



Astrodienst Ephemeris Tables

from the year 2550 for 50 years

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming

Dieter Koch and Alois Treindl

based on Swiss Ephemeris

Code D5EPH

ASTRODIENST EPHEMERIS for the year 2550 geocentric

JANUARY 2550

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|---------|--------|--------|-------|-------|-------|-------|---------|--------|--------|-------|-------|-------|------|-----|
| T 1 | 6 43 6 | 10°23'29 | 22°17 | 4°R58 | 4°A45 | 11°13 | 6°55 | 26°38 | 8°R17 | 13°R27 | 19°R18 | 17°R19 | 17°34 | 22°4 | 10°57 | T 1 | |
| F 2 | 6 47 3 | 11°24'34 | 6°II 2 | 3°345 | 5°58 | 11°39 | 6°58 | 26°15 | 8°16 | 13°II25 | 19°19 | 17°318 | 17°31 | 22°11 | 10°59 | F 2 | |
| S 3 | 6 50 59 | 12°25'38 | 20°12 | 2°40 | 7°11 | 12° 5 | 7° 2 | 26°22 | 8°15 | 13°24 | 19°20 | 17°18 | 17°28 | 22°17 | 11° 2 | S 3 | |
| S 4 | 6 54 56 | 13°26'43 | 4°345 | 1°43 | 8°25 | 12°31 | 7° 6 | 26°29 | 8°14 | 13°23 | 19°20 | 17°18 | 17°25 | 22°24 | 11° 4 | S 4 | |
| M 5 | 6 58 52 | 14°27'48 | 19°33 | 0°57 | 9°38 | 12°56 | 7° 9 | 26°36 | 8°13 | 13°21 | 19°21 | 17°D18 | 17°22 | 22°31 | 11° 7 | M 5 | |
| T 6 | 7 2 49 | 15°28'53 | 4°31 | 0°21 | 10°52 | 13°21 | 7°12 | 26°43 | 8°12 | 13°20 | 19°22 | 17°18 | 17°19 | 22°37 | 11°10 | T 6 | |
| W 7 | 7 6 45 | 16°29'59 | 19°29 | 29°A56 | 12° 5 | 13°46 | 7°15 | 26°50 | 8°10 | 13°18 | 19°23 | 17°18 | 17°15 | 22°44 | 11°12 | W 7 | |
| T 8 | 7 10 42 | 17°31'05 | 4°19 | 29°41 | 13°19 | 14°10 | 7°18 | 26°57 | 8° 9 | 13°17 | 19°24 | 17°R18 | 17°12 | 22°51 | 11°15 | T 8 | |
| F 9 | 7 14 39 | 18°32'11 | 18°56 | 29°D36 | 14°33 | 14°34 | 7°20 | 27° 4 | 8° 8 | 13°16 | 19°25 | 17°18 | 17° 9 | 22°57 | 11°18 | F 9 | |
| S 10 | 7 18 35 | 19°33'18 | 3°14 | 29°40 | 15°47 | 14°58 | 7°22 | 27°11 | 8° 6 | 13°14 | 19°25 | 17°18 | 17° 6 | 23° 4 | 11°21 | S 10 | |
| S 11 | 7 22 32 | 20°34'25 | 17°11 | 29°53 | 17° 0 | 15°22 | 7°25 | 27°18 | 8° 5 | 13°13 | 19°26 | 17°D17 | 17° 3 | 23°11 | 11°23 | S 11 | |
| M12 | 7 26 28 | 21°35'33 | 0°146 | 0°14 | 18°14 | 15°45 | 7°27 | 27°25 | 8° 3 | 13°12 | 19°27 | 17°17 | 16°59 | 23°17 | 11°26 | M12 | |
| T 13 | 7 30 25 | 22°36'41 | 14° 1 | 0°41 | 19°28 | 16° 8 | 7°28 | 27°32 | 8° 2 | 13°11 | 19°28 | 17°18 | 16°56 | 23°24 | 11°29 | T 13 | |
| W14 | 7 34 21 | 23°37'49 | 26°58 | 1°16 | 20°42 | 16°31 | 7°30 | 27°39 | 8° 0 | 13° 9 | 19°29 | 17°18 | 16°53 | 23°31 | 11°32 | W14 | |
| T 15 | 7 38 18 | 24°38'58 | 9°A39 | 1°56 | 21°56 | 16°53 | 7°31 | 27°46 | 7°58 | 13° 8 | 19°30 | 17°19 | 16°50 | 23°37 | 11°35 | T 15 | |
| F 16 | 7 42 14 | 25°40'07 | 22° 7 | 2°41 | 23°10 | 17°15 | 7°33 | 27°53 | 7°57 | 13° 7 | 19°31 | 17°20 | 16°47 | 23°44 | 11°38 | F 16 | |
| S 17 | 7 46 11 | 26°41'15 | 4°322 | 3°30 | 24°24 | 17°37 | 7°34 | 28° 0 | 7°55 | 13° 6 | 19°32 | 17°21 | 16°44 | 23°51 | 11°41 | S 17 | |
| S 18 | 7 50 8 | 27°42'24 | 16°29 | 4°24 | 25°38 | 17°58 | 7°35 | 28° 7 | 7°53 | 13° 5 | 19°34 | 17°R21 | 16°40 | 23°57 | 11°44 | S 18 | |
| M19 | 7 54 4 | 28°43'32 | 28°29 | 5°22 | 26°52 | 18°19 | 7°35 | 28°15 | 7°51 | 13° 4 | 19°35 | 17°21 | 16°37 | 24° 4 | 11°48 | M19 | |
| T 20 | 7 58 1 | 29°44'40 | 10°22 | 6°22 | 28° 6 | 18°40 | 7°36 | 28°22 | 7°50 | 13° 3 | 19°36 | 17°20 | 16°34 | 24°11 | 11°51 | T 20 | |
| W21 | 8 1 57 | 0°45'48 | 22°13 | 7°26 | 29°20 | 19° 0 | 7°36 | 28°29 | 7°48 | 13° 2 | 19°37 | 17°18 | 16°31 | 24°17 | 11°54 | W21 | |
| T 22 | 8 5 54 | 1°46'56 | 4°1 | 8°32 | 0°34 | 19°20 | 7°R36 | 28°36 | 7°46 | 13° 1 | 19°38 | 17°16 | 16°28 | 24°24 | 11°57 | T 22 | |
| F 23 | 8 9 50 | 2°48'02 | 15°51 | 9°41 | 1°48 | 19°40 | 7°36 | 28°43 | 7°44 | 13° 0 | 19°39 | 17°13 | 16°25 | 24°31 | 12° 1 | F 23 | |
| S 24 | 8 13 47 | 3°49'09 | 27°45 | 10°52 | 3° 3 | 19°59 | 7°36 | 28°50 | 7°42 | 12°59 | 19°40 | 17°11 | 16°21 | 24°37 | 12° 4 | S 24 | |
| S 25 | 8 17 43 | 4°50'14 | 9°V45 | 12° 4 | 4°17 | 20°18 | 7°35 | 28°57 | 7°40 | 12°58 | 19°42 | 17° 8 | 16°18 | 24°44 | 12° 7 | S 25 | |
| M26 | 8 21 40 | 5°51'19 | 21°57 | 13°19 | 5°31 | 20°36 | 7°34 | 29° 4 | 7°38 | 12°57 | 19°43 | 17° 7 | 16°15 | 24°51 | 12°11 | M26 | |
| T 27 | 8 25 37 | 6°52'24 | 4°B24 | 14°35 | 6°45 | 20°54 | 7°33 | 29°11 | 7°35 | 12°56 | 19°44 | 17°D 6 | 16°12 | 24°57 | 12°14 | T 27 | |
| W28 | 8 29 33 | 7°53'27 | 17°11 | 15°52 | 7°59 | 21°12 | 7°32 | 29°18 | 7°33 | 12°55 | 19°45 | 17° 7 | 16° 9 | 25° 4 | 12°18 | W28 | |
| T 29 | 8 33 30 | 8°54'30 | 0°II21 | 17°11 | 9°14 | 21°29 | 7°31 | 29°25 | 7°31 | 12°54 | 19°47 | 17° 8 | 16° 5 | 25°11 | 12°21 | T 29 | |
| F 30 | 8 37 26 | 9°55'32 | 13°57 | 18°31 | 10°28 | 21°46 | 7°30 | 29°32 | 7°29 | 12°54 | 19°48 | 17° 9 | 16° 2 | 25°18 | 12°25 | F 30 | |
| S 31 | 8 41 23 | 10°56'33 | 28°II 1 | 19°52 | 11°342 | 22°12 | 7°28 | 29°39 | 7°27 | 12°53 | 19°49 | 17°31 | 15°59 | 25°24 | 12°28 | S 31 | |

Delta T = 17m05s

FEBRUARY 2550

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|---------|-------|-------|--------|-------|--------|-------|---------|--------|--------|--------|--------|-------|------|-----|
| S 1 | 8 45 19 | 11°57'33 | 12°31 | 21°15 | 12°57 | 22°18 | 7°R26 | 29°346 | 7°R24 | 12°R52 | 19°R51 | 17°R11 | 15°356 | 25°331 | 12°32 | S 1 | |
| M 2 | 8 49 16 | 12°58'32 | 27°24 | 22°38 | 14°11 | 22°33 | 7°24 | 29°53 | 7°22 | 12°II51 | 19°52 | 17°311 | 15°53 | 25°38 | 12°35 | M 2 | |
| T 3 | 8 53 13 | 13°59'30 | 12°34 | 24° 2 | 15°25 | 22°48 | 7°22 | 0°50 | 7°20 | 12°51 | 19°53 | 17°10 | 15°50 | 25°44 | 12°39 | T 3 | |
| W 4 | 8 57 9 | 15° 0'28 | 27°50 | 25°27 | 16°40 | 23° 3 | 7°20 | 0° 7 | 7°17 | 12°50 | 19°55 | 17° 7 | 15°46 | 25°51 | 12°43 | W 4 | |
| T 5 | 9 1 6 | 16° 1'24 | 13°12 | 26°53 | 17°54 | 23°16 | 7°17 | 0°14 | 7°15 | 12°50 | 19°56 | 17° 3 | 15°43 | 25°58 | 12°46 | T 5 | |
| F 6 | 9 5 2 | 17° 2'20 | 28° 1 | 28°20 | 19° 8 | 23°30 | 7°14 | 0°21 | 7°13 | 12°49 | 19°57 | 16°58 | 15°40 | 26° 4 | 12°50 | F 6 | |
| S 7 | 9 8 59 | 18° 3'15 | 12°38 | 29°48 | 20°23 | 23°43 | 7°11 | 0°28 | 7°10 | 12°49 | 19°59 | 16°54 | 15°37 | 26°11 | 12°54 | S 7 | |
| S 8 | 9 12 55 | 19° 4'10 | 26°49 | 1°17 | 21°37 | 23°55 | 7° 8 | 0°35 | 7° 8 | 12°48 | 20° 0 | 16°51 | 15°34 | 26°18 | 12°57 | S 8 | |
| M 9 | 9 16 52 | 20° 5'04 | 10°32 | 2°46 | 22°52 | 24° 7 | 7° 5 | 0°42 | 7° 5 | 12°48 | 20° 2 | 16°49 | 15°31 | 26°24 | 13° 1 | M 9 | |
| T 10 | 9 20 48 | 21° 5'57 | 23°48 | 4°16 | 24° 6 | 24°18 | 7° 1 | 0°48 | 7° 3 | 12°47 | 20° 3 | 16°D49 | 15°27 | 26°31 | 13° 5 | T 10 | |
| W11 | 9 24 45 | 22° 6'50 | 6°A40 | 5°47 | 25°21 | 24°29 | 6°58 | 0°55 | 7° 0 | 12°47 | 20° 4 | 16°49 | 15°24 | 26°38 | 13° 9 | W11 | |
| T 12 | 9 28 42 | 23° 7'42 | 19°12 | 7°19 | 26°35 | 24°39 | 6°54 | 1° 2 | 6°58 | 12°46 | 20° 6 | 16°51 | 15°21 | 26°44 | 13°13 | T 12 | |
| F 13 | 9 32 38 | 24° 8'33 | 1°328 | 8°51 | 27°50 | 24°49 | 6°50 | 1° 9 | 6°55 | 12°46 | 20° 7 | 16°53 | 15°18 | 26°51 | 13°16 | F 13 | |
| S 14 | 9 36 35 | 25° 9'24 | 13°32 | 10°24 | 29° 4 | 24°58 | 6°46 | 1°15 | 6°53 | 12°46 | 20° 9 | 16°R54 | 15°15 | 26°58 | 13°20 | S 14 | |
| S 15 | 9 40 31 | 26°10'13 | 25°28 | 11°58 | 0°19 | 25° 6 | 6°41 | 1°22 | 6°50 | 12°46 | 20°10 | 16°53 | 15°11 | 27° 4 | 13°24 | S 15 | |
| M16 | 9 44 28 | 27°11'01 | 7°32 | 13°33 | 1°33 | 25°14 | 6°37 | 1°29 | 6°48 | 12°45 | 20°12 | 16°51 | 15° 8 | 27°11 | 13°28 | M16 | |
| T 17 | 9 48 24 | 28°11'48 | 19° 9 | 15° 8 | 2°48 | 25°21 | 6°32 | 1°35 | 6°45 | 12°45 | 20°13 | 16°47 | 15° 5 | 27°18 | 13°32 | T 17 | |
| W18 | 9 52 21 | 29°12'34 | 0°58 | 16°44 | 4° 2 | 25°27 | 6°27 | 1°42 | 6°42 | 12°45 | 20°15 | 16°40 | 15° 2 | 27°24 | 13°36 | W18 | |
| T 19 | 9 56 17 | 0°13'19 | 12°49 | 18°21 | 5°17 | 25°33 | 6°22 | 1°49 | 6°40 | 12°45 | 20°16 | 16°32 | 14°59 | 27°31 | 13°40 | T 19 | |
| F 20 | 10 0 14 | 1°14'02 | 24°43 | 19°59 | 6°31 | 25°38 | 6°17 | 1°55 | 6°37 | 12°45 | 20°18 | 16°23 | 14°56 | 27°38 | 13°44 | F 20 | |
| S 21 | 10 4 11 | 2°14'44 | 6°V42 | 21°38 | 7°46 | 25°43 | 6°12 | 2° 1 | 6°35 | 12°45 | 20°19 | 16°14 | 14°52 | 27°44 | 13°48 | S 21 | |
| S 22 | 10 8 7 | 3°15'24 | 18°48 | 23°17 | 9° 0 | 25°47 | 6° 6 | 2° 8 | 6°32 | 12°D45 | 20°21 | 16° 6 | 14°49 | 27°51 | 13°52 | S 22 | |
| M23 | 10 12 4 | 4°16'03 | 1°4 | 24°58 | 10°15 | 25°50 | 6° 1 | 2°14 | 6°29 | 12°45 | 20°23 | 15°59 | 14°46 | 27°58 | 13°56 | M23 | |
| T 24 | 10 16 0 | 5°16'40 | 13°32 | 26°39 | 11°29 | 25°52 | 5°55 | 2°21 | 6°27 | 12°45 | 20°24 | 15°54 | 14°43 | 28° 4 | 14° 0 | T 24 | |
| W25 | 10 19 57 | 6°17'15 | 26°15 | 28°21 | 12°44 | 25°54 | 5°49 | 2°27 | 6°24 | 12°45 | 20°26 | 15°52 | 14°40 | 28°11 | 14° 4 | W25 | |
| T 26 | 10 23 53 | 7°17'49 | 9°II 17 | 0°4 | 13°58 | 25°55 | 5°43 | 2°33 | 6°21 | 12°45 | 20°27 | 15°D51 | 14°37 | 28°18 | 14° 8 | T 26 | |
| F 27 | 10 27 50 | 8°18'21 | 22°42 | 1°48 | 15°13 | 25°R55 | 5°37 | 2°39 | 6°19 | 12°45 | 20°29 | 15°52 | 14°33 | 28°25 | 14°11 | F 27 | |
| S 28 | 10 31 46 | 9°18'52 | 6°32 | 3°32 | 16°27 | 25°55 | 5°31 | 2°46 | 6°16 | 12°II46 | 20°30 | 15°53 | 14°30 | 28°31 | 14°15 | S 28 | |

Delta T = 17m05s

ASTRODIENST EPHEMERIS for the year 2550
geocentric

MAY 2550

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|------|-------|------|
| F 1 | 14 36 13 | 10♅51'07 | 22♄57 | 23°R27 | 3♂20 | 8°R55 | 28°R28 | 7♂ 0 | 4°R21 | 13♄58 | 22♁ 2 | 9°R49 | 11♂13 | 5♁26 | 17♁59 | F 1 |
| S 2 | 14 40 9 | 11°49'38 | 7♄23 | 23°Y18 | 4°35 | 8♄42 | 28♁24 | 7° 2 | 4♁20 | 14° 0 | 22° 4 | 9♂40 | 11°10 | 5°33 | 18° 2 | S 2 |
| S 3 | 14 44 6 | 12°48'06 | 21°33 | 23°D14 | 5°49 | 8°29 | 28°20 | 7° 3 | 4°20 | 14° 2 | 22° 5 | 9°32 | 11° 7 | 5°39 | 18° 4 | S 3 |
| M 4 | 14 48 2 | 13°46'33 | 5♁22 | 23°15 | 7° 3 | 8°18 | 28°16 | 7° 4 | 4°19 | 14° 4 | 22° 6 | 9°25 | 11° 4 | 5°46 | 18° 7 | M 4 |
| T 5 | 14 51 59 | 14°44'58 | 18°48 | 23°21 | 8°17 | 8° 7 | 28°12 | 7° 6 | 4°19 | 14° 6 | 22° 7 | 9°21 | 11° 0 | 5°53 | 18° 9 | T 5 |
| W 6 | 14 55 55 | 15°43'21 | 1♂49 | 23°32 | 9°31 | 7°57 | 28° 9 | 7° 7 | 4°19 | 14° 8 | 22° 8 | 9°19 | 10°57 | 5°59 | 18°12 | W 6 |
| T 7 | 14 59 52 | 16°41'43 | 14°28 | 23°47 | 10°45 | 7°48 | 28° 6 | 7° 8 | 4°18 | 14°10 | 22° 9 | 9°D19 | 10°54 | 6° 6 | 18°14 | T 7 |
| F 8 | 15 3 49 | 17°40'03 | 26°48 | 24° 7 | 11°59 | 7°40 | 28° 3 | 7° 9 | 4°18 | 14°12 | 22°10 | 9°20 | 10°51 | 6°13 | 18°17 | F 8 |
| S 9 | 15 7 45 | 18°38'22 | 8♄53 | 24°31 | 13°13 | 7°32 | 28° 0 | 7° 9 | 4°18 | 14°14 | 22°11 | 9°21 | 10°48 | 6°20 | 18°19 | S 9 |
| S 10 | 15 11 42 | 19°36'39 | 20°49 | 25° 0 | 14°27 | 7°25 | 27°57 | 7°10 | 4°18 | 14°17 | 22°12 | 9°R21 | 10°45 | 6°26 | 18°22 | S 10 |
| M 11 | 15 15 38 | 20°34'54 | 2♁40 | 25°33 | 15°41 | 7°19 | 27°54 | 7°11 | 4°18 | 14°19 | 22°13 | 9°20 | 10°41 | 6°33 | 18°24 | M 11 |
| T 12 | 15 19 35 | 21°33'08 | 14°32 | 26°10 | 16°55 | 7°14 | 27°52 | 7°11 | 4°D18 | 14°21 | 22°14 | 9°18 | 10°38 | 6°40 | 18°26 | T 12 |
| W 13 | 15 23 31 | 22°31'21 | 26°29 | 26°51 | 18° 9 | 7°10 | 27°50 | 7°12 | 4°18 | 14°23 | 22°15 | 9°13 | 10°35 | 6°46 | 18°28 | W 13 |
| T 14 | 15 27 28 | 23°29'32 | 8°Y35 | 27°35 | 19°23 | 7° 6 | 27°48 | 7°12 | 4°18 | 14°25 | 22°16 | 9° 7 | 10°32 | 6°53 | 18°31 | T 14 |
| F 15 | 15 31 24 | 24°27'41 | 20°53 | 28°23 | 20°37 | 7° 3 | 27°46 | 7°12 | 4°18 | 14°27 | 22°17 | 8°59 | 10°29 | 7° 0 | 18°33 | F 15 |
| S 16 | 15 35 21 | 25°25'50 | 3♂25 | 29°14 | 21°51 | 7° 1 | 27°44 | 7°12 | 4°18 | 14°29 | 22°18 | 8°51 | 10°25 | 7° 6 | 18°35 | S 16 |
| S 17 | 15 39 18 | 26°23'56 | 16°12 | 0♂ 9 | 23° 5 | 7° 0 | 27°43 | 7°R12 | 4°19 | 14°31 | 22°18 | 8°44 | 10°22 | 7°13 | 18°37 | S 17 |
| M 18 | 15 43 14 | 27°22'01 | 29°14 | 1° 7 | 24°19 | 6°D59 | 27°42 | 7°12 | 4°19 | 14°34 | 22°19 | 8°37 | 10°19 | 7°20 | 18°39 | M 18 |
| T 19 | 15 47 11 | 28°20'05 | 12♄31 | 2° 7 | 25°33 | 7° 0 | 27°41 | 7°12 | 4°19 | 14°36 | 22°20 | 8°33 | 10°16 | 7°27 | 18°41 | T 19 |
| W 20 | 15 51 7 | 29°18'07 | 26° 0 | 3°11 | 26°47 | 7° 1 | 27°40 | 7°12 | 4°20 | 14°38 | 22°21 | 8°30 | 10°13 | 7°33 | 18°43 | W 20 |
| T 21 | 15 55 4 | 0♄16'07 | 9♂40 | 4°18 | 28° 1 | 7° 2 | 27°39 | 7°11 | 4°20 | 14°40 | 22°22 | 8°D30 | 10°10 | 7°40 | 18°44 | T 21 |
| F 22 | 15 59 0 | 1°14'05 | 23°30 | 5°27 | 29°15 | 7° 5 | 27°38 | 7°11 | 4°21 | 14°42 | 22°22 | 8°30 | 10° 6 | 7°47 | 18°46 | F 22 |
| S 23 | 16 2 57 | 2°12'02 | 7♄28 | 6°39 | 0♄29 | 7° 8 | 27°38 | 7°10 | 4°21 | 14°44 | 22°23 | 8°32 | 10° 3 | 7°53 | 18°48 | S 23 |
| S 24 | 16 6 54 | 3° 9'57 | 21°33 | 7°53 | 1°42 | 7°12 | 27°38 | 7°10 | 4°22 | 14°47 | 22°24 | 8°33 | 10° 0 | 8° 0 | 18°50 | S 24 |
| M 25 | 16 10 50 | 4° 7'50 | 5♁43 | 9°10 | 2°56 | 7°17 | 27°D38 | 7° 9 | 4°23 | 14°49 | 22°24 | 8°R34 | 9°57 | 8° 7 | 18°51 | M 25 |
| T 26 | 16 14 47 | 5° 5'41 | 19°56 | 10°30 | 4°10 | 7°22 | 27°38 | 7° 8 | 4°23 | 14°51 | 22°25 | 8°33 | 9°54 | 8°13 | 18°53 | T 26 |
| W 27 | 16 18 43 | 6° 3'30 | 4♄11 | 11°51 | 5°24 | 7°28 | 27°38 | 7° 7 | 4°24 | 14°53 | 22°26 | 8°30 | 9°51 | 8°20 | 18°54 | W 27 |
| T 28 | 16 22 40 | 7° 1'18 | 18°24 | 13°16 | 6°38 | 7°35 | 27°39 | 7° 6 | 4°25 | 14°56 | 22°26 | 8°27 | 9°47 | 8°27 | 18°56 | T 28 |
| F 29 | 16 26 36 | 7°59'04 | 2♄32 | 14°42 | 7°52 | 7°42 | 27°40 | 7° 5 | 4°26 | 14°58 | 22°27 | 8°22 | 9°44 | 8°34 | 18°57 | F 29 |
| S 30 | 16 30 33 | 8°56'49 | 16°30 | 16°12 | 9° 6 | 7°50 | 27°40 | 7° 4 | 4°27 | 15° 0 | 22°27 | 8°18 | 9°41 | 8°40 | 18°58 | S 30 |
| S 31 | 16 34 29 | 9♄54'32 | 0♄15 | 17♄43 | 10♄19 | 7♄59 | 27♁42 | 7♄ 2 | 4♁28 | 15♄ 2 | 22♁28 | 8♂14 | 9♂38 | 8♁47 | 19♁ 0 | S 31 |

Delta T = 17m06s

JUNE 2550

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|------|-------|--------|-------|------|-------|--------|------|
| M 1 | 16 38 26 | 10♄52'14 | 13♁44 | 19♄17 | 11♄33 | 8♄ 8 | 27♁43 | 7°R 1 | 4♁29 | 15♄ 5 | 22♁29 | 8°R11 | 9♂35 | 8♁54 | 19♁ 1 | M 1 |
| T 2 | 16 42 23 | 11°49'55 | 26°54 | 20°53 | 12°47 | 8°18 | 27°44 | 6♄59 | 4°30 | 15° 7 | 22°29 | 8♂ 9 | 9°31 | 9° 0 | 19° 2 | T 2 |
| W 3 | 16 46 19 | 12°47'34 | 9♂46 | 22°31 | 14° 1 | 8°29 | 27°46 | 6°58 | 4°31 | 15° 9 | 22°30 | 8°D 9 | 9°28 | 9° 7 | 19° 3 | W 3 |
| T 4 | 16 50 16 | 13°45'13 | 22°20 | 24°12 | 15°15 | 8°40 | 27°48 | 6°56 | 4°32 | 15°11 | 22°30 | 8°10 | 9°25 | 9°14 | 19° 4 | T 4 |
| F 5 | 16 54 12 | 14°42'50 | 4♄39 | 25°54 | 16°28 | 8°52 | 27°50 | 6°54 | 4°34 | 15°14 | 22°30 | 8°11 | 9°22 | 9°20 | 19° 5 | F 5 |
| S 6 | 16 58 9 | 15°40'26 | 16°45 | 27°40 | 17°42 | 9° 4 | 27°52 | 6°52 | 4°35 | 15°16 | 22°31 | 8°13 | 9°19 | 9°27 | 19° 6 | S 6 |
| S 7 | 17 2 5 | 16°38'02 | 28°42 | 29°27 | 18°56 | 9°17 | 27°54 | 6°51 | 4°36 | 15°18 | 22°31 | 8°14 | 9°16 | 9°34 | 19° 7 | S 7 |
| M 8 | 17 6 2 | 17°35'36 | 10♁34 | 1♄17 | 20°10 | 9°30 | 27°57 | 6°48 | 4°38 | 15°20 | 22°32 | 8°15 | 9°12 | 9°41 | 19° 8 | M 8 |
| T 9 | 17 9 58 | 18°33'10 | 22°28 | 3° 9 | 21°24 | 9°44 | 27°59 | 6°46 | 4°39 | 15°23 | 22°32 | 8°R15 | 9° 9 | 9°47 | 19° 9 | T 9 |
| W 10 | 17 13 55 | 19°30'42 | 4°Y26 | 5° 3 | 22°37 | 9°59 | 28° 2 | 6°44 | 4°41 | 15°25 | 22°32 | 8°14 | 9° 6 | 9°54 | 19°10 | W 10 |
| T 11 | 17 17 52 | 20°28'14 | 16°34 | 7° 0 | 23°51 | 10°14 | 28° 5 | 6°42 | 4°42 | 15°27 | 22°32 | 8°13 | 9° 3 | 10° 1 | 19°10 | T 11 |
| F 12 | 17 21 48 | 21°25'45 | 28°55 | 8°58 | 25° 5 | 10°29 | 28° 8 | 6°39 | 4°44 | 15°29 | 22°33 | 8°11 | 9° 0 | 10° 7 | 19°11 | F 12 |
| S 13 | 17 25 45 | 22°23'16 | 11♄33 | 10°59 | 26°19 | 10°45 | 28°12 | 6°37 | 4°45 | 15°31 | 22°33 | 8° 9 | 8°57 | 10°14 | 19°11 | S 13 |
| S 14 | 17 29 41 | 23°20'46 | 24°30 | 13° 1 | 27°32 | 11° 2 | 28°15 | 6°34 | 4°47 | 15°34 | 22°33 | 8° 6 | 8°53 | 10°21 | 19°12 | S 14 |
| M 15 | 17 33 38 | 24°18'15 | 7♄47 | 15° 6 | 28°46 | 11°19 | 28°19 | 6°32 | 4°49 | 15°36 | 22°33 | 8° 5 | 8°50 | 10°28 | 19°12 | M 15 |
| T 16 | 17 37 34 | 25°15'43 | 21°23 | 17°12 | 29°59 | 11°36 | 28°23 | 6°29 | 4°51 | 15°38 | 22°34 | 8° 4 | 8°47 | 10°34 | 19°13 | T 16 |
| W 17 | 17 41 31 | 26°13'10 | 5♄15 | 19°19 | 1♄14 | 11°54 | 28°26 | 6°26 | 4°53 | 15°40 | 22°34 | 8°D 3 | 8°44 | 10°41 | 19°13 | W 17 |
| T 18 | 17 45 27 | 27°10'37 | 19°22 | 21°28 | 2°27 | 12°12 | 28°31 | 6°24 | 4°54 | 15°43 | 22°34 | 8° 3 | 8°41 | 10°48 | 19°13 | T 18 |
| F 19 | 17 49 24 | 28° 8'02 | 3♄38 | 23°39 | 3°41 | 12°31 | 28°35 | 6°21 | 4°56 | 15°45 | 22°34 | 8° 4 | 8°37 | 10°54 | 19°13 | F 19 |
| S 20 | 17 53 21 | 29° 5'27 | 18° 0 | 25°50 | 4°55 | 12°51 | 28°39 | 6°18 | 4°58 | 15°47 | 22°34 | 8° 5 | 8°34 | 11° 1 | 19°14 | S 20 |
| S 21 | 17 57 17 | 0♄ 2'50 | 2♁23 | 28° 1 | 6° 9 | 13°10 | 28°44 | 6°15 | 5° 0 | 15°49 | 22°34 | 8° 5 | 8°31 | 11° 8 | 19°14 | S 21 |
| M 22 | 18 1 14 | 1° 0'12 | 16°44 | 0♄13 | 7°22 | 13°31 | 28°49 | 6°11 | 5° 2 | 15°51 | 22°R34 | 8° 6 | 8°28 | 11°14 | 19°R14 | M 22 |
| T 23 | 18 5 10 | 1°57'34 | 0♄59 | 2°25 | 8°36 | 13°51 | 28°54 | 6° 8 | 5° 5 | 15°54 | 22°34 | 8°R 6 | 8°25 | 11°21 | 19°14 | T 23 |
| W 24 | 18 9 7 | 2°54'54 | 15° 5 | 4°37 | 9°50 | 14°12 | 28°59 | 6° 5 | 5° 7 | 15°56 | 22°34 | 8° 6 | 8°22 | 11°28 | 19°14 | W 24 |
| T 25 | 18 13 3 | 3°52'14 | 29° 1 | 6°49 | 11° 4 | 14°34 | 29° 4 | 6° 2 | 5° 9 | 15°58 | 22°34 | 8° 6 | 8°18 | 11°35 | 19°14 | T 25 |
| F 26 | 18 17 0 | 4°49'32 | 12♄46 | 8°59 | 12°17 | 14°56 | 29° 9 | 5°58 | 5°11 | 16° 0 | 22°34 | 8° 5 | 8°15 | 11°41 | 19°13 | F 26 |
| S 27 | 18 20 56 | 5°46'50 | 26°18 | 11° 9 | 13°31 | 15°18 | 29°15 | 5°55 | 5°13 | 16° 2 | 22°34 | 8° 5 | 8°12 | 11°48 | 19°13 | S 27 |
| S 28 | 18 24 53 | 6°44'07 | 9♁36 | 13°18 | 14°45 | 15°40 | 29°21 | 5°51 | 5°16 | 16° 4 | 22°34 | 8° 5 | 8° 9 | 11°55 | 19°13 | S 28 |
| M 29 | 18 28 50 | 7°41'24 | 22°41 | 15°25 | 15°58 | 16° 3 | 29°26 | 5°48 | 5°18 | 16° 7 | 22°34 | 8°D 5 | 8° 6 | 12° 1 | 19°12 | M 29 |
| T 30 | 18 32 46 | 8♄38'40 | 5♂32 | 17♄31 | 17♄12 | 16♄27 | 29♁32 | 5♄44 | 5♁21 | 16♄ 9 | 22♁33 | 8°R 5 | 8♂ 3 | 12♁ 8 | 19♁12 | T 30 |

Delta T = 17m07s

ASTRODIENST EPHEMERIS for the year 2550

geocentric

SEPTEMBER 2550

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♄ | ♃ | ♆ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|--------|--------|-------|------|-------|--------|------|
| T 1 | 22 41 9 | 8♍54'10 | 17♍36 | 0°R16 | 4♋22 | 19♍32 | 9♂29 | 1°R29 | 8♍49 | 17♎42 | 21°R44 | 5°R47 | 4♋42 | 19♎11 | 17°R12 | T 1 |
| W 2 | 22 45 6 | 9°51'59 | 29°35 | 29♎45 | 5°35 | 20° 9 | 9°41 | 1♋26 | 8°53 | 17°43 | 21♎43 | 5♋38 | 4°39 | 19°18 | 17♎9 | W 2 |
| T 3 | 22 49 2 | 10°49'51 | 11♎41 | 29°20 | 6°48 | 20°47 | 9°53 | 1°23 | 8°56 | 17°44 | 21°41 | 5°32 | 4°36 | 19°25 | 17° 6 | T 3 |
| F 4 | 22 52 59 | 11°47'44 | 23°58 | 29° 3 | 8° 1 | 21°24 | 10° 5 | 1°20 | 9° 0 | 17°44 | 21°40 | 5°28 | 4°33 | 19°31 | 17° 3 | F 4 |
| S 5 | 22 56 55 | 12°45'38 | 6♐30 | 28°53 | 9°14 | 22° 2 | 10°17 | 1°17 | 9° 4 | 17°45 | 21°39 | 5°27 | 4°30 | 19°38 | 17° 0 | S 5 |
| S 6 | 23 0 52 | 13°43'35 | 19°21 | 28°D51 | 10°27 | 22°40 | 10°29 | 1°15 | 9° 8 | 17°45 | 21°38 | 5°D27 | 4°26 | 19°45 | 16°57 | S 6 |
| M 7 | 23 4 48 | 14°41'33 | 2♋35 | 28°57 | 11°40 | 23°18 | 10°41 | 1°12 | 9°11 | 17°46 | 21°36 | 5°R27 | 4°23 | 19°51 | 16°54 | M 7 |
| T 8 | 23 8 45 | 15°39'33 | 16°16 | 29°12 | 12°53 | 23°57 | 10°54 | 1°10 | 9°15 | 17°46 | 21°35 | 5°27 | 4°20 | 19°58 | 16°51 | T 8 |
| W 9 | 23 12 42 | 16°37'36 | 0♑26 | 29°35 | 14° 6 | 24°35 | 11° 6 | 1° 7 | 9°19 | 17°47 | 21°34 | 5°25 | 4°17 | 20° 5 | 16°48 | W 9 |
| T 10 | 23 16 38 | 17°35'39 | 15° 3 | 0♍ 6 | 15°19 | 25°14 | 11°18 | 1° 5 | 9°23 | 17°47 | 21°33 | 5°20 | 4°14 | 20°12 | 16°46 | T 10 |
| F 11 | 23 20 35 | 18°33'45 | 0♍ 3 | 0°45 | 16°32 | 25°52 | 11°31 | 1° 2 | 9°26 | 17°47 | 21°31 | 5°13 | 4°11 | 20°18 | 16°43 | F 11 |
| S 12 | 23 24 31 | 19°31'52 | 15°18 | 1°32 | 17°45 | 26°31 | 11°43 | 1° 0 | 9°30 | 17°48 | 21°30 | 5° 3 | 4° 7 | 20°25 | 16°40 | S 12 |
| S 13 | 23 28 28 | 20°30'01 | 0♋37 | 2°26 | 18°58 | 27°10 | 11°55 | 0°58 | 9°34 | 17°48 | 21°29 | 4°53 | 4° 4 | 20°32 | 16°37 | S 13 |
| M14 | 23 32 24 | 21°28'12 | 15°50 | 3°28 | 20°11 | 27°49 | 12° 8 | 0°56 | 9°37 | 17°48 | 21°28 | 4°43 | 4° 1 | 20°38 | 16°34 | M14 |
| T 15 | 23 36 21 | 22°26'24 | 0♌45 | 4°36 | 21°24 | 28°28 | 12°20 | 0°54 | 9°41 | 17°48 | 21°26 | 4°34 | 3°58 | 20°45 | 16°31 | T 15 |
| W16 | 23 40 17 | 23°24'37 | 15°15 | 5°51 | 22°37 | 29° 8 | 12°33 | 0°52 | 9°45 | 17°48 | 21°25 | 4°27 | 3°55 | 20°52 | 16°28 | W16 |
| T 17 | 23 44 14 | 24°22'52 | 29°16 | 7°12 | 23°50 | 29°47 | 12°46 | 0°51 | 9°49 | 17°49 | 21°24 | 4°23 | 3°52 | 20°59 | 16°25 | T 17 |
| F 18 | 23 48 11 | 25°21'09 | 12♌49 | 8°38 | 25° 3 | 0♌27 | 12°58 | 0°49 | 9°52 | 17°49 | 21°23 | 4°21 | 3°48 | 21° 5 | 16°22 | F 18 |
| S 19 | 23 52 7 | 26°19'27 | 25°54 | 10° 9 | 26°16 | 1° 6 | 13°11 | 0°47 | 9°56 | 17°49 | 21°21 | 4°20 | 3°45 | 21°12 | 16°20 | S 19 |
| S 20 | 23 56 4 | 27°17'47 | 8♎36 | 11°44 | 27°28 | 1°46 | 13°23 | 0°46 | 9°59 | 17°49 | 21°20 | 4°20 | 3°42 | 21°19 | 16°17 | S 20 |
| M21 | 0 0 0 | 28°16'08 | 21° 0 | 13°23 | 28°41 | 2°26 | 13°36 | 0°44 | 10° 3 | 17°R49 | 21°19 | 4°19 | 3°39 | 21°26 | 16°14 | M21 |
| T 22 | 0 3 57 | 29°14'31 | 3♌10 | 15° 5 | 29°54 | 3° 6 | 13°49 | 0°43 | 10° 7 | 17°49 | 21°18 | 4°17 | 3°36 | 21°32 | 16°11 | T 22 |
| W23 | 0 7 53 | 0♌12'55 | 15°11 | 16°49 | 1♌ 7 | 3°46 | 14° 2 | 0°42 | 10°10 | 17°49 | 21°16 | 4°12 | 3°32 | 21°39 | 16° 8 | W23 |
| T 24 | 0 11 50 | 1°11'21 | 27° 6 | 18°36 | 2°19 | 4°27 | 14°14 | 0°41 | 10°14 | 17°49 | 21°15 | 4° 4 | 3°29 | 21°46 | 16° 6 | T 24 |
| F 25 | 0 15 46 | 2° 9'48 | 8♎58 | 20°24 | 3°32 | 5° 7 | 14°27 | 0°40 | 10°17 | 17°48 | 21°14 | 3°53 | 3°26 | 21°52 | 16° 3 | F 25 |
| S 26 | 0 19 43 | 3° 8'17 | 20°50 | 22°14 | 4°45 | 5°47 | 14°40 | 0°39 | 10°21 | 17°48 | 21°13 | 3°40 | 3°23 | 21°59 | 16° 0 | S 26 |
| S 27 | 0 23 40 | 4° 6'48 | 2♎44 | 24° 5 | 5°57 | 6°28 | 14°53 | 0°38 | 10°25 | 17°48 | 21°12 | 3°26 | 3°20 | 22° 6 | 15°57 | S 27 |
| M28 | 0 27 36 | 5° 5'21 | 14°40 | 25°56 | 7°10 | 7° 9 | 15° 6 | 0°37 | 10°28 | 17°48 | 21°10 | 3°11 | 3°17 | 22°13 | 15°55 | M28 |
| T 29 | 0 31 33 | 6° 3'56 | 26°40 | 27°47 | 8°22 | 7°50 | 15°18 | 0°37 | 10°32 | 17°48 | 21° 9 | 2°58 | 3°13 | 22°19 | 15°52 | T 29 |
| W30 | 0 35 29 | 7♌2'33 | 8♎45 | 29♍39 | 9♌35 | 8♌30 | 15♌31 | 0♌36 | 10♍35 | 17♎47 | 21♎8 | 2♎47 | 3♎10 | 22♎26 | 15♎49 | W30 |

Delta T = 17m07s

OCTOBER 2550

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♄ | ♃ | ♆ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|------|-------|--------|------|
| T 1 | 0 39 26 | 8♌1'12 | 20♎58 | 1♌31 | 10♌47 | 9♌11 | 15♌44 | 0°R36 | 10♍38 | 17°R47 | 21°R 7 | 2°R39 | 3♎7 | 22♎33 | 15°R47 | T 1 |
| F 2 | 0 43 22 | 8°59'53 | 3♐20 | 3°22 | 12° 0 | 9°53 | 15°57 | 0°35 | 10°42 | 17♎47 | 21♎ 6 | 2♎34 | 3° 4 | 22°39 | 15♎44 | F 2 |
| S 3 | 0 47 19 | 9°58'36 | 15°55 | 5°13 | 13°12 | 10°34 | 16°10 | 0°35 | 10°45 | 17°46 | 21° 4 | 2°31 | 3° 1 | 22°46 | 15°41 | S 3 |
| S 4 | 0 51 15 | 10°57'22 | 28°45 | 7° 4 | 14°25 | 11°15 | 16°23 | 0°35 | 10°49 | 17°46 | 21° 3 | 2°D30 | 2°58 | 22°53 | 15°39 | S 4 |
| M 5 | 0 55 12 | 11°56'10 | 11♎55 | 8°53 | 15°37 | 11°57 | 16°36 | 0°D35 | 10°52 | 17°45 | 21° 2 | 2°R30 | 2°54 | 23° 0 | 15°36 | M 5 |
| T 6 | 0 59 9 | 12°55'00 | 25°29 | 10°42 | 16°50 | 12°38 | 16°49 | 0°35 | 10°55 | 17°45 | 21° 1 | 2°30 | 2°51 | 23° 6 | 15°34 | T 6 |
| W 7 | 1 3 5 | 13°53'52 | 9♑27 | 12°31 | 18° 2 | 13°20 | 17° 2 | 0°35 | 10°59 | 17°44 | 21° 0 | 2°28 | 2°48 | 23°13 | 15°31 | W 7 |
| T 8 | 1 7 2 | 14°52'47 | 23°51 | 14°19 | 19°14 | 14° 1 | 17°15 | 0°35 | 11° 2 | 17°44 | 20°59 | 2°23 | 2°45 | 23°20 | 15°29 | T 8 |
| F 9 | 1 10 58 | 15°51'43 | 8♍39 | 16° 5 | 20°27 | 14°43 | 17°28 | 0°36 | 11° 5 | 17°43 | 20°58 | 2°16 | 2°42 | 23°26 | 15°27 | F 9 |
| S 10 | 1 14 55 | 16°50'42 | 23°43 | 17°51 | 21°39 | 15°25 | 17°41 | 0°36 | 11° 8 | 17°43 | 20°57 | 2° 7 | 2°38 | 23°33 | 15°24 | S 10 |
| S 11 | 1 18 51 | 17°49'43 | 8♌56 | 19°37 | 22°51 | 16° 7 | 17°54 | 0°37 | 11°12 | 17°42 | 20°55 | 1°56 | 2°35 | 23°40 | 15°22 | S 11 |
| M12 | 1 22 48 | 18°48'46 | 24° 6 | 21°21 | 24° 3 | 16°49 | 18° 6 | 0°37 | 11°15 | 17°41 | 20°54 | 1°46 | 2°32 | 23°47 | 15°20 | M12 |
| T 13 | 1 26 44 | 19°47'51 | 9♌ 4 | 23° 4 | 25°16 | 17°32 | 18°19 | 0°38 | 11°18 | 17°41 | 20°53 | 1°36 | 2°29 | 23°53 | 15°17 | T 13 |
| W14 | 1 30 41 | 20°46'58 | 23°39 | 24°47 | 26°28 | 18°14 | 18°32 | 0°39 | 11°21 | 17°40 | 20°52 | 1°29 | 2°26 | 24° 0 | 15°15 | W14 |
| T 15 | 1 34 37 | 21°46'07 | 7♌47 | 26°29 | 27°40 | 18°56 | 18°45 | 0°40 | 11°24 | 17°39 | 20°51 | 1°25 | 2°23 | 24° 7 | 15°13 | T 15 |
| F 16 | 1 38 34 | 22°45'18 | 21°26 | 28°10 | 28°52 | 19°39 | 18°58 | 0°41 | 11°27 | 17°38 | 20°50 | 1°22 | 2°19 | 24°14 | 15°11 | F 16 |
| S 17 | 1 42 31 | 23°44'30 | 4♎37 | 29°50 | 0♌ 4 | 20°22 | 19°11 | 0°42 | 11°30 | 17°37 | 20°49 | 1°D22 | 2°16 | 24°20 | 15° 9 | S 17 |
| S 18 | 1 46 27 | 24°43'45 | 17°22 | 1♌30 | 1°16 | 21° 4 | 19°24 | 0°43 | 11°33 | 17°37 | 20°48 | 1°23 | 2°13 | 24°27 | 15° 7 | S 18 |
| M19 | 1 50 24 | 25°43'00 | 29°48 | 3° 8 | 2°28 | 21°47 | 19°37 | 0°45 | 11°36 | 17°36 | 20°47 | 1°R23 | 2°10 | 24°34 | 15° 5 | M19 |
| T 20 | 1 54 20 | 26°42'18 | 11♌57 | 4°46 | 3°40 | 22°30 | 19°50 | 0°46 | 11°39 | 17°35 | 20°46 | 1°21 | 2° 7 | 24°40 | 15° 3 | T 20 |
| W21 | 1 58 17 | 27°41'37 | 23°56 | 6°24 | 4°52 | 23°13 | 20° 3 | 0°48 | 11°42 | 17°34 | 20°45 | 1°18 | 2° 3 | 24°47 | 15° 1 | W21 |
| T 22 | 2 2 13 | 28°40'58 | 5♎50 | 8° 0 | 6° 4 | 23°56 | 20°16 | 0°49 | 11°45 | 17°33 | 20°44 | 1°12 | 2° 0 | 24°54 | 14°59 | T 22 |
| F 23 | 2 6 10 | 29°40'21 | 17°41 | 9°36 | 7°16 | 24°39 | 20°29 | 0°51 | 11°48 | 17°32 | 20°43 | 1° 4 | 1°57 | 25° 1 | 14°57 | F 23 |
| S 24 | 2 10 6 | 0♌39'46 | 29°34 | 11°11 | 8°27 | 25°23 | 20°42 | 0°53 | 11°51 | 17°31 | 20°42 | 0°53 | 1°54 | 25° 7 | 14°55 | S 24 |
| S 25 | 2 14 3 | 1°39'12 | 11♎30 | 12°45 | 9°39 | 26° 6 | 20°55 | 0°55 | 11°53 | 17°30 | 20°42 | 0°42 | 1°51 | 25°14 | 14°54 | S 25 |
| M26 | 2 18 0 | 2°38'41 | 23°32 | 14°19 | 10°51 | 26°49 | 21° 7 | 0°57 | 11°56 | 17°29 | 20°41 | 0°31 | 1°48 | 25°21 | 14°52 | M26 |
| T 27 | 2 21 56 | 3°38'11 | 5♎42 | 15°52 | 12° 2 | 27°33 | 21°20 | 0°59 | 11°59 | 17°28 | 20°40 | 0°20 | 1°44 | 25°27 | 14°50 | T 27 |
| W28 | 2 25 53 | 4°37'44 | 17°59 | 17°25 | 13°14 | 28°16 | 21°33 | 1° 1 | 12° 1 | 17°26 | 20°39 | 0°11 | 1°41 | 25°34 | 14°49 | W28 |
| T 29 | 2 29 49 | 5°37'19 | 0♐24 | 18°57 | 14°26 | 29° 0 | 21°46 | 1° 4 | 12° 4 | 17°25 | 20°38 | 0° 5 | 1°38 | 25°41 | 14°47 | T 29 |
| F 30 | 2 33 46 | 6°36'55 | 13° 0 | 20°28 | 15°37 | 29°44 | 21°59 | 1° 6 | 12° 7 | 17°24 | 20°37 | 0° 1 | 1°35 | 25°48 | 14°46 | F 30 |
| S 31 | 2 37 42 | 7♌36'34 | 25♐47 | 21♍59 | 16♌49 | 0♎27 | 22♌11 | 1♌ 9 | 12♍ 9 | 17♎23 | 20♎37 | 29°D59 | 1♎32 | 25♎54 | 14♎44 | S 31 |

Delta T = 17m08s

ASTRODIENST EPHEMERIS for the year 2550
geocentric

NOVEMBER 2550

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♁ | ♂ | ♄ | ♃ | ♅ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|--------|--------|--------|-------|-------|--------|------|
| S 1 | 2 41 39 | 8♑36°15 | 8♄47 | 23♏29 | 18♌0 | 1♈11 | 22♌24 | 1♏11 | 12♏12 | 17°R22 | 20°R36 | 29♌59 | 1♏29 | 26♄1 | 14°R43 | S 1 |
| M 2 | 2 45 35 | 9°35'58 | 22° 2 | 24°58 | 19°11 | 1°55 | 22°37 | 1°14 | 12°14 | 17♎20 | 20♋35 | 0♈1 | 1°25 | 26° 8 | 14♋42 | M 2 |
| T 3 | 2 49 32 | 10°35'44 | 5♌34 | 26°27 | 20°23 | 2°39 | 22°49 | 1°17 | 12°16 | 17°19 | 20°34 | 0°R 2 | 1°22 | 26°15 | 14°40 | T 3 |
| W 4 | 2 53 29 | 11°35'32 | 19°25 | 27°56 | 21°34 | 3°23 | 23° 2 | 1°19 | 12°19 | 17°18 | 20°34 | 0° 1 | 1°19 | 26°21 | 14°39 | W 4 |
| T 5 | 2 57 25 | 12°35'22 | 3♎36 | 29°23 | 22°45 | 4° 8 | 23°15 | 1°22 | 12°21 | 17°17 | 20°33 | 29♌59 | 1°16 | 26°28 | 14°38 | T 5 |
| F 6 | 3 1 22 | 13°35'14 | 18° 4 | 0♌50 | 23°56 | 4°52 | 23°27 | 1°25 | 12°23 | 17°15 | 20°32 | 29°56 | 1°13 | 26°35 | 14°37 | F 6 |
| S 7 | 3 5 18 | 14°35'08 | 2♌47 | 2°17 | 25° 7 | 5°36 | 23°40 | 1°29 | 12°26 | 17°14 | 20°32 | 29°50 | 1° 9 | 26°41 | 14°36 | S 7 |
| S 8 | 3 9 15 | 15°35'04 | 17°38 | 3°43 | 26°18 | 6°21 | 23°52 | 1°32 | 12°28 | 17°12 | 20°31 | 29°43 | 1° 6 | 26°48 | 14°35 | S 8 |
| M 9 | 3 13 11 | 16°35'03 | 2♎29 | 5° 8 | 27°29 | 7° 5 | 24° 5 | 1°35 | 12°30 | 17°11 | 20°30 | 29°36 | 1° 3 | 26°55 | 14°34 | M 9 |
| T 10 | 3 17 8 | 17°35'03 | 17°12 | 6°32 | 28°40 | 7°50 | 24°17 | 1°38 | 12°32 | 17°10 | 20°30 | 29°30 | 1° 0 | 27° 2 | 14°33 | T 10 |
| W 11 | 3 21 4 | 18°35'05 | 1♌39 | 7°56 | 29°51 | 8°34 | 24°30 | 1°42 | 12°34 | 17° 8 | 20°29 | 29°25 | 0°57 | 27° 8 | 14°32 | W 11 |
| T 12 | 3 25 1 | 19°35'10 | 15°44 | 9°18 | 1♈2 | 9°19 | 24°42 | 1°46 | 12°36 | 17° 7 | 20°29 | 29°23 | 0°54 | 27°15 | 14°31 | T 12 |
| F 13 | 3 28 58 | 20°35'16 | 29°24 | 10°40 | 2°13 | 10° 4 | 24°54 | 1°49 | 12°38 | 17° 5 | 20°28 | 29°D22 | 0°50 | 27°22 | 14°31 | F 13 |
| S 14 | 3 32 54 | 21°35'23 | 12♉39 | 12° 1 | 3°24 | 10°49 | 25° 7 | 1°53 | 12°40 | 17° 4 | 20°28 | 29°22 | 0°47 | 27°28 | 14°30 | S 14 |
| S 15 | 3 36 51 | 22°35'32 | 25°29 | 13°21 | 4°34 | 11°34 | 25°19 | 1°57 | 12°42 | 17° 2 | 20°27 | 29°24 | 0°44 | 27°35 | 14°29 | S 15 |
| M 16 | 3 40 47 | 23°35'43 | 7♏58 | 14°39 | 5°45 | 12°19 | 25°31 | 2° 1 | 12°43 | 17° 1 | 20°27 | 29°26 | 0°41 | 27°42 | 14°29 | M 16 |
| T 17 | 3 44 44 | 24°35'55 | 20°11 | 15°56 | 6°55 | 13° 4 | 25°43 | 2° 5 | 12°45 | 16°59 | 20°26 | 29°R27 | 0°38 | 27°49 | 14°28 | T 17 |
| W 18 | 3 48 40 | 25°36'08 | 2♂12 | 17°12 | 8° 6 | 13°49 | 25°55 | 2° 9 | 12°47 | 16°58 | 20°26 | 29°26 | 0°35 | 27°55 | 14°28 | W 18 |
| T 19 | 3 52 37 | 26°36'23 | 14° 6 | 18°26 | 9°16 | 14°34 | 26° 7 | 2°13 | 12°49 | 16°56 | 20°25 | 29°25 | 0°31 | 28° 2 | 14°27 | T 19 |
| F 20 | 3 56 33 | 27°36'39 | 25°58 | 19°39 | 10°26 | 15°19 | 26°19 | 2°17 | 12°50 | 16°55 | 20°25 | 29°22 | 0°28 | 28° 9 | 14°27 | F 20 |
| S 21 | 4 0 30 | 28°36'57 | 7♐52 | 20°49 | 11°36 | 16° 5 | 26°31 | 2°21 | 12°52 | 16°53 | 20°25 | 29°17 | 0°25 | 28°16 | 14°27 | S 21 |
| S 22 | 4 4 27 | 29°37'16 | 19°52 | 21°57 | 12°46 | 16°50 | 26°43 | 2°26 | 12°53 | 16°51 | 20°24 | 29°12 | 0°22 | 28°22 | 14°27 | S 22 |
| M 23 | 4 8 23 | 0♌37°37 | 2♁0 | 23° 3 | 13°56 | 17°35 | 26°55 | 2°30 | 12°55 | 16°50 | 20°24 | 29° 7 | 0°19 | 28°29 | 14°27 | M 23 |
| T 24 | 4 12 20 | 1°37'59 | 14°19 | 24° 6 | 15° 6 | 18°21 | 27° 7 | 2°35 | 12°56 | 16°48 | 20°24 | 29° 2 | 0°15 | 28°36 | 14°27 | T 24 |
| W 25 | 4 16 16 | 2°38'23 | 26°50 | 25° 5 | 16°16 | 19° 6 | 27°18 | 2°39 | 12°57 | 16°47 | 20°24 | 28°58 | 0°12 | 28°42 | 14°D26 | W 25 |
| T 26 | 4 20 13 | 3°38'48 | 9♎33 | 26° 1 | 17°25 | 19°52 | 27°30 | 2°44 | 12°59 | 16°45 | 20°23 | 28°56 | 0° 9 | 28°49 | 14°27 | T 26 |
| F 27 | 4 24 9 | 4°39'15 | 22°29 | 26°53 | 18°35 | 20°38 | 27°42 | 2°49 | 13° 0 | 16°43 | 20°23 | 28°D54 | 0° 6 | 28°56 | 14°27 | F 27 |
| S 28 | 4 28 6 | 5°39'44 | 5♄37 | 27°40 | 19°44 | 21°23 | 27°53 | 2°54 | 13° 1 | 16°42 | 20°23 | 28°54 | 0° 3 | 29° 3 | 14°27 | S 28 |
| S 29 | 4 32 2 | 6°40'14 | 18°58 | 28°21 | 20°53 | 22° 9 | 28° 5 | 2°58 | 13° 2 | 16°40 | 20°23 | 28°55 | 29♌59 | 29° 9 | 14°27 | S 29 |
| M 30 | 4 35 59 | 7♌40'46 | 2♑30 | 28♌57 | 22♈2 | 22♈55 | 28♄16 | 3♏3 | 13♏3 | 16♎38 | 20♋23 | 28♌57 | 29♌56 | 29♄16 | 14♄27 | M 30 |

Delta T = 17m08s

DECEMBER 2550

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♁ | ♂ | ♄ | ♃ | ♅ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|------|--------|--------|--------|--------|-------|-------|-------|------|
| T 1 | 4 39 56 | 8♌41'20 | 16♑14 | 29♌27 | 23♎11 | 23♎41 | 28♄27 | 3♏8 | 13♏4 | 16°R37 | 20°R23 | 28♌58 | 29♌53 | 29♄23 | 14♄28 | T 1 |
| W 2 | 4 43 52 | 9°41'55 | 0♎10 | 29°48 | 24°20 | 24°27 | 28°39 | 3°13 | 13° 5 | 16♎35 | 20♋23 | 28°59 | 29°50 | 29°30 | 14°28 | W 2 |
| T 3 | 4 47 49 | 10°42'32 | 14°15 | 0♈2 | 25°29 | 25°13 | 28°50 | 3°19 | 13° 6 | 16°33 | 20°23 | 28°R59 | 29°47 | 29°36 | 14°29 | T 3 |
| F 4 | 4 51 45 | 11°43'11 | 28°29 | 0°R 7 | 26°38 | 25°59 | 29° 1 | 3°24 | 13° 7 | 16°32 | 20°D23 | 28°59 | 29°44 | 29°43 | 14°29 | F 4 |
| S 5 | 4 55 42 | 12°43'51 | 12♌50 | 0° 2 | 27°46 | 26°45 | 29°12 | 3°29 | 13° 8 | 16°30 | 20°23 | 28°57 | 29°41 | 29°50 | 14°30 | S 5 |
| S 6 | 4 59 38 | 13°44'33 | 27°14 | 29♌47 | 28°55 | 27°31 | 29°23 | 3°34 | 13° 9 | 16°28 | 20°23 | 28°55 | 29°37 | 29°56 | 14°30 | S 6 |
| M 7 | 5 3 35 | 14°45'17 | 11♎36 | 29°21 | 0♏3 | 28°17 | 29°34 | 3°40 | 13° 9 | 16°26 | 20°23 | 28°53 | 29°34 | 0♐3 | 14°31 | M 7 |
| T 8 | 5 7 31 | 15°46'02 | 25°51 | 28°44 | 1°11 | 29° 3 | 29°45 | 3°45 | 13°10 | 16°25 | 20°23 | 28°52 | 29°31 | 0°10 | 14°32 | T 8 |
| W 9 | 5 11 28 | 16°46'49 | 9♌56 | 27°56 | 2°19 | 29°49 | 29°55 | 3°51 | 13°10 | 16°23 | 20°23 | 28°50 | 29°28 | 0°17 | 14°33 | W 9 |
| T 10 | 5 15 25 | 17°47'36 | 23°44 | 26°58 | 3°27 | 0♏36 | 0♎6 | 3°56 | 13°11 | 16°21 | 20°23 | 28°D50 | 29°25 | 0°23 | 14°33 | T 10 |
| F 11 | 5 19 21 | 18°48'25 | 7♎31 | 25°51 | 4°34 | 1°22 | 0°17 | 4° 2 | 13°11 | 16°20 | 20°23 | 28°50 | 29°21 | 0°30 | 14°34 | F 11 |
| S 12 | 5 23 18 | 19°49'15 | 20°24 | 24°37 | 5°42 | 2° 8 | 0°27 | 4° 8 | 13°12 | 16°18 | 20°23 | 28°50 | 29°18 | 0°37 | 14°35 | S 12 |
| S 13 | 5 27 14 | 20°50'06 | 3♏14 | 23°17 | 6°49 | 2°55 | 0°37 | 4°14 | 13°12 | 16°16 | 20°24 | 28°51 | 29°15 | 0°43 | 14°37 | S 13 |
| M 14 | 5 31 11 | 21°50'58 | 15°45 | 21°54 | 7°56 | 3°41 | 0°48 | 4°19 | 13°13 | 16°15 | 20°24 | 28°52 | 29°12 | 0°50 | 14°38 | M 14 |
| T 15 | 5 35 7 | 22°51'50 | 28° 0 | 20°32 | 9° 3 | 4°28 | 0°58 | 4°25 | 13°13 | 16°13 | 20°24 | 28°53 | 29° 9 | 0°57 | 14°39 | T 15 |
| W 16 | 5 39 4 | 23°52'44 | 10♎4 | 19°12 | 10°10 | 5°14 | 1° 8 | 4°31 | 13°13 | 16°11 | 20°24 | 28°53 | 29° 6 | 1° 4 | 14°40 | W 16 |
| T 17 | 5 43 1 | 24°53'38 | 21°59 | 17°58 | 11°16 | 6° 1 | 1°18 | 4°37 | 13°13 | 16°10 | 20°25 | 28°R53 | 29° 2 | 1°10 | 14°41 | T 17 |
| F 18 | 5 46 57 | 25°54'32 | 3♐52 | 16°51 | 12°22 | 6°47 | 1°28 | 4°43 | 13°13 | 16° 8 | 20°25 | 28°53 | 28°59 | 1°17 | 14°43 | F 18 |
| S 19 | 5 50 54 | 26°55'28 | 15°46 | 15°54 | 13°28 | 7°34 | 1°38 | 4°49 | 13°R13 | 16° 6 | 20°25 | 28°53 | 28°56 | 1°24 | 14°44 | S 19 |
| S 20 | 5 54 50 | 27°56'24 | 27°46 | 15° 7 | 14°34 | 8°21 | 1°48 | 4°55 | 13°13 | 16° 5 | 20°26 | 28°53 | 28°53 | 1°31 | 14°46 | S 20 |
| M 21 | 5 58 47 | 28°57'21 | 9♄57 | 14°31 | 15°40 | 9° 7 | 1°57 | 5° 2 | 13°13 | 16° 3 | 20°26 | 28°D53 | 28°50 | 1°37 | 14°47 | M 21 |
| T 22 | 6 2 43 | 29°58'18 | 22°22 | 14° 7 | 16°45 | 9°54 | 2° 7 | 5° 8 | 13°13 | 16° 1 | 20°27 | 28°53 | 28°47 | 1°44 | 14°49 | T 22 |
| W 23 | 6 6 40 | 0♈59'16 | 5♎3 | 13°53 | 17°50 | 10°41 | 2°16 | 5°14 | 13°13 | 16° 0 | 20°27 | 28°53 | 28°43 | 1°51 | 14°50 | W 23 |
| T 24 | 6 10 36 | 2° 0'15 | 18° 2 | 13°D50 | 18°55 | 11°28 | 2°25 | 5°20 | 13°12 | 15°58 | 20°28 | 28°53 | 28°40 | 1°57 | 14°52 | T 24 |
| F 25 | 6 14 33 | 3° 1'14 | 1♄18 | 13°57 | 19°59 | 12°15 | 2°35 | 5°27 | 13°12 | 15°56 | 20°28 | 28°R53 | 28°37 | 2° 4 | 14°54 | F 25 |
| S 26 | 6 18 30 | 4° 2'14 | 14°52 | 14°14 | 21° 3 | 13° 1 | 2°44 | 5°33 | 13°12 | 15°55 | 20°29 | 28°53 | 28°34 | 2°11 | 14°55 | S 26 |
| S 27 | 6 22 26 | 5° 3'15 | 28°41 | 14°38 | 22° 7 | 13°48 | 2°53 | 5°40 | 13°11 | 15°53 | 20°29 | 28°53 | 28°31 | 2°18 | 14°57 | S 27 |
| M 28 | 6 26 23 | 6° 4'17 | 12♎41 | 15°10 | 23°11 | 14°35 | 3° 1 | 5°46 | 13°11 | 15°52 | 20°30 | 28°52 | 28°27 | 2°24 | 14°59 | M 28 |
| T 29 | 6 30 19 | 7° 5'19 | 26°50 | 15°49 | 24°14 | 15°22 | 3°10 | 5°53 | 13°10 | 15°50 | 20°30 | 28°51 | 28°24 | 2°31 | 15° 1 | T 29 |
| W 30 | 6 34 16 | 8° 6'22 | 11♏3 | 16°33 | 25°17 | 16° 9 | 3°19 | 5°59 | 13°10 | 15°48 | 20°31 | 28°50 | 28°21 | 2°38 | 15° 3 | W 30 |
| T 31 | 6 38 12 | 9♈726 | 25♏18 | 17♌23 | 26♏19 | 16♏56 | 3♎27 | 6♏6 | 13♏9 | 15♎47 | 20♋32 | 28♌49 | 28♌18 | 2♐45 | 15♄5 | T 31 |

Delta T = 17m08s

ASTRODIENST EPHEMERIS for the year 2551
geocentric

JANUARY 2551

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|------|------|--------|--------|-------|--------|-------|------|-------|------|-----|
| F 1 | 6 42 9 | 10♋8'30 | 9♌31 | 18♍18 | 27♎22 | 17♏43 | 3♐36 | 6♑12 | 13°R 8 | 15°R45 | 20♒32 | 28°D49 | 28♓15 | 2♃51 | 15♄7 | F 1 | |
| S 2 | 6 46 5 | 11° 9'35 | 23°39 | 19°16 | 28°24 | 18°30 | 3°44 | 6°19 | 13♑7 | 15II44 | 20°33 | 28♓49 | 28°12 | 2°58 | 15°9 | S 2 | |
| S 3 | 6 50 2 | 12°10'41 | 7♎42 | 20°19 | 29°25 | 19°17 | 3°52 | 6°26 | 13°7 | 15°42 | 20°34 | 28°50 | 28°8 | 3°5 | 15°12 | S 3 | |
| M 4 | 6 53 59 | 13°11'48 | 21°37 | 21°24 | 0♈26 | 20°4 | 4°0 | 6°32 | 13°6 | 15°41 | 20°34 | 28°51 | 28°5 | 3°11 | 15°14 | M 4 | |
| T 5 | 6 57 55 | 14°12'56 | 5♌23 | 22°33 | 1°27 | 20°51 | 4°8 | 6°39 | 13°5 | 15°39 | 20°35 | 28°52 | 28°2 | 3°18 | 15°16 | T 5 | |
| W 6 | 7 1 52 | 15°14'04 | 18°58 | 23°43 | 2°27 | 21°38 | 4°16 | 6°46 | 13°4 | 15°38 | 20°36 | 28°53 | 27°59 | 3°25 | 15°18 | W 6 | |
| T 7 | 7 5 48 | 16°15'12 | 2♋22 | 24°57 | 3°27 | 22°25 | 4°23 | 6°53 | 13°3 | 15°37 | 20°37 | 28°R54 | 27°56 | 3°32 | 15°21 | T 7 | |
| F 8 | 7 9 45 | 17°16'20 | 15°32 | 26°11 | 4°26 | 23°12 | 4°31 | 6°59 | 13°2 | 15°35 | 20°38 | 28°53 | 27°53 | 3°38 | 15°23 | F 8 | |
| S 9 | 7 13 41 | 18°17'29 | 28°27 | 27°28 | 5°25 | 24°0 | 4°38 | 7°6 | 13°1 | 15°34 | 20°39 | 28°51 | 27°49 | 3°45 | 15°26 | S 9 | |
| S 10 | 7 17 38 | 19°18'38 | 11♋8 | 28°46 | 6°24 | 24°47 | 4°46 | 7°13 | 12°59 | 15°32 | 20°39 | 28°48 | 27°46 | 3°52 | 15°28 | S 10 | |
| M11 | 7 21 34 | 20°19'47 | 23°35 | 0♋6 | 7°22 | 25°34 | 4°53 | 7°20 | 12°58 | 15°31 | 20°40 | 28°45 | 27°43 | 3°59 | 15°31 | M11 | |
| T 12 | 7 25 31 | 21°20'55 | 5♌49 | 1°27 | 8°19 | 26°21 | 5°0 | 7°27 | 12°57 | 15°30 | 20°41 | 28°41 | 27°40 | 4°5 | 15°33 | T 12 | |
| W13 | 7 29 28 | 22°22'04 | 17°52 | 2°49 | 9°16 | 27°8 | 5°6 | 7°34 | 12°56 | 15°29 | 20°42 | 28°37 | 27°37 | 4°12 | 15°36 | W13 | |
| T 14 | 7 33 24 | 23°23'12 | 29°48 | 4°12 | 10°12 | 27°55 | 5°13 | 7°41 | 12°54 | 15°27 | 20°43 | 28°34 | 27°33 | 4°19 | 15°39 | T 14 | |
| F 15 | 7 37 21 | 24°24'20 | 11♏40 | 5°36 | 11°8 | 28°43 | 5°19 | 7°48 | 12°53 | 15°26 | 20°44 | 28°32 | 27°30 | 4°25 | 15°42 | F 15 | |
| S 16 | 7 41 17 | 25°25'28 | 23°32 | 7°0 | 12°3 | 29°30 | 5°26 | 7°55 | 12°51 | 15°25 | 20°45 | 28°D31 | 27°27 | 4°32 | 15°44 | S 16 | |
| S 17 | 7 45 14 | 26°26'35 | 5♌31 | 8°26 | 12°58 | 0♈17 | 5°32 | 8°2 | 12°50 | 15°24 | 20°46 | 28°32 | 27°24 | 4°39 | 15°47 | S 17 | |
| M18 | 7 49 10 | 27°27'42 | 17°39 | 9°52 | 13°51 | 1°4 | 5°38 | 8°9 | 12°48 | 15°22 | 20°47 | 28°33 | 27°21 | 4°46 | 15°50 | M18 | |
| T 19 | 7 53 7 | 28°28'48 | 0♁3 | 11°19 | 14°45 | 1°51 | 5°44 | 8°16 | 12°47 | 15°21 | 20°48 | 28°35 | 27°18 | 4°52 | 15°53 | T 19 | |
| W20 | 7 57 3 | 29°29'54 | 12°47 | 12°47 | 15°37 | 2°39 | 5°50 | 8°23 | 12°45 | 15°20 | 20°49 | 28°36 | 27°14 | 4°59 | 15°56 | W20 | |
| T 21 | 8 1 0 | 0♈31'00 | 25°53 | 14°15 | 16°28 | 3°26 | 5°55 | 8°30 | 12°43 | 15°19 | 20°50 | 28°R37 | 27°11 | 5°6 | 15°59 | T 21 | |
| F 22 | 8 4 57 | 1°32'05 | 9♌22 | 15°44 | 17°19 | 4°13 | 6°1 | 8°37 | 12°41 | 15°18 | 20°52 | 28°37 | 27°8 | 5°12 | 16°2 | F 22 | |
| S 23 | 8 8 53 | 2°33'10 | 23°16 | 17°13 | 18°9 | 5°0 | 6°6 | 8°44 | 12°40 | 15°17 | 20°53 | 28°35 | 27°5 | 5°19 | 16°5 | S 23 | |
| S 24 | 8 12 50 | 3°34'14 | 7♎30 | 18°43 | 18°59 | 5°48 | 6°11 | 8°51 | 12°38 | 15°16 | 20°54 | 28°31 | 27°2 | 5°26 | 16°8 | S 24 | |
| M25 | 8 16 46 | 4°35'18 | 22°0 | 20°14 | 19°47 | 6°35 | 6°16 | 8°58 | 12°36 | 15°15 | 20°55 | 28°26 | 26°59 | 5°33 | 16°11 | M25 | |
| T 26 | 8 20 43 | 5°36'21 | 6♎40 | 21°45 | 20°34 | 7°22 | 6°21 | 9°6 | 12°34 | 15°14 | 20°56 | 28°20 | 26°55 | 5°39 | 16°14 | T 26 | |
| W27 | 8 24 39 | 6°37'24 | 21°21 | 23°17 | 21°21 | 8°9 | 6°25 | 9°13 | 12°32 | 15°13 | 20°57 | 28°14 | 26°52 | 5°46 | 16°18 | W27 | |
| T 28 | 8 28 36 | 7°38'27 | 5♌57 | 24°49 | 22°6 | 8°56 | 6°30 | 9°20 | 12°30 | 15°12 | 20°59 | 28°9 | 26°49 | 5°53 | 16°21 | T 28 | |
| F 29 | 8 32 33 | 8°39'29 | 20°23 | 26°22 | 22°51 | 9°44 | 6°34 | 9°27 | 12°28 | 15°11 | 21°0 | 28°6 | 26°46 | 6°0 | 16°24 | F 29 | |
| S 30 | 8 36 29 | 9°40'31 | 4♎34 | 27°55 | 23°34 | 10°31 | 6°38 | 9°34 | 12°26 | 15°10 | 21°1 | 28°D 4 | 26°43 | 6°6 | 16°27 | S 30 | |
| S 31 | 8 40 26 | 10♋41'33 | 18♎30 | 29♋29 | 24♌16 | 11♌18 | 6♎42 | 9♋41 | 12♑24 | 15II10 | 21♌2 | 28♓4 | 26♓39 | 6♃13 | 16♄31 | S 31 | |

Delta T = 17m09s

FEBRUARY 2551

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|------|-------|------|-----|
| M 1 | 8 44 22 | 11♋42'35 | 2♌10 | 1♋3 | 24♌57 | 12♌5 | 6♎46 | 9♋48 | 12°R22 | 15°R 9 | 21♌4 | 28♓6 | 26♓36 | 6♃20 | 16♄34 | M 1 | |
| T 2 | 8 48 19 | 12°43'36 | 15°35 | 2°38 | 25°37 | 12°52 | 6°50 | 9°55 | 12°R20 | 15II 8 | 21°5 | 28°7 | 26°33 | 6°26 | 16°37 | T 2 | |
| W 3 | 8 52 15 | 13°44'37 | 28°46 | 4°14 | 26°16 | 13°40 | 6°53 | 10°3 | 12°18 | 15°7 | 21°6 | 28°R 8 | 26°30 | 6°33 | 16°41 | W 3 | |
| T 4 | 8 56 12 | 14°45'37 | 11♋44 | 5°50 | 26°53 | 14°27 | 6°56 | 10°10 | 12°15 | 15°7 | 21°8 | 28°7 | 26°27 | 6°40 | 16°44 | T 4 | |
| F 5 | 9 0 8 | 15°46'36 | 24°32 | 7°27 | 27°30 | 15°14 | 6°59 | 10°17 | 12°13 | 15°6 | 21°9 | 28°3 | 26°24 | 6°47 | 16°48 | F 5 | |
| S 6 | 9 4 5 | 16°47'35 | 7♋8 | 9°5 | 28°4 | 16°1 | 7°2 | 10°24 | 12°11 | 15°5 | 21°10 | 27°58 | 26°20 | 6°53 | 16°51 | S 6 | |
| S 7 | 9 8 2 | 17°48'33 | 19°35 | 10°43 | 28°38 | 16°48 | 7°5 | 10°31 | 12°9 | 15°5 | 21°12 | 27°50 | 26°17 | 7°0 | 16°55 | S 7 | |
| M 8 | 9 11 58 | 18°49'30 | 1♌52 | 12°22 | 29°9 | 17°35 | 7°7 | 10°38 | 12°6 | 15°4 | 21°13 | 27°40 | 26°14 | 7°7 | 16°58 | M 8 | |
| T 9 | 9 15 55 | 19°50'26 | 13°59 | 14°2 | 29°40 | 18°22 | 7°10 | 10°45 | 12°4 | 15°4 | 21°15 | 27°29 | 26°11 | 7°13 | 17°2 | T 9 | |
| W10 | 9 19 51 | 20°51'20 | 25°59 | 15°42 | 0♃8 | 19°9 | 7°12 | 10°52 | 12°2 | 15°3 | 21°16 | 27°19 | 26°8 | 7°20 | 17°5 | W10 | |
| T 11 | 9 23 48 | 21°52'14 | 7♏53 | 17°23 | 0°35 | 19°57 | 7°14 | 10°59 | 11°59 | 15°3 | 21°17 | 27°10 | 26°5 | 7°27 | 17°9 | T 11 | |
| F 12 | 9 27 44 | 22°53'06 | 19°44 | 19°4 | 1°0 | 20°44 | 7°16 | 11°6 | 11°57 | 15°2 | 21°19 | 27°2 | 26°1 | 7°34 | 17°13 | F 12 | |
| S 13 | 9 31 41 | 23°53'57 | 1♌35 | 20°47 | 1°24 | 21°31 | 7°17 | 11°13 | 11°54 | 15°2 | 21°20 | 26°57 | 25°58 | 7°40 | 17°16 | S 13 | |
| S 14 | 9 35 37 | 24°54'47 | 13°30 | 22°30 | 1°45 | 22°18 | 7°19 | 11°20 | 11°52 | 15°1 | 21°22 | 26°54 | 25°55 | 7°47 | 17°20 | S 14 | |
| M15 | 9 39 34 | 25°55'36 | 25°35 | 24°14 | 2°5 | 23°5 | 7°20 | 11°27 | 11°49 | 15°1 | 21°23 | 26°D53 | 25°52 | 7°54 | 17°24 | M15 | |
| T 16 | 9 43 30 | 26°56'23 | 7II54 | 25°59 | 2°22 | 23°52 | 7°21 | 11°34 | 11°47 | 15°1 | 21°25 | 26°53 | 25°49 | 8°0 | 17°27 | T 16 | |
| W17 | 9 47 27 | 27°57'08 | 20°33 | 27°44 | 2°38 | 24°39 | 7°22 | 11°41 | 11°44 | 15°1 | 21°26 | 26°R54 | 25°45 | 8°7 | 17°31 | W17 | |
| T 18 | 9 51 24 | 28°57'53 | 3♌36 | 29°30 | 2°51 | 25°26 | 7°22 | 11°48 | 11°42 | 15°0 | 21°28 | 26°54 | 25°42 | 8°14 | 17°35 | T 18 | |
| F 19 | 9 55 20 | 29°58'35 | 17°7 | 1♌17 | 3°2 | 26°12 | 7°23 | 11°55 | 11°39 | 15°0 | 21°29 | 26°52 | 25°39 | 8°21 | 17°39 | F 19 | |
| S 20 | 9 59 17 | 0♈59'16 | 1♎7 | 3°5 | 3°11 | 26°59 | 7°23 | 12°2 | 11°37 | 15°0 | 21°31 | 26°48 | 25°36 | 8°27 | 17°42 | S 20 | |
| S 21 | 10 3 13 | 1°59'56 | 15°34 | 4°53 | 3°17 | 27°46 | 7°R23 | 12°9 | 11°34 | 15°0 | 21°32 | 26°41 | 25°33 | 8°34 | 17°46 | S 21 | |
| M22 | 10 7 10 | 3°0'34 | 0♎23 | 6°42 | 3°R21 | 28°33 | 7°23 | 12°15 | 11°31 | 15°0 | 21°34 | 26°32 | 25°30 | 8°41 | 17°50 | M22 | |
| T 23 | 10 11 6 | 4°1'11 | 15°27 | 8°32 | 3°R23 | 29°20 | 7°23 | 12°22 | 11°29 | 15°0 | 21°35 | 26°22 | 25°26 | 8°48 | 17°54 | T 23 | |
| W24 | 10 15 3 | 5°1'46 | 0♌34 | 10°22 | 3°22 | 0♃7 | 7°23 | 12°29 | 11°26 | 15°D 0 | 21°37 | 26°11 | 25°23 | 8°54 | 17°58 | W24 | |
| T 25 | 10 18 59 | 6°2'20 | 15°36 | 12°12 | 3°19 | 0°53 | 7°22 | 12°36 | 11°24 | 15°0 | 21°38 | 26°2 | 25°20 | 9°1 | 18°1 | T 25 | |
| F 26 | 10 22 56 | 7°2'53 | 0♎23 | 14°3 | 3°13 | 1°40 | 7°21 | 12°42 | 11°21 | 15°0 | 21°40 | 25°55 | 25°17 | 9°8 | 18°5 | F 26 | |
| S 27 | 10 26 53 | 8°3'25 | 14°50 | 15°54 | 3°4 | 2°27 | 7°20 | 12°49 | 11°18 | 15°0 | 21°41 | 25°51 | 25°14 | 9°14 | 18°9 | S 27 | |
| S 28 | 10 30 49 | 9♌3'56 | 28♎52 | 17♌46 | 2♃54 | 3♃13 | 7♎19 | 12♋56 | 11♑16 | 15II 0 | 21♌43 | 25♓49 | 25♓10 | 9♃21 | 18♄13 | S 28 | |

Delta T = 17m09s

ASTRODIENST EPHEMERIS for the year 2551 geocentric

MAY 2551

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|---------|-------|-------|--------|-------|-------|-------|------|---|---|---|-----|
| S 1 | 14 35 15 | 10♎36'44 | 4♋39 | 13♉21 | 27♋25 | 20♏11 | 1°R27 | 18♏3 | 9°R11 | 16♊8 | 23♋15 | 20°R23 | 21♌53 | 16♉17 | 21♋56 | S 1 | | | | |
| S 2 | 14 39 12 | 11°35'17 | 16°38 | 14°25 | 28° 8 | 20°55 | 1♌20 | 18° 5 | 9♎10 | 16°10 | 23°16 | 20♌19 | 21°50 | 16°24 | 21°58 | S 2 | | | | |
| M 3 | 14 43 9 | 12°33'48 | 28°32 | 15°32 | 28°51 | 21°39 | 1°12 | 18° 8 | 9° 9 | 16°12 | 23°17 | 20°13 | 21°47 | 16°31 | 22° 1 | M 3 | | | | |
| T 4 | 14 47 5 | 13°32'18 | 10♉23 | 16°41 | 29°36 | 22°23 | 1° 5 | 18°10 | 9° 8 | 16°14 | 23°19 | 20° 6 | 21°44 | 16°38 | 22° 4 | T 4 | | | | |
| W 5 | 14 51 2 | 14°30'46 | 22°14 | 17°53 | 0♉21 | 23° 7 | 0°57 | 18°12 | 9° 8 | 16°16 | 23°20 | 20° 0 | 21°41 | 16°44 | 22° 7 | W 5 | | | | |
| T 6 | 14 54 58 | 15°29'12 | 4♌7 | 19° 8 | 1° 8 | 23°51 | 0°50 | 18°15 | 9° 7 | 16°18 | 23°21 | 19°54 | 21°38 | 16°51 | 22° 9 | T 6 | | | | |
| F 7 | 14 58 55 | 16°27'37 | 16° 4 | 20°24 | 1°55 | 24°35 | 0°43 | 18°17 | 9° 7 | 16°20 | 23°22 | 19°48 | 21°34 | 16°58 | 22°12 | F 7 | | | | |
| S 8 | 15 2 51 | 17°25'59 | 28° 7 | 21°43 | 2°43 | 25°18 | 0°36 | 18°19 | 9° 6 | 16°22 | 23°23 | 19°45 | 21°31 | 17° 4 | 22°15 | S 8 | | | | |
| S 9 | 15 6 48 | 18°24'20 | 10♊17 | 23° 4 | 3°31 | 26° 2 | 0°29 | 18°21 | 9° 6 | 16°24 | 23°24 | 19°43 | 21°28 | 17°11 | 22°17 | S 9 | | | | |
| M10 | 15 10 44 | 19°22'39 | 22°37 | 24°27 | 4°21 | 26°46 | 0°22 | 18°23 | 9° 5 | 16°26 | 23°25 | 19°D43 | 21°25 | 17°18 | 22°20 | M10 | | | | |
| T 11 | 15 14 41 | 20°20'56 | 5♌8 | 25°52 | 5°11 | 27°29 | 0°15 | 18°24 | 9° 5 | 16°28 | 23°26 | 19°43 | 21°22 | 17°25 | 22°22 | T 11 | | | | |
| W12 | 15 18 38 | 21°19'12 | 17°52 | 27°19 | 6° 2 | 28°13 | 0° 8 | 18°26 | 9° 5 | 16°30 | 23°27 | 19°45 | 21°19 | 17°31 | 22°24 | W12 | | | | |
| T 13 | 15 22 34 | 22°17'25 | 0♌53 | 28°49 | 6°53 | 28°56 | 0° 1 | 18°28 | 9° 4 | 16°32 | 23°28 | 19°46 | 21°15 | 17°38 | 22°27 | T 13 | | | | |
| F 14 | 15 26 31 | 23°15'36 | 14°13 | 0♎20 | 7°45 | 29°39 | 29♌55 | 18°29 | 9° 4 | 16°34 | 23°29 | 19°48 | 21°12 | 17°45 | 22°29 | F 14 | | | | |
| S 15 | 15 30 27 | 24°13'45 | 27°53 | 1°53 | 8°38 | 0♊23 | 29°48 | 18°31 | 9° 4 | 16°36 | 23°30 | 19°R48 | 21° 9 | 17°51 | 22°31 | S 15 | | | | |
| S 16 | 15 34 24 | 25°11'53 | 11♎55 | 3°28 | 9°31 | 1° 6 | 29°42 | 18°32 | 9° 4 | 16°39 | 23°31 | 19°47 | 21° 6 | 17°58 | 22°34 | S 16 | | | | |
| M17 | 15 38 20 | 26° 9'58 | 26°17 | 5° 5 | 10°25 | 1°49 | 29°36 | 18°33 | 9°D 4 | 16°41 | 23°32 | 19°45 | 21° 3 | 18° 5 | 22°36 | M17 | | | | |
| T 18 | 15 42 17 | 27° 8'01 | 10♎58 | 6°44 | 11°20 | 2°32 | 29°30 | 18°34 | 9° 4 | 16°43 | 23°32 | 19°42 | 20°59 | 18°11 | 22°38 | T 18 | | | | |
| W19 | 15 46 13 | 28° 6'03 | 25°51 | 8°25 | 12°14 | 3°15 | 29°23 | 18°35 | 9° 4 | 16°45 | 23°33 | 19°39 | 20°56 | 18°18 | 22°40 | W19 | | | | |
| T 20 | 15 50 10 | 29° 4'02 | 10♏49 | 10° 8 | 13°10 | 3°59 | 29°18 | 18°36 | 9° 4 | 16°47 | 23°34 | 19°37 | 20°53 | 18°25 | 22°42 | T 20 | | | | |
| F 21 | 15 54 7 | 0♊21 | 25°43 | 11°53 | 14° 6 | 4°42 | 29°12 | 18°37 | 9° 5 | 16°49 | 23°35 | 19°35 | 20°50 | 18°32 | 22°44 | F 21 | | | | |
| S 22 | 15 58 3 | 0°59'57 | 10♌26 | 13°40 | 15° 2 | 5°25 | 29° 6 | 18°38 | 9° 5 | 16°51 | 23°36 | 19°34 | 20°47 | 18°38 | 22°46 | S 22 | | | | |
| S 23 | 16 2 0 | 1°57'53 | 24°51 | 15°29 | 15°59 | 6° 7 | 29° 1 | 18°38 | 9° 5 | 16°54 | 23°36 | 19°D34 | 20°44 | 18°45 | 22°48 | S 23 | | | | |
| M24 | 16 5 56 | 2°55'46 | 8♎52 | 17°20 | 16°56 | 6°50 | 28°55 | 18°39 | 9° 5 | 16°56 | 23°37 | 19°34 | 20°40 | 18°52 | 22°50 | M24 | | | | |
| T 25 | 16 9 53 | 3°53'39 | 22°29 | 19°13 | 17°54 | 7°33 | 28°50 | 18°39 | 9° 6 | 16°58 | 23°38 | 19°35 | 20°37 | 18°58 | 22°52 | T 25 | | | | |
| W 26 | 16 13 49 | 4°51'30 | 5♏49 | 21° 8 | 18°52 | 8°16 | 28°45 | 18°40 | 9° 6 | 17° 0 | 23°39 | 19°37 | 20°34 | 19° 5 | 22°53 | W 26 | | | | |
| T 27 | 16 17 46 | 5°49'20 | 18°28 | 23° 5 | 19°51 | 8°59 | 28°40 | 18°40 | 9° 7 | 17° 2 | 23°39 | 19°38 | 20°31 | 19°12 | 22°55 | T 27 | | | | |
| F 28 | 16 21 42 | 6°47'09 | 0♋55 | 25° 4 | 20°49 | 9°41 | 28°35 | 18°40 | 9° 7 | 17° 5 | 23°40 | 19°38 | 20°28 | 19°19 | 22°57 | F 28 | | | | |
| S 29 | 16 25 39 | 7°44'57 | 13° 7 | 27° 4 | 21°49 | 10°24 | 28°31 | 18°R40 | 9° 8 | 17° 7 | 23°40 | 19°R38 | 20°25 | 19°25 | 22°58 | S 29 | | | | |
| S 30 | 16 29 36 | 8°42'43 | 25° 8 | 29° 7 | 22°48 | 11° 6 | 28°26 | 18°40 | 9° 9 | 17° 9 | 23°41 | 19°38 | 20°21 | 19°32 | 23° 0 | S 30 | | | | |
| M31 | 16 33 32 | 9♊40'29 | 7♉2 | 1♊11 | 23♉48 | 11♊49 | 28♏22 | 18°40 | 9°10 10 | 17°11 | 23♋42 | 19♌37 | 20♌18 | 19°39 | 23♋1 | M31 | | | | |

Delta T = 17m10s

JUNE 2551

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|---------|-------|--------|--------|-------|--------|--------|------|---|---|---|-----|
| T 1 | 16 37 29 | 10♊38'13 | 18♉53 | 3♊16 | 24♉49 | 12♊31 | 28°R17 | 18°R39 | 9°10 10 | 17°14 | 23♋42 | 19°R36 | 20♌15 | 19°145 | 23♋3 | T 1 | | | | |
| W 2 | 16 41 25 | 11°35'57 | 0♎45 | 5°24 | 25°49 | 13°14 | 28♏13 | 18°39 | 9°11 | 17°16 | 23°43 | 19♌35 | 20°12 | 19°52 | 23° 4 | W 2 | | | | |
| T 3 | 16 45 22 | 12°33'39 | 12°41 | 7°32 | 26°50 | 13°56 | 28°10 | 18°39 | 9°12 | 17°18 | 23°43 | 19°34 | 20° 9 | 19°59 | 23° 5 | T 3 | | | | |
| F 4 | 16 49 18 | 13°31'20 | 24°45 | 9°42 | 27°51 | 14°39 | 28° 6 | 18°38 | 9°13 | 17°20 | 23°44 | 19°33 | 20° 5 | 20° 5 | 23° 7 | F 4 | | | | |
| S 5 | 16 53 15 | 14°29'00 | 6♊58 | 11°53 | 28°53 | 15°21 | 28° 2 | 18°37 | 9°14 | 17°23 | 23°44 | 19°32 | 20° 2 | 20°12 | 23° 8 | S 5 | | | | |
| S 6 | 16 57 11 | 15°26'39 | 19°22 | 14° 4 | 29°55 | 16° 3 | 27°59 | 18°37 | 9°15 | 17°25 | 23°45 | 19°D32 | 19°59 | 20°19 | 23° 9 | S 6 | | | | |
| M 7 | 17 1 8 | 16°24'17 | 1♎59 | 16°16 | 0♎57 | 16°45 | 27°56 | 18°36 | 9°16 | 17°27 | 23°45 | 19°32 | 19°56 | 20°26 | 23°10 | M 7 | | | | |
| T 8 | 17 5 5 | 17°21'54 | 14°49 | 18°28 | 1°59 | 17°27 | 27°53 | 18°35 | 9°17 | 17°29 | 23°45 | 19°33 | 19°53 | 20°32 | 23°11 | T 8 | | | | |
| W 9 | 17 9 1 | 18°19'29 | 27°53 | 20°40 | 3° 1 | 18° 9 | 27°50 | 18°34 | 9°18 | 17°32 | 23°46 | 19°33 | 19°50 | 20°39 | 23°12 | W 9 | | | | |
| T 10 | 17 12 58 | 19°17'03 | 11♏10 | 22°52 | 4° 4 | 18°51 | 27°47 | 18°33 | 9°20 | 17°34 | 23°46 | 19°R33 | 19°46 | 20°46 | 23°13 | T 10 | | | | |
| F 11 | 17 16 54 | 20°14'36 | 24°42 | 25° 3 | 5° 7 | 19°33 | 27°45 | 18°32 | 9°21 | 17°36 | 23°46 | 19°33 | 19°43 | 20°52 | 23°14 | F 11 | | | | |
| S 12 | 17 20 51 | 21°12'07 | 8♎29 | 27°13 | 6°10 | 20°15 | 27°42 | 18°30 | 9°22 | 17°38 | 23°47 | 19°33 | 19°40 | 20°59 | 23°15 | S 12 | | | | |
| S 13 | 17 24 47 | 22° 9'37 | 22°29 | 29°22 | 7°14 | 20°57 | 27°40 | 18°29 | 9°24 | 17°41 | 23°47 | 19°D33 | 19°37 | 21° 6 | 23°16 | S 13 | | | | |
| M14 | 17 28 44 | 23° 7'06 | 6♎41 | 1♎30 | 8°18 | 21°39 | 27°38 | 18°27 | 9°25 | 17°43 | 23°47 | 19°33 | 19°34 | 21°13 | 23°16 | M14 | | | | |
| T 15 | 17 32 40 | 24° 4'34 | 21° 3 | 3°36 | 9°21 | 22°21 | 27°37 | 18°26 | 9°27 | 17°45 | 23°47 | 19°33 | 19°31 | 21°19 | 23°17 | T 15 | | | | |
| W16 | 17 36 37 | 25° 2'00 | 5♏33 | 5°41 | 10°26 | 23° 3 | 27°35 | 18°24 | 9°28 | 17°47 | 23°48 | 19°33 | 19°27 | 21°26 | 23°18 | W16 | | | | |
| T 17 | 17 40 34 | 25°59'25 | 20° 5 | 7°43 | 11°30 | 23°44 | 27°33 | 18°22 | 9°30 | 17°49 | 23°48 | 19°34 | 19°24 | 21°33 | 23°18 | T 17 | | | | |
| F 18 | 17 44 30 | 26°56'50 | 4♌34 | 9°44 | 12°34 | 24°26 | 27°32 | 18°20 | 9°32 | 17°52 | 23°48 | 19°34 | 19°21 | 21°39 | 23°19 | F 18 | | | | |
| S 19 | 17 48 27 | 27°54'13 | 18°56 | 11°42 | 13°39 | 25° 7 | 27°31 | 18°18 | 9°33 | 17°54 | 23°48 | 19°R35 | 19°18 | 21°46 | 23°19 | S 19 | | | | |
| S 20 | 17 52 23 | 28°51'36 | 3♎4 | 13°39 | 14°44 | 25°49 | 27°30 | 18°16 | 9°35 | 17°56 | 23°48 | 19°34 | 19°15 | 21°53 | 23°19 | S 20 | | | | |
| M21 | 17 56 20 | 29°48'58 | 16°56 | 15°32 | 15°49 | 26°30 | 27°30 | 18°14 | 9°37 | 17°58 | 23°48 | 19°34 | 19°11 | 21°59 | 23°20 | M21 | | | | |
| T 22 | 18 0 16 | 0♎46'19 | 0♎27 | 17°24 | 16°54 | 27°12 | 27°29 | 18°12 | 9°39 | 18° 1 | 23°48 | 19°33 | 19° 8 | 22° 6 | 23°20 | T 22 | | | | |
| W23 | 18 4 13 | 1°43'39 | 13°38 | 19°13 | 18° 0 | 27°53 | 27°29 | 18°10 | 9°41 | 18° 3 | 23°48 | 19°31 | 19° 5 | 22°13 | 23°20 | W23 | | | | |
| T 24 | 18 8 10 | 2°40'59 | 26°27 | 21° 0 | 19° 5 | 28°35 | 27°D28 | 18° 7 | 9°42 | 18° 5 | 23°R48 | 19°29 | 19° 2 | 22°20 | 23°20 | T 24 | | | | |
| F 25 | 18 12 6 | 3°38'19 | 8♋57 | 22°44 | 20°11 | 29°16 | 27°28 | 18° 5 | 9°44 | 18° 7 | 23°48 | 19°28 | 18°59 | 22°26 | 23°21 | F 25 | | | | |
| S 26 | 18 16 3 | 4°35'38 | 21°11 | 24°26 | 21°17 | 29°57 | 27°29 | 18° 2 | 9°46 | 18° 9 | 23°48 | 19°27 | 18°56 | 22°33 | 23°R21 | S 26 | | | | |
| S 27 | 18 19 59 | 5°32'57 | 3♉14 | 26° 6 | 22°23 | 0♎38 | 27°29 | 18° 0 | 9°49 | 18°11 | 23°48 | 19°D26 | 18°52 | 22°40 | 23°21 | S 27 | | | | |
| M28 | 18 23 56 | 6°30'15 | 15° 8 | 27°43 | 23°29 | 1°20 | 27°30 | 17°57 | 9°51 | 18°14 | 23°48 | 19°26 | 18°49 | 22°46 | 23°21 | M28 | | | | |
| T 29 | 18 27 52 | 7°27'33 | 27° 0 | 29°17 | 24°36 | 2° 1 | 27°30 | 17°54 | 9°53 | 18°16 | 23°48 | 19°27 | 18°46 | 22°53 | 23°20 | T 29 | | | | |
| W30 | 18 31 49 | 8♎24'51 | 8♎53 | 0♏49 | 25♎42 | 2♎42 | 27♏31 | 17°52 | 9°55 | 18°18 | 23♋48 | 19♌29 | 18♌43 | 23♉0 | 23♋20 | W30 | | | | |

Delta T = 17m10s

ASTRODIENST EPHEMERIS for the year 2551
geocentric

SEPTEMBER 2551

00:00 UT

Table with 17 columns: Day, Sid.t, ☉, ☽, ♀, ♁, ♂, ♃, ♅, ♁, ♆, ♀, ♁, ♁, ♁, ♁, Day. Rows include dates from W 1 to T 30 with corresponding celestial coordinates and symbols.

Delta T = 17m11s

OCTOBER 2551

00:00 UT

Table with 17 columns: Day, Sid.t, ☉, ☽, ♀, ♁, ♂, ♃, ♅, ♁, ♆, ♀, ♁, ♁, ♁, ♁, Day. Rows include dates from F 1 to S 31 with corresponding celestial coordinates and symbols.

Delta T = 17m11s

ASTRODIENST EPHEMERIS for the year 2551
geocentric

NOVEMBER 2551

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♄ | ♃ | ♅ | ♆ | ♁ | ♇ | ♂ | ♃ | ♅ | ♆ | ♁ | ♇ | ♂ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|--------|------|---|---|---|-----|
| M 1 | 2 40 42 | 8♄22'05 | 27♄ 7 | 1♂29 | 23♄54 | 22♄35 | 15♄42 | 12♄14 | 16♄46 | 19♂R39 | 21♂R52 | 10♂R43 | 12♂ 9 | 6♂49 | 19♂R 0 | M 1 | | | | |
| T 2 | 2 44 38 | 9°21'50 | 12♂ 3 | 2°41 | 25° 9 | 23°11 | 15°55 | 12°15 | 16°48 | 19♄38 | 21♂51 | 10°D43 | 12° 6 | 6°55 | 18♂59 | T 2 | | | | |
| W 3 | 2 48 35 | 10°21'36 | 26°37 | 3°50 | 26°24 | 23°48 | 16° 8 | 12°17 | 16°51 | 19°37 | 21°50 | 10♂44 | 12° 2 | 7° 2 | 18°57 | W 3 | | | | |
| T 4 | 2 52 31 | 11°21'24 | 10♂346 | 4°58 | 27°39 | 24°24 | 16°21 | 12°19 | 16°53 | 19°36 | 21°49 | 10°45 | 11°59 | 7° 9 | 18°56 | T 4 | | | | |
| F 5 | 2 56 28 | 12°21'14 | 24°27 | 6° 4 | 28°54 | 25° 0 | 16°34 | 12°20 | 16°56 | 19°34 | 21°49 | 10°47 | 11°56 | 7°15 | 18°54 | F 5 | | | | |
| S 6 | 3 0 24 | 13°21'05 | 7♄43 | 7° 7 | 0♄ 9 | 25°36 | 16°48 | 12°22 | 16°58 | 19°33 | 21°48 | 10°R47 | 11°53 | 7°22 | 18°53 | S 6 | | | | |
| S 7 | 3 4 21 | 14°20'58 | 20°37 | 8° 7 | 1°24 | 26°13 | 17° 1 | 12°24 | 17° 1 | 19°32 | 21°47 | 10°47 | 11°50 | 7°29 | 18°52 | S 7 | | | | |
| M 8 | 3 8 17 | 15°20'52 | 3♂11 | 9° 5 | 2°39 | 26°49 | 17°14 | 12°27 | 17° 3 | 19°31 | 21°47 | 10°46 | 11°47 | 7°35 | 18°50 | M 8 | | | | |
| T 9 | 3 12 14 | 16°20'48 | 15°29 | 9°59 | 3°54 | 27°25 | 17°27 | 12°29 | 17° 6 | 19°29 | 21°46 | 10°44 | 11°43 | 7°42 | 18°49 | T 9 | | | | |
| W10 | 3 16 11 | 17°20'45 | 27°36 | 10°49 | 5° 9 | 28° 1 | 17°40 | 12°31 | 17° 8 | 19°28 | 21°45 | 10°40 | 11°40 | 7°49 | 18°48 | W10 | | | | |
| T 11 | 3 20 7 | 18°20'45 | 9♂34 | 11°36 | 6°24 | 28°37 | 17°53 | 12°34 | 17°10 | 19°26 | 21°45 | 10°37 | 11°37 | 7°55 | 18°47 | T 11 | | | | |
| F 12 | 3 24 4 | 19°20'46 | 21°27 | 12°17 | 7°39 | 29°13 | 18° 6 | 12°36 | 17°12 | 19°25 | 21°44 | 10°33 | 11°34 | 8° 2 | 18°46 | F 12 | | | | |
| S 13 | 3 28 0 | 20°20'48 | 3♂17 | 12°54 | 8°54 | 29°49 | 18°19 | 12°39 | 17°15 | 19°24 | 21°44 | 10°30 | 11°31 | 8° 9 | 18°45 | S 13 | | | | |
| S 14 | 3 31 57 | 21°20'53 | 15° 6 | 13°25 | 10° 9 | 0♄25 | 18°32 | 12°42 | 17°17 | 19°22 | 21°43 | 10°27 | 11°28 | 8°15 | 18°44 | S 14 | | | | |
| M15 | 3 35 53 | 22°20'59 | 26°57 | 13°49 | 11°25 | 1° 0 | 18°46 | 12°44 | 17°19 | 19°21 | 21°43 | 10°25 | 11°24 | 8°22 | 18°43 | M15 | | | | |
| T 16 | 3 39 50 | 23°21'07 | 8♄51 | 14° 7 | 12°40 | 1°36 | 18°59 | 12°47 | 17°21 | 19°19 | 21°42 | 10°D25 | 11°21 | 8°29 | 18°42 | T 16 | | | | |
| W17 | 3 43 46 | 24°21'17 | 20°51 | 14°17 | 13°55 | 2°12 | 19°12 | 12°50 | 17°23 | 19°18 | 21°42 | 10°25 | 11°18 | 8°35 | 18°42 | W17 | | | | |
| T 18 | 3 47 43 | 25°21'29 | 2♂58 | 14°R18 | 15°10 | 2°48 | 19°25 | 12°53 | 17°25 | 19°16 | 21°41 | 10°26 | 11°15 | 8°42 | 18°41 | T 18 | | | | |
| F 19 | 3 51 40 | 26°21'43 | 15°16 | 14°11 | 16°25 | 3°23 | 19°38 | 12°57 | 17°27 | 19°15 | 21°41 | 10°27 | 11°12 | 8°49 | 18°40 | F 19 | | | | |
| S 20 | 3 55 36 | 27°21'58 | 27°48 | 13°54 | 17°41 | 3°59 | 19°51 | 13° 0 | 17°29 | 19°13 | 21°40 | 10°29 | 11° 8 | 8°55 | 18°40 | S 20 | | | | |
| S 21 | 3 59 33 | 28°22'16 | 10♄35 | 13°27 | 18°56 | 4°34 | 20° 4 | 13° 3 | 17°30 | 19°12 | 21°40 | 10°30 | 11° 5 | 9° 2 | 18°39 | S 21 | | | | |
| M22 | 4 3 29 | 29°22'35 | 23°43 | 12°50 | 20°11 | 5°10 | 20°17 | 13° 7 | 17°32 | 19°10 | 21°40 | 10°R30 | 11° 2 | 9° 9 | 18°39 | M22 | | | | |
| T 23 | 4 7 26 | 0♄22'57 | 7♄12 | 12° 3 | 21°27 | 5°45 | 20°30 | 13°10 | 17°34 | 19° 8 | 21°39 | 10°30 | 10°59 | 9°15 | 18°38 | T 23 | | | | |
| W24 | 4 11 22 | 1°23'20 | 21° 6 | 11° 7 | 22°42 | 6°21 | 20°43 | 13°14 | 17°36 | 19° 7 | 21°39 | 10°30 | 10°56 | 9°22 | 18°38 | W24 | | | | |
| T 25 | 4 15 19 | 2°23'45 | 5♄23 | 10° 1 | 23°57 | 6°56 | 20°56 | 13°18 | 17°37 | 19° 5 | 21°39 | 10°29 | 10°53 | 9°29 | 18°38 | T 25 | | | | |
| F 26 | 4 19 15 | 3°24'12 | 20° 1 | 8°49 | 25°12 | 7°31 | 21° 9 | 13°21 | 17°39 | 19° 4 | 21°39 | 10°28 | 10°49 | 9°35 | 18°38 | F 26 | | | | |
| S 27 | 4 23 12 | 4°24'41 | 4♄56 | 7°31 | 26°28 | 8° 7 | 21°22 | 13°25 | 17°40 | 19° 2 | 21°38 | 10°27 | 10°46 | 9°42 | 18°37 | S 27 | | | | |
| S 28 | 4 27 9 | 5°25'12 | 20° 0 | 6°10 | 27°43 | 8°42 | 21°35 | 13°29 | 17°42 | 19° 0 | 21°38 | 10°27 | 10°43 | 9°49 | 18°37 | S 28 | | | | |
| M29 | 4 31 5 | 6°25'44 | 5♂ 5 | 4°49 | 28°59 | 9°17 | 21°48 | 13°33 | 17°43 | 18°59 | 21°38 | 10°D26 | 10°40 | 9°55 | 18°D37 | M29 | | | | |
| T 30 | 4 35 2 | 7♂26'18 | 20♂ 2 | 3♂30 | 0♂14 | 9♄52 | 22♄ 1 | 13♄37 | 17♄44 | 18♄57 | 21♂38 | 10♂26 | 10♂37 | 10♂ 2 | 18♂37 | T 30 | | | | |

Delta T = 17m12s

DECEMBER 2551

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♄ | ♃ | ♅ | ♆ | ♁ | ♇ | ♂ | ♃ | ♅ | ♆ | ♁ | ♇ | ♂ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|------|---|---|---|-----|
| W 1 | 4 38 58 | 8♂26'53 | 4♂43 | 2°R16 | 1♂29 | 10♄27 | 22♄14 | 13♄41 | 17♄46 | 18°R55 | 21°R38 | 10♂27 | 10♂34 | 10♂ 9 | 18♂37 | W 1 | | | | |
| T 2 | 4 42 55 | 9°27'30 | 19° 1 | 1♂10 | 2°45 | 11° 2 | 22°27 | 13°46 | 17°47 | 18♄54 | 21♂38 | 10°27 | 10°30 | 10°15 | 18°37 | T 2 | | | | |
| F 3 | 4 46 51 | 10°28'07 | 2♄53 | 0°12 | 4° 0 | 11°37 | 22°40 | 13°50 | 17°48 | 18°52 | 21°38 | 10°R27 | 10°27 | 10°22 | 18°38 | F 3 | | | | |
| S 4 | 4 50 48 | 11°28'46 | 16°18 | 29♄25 | 5°16 | 12°11 | 22°53 | 13°55 | 17°49 | 18°50 | 21°37 | 10°27 | 10°24 | 10°29 | 18°38 | S 4 | | | | |
| S 5 | 4 54 45 | 12°29'26 | 29°18 | 28°49 | 6°31 | 12°46 | 23° 5 | 13°59 | 17°50 | 18°49 | 21°37 | 10°27 | 10°21 | 10°35 | 18°38 | S 5 | | | | |
| M 6 | 4 58 41 | 13°30'07 | 11♂55 | 28°25 | 7°46 | 13°21 | 23°18 | 14° 4 | 17°51 | 18°47 | 21°D37 | 10°D27 | 10°18 | 10°42 | 18°39 | M 6 | | | | |
| T 7 | 5 2 38 | 14°30'49 | 24°14 | 28°12 | 9° 2 | 13°56 | 23°31 | 14° 8 | 17°52 | 18°45 | 21°37 | 10°27 | 10°14 | 10°49 | 18°39 | T 7 | | | | |
| W 8 | 5 6 34 | 15°31'32 | 6♂19 | 28°D10 | 10°17 | 14°30 | 23°43 | 14°13 | 17°53 | 18°44 | 21°37 | 10°27 | 10°11 | 10°55 | 18°39 | W 8 | | | | |
| T 9 | 5 10 31 | 16°32'16 | 18°14 | 28°19 | 11°33 | 15° 5 | 23°56 | 14°18 | 17°54 | 18°42 | 21°38 | 10°28 | 10° 8 | 11° 2 | 18°40 | T 9 | | | | |
| F 10 | 5 14 27 | 17°33'01 | 0♂ 3 | 28°38 | 12°48 | 15°39 | 24° 9 | 14°23 | 17°55 | 18°40 | 21°38 | 10°28 | 10° 5 | 11° 9 | 18°41 | F 10 | | | | |
| S 11 | 5 18 24 | 18°33'47 | 11°52 | 29° 5 | 14° 4 | 16°13 | 24°21 | 14°28 | 17°56 | 18°39 | 21°38 | 10°29 | 10° 2 | 11°15 | 18°41 | S 11 | | | | |
| S 12 | 5 22 20 | 19°34'34 | 23°42 | 29°41 | 15°19 | 16°48 | 24°34 | 14°33 | 17°56 | 18°37 | 21°38 | 10°30 | 9°59 | 11°22 | 18°42 | S 12 | | | | |
| M13 | 5 26 17 | 20°35'22 | 5♄23 | 0♂23 | 16°34 | 17°22 | 24°46 | 14°38 | 17°57 | 18°35 | 21°38 | 10°R30 | 9°55 | 11°29 | 18°43 | M13 | | | | |
| T 14 | 5 30 14 | 21°36'11 | 17°41 | 1°12 | 17°50 | 17°56 | 24°59 | 14°43 | 17°58 | 18°33 | 21°38 | 10°R30 | 9°52 | 11°35 | 18°44 | T 14 | | | | |
| W15 | 5 34 10 | 22°37'01 | 29°53 | 2° 6 | 19° 5 | 18°30 | 25°11 | 14°48 | 17°58 | 18°32 | 21°39 | 10°30 | 9°49 | 11°42 | 18°44 | W15 | | | | |
| T 16 | 5 38 7 | 23°37'53 | 12♂16 | 3° 6 | 20°21 | 19° 4 | 25°23 | 14°53 | 17°59 | 18°30 | 21°39 | 10°28 | 9°46 | 11°49 | 18°45 | T 16 | | | | |
| F 17 | 5 42 3 | 24°38'45 | 24°50 | 4° 9 | 21°36 | 19°38 | 25°36 | 14°59 | 17°59 | 18°28 | 21°39 | 10°26 | 9°43 | 11°55 | 18°46 | F 17 | | | | |
| S 18 | 5 46 0 | 25°39'38 | 7♄37 | 5°16 | 22°52 | 20°12 | 25°48 | 15° 4 | 17°59 | 18°27 | 21°39 | 10°24 | 9°40 | 12° 2 | 18°47 | S 18 | | | | |
| S 19 | 5 49 56 | 26°40'33 | 20°38 | 6°26 | 24° 7 | 20°46 | 26° 0 | 15°10 | 18° 0 | 18°25 | 21°40 | 10°22 | 9°36 | 12° 9 | 18°49 | S 19 | | | | |
| M20 | 5 53 53 | 27°41'29 | 3♄54 | 7°39 | 25°23 | 21°19 | 26°12 | 15°15 | 18° 0 | 18°23 | 21°40 | 10°20 | 9°33 | 12°15 | 18°50 | M20 | | | | |
| T 21 | 5 57 49 | 28°42'25 | 17°25 | 8°55 | 26°38 | 21°53 | 26°25 | 15°21 | 18° 0 | 18°22 | 21°40 | 10°19 | 9°30 | 12°22 | 18°51 | T 21 | | | | |
| W22 | 6 1 46 | 29°43'23 | 1♄11 | 10°12 | 27°54 | 22°27 | 26°37 | 15°26 | 18° 0 | 18°20 | 21°41 | 10°D18 | 9°27 | 12°29 | 18°52 | W22 | | | | |
| T 23 | 6 5 43 | 0♂44'22 | 15°14 | 11°32 | 29° 9 | 23° 0 | 26°49 | 15°32 | 18° 0 | 18°18 | 21°41 | 10°19 | 9°24 | 12°35 | 18°54 | T 23 | | | | |
| F 24 | 6 9 39 | 1°45'22 | 29°32 | 12°53 | 0♂25 | 23°33 | 27° 0 | 15°38 | 18°R 0 | 18°17 | 21°42 | 10°20 | 9°20 | 12°42 | 18°55 | F 24 | | | | |
| S 25 | 6 13 36 | 2°46'24 | 14♄ 2 | 14°15 | 1°40 | 24° 7 | 27°12 | 15°44 | 18° 0 | 18°15 | 21°42 | 10°21 | 9°17 | 12°49 | 18°56 | S 25 | | | | |
| S 26 | 6 17 32 | 3°47'26 | 28°41 | 15°39 | 2°56 | 24°40 | 27°24 | 15°50 | 18° 0 | 18°13 | 21°43 | 10°23 | 9°14 | 12°55 | 18°58 | S 26 | | | | |
| M27 | 6 21 29 | 4°48'29 | 13♂24 | 17° 3 | 4°11 | 25°13 | 27°36 | 15°55 | 18° 0 | 18°12 | 21°43 | 10°R23 | 9°11 | 13° 2 | 18°59 | M27 | | | | |
| T 28 | 6 25 25 | 5°49'33 | 28° 4 | 18°29 | 5°27 | 25°46 | 27°48 | 16° 1 | 18° 0 | 18°10 | 21°44 | 10°22 | 9° 8 | 13° 9 | 19° 1 | T 28 | | | | |
| W29 | 6 29 22 | 6°50'38 | 12♂35 | 19°55 | 6°42 | 26°19 | 27°59 | 16° 8 | 17°59 | 18° 9 | 21°44 | 10°20 | 9° 5 | 13°15 | 19° 3 | W29 | | | | |
| T 30 | 6 33 18 | 7°51'43 | 26°50 | 21°22 | 7°58 | 26°52 | 28°11 | 16°14 | 17°59 | 18° 7 | 21°45 | 10°16 | 9° 1 | 13°22 | 19° 4 | T 30 | | | | |
| F 31 | 6 37 15 | 8♂52'48 | 10♄43 | 22♂49 | 9♂13 | 27♄25 | 28♄22 | 16♄20 | 17♄59 | 18♄ 5 | 21♂45 | 10♂12 | 8♂58 | 13♂29 | 19♂ 6 | F 31 | | | | |

Delta T = 17m12s

ASTRODIENST EPHEMERIS for the year 2552
geocentric

JULY 2552

00:00 UT

Table with 17 columns: Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♅, ♁, ♃, ♅, Day. It lists astronomical data for each day of July 2552.

Delta T = 17m14s

AUGUST 2552

00:00 UT

Table with 17 columns: Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♅, ♁, ♃, ♅, Day. It lists astronomical data for each day of August 2552.

Delta T = 17m14s

ASTRODIENST EPHEMERIS for the year 2552
geocentric

NOVEMBER 2552

00:00 UT

Table with columns: Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♁, ♁, ♁, ♁, ♁, ♁, Day. Rows 1-30 for November 2552.

Delta T = 17m15s

DECEMBER 2552

00:00 UT

Table with columns: Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♁, ♁, ♁, ♁, ♁, ♁, Day. Rows 1-31 for December 2552.

Delta T = 17m16s

ASTRODIENST EPHEMERIS for the year 2553
geocentric

JANUARY 2553

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|------|---|---|---|---|-----|
| M 1 | 6 44 11 | 10♁00'00 | 9♄ 1 | 6♁28 | 23♎56 | 5♁52 | 23♁12 | 26♁59 | 22°R47 | 20°R21 | 23♁ 0 | 21°R17 | 19♎32 | 24♎10 | 23♁ 3 | M 1 | | | | | |
| T 2 | 6 48 7 | 11°41'05 | 20°57 | 8° 2 | 24°59 | 6°38 | 23°25 | 27° 4 | 22♎47 | 20♎19 | 23° 1 | 21♎ 8 | 19°29 | 24°16 | 23° 4 | T 2 | | | | | |
| W 3 | 6 52 4 | 12°42'10 | 3♁ 0 | 9°37 | 26° 3 | 7°25 | 23°38 | 27°10 | 22°47 | 20°18 | 23° 1 | 20°57 | 19°26 | 24°23 | 23° 6 | W 3 | | | | | |
| T 4 | 6 56 0 | 13°43'15 | 15°10 | 11°11 | 27° 7 | 8°11 | 23°51 | 27°16 | 22°46 | 20°16 | 23° 2 | 20°47 | 19°23 | 24°30 | 23° 8 | T 4 | | | | | |
| F 5 | 6 59 57 | 14°44'21 | 27°29 | 12°47 | 28°11 | 8°57 | 24° 4 | 27°22 | 22°46 | 20°15 | 23° 3 | 20°37 | 19°19 | 24°36 | 23°10 | F 5 | | | | | |
| S 6 | 7 3 53 | 15°45'27 | 9♎59 | 14°22 | 29°15 | 9°43 | 24°17 | 27°28 | 22°45 | 20°13 | 23° 3 | 20°30 | 19°16 | 24°43 | 23°11 | S 6 | | | | | |
| S 7 | 7 7 50 | 16°46'33 | 22°41 | 15°58 | 0♁20 | 10°29 | 24°30 | 27°34 | 22°45 | 20°12 | 23° 4 | 20°24 | 19°13 | 24°50 | 23°13 | S 7 | | | | | |
| M 8 | 7 11 47 | 17°47'40 | 5♁39 | 17°34 | 1°25 | 11°15 | 24°43 | 27°40 | 22°44 | 20°10 | 23° 5 | 20°21 | 19°10 | 24°56 | 23°15 | M 8 | | | | | |
| T 9 | 7 15 43 | 18°48'48 | 18°55 | 19°10 | 2°31 | 12° 1 | 24°56 | 27°46 | 22°44 | 20° 9 | 23° 6 | 20°D20 | 19° 7 | 25° 3 | 23°17 | T 9 | | | | | |
| W10 | 7 19 40 | 19°49'56 | 2♎32 | 20°47 | 3°36 | 12°47 | 25° 9 | 27°52 | 22°43 | 20° 7 | 23° 7 | 20°21 | 19° 4 | 25°10 | 23°19 | W10 | | | | | |
| T 11 | 7 23 36 | 20°51'04 | 16°31 | 22°24 | 4°42 | 13°33 | 25°22 | 27°58 | 22°42 | 20° 6 | 23° 7 | 20°R22 | 19° 0 | 25°16 | 23°21 | T 11 | | | | | |
| F 12 | 7 27 33 | 21°52'13 | 0♁54 | 24° 1 | 5°48 | 14°19 | 25°35 | 28° 5 | 22°41 | 20° 4 | 23° 8 | 20°21 | 18°57 | 25°23 | 23°24 | F 12 | | | | | |
| S 13 | 7 31 29 | 22°53'22 | 15°38 | 25°39 | 6°55 | 15° 5 | 25°48 | 28°11 | 22°40 | 20° 3 | 23° 9 | 20°19 | 18°54 | 25°30 | 23°26 | S 13 | | | | | |
| S 14 | 7 35 26 | 23°54'32 | 0♁38 | 27°17 | 8° 1 | 15°51 | 26° 0 | 28°17 | 22°39 | 20° 2 | 23°10 | 20°14 | 18°51 | 25°36 | 23°28 | S 14 | | | | | |
| M15 | 7 39 22 | 24°55'41 | 15°46 | 28°55 | 9° 8 | 16°37 | 26°13 | 28°24 | 22°38 | 20° 0 | 23°11 | 20° 6 | 18°48 | 25°43 | 23°30 | M15 | | | | | |
| T 16 | 7 43 19 | 25°56'51 | 0♁53 | 0♁34 | 10°15 | 17°23 | 26°26 | 28°30 | 22°37 | 19°59 | 23°12 | 19°56 | 18°45 | 25°50 | 23°33 | T 16 | | | | | |
| W17 | 7 47 16 | 26°58'00 | 15°48 | 2°13 | 11°22 | 18°10 | 26°38 | 28°36 | 22°36 | 19°58 | 23°13 | 19°45 | 18°41 | 25°56 | 23°35 | W17 | | | | | |
| T 18 | 7 51 12 | 27°59'09 | 0♁32 | 3°52 | 12°30 | 18°56 | 26°51 | 28°43 | 22°35 | 19°56 | 23°14 | 19°35 | 18°38 | 26° 3 | 23°38 | T 18 | | | | | |
| F 19 | 7 55 9 | 29° 0'17 | 14°30 | 5°32 | 13°37 | 19°42 | 27° 3 | 28°49 | 22°34 | 19°55 | 23°15 | 19°26 | 18°35 | 26°10 | 23°40 | F 19 | | | | | |
| S 20 | 7 59 5 | 0♁ 1'25 | 28° 8 | 7°12 | 14°45 | 20°28 | 27°16 | 28°56 | 22°33 | 19°54 | 23°16 | 19°19 | 18°32 | 26°16 | 23°43 | S 20 | | | | | |
| S 21 | 8 3 2 | 1° 2'32 | 11♎16 | 8°53 | 15°53 | 21°14 | 27°28 | 29° 3 | 22°32 | 19°53 | 23°17 | 19°15 | 18°29 | 26°23 | 23°45 | S 21 | | | | | |
| M22 | 8 6 58 | 2° 3'39 | 23°59 | 10°34 | 17° 1 | 22° 0 | 27°40 | 29° 9 | 22°30 | 19°52 | 23°18 | 19°13 | 18°25 | 26°30 | 23°48 | M22 | | | | | |
| T 23 | 8 10 55 | 3° 4'45 | 6♁20 | 12°14 | 18°10 | 22°46 | 27°52 | 29°16 | 22°29 | 19°50 | 23°19 | 19°D13 | 18°22 | 26°36 | 23°50 | T 23 | | | | | |
| W24 | 8 14 51 | 4° 5'51 | 18°24 | 13°55 | 19°18 | 23°31 | 28° 5 | 29°23 | 22°27 | 19°49 | 23°20 | 19°R13 | 18°19 | 26°43 | 23°53 | W24 | | | | | |
| T 25 | 8 18 48 | 5° 6'56 | 0♎18 | 15°36 | 20°27 | 24°17 | 28°17 | 29°30 | 22°26 | 19°48 | 23°21 | 19°13 | 18°16 | 26°50 | 23°56 | T 25 | | | | | |
| F 26 | 8 22 45 | 6° 8'00 | 12° 6 | 17°17 | 21°35 | 25° 3 | 28°29 | 29°36 | 22°24 | 19°47 | 23°23 | 19°10 | 18°13 | 26°56 | 23°58 | F 26 | | | | | |
| S 27 | 8 26 41 | 7° 9'03 | 23°54 | 18°58 | 22°44 | 25°49 | 28°41 | 29°43 | 22°23 | 19°46 | 23°24 | 19° 6 | 18°10 | 27° 3 | 24° 1 | S 27 | | | | | |
| S 28 | 8 30 38 | 8°10'06 | 5♁44 | 20°39 | 23°53 | 26°35 | 28°53 | 29°50 | 22°21 | 19°45 | 23°25 | 18°58 | 18° 6 | 27°10 | 24° 4 | S 28 | | | | | |
| M29 | 8 34 34 | 9°11'08 | 17°40 | 22°19 | 25° 3 | 27°21 | 29° 4 | 29°57 | 22°20 | 19°44 | 23°26 | 18°47 | 18° 3 | 27°16 | 24° 7 | M29 | | | | | |
| T 30 | 8 38 31 | 10°12'10 | 29°45 | 23°58 | 26°12 | 28° 7 | 29°16 | 0♁ 4 | 22°18 | 19°43 | 23°27 | 18°34 | 18° 0 | 27°23 | 24°10 | T 30 | | | | | |
| W31 | 8 42 27 | 11°13'10 | 12♁ 0 | 25°37 | 27°21 | 28°53 | 29°28 | 0♁11 | 22♎16 | 19♎42 | 23♁29 | 18♎20 | 17♎57 | 27♎30 | 24♁13 | W31 | | | | | |

Delta T = 17m16s

FEBRUARY 2553

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|--------|--------|-------|--------|-------|-------|-------|------|---|---|---|---|-----|
| T 1 | 8 46 24 | 12°14'10 | 24♁24 | 27°14 | 28°21 | 29°38 | 29°24 | 0♁18 | 22°R14 | 19°R41 | 23♁30 | 18°R 5 | 17♎54 | 27♎36 | 24♁16 | T 1 | | | | | |
| F 2 | 8 50 20 | 13°15'09 | 6♎59 | 28°49 | 29°41 | 0♁24 | 29°51 | 0°25 | 22♎13 | 19♎40 | 23°31 | 17♎52 | 17°51 | 27°43 | 24°19 | F 2 | | | | | |
| S 3 | 8 54 17 | 14°16'08 | 19°44 | 0♁23 | 0♁51 | 1°10 | 0°32 | 0°32 | 22°11 | 19°40 | 23°32 | 17°41 | 17°47 | 27°50 | 24°22 | S 3 | | | | | |
| S 4 | 8 58 14 | 15°17'06 | 2♁40 | 1°55 | 2° 1 | 1°55 | 0°14 | 0°39 | 22° 9 | 19°39 | 23°34 | 17°33 | 17°44 | 27°57 | 24°25 | S 4 | | | | | |
| M 5 | 9 2 10 | 16°18'03 | 15°48 | 3°23 | 3°11 | 2°41 | 0°25 | 0°46 | 22° 7 | 19°38 | 23°35 | 17°28 | 17°41 | 28° 3 | 24°28 | M 5 | | | | | |
| T 6 | 9 6 7 | 17°19'00 | 29° 8 | 4°48 | 4°21 | 3°27 | 0°37 | 0°53 | 22° 5 | 19°37 | 23°36 | 17°25 | 17°38 | 28°10 | 24°31 | T 6 | | | | | |
| W 7 | 9 10 3 | 18°19'56 | 12♎43 | 6°10 | 5°31 | 4°12 | 0°48 | 1° 0 | 22° 3 | 19°36 | 23°38 | 17°25 | 17°35 | 28°17 | 24°34 | W 7 | | | | | |
| T 8 | 9 14 0 | 19°20'52 | 26°33 | 7°26 | 6°42 | 4°58 | 0°59 | 1° 7 | 22° 1 | 19°36 | 23°39 | 17°24 | 17°31 | 28°23 | 24°37 | T 8 | | | | | |
| F 9 | 9 17 56 | 20°21'47 | 10♁40 | 8°37 | 7°52 | 5°44 | 1°10 | 1°14 | 21°59 | 19°35 | 23°40 | 17°24 | 17°28 | 28°30 | 24°41 | F 9 | | | | | |
| S 10 | 9 21 53 | 21°22'41 | 25° 3 | 9°42 | 9° 3 | 6°29 | 1°21 | 1°21 | 21°57 | 19°34 | 23°42 | 17°21 | 17°25 | 28°37 | 24°44 | S 10 | | | | | |
| S 11 | 9 25 49 | 22°23'35 | 9♁40 | 10°40 | 10°14 | 7°15 | 1°32 | 1°28 | 21°54 | 19°34 | 23°43 | 17°15 | 17°22 | 28°43 | 24°47 | S 11 | | | | | |
| M12 | 9 29 46 | 23°24'27 | 24°25 | 11°30 | 11°24 | 8° 0 | 1°42 | 1°36 | 21°52 | 19°33 | 23°44 | 17° 6 | 17°19 | 28°50 | 24°51 | M12 | | | | | |
| T 13 | 9 33 43 | 24°25'19 | 9♁11 | 12°12 | 12°35 | 8°46 | 1°53 | 1°43 | 21°50 | 19°33 | 23°46 | 16°55 | 17°16 | 28°57 | 24°54 | T 13 | | | | | |
| W14 | 9 37 39 | 25°26'10 | 23°51 | 12°44 | 13°46 | 9°31 | 2° 4 | 1°50 | 21°48 | 19°32 | 23°47 | 16°43 | 17°12 | 29° 3 | 24°57 | W14 | | | | | |
| T 15 | 9 41 36 | 26°26'59 | 8♁16 | 13° 7 | 14°57 | 10°16 | 2°14 | 1°57 | 21°46 | 19°32 | 23°49 | 16°31 | 17° 9 | 29°10 | 25° 1 | T 15 | | | | | |
| F 16 | 9 45 32 | 27°27'48 | 22°20 | 13°19 | 16° 8 | 11° 2 | 2°24 | 2° 4 | 21°43 | 19°31 | 23°50 | 16°21 | 17° 6 | 29°17 | 25° 4 | F 16 | | | | | |
| S 17 | 9 49 29 | 28°28'34 | 5♎58 | 13°R20 | 17°20 | 11°47 | 2°35 | 2°11 | 21°41 | 19°31 | 23°52 | 16°12 | 17° 3 | 29°23 | 25° 7 | S 17 | | | | | |
| S 18 | 9 53 25 | 29°29'20 | 19°10 | 13°10 | 18°31 | 12°33 | 2°45 | 2°19 | 21°39 | 19°31 | 23°53 | 16° 7 | 17° 0 | 29°30 | 25°11 | S 18 | | | | | |
| M19 | 9 57 22 | 0♁30'04 | 1♁56 | 12°50 | 19°42 | 13°18 | 2°55 | 2°26 | 21°36 | 19°30 | 23°55 | 16° 4 | 16°56 | 29°37 | 25°14 | M19 | | | | | |
| T 20 | 10 1 18 | 1°30'46 | 14°21 | 12°19 | 20°54 | 14° 3 | 3° 5 | 2°33 | 21°34 | 19°30 | 23°56 | 16°D 3 | 16°53 | 29°43 | 25°18 | T 20 | | | | | |
| W21 | 10 5 15 | 2°31'27 | 26°29 | 11°39 | 22° 5 | 14°48 | 3°15 | 2°40 | 21°31 | 19°30 | 23°58 | 16°R 4 | 16°50 | 29°50 | 25°21 | W21 | | | | | |
| T 22 | 10 9 12 | 3°32'07 | 8♎25 | 10°50 | 23°17 | 15°33 | 3°24 | 2°47 | 21°29 | 19°29 | 23°59 | 16° 4 | 16°47 | 29°57 | 25°25 | T 22 | | | | | |
| F 23 | 10 13 8 | 4°32'44 | 20°15 | 9°54 | 24°28 | 16°19 | 3°34 | 2°55 | 21°26 | 19°29 | 24° 1 | 16° 2 | 16°44 | 0♁ 3 | 25°28 | F 23 | | | | | |
| S 24 | 10 17 5 | 5°33'21 | 2♁ 3 | 8°52 | 25°40 | 17° 4 | 3°44 | 3° 2 | 21°24 | 19°29 | 24° 2 | 15°59 | 16°41 | 0°10 | 25°32 | S 24 | | | | | |
| S 25 | 10 21 1 | 6°33'55 | 13°56 | 7°46 | 26°52 | 17°49 | 3°53 | 3° 9 | 21°21 | 19°29 | 24° 4 | 15°53 | 16°37 | 0°17 | 25°36 | S 25 | | | | | |
| M26 | 10 24 58 | 7°34'28 | 25°57 | 6°38 | 28° 3 | 18°34 | 4° 2 | 3°16 | 21°19 | 19°29 | 24° 5 | 15°44 | 16°34 | 0°23 | 25°39 | M26 | | | | | |
| T 27 | 10 28 54 | 8°34'59 | 8♁ 9 | 5°30 | 29°15 | 19°19 | 4°11 | 3°23 | 21°16 | 19°29 | 24° 7 | 15°34 | 16°31 | 0°30 | 25°43 | T 27 | | | | | |
| W28 | 10 32 51 | 9°35'28 | 20♁34 | 4♁23 | 0♁27 | 20♎ 4 | 4°20 | 3°31 | 21♎14 | 19°D29 | 24♁ 8 | 15♎22 | 16♎28 | 0♁37 | 25♁46 | W28 | | | | | |

Delta T = 17m16s

ASTRODIENST EPHEMERIS for the year 2553
geocentric

MAY 2553

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|------|---|---|-----|
| T 1 | 14 37 17 | 11♌ 7'20 | 29♍ 5 | 5♃42 | 15♄41 | 5♅ 7 | 8°R48 | 9♁58 | 18°R55 | 20♑30 | 25♒40 | 13♎ 0 | 13♎11 | 7♃32 | 29♒26 | T 1 | | | |
| W 2 | 14 41 14 | 12° 5'50 | 13♌44 | 7°46 | 16°54 | 5°49 | 8♃47 | 10° 2 | 18♎54 | 20°32 | 25°41 | 13° 0 | 13° 8 | 7°38 | 29°29 | W 2 | | | |
| T 3 | 14 45 10 | 13° 4'19 | 28°24 | 9°51 | 18° 7 | 6°31 | 8°45 | 10° 7 | 18°52 | 20°34 | 25°43 | 13°R 0 | 13° 5 | 7°45 | 29°32 | T 3 | | | |
| F 4 | 14 49 7 | 14° 2'46 | 12♃59 | 11°57 | 19°20 | 7°13 | 8°44 | 10°11 | 18°51 | 20°35 | 25°44 | 13° 0 | 13° 1 | 7°52 | 29°35 | F 4 | | | |
| S 5 | 14 53 3 | 15° 1'11 | 27°25 | 14° 5 | 20°34 | 7°55 | 8°42 | 10°16 | 18°50 | 20°37 | 25°45 | 13° 0 | 12°58 | 7°58 | 29°38 | S 5 | | | |
| S 6 | 14 57 0 | 15°59'35 | 11♌38 | 16°13 | 21°47 | 8°37 | 8°40 | 10°20 | 18°49 | 20°39 | 25°46 | 13°D 0 | 12°55 | 8° 5 | 29°41 | S 6 | | | |
| M 7 | 15 0 56 | 16°57'57 | 25°35 | 18°21 | 23° 0 | 9°19 | 8°38 | 10°24 | 18°48 | 20°41 | 25°47 | 13° 0 | 12°52 | 8°12 | 29°43 | M 7 | | | |
| T 8 | 15 4 53 | 17°56'17 | 9♁15 | 20°31 | 24°13 | 10° 1 | 8°35 | 10°28 | 18°47 | 20°43 | 25°48 | 13° 0 | 12°49 | 8°18 | 29°46 | T 8 | | | |
| W 9 | 15 8 50 | 18°54'37 | 22°40 | 22°40 | 25°27 | 10°43 | 8°33 | 10°32 | 18°46 | 20°45 | 25°49 | 13° 1 | 12°45 | 8°25 | 29°49 | W 9 | | | |
| T 10 | 15 12 46 | 19°52'54 | 5♂49 | 24°49 | 26°40 | 11°25 | 8°30 | 10°36 | 18°45 | 20°47 | 25°50 | 13° 1 | 12°42 | 8°32 | 29°52 | T 10 | | | |
| F 11 | 15 16 43 | 20°51'10 | 18°44 | 26°58 | 27°53 | 12° 7 | 8°27 | 10°40 | 18°44 | 20°49 | 25°51 | 13° 2 | 12°39 | 8°39 | 29°54 | F 11 | | | |
| S 12 | 15 20 39 | 21°49'25 | 1♃26 | 29° 6 | 29° 6 | 12°48 | 8°24 | 10°44 | 18°44 | 20°51 | 25°52 | 13° 3 | 12°36 | 8°45 | 29°57 | S 12 | | | |
| S 13 | 15 24 36 | 22°47'38 | 13°55 | 1♒13 | 0♃20 | 13°30 | 8°21 | 10°48 | 18°43 | 20°53 | 25°53 | 13°R 3 | 12°33 | 8°52 | 29°59 | S 13 | | | |
| M14 | 15 28 32 | 23°45'49 | 26°13 | 3°19 | 1°33 | 14°12 | 8°17 | 10°51 | 18°42 | 20°55 | 25°54 | 13° 2 | 12°30 | 8°59 | 0♂ 2 | M14 | | | |
| T 15 | 15 32 29 | 24°43'59 | 8♒22 | 5°24 | 2°46 | 14°53 | 8°14 | 10°55 | 18°42 | 20°57 | 25°55 | 13° 2 | 12°26 | 9° 5 | 0° 4 | T 15 | | | |
| W16 | 15 36 25 | 25°42'07 | 20°23 | 7°26 | 3°59 | 15°35 | 8°10 | 10°58 | 18°41 | 20°59 | 25°56 | 13° 0 | 12°23 | 9°12 | 0° 7 | W16 | | | |
| T 17 | 15 40 22 | 26°40'13 | 2♃17 | 9°26 | 5°13 | 16°16 | 8° 6 | 11° 2 | 18°41 | 21° 1 | 25°57 | 12°58 | 12°20 | 9°19 | 0° 9 | T 17 | | | |
| F 18 | 15 44 19 | 27°38'17 | 14° 9 | 11°25 | 6°26 | 16°58 | 8° 2 | 11° 5 | 18°40 | 21° 3 | 25°58 | 12°56 | 12°17 | 9°25 | 0°12 | F 18 | | | |
| S 19 | 15 48 15 | 28°36'20 | 26° 0 | 13°20 | 7°39 | 17°39 | 7°58 | 11° 8 | 18°40 | 21° 5 | 25°59 | 12°54 | 12°14 | 9°32 | 0°14 | S 19 | | | |
| S 20 | 15 52 12 | 29°34'21 | 7♎54 | 15°13 | 8°52 | 18°21 | 7°53 | 11°12 | 18°39 | 21° 8 | 26° 0 | 12°52 | 12°10 | 9°39 | 0°16 | S 20 | | | |
| M21 | 15 56 8 | 0♑32'19 | 19°55 | 17° 3 | 10° 6 | 19° 2 | 7°49 | 11°15 | 18°39 | 21°10 | 26° 0 | 12°51 | 12° 7 | 9°46 | 0°18 | M21 | | | |
| T 22 | 16 0 5 | 1°30'17 | 2♎ 8 | 18°50 | 11°19 | 19°43 | 7°44 | 11°18 | 18°39 | 21°12 | 26° 1 | 12°D51 | 12° 4 | 9°52 | 0°21 | T 22 | | | |
| W23 | 16 4 1 | 2°28'12 | 14°37 | 20°33 | 12°32 | 20°25 | 7°39 | 11°21 | 18°39 | 21°14 | 26° 2 | 12°51 | 12° 1 | 9°59 | 0°23 | W23 | | | |
| T 24 | 16 7 58 | 3°26'05 | 27°26 | 22°14 | 13°45 | 21° 6 | 7°34 | 11°23 | 18°38 | 21°16 | 26° 3 | 12°52 | 11°58 | 10° 6 | 0°25 | T 24 | | | |
| F 25 | 16 11 54 | 4°23'57 | 10♌38 | 23°51 | 14°59 | 21°47 | 7°29 | 11°26 | 18°38 | 21°18 | 26° 3 | 12°54 | 11°55 | 10°12 | 0°27 | F 25 | | | |
| S 26 | 16 15 51 | 5°21'47 | 24°17 | 25°25 | 16°12 | 22°28 | 7°24 | 11°29 | 18°D38 | 21°20 | 26° 4 | 12°55 | 11°51 | 10°19 | 0°29 | S 26 | | | |
| S 27 | 16 19 48 | 6°19'36 | 8♍22 | 26°55 | 17°25 | 23° 9 | 7°18 | 11°31 | 18°38 | 21°23 | 26° 5 | 12°R56 | 11°48 | 10°26 | 0°31 | S 27 | | | |
| M28 | 16 23 44 | 7°17'23 | 22°51 | 28°22 | 18°39 | 23°50 | 7°13 | 11°34 | 18°38 | 21°25 | 26° 6 | 12°55 | 11°45 | 10°32 | 0°33 | M28 | | | |
| T 29 | 16 27 41 | 8°15'09 | 7♁39 | 29°45 | 19°52 | 24°31 | 7° 7 | 11°36 | 18°39 | 21°27 | 26° 6 | 12°54 | 11°42 | 10°39 | 0°35 | T 29 | | | |
| W30 | 16 31 37 | 9°12'53 | 22°40 | 1♃ 5 | 21° 5 | 25°12 | 7° 1 | 11°38 | 18°39 | 21°29 | 26° 7 | 12°51 | 11°39 | 10°46 | 0°37 | W30 | | | |
| T 31 | 16 35 34 | 10♒10'36 | 7♃45 | 2♃21 | 22♌18 | 25♒53 | 6♃55 | 11♁40 | 18♎39 | 21♒31 | 26♁ 8 | 12♎48 | 11♎36 | 10♃53 | 0♂38 | T 31 | | | |

Delta T = 17m17s

JUNE 2553

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|------|------|---|---|-----|
| F 1 | 16 39 30 | 11♒ 8'18 | 22♃44 | 3♃33 | 23♌32 | 26♒34 | 6°R49 | 11♁42 | 18♎39 | 21♒34 | 26♁ 8 | 12°R44 | 11♎32 | 10♃59 | 0♂40 | F 1 | | | |
| S 2 | 16 43 27 | 12° 5'59 | 7♃29 | 4°42 | 24°45 | 27°15 | 6♃43 | 11°44 | 18°40 | 21°36 | 26° 9 | 12♎41 | 11°29 | 11° 6 | 0°42 | S 2 | | | |
| S 3 | 16 47 23 | 13° 3'38 | 21°55 | 5°47 | 25°58 | 27°56 | 6°37 | 11°46 | 18°40 | 21°38 | 26° 9 | 12°38 | 11°26 | 11°13 | 0°43 | S 3 | | | |
| M 4 | 16 51 20 | 14° 1'17 | 5♁57 | 6°48 | 27°12 | 28°36 | 6°30 | 11°48 | 18°41 | 21°40 | 26°10 | 12°36 | 11°23 | 11°19 | 0°45 | M 4 | | | |
| T 5 | 16 55 17 | 14°58'55 | 19°36 | 7°45 | 28°25 | 29°17 | 6°24 | 11°50 | 18°41 | 21°42 | 26°10 | 12°D36 | 11°20 | 11°26 | 0°47 | T 5 | | | |
| W 6 | 16 59 13 | 15°56'32 | 2♂52 | 8°38 | 29°38 | 29°58 | 6°17 | 11°51 | 18°42 | 21°45 | 26°11 | 12°37 | 11°16 | 11°33 | 0°48 | W 6 | | | |
| T 7 | 17 7 31 | 16°54'08 | 15°48 | 9°27 | 0♑52 | 0♃39 | 6°10 | 11°53 | 18°42 | 21°47 | 26°11 | 12°39 | 11°13 | 11°40 | 0°49 | T 7 | | | |
| F 8 | 17 17 6 | 17°51'43 | 28°26 | 10°12 | 2° 5 | 1°19 | 6° 3 | 11°54 | 18°43 | 21°49 | 26°12 | 12°40 | 11°10 | 11°46 | 0°51 | F 8 | | | |
| S 9 | 17 11 3 | 18°49'18 | 10♌51 | 10°53 | 3°18 | 2° 0 | 5°56 | 11°55 | 18°44 | 21°51 | 26°12 | 12°R41 | 11° 7 | 11°53 | 0°52 | S 9 | | | |
| S 10 | 17 14 59 | 19°46'51 | 23° 5 | 11°29 | 4°32 | 2°40 | 5°49 | 11°57 | 18°44 | 21°54 | 26°12 | 12°40 | 11° 4 | 12° 0 | 0°54 | S 10 | | | |
| M11 | 17 18 56 | 20°44'24 | 5♒10 | 12° 1 | 5°45 | 3°21 | 5°42 | 11°58 | 18°45 | 21°56 | 26°13 | 12°38 | 11° 1 | 12° 6 | 0°55 | M11 | | | |
| T 12 | 17 22 52 | 21°41'55 | 17° 9 | 12°28 | 6°58 | 4° 1 | 5°35 | 11°59 | 18°46 | 21°58 | 26°13 | 12°34 | 10°57 | 12°13 | 0°56 | T 12 | | | |
| W13 | 17 26 49 | 22°39'26 | 29° 3 | 12°51 | 8°12 | 4°42 | 5°28 | 12° 0 | 18°47 | 22° 0 | 26°13 | 12°28 | 10°54 | 12°20 | 0°57 | W13 | | | |
| T 14 | 17 30 46 | 23°36'56 | 10♃55 | 13°10 | 9°25 | 5°22 | 5°21 | 12° 1 | 18°48 | 22° 3 | 26°14 | 12°21 | 10°51 | 12°26 | 0°58 | T 14 | | | |
| F 15 | 17 34 42 | 24°34'24 | 22°46 | 13°24 | 10°38 | 6° 2 | 5°13 | 12° 1 | 18°49 | 22° 5 | 26°14 | 12°13 | 10°48 | 12°33 | 0°59 | F 15 | | | |
| S 16 | 17 38 39 | 25°31'52 | 4♎38 | 13°33 | 11°52 | 6°43 | 5° 6 | 12° 2 | 18°50 | 22° 7 | 26°14 | 12° 5 | 10°45 | 12°40 | 1° 0 | S 16 | | | |
| S 17 | 17 42 35 | 26°29'19 | 16°34 | 13°38 | 13° 5 | 7°23 | 4°58 | 12° 2 | 18°51 | 22° 9 | 26°14 | 11°58 | 10°42 | 12°47 | 1° 1 | S 17 | | | |
| M18 | 17 46 32 | 27°26'44 | 28°36 | 13°R38 | 14°19 | 8° 3 | 4°51 | 12° 3 | 18°52 | 22°12 | 26°15 | 11°53 | 10°38 | 12°53 | 1° 2 | M18 | | | |
| T 19 | 17 50 28 | 28°24'09 | 10♎48 | 13°34 | 15°32 | 8°44 | 4°43 | 12° 3 | 18°54 | 22°14 | 26°15 | 11°49 | 10°35 | 13° 0 | 1° 3 | T 19 | | | |
| W20 | 17 54 25 | 29°21'32 | 23°14 | 13°25 | 16°45 | 9°24 | 4°36 | 12° 3 | 18°55 | 22°16 | 26°15 | 11°48 | 10°32 | 13° 7 | 1° 4 | W20 | | | |
| T 21 | 17 58 21 | 0♃18'54 | 5♌58 | 13°12 | 17°59 | 10° 4 | 4°28 | 12° 3 | 18°56 | 22°18 | 26°15 | 11°D48 | 10°29 | 13°13 | 1° 4 | T 21 | | | |
| F 22 | 18 2 18 | 1°16'16 | 19° 5 | 12°55 | 19°12 | 10°44 | 4°20 | 12°R 3 | 18°58 | 22°21 | 26°15 | 11°49 | 10°26 | 13°20 | 1° 5 | F 22 | | | |
| S 23 | 18 6 15 | 2°13'36 | 2♎37 | 12°35 | 20°26 | 11°24 | 4°13 | 12° 3 | 18°59 | 22°23 | 26°15 | 11°50 | 10°22 | 13°27 | 1° 5 | S 23 | | | |
| S 24 | 18 10 11 | 3°10'56 | 16°37 | 12°11 | 21°39 | 12° 4 | 4° 5 | 12° 3 | 19° 1 | 22°25 | 26°15 | 11°R50 | 10°19 | 13°34 | 1° 6 | S 24 | | | |
| M25 | 18 14 8 | 4° 8'14 | 1♁ 4 | 11°44 | 22°53 | 12°44 | 3°57 | 12° 3 | 19° 2 | 22°27 | 26°15 | 11°48 | 10°16 | 13°40 | 1° 7 | M25 | | | |
| T 26 | 18 18 4 | 5° 5'32 | 15°56 | 11°14 | 24° 6 | 13°24 | 3°50 | 12° 3 | 19° 4 | 22°29 | 26°R15 | 11°45 | 10°13 | 13°47 | 1° 7 | T 26 | | | |
| W27 | 18 22 1 | 6° 2'50 | 1♃ 6 | 10°43 | 25°19 | 14° 4 | 3°42 | 12° 2 | 19° 5 | 22°32 | 26°15 | 11°39 | 10°10 | 13°54 | 1° 7 | W27 | | | |
| T 28 | 18 25 57 | 7° 0'06 | 16°24 | 10°10 | 26°33 | 14°44 | 3°34 | 12° 2 | 19° 7 | 22°34 | 26°15 | 11°32 | 10° 7 | 14° 0 | 1° 8 | T 28 | | | |
| F 29 | 18 29 54 | 7°57'22 | 1♌38 | 9°35 | 27°46 | 15°24 | 3°27 | 12° 1 | 19° 9 | 22°36 | 26°15 | 11°23 | 10° 3 | 14° 7 | 1° 8 | F 29 | | | |
| S 30 | 18 33 51 | 8♃54'38 | 16♌40 | 9♃ 1 | 29♒ 0 | 16♃ 4 | 3♌19 | 12♁ 0 | 19♎11 | 22♒38 | 26♁15 | 11♎16 | 10♎ 0 | 14♃14 | 1♂ 8 | S 30 | | | |

Delta T = 17m17s

ASTRODIENST EPHEMERIS for the year 2553
geocentric

JULY 2553

00:00 UT

Table with columns: Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♅, ♁, ♁, ♃, ♄, Day. Contains astronomical data for July 2553.

Delta T = 17m18s

AUGUST 2553

00:00 UT

Table with columns: Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♅, ♁, ♁, ♃, ♄, Day. Contains astronomical data for August 2553.

Delta T = 17m18s

ASTRODIENST EPHEMERIS for the year 2553
geocentric

SEPTEMBER 2553

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|----------|--------|-------|-------|-------|-------|-------|-------|--------|--------|-------|------|-------|--------|------|
| S 1 | 22 42 13 | 9♈10'04 | 7♏38 | 22♍3 | 16♍34 | 27♊0 | 29♌4 | 8°R39 | 22♍16 | 24♏21 | 25°R30 | 5°R36 | 6♎40 | 21♎17 | 29°R43 | S 1 |
| S 2 | 22 46 10 | 10° 7'55 | 19°41 | 23°48 | 17°48 | 27°38 | 29° 6 | 8♋35 | 22°20 | 24°22 | 25♋29 | 5♎35 | 6°37 | 21°23 | 29♋40 | S 2 |
| M 3 | 22 50 7 | 11° 5'47 | 1♋36 | 25°31 | 19° 3 | 28°16 | 29° 7 | 8°30 | 22°24 | 24°23 | 25°27 | 5°33 | 6°34 | 21°30 | 29°38 | M 3 |
| T 4 | 22 54 3 | 12° 3'41 | 13°28 | 27°12 | 20°17 | 28°55 | 29° 9 | 8°26 | 22°27 | 24°24 | 25°26 | 5°28 | 6°31 | 21°37 | 29°35 | T 4 |
| W 5 | 22 58 0 | 13° 1'37 | 25°20 | 28°53 | 21°31 | 29°33 | 29°11 | 8°21 | 22°31 | 24°24 | 25°25 | 5°22 | 6°27 | 21°44 | 29°32 | W 5 |
| T 6 | 23 1 56 | 13°59'34 | 7♎16 | 0♉32 | 22°45 | 0♈11 | 29°13 | 8°17 | 22°35 | 24°25 | 25°24 | 5°14 | 6°24 | 21°50 | 29°30 | T 6 |
| F 7 | 23 5 53 | 14°57'33 | 19°19 | 2°10 | 24° 0 | 0°49 | 29°15 | 8°12 | 22°39 | 24°26 | 25°23 | 5° 4 | 6°21 | 21°57 | 29°27 | F 7 |
| S 8 | 23 9 49 | 15°55'34 | 1♎31 | 3°46 | 25°14 | 1°28 | 29°17 | 8° 8 | 22°42 | 24°26 | 25°21 | 4°55 | 6°18 | 22° 4 | 29°24 | S 8 |
| S 9 | 23 13 46 | 16°53'36 | 13°53 | 5°21 | 26°28 | 2° 6 | 29°20 | 8° 3 | 22°46 | 24°27 | 25°20 | 4°47 | 6°15 | 22°10 | 29°22 | S 9 |
| M10 | 23 17 42 | 17°51'40 | 26°25 | 6°55 | 27°43 | 2°44 | 29°22 | 7°59 | 22°50 | 24°28 | 25°19 | 4°40 | 6°11 | 22°17 | 29°19 | M10 |
| T 11 | 23 21 39 | 18°49'45 | 9♎ 9 | 8°28 | 28°57 | 3°22 | 29°25 | 7°55 | 22°54 | 24°28 | 25°18 | 4°35 | 6° 8 | 22°24 | 29°16 | T 11 |
| W12 | 23 25 36 | 19°47'52 | 22° 5 | 10° 0 | 0♌11 | 4° 0 | 29°28 | 7°50 | 22°58 | 24°29 | 25°16 | 4°32 | 6° 5 | 22°31 | 29°14 | W12 |
| T 13 | 23 29 32 | 20°46'00 | 5♎12 | 11°30 | 1°25 | 4°38 | 29°32 | 7°46 | 23° 1 | 24°29 | 25°15 | 4°D31 | 6° 2 | 22°37 | 29°11 | T 13 |
| F 14 | 23 33 29 | 21°44'10 | 18°32 | 12°59 | 2°40 | 5°17 | 29°35 | 7°42 | 23° 5 | 24°30 | 25°14 | 4°32 | 5°59 | 22°44 | 29° 8 | F 14 |
| S 15 | 23 37 25 | 22°42'22 | 2♌ 5 | 14°26 | 3°54 | 5°55 | 29°39 | 7°37 | 23° 9 | 24°30 | 25°13 | 4°33 | 5°56 | 22°51 | 29° 5 | S 15 |
| S 16 | 23 41 22 | 23°40'35 | 15°53 | 15°53 | 5° 8 | 6°33 | 29°43 | 7°33 | 23°13 | 24°30 | 25°12 | 4°34 | 5°52 | 22°58 | 29° 3 | S 16 |
| M17 | 23 45 18 | 24°38'49 | 29°54 | 17°18 | 6°23 | 7°11 | 29°47 | 7°29 | 23°16 | 24°31 | 25°10 | 4°R34 | 5°49 | 23° 4 | 29° 0 | M17 |
| T 18 | 23 49 15 | 25°37'05 | 14♌ 9 | 18°41 | 7°37 | 7°49 | 29°51 | 7°25 | 23°20 | 24°31 | 25° 9 | 4°33 | 5°46 | 23°11 | 28°57 | T 18 |
| W19 | 23 53 11 | 26°35'22 | 28°35 | 20° 4 | 8°51 | 8°27 | 29°55 | 7°20 | 23°24 | 24°31 | 25° 8 | 4°30 | 5°43 | 23°18 | 28°54 | W19 |
| T 20 | 23 57 8 | 27°33'41 | 13♌ 9 | 21°25 | 10° 6 | 9° 5 | 29°59 | 7°16 | 23°28 | 24°32 | 25° 7 | 4°25 | 5°40 | 23°24 | 28°51 | T 20 |
| F 21 | 0 1 5 | 28°32'01 | 27°45 | 22°44 | 11°20 | 9°43 | 0♌ 4 | 7°12 | 23°32 | 24°32 | 25° 5 | 4°20 | 5°37 | 23°31 | 28°49 | F 21 |
| S 22 | 0 5 1 | 29°30'23 | 12♋16 | 24° 2 | 12°34 | 10°21 | 0° 9 | 7° 8 | 23°35 | 24°32 | 25° 4 | 4°15 | 5°33 | 23°38 | 28°46 | S 22 |
| S 23 | 0 8 58 | 0♉28'46 | 26°37 | 25°19 | 13°49 | 10°59 | 0°14 | 7° 4 | 23°39 | 24°32 | 25° 3 | 4°10 | 5°30 | 23°45 | 28°43 | S 23 |
| M24 | 0 12 54 | 1°27'11 | 10°♏41 | 26°34 | 15° 3 | 11°37 | 0°19 | 7° 0 | 23°43 | 24°32 | 25° 2 | 4° 7 | 5°27 | 23°51 | 28°40 | M24 |
| T 25 | 0 16 51 | 2°25'39 | 24°24 | 27°47 | 16°17 | 12°15 | 0°25 | 6°57 | 23°47 | 24°32 | 25° 0 | 4° 5 | 5°24 | 23°58 | 28°37 | T 25 |
| W26 | 0 20 47 | 3°24'08 | 7♌44 | 28°58 | 17°31 | 12°53 | 0°30 | 6°53 | 23°50 | 24°32 | 24°59 | 4°D 5 | 5°21 | 24° 5 | 28°35 | W26 |
| T 27 | 0 24 44 | 4°22'39 | 20°42 | 0♎ 8 | 18°46 | 13°31 | 0°36 | 6°49 | 23°54 | 24°R32 | 24°58 | 4° 6 | 5°17 | 24°11 | 28°32 | T 27 |
| F 28 | 0 28 40 | 5°21'12 | 3♏18 | 1°16 | 20° 0 | 14° 9 | 0°41 | 6°45 | 23°58 | 24°32 | 24°57 | 4° 7 | 5°14 | 24°18 | 28°29 | F 28 |
| S 29 | 0 32 37 | 6°19'48 | 15°38 | 2°22 | 21°14 | 14°47 | 0°47 | 6°42 | 24° 2 | 24°32 | 24°56 | 4° 9 | 5°11 | 24°25 | 28°26 | S 29 |
| S 30 | 0 36 33 | 7♎18'26 | 27♏43 | 3♎25 | 22♉29 | 15♍25 | 0♌53 | 6♋38 | 24♍ 5 | 24♏32 | 24♋54 | 4♎10 | 5♎ 8 | 24♌32 | 28♋24 | S 30 |

Delta T = 17m18s

OCTOBER 2553

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|---------|----------|-------|--------|-------|-------|------|-------|-------|--------|--------|-------|------|-------|--------|------|
| M 1 | 0 40 30 | 8♎17'06 | 9♎40 | 4♎26 | 23♉43 | 16♍ 2 | 1♌ 0 | 6°R35 | 24♍ 9 | 24°R32 | 24°R53 | 4°R11 | 5♎ 5 | 24♌38 | 28°R21 | M 1 |
| T 2 | 0 44 27 | 9°15'48 | 21°33 | 5°25 | 24°57 | 16°40 | 1° 6 | 6♋31 | 24°13 | 24♏32 | 24♋52 | 4♎10 | 5° 2 | 24°45 | 28♋18 | T 2 |
| W 3 | 0 48 23 | 10°14'32 | 3♎26 | 6°21 | 26°12 | 17°18 | 1°13 | 6°28 | 24°16 | 24°32 | 24°51 | 4° 8 | 4°58 | 24°52 | 28°15 | W 3 |
| T 4 | 0 52 20 | 11°13'19 | 15°25 | 7°14 | 27°26 | 17°56 | 1°19 | 6°25 | 24°20 | 24°32 | 24°50 | 4° 5 | 4°55 | 24°58 | 28°13 | T 4 |
| F 5 | 0 56 16 | 12°12'07 | 27°32 | 8° 4 | 28°40 | 18°34 | 1°26 | 6°21 | 24°24 | 24°31 | 24°48 | 4° 2 | 4°52 | 25° 5 | 28°10 | F 5 |
| S 6 | 1 0 13 | 13°10'58 | 9♎51 | 8°51 | 29°55 | 19°12 | 1°33 | 6°18 | 24°27 | 24°31 | 24°47 | 3°59 | 4°49 | 25°12 | 28° 7 | S 6 |
| S 7 | 1 4 9 | 14° 9'51 | 22°24 | 9°34 | 1♎ 9 | 19°50 | 1°40 | 6°15 | 24°31 | 24°31 | 24°46 | 3°55 | 4°46 | 25°19 | 28° 5 | S 7 |
| M 8 | 1 8 6 | 15° 8'46 | 5♎12 | 10°13 | 2°23 | 20°28 | 1°48 | 6°12 | 24°34 | 24°30 | 24°45 | 3°53 | 4°42 | 25°25 | 28° 2 | M 8 |
| T 9 | 1 12 2 | 16° 7'43 | 18°15 | 10°48 | 3°38 | 21° 5 | 1°55 | 6° 9 | 24°38 | 24°30 | 24°44 | 3°51 | 4°39 | 25°32 | 27°59 | T 9 |
| W10 | 1 15 59 | 17° 6'42 | 1♎34 | 11°17 | 4°52 | 21°43 | 2° 3 | 6° 6 | 24°42 | 24°30 | 24°43 | 3°D51 | 4°36 | 25°39 | 27°57 | W10 |
| T 11 | 1 19 56 | 18° 5'43 | 15° 6 | 11°42 | 6° 6 | 22°21 | 2°10 | 6° 3 | 24°45 | 24°29 | 24°42 | 3°51 | 4°33 | 25°46 | 27°54 | T 11 |
| F 12 | 1 23 52 | 19° 4'46 | 28°49 | 12° 1 | 7°21 | 22°59 | 2°18 | 6° 1 | 24°49 | 24°29 | 24°40 | 3°52 | 4°30 | 25°52 | 27°52 | F 12 |
| S 13 | 1 27 49 | 20° 3'50 | 12♌43 | 12°15 | 8°35 | 23°37 | 2°26 | 5°58 | 24°52 | 24°28 | 24°39 | 3°53 | 4°27 | 25°59 | 27°49 | S 13 |
| S 14 | 1 31 45 | 21° 2'57 | 26°45 | 12°R22 | 9°49 | 24°14 | 2°34 | 5°56 | 24°56 | 24°28 | 24°38 | 3°54 | 4°23 | 26° 6 | 27°47 | S 14 |
| M15 | 1 35 42 | 22° 2'05 | 10♌53 | 12°21 | 11° 3 | 24°52 | 2°43 | 5°53 | 24°59 | 24°27 | 24°37 | 3°55 | 4°20 | 26°12 | 27°44 | M15 |
| T 16 | 1 39 38 | 23° 1'15 | 25° 5 | 12°14 | 12°18 | 25°30 | 2°51 | 5°51 | 25° 3 | 24°27 | 24°36 | 3°R55 | 4°17 | 26°19 | 27°42 | T 16 |
| W17 | 1 43 35 | 24° 0'27 | 9♎19 | 11°59 | 13°32 | 26° 7 | 2°59 | 5°49 | 25° 6 | 24°26 | 24°35 | 3°55 | 4°14 | 26°26 | 27°39 | W17 |
| T 18 | 1 47 31 | 24°59'40 | 23°32 | 11°36 | 14°46 | 26°45 | 3° 8 | 5°46 | 25°10 | 24°25 | 24°34 | 3°54 | 4°11 | 26°33 | 27°37 | T 18 |
| F 19 | 1 51 28 | 25°58'55 | 7♋41 | 11° 5 | 16° 1 | 27°23 | 3°17 | 5°44 | 25°13 | 24°25 | 24°33 | 3°53 | 4° 8 | 26°39 | 27°35 | F 19 |
| S 20 | 1 55 25 | 26°58'12 | 21°43 | 10°25 | 17°15 | 28° 1 | 3°26 | 5°42 | 25°16 | 24°24 | 24°32 | 3°52 | 4° 4 | 26°46 | 27°32 | S 20 |
| S 21 | 1 59 21 | 27°57'30 | 5°♏36 | 9°38 | 18°29 | 28°38 | 3°35 | 5°40 | 25°20 | 24°23 | 24°31 | 3°51 | 4° 1 | 26°53 | 27°30 | S 21 |
| M22 | 2 3 18 | 28°56'51 | 19°15 | 8°43 | 19°43 | 29°16 | 3°44 | 5°39 | 25°23 | 24°22 | 24°30 | 3°51 | 3°58 | 26°59 | 27°28 | M22 |
| T 23 | 2 7 14 | 29°56'13 | 2♌39 | 7°41 | 20°58 | 29°54 | 3°53 | 5°37 | 25°26 | 24°21 | 24°29 | 3°D51 | 3°55 | 27° 6 | 27°25 | T 23 |
| W24 | 2 11 11 | 0♎55'38 | 15°46 | 6°34 | 22°12 | 0♉31 | 4° 2 | 5°35 | 25°30 | 24°21 | 24°28 | 3°51 | 3°52 | 27°13 | 27°23 | W24 |
| T 25 | 2 15 7 | 1°55'04 | 28°36 | 5°23 | 23°26 | 1° 9 | 4°12 | 5°34 | 25°33 | 24°20 | 24°27 | 3°51 | 3°48 | 27°20 | 27°21 | T 25 |
| F 26 | 2 19 4 | 2°54'33 | 11♏ 9 | 4°10 | 24°40 | 1°46 | 4°22 | 5°32 | 25°36 | 24°19 | 24°26 | 3°51 | 3°45 | 27°26 | 27°19 | F 26 |
| S 27 | 2 23 0 | 3°54'04 | 23°27 | 2°56 | 25°55 | 2°24 | 4°31 | 5°31 | 25°39 | 24°18 | 24°25 | 3°R51 | 3°42 | 27°33 | 27°17 | S 27 |
| S 28 | 2 26 57 | 4°53'38 | 5♎34 | 1°44 | 27° 9 | 3° 2 | 4°41 | 5°30 | 25°42 | 24°17 | 24°24 | 3°51 | 3°39 | 27°40 | 27°15 | S 28 |
| M29 | 2 30 54 | 5°53'13 | 17°31 | 0°36 | 28°23 | 3°39 | 4°51 | 5°29 | 25°45 | 24°16 | 24°24 | 3°51 | 3°36 | 27°47 | 27°13 | M29 |
| T 30 | 2 34 50 | 6°52'51 | 29°24 | 29♉35 | 29°37 | 4°17 | 5° 1 | 5°28 | 25°49 | 24°15 | 24°23 | 3°51 | 3°33 | 27°53 | 27°11 | T 30 |
| W31 | 2 38 47 | 7♎52'31 | 11♏18 | 28♉41 | 0♌52 | 4♎54 | 5♌11 | 5♋27 | 25♍52 | 24♏14 | 24♋22 | 3°D51 | 3♎29 | 28♌ 0 | 27♋ 9 | W31 |

Delta T = 17m19s

ASTRODIENST EPHEMERIS for the year 2553
geocentric

NOVEMBER 2553

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|--------|--------|-------|------|-------|--------|------|-----|
| T 1 | 2 42 43 | 8♁52°13 | 23♁16 | 27°R56 | 2♁7 6 | 5♁32 | 5♁21 | 5°R26 | 25♁55 | 24°R13 | 24°R21 | 3♁51 | 3♁26 | 28♁7 | 27°R 7 | T 1 | |
| F 2 | 2 46 40 | 9°51'57 | 5♁23 | 27♁23 | 3°20 | 6° 9 | 5°32 | 5♁25 | 25°58 | 24♁12 | 24♁20 | 3°52 | 3°23 | 28°13 | 27♁5 | F 2 | |
| S 3 | 2 50 36 | 10°51'43 | 17°44 | 27° 0 | 4°34 | 6°47 | 5°42 | 5°25 | 26° 1 | 24°11 | 24°19 | 3°52 | 3°20 | 28°20 | 27° 3 | S 3 | |
| S 4 | 2 54 33 | 11°51'32 | 0♁22 | 26°48 | 5°49 | 7°25 | 5°53 | 5°24 | 26° 4 | 24°10 | 24°19 | 3°53 | 3°17 | 28°27 | 27° 2 | S 4 | |
| M 5 | 2 58 29 | 12°51'23 | 13°20 | 26°D48 | 7° 3 | 8° 2 | 6° 3 | 5°24 | 26° 6 | 24° 8 | 24°18 | 3°54 | 3°13 | 28°34 | 27° 0 | M 5 | |
| T 6 | 3 2 26 | 13°51'16 | 26°39 | 26°59 | 8°17 | 8°40 | 6°14 | 5°23 | 26° 9 | 24° 7 | 24°17 | 3°54 | 3°10 | 28°40 | 26°58 | T 6 | |
| W 7 | 3 6 22 | 14°51'11 | 10♁18 | 27°21 | 9°31 | 9°17 | 6°25 | 5°23 | 26°12 | 24° 6 | 24°16 | 3°R54 | 3° 7 | 28°47 | 26°56 | W 7 | |
| T 8 | 3 10 19 | 15°51'07 | 24°16 | 27°52 | 10°45 | 9°55 | 6°36 | 5°23 | 26°15 | 24° 5 | 24°16 | 3°54 | 3° 4 | 28°54 | 26°55 | T 8 | |
| F 9 | 3 14 16 | 16°51'06 | 8♁28 | 28°32 | 12° 0 | 10°32 | 6°47 | 5°D23 | 26°18 | 24° 3 | 24°15 | 3°52 | 3° 1 | 29° 0 | 26°53 | F 9 | |
| S 10 | 3 18 12 | 17°51'07 | 22°51 | 29°20 | 13°14 | 11°10 | 6°58 | 5°23 | 26°20 | 24° 2 | 24°14 | 3°51 | 2°58 | 29° 7 | 26°52 | S 10 | |
| S 11 | 3 22 9 | 18°51'09 | 7♁18 | 0♁15 | 14°28 | 11°47 | 7° 9 | 5°23 | 26°23 | 24° 1 | 24°14 | 3°49 | 2°54 | 29°14 | 26°50 | S 11 | |
| M12 | 3 26 5 | 19°51'13 | 21°45 | 1°17 | 15°42 | 12°24 | 7°21 | 5°23 | 26°26 | 24° 0 | 24°13 | 3°47 | 2°51 | 29°21 | 26°49 | M12 | |
| T 13 | 3 30 2 | 20°51'18 | 6♁7 | 2°24 | 16°56 | 13° 2 | 7°32 | 5°24 | 26°28 | 23°58 | 24°13 | 3°46 | 2°48 | 29°27 | 26°48 | T 13 | |
| W14 | 3 33 58 | 21°51'25 | 20°20 | 3°36 | 18°11 | 13°39 | 7°43 | 5°24 | 26°31 | 23°57 | 24°12 | 3°D45 | 2°45 | 29°34 | 26°46 | W14 | |
| T 15 | 3 37 55 | 22°51'33 | 4♁22 | 4°52 | 19°25 | 14°17 | 7°55 | 5°25 | 26°33 | 23°55 | 24°11 | 3°46 | 2°42 | 29°41 | 26°45 | T 15 | |
| F 16 | 3 41 51 | 23°51'43 | 18°13 | 6°12 | 20°39 | 14°54 | 8° 7 | 5°26 | 26°36 | 23°54 | 24°11 | 3°47 | 2°39 | 29°48 | 26°44 | F 16 | |
| S 17 | 3 45 48 | 24°51'54 | 1°V51 | 7°35 | 21°53 | 15°31 | 8°18 | 5°26 | 26°38 | 23°53 | 24°10 | 3°48 | 2°35 | 29°54 | 26°43 | S 17 | |
| S 18 | 3 49 45 | 25°52'07 | 15°16 | 9° 0 | 23° 7 | 16° 9 | 8°30 | 5°27 | 26°40 | 23°51 | 24°10 | 3°50 | 2°32 | 0♁ 1 | 26°42 | S 18 | |
| M19 | 3 53 41 | 26°52'21 | 28°29 | 10°27 | 24°21 | 16°46 | 8°42 | 5°28 | 26°43 | 23°50 | 24°10 | 3°R50 | 2°29 | 0° 8 | 26°41 | M19 | |
| T 20 | 3 57 38 | 27°52'37 | 11♁29 | 11°56 | 25°35 | 17°23 | 8°54 | 5°29 | 26°45 | 23°48 | 24° 9 | 3°50 | 2°26 | 0°14 | 26°40 | T 20 | |
| W21 | 4 1 34 | 28°52'55 | 24°17 | 13°26 | 26°49 | 18° 1 | 9° 6 | 5°31 | 26°47 | 23°47 | 24° 9 | 3°49 | 2°23 | 0°21 | 26°39 | W21 | |
| T 22 | 4 5 31 | 29°53'14 | 6♁53 | 14°58 | 28° 3 | 18°38 | 9°18 | 5°32 | 26°50 | 23°45 | 24° 8 | 3°46 | 2°19 | 0°28 | 26°38 | T 22 | |
| F 23 | 4 9 27 | 0♁53'35 | 19°17 | 16°30 | 29°17 | 19°15 | 9°30 | 5°33 | 26°52 | 23°44 | 24° 8 | 3°42 | 2°16 | 0°35 | 26°37 | F 23 | |
| S 24 | 4 13 24 | 1°53'58 | 1♁30 | 18° 3 | 0♁31 | 19°53 | 9°42 | 5°35 | 26°54 | 23°42 | 24° 8 | 3°37 | 2°13 | 0°41 | 26°36 | S 24 | |
| S 25 | 4 17 21 | 2°54'22 | 13°33 | 19°37 | 1°46 | 20°30 | 9°55 | 5°37 | 26°56 | 23°41 | 24° 7 | 3°32 | 2°10 | 0°48 | 26°36 | S 25 | |
| M26 | 4 21 17 | 3°54'48 | 25°30 | 21°11 | 3° 0 | 21° 7 | 10° 7 | 5°38 | 26°58 | 23°39 | 24° 7 | 3°27 | 2° 7 | 0°55 | 26°35 | M26 | |
| T 27 | 4 25 14 | 4°55'16 | 7♁22 | 22°45 | 4°14 | 21°44 | 10°19 | 5°40 | 27° 0 | 23°37 | 24° 7 | 3°23 | 2° 4 | 1° 1 | 26°34 | T 27 | |
| W28 | 4 29 10 | 5°55'46 | 19°14 | 24°20 | 5°28 | 22°21 | 10°32 | 5°42 | 27° 2 | 23°36 | 24° 6 | 3°20 | 2° 0 | 1° 8 | 26°34 | W28 | |
| T 29 | 4 33 7 | 6°56'17 | 1♁9 | 25°55 | 6°42 | 22°59 | 10°44 | 5°44 | 27° 4 | 23°34 | 24° 6 | 3°18 | 1°57 | 1°15 | 26°33 | T 29 | |
| F 30 | 4 37 3 | 7°56'50 | 13♁13 | 27♁30 | 7♁55 | 23♁36 | 10♁57 | 5♁46 | 27♁5 | 23♁33 | 24♁6 | 3°D18 | 1♁54 | 1♁22 | 26♁33 | F 30 | |

Delta T = 17m19s

DECEMBER 2553

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|------|-------|--------|--------|-------|------|------|--------|------|-----|
| S 1 | 4 41 0 | 8♁57°25 | 25♁31 | 29♁4 | 9♁9 | 24♁13 | 11♁10 | 5♁48 | 27♁7 | 23°R31 | 24°R 6 | 3♁19 | 1♁51 | 1♁28 | 26°R32 | S 1 | |
| S 2 | 4 44 56 | 9°58'02 | 8♁7 | 0♁39 | 10°23 | 24°50 | 11°22 | 5°51 | 27° 9 | 23♁29 | 24♁6 | 3°21 | 1°48 | 1°35 | 26♁32 | S 2 | |
| M 3 | 4 48 53 | 10°58'40 | 21° 5 | 2°14 | 11°37 | 25°27 | 11°35 | 5°53 | 27°11 | 23°28 | 24° 6 | 3°22 | 1°45 | 1°42 | 26°32 | M 3 | |
| T 4 | 4 52 49 | 11°59'20 | 4♁29 | 3°49 | 12°51 | 26° 5 | 11°48 | 5°56 | 27°12 | 23°26 | 24° 5 | 3°R23 | 1°41 | 1°49 | 26°32 | T 4 | |
| W 5 | 4 56 46 | 13° 0'01 | 18°19 | 5°24 | 14° 5 | 26°42 | 12° 1 | 5°58 | 27°14 | 23°24 | 24° 5 | 3°22 | 1°38 | 1°55 | 26°31 | W 5 | |
| T 6 | 5 0 43 | 14° 0'44 | 2♁34 | 6°59 | 15°19 | 27°19 | 12°14 | 6° 1 | 27°15 | 23°23 | 24° 5 | 3°19 | 1°35 | 2° 2 | 26°31 | T 6 | |
| F 7 | 5 4 39 | 15° 1'29 | 17°10 | 8°33 | 16°33 | 27°56 | 12°27 | 6° 4 | 27°17 | 23°21 | 24° 5 | 3°14 | 1°32 | 2° 9 | 26°D31 | F 7 | |
| S 8 | 5 8 36 | 16° 2'15 | 2♁1 | 10° 8 | 17°47 | 28°33 | 12°40 | 6° 7 | 27°18 | 23°19 | 24°D 5 | 3° 8 | 1°29 | 2°15 | 26°31 | S 8 | |
| S 9 | 5 12 32 | 17° 3'01 | 16°57 | 11°42 | 19° 1 | 29°10 | 12°53 | 6°10 | 27°20 | 23°18 | 24° 5 | 3° 1 | 1°25 | 2°22 | 26°31 | S 9 | |
| M10 | 5 16 29 | 18° 3'49 | 1♁50 | 13°17 | 20°14 | 29°47 | 13° 6 | 6°13 | 27°21 | 23°16 | 24° 5 | 2°54 | 1°22 | 2°29 | 26°32 | M10 | |
| T 11 | 5 20 25 | 19° 4'38 | 16°32 | 14°51 | 21°28 | 0♁24 | 13°19 | 6°16 | 27°22 | 23°14 | 24° 5 | 2°48 | 1°19 | 2°36 | 26°32 | T 11 | |
| W12 | 5 24 22 | 20° 5'28 | 0♁58 | 16°26 | 22°42 | 1° 1 | 13°33 | 6°19 | 27°23 | 23°13 | 24° 6 | 2°45 | 1°16 | 2°42 | 26°32 | W12 | |
| T 13 | 5 28 19 | 21° 6'18 | 15° 3 | 18° 0 | 23°56 | 1°38 | 13°46 | 6°23 | 27°24 | 23°11 | 24° 6 | 2°D43 | 1°13 | 2°49 | 26°32 | T 13 | |
| F 14 | 5 32 15 | 22° 7'09 | 28°48 | 19°34 | 25° 9 | 2°15 | 13°59 | 6°26 | 27°25 | 23° 9 | 24° 6 | 2°43 | 1°10 | 2°56 | 26°33 | F 14 | |
| S 15 | 5 36 12 | 23° 8'01 | 12°V13 | 21° 8 | 26°23 | 2°52 | 14°13 | 6°30 | 27°27 | 23° 7 | 24° 6 | 2°44 | 1° 6 | 3° 3 | 26°33 | S 15 | |
| S 16 | 5 40 8 | 24° 8'54 | 25°20 | 22°42 | 27°37 | 3°29 | 14°26 | 6°33 | 27°27 | 23° 6 | 24° 6 | 2°45 | 1° 3 | 3° 9 | 26°34 | S 16 | |
| M17 | 5 44 5 | 25° 9'47 | 8♁12 | 24°17 | 28°50 | 4° 6 | 14°39 | 6°37 | 27°28 | 23° 4 | 24° 6 | 2°R45 | 1° 0 | 3°16 | 26°34 | M17 | |
| T 18 | 5 48 1 | 26°10'42 | 20°52 | 25°51 | 0♁4 | 4°43 | 14°53 | 6°41 | 27°29 | 23° 2 | 24° 7 | 2°43 | 0°57 | 3°23 | 26°35 | T 18 | |
| W19 | 5 51 58 | 27°11'37 | 3♁21 | 27°25 | 1°18 | 5°19 | 15° 6 | 6°45 | 27°30 | 23° 1 | 24° 7 | 2°39 | 0°54 | 3°29 | 26°35 | W19 | |
| T 20 | 5 55 54 | 28°12'33 | 15°41 | 28°59 | 2°31 | 5°56 | 15°20 | 6°49 | 27°31 | 22°59 | 24° 7 | 2°32 | 0°51 | 3°36 | 26°36 | T 20 | |
| F 21 | 5 59 51 | 29°13'30 | 27°53 | 0♁34 | 3°45 | 6°33 | 15°33 | 6°53 | 27°32 | 22°57 | 24° 7 | 2°23 | 0°47 | 3°43 | 26°37 | F 21 | |
| S 22 | 6 3 48 | 0♁14'27 | 9♁57 | 2° 8 | 4°58 | 7°10 | 15°47 | 6°57 | 27°32 | 22°56 | 24° 8 | 2°12 | 0°44 | 3°50 | 26°38 | S 22 | |
| S 23 | 6 7 44 | 1°15'25 | 21°56 | 3°43 | 6°11 | 7°47 | 16° 1 | 7° 1 | 27°33 | 22°54 | 24° 8 | 2° 0 | 0°41 | 3°56 | 26°38 | S 23 | |
| M24 | 6 11 41 | 2°16'25 | 3♁50 | 5°17 | 7°25 | 8°23 | 16°14 | 7° 5 | 27°33 | 22°52 | 24° 9 | 1°48 | 0°38 | 4° 3 | 26°39 | M24 | |
| T 25 | 6 15 37 | 3°17'25 | 15°42 | 6°52 | 8°38 | 9° 0 | 16°28 | 7°10 | 27°34 | 22°51 | 24° 9 | 1°37 | 0°35 | 4°10 | 26°40 | T 25 | |
| W26 | 6 19 34 | 4°18'26 | 27°33 | 8°27 | 9°51 | 9°37 | 16°42 | 7°14 | 27°34 | 22°49 | 24° 9 | 1°29 | 0°31 | 4°16 | 26°41 | W26 | |
| T 27 | 6 23 30 | 5°19'27 | 9♁27 | 10° 2 | 11° 5 | 10°13 | 16°55 | 7°19 | 27°35 | 22°47 | 24°10 | 1°23 | 0°28 | 4°23 | 26°43 | T 27 | |
| F 28 | 6 27 27 | 6°20'30 | 21°28 | 11°37 | 12°18 | 10°50 | 17° 9 | 7°23 | 27°35 | 22°46 | 24°10 | 1°19 | 0°25 | 4°30 | 26°44 | F 28 | |
| S 29 | 6 31 23 | 7°21'33 | 3♁41 | 13°13 | 13°31 | 11°27 | 17°23 | 7°28 | 27°35 | 22°44 | 24°11 | 1°D18 | 0°22 | 4°37 | 26°45 | S 29 | |
| S 30 | 6 35 20 | 8°22'38 | 16°11 | 14°48 | 14°44 | 12° 3 | 17°37 | 7°33 | 27°35 | 22°42 | 24°11 | 1°18 | 0°19 | 4°43 | 26°46 | S 30 | |
| M31 | 6 39 17 | 9♁23'43 | 29♁3 | 16♁24 | 15♁57 | 12♁40 | 17♁50 | 7♁38 | 27♁35 | 22♁41 | 24♁12 | 1°R18 | 0♁16 | 4♁50 | 26♁47 | M31 | |

Delta T = 17m19s

ASTRODIENST EPHEMERIS for the year 2554
geocentric

JANUARY 2554

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|--------|---------|-------|--------|-------|------|-------|------|-----|
| T 1 | 6 43 13 | 10♁24'49 | 12♂21 | 18♁ 0 | 17♁10 | 13♂16 | 18♁ 4 | 7♁43 | 27♂35 | 22°R39 | 24♁13 | 1°R18 | 0♂12 | 4♂57 | 26♁49 | T 1 | |
| W 2 | 6 47 10 | 11°25'55 | 26° 8 | 19°36 | 18°23 | 13°53 | 18°18 | 7°48 | 27°R35 | 22°II37 | 24°13 | 1♂16 | 0° 9 | 5° 4 | 26°50 | W 2 | |
| T 3 | 6 51 6 | 12°27'03 | 10♁25 | 21°12 | 19°36 | 14°29 | 18°32 | 7°53 | 27°35 | 22°36 | 24°14 | 1°11 | 0° 6 | 5°10 | 26°52 | T 3 | |
| F 4 | 6 55 3 | 13°28'11 | 25° 9 | 22°48 | 20°49 | 15° 6 | 18°46 | 7°58 | 27°35 | 22°34 | 24°15 | 1° 3 | 0° 3 | 5°17 | 26°53 | F 4 | |
| S 5 | 6 58 59 | 14°29'19 | 10♁14 | 24°25 | 22° 2 | 15°42 | 19° 0 | 8° 3 | 27°35 | 22°33 | 24°15 | 0°53 | 29♁59 | 5°24 | 26°55 | S 5 | |
| S 6 | 7 2 56 | 15°30'28 | 25°30 | 26° 1 | 23°15 | 16°19 | 19°14 | 8° 8 | 27°35 | 22°31 | 24°16 | 0°41 | 29°57 | 5°30 | 26°56 | S 6 | |
| M 7 | 7 6 52 | 16°31'37 | 10♁46 | 27°38 | 24°28 | 16°55 | 19°27 | 8°14 | 27°35 | 22°30 | 24°17 | 0°30 | 29°53 | 5°37 | 26°58 | M 7 | |
| T 8 | 7 10 49 | 17°32'45 | 25°50 | 29°14 | 25°40 | 17°32 | 19°41 | 8°19 | 27°34 | 22°28 | 24°17 | 0°21 | 29°50 | 5°44 | 27° 0 | T 8 | |
| W 9 | 7 14 46 | 18°33'54 | 10♁35 | 0♁50 | 26°53 | 18° 8 | 19°55 | 8°25 | 27°34 | 22°27 | 24°18 | 0°14 | 29°47 | 5°51 | 27° 2 | W 9 | |
| T 10 | 7 18 42 | 19°35'03 | 24°54 | 2°26 | 28° 6 | 18°44 | 20° 9 | 8°30 | 27°34 | 22°25 | 24°19 | 0° 9 | 29°44 | 5°57 | 27° 3 | T 10 | |
| F 11 | 7 22 39 | 20°36'11 | 8♁46 | 4° 2 | 29°18 | 19°20 | 20°23 | 8°36 | 27°33 | 22°24 | 24°20 | 0° 7 | 29°41 | 6° 4 | 27° 5 | F 11 | |
| S 12 | 7 26 35 | 21°37'19 | 22°12 | 5°38 | 0♁30 | 19°57 | 20°37 | 8°41 | 27°32 | 22°22 | 24°21 | 0° 7 | 29°37 | 6°11 | 27° 7 | S 12 | |
| S 13 | 7 30 32 | 22°38'27 | 5♁14 | 7°12 | 1°43 | 20°33 | 20°51 | 8°47 | 27°32 | 22°21 | 24°21 | 0° 7 | 29°34 | 6°18 | 27° 9 | S 13 | |
| M14 | 7 34 28 | 23°39'35 | 17°57 | 8°46 | 2°55 | 21° 9 | 21° 5 | 8°53 | 27°31 | 22°19 | 24°22 | 0° 6 | 29°31 | 6°24 | 27°11 | M14 | |
| T 15 | 7 38 25 | 24°40'42 | 0♁25 | 10°20 | 4° 7 | 21°45 | 21°19 | 8°59 | 27°30 | 22°18 | 24°23 | 0° 3 | 29°28 | 6°31 | 27°13 | T 15 | |
| W16 | 7 42 21 | 25°41'50 | 12°41 | 11°51 | 5°19 | 22°21 | 21°33 | 9° 5 | 27°30 | 22°17 | 24°24 | 29♁57 | 29°25 | 6°38 | 27°15 | W16 | |
| T 17 | 7 46 18 | 26°42'56 | 24°48 | 13°22 | 6°31 | 22°57 | 21°46 | 9°11 | 27°29 | 22°15 | 24°25 | 29°48 | 29°22 | 6°44 | 27°18 | T 17 | |
| F 18 | 7 50 15 | 27°44'03 | 6♁50 | 14°51 | 7°43 | 23°33 | 22° 0 | 9°17 | 27°28 | 22°14 | 24°26 | 29°36 | 29°18 | 6°51 | 27°20 | F 18 | |
| S 19 | 7 54 11 | 28°45'09 | 18°47 | 16°17 | 8°55 | 24° 9 | 22°14 | 9°23 | 27°27 | 22°13 | 24°27 | 29°22 | 29°15 | 6°58 | 27°22 | S 19 | |
| S 20 | 7 58 8 | 29°46'15 | 0♁41 | 17°41 | 10° 7 | 24°45 | 22°28 | 9°29 | 27°26 | 22°11 | 24°28 | 29° 7 | 29°12 | 7° 5 | 27°24 | S 20 | |
| M21 | 8 2 4 | 0♁47'21 | 12°34 | 19° 2 | 11°19 | 25°21 | 22°42 | 9°35 | 27°25 | 22°10 | 24°29 | 28°52 | 29° 9 | 7°11 | 27°27 | M21 | |
| T 22 | 8 6 1 | 1°48'26 | 24°26 | 20°19 | 12°30 | 25°57 | 22°56 | 9°41 | 27°24 | 22° 9 | 24°30 | 28°38 | 29° 6 | 7°18 | 27°29 | T 22 | |
| W23 | 8 9 57 | 2°49'31 | 6♁20 | 21°32 | 13°42 | 26°33 | 23°10 | 9°47 | 27°23 | 22° 8 | 24°31 | 28°26 | 29° 3 | 7°25 | 27°31 | W23 | |
| T 24 | 8 13 54 | 3°50'36 | 18°16 | 22°39 | 14°53 | 27° 9 | 23°23 | 9°54 | 27°22 | 22° 7 | 24°32 | 28°18 | 28°59 | 7°31 | 27°34 | T 24 | |
| F 25 | 8 17 50 | 4°51'41 | 0♁19 | 23°41 | 16° 4 | 27°44 | 23°37 | 10° 0 | 27°20 | 22° 5 | 24°33 | 28°12 | 28°56 | 7°38 | 27°36 | F 25 | |
| S 26 | 8 21 47 | 5°52'45 | 12°32 | 24°37 | 17°15 | 28°20 | 23°51 | 10° 6 | 27°19 | 22° 4 | 24°34 | 28°10 | 28°53 | 7°45 | 27°39 | S 26 | |
| S 27 | 8 25 44 | 6°53'49 | 25° 0 | 25°24 | 18°26 | 28°56 | 24° 5 | 10°13 | 27°18 | 22° 3 | 24°36 | 28°D 9 | 28°50 | 7°52 | 27°42 | S 27 | |
| M28 | 8 29 40 | 7°54'53 | 7♂46 | 26° 4 | 19°37 | 29°31 | 24°19 | 10°19 | 27°17 | 22° 2 | 24°37 | 28°R 9 | 28°47 | 7°58 | 27°44 | M28 | |
| T 29 | 8 33 37 | 8°55'57 | 20°55 | 26°34 | 20°48 | 0♁ 7 | 24°32 | 10°26 | 27°15 | 22° 1 | 24°38 | 28° 9 | 28°43 | 8° 5 | 27°47 | T 29 | |
| W30 | 8 37 33 | 9°57'00 | 4♁32 | 26°54 | 21°59 | 0♁42 | 24°46 | 10°32 | 27°14 | 22° 0 | 24°39 | 28° 6 | 28°40 | 8°12 | 27°50 | W30 | |
| T 31 | 8 41 30 | 10°58'04 | 18♁38 | 27°R 4 | 23♁10 | 1♁18 | 25♁ 0 | 10♁39 | 27♂12 | 21°II59 | 24♁40 | 28♁ 2 | 28♁37 | 8♂19 | 27♁52 | T 31 | |

Delta T = 17m19s

FEBRUARY 2554

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|-------|--------|---------|-------|--------|-------|-------|-------|------|-----|
| F 1 | 8 45 26 | 11°59'06 | 3♁13 | 27°R 2 | 24♁20 | 1♁53 | 25♁13 | 10♁46 | 27°R11 | 21°R58 | 24♁41 | 27°R55 | 28♁34 | 8♂25 | 27♁55 | F 1 | |
| S 2 | 8 49 23 | 13° 0'09 | 18°13 | 26♁49 | 25°30 | 2°29 | 25°27 | 10°52 | 27♂ 9 | 21°II57 | 24°43 | 27♁45 | 28°31 | 8°32 | 27°58 | S 2 | |
| S 3 | 8 53 19 | 14° 1'10 | 3♁29 | 26°24 | 26°41 | 3° 4 | 25°41 | 10°59 | 27° 7 | 21°56 | 24°44 | 27°34 | 28°28 | 8°39 | 28° 1 | S 3 | |
| M 4 | 8 57 16 | 15° 2'11 | 18°50 | 25°48 | 27°51 | 3°39 | 25°54 | 11° 6 | 27° 6 | 21°55 | 24°45 | 27°23 | 28°24 | 8°45 | 28° 4 | M 4 | |
| T 5 | 9 1 13 | 16° 3'11 | 4♁ 6 | 25° 2 | 29° 1 | 4°15 | 26° 8 | 11°13 | 27° 4 | 21°54 | 24°46 | 27°13 | 28°21 | 8°52 | 28° 7 | T 5 | |
| W 6 | 9 5 9 | 17° 4'10 | 19° 4 | 24° 7 | 0♁11 | 4°50 | 26°21 | 11°19 | 27° 2 | 21°54 | 24°48 | 27° 6 | 28°18 | 8°59 | 28° 9 | W 6 | |
| T 7 | 9 9 6 | 18° 5'08 | 3♁38 | 23° 3 | 1°20 | 5°25 | 26°35 | 11°26 | 27° 0 | 21°53 | 24°49 | 27° 1 | 28°15 | 9° 6 | 28°12 | T 7 | |
| F 8 | 9 13 2 | 19° 6'05 | 17°43 | 21°54 | 2°30 | 6° 0 | 26°48 | 11°33 | 26°58 | 21°52 | 24°50 | 26°59 | 28°12 | 9°12 | 28°15 | F 8 | |
| S 9 | 9 16 59 | 20° 7'00 | 1♁18 | 20°42 | 3°39 | 6°35 | 27° 1 | 11°40 | 26°56 | 21°51 | 24°52 | 26°D59 | 28° 9 | 9°19 | 28°19 | S 9 | |
| S 10 | 9 20 55 | 21° 7'54 | 14°27 | 19°27 | 4°48 | 7°10 | 27°15 | 11°47 | 26°55 | 21°51 | 24°53 | 26°59 | 28° 5 | 9°26 | 28°22 | S 10 | |
| M11 | 9 24 52 | 22° 8'47 | 27°12 | 18°14 | 5°57 | 7°45 | 27°28 | 11°54 | 26°53 | 21°50 | 24°54 | 26°R59 | 28° 2 | 9°32 | 28°25 | M11 | |
| T 12 | 9 28 48 | 23° 9'39 | 9♁38 | 17° 2 | 7° 6 | 8°20 | 27°41 | 12° 1 | 26°51 | 21°49 | 24°56 | 26°58 | 27°59 | 9°39 | 28°28 | T 12 | |
| W13 | 9 32 45 | 24°10'30 | 21°49 | 15°55 | 8°15 | 8°54 | 27°55 | 12° 8 | 26°48 | 21°49 | 24°57 | 26°54 | 27°56 | 9°46 | 28°31 | W13 | |
| T 14 | 9 36 42 | 25°11'19 | 3♁51 | 14°54 | 9°24 | 9°29 | 28° 8 | 12°15 | 26°46 | 21°48 | 24°59 | 26°48 | 27°53 | 9°53 | 28°34 | T 14 | |
| F 15 | 9 40 38 | 26°12'06 | 15°47 | 14° 0 | 10°32 | 10° 4 | 28°21 | 12°22 | 26°44 | 21°47 | 25° 0 | 26°39 | 27°49 | 9°59 | 28°37 | F 15 | |
| S 16 | 9 44 35 | 27°12'53 | 27°39 | 13°13 | 11°40 | 10°38 | 28°34 | 12°29 | 26°42 | 21°47 | 25° 1 | 26°28 | 27°46 | 10° 6 | 28°41 | S 16 | |
| S 17 | 9 48 31 | 28°13'38 | 9♁31 | 12°34 | 12°48 | 11°13 | 28°47 | 12°36 | 26°40 | 21°46 | 25° 3 | 26°16 | 27°43 | 10°13 | 28°44 | S 17 | |
| M18 | 9 52 28 | 29°14'21 | 21°24 | 12° 4 | 13°56 | 11°47 | 29° 0 | 12°44 | 26°38 | 21°46 | 25° 4 | 26° 4 | 27°40 | 10°20 | 28°47 | M18 | |
| T 19 | 9 56 24 | 0♁15'04 | 3♁20 | 11°41 | 15° 3 | 12°22 | 29°13 | 12°51 | 26°35 | 21°46 | 25° 6 | 25°54 | 27°37 | 10°26 | 28°51 | T 19 | |
| W20 | 10 0 21 | 1°15'45 | 15°19 | 11°27 | 16°11 | 12°56 | 29°26 | 12°58 | 26°33 | 21°45 | 25° 7 | 25°45 | 27°34 | 10°33 | 28°54 | W20 | |
| T 21 | 10 4 17 | 2°16'24 | 27°24 | 11°D20 | 17°18 | 13°30 | 29°39 | 13° 5 | 26°31 | 21°45 | 25° 9 | 25°38 | 27°30 | 10°40 | 28°57 | T 21 | |
| F 22 | 10 8 14 | 3°17'03 | 9♁36 | 11°21 | 18°25 | 14° 4 | 29°52 | 13°12 | 26°29 | 21°45 | 25°10 | 25°35 | 27°27 | 10°46 | 29° 1 | F 22 | |
| S 23 | 10 12 11 | 4°17'40 | 21°58 | 11°29 | 19°31 | 14°38 | 0♁ 4 | 13°19 | 26°26 | 21°44 | 25°12 | 25°D33 | 27°24 | 10°53 | 29° 4 | S 23 | |
| S 24 | 10 16 7 | 5°18'16 | 4♁32 | 11°43 | 20°38 | 15°12 | 0°17 | 13°27 | 26°24 | 21°44 | 25°13 | 25°33 | 27°21 | 11° 0 | 29° 8 | S 24 | |
| M25 | 10 20 4 | 6°18'51 | 17°21 | 12° 4 | 21°44 | 15°46 | 0°30 | 13°34 | 26°21 | 21°44 | 25°15 | 25°35 | 27°18 | 11° 7 | 29°11 | M25 | |
| T 26 | 10 24 0 | 7°19'25 | 0♁29 | 12°29 | 22°50 | 16°20 | 0°42 | 13°41 | 26°19 | 21°44 | 25°16 | 25°36 | 27°14 | 11°13 | 29°14 | T 26 | |
| W27 | 10 27 57 | 8°19'58 | 13°59 | 13° 0 | 23°56 | 16°54 | 0°55 | 13°48 | 26°17 | 21°43 | 25°18 | 25°R36 | 27°11 | 11°20 | 29°18 | W27 | |
| T 28 | 10 31 53 | 9♁20'30 | 27♁53 | 13°36 | 25°V 1 | 17♁28 | 1° 7 | 13♁56 | 26♂14 | 21°II43 | 25♁19 | 25♁34 | 27♁ 8 | 11♂27 | 29♁21 | T 28 | |

Delta T = 17m20s

ASTRODIENST EPHEMERIS for the year 2554
geocentric

MAY 2554

00:00 UT

Table with 17 columns: Day, Sid.t, ☉, ☽, ♃, ♀, ♂, ♄, ♀, ♁, ♃, ♆, ♄, ♁, ♃, ♆, Day. Rows represent days from May 1 to May 31, 2554.

Delta T = 17m21s

JUNE 2554

00:00 UT

Table with 17 columns: Day, Sid.t, ☉, ☽, ♃, ♀, ♂, ♄, ♀, ♁, ♃, ♆, ♄, ♁, ♃, ♆, Day. Rows represent days from June 1 to June 30, 2554.

Delta T = 17m21s

ASTRODIENST EPHEMERIS for the year 2554
geocentric

SEPTEMBER 2554

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|-------|------|-------|------|---|-----|
| S 1 | 22 41 16 | 8♎56'14 | 7♏57 | 2♏51 | 25♏19 | 16♏1 | 3°R26 | 21°R36 | 26♎45 | 26♏33 | 26°R44 | 15°R44 | 17♏20 | 2♎7 | 3°R38 | S 1 | | |
| M 2 | 22 45 12 | 9°54'05 | 19°57 | 4°14 | 26°25 | 16°14 | 3♏21 | 21♏32 | 26°49 | 26°34 | 26♏43 | 15°D44 | 17°17 | 2°13 | 3♎36 | M 2 | | |
| T 3 | 22 49 9 | 10°51'58 | 2♎6 | 5°36 | 27°30 | 16°28 | 3°16 | 21°28 | 26°52 | 26°35 | 26°42 | 15♏45 | 17°14 | 2°20 | 3°33 | T 3 | | |
| W 4 | 22 53 6 | 11°49'52 | 14°29 | 6°55 | 28°36 | 16°43 | 3°12 | 21°23 | 26°56 | 26°36 | 26°41 | 15°46 | 17°11 | 2°27 | 3°31 | W 4 | | |
| T 5 | 22 57 2 | 12°47'47 | 27°7 | 8°13 | 29°43 | 16°58 | 3°7 | 21°19 | 27°0 | 26°37 | 26°40 | 15°48 | 17°8 | 2°34 | 3°28 | T 5 | | |
| F 6 | 23 0 59 | 13°45'43 | 10♏7 | 9°30 | 0♏49 | 17°14 | 3°3 | 21°14 | 27°3 | 26°38 | 26°38 | 15°R49 | 17°4 | 2°40 | 3°25 | F 6 | | |
| S 7 | 23 4 55 | 14°43'41 | 23°30 | 10°44 | 1°56 | 17°31 | 2°59 | 21°10 | 27°7 | 26°38 | 26°37 | 15°49 | 17°1 | 2°47 | 3°23 | S 7 | | |
| S 8 | 23 8 52 | 15°41'40 | 7♏19 | 11°57 | 3°2 | 17°48 | 2°55 | 21°5 | 27°11 | 26°39 | 26°36 | 15°47 | 16°58 | 2°54 | 3°20 | S 8 | | |
| M 9 | 23 12 48 | 16°39'40 | 21°34 | 13°7 | 4°9 | 18°6 | 2°51 | 21°1 | 27°15 | 26°40 | 26°35 | 15°44 | 16°55 | 3°0 | 3°18 | M 9 | | |
| T 10 | 23 16 45 | 17°37'41 | 6♏14 | 14°16 | 5°17 | 18°25 | 2°48 | 20°56 | 27°18 | 26°40 | 26°34 | 15°41 | 16°52 | 3°7 | 3°15 | T 10 | | |
| W11 | 23 20 41 | 18°35'44 | 21°12 | 15°23 | 6°24 | 18°44 | 2°44 | 20°52 | 27°22 | 26°41 | 26°32 | 15°37 | 16°49 | 3°14 | 3°12 | W11 | | |
| T 12 | 23 24 38 | 19°33'48 | 6♏22 | 16°27 | 7°31 | 19°4 | 2°41 | 20°47 | 27°26 | 26°42 | 26°31 | 15°33 | 16°45 | 3°20 | 3°10 | T 12 | | |
| F 13 | 23 28 35 | 20°31'54 | 21°34 | 17°29 | 8°39 | 19°24 | 2°38 | 20°42 | 27°30 | 26°42 | 26°30 | 15°31 | 16°42 | 3°27 | 3°7 | F 13 | | |
| S 14 | 23 32 31 | 21°30'01 | 6♎38 | 18°28 | 9°47 | 19°45 | 2°35 | 20°38 | 27°33 | 26°43 | 26°29 | 15°30 | 16°39 | 3°34 | 3°4 | S 14 | | |
| S 15 | 23 36 28 | 22°28'10 | 21°25 | 19°25 | 10°55 | 20°6 | 2°33 | 20°33 | 27°37 | 26°43 | 26°28 | 15°D30 | 16°36 | 3°40 | 3°2 | S 15 | | |
| M16 | 23 40 24 | 23°26'21 | 5♏48 | 20°19 | 12°3 | 20°28 | 2°30 | 20°29 | 27°41 | 26°44 | 26°26 | 15°30 | 16°33 | 3°47 | 2°59 | M16 | | |
| T 17 | 23 44 21 | 24°24'35 | 19°46 | 21°10 | 13°11 | 20°51 | 2°28 | 20°24 | 27°45 | 26°44 | 26°25 | 15°32 | 16°29 | 3°54 | 2°56 | T 17 | | |
| W18 | 23 48 17 | 25°22'50 | 3♏16 | 21°58 | 14°20 | 21°14 | 2°26 | 20°20 | 27°48 | 26°45 | 26°24 | 15°33 | 16°26 | 4°0 | 2°54 | W18 | | |
| T 19 | 23 52 14 | 26°21'07 | 16°22 | 22°42 | 15°29 | 21°38 | 2°24 | 20°15 | 27°52 | 26°45 | 26°23 | 15°34 | 16°23 | 4°7 | 2°51 | T 19 | | |
| F 20 | 23 56 10 | 27°19'26 | 29°4 | 23°23 | 16°37 | 22°2 | 2°22 | 20°11 | 27°56 | 26°45 | 26°21 | 15°R34 | 16°20 | 4°14 | 2°48 | F 20 | | |
| S 21 | 0 0 7 | 28°17'47 | 11♏28 | 24°0 | 17°46 | 22°26 | 2°21 | 20°6 | 28°0 | 26°46 | 26°20 | 15°34 | 16°17 | 4°20 | 2°45 | S 21 | | |
| S 22 | 0 4 3 | 29°16'10 | 23°38 | 24°32 | 18°55 | 22°51 | 2°19 | 20°2 | 28°4 | 26°46 | 26°19 | 15°33 | 16°14 | 4°27 | 2°43 | S 22 | | |
| M23 | 0 8 0 | 0♏43'36 | 5♏27 | 25°1 | 20°5 | 23°17 | 2°18 | 19°57 | 28°7 | 26°46 | 26°18 | 15°31 | 16°10 | 4°34 | 2°40 | M23 | | |
| T 24 | 0 11 57 | 1°13'03 | 17°30 | 25°24 | 21°14 | 23°43 | 2°17 | 19°53 | 28°11 | 26°46 | 26°16 | 15°29 | 16°7 | 4°40 | 2°37 | T 24 | | |
| W25 | 0 15 53 | 2°11'32 | 29°19 | 25°42 | 22°23 | 24°9 | 2°16 | 19°48 | 28°15 | 26°47 | 26°15 | 15°26 | 16°4 | 4°47 | 2°34 | W25 | | |
| T 26 | 0 19 50 | 3°10'03 | 11♎9 | 25°54 | 23°33 | 24°36 | 2°16 | 19°44 | 28°19 | 26°47 | 26°14 | 15°25 | 16°1 | 4°54 | 2°32 | T 26 | | |
| F 27 | 0 23 46 | 4°8'37 | 23°1 | 26°1 | 24°43 | 25°3 | 2°16 | 19°40 | 28°22 | 26°47 | 26°13 | 15°23 | 15°58 | 5°0 | 2°29 | F 27 | | |
| S 28 | 0 27 43 | 5°7'12 | 4♏58 | 26°R1 | 25°53 | 25°31 | 2°D15 | 19°35 | 28°26 | 26°47 | 26°12 | 15°22 | 15°54 | 5°7 | 2°26 | S 28 | | |
| S 29 | 0 31 39 | 6°5'49 | 17°1 | 25°55 | 27°3 | 25°59 | 2°15 | 19°31 | 28°30 | 26°47 | 26°10 | 15°D22 | 15°51 | 5°14 | 2°23 | S 29 | | |
| M30 | 0 35 36 | 7♏4'28 | 29♏13 | 25♏42 | 28♏13 | 26♏27 | 2♏16 | 19♏27 | 28♎34 | 26°R47 | 26♏9 | 15♏23 | 15♏48 | 5♎21 | 2♎20 | M30 | | |

Delta T = 17m22s

OCTOBER 2554

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|---------|----------|--------|--------|-------|-------|------|--------|-------|--------|-------|--------|-------|------|-------|------|---|-----|
| T 1 | 0 39 32 | 8♏3'08 | 11♎35 | 25°R22 | 29♏23 | 26♏56 | 2♏16 | 19°R22 | 28♎38 | 26°R47 | 26°R8 | 15♏23 | 15♏45 | 5♎27 | 2°R18 | T 1 | | |
| W 2 | 0 43 29 | 9°1'51 | 24°10 | 24♏55 | 0♎33 | 27°26 | 2°17 | 19♏18 | 28°41 | 26♏47 | 26♏7 | 15°24 | 15°42 | 5°34 | 2♎15 | W 2 | | |
| T 3 | 0 47 26 | 10°0'35 | 6♏58 | 24°20 | 1°44 | 27°55 | 2°18 | 19°14 | 28°45 | 26°47 | 26°6 | 15°24 | 15°39 | 5°41 | 2°12 | T 3 | | |
| F 4 | 0 51 22 | 10°59'21 | 20°4 | 23°38 | 2°54 | 28°25 | 2°19 | 19°10 | 28°49 | 26°47 | 26°4 | 15°25 | 15°35 | 5°47 | 2°10 | F 4 | | |
| S 5 | 0 55 19 | 11°58'09 | 3♏27 | 22°50 | 4°5 | 28°56 | 2°20 | 19°6 | 28°52 | 26°46 | 26°3 | 15°25 | 15°32 | 5°54 | 2°7 | S 5 | | |
| S 6 | 0 59 15 | 12°56'59 | 17°10 | 21°56 | 5°16 | 29°27 | 2°21 | 19°2 | 28°56 | 26°46 | 26°2 | 15°R25 | 15°29 | 6°1 | 2°4 | S 6 | | |
| M 7 | 1 3 12 | 13°55'50 | 1♏13 | 20°56 | 6°27 | 29°58 | 2°23 | 18°58 | 29°0 | 26°46 | 26°1 | 15°25 | 15°26 | 6°7 | 2°1 | M 7 | | |
| T 8 | 1 7 8 | 14°54'42 | 15°35 | 19°52 | 7°38 | 0♏29 | 2°25 | 18°54 | 29°4 | 26°46 | 26°0 | 15°D25 | 15°23 | 6°14 | 1°59 | T 8 | | |
| W 9 | 1 11 5 | 15°53'37 | 0♏13 | 18°45 | 8°49 | 1°1 | 2°27 | 18°51 | 29°7 | 26°45 | 25°59 | 15°25 | 15°20 | 6°21 | 1°56 | W 9 | | |
| T 10 | 1 15 1 | 16°52'33 | 15°3 | 17°37 | 10°0 | 1°33 | 2°29 | 18°47 | 29°11 | 26°45 | 25°57 | 15°25 | 15°16 | 6°27 | 1°53 | T 10 | | |
| F 11 | 1 18 58 | 17°51'31 | 29°57 | 16°29 | 11°12 | 2°5 | 2°31 | 18°43 | 29°15 | 26°45 | 25°56 | 15°25 | 15°13 | 6°34 | 1°51 | F 11 | | |
| S 12 | 1 22 55 | 18°50'30 | 14°R48 | 15°23 | 12°23 | 2°38 | 2°34 | 18°39 | 29°18 | 26°44 | 25°55 | 15°R25 | 15°10 | 6°41 | 1°48 | S 12 | | |
| S 13 | 1 26 51 | 19°49'32 | 29°28 | 14°22 | 13°35 | 3°11 | 2°36 | 18°36 | 29°22 | 26°44 | 25°54 | 15°25 | 15°7 | 6°47 | 1°46 | S 13 | | |
| M14 | 1 30 48 | 20°48'36 | 13♏51 | 13°26 | 14°46 | 3°44 | 2°39 | 18°32 | 29°25 | 26°43 | 25°53 | 15°25 | 15°4 | 6°54 | 1°43 | M14 | | |
| T 15 | 1 34 44 | 21°47'42 | 27°52 | 12°37 | 15°58 | 4°18 | 2°42 | 18°29 | 29°29 | 26°43 | 25°52 | 15°24 | 15°0 | 7°1 | 1°40 | T 15 | | |
| W16 | 1 38 41 | 22°46'50 | 11♏28 | 11°57 | 17°10 | 4°52 | 2°46 | 18°26 | 29°33 | 26°42 | 25°51 | 15°23 | 14°57 | 7°7 | 1°38 | W16 | | |
| T 17 | 1 42 37 | 23°46'01 | 24°39 | 11°27 | 18°22 | 5°26 | 2°49 | 18°22 | 29°36 | 26°42 | 25°50 | 15°22 | 14°54 | 7°14 | 1°35 | T 17 | | |
| F 18 | 1 46 34 | 24°45'14 | 7♏26 | 11°7 | 19°34 | 6°0 | 2°53 | 18°19 | 29°40 | 26°41 | 25°49 | 15°22 | 14°51 | 7°21 | 1°33 | F 18 | | |
| S 19 | 1 50 30 | 25°44'29 | 19°53 | 10°D58 | 20°46 | 6°34 | 2°57 | 18°16 | 29°43 | 26°41 | 25°48 | 15°21 | 14°48 | 7°27 | 1°31 | S 19 | | |
| S 20 | 1 54 27 | 26°43'46 | 2♏4 | 11°0 | 21°58 | 7°9 | 3°1 | 18°13 | 29°47 | 26°40 | 25°47 | 15°D21 | 14°45 | 7°34 | 1°28 | S 20 | | |
| M21 | 1 58 23 | 27°43'05 | 14°3 | 11°12 | 23°11 | 7°44 | 3°5 | 18°10 | 29°50 | 26°39 | 25°46 | 15°22 | 14°41 | 7°41 | 1°26 | M21 | | |
| T 22 | 2 2 20 | 28°42'27 | 25°54 | 11°35 | 24°23 | 8°19 | 3°9 | 18°7 | 29°54 | 26°39 | 25°45 | 15°23 | 14°38 | 7°47 | 1°23 | T 22 | | |
| W23 | 2 6 17 | 29°41'51 | 7♎44 | 12°7 | 25°35 | 8°55 | 3°14 | 18°4 | 29°57 | 26°38 | 25°44 | 15°24 | 14°35 | 7°54 | 1°21 | W23 | | |
| T 24 | 2 10 13 | 0♏41'18 | 19°34 | 12°49 | 26°48 | 9°31 | 3°19 | 18°1 | 0♏0 | 26°37 | 25°43 | 15°25 | 14°32 | 8°1 | 1°19 | T 24 | | |
| F 25 | 2 14 10 | 1°40'46 | 1♏30 | 13°39 | 28°1 | 10°7 | 3°24 | 17°59 | 0°4 | 26°36 | 25°42 | 15°26 | 14°29 | 8°7 | 1°16 | F 25 | | |
| S 26 | 2 18 6 | 2°40'16 | 13°35 | 14°36 | 29°13 | 10°43 | 3°29 | 17°56 | 0°7 | 26°35 | 25°41 | 15°R27 | 14°26 | 8°14 | 1°14 | S 26 | | |
| S 27 | 2 22 3 | 3°39'49 | 25°50 | 15°41 | 0♏26 | 11°19 | 3°34 | 17°54 | 0°10 | 26°35 | 25°40 | 15°27 | 14°22 | 8°21 | 1°12 | S 27 | | |
| M28 | 2 25 59 | 4°39'24 | 8♎18 | 16°51 | 1°39 | 11°56 | 3°39 | 17°51 | 0°14 | 26°34 | 25°39 | 15°25 | 14°19 | 8°27 | 1°10 | M28 | | |
| T 29 | 2 29 56 | 5°39'01 | 20°59 | 18°6 | 2°52 | 12°32 | 3°45 | 17°49 | 0°17 | 26°33 | 25°38 | 15°23 | 14°16 | 8°34 | 1°8 | T 29 | | |
| W30 | 2 33 52 | 6°38'39 | 3♏54 | 19°26 | 4°5 | 13°9 | 3°51 | 17°47 | 0°20 | 26°32 | 25°37 | 15°20 | 14°13 | 8°41 | 1°5 | W30 | | |
| T 31 | 2 37 49 | 7♎38'20 | 17♏3 | 20♏50 | 5♏18 | 13♏47 | 3♏57 | 17♏45 | 0♏23 | 26♏31 | 25♏36 | 15♏17 | 14♏10 | 8♎47 | 1♎3 | T 31 | | |

Delta T = 17m22s

ASTRODIENST EPHEMERIS for the year 2554
geocentric

NOVEMBER 2554

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♂ | ♄ | ♅ | ♁ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|------|--------|------|--------|--------|--------|-------|-------|------|------|-----|
| F 1 | 2 41 46 | 8♉38°02' | 0♌25 | 22♌17 | 6♉31 | 14♎24 | 4♋3 | 17°R42 | 0♌27 | 26°R30 | 25°R35 | 15°R13 | 14♌6 | 8♉54 | 1°R1 | F 1 | |
| S 2 | 2 45 42 | 9°37'46 | 13°59 | 23°47 | 7°44 | 15°1 | 4°9 | 17♋41 | 0°30 | 26♉29 | 25♋35 | 15♌10 | 14°3 | 9°1 | 0♌59 | S 2 | |
| S 3 | 2 49 39 | 10°37'32 | 27°46 | 25°19 | 8°58 | 15°39 | 4°15 | 17°39 | 0°33 | 26°28 | 25°34 | 15°9 | 14°0 | 9°7 | 0°57 | S 3 | |
| M 4 | 2 53 35 | 11°37'19 | 11♋45 | 26°53 | 10°11 | 16°17 | 4°22 | 17°37 | 0°36 | 26°27 | 25°33 | 15°D8 | 13°57 | 9°14 | 0°55 | M 4 | |
| T 5 | 2 57 32 | 12°37'08 | 25°53 | 28°28 | 11°25 | 16°55 | 4°29 | 17°35 | 0°39 | 26°26 | 25°32 | 15°9 | 13°54 | 9°21 | 0°53 | T 5 | |
| W 6 | 3 1 28 | 13°36'59 | 10♌11 | 0♉5 | 12°38 | 17°33 | 4°36 | 17°34 | 0°42 | 26°24 | 25°31 | 15°10 | 13°51 | 9°27 | 0°52 | W 6 | |
| T 7 | 3 5 25 | 14°36'51 | 24°35 | 1°42 | 13°52 | 18°12 | 4°43 | 17°32 | 0°45 | 26°23 | 25°31 | 15°11 | 13°47 | 9°34 | 0°50 | T 7 | |
| F 8 | 3 9 21 | 15°36'45 | 9♉2 | 3°20 | 15°5 | 18°50 | 4°50 | 17°31 | 0°48 | 26°22 | 25°30 | 15°R12 | 13°44 | 9°41 | 0°48 | F 8 | |
| S 9 | 3 13 18 | 16°36'40 | 23°28 | 4°58 | 16°19 | 19°29 | 4°57 | 17°30 | 0°51 | 26°21 | 25°29 | 15°12 | 13°41 | 9°47 | 0°46 | S 9 | |
| S 10 | 3 17 15 | 17°36'37 | 7♉47 | 6°37 | 17°32 | 20°8 | 5°5 | 17°28 | 0°54 | 26°20 | 25°29 | 15°11 | 13°38 | 9°54 | 0°45 | S 10 | |
| M11 | 3 21 11 | 18°36'36 | 21°56 | 8°16 | 18°46 | 20°46 | 5°13 | 17°27 | 0°57 | 26°18 | 25°28 | 15°7 | 13°35 | 10°1 | 0°43 | M11 | |
| T 12 | 3 25 8 | 19°36'37 | 5♉48 | 9°55 | 20°0 | 21°26 | 5°20 | 17°26 | 1°0 | 26°17 | 25°27 | 15°2 | 13°31 | 10°7 | 0°42 | T 12 | |
| W13 | 3 29 4 | 20°36'40 | 19°20 | 11°34 | 21°14 | 22°5 | 5°28 | 17°26 | 1°2 | 26°16 | 25°27 | 14°57 | 13°28 | 10°14 | 0°40 | W13 | |
| T 14 | 3 33 1 | 21°36'45 | 2♉31 | 13°12 | 22°28 | 22°44 | 5°36 | 17°25 | 1°5 | 26°15 | 25°26 | 14°50 | 13°25 | 10°21 | 0°38 | T 14 | |
| F 15 | 3 36 57 | 22°36'52 | 15°21 | 14°51 | 23°42 | 23°23 | 5°45 | 17°24 | 1°8 | 26°13 | 25°25 | 14°45 | 13°22 | 10°27 | 0°37 | F 15 | |
| S 16 | 3 40 54 | 23°37'01 | 27°50 | 16°29 | 24°56 | 24°3 | 5°53 | 17°24 | 1°11 | 26°12 | 25°25 | 14°40 | 13°19 | 10°34 | 0°36 | S 16 | |
| S 17 | 3 44 50 | 24°37'12 | 10♉2 | 18°8 | 26°10 | 24°43 | 6°1 | 17°23 | 1°13 | 26°11 | 25°24 | 14°37 | 13°16 | 10°41 | 0°34 | S 17 | |
| M18 | 3 48 47 | 25°37'25 | 22°2 | 19°46 | 27°24 | 25°22 | 6°10 | 17°23 | 1°16 | 26°9 | 25°24 | 14°D36 | 13°12 | 10°47 | 0°33 | M18 | |
| T 19 | 3 52 44 | 26°37'40 | 3♉53 | 21°23 | 28°38 | 26°2 | 6°19 | 17°23 | 1°18 | 26°8 | 25°23 | 14°36 | 13°9 | 10°54 | 0°32 | T 19 | |
| W20 | 3 56 40 | 27°37'56 | 15°42 | 23°1 | 29°52 | 26°42 | 6°28 | 17°22 | 1°21 | 26°6 | 25°23 | 14°37 | 13°6 | 11°1 | 0°31 | W20 | |
| T 21 | 4 0 37 | 28°38'15 | 27°34 | 24°38 | 1♉7 | 27°22 | 6°37 | 17°D22 | 1°23 | 26°5 | 25°22 | 14°39 | 13°3 | 11°7 | 0°29 | T 21 | |
| F 22 | 4 4 33 | 29°38'36 | 9♉33 | 26°15 | 2°21 | 28°3 | 6°46 | 17°22 | 1°26 | 26°3 | 25°22 | 14°R40 | 13°0 | 11°14 | 0°28 | F 22 | |
| S 23 | 4 8 30 | 0♌38°58 | 21°43 | 27°51 | 3°35 | 28°43 | 6°55 | 17°23 | 1°28 | 26°2 | 25°22 | 14°40 | 12°57 | 11°21 | 0°27 | S 23 | |
| S 24 | 4 12 26 | 1°39'23 | 4♉9 | 29°27 | 4°50 | 29°23 | 7°5 | 17°23 | 1°30 | 26°0 | 25°21 | 14°38 | 12°53 | 11°27 | 0°26 | S 24 | |
| M25 | 4 16 23 | 2°39'49 | 16°52 | 1♌3 | 6°4 | 0♌4 | 7°14 | 17°23 | 1°33 | 25°59 | 25°21 | 14°33 | 12°50 | 11°34 | 0°25 | M25 | |
| T 26 | 4 20 19 | 3°40'16 | 29°53 | 2°39 | 7°19 | 0°44 | 7°24 | 17°24 | 1°35 | 25°57 | 25°21 | 14°27 | 12°47 | 11°41 | 0°25 | T 26 | |
| W27 | 4 24 16 | 4°40'46 | 13♌12 | 4°14 | 8°33 | 1°25 | 7°34 | 17°24 | 1°37 | 25°56 | 25°20 | 14°19 | 12°44 | 11°47 | 0°24 | W27 | |
| T 28 | 4 28 13 | 5°41'17 | 26°47 | 5°49 | 9°48 | 2°6 | 7°44 | 17°25 | 1°39 | 25°54 | 25°20 | 14°10 | 12°41 | 11°54 | 0°23 | T 28 | |
| F 29 | 4 32 9 | 6°41'49 | 10♌35 | 7°24 | 11°2 | 2°47 | 7°54 | 17°26 | 1°41 | 25°53 | 25°20 | 14°1 | 12°37 | 12°1 | 0°22 | F 29 | |
| S 30 | 4 36 6 | 7♌42°23 | 24♌33 | 8♌59 | 12♉17 | 3♌28 | 8♌4 | 17♌27 | 1°44 | 25♉51 | 25♌19 | 13♌53 | 12♌34 | 12♉7 | 0♌22 | S 30 | |

Delta T = 17m22s

DECEMBER 2554

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♂ | ♄ | ♅ | ♁ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|-------|-------|-------|------|-----|
| S 1 | 4 40 2 | 8♌42°58 | 8♋36 | 10♌34 | 13♉32 | 4♌9 | 8♋14 | 17♌28 | 1°46 | 25°R49 | 25°R19 | 13°R47 | 12♌31 | 12♉14 | 0°R21 | S 1 | |
| M 2 | 4 43 59 | 9°43'34 | 22°42 | 12°8 | 14°46 | 4°50 | 8°24 | 17°29 | 1°47 | 25♉48 | 25♌19 | 13♌43 | 12°28 | 12°21 | 0♌20 | M 2 | |
| T 3 | 4 47 55 | 10°44'11 | 6♌50 | 13°42 | 16°1 | 5°31 | 8°35 | 17°30 | 1°49 | 25°46 | 25°19 | 13°D42 | 12°25 | 12°27 | 0°20 | T 3 | |
| W 4 | 4 51 52 | 11°44'49 | 20°56 | 15°16 | 17°16 | 6°12 | 8°46 | 17°31 | 1°51 | 25°45 | 25°19 | 13°42 | 12°22 | 12°34 | 0°19 | W 4 | |
| T 5 | 4 55 48 | 12°45'29 | 5♉1 | 16°50 | 18°30 | 6°54 | 8°56 | 17°33 | 1°53 | 25°43 | 25°19 | 13°43 | 12°18 | 12°41 | 0°19 | T 5 | |
| F 6 | 4 59 45 | 13°46'09 | 19°3 | 18°24 | 19°45 | 7°35 | 9°7 | 17°34 | 1°55 | 25°41 | 25°19 | 13°R43 | 12°15 | 12°47 | 0°19 | F 6 | |
| S 7 | 5 3 42 | 14°46'50 | 3♌1 | 19°57 | 21°0 | 8°17 | 9°18 | 17°36 | 1°57 | 25°40 | 25°18 | 13°41 | 12°12 | 12°54 | 0°18 | S 7 | |
| S 8 | 5 7 38 | 15°47'33 | 16°54 | 21°31 | 22°15 | 8°58 | 9°29 | 17°38 | 1°58 | 25°38 | 25°18 | 13°37 | 12°9 | 13°1 | 0°18 | S 8 | |
| M 9 | 5 11 35 | 16°48'16 | 0♉37 | 23°4 | 23°30 | 9°40 | 9°40 | 17°40 | 2°0 | 25°36 | 25°D18 | 13°30 | 12°6 | 13°7 | 0°18 | M 9 | |
| T 10 | 5 15 31 | 17°49'01 | 14°9 | 24°38 | 24°44 | 10°21 | 9°51 | 17°42 | 2°1 | 25°35 | 25°18 | 13°21 | 12°3 | 13°14 | 0°18 | T 10 | |
| W11 | 5 19 28 | 18°49'47 | 27°27 | 26°11 | 25°59 | 11°3 | 10°3 | 17°44 | 2°3 | 25°33 | 25°18 | 13°9 | 11°59 | 13°21 | 0°D18 | W11 | |
| T 12 | 5 23 24 | 19°50'34 | 10♌28 | 27°44 | 27°14 | 11°45 | 10°14 | 17°46 | 2°4 | 25°31 | 25°19 | 12°57 | 11°56 | 13°27 | 0°18 | T 12 | |
| F 13 | 5 27 21 | 20°51'23 | 23°12 | 29°18 | 28°29 | 12°26 | 10°26 | 17°48 | 2°6 | 25°30 | 25°19 | 12°45 | 11°53 | 13°34 | 0°18 | F 13 | |
| S 14 | 5 31 17 | 21°52'12 | 5♉39 | 0♌51 | 29°44 | 13°8 | 10°37 | 17°50 | 2°7 | 25°28 | 25°19 | 12°35 | 11°50 | 13°41 | 0°18 | S 14 | |
| S 15 | 5 35 14 | 22°53'03 | 17°50 | 2°24 | 0♌59 | 13°50 | 10°49 | 17°53 | 2°8 | 25°26 | 25°19 | 12°27 | 11°47 | 13°47 | 0°18 | S 15 | |
| M16 | 5 39 11 | 23°53'55 | 29°49 | 3°57 | 2°14 | 14°32 | 11°1 | 17°55 | 2°10 | 25°24 | 25°19 | 12°22 | 11°43 | 13°54 | 0°19 | M16 | |
| T 17 | 5 43 7 | 24°54'48 | 11♉40 | 5°30 | 3°29 | 15°14 | 11°12 | 17°58 | 2°11 | 25°23 | 25°19 | 12°19 | 11°40 | 14°1 | 0°19 | T 17 | |
| W18 | 5 47 4 | 25°55'43 | 23°28 | 7°3 | 4°44 | 15°56 | 11°24 | 18°1 | 2°12 | 25°21 | 25°19 | 12°D18 | 11°37 | 14°7 | 0°19 | W18 | |
| T 19 | 5 51 0 | 26°56'39 | 5♌19 | 8°36 | 5°59 | 16°38 | 11°36 | 18°3 | 2°13 | 25°19 | 25°20 | 12°18 | 11°34 | 14°14 | 0°20 | T 19 | |
| F 20 | 5 54 57 | 27°57'36 | 17°17 | 10°8 | 7°14 | 17°20 | 11°48 | 18°6 | 2°14 | 25°18 | 25°20 | 12°R18 | 11°31 | 14°21 | 0°20 | F 20 | |
| S 21 | 5 58 53 | 28°58'34 | 29°29 | 11°41 | 8°30 | 18°2 | 12°1 | 18°9 | 2°15 | 25°16 | 25°20 | 12°17 | 11°28 | 14°27 | 0°21 | S 21 | |
| S 22 | 6 2 50 | 29°59'33 | 11♉59 | 13°13 | 9°45 | 18°44 | 12°13 | 18°13 | 2°16 | 25°14 | 25°20 | 12°14 | 11°24 | 14°34 | 0°21 | S 22 | |
| M23 | 6 6 46 | 1♌0°33 | 24°51 | 14°46 | 11°0 | 19°26 | 12°25 | 18°16 | 2°17 | 25°13 | 25°21 | 12°8 | 11°21 | 14°41 | 0°22 | M23 | |
| T 24 | 6 10 43 | 2°1'34 | 8♌6 | 16°18 | 12°15 | 20°8 | 12°38 | 18°19 | 2°18 | 25°11 | 25°21 | 11°59 | 11°18 | 14°47 | 0°22 | T 24 | |
| W25 | 6 14 40 | 3°2'36 | 21°45 | 17°49 | 13°30 | 20°51 | 12°50 | 18°22 | 2°19 | 25°9 | 25°22 | 11°47 | 11°15 | 14°54 | 0°23 | W25 | |
| T 26 | 6 18 36 | 4°3'39 | 5♌44 | 19°20 | 14°45 | 21°33 | 13°3 | 18°26 | 2°19 | 25°7 | 25°22 | 11°35 | 11°12 | 15°1 | 0°24 | T 26 | |
| F 27 | 6 22 33 | 5°4'43 | 20°0 | 20°51 | 16°1 | 22°15 | 13°15 | 18°29 | 2°20 | 25°6 | 25°22 | 11°22 | 11°9 | 15°7 | 0°25 | F 27 | |
| S 28 | 6 26 29 | 6°5'47 | 4♋26 | 22°20 | 17°16 | 22°58 | 13°28 | 18°33 | 2°20 | 25°4 | 25°23 | 11°11 | 11°5 | 15°14 | 0°26 | S 28 | |
| S 29 | 6 30 26 | 7°6'52 | 18°56 | 23°49 | 18°31 | 23°40 | 13°41 | 18°37 | 2°21 | 25°2 | 25°23 | 11°2 | 11°2 | 15°21 | 0°27 | S 29 | |
| M30 | 6 34 22 | 8°7'56 | 3♌23 | 25°17 | 19°46 | 24°22 | 13°54 | 18°41 | 2°21 | 25°1 | 25°24 | 10°56 | 10°59 | 15°27 | 0°28 | M30 | |
| T 31 | 6 38 19 | 9♌0°1 | 17♌43 | 26♌44 | 21♌1 | 25♌5 | 14♌7 | 18♌45 | 2°22 | 24♉59 | 25♌24 | 10♌53 | 10♌56 | 15♉34 | 0♌29 | T 31 | |

Delta T = 17m23s

ASTRODIENST EPHEMERIS for the year 2555
geocentric

JANUARY 2555

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|---------|--------|-------|--------|-------|-------|-------|---------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| W 1 | 6 42 16 | 10♁10'07 | 1♃54 | 28♁ 9 | 22♁17 | 25♁47 | 14♁20 | 18♁49 | 2♁22 | 24♁R58 | 25♁25 | 10♁R52 | 10♁53 | 15♁41 | 0♃30 | W 1 | | | | | | | | |
| T 2 | 6 46 12 | 11°11'12 | 15°53 | 29°33 | 23°32 | 26°30 | 14°33 | 18°53 | 2°22 | 24♁II56 | 25°25 | 10♁52 | 10°49 | 15°47 | 0°31 | T 2 | | | | | | | | |
| F 3 | 6 50 9 | 12°12'17 | 29°42 | 0♁54 | 24°47 | 27°12 | 14°46 | 18°57 | 2°23 | 24°54 | 25°26 | 10°51 | 10°46 | 15°54 | 0°32 | F 3 | | | | | | | | |
| S 4 | 6 54 5 | 13°13'23 | 13♁21 | 2°13 | 26° 2 | 27°54 | 14°59 | 19° 1 | 2°23 | 24°53 | 25°27 | 10°49 | 10°43 | 16° 1 | 0°34 | S 4 | | | | | | | | |
| S 5 | 6 58 2 | 14°14'29 | 26°49 | 3°29 | 27°18 | 28°37 | 15°12 | 19° 6 | 2°23 | 24°51 | 25°27 | 10°44 | 10°40 | 16° 7 | 0°35 | S 5 | | | | | | | | |
| M 6 | 7 1 58 | 15°15'34 | 10♁II 7 | 4°41 | 28°33 | 29°19 | 15°25 | 19°10 | 2°23 | 24°50 | 25°28 | 10°36 | 10°37 | 16°14 | 0°36 | M 6 | | | | | | | | |
| T 7 | 7 5 55 | 16°16'40 | 23°15 | 5°49 | 29°48 | 0♃ 2 | 15°39 | 19°15 | 2°R23 | 24°48 | 25°29 | 10°25 | 10°34 | 16°21 | 0°38 | T 7 | | | | | | | | |
| W 8 | 7 9 51 | 17°17'46 | 6♁12 | 6°53 | 1♁ 4 | 0°44 | 15°52 | 19°19 | 2°23 | 24°46 | 25°29 | 10°11 | 10°30 | 16°27 | 0°39 | W 8 | | | | | | | | |
| T 9 | 7 13 48 | 18°18'52 | 18°55 | 7°51 | 2°19 | 1°27 | 16° 5 | 19°24 | 2°23 | 24°45 | 25°30 | 9°57 | 10°27 | 16°34 | 0°41 | T 9 | | | | | | | | |
| F 10 | 7 17 45 | 19°19'59 | 1♁26 | 8°44 | 3°34 | 2° 9 | 16°19 | 19°29 | 2°23 | 24°43 | 25°31 | 9°44 | 10°24 | 16°41 | 0°42 | F 10 | | | | | | | | |
| S 11 | 7 21 41 | 20°21'05 | 13°44 | 9°29 | 4°49 | 2°52 | 16°32 | 19°33 | 2°23 | 24°42 | 25°32 | 9°31 | 10°21 | 16°47 | 0°44 | S 11 | | | | | | | | |
| S 12 | 7 25 38 | 21°22'12 | 25°51 | 10° 6 | 6° 5 | 3°34 | 16°46 | 19°38 | 2°22 | 24°40 | 25°32 | 9°21 | 10°18 | 16°54 | 0°46 | S 12 | | | | | | | | |
| M13 | 7 29 34 | 22°23'18 | 7♁47 | 10°34 | 7°20 | 4°17 | 17° 0 | 19°43 | 2°22 | 24°39 | 25°33 | 9°15 | 10°15 | 17° 1 | 0°48 | M13 | | | | | | | | |
| T 14 | 7 33 31 | 23°24'25 | 19°36 | 10°53 | 8°35 | 4°59 | 17°13 | 19°48 | 2°22 | 24°37 | 25°34 | 9°10 | 10°11 | 17° 7 | 0°49 | T 14 | | | | | | | | |
| W15 | 7 37 27 | 24°25'32 | 1♁23 | 11°R 1 | 9°51 | 5°42 | 17°27 | 19°53 | 2°21 | 24°36 | 25°35 | 9° 9 | 10° 8 | 17°14 | 0°51 | W15 | | | | | | | | |
| T 16 | 7 41 24 | 25°26'40 | 13°12 | 10°58 | 11° 6 | 6°25 | 17°41 | 19°59 | 2°21 | 24°35 | 25°36 | 9°D 8 | 10° 5 | 17°20 | 0°53 | T 16 | | | | | | | | |
| F 17 | 7 45 20 | 26°27'47 | 25° 8 | 10°43 | 12°21 | 7° 7 | 17°54 | 20° 4 | 2°20 | 24°33 | 25°37 | 9°R 9 | 10° 2 | 17°27 | 0°55 | F 17 | | | | | | | | |
| S 18 | 7 49 17 | 27°28'55 | 7♁18 | 10°16 | 13°37 | 7°50 | 18° 8 | 20° 9 | 2°20 | 24°32 | 25°38 | 9° 8 | 9°59 | 17°34 | 0°57 | S 18 | | | | | | | | |
| S 19 | 7 53 14 | 28°30'03 | 19°45 | 9°38 | 14°52 | 8°32 | 18°22 | 20°15 | 2°19 | 24°30 | 25°39 | 9° 6 | 9°55 | 17°40 | 0°59 | S 19 | | | | | | | | |
| M20 | 7 57 10 | 29°31'10 | 2♁37 | 8°48 | 16° 7 | 9°15 | 18°36 | 20°20 | 2°18 | 24°29 | 25°40 | 9° 2 | 9°52 | 17°47 | 1° 1 | M20 | | | | | | | | |
| T 21 | 8 1 7 | 0♁32'18 | 15°54 | 7°49 | 17°23 | 9°57 | 18°50 | 20°26 | 2°17 | 24°28 | 25°41 | 8°55 | 9°49 | 17°54 | 1° 3 | T 21 | | | | | | | | |
| W22 | 8 5 3 | 1°33'26 | 29°40 | 6°42 | 18°38 | 10°40 | 19° 4 | 20°31 | 2°17 | 24°27 | 25°42 | 8°45 | 9°46 | 18° 0 | 1° 5 | W22 | | | | | | | | |
| T 23 | 8 9 0 | 2°34'34 | 13♁52 | 5°28 | 19°53 | 11°22 | 19°18 | 20°37 | 2°16 | 24°25 | 25°43 | 8°35 | 9°43 | 18° 7 | 1° 8 | T 23 | | | | | | | | |
| F 24 | 8 12 56 | 3°35'41 | 28°27 | 4°11 | 21° 9 | 12° 5 | 19°32 | 20°42 | 2°15 | 24°24 | 25°44 | 8°24 | 9°40 | 18°14 | 1°10 | F 24 | | | | | | | | |
| S 25 | 8 16 53 | 4°36'48 | 13♁16 | 2°52 | 22°24 | 12°47 | 19°46 | 20°48 | 2°14 | 24°23 | 25°45 | 8°14 | 9°36 | 18°20 | 1°12 | S 25 | | | | | | | | |
| S 26 | 8 20 49 | 5°37'54 | 28°12 | 1°34 | 23°40 | 13°30 | 20° 0 | 20°54 | 2°13 | 24°22 | 25°46 | 8° 6 | 9°33 | 18°27 | 1°15 | S 26 | | | | | | | | |
| M27 | 8 24 46 | 6°39'00 | 13♁ 5 | 0°19 | 24°55 | 14°12 | 20°14 | 21° 0 | 2°12 | 24°20 | 25°47 | 8° 1 | 9°30 | 18°34 | 1°17 | M27 | | | | | | | | |
| T 28 | 8 28 43 | 7°40'05 | 27°48 | 29♁10 | 26°10 | 14°55 | 20°28 | 21° 6 | 2°11 | 24°19 | 25°48 | 7°59 | 9°27 | 18°40 | 1°19 | T 28 | | | | | | | | |
| W29 | 8 32 39 | 8°41'09 | 12♁16 | 28° 7 | 27°26 | 15°37 | 20°42 | 21°12 | 2° 9 | 24°18 | 25°49 | 7°D58 | 9°24 | 18°47 | 1°22 | W29 | | | | | | | | |
| T 30 | 8 36 36 | 9°42'12 | 26°25 | 27°13 | 28°41 | 16°20 | 20°57 | 21°18 | 2° 8 | 24°17 | 25°50 | 7°59 | 9°21 | 18°54 | 1°24 | T 30 | | | | | | | | |
| F 31 | 8 40 32 | 10♁43'15 | 10♁16 | 26♁27 | 29♁56 | 17°V 2 | 21♁11 | 21♁24 | 2♁ 7 | 24♁II16 | 25♁51 | 7°R59 | 9♁17 | 19♁ 0 | 1°V27 | F 31 | | | | | | | | |

Delta T = 17m23s

FEBRUARY 2555

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|---------|--------|-------|--------|-------|-------|-------|---------|-------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 8 44 29 | 11♁44'16 | 23♁48 | 25°R51 | 1♁12 | 17°V45 | 21♁25 | 21♁30 | 2°R 6 | 24°R15 | 25♁53 | 7°R59 | 9♁14 | 19♁ 7 | 1°V29 | S 1 | | | | | | | | |
| S 2 | 8 48 25 | 12°45'17 | 7♁II 4 | 25♁24 | 2°27 | 18°27 | 21°39 | 21°37 | 2♁ 4 | 24♁II14 | 25°54 | 7♁56 | 9°11 | 19°14 | 1°32 | S 2 | | | | | | | | |
| M 3 | 8 52 22 | 13°46'16 | 20° 6 | 25° 5 | 3°42 | 19° 9 | 21°53 | 21°43 | 2° 3 | 24°13 | 25°55 | 7°51 | 9° 8 | 19°20 | 1°35 | M 3 | | | | | | | | |
| T 4 | 8 56 18 | 14°47'15 | 2♁54 | 24°56 | 4°58 | 19°52 | 22° 8 | 21°49 | 2° 1 | 24°12 | 25°56 | 7°43 | 9° 5 | 19°27 | 1°37 | T 4 | | | | | | | | |
| W 5 | 9 0 15 | 15°48'12 | 15°30 | 24°D55 | 6°13 | 20°34 | 22°22 | 21°55 | 2° 0 | 24°11 | 25°58 | 7°34 | 9° 1 | 19°34 | 1°40 | W 5 | | | | | | | | |
| T 6 | 9 4 12 | 16°49'09 | 27°55 | 25° 1 | 7°28 | 21°17 | 22°36 | 22° 2 | 1°58 | 24°10 | 25°59 | 7°24 | 8°58 | 19°40 | 1°43 | T 6 | | | | | | | | |
| F 7 | 9 8 8 | 17°50'05 | 10♁II 1 | 25°15 | 8°43 | 21°59 | 22°51 | 22° 8 | 1°57 | 24° 9 | 26° 0 | 7°14 | 8°55 | 19°47 | 1°46 | F 7 | | | | | | | | |
| S 8 | 9 12 5 | 18°50'59 | 22°17 | 25°35 | 9°59 | 22°41 | 23° 5 | 22°15 | 1°55 | 24° 8 | 26° 1 | 7° 5 | 8°52 | 19°54 | 1°49 | S 8 | | | | | | | | |
| S 9 | 9 16 1 | 19°51'53 | 4♁16 | 26° 2 | 11°14 | 23°24 | 23°19 | 22°21 | 1°53 | 24° 8 | 26° 3 | 6°58 | 8°49 | 20° 0 | 1°52 | S 9 | | | | | | | | |
| M10 | 9 19 58 | 20°52'45 | 16° 7 | 26°34 | 12°29 | 24° 6 | 23°34 | 22°28 | 1°52 | 24° 7 | 26° 4 | 6°54 | 8°46 | 20° 7 | 1°54 | M10 | | | | | | | | |
| T 11 | 9 23 54 | 21°53'37 | 27°55 | 27°11 | 13°45 | 24°48 | 23°48 | 22°35 | 1°50 | 24° 6 | 26° 5 | 6°51 | 8°42 | 20°14 | 1°57 | T 11 | | | | | | | | |
| W12 | 9 27 51 | 22°54'28 | 9♁42 | 27°53 | 15° 0 | 25°30 | 24° 2 | 22°41 | 1°48 | 24° 5 | 26° 7 | 6°D51 | 8°39 | 20°20 | 2° 0 | W12 | | | | | | | | |
| T 13 | 9 31 47 | 23°55'18 | 21°31 | 28°39 | 16°15 | 26°13 | 24°16 | 22°48 | 1°46 | 24° 5 | 26° 8 | 6°52 | 8°36 | 20°27 | 2° 3 | T 13 | | | | | | | | |
| F 14 | 9 35 44 | 24°56'08 | 3♁27 | 29°29 | 17°30 | 26°55 | 24°31 | 22°55 | 1°44 | 24° 4 | 26° 9 | 6°53 | 8°33 | 20°33 | 2° 6 | F 14 | | | | | | | | |
| S 15 | 9 39 41 | 25°56'56 | 15°35 | 0♁22 | 18°46 | 27°37 | 24°45 | 23° 2 | 1°42 | 24° 3 | 26°11 | 6°55 | 8°30 | 20°40 | 2° 9 | S 15 | | | | | | | | |
| S 16 | 9 43 37 | 26°57'43 | 27°59 | 1°18 | 20° 1 | 28°19 | 24°59 | 23° 8 | 1°40 | 24° 3 | 26°12 | 6°R55 | 8°27 | 20°47 | 2°13 | S 16 | | | | | | | | |
| M17 | 9 47 34 | 27°58'30 | 10♁45 | 2°18 | 21°16 | 29° 1 | 25°14 | 23°15 | 1°38 | 24° 2 | 26°14 | 6°54 | 8°23 | 20°53 | 2°16 | M17 | | | | | | | | |
| T 18 | 9 51 30 | 28°59'16 | 23°57 | 3°20 | 22°32 | 29°44 | 25°28 | 23°22 | 1°36 | 24° 2 | 26°15 | 6°52 | 8°20 | 21° 0 | 2°19 | T 18 | | | | | | | | |
| W19 | 9 55 27 | 0♁ 0'01 | 7♁38 | 4°25 | 23°47 | 0♁26 | 25°42 | 23°29 | 1°34 | 24° 1 | 26°16 | 6°48 | 8°17 | 21° 7 | 2°22 | W19 | | | | | | | | |
| T 20 | 9 59 23 | 1° 0'44 | 21°47 | 5°32 | 25° 2 | 1° 8 | 25°57 | 23°36 | 1°32 | 24° 1 | 26°18 | 6°42 | 8°14 | 21°13 | 2°25 | T 20 | | | | | | | | |
| F 21 | 10 3 20 | 2° 1'27 | 6♁22 | 6°41 | 26°17 | 1°50 | 26°11 | 23°43 | 1°30 | 24° 0 | 26°19 | 6°37 | 8°11 | 21°20 | 2°28 | F 21 | | | | | | | | |
| S 22 | 10 7 16 | 3° 2'08 | 21°19 | 7°52 | 27°33 | 2°32 | 26°25 | 23°50 | 1°28 | 24° 0 | 26°21 | 6°32 | 8° 7 | 21°27 | 2°32 | S 22 | | | | | | | | |
| S 23 | 10 11 13 | 4° 2'49 | 6♁28 | 9° 4 | 28°48 | 3°14 | 26°40 | 23°57 | 1°26 | 24° 0 | 26°22 | 6°28 | 8° 4 | 21°33 | 2°35 | S 23 | | | | | | | | |
| M24 | 10 15 9 | 5° 3'27 | 21°39 | 10°19 | 0♁ 3 | 3°56 | 26°54 | 24° 4 | 1°23 | 23°59 | 26°24 | 6°25 | 8° 1 | 21°40 | 2°38 | M24 | | | | | | | | |
| T 25 | 10 19 6 | 6° 4'04 | 6°V43 | 11°35 | 1°18 | 4°38 | 27° 8 | 24°11 | 1°21 | 23°59 | 26°25 | 6°D25 | 7°58 | 21°47 | 2°42 | T 25 | | | | | | | | |
| W26 | 10 23 3 | 7° 4'40 | 21°32 | 12°53 | 2°33 | 5°20 | 27°22 | 24°18 | 1°19 | 23°59 | 26°27 | 6°25 | 7°55 | 21°53 | 2°45 | W26 | | | | | | | | |
| T 27 | 10 26 59 | 8° 5'14 | 6♁ 0 | 14°12 | 3°49 | 6° 2 | 27°37 | 24°25 | 1°16 | 23°58 | 26°28 | 6°27 | 7°52 | 22° 0 | 2°48 | T 27 | | | | | | | | |
| F 28 | 10 30 56 | 9♁ 5'46 | 20♁ 4 | 15♁32 | 5♁ 4 | 6♁44 | 27♁51 | 24♁33 | 1♁14 | 23♁II58 | 26♁30 | 6♁28 | 7♁48 | 22♁ 7 | 2°V52 | F 28 | | | | | | | | |

Delta T = 17m23s

ASTRODIENST EPHEMERIS for the year 2555
geocentric

MARCH 2555

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|-------|------|------|---|---|---|---|---|---|---|-----|
| S 1 | 10 34 52 | 10♈ 6'16 | 3♏44 | 16♋54 | 6♉19 | 7♊26 | 28♌5 | 24♈40 | 1°R12 | 23°R58 | 26♈31 | 6♉29 | 7♊45 | 22♏13 | 2♑55 | S 1 | | | | | | | | |
| S 2 | 10 38 49 | 11° 6'45 | 17° 0 | 18°17 | 7°34 | 8° 8 | 28°19 | 24°47 | 1♉ 9 | 23♏58 | 26°33 | 6°R29 | 7°42 | 22°20 | 2°59 | S 2 | | | | | | | | |
| M 3 | 10 42 45 | 12° 7'11 | 29°56 | 19°42 | 8°49 | 8°49 | 28°33 | 24°54 | 1° 7 | 23°58 | 26°34 | 6°28 | 7°39 | 22°27 | 3° 2 | M 3 | | | | | | | | |
| T 4 | 10 46 42 | 13° 7'36 | 12♌34 | 21° 7 | 10° 4 | 9°31 | 28°48 | 25° 1 | 1° 4 | 23°58 | 26°36 | 6°26 | 7°36 | 22°33 | 3° 5 | T 4 | | | | | | | | |
| W 5 | 10 50 38 | 14° 7'59 | 24°58 | 22°34 | 11°19 | 10°13 | 29° 2 | 25° 9 | 1° 2 | 23°D58 | 26°37 | 6°23 | 7°32 | 22°40 | 3° 9 | W 5 | | | | | | | | |
| T 6 | 10 54 35 | 15° 8'20 | 7♎10 | 24° 2 | 12°34 | 10°55 | 29°16 | 25°16 | 0°59 | 23°58 | 26°39 | 6°19 | 7°29 | 22°46 | 3°12 | T 6 | | | | | | | | |
| F 7 | 10 58 32 | 16° 8'39 | 19°12 | 25°30 | 13°49 | 11°36 | 29°30 | 25°23 | 0°57 | 23°58 | 26°41 | 6°15 | 7°26 | 22°53 | 3°16 | F 7 | | | | | | | | |
| S 8 | 11 2 28 | 17° 8'57 | 1♏ 8 | 27° 0 | 15° 4 | 12°18 | 29°44 | 25°30 | 0°54 | 23°58 | 26°42 | 6°12 | 7°23 | 23° 0 | 3°19 | S 8 | | | | | | | | |
| S 9 | 11 6 25 | 18° 9'12 | 13° 0 | 28°32 | 16°20 | 13° 0 | 29°58 | 25°38 | 0°52 | 23°58 | 26°44 | 6°10 | 7°20 | 23° 6 | 3°23 | S 9 | | | | | | | | |
| M10 | 11 10 21 | 19° 9'26 | 24°48 | 0♈ 4 | 17°35 | 13°41 | 0♉12 | 25°45 | 0°49 | 23°58 | 26°45 | 6° 9 | 7°17 | 23°13 | 3°26 | M10 | | | | | | | | |
| T 11 | 11 14 18 | 20° 9'38 | 6♌36 | 1°37 | 18°50 | 14°23 | 0°26 | 25°52 | 0°47 | 23°58 | 26°47 | 6°D 8 | 7°13 | 23°20 | 3°30 | T 11 | | | | | | | | |
| W12 | 11 18 14 | 21° 9'49 | 18°25 | 3°11 | 20° 5 | 15° 5 | 0°40 | 26° 0 | 0°44 | 23°59 | 26°48 | 6° 9 | 7°10 | 23°26 | 3°34 | W12 | | | | | | | | |
| T 13 | 11 22 11 | 22° 9'58 | 0♏19 | 4°47 | 21°20 | 15°46 | 0°54 | 26° 7 | 0°42 | 23°59 | 26°50 | 6°10 | 7° 7 | 23°33 | 3°37 | T 13 | | | | | | | | |
| F 14 | 11 26 7 | 23°10'05 | 12°20 | 6°23 | 22°35 | 16°28 | 1° 7 | 26°14 | 0°39 | 23°59 | 26°52 | 6°11 | 7° 4 | 23°40 | 3°41 | F 14 | | | | | | | | |
| S 15 | 11 30 4 | 24°10'10 | 24°31 | 8° 1 | 23°49 | 17° 9 | 1°21 | 26°22 | 0°36 | 23°59 | 26°53 | 6°12 | 7° 1 | 23°46 | 3°44 | S 15 | | | | | | | | |
| S 16 | 11 34 1 | 25°10'15 | 6♌57 | 9°39 | 25° 4 | 17°51 | 1°35 | 26°29 | 0°34 | 24° 0 | 26°55 | 6°13 | 6°58 | 23°53 | 3°48 | S 16 | | | | | | | | |
| M17 | 11 37 57 | 26°10'17 | 19°41 | 11°19 | 26°19 | 18°32 | 1°49 | 26°36 | 0°31 | 24° 0 | 26°56 | 6°14 | 6°54 | 24° 0 | 3°52 | M17 | | | | | | | | |
| T 18 | 11 41 54 | 27°10'18 | 2♌47 | 13° 0 | 27°34 | 19°13 | 2° 2 | 26°44 | 0°29 | 24° 1 | 26°58 | 6°R14 | 6°51 | 24° 6 | 3°55 | T 18 | | | | | | | | |
| W19 | 11 45 50 | 28°10'18 | 16°18 | 14°42 | 28°49 | 19°55 | 2°16 | 26°51 | 0°26 | 24° 1 | 26°59 | 6°13 | 6°48 | 24°13 | 3°59 | W19 | | | | | | | | |
| T 20 | 11 49 47 | 29°10'16 | 0♌15 | 16°25 | 0♑ 4 | 20°36 | 2°30 | 26°58 | 0°23 | 24° 1 | 27° 1 | 6°13 | 6°45 | 24°20 | 4° 2 | T 20 | | | | | | | | |
| F 21 | 11 53 43 | 0♑10'12 | 14°38 | 18° 9 | 1°19 | 21°17 | 2°43 | 27° 6 | 0°21 | 24° 2 | 27° 3 | 6°12 | 6°42 | 24°26 | 4° 6 | F 21 | | | | | | | | |
| S 22 | 11 57 40 | 1°10'07 | 29°24 | 19°54 | 2°34 | 21°59 | 2°57 | 27°13 | 0°18 | 24° 3 | 27° 4 | 6°11 | 6°38 | 24°33 | 4°10 | S 22 | | | | | | | | |
| S 23 | 12 1 36 | 2° 9'59 | 14♈27 | 21°41 | 3°49 | 22°40 | 3°10 | 27°20 | 0°16 | 24° 3 | 27° 6 | 6°11 | 6°35 | 24°39 | 4°13 | S 23 | | | | | | | | |
| M24 | 12 5 33 | 3° 9'50 | 29°39 | 23°29 | 5° 4 | 23°21 | 3°24 | 27°28 | 0°13 | 24° 4 | 27° 7 | 6°D11 | 6°32 | 24°46 | 4°17 | M24 | | | | | | | | |
| T 25 | 12 9 29 | 4° 9'39 | 14♑50 | 25°18 | 6°18 | 24° 2 | 3°37 | 27°35 | 0°10 | 24° 4 | 27° 9 | 6°11 | 6°29 | 24°53 | 4°21 | T 25 | | | | | | | | |
| W26 | 12 13 26 | 5° 9'26 | 29°51 | 27° 8 | 7°33 | 24°44 | 3°50 | 27°42 | 0° 8 | 24° 5 | 27°10 | 6°11 | 6°26 | 24°59 | 4°24 | W26 | | | | | | | | |
| T 27 | 12 17 23 | 6° 9'11 | 14♌33 | 28°59 | 8°48 | 25°25 | 4° 4 | 27°50 | 0° 5 | 24° 6 | 27°12 | 6°R11 | 6°23 | 25° 6 | 4°28 | T 27 | | | | | | | | |
| F 28 | 12 21 19 | 7° 8'54 | 28°52 | 0♑52 | 10° 3 | 26° 6 | 4°17 | 27°57 | 0° 2 | 24° 7 | 27°14 | 6°11 | 6°19 | 25°13 | 4°31 | F 28 | | | | | | | | |
| S 29 | 12 25 16 | 8° 8'35 | 12♏44 | 2°46 | 11°17 | 26°47 | 4°30 | 28° 4 | 29♏59 | 24° 7 | 27°15 | 6°11 | 6°16 | 25°19 | 4°35 | S 29 | | | | | | | | |
| S 30 | 12 29 12 | 9° 8'13 | 26° 9 | 4°41 | 12°32 | 27°28 | 4°43 | 28°11 | 29°57 | 24° 8 | 27°17 | 6°10 | 6°13 | 25°26 | 4°39 | S 30 | | | | | | | | |
| M31 | 12 33 9 | 10♑ 7'49 | 9♌ 9 | 6♑37 | 13♑47 | 28♌ 9 | 4♈56 | 28♈19 | 29♏55 | 24♏ 9 | 27♈18 | 6°D10 | 6♌10 | 25♏33 | 4♑42 | M31 | | | | | | | | |

Delta T = 17m24s

APRIL 2555

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|------|------|---|---|---|---|---|---|---|-----|
| T 1 | 12 37 5 | 11♑ 7'23 | 21♌47 | 8♑34 | 15♑ 1 | 28♌50 | 5♈ 9 | 28♈26 | 29°R52 | 24♏10 | 27♈20 | 6♉10 | 6♌ 7 | 25♏39 | 4♑46 | T 1 | | | | | | | | |
| W 2 | 12 41 2 | 12° 6'55 | 4♎ 7 | 10°32 | 16°16 | 29°31 | 5°22 | 28°33 | 29♏50 | 24°11 | 27°21 | 6°11 | 6° 3 | 25°46 | 4°50 | W 2 | | | | | | | | |
| T 3 | 12 44 58 | 13° 6'24 | 16°12 | 12°32 | 17°31 | 0♏12 | 5°35 | 28°40 | 29°47 | 24°12 | 27°23 | 6°11 | 6° 0 | 25°53 | 4°53 | T 3 | | | | | | | | |
| F 4 | 12 48 55 | 14° 5'51 | 28° 8 | 14°32 | 18°45 | 0°53 | 5°48 | 28°47 | 29°44 | 24°13 | 27°24 | 6°12 | 5°57 | 25°59 | 4°57 | F 4 | | | | | | | | |
| S 5 | 12 52 52 | 15° 5'16 | 9♏58 | 16°33 | 20° 0 | 1°34 | 6° 0 | 28°55 | 29°42 | 24°14 | 27°26 | 6°13 | 5°54 | 26° 6 | 5° 0 | S 5 | | | | | | | | |
| S 6 | 12 56 48 | 16° 4'39 | 21°46 | 18°35 | 21°14 | 2°14 | 6°13 | 29° 2 | 29°39 | 24°15 | 27°27 | 6°14 | 5°51 | 26°13 | 5° 4 | S 6 | | | | | | | | |
| M 7 | 13 0 45 | 17° 3'59 | 3♌33 | 20°37 | 22°29 | 2°55 | 6°26 | 29° 9 | 29°37 | 24°16 | 27°29 | 6°R14 | 5°48 | 26°19 | 5° 7 | M 7 | | | | | | | | |
| T 8 | 13 4 41 | 18° 3'17 | 15°24 | 22°40 | 23°44 | 3°36 | 6°38 | 29°16 | 29°35 | 24°17 | 27°30 | 6°14 | 5°44 | 26°26 | 5°11 | T 8 | | | | | | | | |
| W 9 | 13 8 38 | 19° 2'34 | 27°20 | 24°43 | 24°58 | 4°17 | 6°50 | 29°23 | 29°32 | 24°18 | 27°32 | 6°13 | 5°41 | 26°32 | 5°15 | W 9 | | | | | | | | |
| T 10 | 13 12 34 | 20° 1'48 | 9♏23 | 26°46 | 26°13 | 4°57 | 7° 3 | 29°30 | 29°30 | 24°19 | 27°33 | 6°12 | 5°38 | 26°39 | 5°18 | T 10 | | | | | | | | |
| F 11 | 13 16 31 | 21° 1'01 | 21°34 | 28°49 | 27°27 | 5°38 | 7°15 | 29°37 | 29°27 | 24°21 | 27°35 | 6°10 | 5°35 | 26°46 | 5°22 | F 11 | | | | | | | | |
| S 12 | 13 20 27 | 22° 0'12 | 3♌57 | 0♌51 | 28°41 | 6°19 | 7°27 | 29°44 | 29°25 | 24°22 | 27°36 | 6° 7 | 5°32 | 26°52 | 5°25 | S 12 | | | | | | | | |
| S 13 | 13 24 24 | 22°59'20 | 16°33 | 2°53 | 29°56 | 6°59 | 7°40 | 29°51 | 29°23 | 24°23 | 27°38 | 6° 5 | 5°29 | 26°59 | 5°29 | S 13 | | | | | | | | |
| M14 | 13 28 21 | 23°58'28 | 29°23 | 4°53 | 1♌10 | 7°40 | 7°52 | 29°58 | 29°20 | 24°24 | 27°39 | 6° 3 | 5°25 | 27° 6 | 5°32 | M14 | | | | | | | | |
| T 15 | 13 32 17 | 24°57'33 | 12♌30 | 6°51 | 2°25 | 8°20 | 8° 4 | 0♑ 5 | 29°18 | 24°26 | 27°41 | 6° 2 | 5°22 | 27°12 | 5°36 | T 15 | | | | | | | | |
| W16 | 13 36 14 | 25°56'37 | 25°57 | 8°47 | 3°39 | 9° 1 | 8°15 | 0°12 | 29°16 | 24°27 | 27°42 | 6°D 1 | 5°19 | 27°19 | 5°39 | W16 | | | | | | | | |
| T 17 | 13 40 10 | 26°55'39 | 9♌44 | 10°41 | 4°53 | 9°41 | 8°27 | 0°19 | 29°13 | 24°28 | 27°43 | 6° 2 | 5°16 | 27°26 | 5°43 | T 17 | | | | | | | | |
| F 18 | 13 44 7 | 27°54'39 | 23°51 | 12°33 | 6° 8 | 10°22 | 8°39 | 0°25 | 29°11 | 24°30 | 27°45 | 6° 3 | 5°13 | 27°32 | 5°46 | F 18 | | | | | | | | |
| S 19 | 13 48 3 | 28°53'37 | 8♈18 | 14°21 | 7°22 | 11° 2 | 8°51 | 0°32 | 29° 9 | 24°31 | 27°46 | 6° 4 | 5° 9 | 27°39 | 5°49 | S 19 | | | | | | | | |
| S 20 | 13 52 0 | 29°52'34 | 23° 2 | 16° 6 | 8°36 | 11°43 | 9° 2 | 0°39 | 29° 7 | 24°32 | 27°48 | 6° 5 | 5° 6 | 27°46 | 5°53 | S 20 | | | | | | | | |
| M21 | 13 55 56 | 0♌51'29 | 7♑58 | 17°47 | 9°50 | 12°23 | 9°14 | 0°46 | 29° 5 | 24°34 | 27°49 | 6°R 6 | 5° 3 | 27°52 | 5°56 | M21 | | | | | | | | |
| T 22 | 13 59 53 | 1°50'22 | 22°58 | 19°24 | 11° 5 | 13° 3 | 9°25 | 0°52 | 29° 3 | 24°35 | 27°50 | 6° 5 | 5° 0 | 27°59 | 5°59 | T 22 | | | | | | | | |
| W23 | 14 3 49 | 2°49'13 | 7♌53 | 20°57 | 12°19 | 13°44 | 9°36 | 0°59 | 29° 1 | 24°37 | 27°52 | 6° 3 | 4°57 | 28° 5 | 6° 3 | W23 | | | | | | | | |
| T 24 | 14 7 46 | 3°48'02 | 22°37 | 22°25 | 13°33 | 14°24 | 9°48 | 1° 6 | 28°59 | 24°38 | 27°53 | 6° 0 | 4°54 | 28°12 | 6° 6 | T 24 | | | | | | | | |
| F 25 | 14 11 43 | 4°46'49 | 7♏ 1 | 23°49 | 14°47 | 15° 4 | 9°59 | 1°12 | 28°57 | 24°40 | 27°54 | 5°55 | 4°50 | 28°19 | 6° 9 | F 25 | | | | | | | | |
| S 26 | 14 15 39 | 5°45'35 | 21° 0 | 25° 8 | 16° 1 | 15°45 | 10°10 | 1°19 | 28°55 | 24°42 | 27°56 | 5°51 | 4°47 | 28°25 | 6°13 | S 26 | | | | | | | | |
| S 27 | 14 19 36 | 6°44'17 | 4♌33 | 26°21 | 17°16 | 16°25 | 10°21 | 1°25 | 28°53 | 24°43 | 27°57 | 5°47 | 4°44 | 28°32 | 6°16 | S 27 | | | | | | | | |
| M28 | 14 23 32 | 7°42'58 | 17°39 | 27°30 | 18°30 | 17° 5 | 10°32 | 1°32 | 28°51 | 24°45 | 27°58 | 5°44 | 4°41 | 28°39 | 6°19 | M28 | | | | | | | | |
| T 29 | 14 27 29 | 8°41'37 | 0♏21 | 28°33 | 19°44 | 17°45 | 10°42 | 1°38 | 28°49 | 24°47 | 27°59 | 5°42 | 4°38 | 28°45 | 6°22 | T 29 | | | | | | | | |
| W30 | 14 31 25 | 9♌40'13 | 12♏42 | 29♌31 | 20♌58 | 18♏25 | 10♈53 | 1°44 | 28♏47 | 24♏48 | 28♈ 1 | 5°D42 | 4♌35 | 28♏52 | 6♑25 | W30 | | | | | | | | |

Delta T = 17m24s

ASTRODIENST EPHEMERIS for the year 2555
geocentric

MAY 2555

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|-------|------|
| T 1 | 14 35 22 | 10♁38'47 | 24♁47 | 0♁23 | 22♁12 | 19♁5 | 11♁3 | 1♁51 | 28°R46 | 24♁50 | 28♁2 | 5♁43 | 4♁31 | 28♁59 | 6♁29 | T 1 |
| F 2 | 14 39 18 | 11°37'19 | 6♁42 | 1° 9 | 23°26 | 19°45 | 11°14 | 1°57 | 28♁44 | 24°52 | 28° 3 | 5°45 | 4°28 | 29° 5 | 6°32 | F 2 |
| S 3 | 14 43 15 | 12°35'49 | 18°30 | 1°50 | 24°40 | 20°25 | 11°24 | 2° 3 | 28°42 | 24°53 | 28° 4 | 5°46 | 4°25 | 29°12 | 6°35 | S 3 |
| S 4 | 14 47 12 | 13°34'17 | 0♁17 | 2°25 | 25°54 | 21° 5 | 11°34 | 2° 9 | 28°41 | 24°55 | 28° 6 | 5°R47 | 4°22 | 29°19 | 6°38 | S 4 |
| M 5 | 14 51 8 | 14°32'42 | 12° 6 | 2°55 | 27° 8 | 21°45 | 11°44 | 2°15 | 28°39 | 24°57 | 28° 7 | 5°47 | 4°19 | 29°25 | 6°41 | M 5 |
| T 6 | 14 55 5 | 15°31'06 | 24° 2 | 3°19 | 28°22 | 22°25 | 11°54 | 2°21 | 28°37 | 24°59 | 28° 8 | 5°46 | 4°15 | 29°32 | 6°44 | T 6 |
| W 7 | 14 59 1 | 16°29'28 | 6♁7 | 3°37 | 29°35 | 23° 5 | 12° 4 | 2°27 | 28°36 | 25° 1 | 28° 9 | 5°42 | 4°12 | 29°39 | 6°47 | W 7 |
| T 8 | 15 2 58 | 17°27'48 | 18°22 | 3°49 | 0♁49 | 23°45 | 12°14 | 2°33 | 28°34 | 25° 2 | 28°10 | 5°37 | 4° 9 | 29°45 | 6°50 | T 8 |
| F 9 | 15 6 54 | 18°26'06 | 0♁50 | 3°56 | 2° 3 | 24°25 | 12°23 | 2°39 | 28°33 | 25° 4 | 28°11 | 5°30 | 4° 6 | 29°52 | 6°53 | F 9 |
| S 10 | 15 10 51 | 19°24'23 | 13°30 | 3°R57 | 3°17 | 25° 4 | 12°33 | 2°45 | 28°32 | 25° 6 | 28°12 | 5°22 | 4° 3 | 29°58 | 6°56 | S 10 |
| S 11 | 15 14 47 | 20°22'38 | 26°23 | 3°53 | 4°31 | 25°44 | 12°42 | 2°51 | 28°30 | 25° 8 | 28°13 | 5°14 | 4° 0 | 0♁5 | 6°58 | S 11 |
| M12 | 15 18 44 | 21°20'51 | 9♁29 | 3°44 | 5°44 | 26°24 | 12°52 | 2°56 | 28°29 | 25°10 | 28°14 | 5° 7 | 3°56 | 0°12 | 7° 1 | M12 |
| T 13 | 15 22 41 | 22°19'03 | 22°48 | 3°30 | 6°58 | 27° 4 | 13° 1 | 3° 2 | 28°28 | 25°12 | 28°15 | 5° 2 | 3°53 | 0°18 | 7° 4 | T 13 |
| W14 | 15 26 37 | 23°17'14 | 6♁21 | 3°11 | 8°12 | 27°43 | 13°10 | 3° 8 | 28°27 | 25°14 | 28°16 | 4°59 | 3°50 | 0°25 | 7° 7 | W14 |
| T 15 | 15 30 34 | 24°15'23 | 20° 6 | 2°49 | 9°26 | 28°23 | 13°19 | 3°13 | 28°26 | 25°16 | 28°17 | 4°D57 | 3°47 | 0°32 | 7°10 | T 15 |
| F 16 | 15 34 30 | 25°13'30 | 4♁5 | 2°23 | 10°39 | 29° 3 | 13°27 | 3°19 | 28°24 | 25°18 | 28°18 | 4°58 | 3°44 | 0°38 | 7°12 | F 16 |
| S 17 | 15 38 27 | 26°11'37 | 18°17 | 1°53 | 11°53 | 29°42 | 13°36 | 3°24 | 28°23 | 25°20 | 28°19 | 4°58 | 3°40 | 0°45 | 7°15 | S 17 |
| S 18 | 15 42 23 | 27° 9'42 | 2♁40 | 1°22 | 13° 7 | 0♁22 | 13°45 | 3°29 | 28°22 | 25°22 | 28°20 | 4°R59 | 3°37 | 0°52 | 7°17 | S 18 |
| M19 | 15 46 20 | 28° 7'45 | 17°12 | 0°48 | 14°20 | 1° 1 | 13°53 | 3°35 | 28°22 | 25°24 | 28°21 | 4°59 | 3°34 | 0°58 | 7°20 | M19 |
| T 20 | 15 50 16 | 29° 5'47 | 1♁50 | 0°12 | 15°34 | 1°41 | 14° 1 | 3°40 | 28°21 | 25°26 | 28°22 | 4°56 | 3°31 | 1° 5 | 7°23 | T 20 |
| W21 | 15 54 13 | 0♁34 | 16°26 | 29♁36 | 16°47 | 2°21 | 14° 9 | 3°45 | 28°20 | 25°28 | 28°23 | 4°51 | 3°28 | 1°12 | 7°25 | W21 |
| T 22 | 15 58 10 | 1° 1'48 | 0♁54 | 29° 0 | 18° 1 | 3° 0 | 14°17 | 3°50 | 28°19 | 25°30 | 28°24 | 4°44 | 3°25 | 1°18 | 7°28 | T 22 |
| F 23 | 16 2 6 | 1°59'45 | 15° 9 | 28°25 | 19°14 | 3°39 | 14°25 | 3°55 | 28°18 | 25°32 | 28°25 | 4°35 | 3°21 | 1°25 | 7°30 | F 23 |
| S 24 | 16 6 3 | 2°57'42 | 29° 3 | 27°50 | 20°28 | 4°19 | 14°33 | 4° 0 | 28°18 | 25°34 | 28°26 | 4°25 | 3°18 | 1°31 | 7°32 | S 24 |
| S 25 | 16 9 59 | 3°55'36 | 12♁35 | 27°18 | 21°41 | 4°58 | 14°40 | 4° 5 | 28°17 | 25°36 | 28°26 | 4°16 | 3°15 | 1°38 | 7°35 | S 25 |
| M26 | 16 13 56 | 4°53'30 | 25°42 | 26°47 | 22°55 | 5°38 | 14°48 | 4°10 | 28°16 | 25°38 | 28°27 | 4° 9 | 3°12 | 1°45 | 7°37 | M26 |
| T 27 | 16 17 52 | 5°51'21 | 8♁26 | 26°19 | 24° 8 | 6°17 | 14°55 | 4°14 | 28°16 | 25°41 | 28°28 | 4° 3 | 3° 9 | 1°51 | 7°39 | T 27 |
| W28 | 16 21 49 | 6°49'11 | 20°49 | 25°55 | 25°22 | 6°56 | 15° 2 | 4°19 | 28°15 | 25°43 | 28°29 | 4° 0 | 3° 6 | 1°58 | 7°41 | W28 |
| T 29 | 16 25 45 | 7°46'59 | 2♁55 | 25°33 | 26°35 | 7°36 | 15° 9 | 4°24 | 28°15 | 25°45 | 28°29 | 3°D58 | 3° 2 | 2° 5 | 7°44 | T 29 |
| F 30 | 16 29 42 | 8°44'45 | 14°50 | 25°16 | 27°48 | 8°15 | 15°16 | 4°28 | 28°15 | 25°47 | 28°30 | 3°58 | 2°59 | 2°11 | 7°46 | F 30 |
| S 31 | 16 33 39 | 9♁42'30 | 26♁39 | 25♁3 | 29♁2 | 8♁54 | 15♁22 | 4°V32 | 28♁14 | 25♁49 | 28♁31 | 3♁59 | 2♁56 | 2♁18 | 7°V48 | S 31 |

Delta T = 17m24s

JUNE 2555

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|-------|--------|-------|--------|-------|------|------|-------|------|
| S 1 | 16 37 35 | 10♁40'13 | 8♁27 | 24°R54 | 0♁15 | 9♁34 | 15♁29 | 4°V37 | 28°R14 | 25♁51 | 28♁31 | 3°R59 | 2♁53 | 2♁25 | 7°V50 | S 1 |
| M 2 | 16 41 32 | 11°37'54 | 20°19 | 24♁49 | 1°28 | 10°13 | 15°35 | 4°41 | 28♁14 | 25°54 | 28°32 | 3♁58 | 2°50 | 2°31 | 7°52 | M 2 |
| T 3 | 16 45 28 | 12°35'35 | 2♁20 | 24°D49 | 2°42 | 10°52 | 15°41 | 4°45 | 28°14 | 25°56 | 28°33 | 3°54 | 2°46 | 2°38 | 7°54 | T 3 |
| W 4 | 16 49 25 | 13°33'13 | 14°34 | 24°53 | 3°55 | 11°31 | 15°47 | 4°49 | 28°14 | 25°58 | 28°33 | 3°48 | 2°43 | 2°45 | 7°56 | W 4 |
| T 5 | 16 53 21 | 14°30'51 | 27° 2 | 25° 2 | 5° 8 | 12°10 | 15°53 | 4°53 | 28°D14 | 26° 0 | 28°34 | 3°40 | 2°40 | 2°51 | 7°58 | T 5 |
| F 6 | 16 57 18 | 15°28'27 | 9♁46 | 25°15 | 6°21 | 12°49 | 15°59 | 4°57 | 28°14 | 26° 2 | 28°34 | 3°29 | 2°37 | 2°58 | 7°59 | F 6 |
| S 7 | 17 1 14 | 16°26'02 | 22°47 | 25°32 | 7°34 | 13°28 | 16° 4 | 5° 1 | 28°14 | 26° 5 | 28°35 | 3°17 | 2°34 | 3° 4 | 8° 1 | S 7 |
| S 8 | 17 5 11 | 17°23'36 | 6♁2 | 25°54 | 8°47 | 14° 8 | 16°10 | 5° 5 | 28°14 | 26° 7 | 28°35 | 3° 6 | 2°31 | 3°11 | 8° 3 | S 8 |
| M 9 | 17 9 8 | 18°21'09 | 19°31 | 26°21 | 10° 0 | 14°47 | 16°15 | 5° 9 | 28°14 | 26° 9 | 28°36 | 2°55 | 2°27 | 3°18 | 8° 5 | M 9 |
| T 10 | 17 13 4 | 19°18'41 | 3♁11 | 26°51 | 11°13 | 15°26 | 16°20 | 5°12 | 28°14 | 26°11 | 28°36 | 2°46 | 2°24 | 3°24 | 8° 6 | T 10 |
| W11 | 17 17 1 | 20°16'12 | 16°59 | 27°26 | 12°26 | 16° 5 | 16°25 | 5°16 | 28°14 | 26°13 | 28°37 | 2°40 | 2°21 | 3°31 | 8° 8 | W11 |
| T 12 | 17 20 57 | 21°13'42 | 0♁55 | 28° 5 | 13°39 | 16°44 | 16°29 | 5°19 | 28°15 | 26°16 | 28°37 | 2°37 | 2°18 | 3°38 | 8° 9 | T 12 |
| F 13 | 17 24 54 | 22°11'12 | 14°56 | 28°48 | 14°52 | 17°23 | 16°34 | 5°23 | 28°15 | 26°18 | 28°37 | 2°36 | 2°15 | 3°44 | 8°11 | F 13 |
| S 14 | 17 28 50 | 23° 8'41 | 29° 2 | 29°34 | 16° 5 | 18° 2 | 16°38 | 5°26 | 28°16 | 26°20 | 28°38 | 2°36 | 2°12 | 3°51 | 8°12 | S 14 |
| S 15 | 17 32 47 | 24° 6'09 | 13°V12 | 0♁24 | 17°18 | 18°40 | 16°42 | 5°29 | 28°16 | 26°22 | 28°38 | 2°36 | 2° 8 | 3°58 | 8°14 | S 15 |
| M16 | 17 36 43 | 25° 3'37 | 27°25 | 1°18 | 18°31 | 19°19 | 16°46 | 5°32 | 28°17 | 26°25 | 28°38 | 2°34 | 2° 5 | 4° 4 | 8°15 | M16 |
| T 17 | 17 40 40 | 26° 1'04 | 11♁38 | 2°16 | 19°44 | 19°58 | 16°50 | 5°35 | 28°17 | 26°27 | 28°39 | 2°30 | 2° 2 | 4°11 | 8°16 | T 17 |
| W18 | 17 44 37 | 26°58'30 | 25°49 | 3°17 | 20°57 | 20°37 | 16°54 | 5°38 | 28°18 | 26°29 | 28°39 | 2°23 | 1°59 | 4°18 | 8°18 | W18 |
| T 19 | 17 48 33 | 27°55'56 | 9♁53 | 4°21 | 22°10 | 21°16 | 16°57 | 5°41 | 28°19 | 26°31 | 28°39 | 2°14 | 1°56 | 4°24 | 8°19 | T 19 |
| F 20 | 17 52 30 | 28°53'21 | 23°47 | 5°29 | 23°23 | 21°55 | 17° 1 | 5°44 | 28°19 | 26°34 | 28°39 | 2° 3 | 1°52 | 4°31 | 8°20 | F 20 |
| S 21 | 17 56 26 | 29°50'46 | 7♁25 | 6°40 | 24°35 | 22°34 | 17° 4 | 5°47 | 28°20 | 26°36 | 28°40 | 1°50 | 1°49 | 4°38 | 8°21 | S 21 |
| S 22 | 18 0 23 | 0♁48'09 | 20°45 | 7°54 | 25°48 | 23°12 | 17° 7 | 5°49 | 28°21 | 26°38 | 28°40 | 1°39 | 1°46 | 4°44 | 8°22 | S 22 |
| M23 | 18 4 19 | 1°45'32 | 3♁44 | 9°12 | 27° 1 | 23°51 | 17° 9 | 5°52 | 28°22 | 26°40 | 28°40 | 1°28 | 1°43 | 4°51 | 8°23 | M23 |
| T 24 | 18 8 16 | 2°42'54 | 16°23 | 10°32 | 28°13 | 24°30 | 17°12 | 5°54 | 28°23 | 26°43 | 28°40 | 1°20 | 1°40 | 4°57 | 8°24 | T 24 |
| W25 | 18 12 13 | 3°40'15 | 28°44 | 11°56 | 29°26 | 25° 9 | 17°14 | 5°56 | 28°24 | 26°45 | 28°40 | 1°14 | 1°37 | 5° 4 | 8°25 | W25 |
| T 26 | 18 16 9 | 4°37'35 | 10♁50 | 13°23 | 0♁39 | 25°47 | 17°16 | 5°58 | 28°25 | 26°47 | 28°40 | 1°11 | 1°33 | 5°11 | 8°26 | T 26 |
| F 27 | 18 20 6 | 5°34'55 | 22°45 | 14°53 | 1°51 | 26°26 | 17°18 | 6° 1 | 28°26 | 26°49 | 28°40 | 1°10 | 1°30 | 5°17 | 8°27 | F 27 |
| S 28 | 18 24 2 | 6°32'13 | 4♁34 | 16°26 | 3° 4 | 27° 5 | 17°20 | 6° 3 | 28°27 | 26°51 | 28°40 | 1°10 | 1°27 | 5°24 | 8°27 | S 28 |
| S 29 | 18 27 59 | 7°29'31 | 16°23 | 18° 2 | 4°16 | 27°44 | 17°22 | 6° 4 | 28°28 | 26°54 | 28°R40 | 1°10 | 1°24 | 5°31 | 8°28 | S 29 |
| M30 | 18 31 55 | 8♁26'48 | 28♁17 | 19♁41 | 5♁29 | 28♁22 | 17♁23 | 6°V6 | 28♁30 | 26♁56 | 28♁40 | 1♁9 | 1♁21 | 5♁37 | 8°V29 | M30 |

Delta T = 17m25s

ASTRODIENST EPHEMERIS for the year 2555
geocentric

JULY 2555

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|------|-------|------|-----|
| T 1 | 18 35 52 | 9♄24'04 | 10♍21 | 21♈22 | 6♁41 | 29♄1 | 17♃24 | 6♃8 | 28♎31 | 26♁58 | 28°R40 | 1°R 6 | 1♄18 | 5♄44 | 8♃29 | T 1 | |
| W 2 | 18 39 48 | 10°21'20 | 22°40 | 23° 7 | 7°54 | 29°39 | 17°25 | 6°10 | 28°32 | 27° 0 | 28♂40 | 1♄0 | 1°14 | 5°51 | 8°30 | W 2 | |
| T 3 | 18 43 45 | 11°18'35 | 5♁18 | 24°55 | 9° 6 | 0♁18 | 17°26 | 6°11 | 28°34 | 27° 2 | 28°40 | 0°52 | 1°11 | 5°57 | 8°30 | T 3 | |
| F 4 | 18 47 42 | 12°15'50 | 18°15 | 26°45 | 10°18 | 0°57 | 17°27 | 6°13 | 28°35 | 27° 5 | 28°40 | 0°41 | 1° 8 | 6° 4 | 8°31 | F 4 | |
| S 5 | 18 51 38 | 13°13'04 | 1♂33 | 28°39 | 11°31 | 1°35 | 17°27 | 6°14 | 28°37 | 27° 7 | 28°40 | 0°30 | 1° 5 | 6°11 | 8°31 | S 5 | |
| S 6 | 18 55 35 | 14°10'18 | 15°10 | 0♄34 | 12°43 | 2°14 | 17°27 | 6°15 | 28°38 | 27° 9 | 28°40 | 0°18 | 1° 2 | 6°17 | 8°31 | S 6 | |
| M 7 | 18 59 31 | 15° 7'31 | 29° 3 | 2°32 | 13°55 | 2°52 | 17°R27 | 6°16 | 28°40 | 27°11 | 28°40 | 0° 8 | 0°58 | 6°24 | 8°32 | M 7 | |
| T 8 | 19 3 28 | 16° 4'44 | 13♁8 | 4°33 | 15° 7 | 3°31 | 17°27 | 6°17 | 28°42 | 27°13 | 28°39 | 29♎59 | 0°55 | 6°30 | 8°32 | T 8 | |
| W 9 | 19 7 24 | 17° 1'58 | 27°20 | 6°36 | 16°20 | 4° 9 | 17°27 | 6°18 | 28°43 | 27°15 | 28°39 | 29°53 | 0°52 | 6°37 | 8°32 | W 9 | |
| T 10 | 19 11 21 | 17°59'11 | 11♁36 | 8°40 | 17°32 | 4°48 | 17°26 | 6°19 | 28°45 | 27°18 | 28°39 | 29°50 | 0°49 | 6°44 | 8°32 | T 10 | |
| F 11 | 19 15 17 | 18°56'24 | 25°50 | 10°46 | 18°44 | 5°26 | 17°25 | 6°20 | 28°47 | 27°20 | 28°39 | 29°D49 | 0°46 | 6°50 | 8°32 | F 11 | |
| S 12 | 19 19 14 | 19°53'37 | 10♃2 | 12°54 | 19°56 | 6° 5 | 17°25 | 6°20 | 28°49 | 27°22 | 28°38 | 29°49 | 0°43 | 6°57 | 8°R32 | S 12 | |
| S 13 | 19 23 11 | 20°50'51 | 24°10 | 15° 2 | 21° 8 | 6°43 | 17°23 | 6°21 | 28°51 | 27°24 | 28°38 | 29°R49 | 0°39 | 7° 4 | 8°32 | S 13 | |
| M14 | 19 27 7 | 21°48'05 | 8♁12 | 17°12 | 22°20 | 7°22 | 17°22 | 6°21 | 28°53 | 27°26 | 28°38 | 29°48 | 0°36 | 7°10 | 8°32 | M14 | |
| T 15 | 19 31 4 | 22°45'19 | 22° 8 | 19°22 | 23°32 | 8° 0 | 17°21 | 6°22 | 28°55 | 27°28 | 28°37 | 29°45 | 0°33 | 7°17 | 8°32 | T 15 | |
| W16 | 19 35 0 | 23°42'34 | 5♁57 | 21°32 | 24°44 | 8°39 | 17°19 | 6°22 | 28°57 | 27°30 | 28°37 | 29°39 | 0°30 | 7°24 | 8°32 | W16 | |
| T 17 | 19 38 57 | 24°39'49 | 19°37 | 23°42 | 25°55 | 9°17 | 17°17 | 6°22 | 28°59 | 27°32 | 28°37 | 29°32 | 0°27 | 7°30 | 8°31 | T 17 | |
| F 18 | 19 42 53 | 25°37'04 | 3♄5 | 25°52 | 27° 7 | 9°55 | 17°15 | 6°R22 | 29° 1 | 27°34 | 28°36 | 29°22 | 0°24 | 7°37 | 8°31 | F 18 | |
| S 19 | 19 46 50 | 26°34'19 | 16°20 | 28° 2 | 28°19 | 10°34 | 17°13 | 6°22 | 29° 3 | 27°36 | 28°36 | 29°11 | 0°20 | 7°44 | 8°31 | S 19 | |
| S 20 | 19 50 46 | 27°31'35 | 29°21 | 0♁10 | 29°31 | 11°12 | 17°10 | 6°22 | 29° 5 | 27°38 | 28°35 | 29° 1 | 0°17 | 7°50 | 8°30 | S 20 | |
| M21 | 19 54 43 | 28°28'51 | 12♁5 | 2°18 | 0♎42 | 11°51 | 17° 7 | 6°21 | 29° 8 | 27°40 | 28°35 | 28°52 | 0°14 | 7°57 | 8°30 | M21 | |
| T 22 | 19 58 40 | 29°26'06 | 24°34 | 4°24 | 1°54 | 12°29 | 17° 5 | 6°21 | 29°10 | 27°42 | 28°34 | 28°45 | 0°11 | 8° 4 | 8°29 | T 22 | |
| W23 | 20 2 36 | 0♁23'22 | 6♎48 | 6°29 | 3° 6 | 13° 7 | 17° 2 | 6°21 | 29°12 | 27°44 | 28°34 | 28°40 | 0° 8 | 8°10 | 8°29 | W23 | |
| T 24 | 20 6 33 | 1°20'38 | 18°49 | 8°33 | 4°17 | 13°46 | 16°58 | 6°20 | 29°15 | 27°46 | 28°33 | 28°38 | 0° 4 | 8°17 | 8°28 | T 24 | |
| F 25 | 20 10 29 | 2°17'54 | 0♄42 | 10°35 | 5°29 | 14°24 | 16°55 | 6°19 | 29°17 | 27°48 | 28°33 | 28°D37 | 0° 1 | 8°23 | 8°27 | F 25 | |
| S 26 | 20 14 26 | 3°15'10 | 12°31 | 12°36 | 6°40 | 15° 2 | 16°51 | 6°19 | 29°20 | 27°50 | 28°32 | 28°38 | 29♎58 | 8°30 | 8°27 | S 26 | |
| S 27 | 20 18 22 | 4°12'26 | 24°19 | 14°35 | 7°51 | 15°41 | 16°48 | 6°18 | 29°22 | 27°52 | 28°31 | 28°39 | 29°55 | 8°37 | 8°26 | S 27 | |
| M28 | 20 22 19 | 5° 9'43 | 6♎13 | 16°32 | 9° 3 | 16°19 | 16°44 | 6°17 | 29°25 | 27°54 | 28°31 | 28°R39 | 29°52 | 8°43 | 8°25 | M28 | |
| T 29 | 20 26 15 | 6° 6'59 | 18°18 | 18°27 | 10°14 | 16°57 | 16°40 | 6°16 | 29°27 | 27°56 | 28°30 | 28°38 | 29°49 | 8°50 | 8°24 | T 29 | |
| W30 | 20 30 12 | 7° 4'16 | 0♁39 | 20°21 | 11°25 | 17°35 | 16°35 | 6°15 | 29°30 | 27°57 | 28°29 | 28°36 | 29°45 | 8°57 | 8°23 | W30 | |
| T 31 | 20 34 9 | 8♁1'33 | 13♁19 | 22♁13 | 12♎36 | 18♁14 | 16♁31 | 6♃13 | 29♎32 | 27♁59 | 28♁29 | 28♎31 | 29♎42 | 9♄3 | 8♃22 | T 31 | |

Delta T = 17m25s

AUGUST 2555

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|----------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|-------|-------|------|-----|
| F 1 | 20 38 5 | 8♁58'51 | 26♁23 | 24♁3 | 13♎48 | 18♁52 | 16°R26 | 6°R12 | 29♎35 | 28♁1 | 28°R28 | 28°R25 | 29♎39 | 9♄10 | 8°R21 | F 1 | |
| S 2 | 20 42 2 | 9°56'08 | 9♄50 | 25°52 | 14°59 | 19°30 | 16♁21 | 6°♃10 | 29°38 | 28° 3 | 28♂27 | 28♎17 | 29°36 | 9°17 | 8°♃20 | S 2 | |
| S 3 | 20 45 58 | 10°53'26 | 23°42 | 27°38 | 16°10 | 20° 9 | 16°17 | 6° 9 | 29°41 | 28° 5 | 28°27 | 28°10 | 29°33 | 9°23 | 8°19 | S 3 | |
| M 4 | 20 49 55 | 11°50'45 | 11°50'45 | 29°23 | 17°21 | 20°47 | 16°11 | 6° 7 | 29°43 | 28° 6 | 28°26 | 28° 3 | 29°30 | 9°30 | 8°18 | M 4 | |
| T 5 | 20 53 51 | 12°48'04 | 22°22 | 1♎6 | 18°31 | 21°25 | 16° 6 | 6° 6 | 29°46 | 28° 8 | 28°25 | 27°57 | 29°26 | 9°37 | 8°17 | T 5 | |
| W 6 | 20 57 48 | 13°45'24 | 6♁58 | 2°48 | 19°42 | 22° 3 | 16° 1 | 6° 4 | 29°49 | 28°10 | 28°24 | 27°53 | 29°23 | 9°43 | 8°15 | W 6 | |
| T 7 | 21 1 44 | 14°42'45 | 21°38 | 4°27 | 20°53 | 22°41 | 15°55 | 6° 2 | 29°52 | 28°11 | 28°23 | 27°D52 | 29°20 | 9°50 | 8°14 | T 7 | |
| F 8 | 21 5 41 | 15°40'06 | 6♃14 | 6° 5 | 22° 4 | 23°20 | 15°50 | 6° 0 | 29°55 | 28°13 | 28°23 | 27°52 | 29°17 | 9°57 | 8°13 | F 8 | |
| S 9 | 21 9 38 | 16°37'29 | 20°42 | 7°41 | 23°14 | 23°58 | 15°44 | 5°58 | 29°58 | 28°15 | 28°22 | 27°53 | 29°14 | 10° 3 | 8°11 | S 9 | |
| S 10 | 21 13 34 | 17°34'53 | 4♁59 | 9°16 | 24°25 | 24°36 | 15°38 | 5°55 | 0♄1 | 28°16 | 28°21 | 27°54 | 29°10 | 10°10 | 8°10 | S 10 | |
| M11 | 21 17 31 | 18°32'18 | 19° 2 | 10°48 | 25°35 | 25°14 | 15°32 | 5°53 | 0° 4 | 28°18 | 28°20 | 27°R55 | 29° 7 | 10°16 | 8° 8 | M11 | |
| T 12 | 21 21 27 | 19°29'44 | 2♁51 | 12°19 | 26°46 | 25°53 | 15°25 | 5°51 | 0° 7 | 28°19 | 28°19 | 27°54 | 29° 4 | 10°23 | 8° 7 | T 12 | |
| W13 | 21 25 24 | 20°27'11 | 16°25 | 13°48 | 27°56 | 26°31 | 15°19 | 5°48 | 0°10 | 28°21 | 28°18 | 27°51 | 29° 1 | 10°30 | 8° 5 | W13 | |
| T 14 | 21 29 20 | 21°24'39 | 29°46 | 15°16 | 29° 7 | 27° 9 | 15°13 | 5°46 | 0°13 | 28°23 | 28°17 | 27°47 | 28°58 | 10°36 | 8° 4 | T 14 | |
| F 15 | 21 33 17 | 22°22'09 | 12♄52 | 16°41 | 0♄17 | 27°47 | 15° 6 | 5°43 | 0°17 | 28°24 | 28°16 | 27°42 | 28°55 | 10°43 | 8° 2 | F 15 | |
| S 16 | 21 37 13 | 23°19'40 | 25°45 | 18° 5 | 1°27 | 28°25 | 14°59 | 5°40 | 0°20 | 28°26 | 28°15 | 27°37 | 28°51 | 10°50 | 8° 0 | S 16 | |
| S 17 | 21 41 10 | 24°17'12 | 8♁25 | 19°27 | 2°37 | 29° 3 | 14°52 | 5°38 | 0°23 | 28°27 | 28°14 | 27°31 | 28°48 | 10°56 | 7°58 | S 17 | |
| M18 | 21 45 7 | 25°14'44 | 20°52 | 20°47 | 3°47 | 29°42 | 14°45 | 5°35 | 0°26 | 28°28 | 28°13 | 27°26 | 28°45 | 11° 3 | 7°57 | M18 | |
| T 19 | 21 49 3 | 26°12'18 | 3♎6 | 22° 5 | 4°57 | 0♎20 | 14°38 | 5°32 | 0°29 | 28°30 | 28°12 | 27°22 | 28°42 | 11°10 | 7°55 | T 19 | |
| W20 | 21 53 0 | 27° 9'53 | 15°11 | 23°22 | 6° 7 | 0°58 | 14°31 | 5°29 | 0°33 | 28°31 | 28°11 | 27°20 | 28°39 | 11°16 | 7°53 | W20 | |
| T 21 | 21 56 56 | 28° 7'29 | 27° 7 | 24°36 | 7°17 | 1°36 | 14°24 | 5°26 | 0°36 | 28°32 | 28°10 | 27°D20 | 28°35 | 11°23 | 7°51 | T 21 | |
| F 22 | 22 0 53 | 29° 5'06 | 8♄56 | 25°48 | 8°27 | 2°14 | 14°17 | 5°23 | 0°39 | 28°34 | 28° 9 | 27°20 | 28°32 | 11°30 | 7°49 | F 22 | |
| S 23 | 22 4 49 | 0♎2'44 | 20°43 | 26°58 | 9°36 | 2°53 | 14° 9 | 5°19 | 0°43 | 28°35 | 28° 8 | 27°21 | 28°29 | 11°36 | 7°47 | S 23 | |
| S 24 | 22 8 46 | 1° 0'23 | 2♎31 | 28° 6 | 10°46 | 3°31 | 14° 2 | 5°16 | 0°46 | 28°36 | 28° 7 | 27°23 | 28°26 | 11°43 | 7°45 | S 24 | |
| M25 | 22 12 42 | 1°58'03 | 14°25 | 29°11 | 11°55 | 4° 9 | 13°54 | 5°13 | 0°50 | 28°38 | 28° 6 | 27°25 | 28°23 | 11°50 | 7°43 | M25 | |
| T 26 | 22 16 39 | 2°55'44 | 26°29 | 0♄14 | 13° 5 | 4°47 | 13°47 | 5° 9 | 0°53 | 28°39 | 28° 5 | 27°26 | 28°20 | 11°56 | 7°41 | T 26 | |
| W27 | 22 20 35 | 3°53'26 | 8♁26 | 1°14 | 14°14 | 5°25 | 13°39 | 5° 5 | 0°56 | 28°40 | 28° 4 | 27°R26 | 28°16 | 12° 3 | 7°39 | W27 | |
| T 28 | 22 24 32 | 4°51'09 | 21°26 | 2°12 | 15°23 | 6° 3 | 13°31 | 5° 2 | 1° 0 | 28°41 | 28° 3 | 27°25 | 28°13 | 12° 9 | 7°36 | T 28 | |
| F 29 | 22 28 29 | 5°48'53 | 4♁28 | 3° 7 | 16°32 | 6°42 | 13°24 | 4°58 | 1° 3 | 28°42 | 28° 2 | 27°23 | 28°10 | 12°16 | 7°34 | F 29 | |
| S 30 | 22 32 25 | 6°46'38 | 17°56 | 3°59 | 17°41 | 7°20 | 13°16 | 4°55 | 1° 7 | 28°43 | 28° 1 | 27°21 | 28° 7 | 12°23 | 7°32 | S 30 | |
| S 31 | 22 36 22 | 7♎44'24 | 1♁50 | 4♄48 | 18♄50 | 7♎58 | 13♁8 | 4°♃51 | 1♄11 | 28♁44 | 28♁0 | 27♎18 | 28♎4 | 12♄29 | 7°♃30 | S 31 | |

Delta T = 17m25s

ASTRODIENST EPHEMERIS for the year 2555
geocentric

SEPTEMBER 2555

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|------|-------|--------|--------|-------|-------|-------|------|-----|
| M 1 | 22 40 18 | 8♎42'11 | 16♏10 | 5♄33 | 19♄59 | 8♎36 | 13°R 0 | 4°R47 | 1♄14 | 28♈45 | 27°R58 | 27°R15 | 28♎ 1 | 12♌36 | 7°R27 | M 1 | |
| T 2 | 22 44 15 | 9°40'00 | 0♐50 | 6°15 | 21° 8 | 9°14 | 12♎52 | 4°Y43 | 1°18 | 28°46 | 27♎57 | 27♎13 | 27°57 | 12°43 | 7°Y25 | T 2 | |
| W 3 | 22 48 11 | 10°37'50 | 15°45 | 6°53 | 22°17 | 9°52 | 12°44 | 4°39 | 1°21 | 28°47 | 27°56 | 27°12 | 27°54 | 12°49 | 7°23 | W 3 | |
| T 4 | 22 52 8 | 11°35'41 | 0°Y46 | 7°27 | 23°25 | 10°31 | 12°36 | 4°35 | 1°25 | 28°48 | 27°55 | 27°D12 | 27°51 | 12°56 | 7°20 | T 4 | |
| F 5 | 22 56 4 | 12°33'34 | 15°45 | 7°57 | 24°34 | 11° 9 | 12°29 | 4°31 | 1°28 | 28°49 | 27°54 | 27°13 | 27°48 | 13° 3 | 7°18 | F 5 | |
| S 6 | 23 0 1 | 13°31'29 | 0♒34 | 8°23 | 25°42 | 11°47 | 12°21 | 4°27 | 1°32 | 28°50 | 27°53 | 27°14 | 27°45 | 13° 9 | 7°16 | S 6 | |
| S 7 | 23 3 58 | 14°29'25 | 15° 7 | 8°44 | 26°50 | 12°25 | 12°13 | 4°23 | 1°36 | 28°51 | 27°51 | 27°15 | 27°41 | 13°16 | 7°13 | S 7 | |
| M 8 | 23 7 54 | 15°27'24 | 29°21 | 8°59 | 27°58 | 13° 3 | 12° 5 | 4°18 | 1°39 | 28°52 | 27°50 | 27°15 | 27°38 | 13°23 | 7°11 | M 8 | |
| T 9 | 23 11 51 | 16°25'24 | 13♈13 | 9°10 | 29° 6 | 13°41 | 11°57 | 4°14 | 1°43 | 28°52 | 27°49 | 27°R16 | 27°35 | 13°29 | 7° 8 | T 9 | |
| W10 | 23 15 47 | 17°23'26 | 26°44 | 9°R15 | 0♎14 | 14°20 | 11°49 | 4°10 | 1°47 | 28°53 | 27°48 | 27°16 | 27°32 | 13°36 | 7° 6 | W10 | |
| T 11 | 23 19 44 | 18°21'30 | 9♉54 | 9°14 | 1°22 | 14°58 | 11°41 | 4° 6 | 1°51 | 28°54 | 27°47 | 27°15 | 27°29 | 13°43 | 7° 3 | T 11 | |
| F 12 | 23 23 40 | 19°19'36 | 22°46 | 9° 7 | 2°30 | 15°36 | 11°34 | 4° 1 | 1°54 | 28°55 | 27°45 | 27°14 | 27°26 | 13°49 | 7° 0 | F 12 | |
| S 13 | 23 27 37 | 20°17'44 | 5♊22 | 8°55 | 3°37 | 16°14 | 11°26 | 3°57 | 1°58 | 28°55 | 27°44 | 27°13 | 27°22 | 13°56 | 6°58 | S 13 | |
| S 14 | 23 31 33 | 21°15'53 | 17°45 | 8°35 | 4°44 | 16°52 | 11°18 | 3°52 | 2° 2 | 28°56 | 27°43 | 27°13 | 27°19 | 14° 2 | 6°55 | S 14 | |
| M15 | 23 35 30 | 22°14'05 | 29°56 | 8°10 | 5°52 | 17°31 | 11°10 | 3°48 | 2° 5 | 28°56 | 27°42 | 27°12 | 27°16 | 14° 9 | 6°53 | M15 | |
| T 16 | 23 39 27 | 23°12'18 | 11♎58 | 7°38 | 6°59 | 18° 9 | 11° 3 | 3°44 | 2° 9 | 28°57 | 27°41 | 27°12 | 27°13 | 14°16 | 6°50 | T 16 | |
| W17 | 23 43 23 | 24°10'33 | 23°54 | 7° 0 | 8° 6 | 18°47 | 10°55 | 3°39 | 2°13 | 28°57 | 27°39 | 27°D11 | 27°10 | 14°22 | 6°47 | W17 | |
| T 18 | 23 47 20 | 25° 8'49 | 5♋44 | 6°16 | 9°13 | 19°25 | 10°48 | 3°34 | 2°17 | 28°58 | 27°38 | 27°11 | 27° 7 | 14°29 | 6°45 | T 18 | |
| F 19 | 23 51 16 | 26° 7'07 | 17°31 | 5°26 | 10°20 | 20° 3 | 10°40 | 3°30 | 2°20 | 28°58 | 27°37 | 27°11 | 27° 3 | 14°36 | 6°42 | F 19 | |
| S 20 | 23 55 13 | 27° 5'27 | 29°19 | 4°33 | 11°26 | 20°42 | 10°33 | 3°25 | 2°24 | 28°59 | 27°36 | 27°R12 | 27° 0 | 14°42 | 6°39 | S 20 | |
| S 21 | 23 59 9 | 28° 3'49 | 11♌ 8 | 3°35 | 12°33 | 21°20 | 10°26 | 3°21 | 2°28 | 28°59 | 27°34 | 27°11 | 26°57 | 14°49 | 6°37 | S 21 | |
| M22 | 0 3 6 | 29° 2'12 | 23° 4 | 2°35 | 13°39 | 21°58 | 10°19 | 3°16 | 2°32 | 29° 0 | 27°33 | 27°11 | 26°54 | 14°56 | 6°34 | M22 | |
| T 23 | 0 7 2 | 0♌ 0'37 | 5♌ 9 | 1°33 | 14°45 | 22°36 | 10°12 | 3°12 | 2°36 | 29° 0 | 27°32 | 27°11 | 26°51 | 15° 2 | 6°31 | T 23 | |
| W24 | 0 10 59 | 0°59'04 | 17° 9 | 0°31 | 15°51 | 23°15 | 10° 5 | 3° 7 | 2°39 | 29° 0 | 27°31 | 27°11 | 26°47 | 15° 9 | 6°28 | W24 | |
| T 25 | 0 14 55 | 1°57'32 | 0♑ 2 | 29♎31 | 16°57 | 23°53 | 9°58 | 3° 2 | 2°43 | 29° 0 | 27°29 | 27°D11 | 26°44 | 15°16 | 6°26 | T 25 | |
| F 26 | 0 18 52 | 2°56'01 | 12°58 | 28°33 | 18° 2 | 24°31 | 9°51 | 2°58 | 2°47 | 29° 1 | 27°28 | 27°11 | 26°41 | 15°22 | 6°23 | F 26 | |
| S 27 | 0 22 49 | 3°54'32 | 26°19 | 27°40 | 19° 8 | 25° 9 | 9°45 | 2°53 | 2°51 | 29° 1 | 27°27 | 27°11 | 26°38 | 15°29 | 6°20 | S 27 | |
| S 28 | 0 26 45 | 4°53'05 | 10♋ 6 | 26°52 | 20°13 | 25°48 | 9°38 | 2°49 | 2°55 | 29° 1 | 27°26 | 27°12 | 26°35 | 15°36 | 6°18 | S 28 | |
| M29 | 0 30 42 | 5°51'40 | 24°20 | 26°11 | 21°18 | 26°26 | 9°32 | 2°44 | 2°58 | 29° 1 | 27°25 | 27°12 | 26°32 | 15°42 | 6°15 | M29 | |
| T 30 | 0 34 38 | 6♌50'16 | 8♐58 | 25♎39 | 22♌23 | 27♎ 4 | 9♐26 | 2°Y39 | 3♌ 2 | 29♈ 1 | 27♎23 | 27♎13 | 26♎28 | 15♄49 | 6°Y12 | T 30 | |

Delta T = 17m25s

OCTOBER 2555

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|------|--------|--------|--------|-------|-------|-------|------|-----|
| W 1 | 0 38 35 | 7♄48'53 | 23♎56 | 25°R15 | 23♌28 | 27♎42 | 9°R20 | 2°R35 | 3♌ 6 | 29♈ 1 | 27°R22 | 27°R13 | 26♎25 | 15♄56 | 6°R 9 | W 1 | |
| T 2 | 0 42 31 | 8°47'33 | 9°Y 7 | 25♎ 0 | 24°32 | 28°21 | 9♐14 | 2°Y30 | 3°10 | 29°R 1 | 27♎21 | 27♎13 | 26°22 | 16° 2 | 6°Y 7 | T 2 | |
| F 3 | 0 46 28 | 9°46'14 | 24°20 | 24°D55 | 25°36 | 28°59 | 9° 8 | 2°26 | 3°13 | 29°R 1 | 27°20 | 27°13 | 26°19 | 16° 9 | 6° 4 | F 3 | |
| S 4 | 0 50 24 | 10°44'58 | 9♒27 | 25° 0 | 26°40 | 29°37 | 9° 2 | 2°21 | 3°17 | 29° 1 | 27°19 | 27°11 | 26°16 | 16°16 | 6° 1 | S 4 | |
| S 5 | 0 54 21 | 11°43'44 | 24°18 | 25°16 | 27°44 | 0♌15 | 8°57 | 2°16 | 3°21 | 29° 1 | 27°17 | 27° 9 | 26°12 | 16°22 | 5°58 | S 5 | |
| M 6 | 0 58 18 | 12°42'32 | 8♈47 | 25°40 | 28°48 | 0°54 | 8°52 | 2°12 | 3°25 | 29° 1 | 27°16 | 27° 8 | 26° 9 | 16°29 | 5°56 | M 6 | |
| T 7 | 1 2 14 | 13°41'22 | 22°49 | 26°15 | 29°51 | 1°32 | 8°46 | 2° 8 | 3°28 | 29° 1 | 27°15 | 27° 6 | 26° 6 | 16°35 | 5°53 | T 7 | |
| W 8 | 1 6 11 | 14°40'14 | 6♉25 | 26°58 | 0♌54 | 2°10 | 8°41 | 2° 3 | 3°32 | 29° 1 | 27°14 | 27° 5 | 26° 3 | 16°42 | 5°50 | W 8 | |
| T 9 | 1 10 7 | 15°39'09 | 19°35 | 27°50 | 1°57 | 2°49 | 8°37 | 1°59 | 3°36 | 29° 1 | 27°13 | 27°D 5 | 26° 0 | 16°49 | 5°48 | T 9 | |
| F 10 | 1 14 4 | 16°38'06 | 2♊22 | 28°49 | 2°59 | 3°27 | 8°32 | 1°54 | 3°40 | 29° 0 | 27°12 | 27° 6 | 25°57 | 16°55 | 5°45 | F 10 | |
| S 11 | 1 18 0 | 17°37'05 | 14°49 | 29°55 | 4° 2 | 4° 6 | 8°27 | 1°50 | 3°43 | 29° 0 | 27°10 | 27° 7 | 25°53 | 17° 2 | 5°42 | S 11 | |
| S 12 | 1 21 57 | 18°36'07 | 27° 2 | 1♌ 8 | 5° 4 | 4°44 | 8°23 | 1°46 | 3°47 | 29° 0 | 27° 9 | 27° 9 | 25°50 | 17° 9 | 5°40 | S 12 | |
| M13 | 1 25 53 | 19°35'10 | 9♎ 3 | 2°26 | 6° 6 | 5°22 | 8°19 | 1°41 | 3°51 | 28°59 | 27° 8 | 27°10 | 25°47 | 17°15 | 5°37 | M13 | |
| T 14 | 1 29 50 | 20°34'16 | 20°56 | 3°49 | 7° 7 | 6° 1 | 8°15 | 1°37 | 3°54 | 28°59 | 27° 7 | 27°11 | 25°44 | 17°22 | 5°34 | T 14 | |
| W15 | 1 33 47 | 21°33'24 | 2♌45 | 5°17 | 8° 8 | 6°39 | 8°11 | 1°33 | 3°58 | 28°59 | 27° 6 | 27°R11 | 25°41 | 17°29 | 5°32 | W15 | |
| T 16 | 1 37 43 | 22°32'34 | 14°32 | 6°48 | 9° 9 | 7°17 | 8° 7 | 1°29 | 4° 2 | 28°58 | 27° 5 | 27°10 | 25°38 | 17°35 | 5°29 | T 16 | |
| F 17 | 1 41 40 | 23°31'46 | 26°20 | 8°22 | 10° 9 | 7°56 | 8° 4 | 1°25 | 4° 5 | 28°58 | 27° 4 | 27° 7 | 25°34 | 17°42 | 5°26 | F 17 | |
| S 18 | 1 45 36 | 24°31'00 | 8♌11 | 9°58 | 11°10 | 8°34 | 8° 1 | 1°20 | 4° 9 | 28°57 | 27° 3 | 27° 4 | 25°31 | 17°49 | 5°24 | S 18 | |
| S 19 | 1 49 33 | 25°30'16 | 20° 7 | 11°37 | 12° 9 | 9°13 | 7°58 | 1°16 | 4°13 | 28°57 | 27° 2 | 26°59 | 25°28 | 17°55 | 5°21 | S 19 | |
| M20 | 1 53 29 | 26°29'33 | 2♌ 9 | 13°17 | 13° 9 | 9°51 | 7°55 | 1°13 | 4°16 | 28°56 | 27° 1 | 26°53 | 25°25 | 18° 2 | 5°19 | M20 | |
| T 21 | 1 57 26 | 27°28'53 | 14°20 | 14°59 | 14° 8 | 10°30 | 7°52 | 1° 9 | 4°20 | 28°55 | 27° 0 | 26°48 | 25°22 | 18° 9 | 5°16 | T 21 | |
| W22 | 2 1 22 | 28°28'15 | 26°42 | 16°41 | 15° 7 | 11° 8 | 7°50 | 1° 5 | 4°23 | 28°55 | 26°59 | 26°44 | 25°18 | 18°15 | 5°14 | W22 | |
| T 23 | 2 5 19 | 29°27'38 | 9♑19 | 18°24 | 16° 5 | 11°47 | 7°47 | 1° 1 | 4°27 | 28°54 | 26°58 | 26°41 | 25°15 | 18°22 | 5°11 | T 23 | |
| F 24 | 2 9 16 | 0♎27'04 | 22°12 | 20° 7 | 17° 3 | 12°25 | 7°45 | 0°57 | 4°30 | 28°53 | 26°57 | 26°39 | 25°12 | 18°29 | 5° 9 | F 24 | |
| S 25 | 2 13 12 | 1°26'30 | 5♏25 | 21°51 | 18° 0 | 13° 4 | 7°43 | 0°54 | 4°34 | 28°53 | 26°56 | 26°D39 | 25° 9 | 18°35 | 5° 7 | S 25 | |
| S 26 | 2 17 9 | 2°25'59 | 19° 1 | 23°35 | 18°57 | 13°42 | 7°42 | 0°50 | 4°37 | 28°52 | 26°55 | 26°40 | 25° 6 | 18°42 | 5° 4 | S 26 | |
| M27 | 2 21 5 | 3°25'29 | 3♎ 1 | 25°18 | 19°53 | 14°21 | 7°40 | 0°47 | 4°41 | 28°51 | 26°54 | 26°41 | 25° 3 | 18°49 | 5° 2 | M27 | |
| T 28 | 2 25 2 | 4°25'01 | 17°25 | 27° 2 | 20°49 | 14°59 | 7°39 | 0°43 | 4°44 | 28°50 | 26°53 | 26°42 | 24°59 | 18°55 | 5° 0 | T 28 | |
| W29 | 2 28 58 | 5°24'35 | 2°Y11 | 28°45 | 21°45 | 15°38 | 7°38 | 0°40 | 4°48 | 28°50 | 26°52 | 26°R42 | 24°56 | 19° 2 | 4°57 | W29 | |
| T 30 | 2 32 55 | 6°24'10 | 17°14 | 0♎28 | 22°40 | 16°16 | 7°37 | 0°36 | 4°51 | 28°49 | 26°51 | 26°41 | 24°53 | 19° 9 | 4°55 | T 30 | |
| F 31 | 2 36 51 | 7♌23'47 | 2♒26 | 2♌10 | 23♌34 | 16♄55 | 7♐36 | 0°Y33 | 4♌54 | 28♈48 | 26♎50 | 26♎37 | 24♎50 | 19♄15 | 4°Y53 | F 31 | |

Delta T = 17m26s

ASTRODIENST EPHEMERIS for the year 2555
geocentric

NOVEMBER 2555

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|-------|------|--------|--------|--------|-------|-------|-------|------|---|---|---|---|-----|
| S 1 | 2 40 48 | 8♁23'26 | 17♄37 | 3♁52 | 24♁28 | 17♁33 | 7°R36 | 0°R30 | 4♁58 | 28°R47 | 26°R49 | 26°R32 | 24♁47 | 19♁22 | 4°R51 | S 1 | | | | | |
| S 2 | 2 44 44 | 9°23'08 | 2♁36 | 5°34 | 25°21 | 18°12 | 7♁35 | 0°V27 | 5° 1 | 28♁46 | 26♁48 | 26♁26 | 24°43 | 19°29 | 4°V49 | S 2 | | | | | |
| M 3 | 2 48 41 | 10°22'51 | 17°16 | 7°15 | 26°13 | 18°50 | 7°D35 | 0°24 | 5° 4 | 28°45 | 26°47 | 26°19 | 24°40 | 19°35 | 4°47 | M 3 | | | | | |
| T 4 | 2 52 38 | 11°22'37 | 1♁30 | 8°56 | 27° 5 | 19°29 | 7°35 | 0°21 | 5° 8 | 28°44 | 26°47 | 26°13 | 24°37 | 19°42 | 4°44 | T 4 | | | | | |
| W 5 | 2 56 34 | 12°22'25 | 15°14 | 10°36 | 27°56 | 20° 8 | 7°36 | 0°18 | 5°11 | 28°43 | 26°46 | 26° 8 | 24°34 | 19°48 | 4°42 | W 5 | | | | | |
| T 6 | 3 0 31 | 13°22'15 | 28°30 | 12°15 | 28°47 | 20°46 | 7°36 | 0°15 | 5°14 | 28°42 | 26°45 | 26° 5 | 24°31 | 19°55 | 4°40 | T 6 | | | | | |
| F 7 | 3 4 27 | 14°22'07 | 11♁19 | 13°54 | 29°36 | 21°25 | 7°37 | 0°13 | 5°17 | 28°41 | 26°44 | 26°D 3 | 24°28 | 20° 2 | 4°38 | F 7 | | | | | |
| S 8 | 3 8 24 | 15°22'01 | 23°46 | 15°33 | 0♁25 | 22° 4 | 7°38 | 0°10 | 5°20 | 28°40 | 26°44 | 26° 4 | 24°24 | 20° 8 | 4°37 | S 8 | | | | | |
| S 9 | 3 12 20 | 16°21'57 | 5♁55 | 17°11 | 1°14 | 22°42 | 7°39 | 0° 8 | 5°23 | 28°38 | 26°43 | 26° 5 | 24°21 | 20°15 | 4°35 | S 9 | | | | | |
| M10 | 3 16 17 | 17°21'56 | 17°52 | 18°48 | 2° 1 | 23°21 | 7°40 | 0° 5 | 5°26 | 28°37 | 26°42 | 26° 6 | 24°18 | 20°22 | 4°33 | M10 | | | | | |
| T 11 | 3 20 13 | 18°21'56 | 29°41 | 20°26 | 2°48 | 24° 0 | 7°42 | 0° 3 | 5°30 | 28°36 | 26°41 | 26°R 6 | 24°15 | 20°28 | 4°31 | T 11 | | | | | |
| W12 | 3 24 10 | 19°21'59 | 11♁28 | 22° 2 | 3°33 | 24°38 | 7°44 | 0° 1 | 5°33 | 28°35 | 26°41 | 26° 5 | 24°12 | 20°35 | 4°29 | W12 | | | | | |
| T 13 | 3 28 7 | 20°22'03 | 23°15 | 23°38 | 4°18 | 25°17 | 7°46 | 29♁59 | 5°36 | 28°34 | 26°40 | 26° 1 | 24° 9 | 20°42 | 4°28 | T 13 | | | | | |
| F 14 | 3 32 3 | 21°22'10 | 5♁ 6 | 25°14 | 5° 2 | 25°56 | 7°48 | 29°57 | 5°38 | 28°32 | 26°39 | 25°55 | 24° 5 | 20°48 | 4°26 | F 14 | | | | | |
| S 15 | 3 36 0 | 22°22'18 | 17° 4 | 26°50 | 5°44 | 26°35 | 7°50 | 29°55 | 5°41 | 28°31 | 26°39 | 25°46 | 24° 2 | 20°55 | 4°24 | S 15 | | | | | |
| S 16 | 3 39 56 | 23°22'29 | 29°10 | 28°25 | 6°26 | 27°13 | 7°53 | 29°53 | 5°44 | 28°30 | 26°38 | 25°35 | 23°59 | 21° 2 | 4°23 | S 16 | | | | | |
| M17 | 3 43 53 | 24°22'41 | 11♁24 | 29°59 | 7° 7 | 27°52 | 7°55 | 29°51 | 5°47 | 28°28 | 26°38 | 25°24 | 23°56 | 21° 8 | 4°21 | M17 | | | | | |
| T 18 | 3 47 49 | 25°22'55 | 23°48 | 1♁34 | 7°46 | 28°31 | 7°58 | 29°50 | 5°50 | 28°27 | 26°37 | 25°12 | 23°53 | 21°15 | 4°20 | T 18 | | | | | |
| W19 | 3 51 46 | 26°23'10 | 6♁33 | 3° 7 | 8°25 | 29°10 | 8° 2 | 29°48 | 5°53 | 28°26 | 26°37 | 25° 2 | 23°49 | 21°22 | 4°18 | W19 | | | | | |
| T 20 | 3 55 42 | 27°23'27 | 19° 9 | 4°41 | 9° 2 | 29°49 | 8° 5 | 29°47 | 5°55 | 28°24 | 26°36 | 24°54 | 23°46 | 21°28 | 4°17 | T 20 | | | | | |
| F 21 | 3 59 39 | 28°23'45 | 2♁ 8 | 6°14 | 9°38 | 0♁27 | 8° 8 | 29°45 | 5°58 | 28°23 | 26°36 | 24°48 | 23°43 | 21°35 | 4°16 | F 21 | | | | | |
| S 22 | 4 3 36 | 29°24'05 | 15°22 | 7°47 | 10°12 | 1° 6 | 8°12 | 29°44 | 6° 1 | 28°21 | 26°35 | 24°45 | 23°40 | 21°42 | 4°14 | S 22 | | | | | |
| S 23 | 4 7 32 | 0♁24'26 | 28°52 | 9°20 | 10°45 | 1°45 | 8°16 | 29°43 | 6° 3 | 28°20 | 26°35 | 24°D44 | 23°37 | 21°48 | 4°13 | S 23 | | | | | |
| M24 | 4 11 29 | 1°24'48 | 12♁40 | 10°52 | 11°17 | 2°24 | 8°20 | 29°42 | 6° 6 | 28°19 | 26°34 | 24°45 | 23°34 | 21°55 | 4°12 | M24 | | | | | |
| T 25 | 4 15 25 | 2°25'12 | 26°47 | 12°24 | 11°47 | 3° 3 | 8°24 | 29°41 | 6° 8 | 28°17 | 26°34 | 24°R45 | 23°30 | 22° 2 | 4°11 | T 25 | | | | | |
| W26 | 4 19 22 | 3°25'37 | 11°V14 | 13°56 | 12°15 | 3°42 | 8°29 | 29°40 | 6°11 | 28°16 | 26°34 | 24°44 | 23°27 | 22° 8 | 4°10 | W26 | | | | | |
| T 27 | 4 23 18 | 4°26'03 | 25°56 | 15°28 | 12°42 | 4°20 | 8°33 | 29°40 | 6°13 | 28°14 | 26°33 | 24°41 | 23°24 | 22°15 | 4° 9 | T 27 | | | | | |
| F 28 | 4 27 15 | 5°26'31 | 10♁49 | 16°59 | 13° 7 | 4°59 | 8°38 | 29°39 | 6°16 | 28°13 | 26°33 | 24°34 | 23°21 | 22°22 | 4° 8 | F 28 | | | | | |
| S 29 | 4 31 11 | 6°27'00 | 25°46 | 18°30 | 13°30 | 5°38 | 8°43 | 29°38 | 6°18 | 28°11 | 26°33 | 24°26 | 23°18 | 22°28 | 4° 7 | S 29 | | | | | |
| S 30 | 4 35 8 | 7♁27'31 | 10♁37 | 20♁ 1 | 13♁52 | 6♁17 | 8♁49 | 29♁38 | 6♁20 | 28♁ 9 | 26♁32 | 24♁15 | 23♁15 | 22♁35 | 4°V 6 | S 30 | | | | | |

Delta T = 17m26s

DECEMBER 2555

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|--------|--------|-------|-------|--------|------|--------|--------|--------|-------|-------|-------|------|---|---|---|---|-----|
| M 1 | 4 39 5 | 8♁28'03 | 25♁14 | 21♁32 | 14♁11 | 6♁56 | 8♁54 | 29°R38 | 6♁22 | 28°R 8 | 26°R32 | 24°R 3 | 23♁11 | 22♁42 | 4°R 5 | M 1 | | | | | |
| T 2 | 4 43 1 | 9°28'36 | 9♁30 | 23° 2 | 14°29 | 7°35 | 8°59 | 29♁38 | 6°25 | 28♁ 6 | 26♁32 | 23♁52 | 23° 8 | 22°48 | 4°V 4 | T 2 | | | | | |
| W 3 | 4 46 58 | 10°29'12 | 23°18 | 24°32 | 14°45 | 8°14 | 9° 5 | 29°D38 | 6°27 | 28° 5 | 26°32 | 23°43 | 23° 5 | 22°55 | 4° 4 | W 3 | | | | | |
| T 4 | 4 50 54 | 11°29'48 | 6♁39 | 26° 1 | 14°58 | 8°53 | 9°11 | 29°38 | 6°29 | 28° 3 | 26°32 | 23°36 | 23° 2 | 23° 2 | 4° 3 | T 4 | | | | | |
| F 5 | 4 54 51 | 12°30'27 | 19°33 | 27°31 | 15°10 | 9°32 | 9°17 | 29°38 | 6°31 | 28° 1 | 26°31 | 23°32 | 22°59 | 23° 8 | 4° 2 | F 5 | | | | | |
| S 6 | 4 58 47 | 13°31'07 | 2♁ 3 | 28°59 | 15°19 | 10°11 | 9°23 | 29°38 | 6°33 | 28° 0 | 26°31 | 23°30 | 22°55 | 23°15 | 4° 2 | S 6 | | | | | |
| S 7 | 5 2 44 | 14°31'48 | 14°14 | 0♁28 | 15°26 | 10°50 | 9°30 | 29°38 | 6°35 | 27°58 | 26°31 | 23°D29 | 22°52 | 23°22 | 4° 1 | S 7 | | | | | |
| M 8 | 5 6 40 | 15°32'31 | 26°11 | 1°56 | 15°30 | 11°29 | 9°36 | 29°39 | 6°37 | 27°57 | 26°31 | 23°R29 | 22°49 | 23°28 | 4° 1 | M 8 | | | | | |
| T 9 | 5 10 37 | 16°33'16 | 8♁ 1 | 3°23 | 15°R33 | 12° 8 | 9°43 | 29°39 | 6°39 | 27°55 | 26°31 | 23°29 | 22°46 | 23°35 | 4° 0 | T 9 | | | | | |
| W10 | 5 14 34 | 17°34'02 | 19°48 | 4°50 | 15°32 | 12°47 | 9°50 | 29°40 | 6°41 | 27°53 | 26°31 | 23°26 | 22°43 | 23°42 | 4° 0 | W10 | | | | | |
| T 11 | 5 18 30 | 18°34'49 | 1♁37 | 6°16 | 15°30 | 13°26 | 9°57 | 29°41 | 6°42 | 27°52 | 26°D31 | 23°21 | 22°40 | 23°48 | 4° 0 | T 11 | | | | | |
| F 12 | 5 22 27 | 19°35'38 | 13°33 | 7°41 | 15°25 | 14° 5 | 10° 4 | 29°42 | 6°44 | 27°50 | 26°31 | 23°13 | 22°36 | 23°55 | 4° 0 | F 12 | | | | | |
| S 13 | 5 26 23 | 20°36'28 | 25°38 | 9° 5 | 15°17 | 14°45 | 10°12 | 29°43 | 6°46 | 27°48 | 26°31 | 23° 2 | 22°33 | 24° 2 | 3°59 | S 13 | | | | | |
| S 14 | 5 30 20 | 21°37'20 | 7♁55 | 10°28 | 15° 8 | 15°24 | 10°19 | 29°44 | 6°47 | 27°47 | 26°31 | 22°49 | 22°30 | 24° 8 | 3°59 | S 14 | | | | | |
| M15 | 5 34 16 | 22°38'12 | 20°24 | 11°49 | 14°55 | 16° 3 | 10°27 | 29°45 | 6°49 | 27°45 | 26°31 | 22°35 | 22°27 | 24°15 | 3°D59 | M15 | | | | | |
| T 16 | 5 38 13 | 23°39'06 | 3♁ 6 | 13° 9 | 14°40 | 16°42 | 10°35 | 29°46 | 6°51 | 27°43 | 26°31 | 22°21 | 22°24 | 24°22 | 3°59 | T 16 | | | | | |
| W17 | 5 42 10 | 24°40'01 | 16° 1 | 14°27 | 14°23 | 17°21 | 10°43 | 29°48 | 6°52 | 27°41 | 26°32 | 22° 8 | 22°21 | 24°28 | 3°59 | W17 | | | | | |
| T 18 | 5 46 6 | 25°40'56 | 29° 6 | 15°43 | 14° 4 | 18° 0 | 10°51 | 29°49 | 6°53 | 27°40 | 26°32 | 21°57 | 22°17 | 24°35 | 3°59 | T 18 | | | | | |
| F 19 | 5 50 3 | 26°41'52 | 12♁23 | 16°57 | 13°42 | 18°40 | 10°59 | 29°51 | 6°55 | 27°38 | 26°32 | 21°49 | 22°14 | 24°42 | 4° 0 | F 19 | | | | | |
| S 20 | 5 53 59 | 27°42'49 | 25°49 | 18° 8 | 13°18 | 19°19 | 11° 8 | 29°52 | 6°56 | 27°36 | 26°32 | 21°45 | 22°11 | 24°48 | 4° 0 | S 20 | | | | | |
| S 21 | 5 57 56 | 28°43'47 | 9♁26 | 19°15 | 12°52 | 19°58 | 11°16 | 29°54 | 6°57 | 27°35 | 26°32 | 21°43 | 22° 8 | 24°55 | 4° 0 | S 21 | | | | | |
| M22 | 6 1 52 | 29°44'45 | 23°13 | 20°19 | 12°24 | 20°37 | 11°25 | 29°56 | 6°58 | 27°33 | 26°33 | 21°42 | 22° 5 | 25° 2 | 4° 1 | M22 | | | | | |
| T 23 | 6 5 49 | 0♁45'44 | 7°V12 | 21°18 | 11°54 | 21°16 | 11°34 | 29°58 | 7° 0 | 27°31 | 26°33 | 21°42 | 22° 1 | 25° 8 | 4° 1 | T 23 | | | | | |
| W24 | 6 9 45 | 1°46'43 | 21°22 | 22°12 | 11°22 | 21°56 | 11°43 | 0°V 0 | 7° 1 | 27°30 | 26°33 | 21°41 | 21°58 | 25°15 | 4° 1 | W24 | | | | | |
| T 25 | 6 13 42 | 2°47'42 | 5♁42 | 23° 0 | 10°49 | 22°35 | 11°52 | 0° 3 | 7° 2 | 27°28 | 26°34 | 21°38 | 21°55 | 25°22 | 4° 2 | T 25 | | | | | |
| F 26 | 6 17 39 | 3°48'42 | 20° 9 | 23°42 | 10°15 | 23°14 | 12° 1 | 0° 5 | 7° 3 | 27°26 | 26°34 | 21°32 | 21°52 | 25°28 | 4° 2 | F 26 | | | | | |
| S 27 | 6 21 35 | 4°49'43 | 4♁40 | 24°17 | 9°40 | 23°53 | 12°11 | 0° 7 | 7° 4 | 27°24 | 26°34 | 21°23 | 21°49 | 25°35 | 4° 3 | S 27 | | | | | |
| S 28 | 6 25 32 | 5°50'44 | 19° 7 | 24°43 | 9° 4 | 24°33 | 12°20 | 0°10 | 7° 5 | 27°23 | 26°35 | 21°12 | 21°46 | 25°42 | 4° 4 | S 28 | | | | | |
| M29 | 6 29 28 | 6°51'45 | 3♁25 | 25° 0 | 8°28 | 25°12 | 12°30 | 0°13 | 7° 5 | 27°21 | 26°35 | 21° 0 | 21°42 | 25°48 | 4° 4 | M29 | | | | | |
| T 30 | 6 33 25 | 7°52'47 | 17°27 | 25°R 6 | 7°51 | 25°51 | 12°40 | 0°15 | 7° 6 | 27°19 | 26°36 | 20°48 | 21°39 | 25°55 | 4° 5 | T 30 | | | | | |
| W31 | 6 37 21 | 8♁53'50 | 1♁ 7 | 25♁ 2 | 7♁14 | 26♁31 | 12♁50 | 0°V18 | 7♁ 7 | 27♁18 | 26♁36 | 20♁38 | 21♁36 | 26♁ 2 | 4°V 6 | W31 | | | | | |

Delta T = 17m26s

ASTRODIENST EPHEMERIS for the year 2556
geocentric

JANUARY 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♄ | ♅ | ♁ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|------|-----|
| T 1 | 6 41 18 | 9♁54'53 | 14♁25 | 24°R47 | 6°R38 | 27♁10 | 13♁ 0 | 0°Y21 | 7♁ 7 | 27°R16 | 26♁37 | 20°R30 | 21♁33 | 26♁ 8 | 4°Y 7 | T 1 | |
| F 2 | 6 45 14 | 10°55'57 | 27°19 | 24♁20 | 6♁ 2 | 27°49 | 13°10 | 0°24 | 7° 8 | 27♁14 | 26°37 | 20♁25 | 21°30 | 26°15 | 4° 8 | F 2 | |
| S 3 | 6 49 11 | 11°57'02 | 9♁51 | 23°41 | 5°27 | 28°29 | 13°20 | 0°27 | 7° 9 | 27°13 | 26°38 | 20°23 | 21°27 | 26°22 | 4° 9 | S 3 | |
| S 4 | 6 53 8 | 12°58'07 | 22° 4 | 22°51 | 4°53 | 29° 8 | 13°31 | 0°30 | 7° 9 | 27°11 | 26°38 | 20°D22 | 21°23 | 26°28 | 4°10 | S 4 | |
| M 5 | 6 57 4 | 13°59'12 | 4♁ 4 | 21°50 | 4°20 | 29°48 | 13°41 | 0°34 | 7° 9 | 27°10 | 26°39 | 20°23 | 21°20 | 26°35 | 4°11 | M 5 | |
| T 6 | 7 1 1 | 15° 0'18 | 15°55 | 20°41 | 3°49 | 0♁27 | 13°52 | 0°37 | 7°10 | 27° 8 | 26°40 | 20°R23 | 21°17 | 26°42 | 4°12 | T 6 | |
| W 7 | 7 4 57 | 16° 1'25 | 27°44 | 19°25 | 3°20 | 1° 6 | 14° 2 | 0°41 | 7°10 | 27° 6 | 26°40 | 20°22 | 21°14 | 26°48 | 4°13 | W 7 | |
| T 8 | 7 8 54 | 17° 2'33 | 9♁35 | 18° 5 | 2°52 | 1°46 | 14°13 | 0°44 | 7°10 | 27° 5 | 26°41 | 20°19 | 21°11 | 26°55 | 4°15 | T 8 | |
| F 9 | 7 12 50 | 18° 3'40 | 21°33 | 16°43 | 2°26 | 2°25 | 14°24 | 0°48 | 7°11 | 27° 3 | 26°42 | 20°14 | 21° 7 | 27° 2 | 4°16 | F 9 | |
| S 10 | 7 16 47 | 19° 4'49 | 3♁43 | 15°22 | 2° 2 | 3° 5 | 14°35 | 0°52 | 7°11 | 27° 2 | 26°42 | 20° 6 | 21° 4 | 27° 8 | 4°17 | S 10 | |
| S 11 | 7 20 43 | 20° 5'57 | 16° 8 | 14° 5 | 1°41 | 3°44 | 14°46 | 0°56 | 7°11 | 27° 0 | 26°43 | 19°57 | 21° 1 | 27°15 | 4°19 | S 11 | |
| M12 | 7 24 40 | 21° 7'06 | 28°50 | 12°53 | 1°21 | 4°24 | 14°58 | 1° 0 | 7°R11 | 26°59 | 26°44 | 19°46 | 20°58 | 27°22 | 4°20 | M12 | |
| T 13 | 7 28 37 | 22° 8'15 | 11♁49 | 11°50 | 1° 4 | 5° 3 | 15° 9 | 1° 4 | 7°11 | 26°57 | 26°45 | 19°35 | 20°55 | 27°28 | 4°22 | T 13 | |
| W14 | 7 32 33 | 23° 9'24 | 25° 4 | 10°55 | 0°50 | 5°43 | 15°21 | 1° 8 | 7°11 | 26°56 | 26°45 | 19°24 | 20°52 | 27°35 | 4°23 | W14 | |
| T 15 | 7 36 30 | 24°10'33 | 8♁34 | 10°10 | 0°38 | 6°22 | 15°32 | 1°12 | 7°10 | 26°54 | 26°46 | 19°16 | 20°48 | 27°42 | 4°25 | T 15 | |
| F 16 | 7 40 26 | 25°11'42 | 22°15 | 9°35 | 0°28 | 7° 2 | 15°44 | 1°16 | 7°10 | 26°53 | 26°47 | 19°10 | 20°45 | 27°48 | 4°27 | F 16 | |
| S 17 | 7 44 23 | 26°12'51 | 6♁ 6 | 9°10 | 0°21 | 7°41 | 15°56 | 1°21 | 7°10 | 26°51 | 26°48 | 19° 7 | 20°42 | 27°55 | 4°29 | S 17 | |
| S 18 | 7 48 19 | 27°13'59 | 20° 3 | 8°55 | 0°17 | 8°21 | 16° 7 | 1°25 | 7°10 | 26°50 | 26°49 | 19°D 7 | 20°39 | 28° 2 | 4°30 | S 18 | |
| M19 | 7 52 16 | 28°15'07 | 4°Y 5 | 8°D49 | 0°D15 | 9° 1 | 16°19 | 1°30 | 7° 9 | 26°48 | 26°50 | 19° 7 | 20°36 | 28° 8 | 4°32 | M19 | |
| T 20 | 7 56 12 | 29°16'14 | 18° 9 | 8°53 | 0°15 | 9°40 | 16°31 | 1°34 | 7° 9 | 26°47 | 26°51 | 19° 8 | 20°33 | 28°15 | 4°34 | T 20 | |
| W21 | 8 0 9 | 0♁7'21 | 2♁16 | 9° 4 | 0°18 | 10°20 | 16°44 | 1°39 | 7° 8 | 26°46 | 26°52 | 19°R 9 | 20°29 | 28°22 | 4°36 | W21 | |
| T 22 | 8 4 6 | 1°18'27 | 16°24 | 9°23 | 0°23 | 10°59 | 16°56 | 1°44 | 7° 8 | 26°44 | 26°53 | 19° 8 | 20°26 | 28°28 | 4°38 | T 22 | |
| F 23 | 8 8 2 | 2°19'33 | 0♁31 | 9°49 | 0°30 | 11°39 | 17° 8 | 1°49 | 7° 7 | 26°43 | 26°54 | 19° 4 | 20°23 | 28°35 | 4°40 | F 23 | |
| S 24 | 8 11 59 | 3°20'38 | 14°35 | 10°21 | 0°40 | 12°18 | 17°20 | 1°53 | 7° 7 | 26°42 | 26°55 | 18°59 | 20°20 | 28°42 | 4°42 | S 24 | |
| S 25 | 8 15 55 | 4°21'42 | 28°33 | 10°58 | 0°52 | 12°58 | 17°33 | 1°58 | 7° 6 | 26°40 | 26°56 | 18°52 | 20°17 | 28°49 | 4°44 | S 25 | |
| M26 | 8 19 52 | 5°22'46 | 12♁22 | 11°41 | 1° 6 | 13°38 | 17°45 | 2° 4 | 7° 5 | 26°39 | 26°57 | 18°45 | 20°13 | 28°55 | 4°46 | M26 | |
| T 27 | 8 23 48 | 6°23'50 | 25°58 | 12°28 | 1°22 | 14°17 | 17°58 | 2° 9 | 7° 4 | 26°38 | 26°58 | 18°37 | 20°10 | 29° 2 | 4°48 | T 27 | |
| W28 | 8 27 45 | 7°24'52 | 9♁19 | 13°19 | 1°40 | 14°57 | 18°11 | 2°14 | 7° 3 | 26°37 | 26°59 | 18°31 | 20° 7 | 29° 9 | 4°51 | W28 | |
| T 29 | 8 31 41 | 8°25'54 | 22°22 | 14°14 | 2° 0 | 15°37 | 18°24 | 2°19 | 7° 2 | 26°36 | 27° 0 | 18°26 | 20° 4 | 29°15 | 4°53 | T 29 | |
| F 30 | 8 35 38 | 9°26'56 | 5♁ 7 | 15°12 | 2°22 | 16°16 | 18°36 | 2°25 | 7° 1 | 26°34 | 27° 1 | 18°23 | 20° 1 | 29°22 | 4°55 | F 30 | |
| S 31 | 8 39 35 | 10♁27'57 | 17♁35 | 16♁14 | 2♁46 | 16♁56 | 18♁49 | 2°Y30 | 7♁ 0 | 26♁33 | 27♁ 2 | 18°D22 | 19♁58 | 29♁29 | 4°Y58 | S 31 | |

Delta T = 17m27s

FEBRUARY 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♄ | ♅ | ♁ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 8 43 31 | 11♁28'58 | 29♁47 | 17♁18 | 3♁12 | 17♁36 | 19♁ 2 | 2°Y36 | 6°R59 | 26°R32 | 27♁ 3 | 18♁23 | 19♁54 | 29♁35 | 5°Y 0 | S 1 | |
| M 2 | 8 47 28 | 12°29'58 | 11♁48 | 18°24 | 3°39 | 18°15 | 19°15 | 2°41 | 6♁58 | 26♁31 | 27° 5 | 18°24 | 19°51 | 29°42 | 5° 2 | M 2 | |
| T 3 | 8 51 24 | 13°30'57 | 23°40 | 19°33 | 4° 8 | 18°55 | 19°28 | 2°47 | 6°57 | 26°30 | 27° 6 | 18°26 | 19°48 | 29°49 | 5° 5 | T 3 | |
| W 4 | 8 55 21 | 14°31'56 | 5♁30 | 20°43 | 4°39 | 19°35 | 19°42 | 2°52 | 6°56 | 26°29 | 27° 7 | 18°28 | 19°45 | 29°55 | 5° 7 | W 4 | |
| T 5 | 8 59 17 | 15°32'55 | 17°22 | 21°56 | 5°11 | 20°15 | 19°55 | 2°58 | 6°55 | 26°28 | 27° 8 | 18°R28 | 19°42 | 0♁ 2 | 5°10 | T 5 | |
| F 6 | 9 3 14 | 16°33'53 | 29°20 | 23°10 | 5°44 | 20°54 | 20° 8 | 3° 4 | 6°53 | 26°27 | 27° 9 | 18°27 | 19°39 | 0° 9 | 5°13 | F 6 | |
| S 7 | 9 7 10 | 17°34'51 | 11♁31 | 24°26 | 6°19 | 21°34 | 20°21 | 3°10 | 6°52 | 26°26 | 27°11 | 18°25 | 19°35 | 0°15 | 5°15 | S 7 | |
| S 8 | 9 11 7 | 18°35'48 | 23°58 | 25°43 | 6°56 | 22°14 | 20°35 | 3°16 | 6°50 | 26°25 | 27°12 | 18°21 | 19°32 | 0°22 | 5°18 | S 8 | |
| M 9 | 9 15 4 | 19°36'44 | 6♁44 | 27° 2 | 7°34 | 22°54 | 20°48 | 3°22 | 6°49 | 26°24 | 27°13 | 18°17 | 19°29 | 0°29 | 5°21 | M 9 | |
| T 10 | 9 19 0 | 20°37'39 | 19°51 | 28°22 | 8°13 | 23°34 | 21° 2 | 3°28 | 6°47 | 26°23 | 27°15 | 18°12 | 19°26 | 0°35 | 5°23 | T 10 | |
| W11 | 9 22 57 | 21°38'34 | 3♁20 | 29°43 | 8°53 | 24°13 | 21°15 | 3°34 | 6°46 | 26°23 | 27°16 | 18° 7 | 19°23 | 0°42 | 5°26 | W11 | |
| T 12 | 9 26 53 | 22°39'28 | 17°10 | 1♁ 6 | 9°34 | 24°53 | 21°29 | 3°40 | 6°44 | 26°22 | 27°17 | 18° 4 | 19°19 | 0°49 | 5°29 | T 12 | |
| F 13 | 9 30 50 | 23°40'21 | 1♁16 | 2°29 | 10°16 | 25°33 | 21°43 | 3°46 | 6°43 | 26°21 | 27°18 | 18° 2 | 19°16 | 0°55 | 5°32 | F 13 | |
| S 14 | 9 34 46 | 24°41'12 | 15°34 | 3°54 | 11° 0 | 26°13 | 21°56 | 3°53 | 6°41 | 26°20 | 27°20 | 18°D 1 | 19°13 | 1° 2 | 5°35 | S 14 | |
| S 15 | 9 38 43 | 25°42'02 | 29°59 | 5°19 | 11°44 | 26°53 | 22°10 | 3°59 | 6°39 | 26°20 | 27°21 | 18° 1 | 19°10 | 1° 9 | 5°38 | S 15 | |
| M16 | 9 42 39 | 26°42'51 | 14°Y28 | 6°45 | 12°30 | 27°32 | 22°24 | 4° 5 | 6°37 | 26°19 | 27°23 | 18° 2 | 19° 7 | 1°15 | 5°41 | M16 | |
| T 17 | 9 46 36 | 27°43'39 | 28°53 | 8°13 | 13°16 | 28°12 | 22°38 | 4°12 | 6°36 | 26°18 | 27°24 | 18° 4 | 19° 4 | 1°22 | 5°44 | T 17 | |
| W18 | 9 50 33 | 28°44'25 | 13♁12 | 9°41 | 14° 3 | 28°52 | 22°52 | 4°18 | 6°34 | 26°18 | 27°25 | 18° 5 | 19° 0 | 1°29 | 5°47 | W18 | |
| T 19 | 9 54 29 | 29°45'10 | 27°22 | 11°10 | 14°51 | 29°32 | 23° 6 | 4°25 | 6°32 | 26°17 | 27°27 | 18°R 6 | 18°57 | 1°35 | 5°50 | T 19 | |
| F 20 | 9 58 26 | 0♁45'53 | 11♁22 | 12°40 | 15°40 | 0♁12 | 23°20 | 4°31 | 6°30 | 26°16 | 27°28 | 18° 5 | 18°54 | 1°42 | 5°53 | F 20 | |
| S 21 | 10 2 22 | 1°46'34 | 25°10 | 14°11 | 16°30 | 0°52 | 23°34 | 4°38 | 6°28 | 26°16 | 27°30 | 18° 4 | 18°51 | 1°49 | 5°56 | S 21 | |
| S 22 | 10 6 19 | 2°47'14 | 8♁45 | 15°43 | 17°21 | 1°31 | 23°48 | 4°45 | 6°26 | 26°15 | 27°31 | 18° 3 | 18°48 | 1°55 | 5°59 | S 22 | |
| M23 | 10 10 15 | 3°47'52 | 22° 7 | 17°16 | 18°12 | 2°11 | 24° 2 | 4°51 | 6°24 | 26°15 | 27°33 | 18° 1 | 18°44 | 2° 2 | 6° 2 | M23 | |
| T 24 | 10 14 12 | 4°48'29 | 5♁17 | 18°49 | 19° 4 | 2°51 | 24°16 | 4°58 | 6°22 | 26°15 | 27°34 | 17°59 | 18°41 | 2° 9 | 6° 5 | T 24 | |
| W25 | 10 18 8 | 5°49'04 | 18°12 | 20°24 | 19°56 | 3°31 | 24°30 | 5° 5 | 6°20 | 26°14 | 27°35 | 17°57 | 18°38 | 2°16 | 6° 8 | W25 | |
| T 26 | 10 22 5 | 6°49'38 | 0♁55 | 21°59 | 20°50 | 4°11 | 24°45 | 5°11 | 6°18 | 26°14 | 27°37 | 17°56 | 18°35 | 2°22 | 6°12 | T 26 | |
| F 27 | 10 26 2 | 7°50'10 | 13°24 | 23°35 | 21°44 | 4°51 | 24°59 | 5°18 | 6°15 | 26°14 | 27°38 | 17°D55 | 18°32 | 2°29 | 6°15 | F 27 | |
| S 28 | 10 29 58 | 8°50'40 | 25°41 | 25°12 | 22°38 | 5°31 | 25°13 | 5°25 | 6°13 | 26°13 | 27°40 | 17°55 | 18°29 | 2°36 | 6°18 | S 28 | |
| S 29 | 10 33 55 | 9♁51'09 | 7♁48 | 26♁50 | 23♁33 | 6♁11 | 25♁27 | 5°Y32 | 6♁11 | 26♁13 | 27♁41 | 17♁56 | 18♁25 | 2♁42 | 6°Y21 | S 29 | |

Delta T = 17m27s

ASTRODIENST EPHEMERIS for the year 2556
geocentric

MARCH 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-------------------------------------|----------------------|---------------------|----------------------|----------------------|--------------------|--------------------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------|--------------------|------|
| M 1 | 10 37 51 | 10 ^h 51 ^m 37 | 19 ^h 46 | 28 ^h 29 | 24 ^h 29 | 6 ^h 51 | 25 ^h 42 | 5 ^h 39 | 6 ^h R 9 | 26 ^h R13 | 27 ^h 43 | 17 ^h 57 | 18 ^h 22 | 2 ^h 49 | 6 ^h 25 | M 1 |
| T 2 | 10 41 48 | 11 ^h 52 ^m 04 | 1 ^h 38 | 0 ^h 9 | 25 ^h 25 | 7 ^h 30 | 25 ^h 56 | 5 ^h 46 | 6 ^h 6 | 26 ^h II13 | 27 ^h 44 | 17 ^h 57 | 18 ^h 19 | 2 ^h 56 | 6 ^h 28 | T 2 |
| W 3 | 10 45 44 | 12 ^h 52 ^m 29 | 13 ^h 28 | 1 ^h 50 | 26 ^h 22 | 8 ^h 10 | 26 ^h 10 | 5 ^h 53 | 6 ^h 4 | 26 ^h 13 | 27 ^h 46 | 17 ^h 58 | 18 ^h 16 | 3 ^h 2 | 6 ^h 31 | W 3 |
| T 4 | 10 49 41 | 13 ^h 52 ^m 52 | 25 ^h 20 | 3 ^h 32 | 27 ^h 19 | 8 ^h 50 | 26 ^h 25 | 6 ^h 0 | 6 ^h 2 | 26 ^h 12 | 27 ^h 47 | 17 ^h 58 | 18 ^h 13 | 3 ^h 9 | 6 ^h 35 | T 4 |
| F 5 | 10 53 37 | 14 ^h 53 ^m 15 | 7 ^h 17 | 5 ^h 14 | 28 ^h 17 | 9 ^h 30 | 26 ^h 39 | 6 ^h 7 | 5 ^h 59 | 26 ^h 12 | 27 ^h 49 | 17 ^h 59 | 18 ^h 10 | 3 ^h 16 | 6 ^h 38 | F 5 |
| S 6 | 10 57 34 | 15 ^h 53 ^m 36 | 19 ^h 26 | 6 ^h 58 | 29 ^h 15 | 10 ^h 10 | 26 ^h 54 | 6 ^h 14 | 5 ^h 57 | 26 ^h 12 | 27 ^h 51 | 17 ^h R59 | 18 ^h 6 | 3 ^h 22 | 6 ^h 42 | S 6 |
| S 7 | 11 1 30 | 16 ^h 53 ^m 55 | 1 ^h 50 | 8 ^h 43 | 0 ^h 14 | 10 ^h 50 | 27 ^h 8 | 6 ^h 21 | 5 ^h 55 | 26 ^h D12 | 27 ^h 52 | 17 ^h 59 | 18 ^h 3 | 3 ^h 29 | 6 ^h 45 | S 7 |
| M 8 | 11 5 27 | 17 ^h 54 ^m 14 | 14 ^h 33 | 10 ^h 29 | 1 ^h 13 | 11 ^h 30 | 27 ^h 23 | 6 ^h 29 | 5 ^h 52 | 26 ^h 12 | 27 ^h 54 | 17 ^h D59 | 18 ^h 0 | 3 ^h 36 | 6 ^h 48 | M 8 |
| T 9 | 11 9 24 | 18 ^h 54 ^m 31 | 27 ^h 39 | 12 ^h 15 | 2 ^h 12 | 12 ^h 10 | 27 ^h 37 | 6 ^h 36 | 5 ^h 50 | 26 ^h 12 | 27 ^h 55 | 17 ^h 59 | 17 ^h 57 | 3 ^h 42 | 6 ^h 52 | T 9 |
| W10 | 11 13 20 | 19 ^h 54 ^m 46 | 11 ^h 10 | 14 ^h 3 | 3 ^h 12 | 12 ^h 50 | 27 ^h 52 | 6 ^h 43 | 5 ^h 47 | 26 ^h 12 | 27 ^h 57 | 17 ^h 59 | 17 ^h 54 | 3 ^h 49 | 6 ^h 55 | W10 |
| T 11 | 11 17 17 | 20 ^h 55 ^m 00 | 25 ^h 7 | 15 ^h 52 | 4 ^h 13 | 13 ^h 30 | 28 ^h 6 | 6 ^h 50 | 5 ^h 45 | 26 ^h 13 | 27 ^h 58 | 17 ^h 59 | 17 ^h 50 | 3 ^h 56 | 6 ^h 59 | T 11 |
| F 12 | 11 21 13 | 21 ^h 55 ^m 12 | 9 ^h 26 | 17 ^h 42 | 5 ^h 13 | 14 ^h 10 | 28 ^h 21 | 6 ^h 57 | 5 ^h 42 | 26 ^h 13 | 28 ^h 0 | 17 ^h 59 | 17 ^h 47 | 4 ^h 2 | 7 ^h 2 | F 12 |
| S 13 | 11 25 10 | 22 ^h 55 ^m 22 | 24 ^h 5 | 19 ^h 33 | 6 ^h 14 | 14 ^h 50 | 28 ^h 35 | 7 ^h 5 | 5 ^h 40 | 26 ^h 13 | 28 ^h 1 | 17 ^h R59 | 17 ^h 44 | 4 ^h 9 | 7 ^h 6 | S 13 |
| S 14 | 11 29 6 | 23 ^h 55 ^m 30 | 8 ^h 56 | 21 ^h 25 | 7 ^h 16 | 15 ^h 30 | 28 ^h 50 | 7 ^h 12 | 5 ^h 37 | 26 ^h 13 | 28 ^h 3 | 17 ^h 59 | 17 ^h 41 | 4 ^h 16 | 7 ^h 9 | S 14 |
| M15 | 11 33 3 | 24 ^h 55 ^m 37 | 23 ^h 51 | 23 ^h 18 | 8 ^h 18 | 16 ^h 10 | 29 ^h 4 | 7 ^h 19 | 5 ^h 35 | 26 ^h 13 | 28 ^h 5 | 17 ^h 58 | 17 ^h 38 | 4 ^h 23 | 7 ^h 13 | M15 |
| T 16 | 11 36 59 | 25 ^h 55 ^m 42 | 8 ^h 43 | 25 ^h 12 | 9 ^h 20 | 16 ^h 49 | 29 ^h 19 | 7 ^h 27 | 5 ^h 32 | 26 ^h 14 | 28 ^h 6 | 17 ^h 57 | 17 ^h 35 | 4 ^h 29 | 7 ^h 16 | T 16 |
| W17 | 11 40 56 | 26 ^h 55 ^m 45 | 23 ^h 25 | 27 ^h 6 | 10 ^h 22 | 17 ^h 29 | 29 ^h 33 | 7 ^h 34 | 5 ^h 29 | 26 ^h 14 | 28 ^h 8 | 17 ^h 56 | 17 ^h 31 | 4 ^h 36 | 7 ^h 20 | W17 |
| T 18 | 11 44 53 | 27 ^h 55 ^m 45 | 7 ^h II50 | 29 ^h 2 | 11 ^h 24 | 18 ^h 9 | 29 ^h 48 | 7 ^h 41 | 5 ^h 27 | 26 ^h 14 | 28 ^h 9 | 17 ^h 56 | 17 ^h 28 | 4 ^h 43 | 7 ^h 24 | T 18 |
| F 19 | 11 48 49 | 28 ^h 55 ^m 44 | 21 ^h 56 | 0 ^h 59 | 12 ^h 27 | 18 ^h 49 | 0 ^h Y 2 | 7 ^h 49 | 5 ^h 24 | 26 ^h 15 | 28 ^h 11 | 17 ^h 55 | 17 ^h 25 | 4 ^h 49 | 7 ^h 27 | F 19 |
| S 20 | 11 52 46 | 29 ^h 55 ^m 40 | 5 ^h 64 | 2 ^h 56 | 13 ^h 31 | 19 ^h 29 | 0 ^h 17 | 7 ^h 56 | 5 ^h 22 | 26 ^h 15 | 28 ^h 12 | 17 ^h D55 | 17 ^h 22 | 4 ^h 56 | 7 ^h 31 | S 20 |
| S 21 | 11 56 42 | 0 ^h Y55 ^m 34 | 19 ^h 6 | 4 ^h 54 | 14 ^h 34 | 20 ^h 9 | 0 ^h 32 | 8 ^h 3 | 5 ^h 19 | 26 ^h 16 | 28 ^h 14 | 17 ^h 56 | 17 ^h 19 | 5 ^h 3 | 7 ^h 34 | S 21 |
| M22 | 12 0 39 | 1 ^h 55 ^m 26 | 2 ^h II12 | 6 ^h 52 | 15 ^h 38 | 20 ^h 49 | 0 ^h 46 | 8 ^h 11 | 5 ^h 16 | 26 ^h 16 | 28 ^h 16 | 17 ^h 57 | 17 ^h 16 | 5 ^h 9 | 7 ^h 38 | M22 |
| T 23 | 12 4 35 | 2 ^h 55 ^m 15 | 15 ^h 2 | 8 ^h 51 | 16 ^h 42 | 21 ^h 29 | 1 ^h 1 | 8 ^h 18 | 5 ^h 14 | 26 ^h 17 | 28 ^h 17 | 17 ^h 58 | 17 ^h 12 | 5 ^h 16 | 7 ^h 41 | T 23 |
| W24 | 12 8 32 | 3 ^h 55 ^m 03 | 27 ^h 37 | 10 ^h 50 | 17 ^h 46 | 22 ^h 9 | 1 ^h 15 | 8 ^h 25 | 5 ^h 11 | 26 ^h 17 | 28 ^h 19 | 17 ^h 59 | 17 ^h 9 | 5 ^h 23 | 7 ^h 45 | W24 |
| T 25 | 12 12 28 | 4 ^h 54 ^m 48 | 10 ^h II 0 | 12 ^h 49 | 18 ^h 50 | 22 ^h 49 | 1 ^h 30 | 8 ^h 33 | 5 ^h 9 | 26 ^h 18 | 28 ^h 20 | 18 ^h 0 | 17 ^h 6 | 5 ^h 29 | 7 ^h 49 | T 25 |
| F 26 | 12 16 25 | 5 ^h 54 ^m 32 | 22 ^h 13 | 14 ^h 47 | 19 ^h 55 | 23 ^h 28 | 1 ^h 44 | 8 ^h 40 | 5 ^h 6 | 26 ^h 19 | 28 ^h 22 | 18 ^h R 0 | 17 ^h 3 | 5 ^h 36 | 7 ^h 52 | F 26 |
| S 27 | 12 20 22 | 6 ^h 54 ^m 13 | 4 ^h II18 | 16 ^h 45 | 21 ^h 0 | 24 ^h 8 | 1 ^h 59 | 8 ^h 48 | 5 ^h 3 | 26 ^h 19 | 28 ^h 23 | 17 ^h 59 | 17 ^h 0 | 5 ^h 43 | 7 ^h 56 | S 27 |
| S 28 | 12 24 18 | 7 ^h 53 ^m 52 | 16 ^h 16 | 18 ^h 42 | 22 ^h 5 | 24 ^h 48 | 2 ^h 13 | 8 ^h 55 | 5 ^h 1 | 26 ^h 20 | 28 ^h 25 | 17 ^h 57 | 16 ^h 56 | 5 ^h 49 | 7 ^h 59 | S 28 |
| M29 | 12 28 15 | 8 ^h 53 ^m 29 | 28 ^h 10 | 20 ^h 38 | 23 ^h 10 | 25 ^h 28 | 2 ^h 28 | 9 ^h 3 | 4 ^h 58 | 26 ^h 21 | 28 ^h 26 | 17 ^h 55 | 16 ^h 53 | 5 ^h 56 | 8 ^h 3 | M29 |
| T 30 | 12 32 11 | 9 ^h 53 ^m 05 | 10 ^h II 1 | 22 ^h 32 | 24 ^h 16 | 26 ^h 8 | 2 ^h 42 | 9 ^h 10 | 4 ^h 55 | 26 ^h 22 | 28 ^h 28 | 17 ^h 51 | 16 ^h 50 | 6 ^h 3 | 8 ^h 6 | T 30 |
| W31 | 12 36 8 | 10 ^h Y52 ^m 39 | 21 ^h II52 | 24 ^h Y24 | 25 ^h II22 | 26 ^h II48 | 2 ^h Y57 | 9 ^h Y17 | 4 ^h II53 | 26 ^h II22 | 28 ^h II30 | 17 ^h II47 | 16 ^h II47 | 6 ^h II10 | 8 ^h Y10 | W31 |

Delta T = 17m27s

APRIL 2556

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|------------------------------------|----------------------|---------------------|----------------------|----------------------|--------------------|--------------------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------|--------------------|------|
| T 1 | 12 40 4 | 11 ^h 52 ^m 11 | 3 ^h 45 | 26 ^h Y14 | 26 ^h II28 | 27 ^h II28 | 3 ^h Y11 | 9 ^h Y25 | 4 ^h R50 | 26 ^h II23 | 28 ^h II31 | 17 ^h R43 | 16 ^h II44 | 6 ^h II16 | 8 ^h Y14 | T 1 |
| F 2 | 12 44 1 | 12 ^h 51 ^m 41 | 15 ^h 43 | 28 ^h 0 | 27 ^h 34 | 28 ^h 8 | 3 ^h 26 | 9 ^h 32 | 4 ^h II48 | 26 ^h 24 | 28 ^h 33 | 17 ^h II40 | 16 ^h 41 | 6 ^h 23 | 8 ^h 17 | F 2 |
| S 3 | 12 47 57 | 13 ^h 51 ^m 09 | 27 ^h 51 | 29 ^h 43 | 28 ^h 40 | 28 ^h 47 | 3 ^h 40 | 9 ^h 40 | 4 ^h 45 | 26 ^h 25 | 28 ^h 34 | 17 ^h 38 | 16 ^h 37 | 6 ^h 30 | 8 ^h 21 | S 3 |
| S 4 | 12 51 54 | 14 ^h 50 ^m 36 | 10 ^h II12 | 1 ^h II23 | 29 ^h 46 | 29 ^h 27 | 3 ^h 55 | 9 ^h 47 | 4 ^h 42 | 26 ^h 26 | 28 ^h 36 | 17 ^h D37 | 16 ^h 34 | 6 ^h 36 | 8 ^h 24 | S 4 |
| M 5 | 12 55 50 | 15 ^h 50 ^m 01 | 22 ^h 50 | 2 ^h 58 | 0 ^h Y53 | 0 ^h II 7 | 4 ^h 9 | 9 ^h 54 | 4 ^h 40 | 26 ^h 27 | 28 ^h 37 | 17 ^h 37 | 16 ^h 31 | 6 ^h 43 | 8 ^h 28 | M 5 |
| T 6 | 12 59 47 | 16 ^h 49 ^m 24 | 5 ^h II49 | 4 ^h 28 | 2 ^h 0 | 0 ^h 47 | 4 ^h 24 | 10 ^h 2 | 4 ^h 37 | 26 ^h 28 | 28 ^h 39 | 17 ^h 38 | 16 ^h 28 | 6 ^h 50 | 8 ^h 32 | T 6 |
| W 7 | 13 3 44 | 17 ^h 48 ^m 45 | 19 ^h 14 | 5 ^h 54 | 3 ^h 7 | 1 ^h 27 | 4 ^h 38 | 10 ^h 9 | 4 ^h 35 | 26 ^h 29 | 28 ^h 40 | 17 ^h 39 | 16 ^h 25 | 6 ^h 56 | 8 ^h 35 | W 7 |
| T 8 | 13 7 40 | 18 ^h 48 ^m 05 | 3 ^h Y 5 | 7 ^h 14 | 4 ^h 14 | 2 ^h 6 | 4 ^h 52 | 10 ^h 17 | 4 ^h 32 | 26 ^h 30 | 28 ^h 42 | 17 ^h 41 | 16 ^h 21 | 7 ^h 3 | 8 ^h 39 | T 8 |
| F 9 | 13 11 37 | 19 ^h 47 ^m 22 | 17 ^h 24 | 8 ^h 29 | 5 ^h 21 | 2 ^h 46 | 5 ^h 7 | 10 ^h 24 | 4 ^h 30 | 26 ^h 31 | 28 ^h 43 | 17 ^h R41 | 16 ^h 18 | 7 ^h 10 | 8 ^h 42 | F 9 |
| S 10 | 13 15 33 | 20 ^h 46 ^m 38 | 2 ^h Y 7 | 9 ^h 37 | 6 ^h 29 | 3 ^h 26 | 5 ^h 21 | 10 ^h 31 | 4 ^h 27 | 26 ^h 32 | 28 ^h 45 | 17 ^h 41 | 16 ^h 15 | 7 ^h 16 | 8 ^h 46 | S 10 |
| S 11 | 13 19 30 | 21 ^h 45 ^m 52 | 17 ^h 9 | 10 ^h 40 | 7 ^h 36 | 4 ^h 6 | 5 ^h 35 | 10 ^h 39 | 4 ^h 25 | 26 ^h 33 | 28 ^h 46 | 17 ^h 38 | 16 ^h 12 | 7 ^h 23 | 8 ^h 49 | S 11 |
| M12 | 13 23 26 | 22 ^h 45 ^m 04 | 2 ^h II22 | 11 ^h 36 | 8 ^h 44 | 4 ^h 45 | 5 ^h 50 | 10 ^h 46 | 4 ^h 22 | 26 ^h 34 | 28 ^h 48 | 17 ^h 34 | 16 ^h 9 | 7 ^h 30 | 8 ^h 53 | M12 |
| T 13 | 13 27 23 | 23 ^h 44 ^m 14 | 17 ^h 34 | 12 ^h 26 | 9 ^h 52 | 5 ^h 25 | 6 ^h 4 | 10 ^h 53 | 4 ^h 20 | 26 ^h 36 | 28 ^h 49 | 17 ^h 29 | 16 ^h 6 | 7 ^h 36 | 8 ^h 56 | T 13 |
| W14 | 13 31 19 | 24 ^h 43 ^m 22 | 2 ^h II37 | 13 ^h 9 | 11 ^h 0 | 6 ^h 5 | 6 ^h 18 | 11 ^h 0 | 4 ^h 18 | 26 ^h 37 | 28 ^h 50 | 17 ^h 24 | 16 ^h 2 | 7 ^h 43 | 9 ^h 0 | W14 |
| T 15 | 13 35 16 | 2 | | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2556
geocentric

MAY 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 14 38 21 | 11♋23'03 | 6♌52 | 10°R 6 | 0♃30 | 17♌15 | 10♃13 | 13♃1 | 3°R41 | 27♋2 | 29♋13 | 16°R13 | 15♋8 | 9♋37 | 9♃57 | S 1 | |
| S 2 | 14 42 17 | 12°21'34 | 19°14 | 9♌25 | 1°39 | 17°54 | 10°27 | 13° 8 | 3♌39 | 27° 4 | 29°14 | 16♋8 | 15° 5 | 9°44 | 10° 0 | S 2 | |
| M 3 | 14 46 14 | 13°20'03 | 1♌51 | 8°44 | 2°49 | 18°34 | 10°40 | 13°15 | 3°37 | 27° 5 | 29°16 | 16° 5 | 15° 2 | 9°50 | 10° 3 | M 3 | |
| T 4 | 14 50 11 | 14°18'31 | 14°46 | 8° 4 | 3°59 | 19°13 | 10°54 | 13°21 | 3°35 | 27° 7 | 29°17 | 16°D 5 | 14°59 | 9°57 | 10° 6 | T 4 | |
| W 5 | 14 54 7 | 15°16'57 | 28° 3 | 7°27 | 5° 9 | 19°52 | 11° 7 | 13°28 | 3°33 | 27° 9 | 29°18 | 16° 5 | 14°56 | 10° 4 | 10° 9 | W 5 | |
| T 6 | 14 58 4 | 16°15'21 | 11♋44 | 6°53 | 6°19 | 20°31 | 11°20 | 13°35 | 3°32 | 27°11 | 29°19 | 16°R 6 | 14°52 | 10°10 | 10°12 | T 6 | |
| F 7 | 15 2 0 | 17°13'44 | 25°53 | 6°22 | 7°29 | 21°10 | 11°33 | 13°41 | 3°30 | 27°12 | 29°20 | 16° 5 | 14°49 | 10°17 | 10°15 | F 7 | |
| S 8 | 15 5 57 | 18°12'06 | 10♃27 | 5°54 | 8°39 | 21°49 | 11°46 | 13°48 | 3°28 | 27°14 | 29°21 | 16° 3 | 14°46 | 10°24 | 10°18 | S 8 | |
| S 9 | 15 9 53 | 19°10'25 | 25°24 | 5°31 | 9°49 | 22°28 | 12° 0 | 13°54 | 3°27 | 27°16 | 29°23 | 15°59 | 14°43 | 10°31 | 10°21 | S 9 | |
| M10 | 15 13 50 | 20° 8'44 | 10♌36 | 5°11 | 10°59 | 23° 6 | 12°12 | 14° 1 | 3°25 | 27°18 | 29°24 | 15°52 | 14°40 | 10°37 | 10°24 | M10 | |
| T 11 | 15 17 46 | 21° 7'00 | 25°53 | 4°57 | 12° 9 | 23°45 | 12°25 | 14° 7 | 3°24 | 27°20 | 29°25 | 15°43 | 14°37 | 10°44 | 10°27 | T 11 | |
| W12 | 15 21 43 | 22° 5'15 | 11♋5 | 4°47 | 13°19 | 24°24 | 12°38 | 14°14 | 3°22 | 27°22 | 29°26 | 15°33 | 14°33 | 10°51 | 10°30 | W12 | |
| T 13 | 15 25 40 | 23° 3'28 | 26° 1 | 4°41 | 14°30 | 25° 2 | 12°51 | 14°20 | 3°21 | 27°24 | 29°27 | 15°23 | 14°30 | 10°57 | 10°33 | T 13 | |
| F 14 | 15 29 36 | 24° 1'40 | 10♌32 | 4°D41 | 15°40 | 25°41 | 13° 4 | 14°26 | 3°20 | 27°25 | 29°28 | 15°15 | 14°27 | 11° 4 | 10°36 | F 14 | |
| S 15 | 15 33 33 | 24°59'49 | 24°34 | 4°45 | 16°51 | 26°20 | 13°16 | 14°33 | 3°18 | 27°27 | 29°29 | 15°10 | 14°24 | 11°11 | 10°38 | S 15 | |
| S 16 | 15 37 29 | 25°57'56 | 8♌7 | 4°54 | 18° 1 | 26°58 | 13°29 | 14°39 | 3°17 | 27°29 | 29°30 | 15° 6 | 14°21 | 11°17 | 10°41 | S 16 | |
| M17 | 15 41 26 | 26°56'02 | 21°12 | 5° 7 | 19°12 | 27°36 | 13°42 | 14°45 | 3°16 | 27°31 | 29°31 | 15° 5 | 14°18 | 11°24 | 10°44 | M17 | |
| T 18 | 15 45 22 | 27°54'05 | 3♋52 | 5°25 | 20°22 | 28°15 | 13°54 | 14°51 | 3°14 | 27°33 | 29°32 | 15°D 5 | 14°14 | 11°31 | 10°47 | T 18 | |
| W19 | 15 49 19 | 28°52'07 | 16°13 | 5°48 | 21°33 | 28°53 | 14° 6 | 14°57 | 3°13 | 27°35 | 29°33 | 15°R 5 | 14°11 | 11°38 | 10°49 | W19 | |
| T 20 | 15 53 15 | 29°50'07 | 28°19 | 6°15 | 22°43 | 29°31 | 14°19 | 15° 3 | 3°12 | 27°37 | 29°33 | 15° 4 | 14° 8 | 11°44 | 10°52 | T 20 | |
| F 21 | 15 57 12 | 0♂48'04 | 10♌16 | 6°45 | 23°54 | 0♋9 | 14°31 | 15° 9 | 3°11 | 27°39 | 29°34 | 15° 2 | 14° 5 | 11°51 | 10°54 | F 21 | |
| S 22 | 16 1 9 | 1°46'01 | 22° 7 | 7°20 | 25° 5 | 0°47 | 14°43 | 15°15 | 3°10 | 27°41 | 29°35 | 14°57 | 14° 2 | 11°58 | 10°57 | S 22 | |
| S 23 | 16 5 5 | 2°43'55 | 3♋57 | 7°59 | 26°16 | 1°25 | 14°55 | 15°21 | 3° 9 | 27°44 | 29°36 | 14°49 | 13°58 | 12° 4 | 10°59 | S 23 | |
| M24 | 16 9 2 | 3°41'48 | 15°47 | 8°42 | 27°26 | 2° 3 | 15° 7 | 15°27 | 3° 8 | 27°46 | 29°37 | 14°38 | 13°55 | 12°11 | 11° 2 | M24 | |
| T 25 | 16 12 58 | 4°39'39 | 27°41 | 9°28 | 28°37 | 2°41 | 15°19 | 15°32 | 3° 8 | 27°48 | 29°38 | 14°26 | 13°52 | 12°18 | 11° 4 | T 25 | |
| W26 | 16 16 55 | 5°37'29 | 9♌40 | 10°18 | 29°48 | 3°19 | 15°31 | 15°38 | 3° 7 | 27°50 | 29°38 | 14°12 | 13°49 | 12°24 | 11° 7 | W26 | |
| T 27 | 16 20 51 | 6°35'18 | 21°45 | 11°11 | 0♋59 | 3°56 | 15°42 | 15°44 | 3° 6 | 27°52 | 29°39 | 13°59 | 13°46 | 12°31 | 11° 9 | T 27 | |
| F 28 | 16 24 48 | 7°33'05 | 3♌58 | 12° 7 | 2°10 | 4°34 | 15°54 | 15°49 | 3° 5 | 27°54 | 29°40 | 13°47 | 13°43 | 12°38 | 11°11 | F 28 | |
| S 29 | 16 28 44 | 8°30'51 | 16°18 | 13° 7 | 3°21 | 5°11 | 16° 5 | 15°55 | 3° 5 | 27°56 | 29°41 | 13°36 | 13°39 | 12°45 | 11°14 | S 29 | |
| S 30 | 16 32 41 | 9°28'36 | 28°49 | 14°10 | 4°32 | 5°49 | 16°17 | 16° 0 | 3° 4 | 27°58 | 29°41 | 13°29 | 13°36 | 12°51 | 11°16 | S 30 | |
| M31 | 16 36 38 | 10♂26'20 | 11♌32 | 15♌16 | 5♌44 | 6♌26 | 16♃28 | 16♃5 | 3♌4 | 28♋0 | 29♋42 | 13♋24 | 13♋33 | 12♋58 | 11♃18 | M31 | |

Delta T = 17m28s

JUNE 2556

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| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|-----|
| T 1 | 16 40 34 | 11♋24'02 | 24♌29 | 16♌24 | 6♌55 | 7♌3 | 16♃39 | 16♃11 | 3°R 3 | 28♋3 | 29♋43 | 13°R22 | 13♋30 | 13♋5 | 11♃20 | T 1 | |
| W 2 | 16 44 31 | 12°21'44 | 7♌45 | 17°36 | 8° 6 | 7°40 | 16°51 | 16°16 | 3♌3 | 28° 5 | 29°43 | 13♋21 | 13°27 | 13°11 | 11°22 | W 2 | |
| T 3 | 16 48 27 | 13°19'24 | 21°40 | 18°50 | 9°17 | 8°17 | 17° 2 | 16°21 | 3° 2 | 28° 7 | 29°44 | 13°21 | 13°24 | 13°18 | 11°24 | T 3 | |
| F 4 | 16 52 24 | 14°17'04 | 5♃18 | 20° 7 | 10°28 | 8°54 | 17°13 | 16°26 | 3° 2 | 28° 9 | 29°45 | 13°20 | 13°20 | 13°25 | 11°26 | F 4 | |
| S 5 | 16 56 20 | 15°14'42 | 19°38 | 21°27 | 11°40 | 9°31 | 17°23 | 16°31 | 3° 2 | 28°11 | 29°45 | 13°18 | 13°17 | 13°32 | 11°28 | S 5 | |
| S 6 | 17 0 17 | 16°12'20 | 4♌20 | 22°49 | 12°51 | 10° 7 | 17°34 | 16°36 | 3° 2 | 28°13 | 29°46 | 13°12 | 13°14 | 13°38 | 11°30 | S 6 | |
| M 7 | 17 4 13 | 17° 9'57 | 19°17 | 24°14 | 14° 2 | 10°44 | 17°45 | 16°41 | 3° 1 | 28°16 | 29°46 | 13° 5 | 13°11 | 13°45 | 11°32 | M 7 | |
| T 8 | 17 8 10 | 18° 7'33 | 4♋22 | 25°42 | 15°14 | 11°20 | 17°55 | 16°46 | 3° 1 | 28°18 | 29°47 | 12°55 | 13° 8 | 13°52 | 11°34 | T 8 | |
| W 9 | 17 12 7 | 19° 5'08 | 19°26 | 27°12 | 16°25 | 11°57 | 18° 6 | 16°51 | 3°D 1 | 28°20 | 29°47 | 12°44 | 13° 4 | 13°58 | 11°36 | W 9 | |
| T 10 | 17 16 3 | 20° 2'42 | 4♌18 | 28°45 | 17°37 | 12°33 | 18°16 | 16°55 | 3° 1 | 28°22 | 29°48 | 12°33 | 13° 1 | 14° 5 | 11°38 | T 10 | |
| F 11 | 17 20 0 | 21° 0'15 | 18°49 | 0♂20 | 18°48 | 13° 9 | 18°26 | 17° 0 | 3° 1 | 28°25 | 29°48 | 12°24 | 12°58 | 14°12 | 11°39 | F 11 | |
| S 12 | 17 23 56 | 21°57'47 | 2♌55 | 1°58 | 20° 0 | 13°44 | 18°36 | 17° 4 | 3° 1 | 28°27 | 29°49 | 12°17 | 12°55 | 14°18 | 11°41 | S 12 | |
| S 13 | 17 27 53 | 22°55'17 | 16°32 | 3°38 | 21°11 | 14°20 | 18°46 | 17° 9 | 3° 2 | 28°29 | 29°49 | 12°12 | 12°52 | 14°25 | 11°43 | S 13 | |
| M14 | 17 31 49 | 23°52'46 | 29°41 | 5°21 | 22°23 | 14°56 | 18°56 | 17°13 | 3° 2 | 28°31 | 29°49 | 12°10 | 12°49 | 14°32 | 11°44 | M14 | |
| T 15 | 17 35 46 | 24°50'14 | 12♋24 | 7° 7 | 23°35 | 15°31 | 19° 6 | 17°17 | 3° 2 | 28°34 | 29°50 | 12°D10 | 12°45 | 14°39 | 11°46 | T 15 | |
| W16 | 17 39 42 | 25°47'41 | 24°47 | 8°54 | 24°46 | 16° 6 | 19°16 | 17°22 | 3° 2 | 28°36 | 29°50 | 12°R10 | 12°42 | 14°45 | 11°47 | W16 | |
| T 17 | 17 43 39 | 26°45'06 | 6♌55 | 10°45 | 25°58 | 16°41 | 19°25 | 17°26 | 3° 3 | 28°38 | 29°50 | 12° 9 | 12°39 | 14°52 | 11°49 | T 17 | |
| F 18 | 17 47 36 | 27°42'31 | 18°51 | 12°37 | 27°10 | 17°16 | 19°35 | 17°30 | 3° 3 | 28°40 | 29°50 | 12° 7 | 12°36 | 14°59 | 11°50 | F 18 | |
| S 19 | 17 51 32 | 28°39'54 | 0♋43 | 14°32 | 28°21 | 17°51 | 19°44 | 17°34 | 3° 4 | 28°42 | 29°51 | 12° 3 | 12°33 | 15° 5 | 11°51 | S 19 | |
| S 20 | 17 55 29 | 29°37'17 | 12°33 | 16°30 | 29°33 | 18°25 | 19°53 | 17°37 | 3° 4 | 28°45 | 29°51 | 11°57 | 12°30 | 15°12 | 11°53 | S 20 | |
| M21 | 17 59 25 | 0♌34'38 | 24°26 | 18°29 | 0♂45 | 19° 0 | 20° 2 | 17°41 | 3° 5 | 28°47 | 29°51 | 11°48 | 12°26 | 15°19 | 11°54 | M21 | |
| T 22 | 18 3 22 | 1°31'59 | 6♌24 | 20°31 | 1°57 | 19°34 | 20°11 | 17°45 | 3° 5 | 28°49 | 29°51 | 11°37 | 12°23 | 15°26 | 11°55 | T 22 | |
| W23 | 18 7 18 | 2°29'19 | 18°31 | 22°35 | 3° 9 | 20° 8 | 20°20 | 17°49 | 3° 6 | 28°51 | 29°52 | 11°24 | 12°20 | 15°32 | 11°56 | W23 | |
| T 24 | 18 11 15 | 3°26'38 | 0♌46 | 24°40 | 4°21 | 20°42 | 20°28 | 17°52 | 3° 7 | 28°54 | 29°52 | 11°12 | 12°17 | 15°39 | 11°57 | T 24 | |
| F 25 | 18 15 11 | 4°23'57 | 13°12 | 26°47 | 5°32 | 21°15 | 20°37 | 17°56 | 3° 8 | 28°56 | 29°52 | 11° 1 | 12°14 | 15°46 | 11°58 | F 25 | |
| S 26 | 18 19 8 | 5°21'15 | 25°47 | 28°56 | 6°44 | 21°49 | 20°45 | 17°59 | 3° 9 | 28°58 | 29°52 | 10°52 | 12°10 | 15°52 | 11°59 | S 26 | |
| S 27 | 18 23 5 | 6°18'32 | 8♌34 | 1♌5 | 7°56 | 22°22 | 20°54 | 18° 2 | 3° 9 | 29° 0 | 29°52 | 10°46 | 12° 7 | 15°59 | 12° 0 | S 27 | |
| M28 | 18 27 1 | 7°15'49 | 21°32 | 3°16 | 9° 8 | 22°55 | 21° 2 | 18° 5 | 3°10 | 29° 3 | 29°52 | 10°42 | 12° 4 | 16° 6 | 12° 1 | M28 | |
| T 29 | 18 30 58 | 8°13'06 | 4♌42 | 5°27 | 10°20 | 23°28 | 21°10 | 18° 8 | 3°11 | 29° 5 | 29°R52 | 10°D40 | 12° 1 | 16°12 | 12° 2 | T 29 | |
| W30 | 18 34 54 | 9°10'23 | 18♌5 | 7♌39 | 11♋33 | 24♌0 | 21♃17 | 18♃11 | 3♌12 | 29♋7 | 29♋52 | 10♋40 | 11♋58 | 16♋19 | 12♃3 | W30 | |

Delta T = 17m28s

ASTRODIENST EPHEMERIS for the year 2556
geocentric

JULY 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|------|-------|--------|--------|-------|-------|--------|------|
| T 1 | 18 38 51 | 10☾ 7'39 | 1♃43 | 9☾50 | 12♂45 | 24♁32 | 21♃25 | 18♃14 | 3♁14 | 29♂9 | 29°R52 | 10♂41 | 11♂55 | 16♂26 | 12♃3 | T 1 |
| F 2 | 18 42 47 | 11° 4'55 | 15°38 | 12° 2 | 13°57 | 25° 4 | 21°33 | 18°17 | 3°15 | 29°11 | 29♁52 | 10°R41 | 11°51 | 16°33 | 12° 4 | F 2 |
| S 3 | 18 46 44 | 12° 2'11 | 29°48 | 14°13 | 15° 9 | 25°36 | 21°40 | 18°20 | 3°16 | 29°14 | 29°52 | 10°40 | 11°48 | 16°39 | 12° 5 | S 3 |
| S 4 | 18 50 40 | 12°59'27 | 14♂13 | 16°23 | 16°21 | 26° 8 | 21°47 | 18°23 | 3°17 | 29°16 | 29°52 | 10°36 | 11°45 | 16°46 | 12° 5 | S 4 |
| M 5 | 18 54 37 | 13°56'43 | 28°50 | 18°33 | 17°33 | 26°39 | 21°54 | 18°25 | 3°18 | 29°18 | 29°52 | 10°31 | 11°42 | 16°53 | 12° 6 | M 5 |
| T 6 | 18 58 34 | 14°53'59 | 13♂32 | 20°41 | 18°46 | 27°10 | 22° 1 | 18°28 | 3°20 | 29°20 | 29°51 | 10°23 | 11°39 | 16°59 | 12° 6 | T 6 |
| W 7 | 19 2 30 | 15°51'16 | 28°14 | 22°48 | 19°58 | 27°41 | 22° 8 | 18°30 | 3°21 | 29°22 | 29°51 | 10°15 | 11°36 | 17° 6 | 12° 7 | W 7 |
| T 8 | 19 6 27 | 16°48'31 | 12☾48 | 24°53 | 21°10 | 28°11 | 22°15 | 18°32 | 3°23 | 29°25 | 29°51 | 10° 7 | 11°32 | 17°13 | 12° 7 | T 8 |
| F 9 | 19 10 23 | 17°45'47 | 27° 6 | 26°57 | 22°23 | 28°41 | 22°21 | 18°34 | 3°24 | 29°27 | 29°51 | 10° 0 | 11°29 | 17°20 | 12° 7 | F 9 |
| S 10 | 19 14 20 | 18°43'03 | 11♂3 | 29° 0 | 23°35 | 29°11 | 22°28 | 18°36 | 3°26 | 29°29 | 29°51 | 9°54 | 11°26 | 17°26 | 12° 8 | S 10 |
| S 11 | 19 18 16 | 19°40'18 | 24°35 | 1♂0 | 24°47 | 29°40 | 22°34 | 18°38 | 3°27 | 29°31 | 29°50 | 9°51 | 11°23 | 17°33 | 12° 8 | S 11 |
| M12 | 19 22 13 | 20°37'33 | 7♂43 | 2°59 | 26° 0 | 0♃9 | 22°40 | 18°40 | 3°29 | 29°33 | 29°50 | 9°D50 | 11°20 | 17°40 | 12° 8 | M12 |
| T 13 | 19 26 9 | 21°34'47 | 20°28 | 4°55 | 27°12 | 0°38 | 22°46 | 18°42 | 3°31 | 29°35 | 29°50 | 9°51 | 11°16 | 17°46 | 12° 8 | T 13 |
| W14 | 19 30 6 | 22°32'01 | 2♁54 | 6°50 | 28°25 | 1° 7 | 22°51 | 18°44 | 3°33 | 29°37 | 29°49 | 9°52 | 11°13 | 17°53 | 12°R 8 | W14 |
| T 15 | 19 34 3 | 23°29'15 | 15° 3 | 8°43 | 29°37 | 1°35 | 22°57 | 18°45 | 3°34 | 29°39 | 29°49 | 9°53 | 11°10 | 18° 0 | 12° 8 | T 15 |
| F 16 | 19 37 59 | 24°26'29 | 27° 2 | 10°34 | 0☾50 | 2° 2 | 23° 2 | 18°47 | 3°36 | 29°42 | 29°49 | 9°R53 | 11° 7 | 18° 7 | 12° 8 | F 16 |
| S 17 | 19 41 56 | 25°23'43 | 8♂55 | 12°23 | 2° 2 | 2°30 | 23° 7 | 18°48 | 3°38 | 29°44 | 29°48 | 9°52 | 11° 4 | 18°13 | 12° 8 | S 17 |
| S 18 | 19 45 52 | 26°20'56 | 20°47 | 14° 9 | 3°15 | 2°57 | 23°12 | 18°49 | 3°40 | 29°46 | 29°48 | 9°49 | 11° 1 | 18°20 | 12° 8 | S 18 |
| M19 | 19 49 49 | 27°18'09 | 2♁43 | 15°54 | 4°28 | 3°23 | 23°17 | 18°51 | 3°42 | 29°48 | 29°48 | 9°45 | 10°57 | 18°27 | 12° 8 | M19 |
| T 20 | 19 53 45 | 28°15'23 | 14°46 | 17°37 | 5°40 | 3°50 | 23°22 | 18°52 | 3°44 | 29°50 | 29°47 | 9°39 | 10°54 | 18°33 | 12° 7 | T 20 |
| W21 | 19 57 42 | 29°12'36 | 26°59 | 19°18 | 6°53 | 4°16 | 23°26 | 18°53 | 3°46 | 29°52 | 29°47 | 9°32 | 10°51 | 18°40 | 12° 7 | W21 |
| T 22 | 20 1 38 | 0♂9'49 | 9♁25 | 20°57 | 8° 6 | 4°41 | 23°31 | 18°53 | 3°48 | 29°54 | 29°46 | 9°25 | 10°48 | 18°47 | 12° 7 | T 22 |
| F 23 | 20 5 35 | 1° 7'03 | 22° 4 | 22°34 | 9°18 | 5° 6 | 23°35 | 18°54 | 3°50 | 29°56 | 29°46 | 9°19 | 10°45 | 18°54 | 12° 6 | F 23 |
| S 24 | 20 9 32 | 2° 4'17 | 4♁57 | 24° 9 | 10°31 | 5°31 | 23°39 | 18°55 | 3°53 | 29°58 | 29°45 | 9°13 | 10°42 | 19° 0 | 12° 6 | S 24 |
| S 25 | 20 13 28 | 3° 1'31 | 18° 4 | 25°41 | 11°44 | 5°55 | 23°42 | 18°56 | 3°55 | 29°59 | 29°45 | 9°10 | 10°38 | 19° 7 | 12° 5 | S 25 |
| M26 | 20 17 25 | 3°58'45 | 1♁23 | 27°12 | 12°57 | 6°18 | 23°46 | 18°56 | 3°57 | 0☾2 | 29°44 | 9° 8 | 10°35 | 19°14 | 12° 5 | M26 |
| T 27 | 20 21 21 | 4°56'00 | 14°55 | 28°41 | 14°10 | 6°42 | 23°49 | 18°56 | 4° 0 | 0° 3 | 29°43 | 9°D 8 | 10°32 | 19°20 | 12° 4 | T 27 |
| W28 | 20 25 18 | 5°53'16 | 28°37 | 0♂8 | 15°23 | 7° 4 | 23°53 | 18°57 | 4° 2 | 0° 5 | 29°43 | 9° 9 | 10°29 | 19°27 | 12° 3 | W28 |
| T 29 | 20 29 14 | 6°50'32 | 12♃29 | 1°32 | 16°36 | 7°27 | 23°56 | 18°57 | 4° 4 | 0° 7 | 29°42 | 9°11 | 10°26 | 19°34 | 12° 3 | T 29 |
| F 30 | 20 33 11 | 7°47'49 | 26°30 | 2°55 | 17°49 | 7°48 | 23°58 | 18°R57 | 4° 7 | 0° 9 | 29°41 | 9°12 | 10°22 | 19°41 | 12° 2 | F 30 |
| S 31 | 20 37 7 | 8♂45'07 | 10♁40 | 4♂16 | 19☾2 | 8♃10 | 24♃1 | 18♃57 | 4♁9 | 0☾11 | 29♁41 | 9°R12 | 10♂19 | 19♂47 | 12♃1 | S 31 |

Delta T = 17m28s

AUGUST 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|--------|--------|--------|------|------|--------|-------|-------|-------|--------|------|
| S 1 | 20 41 4 | 9♂42'26 | 24♁55 | 5♂34 | 20☾15 | 8♃30 | 24♃4 | 18°R57 | 4♁12 | 0☾13 | 29°R40 | 9°R11 | 10♂16 | 19♂54 | 12°R 0 | S 1 |
| M 2 | 20 45 1 | 10°39'45 | 9♂13 | 6°50 | 21°28 | 8°50 | 24° 6 | 18°♃57 | 4°14 | 0°15 | 29♁39 | 9♂9 | 10°13 | 20° 1 | 11°♃59 | M 2 |
| T 3 | 20 48 57 | 11°37'06 | 23°32 | 8° 4 | 22°41 | 9°10 | 24° 8 | 18°56 | 4°17 | 0°16 | 29°39 | 9° 6 | 10°10 | 20° 7 | 11°58 | T 3 |
| W 4 | 20 52 54 | 12°34'27 | 7☾47 | 9°15 | 23°54 | 9°29 | 24°10 | 18°56 | 4°20 | 0°18 | 29°38 | 9° 3 | 10° 7 | 20°14 | 11°57 | W 4 |
| T 5 | 20 56 50 | 13°31'49 | 21°54 | 10°24 | 25° 7 | 9°47 | 24°12 | 18°55 | 4°22 | 0°20 | 29°37 | 8°59 | 10° 3 | 20°21 | 11°56 | T 5 |
| F 6 | 21 0 47 | 14°29'12 | 5♂48 | 11°31 | 26°21 | 10° 5 | 24°13 | 18°55 | 4°25 | 0°22 | 29°36 | 8°56 | 10° 0 | 20°28 | 11°55 | F 6 |
| S 7 | 21 4 43 | 15°26'36 | 19°25 | 12°35 | 27°34 | 10°22 | 24°14 | 18°54 | 4°28 | 0°23 | 29°36 | 8°53 | 9°57 | 20°34 | 11°54 | S 7 |
| S 8 | 21 8 40 | 16°24'00 | 2♂44 | 13°36 | 28°47 | 10°39 | 24°15 | 18°53 | 4°31 | 0°25 | 29°35 | 8°D52 | 9°54 | 20°41 | 11°53 | S 8 |
| M 9 | 21 12 36 | 17°21'25 | 15°44 | 14°35 | 0♂0 | 10°55 | 24°16 | 18°52 | 4°33 | 0°27 | 29°34 | 8°52 | 9°51 | 20°48 | 11°51 | M 9 |
| T 10 | 21 16 33 | 18°18'51 | 28°25 | 15°30 | 1°14 | 11°10 | 24°17 | 18°51 | 4°36 | 0°28 | 29°33 | 8°53 | 9°48 | 20°54 | 11°50 | T 10 |
| W11 | 21 20 30 | 19°16'17 | 10♁48 | 16°23 | 2°27 | 11°24 | 24°18 | 18°50 | 4°39 | 0°30 | 29°32 | 8°55 | 9°44 | 21° 1 | 11°49 | W11 |
| T 12 | 21 24 26 | 20°13'44 | 22°58 | 17°12 | 3°41 | 11°38 | 24°18 | 18°49 | 4°42 | 0°32 | 29°31 | 8°56 | 9°41 | 21° 8 | 11°47 | T 12 |
| F 13 | 21 28 23 | 21°11'12 | 4♂58 | 17°58 | 4°54 | 11°52 | 24°R18 | 18°47 | 4°45 | 0°33 | 29°30 | 8°57 | 9°38 | 21°15 | 11°46 | F 13 |
| S 14 | 21 32 19 | 22° 8'40 | 16°52 | 18°41 | 6° 7 | 12° 4 | 24°18 | 18°46 | 4°48 | 0°35 | 29°29 | 8°R58 | 9°35 | 21°21 | 11°44 | S 14 |
| S 15 | 21 36 16 | 23° 6'09 | 28°45 | 19°19 | 7°21 | 12°16 | 24°18 | 18°44 | 4°51 | 0°36 | 29°29 | 8°58 | 9°32 | 21°28 | 11°43 | S 15 |
| M16 | 21 40 12 | 24° 3'39 | 10♁42 | 19°54 | 8°34 | 12°27 | 24°17 | 18°43 | 4°54 | 0°38 | 29°28 | 8°57 | 9°28 | 21°35 | 11°41 | M16 |
| T 17 | 21 44 9 | 25° 1'10 | 22°46 | 20°25 | 9°48 | 12°37 | 24°16 | 18°41 | 4°57 | 0°39 | 29°27 | 8°56 | 9°25 | 21°41 | 11°40 | T 17 |
| W18 | 21 48 5 | 25°58'41 | 5♁3 | 20°52 | 11° 2 | 12°47 | 24°16 | 18°39 | 5° 0 | 0°41 | 29°26 | 8°55 | 9°22 | 21°48 | 11°38 | W18 |
| T 19 | 21 52 2 | 26°56'14 | 17°35 | 21°14 | 12°15 | 12°56 | 24°15 | 18°37 | 5° 4 | 0°42 | 29°25 | 8°53 | 9°19 | 21°55 | 11°36 | T 19 |
| F 20 | 21 55 59 | 27°53'47 | 0♁25 | 21°32 | 13°29 | 13° 4 | 24°13 | 18°35 | 5° 7 | 0°44 | 29°24 | 8°51 | 9°16 | 22° 2 | 11°34 | F 20 |
| S 21 | 21 59 55 | 28°51'21 | 13°33 | 21°44 | 14°42 | 13°11 | 24°12 | 18°33 | 5°10 | 0°45 | 29°23 | 8°50 | 9°13 | 22° 8 | 11°33 | S 21 |
| S 22 | 22 3 52 | 29°48'56 | 26°59 | 21°52 | 15°56 | 13°18 | 24°10 | 18°31 | 5°13 | 0°46 | 29°22 | 8°50 | 9° 9 | 22°15 | 11°31 | S 22 |
| M23 | 22 7 48 | 0♂46'32 | 10♁43 | 21°R54 | 17°10 | 13°24 | 24° 8 | 18°29 | 5°17 | 0°48 | 29°21 | 8°D49 | 9° 6 | 22°22 | 11°29 | M23 |
| T 24 | 22 11 45 | 1°44'10 | 24°40 | 21°50 | 18°24 | 13°29 | 24° 6 | 18°26 | 5°20 | 0°49 | 29°20 | 8°50 | 9° 3 | 22°28 | 11°27 | T 24 |
| W25 | 22 15 41 | 2°41'49 | 8♃49 | 21°42 | 19°37 | 13°33 | 24° 4 | 18°24 | 5°23 | 0°50 | 29°18 | 8°50 | 9° 0 | 22°35 | 11°25 | W25 |
| T 26 | 22 19 38 | 3°39'29 | 23° 5 | 21°27 | 20°51 | 13°36 | 24° 2 | 18°21 | 5°26 | 0°51 | 29°17 | 8°51 | 8°57 | 22°42 | 11°23 | T 26 |
| F 27 | 22 23 34 | 4°37'11 | 7♁24 | 21° 7 | 22° 5 | 13°39 | 23°59 | 18°19 | 5°30 | 0°53 | 29°16 | 8°51 | 8°53 | 22°49 | 11°21 | F 27 |
| S 28 | 22 27 31 | 5°34'54 | 21°43 | 20°41 | 23°19 | 13°40 | 23°56 | 18°16 | 5°33 | 0°54 | 29°15 | 8°51 | 8°50 | 22°55 | 11°19 | S 28 |
| S 29 | 22 31 28 | 6°32'39 | 5♂58 | 20°10 | 24°33 | 13°R41 | 23°53 | 18°13 | 5°37 | 0°55 | 29°14 | 8°R51 | 8°47 | 23° 2 | 11°17 | S 29 |
| M30 | 22 35 24 | 7°30'26 | 20° 7 | 19°34 | 25°47 | 13°41 | 23°50 | 18°10 | 5°40 | 0°56 | 29°13 | 8°51 | 8°44 | 23° 9 | 11°15 | M30 |
| T 31 | 22 39 21 | 8♂28'15 | 4☾9 | 18♂53 | 27♂1 | 13♃40 | 23♃46 | 18♃7 | 5♁44 | 0☾57 | 29♁12 | 8°D51 | 8♂41 | 23♂15 | 11♃13 | T 31 |

Delta T = 17m29s

ASTRODIENST EPHEMERIS for the year 2556
geocentric

SEPTEMBER 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|--------|--------|--------|------|------|--------|-------|------|-------|--------|------|-----|
| W 1 | 22 43 17 | 9♎26°05 | 18♏0 | 18°R 7 | 28♏15 | 13°R38 | 23°R43 | 18°R 4 | 5♏47 | 0♏58 | 29°R11 | 8♎51 | 8♎38 | 23♎22 | 11°R10 | W 1 | |
| T 2 | 22 47 14 | 10°23'57 | 1♏♏39 | 17♎18 | 29°29 | 13°Y36 | 23°Y39 | 18°Y 1 | 5°50 | 0°59 | 29°R10 | 8°51 | 8°34 | 23°29 | 11°Y 8 | T 2 | |
| F 3 | 22 51 10 | 11°21'50 | 15° 6 | 16°26 | 0♎43 | 13°32 | 23°35 | 17°58 | 5°54 | 1° 0 | 29° 8 | 8°52 | 8°31 | 23°36 | 11° 6 | F 3 | |
| S 4 | 22 55 7 | 12°19'45 | 28°19 | 15°32 | 1°57 | 13°28 | 23°31 | 17°55 | 5°58 | 1° 1 | 29° 7 | 8°52 | 8°28 | 23°42 | 11° 4 | S 4 | |
| S 5 | 22 59 3 | 13°17'41 | 11♎18 | 14°37 | 3°11 | 13°23 | 23°27 | 17°51 | 6° 1 | 1° 2 | 29° 6 | 8°R52 | 8°25 | 23°49 | 11° 1 | S 5 | |
| M 6 | 23 3 0 | 14°15'39 | 24° 3 | 13°42 | 4°25 | 13°17 | 23°22 | 17°48 | 6° 5 | 1° 3 | 29° 5 | 8°52 | 8°22 | 23°56 | 10°59 | M 6 | |
| T 7 | 23 6 56 | 15°13'39 | 6♏33 | 12°48 | 5°40 | 13°10 | 23°18 | 17°44 | 6° 8 | 1° 4 | 29° 4 | 8°51 | 8°19 | 24° 2 | 10°57 | T 7 | |
| W 8 | 23 10 53 | 16°11'40 | 18°51 | 11°57 | 6°54 | 13° 3 | 23°13 | 17°41 | 6°12 | 1° 5 | 29° 3 | 8°50 | 8°15 | 24° 9 | 10°54 | W 8 | |
| T 9 | 23 14 50 | 17° 9'42 | 0♎58 | 11°10 | 8° 8 | 12°55 | 23° 8 | 17°37 | 6°16 | 1° 6 | 29° 1 | 8°49 | 8°12 | 24°16 | 10°52 | T 9 | |
| F 10 | 23 18 46 | 18° 7'46 | 12°56 | 10°27 | 9°22 | 12°46 | 23° 3 | 17°34 | 6°19 | 1° 7 | 29° 0 | 8°48 | 8° 9 | 24°23 | 10°49 | F 10 | |
| S 11 | 23 22 43 | 19° 5'51 | 24°50 | 9°50 | 10°37 | 12°36 | 22°57 | 17°30 | 6°23 | 1° 7 | 28°59 | 8°47 | 8° 6 | 24°29 | 10°47 | S 11 | |
| S 12 | 23 26 39 | 20° 3'58 | 6♏42 | 9°19 | 11°51 | 12°25 | 22°52 | 17°26 | 6°26 | 1° 8 | 28°58 | 8°46 | 8° 3 | 24°36 | 10°44 | S 12 | |
| M13 | 23 30 36 | 21° 2'06 | 18°37 | 8°56 | 13° 5 | 12°14 | 22°46 | 17°22 | 6°30 | 1° 9 | 28°57 | 8°D46 | 7°59 | 24°43 | 10°42 | M13 | |
| T 14 | 23 34 32 | 22° 0'15 | 0♏41 | 8°41 | 14°20 | 12° 2 | 22°40 | 17°18 | 6°34 | 1° 9 | 28°55 | 8°46 | 7°56 | 24°50 | 10°39 | T 14 | |
| W15 | 23 38 29 | 22°58'26 | 12°56 | 8°D34 | 15°34 | 11°50 | 22°34 | 17°14 | 6°38 | 1°10 | 28°54 | 8°47 | 7°53 | 24°56 | 10°37 | W15 | |
| T 16 | 23 42 25 | 23°56'38 | 25°29 | 8°36 | 16°48 | 11°37 | 22°28 | 17°10 | 6°41 | 1°11 | 28°53 | 8°48 | 7°50 | 25° 3 | 10°34 | T 16 | |
| F 17 | 23 46 22 | 24°54'52 | 8♏21 | 8°47 | 18° 3 | 11°23 | 22°22 | 17° 6 | 6°45 | 1°11 | 28°52 | 8°49 | 7°47 | 25°10 | 10°32 | F 17 | |
| S 18 | 23 50 19 | 25°53'07 | 21°37 | 9° 7 | 19°17 | 11° 9 | 22°16 | 17° 2 | 6°49 | 1°12 | 28°51 | 8°50 | 7°44 | 25°16 | 10°29 | S 18 | |
| S 19 | 23 54 15 | 26°51'24 | 5♏16 | 9°36 | 20°32 | 10°55 | 22° 9 | 16°58 | 6°52 | 1°12 | 28°49 | 8°R51 | 7°40 | 25°23 | 10°26 | S 19 | |
| M20 | 23 58 12 | 27°49'43 | 19°18 | 10°13 | 21°46 | 10°40 | 22° 3 | 16°53 | 6°56 | 1°13 | 28°48 | 8°50 | 7°37 | 25°30 | 10°24 | M20 | |
| T 21 | 0 2 8 | 28°48'03 | 3°Y40 | 10°59 | 23° 1 | 10°24 | 21°56 | 16°49 | 7° 0 | 1°13 | 28°47 | 8°49 | 7°34 | 25°37 | 10°21 | T 21 | |
| W22 | 0 6 5 | 29°46'25 | 18°16 | 11°53 | 24°15 | 10° 9 | 21°49 | 16°45 | 7° 4 | 1°14 | 28°46 | 8°47 | 7°31 | 25°43 | 10°18 | W22 | |
| T 23 | 0 10 1 | 0♏44'49 | 3♏ 0 | 12°54 | 25°30 | 9°53 | 21°42 | 16°40 | 7° 8 | 1°14 | 28°44 | 8°44 | 7°28 | 25°50 | 10°16 | T 23 | |
| F 24 | 0 13 58 | 1°43'15 | 17°44 | 14° 2 | 26°44 | 9°36 | 21°35 | 16°36 | 7°11 | 1°14 | 28°43 | 8°41 | 7°24 | 25°57 | 10°13 | F 24 | |
| S 25 | 0 17 54 | 2°41'43 | 2♎22 | 15°16 | 27°59 | 9°20 | 21°28 | 16°32 | 7°15 | 1°15 | 28°42 | 8°39 | 7°21 | 26° 3 | 10°10 | S 25 | |
| S 26 | 0 21 51 | 3°40'14 | 16°49 | 16°37 | 29°14 | 9° 3 | 21°21 | 16°27 | 7°19 | 1°15 | 28°41 | 8°37 | 7°18 | 26°10 | 10° 8 | S 26 | |
| M27 | 0 25 48 | 4°38'46 | 1♏0 | 18° 2 | 0♏28 | 8°46 | 21°13 | 16°23 | 7°23 | 1°15 | 28°40 | 8°D36 | 7°15 | 26°17 | 10° 5 | M27 | |
| T 28 | 0 29 44 | 5°37'21 | 14°53 | 19°32 | 1°43 | 8°29 | 21° 6 | 16°18 | 7°26 | 1°15 | 28°38 | 8°36 | 7°12 | 26°24 | 10° 2 | T 28 | |
| W29 | 0 33 41 | 6°35'58 | 28°29 | 21° 7 | 2°57 | 8°11 | 20°58 | 16°14 | 7°30 | 1°15 | 28°37 | 8°37 | 7° 9 | 26°30 | 10° 0 | W29 | |
| T 30 | 0 37 37 | 7♏34'37 | 11♏49 | 22♎44 | 4♏12 | 7°Y54 | 20°Y51 | 16°Y 9 | 7♏34 | 1♏16 | 28♏36 | 8♎39 | 7♎5 | 26♎37 | 9°Y57 | T 30 | |

Delta T = 17m29s

OCTOBER 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|--------|--------|------|-------|--------|-------|------|-------|-------|------|-----|
| F 1 | 0 41 34 | 8♏33'18 | 24♏53 | 24♎25 | 5♏27 | 7°R37 | 20°R43 | 16°R 4 | 7♏38 | 1♏16 | 28°R35 | 8♎40 | 7♎2 | 26♎44 | 9°R54 | F 1 | |
| S 2 | 0 45 30 | 9°32'01 | 7♎44 | 26° 7 | 6°42 | 7°Y20 | 20°Y35 | 16°Y 0 | 7°42 | 1°16 | 28°R33 | 8°R41 | 6°59 | 26°50 | 9°Y51 | S 2 | |
| S 3 | 0 49 27 | 10°30'47 | 20°22 | 27°52 | 7°56 | 7° 3 | 20°27 | 15°55 | 7°45 | 1°16 | 28°32 | 8°40 | 6°56 | 26°57 | 9°49 | S 3 | |
| M 4 | 0 53 23 | 11°29'34 | 2♏50 | 29°38 | 9°11 | 6°46 | 20°19 | 15°50 | 7°49 | 1°R16 | 28°31 | 8°38 | 6°53 | 27° 4 | 9°46 | M 4 | |
| T 5 | 0 57 20 | 12°28'23 | 15° 7 | 1♏25 | 10°26 | 6°30 | 20°12 | 15°46 | 7°53 | 1°16 | 28°30 | 8°34 | 6°50 | 27°11 | 9°43 | T 5 | |
| W 6 | 1 1 16 | 13°27'15 | 27°16 | 3°13 | 11°41 | 6°14 | 20° 4 | 15°41 | 7°57 | 1°16 | 28°29 | 8°29 | 6°46 | 27°17 | 9°40 | W 6 | |
| T 7 | 1 5 13 | 14°26'08 | 9♎17 | 5° 2 | 12°55 | 5°58 | 19°56 | 15°36 | 8° 1 | 1°16 | 28°28 | 8°22 | 6°43 | 27°24 | 9°38 | T 7 | |
| F 8 | 1 9 10 | 15°25'03 | 21°13 | 6°51 | 14°10 | 5°43 | 19°48 | 15°32 | 8° 4 | 1°16 | 28°26 | 8°15 | 6°40 | 27°31 | 9°35 | F 8 | |
| S 9 | 1 13 6 | 16°24'00 | 3♏4 | 8°39 | 15°25 | 5°28 | 19°40 | 15°27 | 8° 8 | 1°15 | 28°25 | 8° 9 | 6°37 | 27°38 | 9°32 | S 9 | |
| S 10 | 1 17 3 | 17°22'59 | 14°55 | 10°28 | 16°40 | 5°13 | 19°31 | 15°22 | 8°12 | 1°15 | 28°24 | 8° 3 | 6°34 | 27°44 | 9°30 | S 10 | |
| M11 | 1 20 59 | 18°22'00 | 26°49 | 12°16 | 17°55 | 4°59 | 19°23 | 15°18 | 8°16 | 1°15 | 28°23 | 7°59 | 6°30 | 27°51 | 9°27 | M11 | |
| T 12 | 1 24 56 | 19°21'02 | 8♏50 | 14° 4 | 19°10 | 4°46 | 19°15 | 15°13 | 8°19 | 1°15 | 28°22 | 7°56 | 6°27 | 27°58 | 9°24 | T 12 | |
| W13 | 1 28 52 | 20°20'06 | 21° 1 | 15°52 | 20°25 | 4°33 | 19° 7 | 15° 8 | 8°23 | 1°14 | 28°21 | 7°D56 | 6°24 | 28° 4 | 9°22 | W13 | |
| T 14 | 1 32 49 | 21°19'12 | 3♏29 | 17°39 | 21°39 | 4°20 | 18°59 | 15° 4 | 8°27 | 1°14 | 28°20 | 7°56 | 6°21 | 28°11 | 9°19 | T 14 | |
| F 15 | 1 36 45 | 22°18'20 | 16°18 | 19°25 | 22°54 | 4° 9 | 18°51 | 14°59 | 8°31 | 1°14 | 28°18 | 7°58 | 6°18 | 28°18 | 9°16 | F 15 | |
| S 16 | 1 40 42 | 23°17'29 | 29°31 | 21°11 | 24° 9 | 3°58 | 18°43 | 14°55 | 8°34 | 1°13 | 28°17 | 7°59 | 6°15 | 28°25 | 9°14 | S 16 | |
| S 17 | 1 44 39 | 24°16'40 | 13♏12 | 22°56 | 25°24 | 3°47 | 18°35 | 14°50 | 8°38 | 1°13 | 28°16 | 7°R59 | 6°11 | 28°31 | 9°11 | S 17 | |
| M18 | 1 48 35 | 25°15'53 | 27°20 | 24°40 | 26°39 | 3°38 | 18°27 | 14°45 | 8°42 | 1°12 | 28°15 | 7°58 | 6° 8 | 28°38 | 9° 8 | M18 | |
| T 19 | 1 52 32 | 26°15'08 | 11°Y55 | 26°24 | 27°54 | 3°29 | 18°19 | 14°41 | 8°45 | 1°12 | 28°14 | 7°54 | 6° 5 | 28°45 | 9° 6 | T 19 | |
| W20 | 1 56 28 | 27°14'24 | 26°50 | 28° 7 | 29° 9 | 3°21 | 18°11 | 14°36 | 8°49 | 1°11 | 28°13 | 7°48 | 6° 2 | 28°51 | 9° 3 | W20 | |
| T 21 | 2 0 25 | 28°13'43 | 11♏57 | 29°49 | 0♎24 | 3°13 | 18° 4 | 14°32 | 8°53 | 1°11 | 28°12 | 7°41 | 5°59 | 28°58 | 9° 1 | T 21 | |
| F 22 | 2 4 21 | 29°13'04 | 27° 6 | 1♎31 | 1°39 | 3° 7 | 17°56 | 14°27 | 8°56 | 1°10 | 28°11 | 7°33 | 5°56 | 29° 5 | 8°58 | F 22 | |
| S 23 | 2 8 18 | 0♎12'27 | 12♎6 | 3°11 | 2°54 | 3° 1 | 17°48 | 14°23 | 9° 0 | 1°10 | 28°10 | 7°25 | 5°52 | 29°12 | 8°56 | S 23 | |
| S 24 | 2 12 14 | 1°11'52 | 26°52 | 4°51 | 4° 9 | 2°56 | 17°40 | 14°19 | 9° 3 | 1° 9 | 28° 9 | 7°19 | 5°49 | 29°18 | 8°53 | S 24 | |
| M25 | 2 16 11 | 2°11'19 | 11♏15 | 6°31 | 5°24 | 2°51 | 17°33 | 14°14 | 9° 7 | 1° 8 | 28° 8 | 7°15 | 5°46 | 29°25 | 8°51 | M25 | |
| T 26 | 2 20 8 | 3°10'49 | 25°13 | 8° 9 | 6°39 | 2°48 | 17°25 | 14°10 | 9°11 | 1° 8 | 28° 7 | 7°13 | 5°43 | 29°32 | 8°48 | T 26 | |
| W27 | 2 24 4 | 4°10'21 | 8♏46 | 9°47 | 7°54 | 2°45 | 17°18 | 14° 6 | 9°14 | 1° 7 | 28° 6 | 7°D13 | 5°40 | 29°39 | 8°46 | W27 | |
| T 28 | 2 28 1 | 5° 9'56 | 21°56 | 11°25 | 9° 9 | 2°43 | 17°11 | 14° 2 | 9°18 | 1° 6 | 28° 5 | 7°14 | 5°36 | 29°45 | 8°44 | T 28 | |
| F 29 | 2 31 57 | 6° 9'32 | 4♎47 | 13° 2 | 10°24 | 2°41 | 17° 3 | 13°57 | 9°21 | 1° 5 | 28° 4 | 7°R14 | 5°33 | 29°52 | 8°41 | F 29 | |
| S 30 | 2 35 54 | 7° 9'11 | 17°22 | 14°38 | 11°39 | 2°D41 | 16°56 | 13°53 | 9°25 | 1° 5 | 28° 3 | 7°14 | 5°30 | 29°59 | 8°39 | S 30 | |
| S 31 | 2 39 50 | 8♎8'52 | 29♎45 | 16♎13 | 12♎54 | 2°Y41 | 16°Y49 | 13°Y49 | 9♏28 | 1♏4 | 28♏2 | 7♎11 | 5♎27 | 0♏5 | 8°Y37 | S 31 | |

Delta T = 17m29s

ASTRODIENST EPHEMERIS for the year 2556
geocentric

NOVEMBER 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|------|------|-------|------|-----|
| M 1 | 2 43 47 | 9♐ 8'35 | 11♋58 | 17♌49 | 14♌ 9 | 2♃43 | 16°R42 | 13°R45 | 9♎31 | 1°R 3 | 28°R 2 | 7°R 6 | 5♎24 | 0♌12 | 8°R34 | M 1 | |
| T 2 | 2 47 43 | 10° 8'20 | 24° 3 | 19°23 | 15°24 | 2°44 | 16°Y36 | 13°Y41 | 9°35 | 1♉ 2 | 28°K 1 | 6♎58 | 5°21 | 0°19 | 8°Y32 | T 2 | |
| W 3 | 2 51 40 | 11° 8'07 | 6♌ 3 | 20°57 | 16°39 | 2°47 | 16°29 | 13°37 | 9°38 | 1° 1 | 28° 0 | 6°48 | 5°17 | 0°26 | 8°30 | W 3 | |
| T 4 | 2 55 37 | 12° 7'57 | 17°59 | 22°30 | 17°54 | 2°51 | 16°22 | 13°34 | 9°42 | 1° 0 | 27°59 | 6°35 | 5°14 | 0°32 | 8°28 | T 4 | |
| F 5 | 2 59 33 | 13° 7'48 | 29°52 | 24° 3 | 19° 9 | 2°55 | 16°16 | 13°30 | 9°45 | 0°59 | 27°58 | 6°22 | 5°11 | 0°39 | 8°26 | F 5 | |
| S 6 | 3 3 30 | 14° 7'41 | 11♌43 | 25°36 | 20°24 | 3° 0 | 16°10 | 13°26 | 9°48 | 0°58 | 27°57 | 6° 9 | 5° 8 | 0°46 | 8°24 | S 6 | |
| S 7 | 3 7 26 | 15° 7'35 | 23°35 | 27° 8 | 21°39 | 3° 6 | 16° 4 | 13°23 | 9°52 | 0°57 | 27°57 | 5°58 | 5° 5 | 0°52 | 8°21 | S 7 | |
| M 8 | 3 11 23 | 16° 7'32 | 5♌29 | 28°39 | 22°55 | 3°13 | 15°58 | 13°19 | 9°55 | 0°56 | 27°56 | 5°48 | 5° 1 | 0°59 | 8°19 | M 8 | |
| T 9 | 3 15 19 | 17° 7'30 | 17°29 | 0♌10 | 24°10 | 3°20 | 15°52 | 13°16 | 9°58 | 0°55 | 27°55 | 5°42 | 4°58 | 1° 6 | 8°17 | T 9 | |
| W10 | 3 19 16 | 18° 7'30 | 29°39 | 1°40 | 25°25 | 3°28 | 15°46 | 13°12 | 10° 1 | 0°54 | 27°54 | 5°38 | 4°55 | 1°13 | 8°16 | W10 | |
| T 11 | 3 23 12 | 19° 7'31 | 12♋ 2 | 3°10 | 26°40 | 3°37 | 15°41 | 13° 9 | 10° 4 | 0°52 | 27°54 | 5°36 | 4°52 | 1°19 | 8°14 | T 11 | |
| F 12 | 3 27 9 | 20° 7'34 | 24°44 | 4°40 | 27°55 | 3°46 | 15°35 | 13° 6 | 10° 8 | 0°51 | 27°53 | 5°D36 | 4°49 | 1°26 | 8°12 | F 12 | |
| S 13 | 3 31 6 | 21° 7'39 | 7♌49 | 6° 9 | 29°10 | 3°57 | 15°30 | 13° 2 | 10°11 | 0°50 | 27°52 | 5°R37 | 4°46 | 1°33 | 8°10 | S 13 | |
| S 14 | 3 35 2 | 22° 7'45 | 21°22 | 7°38 | 0♌25 | 4° 7 | 15°25 | 12°59 | 10°14 | 0°49 | 27°52 | 5°36 | 4°42 | 1°40 | 8° 8 | S 14 | |
| M15 | 3 38 59 | 23° 7'52 | 5♃24 | 9° 6 | 1°40 | 4°19 | 15°20 | 12°56 | 10°17 | 0°48 | 27°51 | 5°33 | 4°39 | 1°46 | 8° 6 | M15 | |
| T 16 | 3 42 55 | 24° 8'01 | 19°56 | 10°33 | 2°55 | 4°31 | 15°16 | 12°53 | 10°20 | 0°46 | 27°51 | 5°27 | 4°36 | 1°53 | 8° 5 | T 16 | |
| W17 | 3 46 52 | 25° 8'12 | 4♌53 | 12° 0 | 4°11 | 4°44 | 15°11 | 12°50 | 10°23 | 0°45 | 27°50 | 5°19 | 4°33 | 2° 0 | 8° 3 | W17 | |
| T 18 | 3 50 48 | 26° 8'24 | 20° 8 | 13°26 | 5°26 | 4°58 | 15° 7 | 12°48 | 10°26 | 0°44 | 27°50 | 5° 9 | 4°30 | 2° 6 | 8° 1 | T 18 | |
| F 19 | 3 54 45 | 27° 8'38 | 5♂30 | 14°52 | 6°41 | 5°12 | 15° 3 | 12°45 | 10°29 | 0°42 | 27°49 | 4°57 | 4°27 | 2°13 | 8° 0 | F 19 | |
| S 20 | 3 58 41 | 28° 8'54 | 20°48 | 16°17 | 7°56 | 5°26 | 14°59 | 12°42 | 10°31 | 0°41 | 27°48 | 4°46 | 4°23 | 2°20 | 7°58 | S 20 | |
| S 21 | 4 2 38 | 29° 9'11 | 5♎50 | 17°42 | 9°11 | 5°42 | 14°55 | 12°40 | 10°34 | 0°40 | 27°48 | 4°37 | 4°20 | 2°27 | 7°57 | S 21 | |
| M22 | 4 6 35 | 0♌ 9'31 | 20°28 | 19° 5 | 10°26 | 5°57 | 14°52 | 12°38 | 10°37 | 0°38 | 27°48 | 4°30 | 4°17 | 2°33 | 7°56 | M22 | |
| T 23 | 4 10 31 | 1° 9'52 | 4♌28 | 20°28 | 11°41 | 6°14 | 14°48 | 12°35 | 10°40 | 0°37 | 27°47 | 4°26 | 4°14 | 2°40 | 7°54 | T 23 | |
| W24 | 4 14 28 | 2°10'15 | 18°18 | 21°50 | 12°56 | 6°31 | 14°45 | 12°33 | 10°43 | 0°35 | 27°47 | 4°24 | 4°11 | 2°47 | 7°53 | W24 | |
| T 25 | 4 18 24 | 3°10'40 | 1♎31 | 23°10 | 14°11 | 6°48 | 14°42 | 12°31 | 10°45 | 0°34 | 27°46 | 4°24 | 4° 7 | 2°53 | 7°52 | T 25 | |
| F 26 | 4 22 21 | 4°11'07 | 14°20 | 24°30 | 15°27 | 7° 6 | 14°39 | 12°29 | 10°48 | 0°32 | 27°46 | 4°24 | 4° 4 | 3° 0 | 7°50 | F 26 | |
| S 27 | 4 26 17 | 5°11'36 | 26°49 | 25°48 | 16°42 | 7°25 | 14°37 | 12°27 | 10°51 | 0°31 | 27°46 | 4°23 | 4° 1 | 3° 7 | 7°49 | S 27 | |
| S 28 | 4 30 14 | 6°12'06 | 9♎ 4 | 27° 5 | 17°57 | 7°44 | 14°34 | 12°25 | 10°53 | 0°29 | 27°45 | 4°19 | 3°58 | 3°14 | 7°48 | S 28 | |
| M29 | 4 34 10 | 7°12'38 | 21° 8 | 28°20 | 19°12 | 8° 3 | 14°32 | 12°24 | 10°56 | 0°28 | 27°45 | 4°13 | 3°55 | 3°20 | 7°47 | M29 | |
| T 30 | 4 38 7 | 8°13'12 | 3♌ 6 | 29°13 | 20°27 | 8°Y23 | 14°Y30 | 12°Y22 | 10°58 | 0°26 | 27°K45 | 4♎ 4 | 3♎52 | 3°27 | 7°Y46 | T 30 | |

Delta T = 17m30s

DECEMBER 2556

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|--------|--------|--------|-------|---------|--------|-------|------|------|-------|------|-----|
| W 1 | 4 42 4 | 9♏13'48 | 15♌ 0 | 0♌44 | 21♌42 | 8°Y44 | 14°R29 | 12°R20 | 11♎ 0 | 0°R25 | 27°R44 | 3°R52 | 3♎48 | 3♌34 | 7°R45 | W 1 | |
| T 2 | 4 46 0 | 10°14'25 | 26°52 | 1°52 | 22°57 | 9° 5 | 14°Y27 | 12°Y19 | 11° 3 | 0°23 | 27°K44 | 3♎38 | 3°45 | 3°41 | 7°Y44 | T 2 | |
| F 3 | 4 49 57 | 11°15'03 | 8♌44 | 2°57 | 24°13 | 9°26 | 14°26 | 12°18 | 11° 5 | 0°22 | 27°44 | 3°23 | 3°42 | 3°47 | 7°43 | F 3 | |
| S 4 | 4 53 53 | 12°15'43 | 20°37 | 3°59 | 25°28 | 9°48 | 14°25 | 12°16 | 11° 8 | 0°20 | 27°44 | 3° 8 | 3°39 | 3°54 | 7°42 | S 4 | |
| S 5 | 4 57 50 | 13°16'25 | 2♌33 | 4°58 | 26°43 | 10°10 | 14°24 | 12°15 | 11°10 | 0°18 | 27°44 | 2°55 | 3°36 | 4° 1 | 7°42 | S 5 | |
| M 6 | 5 1 46 | 14°17'07 | 14°33 | 5°52 | 27°58 | 10°33 | 14°23 | 12°14 | 11°12 | 0°17 | 27°43 | 2°44 | 3°33 | 4° 7 | 7°41 | M 6 | |
| T 7 | 5 5 43 | 15°17'51 | 26°38 | 6°42 | 29°13 | 10°56 | 14°22 | 12°13 | 11°14 | 0°15 | 27°43 | 2°36 | 3°29 | 4°14 | 7°40 | T 7 | |
| W 8 | 5 9 39 | 16°18'36 | 8♋52 | 7°26 | 0♌28 | 11°20 | 14°22 | 12°13 | 11°16 | 0°14 | 27°43 | 2°31 | 3°26 | 4°21 | 7°40 | W 8 | |
| T 9 | 5 13 36 | 17°19'22 | 21°18 | 8° 3 | 1°44 | 11°44 | 14°D22 | 12°12 | 11°18 | 0°12 | 27°43 | 2°28 | 3°23 | 4°28 | 7°39 | T 9 | |
| F 10 | 5 17 33 | 18°20'08 | 3♌58 | 8°34 | 2°59 | 12° 8 | 14°22 | 12°11 | 11°20 | 0°10 | 27°43 | 2°D28 | 3°20 | 4°34 | 7°39 | F 10 | |
| S 11 | 5 21 29 | 19°20'56 | 16°59 | 8°57 | 4°14 | 12°33 | 14°23 | 12°11 | 11°22 | 0° 9 | 27°D43 | 2°R28 | 3°17 | 4°41 | 7°38 | S 11 | |
| S 12 | 5 25 26 | 20°21'44 | 0♃22 | 9°12 | 5°29 | 12°58 | 14°23 | 12°11 | 11°24 | 0° 7 | 27°43 | 2°28 | 3°13 | 4°48 | 7°38 | S 12 | |
| M13 | 5 29 22 | 21°22'33 | 14°12 | 9°R17 | 6°44 | 13°23 | 14°24 | 12°10 | 11°26 | 0° 5 | 27°43 | 2°26 | 3°10 | 4°55 | 7°37 | M13 | |
| T 14 | 5 33 19 | 22°23'23 | 28°29 | 9°12 | 7°59 | 13°49 | 14°25 | 12°10 | 11°28 | 0° 4 | 27°43 | 2°21 | 3° 7 | 5° 1 | 7°37 | T 14 | |
| W15 | 5 37 15 | 23°24'14 | 13♌12 | 8°56 | 9°14 | 14°15 | 14°26 | 12°D10 | 11°30 | 0° 2 | 27°43 | 2°14 | 3° 4 | 5° 8 | 7°37 | W15 | |
| T 16 | 5 41 12 | 24°25'06 | 28°16 | 8°29 | 10°29 | 14°41 | 14°27 | 12°10 | 11°31 | 0° 0 | 27°43 | 2° 5 | 3° 1 | 5°15 | 7°37 | T 16 | |
| F 17 | 5 45 8 | 25°25'59 | 13♂32 | 7°50 | 11°45 | 15° 8 | 14°29 | 12°10 | 11°33 | 29°II59 | 27°44 | 1°55 | 2°58 | 5°21 | 7°37 | F 17 | |
| S 18 | 5 49 5 | 26°26'52 | 28°48 | 7° 1 | 13° 0 | 15°35 | 14°31 | 12°11 | 11°35 | 29°57 | 27°44 | 1°45 | 2°54 | 5°28 | 7°D37 | S 18 | |
| S 19 | 5 53 2 | 27°27'47 | 13♎55 | 6° 1 | 14°15 | 16° 2 | 14°33 | 12°11 | 11°36 | 29°55 | 27°44 | 1°36 | 2°51 | 5°35 | 7°37 | S 19 | |
| M20 | 5 56 58 | 28°28'42 | 28°41 | 4°52 | 15°30 | 16°29 | 14°35 | 12°12 | 11°38 | 29°53 | 27°44 | 1°29 | 2°48 | 5°42 | 7°37 | M20 | |
| T 21 | 6 0 55 | 29°29'38 | 13♌ 1 | 3°36 | 16°45 | 16°57 | 14°37 | 12°12 | 11°39 | 29°52 | 27°44 | 1°26 | 2°45 | 5°48 | 7°37 | T 21 | |
| W22 | 6 4 51 | 0♌30'36 | 26°51 | 2°15 | 18° 0 | 17°25 | 14°40 | 12°13 | 11°41 | 29°50 | 27°45 | 1°D24 | 2°42 | 5°55 | 7°37 | W22 | |
| T 23 | 6 8 48 | 1°31'34 | 10♎13 | 0°52 | 19°15 | 17°54 | 14°43 | 12°14 | 11°42 | 29°48 | 27°45 | 1°24 | 2°39 | 6° 2 | 7°37 | T 23 | |
| F 24 | 6 12 44 | 2°32'34 | 23° 7 | 29♌30 | 20°30 | 18°22 | 14°46 | 12°15 | 11°43 | 29°47 | 27°45 | 1°25 | 2°35 | 6° 8 | 7°38 | F 24 | |
| S 25 | 6 16 41 | 3°33'34 | 5♎40 | 28°11 | 21°45 | 18°51 | 14°49 | 12°16 | 11°45 | 29°45 | 27°45 | 1°R25 | 2°32 | 6°15 | 7°38 | S 25 | |
| S 26 | 6 20 37 | 4°34'36 | 17°55 | 26°58 | 23° 0 | 19°20 | 14°52 | 12°17 | 11°46 | 29°43 | 27°46 | 1°24 | 2°29 | 6°22 | 7°38 | S 26 | |
| M27 | 6 24 34 | 5°35'38 | 29°58 | 25°53 | 24°15 | 19°49 | 14°56 | 12°18 | 11°47 | 29°42 | 27°46 | 1°21 | 2°26 | 6°29 | 7°39 | M27 | |
| T 28 | 6 28 31 | 6°36'41 | 11♌53 | 24°57 | 25°31 | 20°19 | 15° 0 | 12°20 | 11°48 | 29°40 | 27°47 | 1°15 | 2°23 | 6°35 | 7°39 | T 28 | |
| W29 | 6 32 27 | 7°37'45 | 23°45 | 24°12 | 26°46 | 20°49 | 15° 4 | 12°21 | 11°49 | 29°38 | 27°47 | 1° 7 | 2°19 | 6°42 | 7°40 | W29 | |
| T 30 | 6 36 24 | 8°38'50 | 5♌36 | 23°37 | 28° 1 | 21°19 | 15° 8 | 12°23 | 11°50 | 29°37 | 27°47 | 0°58 | 2°16 | 6°49 | 7°40 | T 30 | |
| F 31 | 6 40 20 | 9♌39'55 | 17♌29 | 23♌14 | 29♌16 | 21°Y49 | 15°Y12 | 12°Y24 | 11°51 | 29°II35 | 27°K48 | 0♎47 | 2♎13 | 6♌56 | 7°Y41 | F 31 | |

Delta T = 17m30s

ASTRODIENST EPHEMERIS for the year 2557
geocentric

JANUARY 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|---------|------------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------|----------------------|--------------------|---------------------|-------------------|--------------------|-------------------|------|-----|
| S 1 | 6 44 17 | 10 [♌] 341'02 | 29 [♊] 26 | 23 [♈] R 1 | 0 [♋] 31 | 22 [♋] 20 | 15 [♈] 17 | 12 [♋] 26 | 11 [♋] 52 | 29 [♈] R33 | 27 [♋] 48 | 0 [♈] R37 | 2 [♋] 10 | 7 [♋] 2 | 7 [♋] 42 | S 1 | |
| S 2 | 6 48 13 | 11 [♌] 42'08 | 11 [♌] 30 | 22 [♈] D58 | 1 [♋] 46 | 22 [♋] 50 | 15 [♈] 21 | 12 [♋] 28 | 11 [♋] 53 | 29 [♈] II32 | 27 [♋] 49 | 0 [♋] 27 | 2 [♋] 7 | 7 [♋] 9 | 7 [♋] 43 | S 2 | |
| M 3 | 6 52 10 | 12 [♌] 43'15 | 23 [♊] 40 | 23 [♈] 5 | 3 [♋] 1 | 23 [♋] 21 | 15 [♈] 26 | 12 [♋] 30 | 11 [♋] 53 | 29 [♈] 30 | 27 [♋] 50 | 0 [♋] 20 | 2 [♋] 4 | 7 [♋] 16 | 7 [♋] 43 | M 3 | |
| T 4 | 6 56 6 | 13 [♌] 44'22 | 5 [♌] 57 | 23 [♈] 20 | 4 [♋] 16 | 23 [♋] 52 | 15 [♈] 31 | 12 [♋] 32 | 11 [♋] 54 | 29 [♈] 28 | 27 [♋] 50 | 0 [♋] 14 | 2 [♋] 0 | 7 [♋] 22 | 7 [♋] 44 | T 4 | |
| W 5 | 7 0 3 | 14 [♌] 45'30 | 18 [♊] 24 | 23 [♈] 43 | 5 [♋] 31 | 24 [♋] 23 | 15 [♈] 37 | 12 [♋] 34 | 11 [♋] 55 | 29 [♈] 27 | 27 [♋] 51 | 0 [♋] 11 | 1 [♋] 57 | 7 [♋] 29 | 7 [♋] 45 | W 5 | |
| T 6 | 7 4 0 | 15 [♌] 46'37 | 1 [♋] 2 | 24 [♈] 14 | 6 [♋] 46 | 24 [♋] 55 | 15 [♈] 42 | 12 [♋] 37 | 11 [♋] 55 | 29 [♈] 25 | 27 [♋] 51 | 0 [♋] D11 | 1 [♋] 54 | 7 [♋] 36 | 7 [♋] 46 | T 6 | |
| F 7 | 7 7 56 | 16 [♌] 47'45 | 13 [♊] 53 | 24 [♈] 51 | 8 [♋] 1 | 25 [♋] 26 | 15 [♈] 48 | 12 [♋] 39 | 11 [♋] 56 | 29 [♈] 23 | 27 [♋] 52 | 0 [♋] 11 | 1 [♋] 51 | 7 [♋] 43 | 7 [♋] 47 | F 7 | |
| S 8 | 7 11 53 | 17 [♌] 48'52 | 26 [♊] 58 | 25 [♈] 33 | 9 [♋] 16 | 25 [♋] 58 | 15 [♈] 54 | 12 [♋] 42 | 11 [♋] 56 | 29 [♈] 22 | 27 [♋] 53 | 0 [♋] 13 | 1 [♋] 48 | 7 [♋] 49 | 7 [♋] 48 | S 8 | |
| S 9 | 7 15 49 | 18 [♌] 50'00 | 10 [♋] 21 | 26 [♈] 21 | 10 [♋] 31 | 26 [♋] 30 | 16 [♈] 0 | 12 [♋] 44 | 11 [♋] 57 | 29 [♈] 20 | 27 [♋] 53 | 0 [♋] 14 | 1 [♋] 45 | 7 [♋] 56 | 7 [♋] 50 | S 9 | |
| M10 | 7 19 46 | 19 [♌] 51'07 | 24 [♊] 4 | 27 [♈] 13 | 11 [♋] 46 | 27 [♋] 2 | 16 [♈] 6 | 12 [♋] 47 | 11 [♋] 57 | 29 [♈] 19 | 27 [♋] 54 | 0 [♋] R14 | 1 [♋] 41 | 8 [♋] 3 | 7 [♋] 51 | M10 | |
| T 11 | 7 23 42 | 20 [♌] 52'14 | 8 [♋] 8 | 28 [♈] 10 | 13 [♋] 1 | 27 [♋] 35 | 16 [♈] 12 | 12 [♋] 50 | 11 [♋] 57 | 29 [♈] 17 | 27 [♋] 55 | 0 [♋] 13 | 1 [♋] 38 | 8 [♋] 10 | 7 [♋] 52 | T 11 | |
| W12 | 7 27 39 | 21 [♌] 53'21 | 22 [♊] 32 | 29 [♈] 9 | 14 [♋] 15 | 28 [♋] 7 | 16 [♈] 19 | 12 [♋] 53 | 11 [♋] 58 | 29 [♈] 15 | 27 [♋] 55 | 0 [♋] 10 | 1 [♋] 35 | 8 [♋] 16 | 7 [♋] 53 | W12 | |
| T 13 | 7 31 35 | 22 [♌] 54'28 | 7 [♋] II12 | 0 [♋] 12 | 15 [♋] 30 | 28 [♋] 40 | 16 [♈] 25 | 12 [♋] 56 | 11 [♋] 58 | 29 [♈] 14 | 27 [♋] 56 | 0 [♋] 5 | 1 [♋] 32 | 8 [♋] 23 | 7 [♋] 55 | T 13 | |
| F 14 | 7 35 32 | 23 [♌] 55'34 | 22 [♊] 4 | 1 [♋] 18 | 16 [♋] 45 | 29 [♋] 13 | 16 [♈] 32 | 12 [♋] 59 | 11 [♋] 58 | 29 [♈] 12 | 27 [♋] 57 | 29 [♋] Ω59 | 1 [♋] 29 | 8 [♋] 30 | 7 [♋] 56 | F 14 | |
| S 15 | 7 39 29 | 24 [♌] 56'40 | 7 [♋] 0 | 2 [♋] 27 | 18 [♋] 0 | 29 [♋] 45 | 16 [♈] 39 | 13 [♋] 2 | 11 [♋] 58 | 29 [♈] 11 | 27 [♋] 58 | 29 [♋] 54 | 1 [♋] 25 | 8 [♋] 36 | 7 [♋] 58 | S 15 | |
| S 16 | 7 43 25 | 25 [♌] 57'46 | 21 [♊] 51 | 3 [♋] 38 | 19 [♋] 15 | 0 [♋] 18 | 16 [♈] 47 | 13 [♋] 5 | 11 [♋] R58 | 29 [♈] 9 | 27 [♋] 59 | 29 [♋] 49 | 1 [♋] 22 | 8 [♋] 43 | 7 [♋] 59 | S 16 | |
| M17 | 7 47 22 | 26 [♌] 58'52 | 6 [♋] Ω29 | 4 [♋] 50 | 20 [♋] 30 | 0 [♋] 52 | 16 [♈] 54 | 13 [♋] 9 | 11 [♋] 58 | 29 [♈] 8 | 28 [♋] 0 | 29 [♋] 46 | 1 [♋] 19 | 8 [♋] 50 | 8 [♋] 1 | M17 | |
| T 18 | 7 51 18 | 27 [♌] 59'58 | 20 [♊] 47 | 6 [♋] 5 | 21 [♋] 44 | 1 [♋] 25 | 17 [♈] 1 | 13 [♋] 12 | 11 [♋] 58 | 29 [♈] 7 | 28 [♋] 0 | 29 [♋] 44 | 1 [♋] 16 | 8 [♋] 57 | 8 [♋] 2 | T 18 | |
| W19 | 7 55 15 | 29 [♌] 1'04 | 4 [♋] 40 | 7 [♋] 21 | 22 [♋] 59 | 1 [♋] 58 | 17 [♈] 9 | 13 [♋] 16 | 11 [♋] 58 | 29 [♈] 5 | 28 [♋] 1 | 29 [♋] D44 | 1 [♋] 13 | 9 [♋] 3 | 8 [♋] 4 | W19 | |
| T 20 | 7 59 11 | 0 [♋] 2'09 | 18 [♊] 8 | 8 [♋] 39 | 24 [♋] 14 | 2 [♋] 32 | 17 [♈] 17 | 13 [♋] 19 | 11 [♋] 58 | 29 [♈] 4 | 28 [♋] 2 | 29 [♋] 45 | 1 [♋] 10 | 9 [♋] 10 | 8 [♋] 6 | T 20 | |
| F 21 | 8 3 8 | 1 [♋] 3'15 | 1 [♋] 10 | 9 [♋] 58 | 25 [♋] 29 | 3 [♋] 5 | 17 [♈] 25 | 13 [♋] 23 | 11 [♋] 57 | 29 [♈] 2 | 28 [♋] 3 | 29 [♋] 46 | 1 [♋] 6 | 9 [♋] 17 | 8 [♋] 7 | F 21 | |
| S 22 | 8 7 5 | 2 [♋] 4'20 | 13 [♊] 49 | 11 [♋] 18 | 26 [♋] 43 | 3 [♋] 39 | 17 [♈] 33 | 13 [♋] 27 | 11 [♋] 57 | 29 [♈] 1 | 28 [♋] 4 | 29 [♋] 48 | 1 [♋] 3 | 9 [♋] 23 | 8 [♋] 9 | S 22 | |
| S 23 | 8 11 1 | 3 [♋] 5'25 | 26 [♊] 9 | 12 [♋] 39 | 27 [♋] 58 | 4 [♋] 13 | 17 [♈] 41 | 13 [♋] 31 | 11 [♋] 57 | 29 [♈] 0 | 28 [♋] 5 | 29 [♋] 49 | 1 [♋] 0 | 9 [♋] 30 | 8 [♋] 11 | S 23 | |
| M24 | 8 14 58 | 4 [♋] 6'31 | 8 [♋] 15 | 14 [♋] 2 | 29 [♋] 13 | 4 [♋] 47 | 17 [♈] 50 | 13 [♋] 35 | 11 [♋] 56 | 28 [♈] 58 | 28 [♋] 6 | 29 [♋] R49 | 0 [♋] 57 | 9 [♋] 37 | 8 [♋] 13 | M24 | |
| T 25 | 8 18 54 | 5 [♋] 7'36 | 20 [♊] 12 | 15 [♋] 25 | 0 [♋] 27 | 5 [♋] 21 | 17 [♈] 58 | 13 [♋] 39 | 11 [♋] 56 | 28 [♈] 57 | 28 [♋] 7 | 29 [♋] 48 | 0 [♋] 54 | 9 [♋] 44 | 8 [♋] 15 | T 25 | |
| W26 | 8 22 51 | 6 [♋] 8'41 | 2 [♋] 4 | 16 [♋] 50 | 1 [♋] 42 | 5 [♋] 55 | 18 [♈] 7 | 13 [♋] 43 | 11 [♋] 55 | 28 [♈] 56 | 28 [♋] 8 | 29 [♋] 46 | 0 [♋] 51 | 9 [♋] 50 | 8 [♋] 17 | W26 | |
| T 27 | 8 26 47 | 7 [♋] 9'45 | 13 [♊] 56 | 18 [♋] 15 | 2 [♋] 56 | 6 [♋] 30 | 18 [♈] 16 | 13 [♋] 48 | 11 [♋] 55 | 28 [♈] 54 | 28 [♋] 9 | 29 [♋] 43 | 0 [♋] 47 | 9 [♋] 57 | 8 [♋] 19 | T 27 | |
| F 28 | 8 30 44 | 8 [♋] 10'50 | 25 [♊] 51 | 19 [♋] 41 | 4 [♋] 11 | 7 [♋] 4 | 18 [♈] 25 | 13 [♋] 52 | 11 [♋] 54 | 28 [♈] 53 | 28 [♋] 10 | 29 [♋] 39 | 0 [♋] 44 | 10 [♋] 4 | 8 [♋] 21 | F 28 | |
| S 29 | 8 34 40 | 9 [♋] 11'54 | 7 [♋] 52 | 21 [♋] 8 | 5 [♋] 26 | 7 [♋] 39 | 18 [♈] 34 | 13 [♋] 56 | 11 [♋] 53 | 28 [♈] 52 | 28 [♋] 11 | 29 [♋] 36 | 0 [♋] 41 | 10 [♋] 11 | 8 [♋] 23 | S 29 | |
| S 30 | 8 38 37 | 10 [♋] 12'57 | 20 [♊] 3 | 22 [♋] 35 | 6 [♋] 40 | 8 [♋] 13 | 18 [♈] 43 | 14 [♋] 1 | 11 [♋] 52 | 28 [♈] 51 | 28 [♋] 12 | 29 [♋] 32 | 0 [♋] 38 | 10 [♋] 17 | 8 [♋] 25 | S 30 | |
| M31 | 8 42 34 | 11 [♋] 14'00 | 2 [♋] 25 | 24 [♋] 3 | 7 [♋] 55 | 8 [♋] 48 | 18 [♈] 52 | 14 [♋] 6 | 11 [♋] 52 | 28 [♈] 50 | 28 [♋] 14 | 29 [♋] Ω30 | 0 [♋] 35 | 10 [♋] 24 | 8 [♋] 28 | M31 | |

Delta T = 17m30s

FEBRUARY 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|---------|-----------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|----------------------|--------------------|---------------------|---------------------|--------------------|-------------------|------|-----|
| T 1 | 8 46 30 | 12 [♌] 15'03 | 14 [♌] 59 | 25 [♋] 32 | 9 [♋] 9 | 9 [♋] 23 | 19 [♈] 2 | 14 [♋] 10 | 11 [♋] R51 | 28 [♈] R48 | 28 [♋] 15 | 29 [♋] R28 | 0 [♋] 31 | 10 [♋] 31 | 8 [♋] 30 | T 1 | |
| W 2 | 8 50 27 | 13 [♌] 16'05 | 27 [♊] 45 | 27 [♋] 2 | 10 [♋] 23 | 9 [♋] 58 | 19 [♈] 11 | 14 [♋] 15 | 11 [♋] 50 | 28 [♈] II47 | 28 [♋] 16 | 29 [♋] D28 | 0 [♋] 28 | 10 [♋] 37 | 8 [♋] 32 | W 2 | |
| T 3 | 8 54 23 | 14 [♌] 17'05 | 10 [♋] 44 | 28 [♋] 32 | 11 [♋] 38 | 10 [♋] 33 | 19 [♈] 21 | 14 [♋] 20 | 11 [♋] 49 | 28 [♈] 46 | 28 [♋] 17 | 29 [♋] Ω28 | 0 [♋] 25 | 10 [♋] 44 | 8 [♋] 35 | T 3 | |
| F 4 | 8 58 20 | 15 [♌] 18'05 | 23 [♊] 55 | 0 [♋] 33 | 12 [♋] 52 | 11 [♋] 8 | 19 [♈] 31 | 14 [♋] 25 | 11 [♋] 48 | 28 [♈] 45 | 28 [♋] 18 | 29 [♋] 29 | 0 [♋] 22 | 10 [♋] 51 | 8 [♋] 37 | F 4 | |
| S 5 | 9 2 16 | 16 [♌] 19'04 | 7 [♋] 20 | 1 [♋] 35 | 14 [♋] 7 | 11 [♋] 43 | 19 [♈] 41 | 14 [♋] 30 | 11 [♋] 47 | 28 [♈] 44 | 28 [♋] 19 | 29 [♋] 30 | 0 [♋] 19 | 10 [♋] 58 | 8 [♋] 39 | S 5 | |
| S 6 | 9 6 13 | 17 [♌] 20'02 | 20 [♊] 56 | 3 [♋] 7 | 15 [♋] 21 | 12 [♋] 18 | 19 [♈] 51 | 14 [♋] 35 | 11 [♋] 46 | 28 [♈] 43 | 28 [♋] 21 | 29 [♋] 31 | 0 [♋] 16 | 11 [♋] 4 | 8 [♋] 42 | S 6 | |
| M 7 | 9 10 9 | 18 [♌] 20'58 | 4 [♋] 46 | 4 [♋] 41 | 16 [♋] 35 | 12 [♋] 53 | 20 [♈] 1 | 14 [♋] 40 | 11 [♋] 44 | 28 [♈] 42 | 28 [♋] 22 | 29 [♋] 32 | 0 [♋] 12 | 11 [♋] 11 | 8 [♋] 44 | M 7 | |
| T 8 | 9 14 6 | 19 [♌] 21'54 | 18 [♊] 46 | 6 [♋] 14 | 17 [♋] 49 | 13 [♋] 29 | 20 [♈] 12 | 14 [♋] 45 | 11 [♋] 43 | 28 [♈] 41 | 28 [♋] 23 | 29 [♋] R32 | 0 [♋] 9 | 11 [♋] 18 | 8 [♋] 47 | T 8 | |
| W 9 | 9 18 2 | 20 [♌] 22'48 | 2 [♋] II58 | 7 [♋] 49 | 19 [♋] 3 | 14 [♋] 4 | 20 [♈] 22 | 14 [♋] 51 | 11 [♋] 42 | 28 [♈] 40 | 28 [♋] 24 | 29 [♋] 32 | 0 [♋] 6 | 11 [♋] 24 | 8 [♋] 50 | W 9 | |
| T 10 | 9 21 59 | 21 [♌] 23'41 | 17 [♊] 17 | 9 [♋] 24 | 20 [♋] 18 | 14 [♋] 40 | 20 [♈] 33 | 14 [♋] 56 | 11 [♋] 41 | 28 [♈] 39 | 28 [♋] 26 | 29 [♋] 31 | 0 [♋] 3 | 11 [♋] 31 | 8 [♋] 52 | T 10 | |
| F 11 | 9 25 56 | 22 [♌] 24'33 | 1 [♋] 42 | 10 [♋] 59 | 21 [♋] 32 | 15 [♋] 15 | 20 [♈] 44 | 15 [♋] 2 | 11 [♋] 39 | 28 [♈] 38 | 28 [♋] 27 | 29 [♋] 31 | 29 [♋] Ω59 | 11 [♋] 38 | 8 [♋] 55 | F 11 | |
| S 12 | 9 29 52 | 23 [♌] 25'23 | 16 [♊] 9 | 12 [♋] 36 | 22 [♋] 46 | 15 [♋] 51 | 20 [♈] 54 | 15 [♋] 7 | 11 [♋] 38 | 28 [♈] 38 | 28 [♋] 28 | 29 [♋] 30 | 29 [♋] 57 | 11 [♋] 45 | 8 [♋] 58 | S 12 | |
| S 13 | 9 33 49 | 24 [♌] 26'13 | 0 [♋] Ω31 | 14 [♋] 13 | 24 [♋] 0 | 16 [♋] 27 | 21 [♈] 5 | 15 [♋] 13 | 11 [♋] 36 | 28 [♈] 37 | 28< | | | | | | |

ASTRODIENST EPHEMERIS for the year 2557
geocentric

MARCH 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| T 1 | 10 36 54 | 10♋36'43 | 23♌24 | 11♊57 | 13♏37 | 26♉5 | 24♏13 | 16♏50 | 11♑R 7 | 28♑R28 | 28♋52 | 29♑R32 | 29♌2 | 13♊39 | 9♏48 | T 1 | | | | | | | | |
| W 2 | 10 40 50 | 11°37'12 | 6♋30 | 13°48 | 14°50 | 26°41 | 24°26 | 16°57 | 11♌5 | 28♏28 | 28°54 | 29♌32 | 28°59 | 13°46 | 9°51 | W 2 | | | | | | | | |
| T 3 | 10 44 47 | 12°37'40 | 19°52 | 15°40 | 16°3 | 27°18 | 24°38 | 17°3 | 11°3 | 28°28 | 28°55 | 29°32 | 28°56 | 13°52 | 9°55 | T 3 | | | | | | | | |
| F 4 | 10 48 43 | 13°38'05 | 3♏31 | 17°32 | 17°16 | 27°54 | 24°51 | 17°10 | 11°1 | 28°27 | 28°57 | 29°30 | 28°53 | 13°59 | 9°58 | F 4 | | | | | | | | |
| S 5 | 10 52 40 | 14°38'29 | 17°23 | 19°26 | 18°29 | 28°31 | 25°4 | 17°17 | 10°58 | 28°27 | 28°58 | 29°28 | 28°50 | 14°6 | 10°1 | S 5 | | | | | | | | |
| S 6 | 10 56 36 | 15°38'52 | 1♌25 | 21°19 | 19°41 | 29°8 | 25°16 | 17°23 | 10°56 | 28°27 | 29°0 | 29°26 | 28°47 | 14°12 | 10°4 | S 6 | | | | | | | | |
| M 7 | 11 0 33 | 16°39'12 | 15°34 | 23°13 | 20°54 | 29°44 | 25°29 | 17°30 | 10°54 | 28°27 | 29°2 | 29°24 | 28°43 | 14°19 | 10°8 | M 7 | | | | | | | | |
| T 8 | 11 4 29 | 17°39'31 | 29°47 | 25°7 | 22°7 | 0♏21 | 25°42 | 17°37 | 10°52 | 28°27 | 29°3 | 29°22 | 28°40 | 14°26 | 10°11 | T 8 | | | | | | | | |
| W 9 | 11 8 26 | 18°39'47 | 14♏0 | 27°1 | 23°19 | 0°58 | 25°55 | 17°44 | 10°49 | 28°D27 | 29°5 | 29°D22 | 28°37 | 14°33 | 10°14 | W 9 | | | | | | | | |
| T 10 | 11 12 23 | 19°40'02 | 28°10 | 28°55 | 24°32 | 1°35 | 26°8 | 17°51 | 10°47 | 28°27 | 29°6 | 29°22 | 28°34 | 14°39 | 10°18 | T 10 | | | | | | | | |
| F 11 | 11 16 19 | 20°40'15 | 12♉17 | 0♏49 | 25°44 | 2°11 | 26°21 | 17°58 | 10°45 | 28°27 | 29°8 | 29°23 | 28°31 | 14°46 | 10°21 | F 11 | | | | | | | | |
| S 12 | 11 20 16 | 21°40'25 | 26°18 | 2°42 | 26°57 | 2°48 | 26°35 | 18°5 | 10°42 | 28°27 | 29°9 | 29°24 | 28°28 | 14°53 | 10°25 | S 12 | | | | | | | | |
| S 13 | 11 24 12 | 22°40'34 | 10♌11 | 4°34 | 28°9 | 3°25 | 26°48 | 18°12 | 10°40 | 28°27 | 29°11 | 29°26 | 28°24 | 14°59 | 10°28 | S 13 | | | | | | | | |
| M14 | 11 28 9 | 23°40'40 | 23°55 | 6°24 | 29°21 | 4°2 | 27°1 | 18°19 | 10°37 | 28°27 | 29°12 | 29°R26 | 28°21 | 15°6 | 10°32 | M14 | | | | | | | | |
| T 15 | 11 32 5 | 24°40'44 | 7♏28 | 8°13 | 0♏34 | 4°39 | 27°14 | 18°26 | 10°35 | 28°28 | 29°14 | 29°26 | 28°18 | 15°13 | 10°35 | T 15 | | | | | | | | |
| W16 | 11 36 2 | 25°40'47 | 20°49 | 10°0 | 1°46 | 5°16 | 27°28 | 18°33 | 10°32 | 28°28 | 29°15 | 29°25 | 28°15 | 15°20 | 10°38 | W16 | | | | | | | | |
| T 17 | 11 39 58 | 26°40'47 | 3♌55 | 11°44 | 2°58 | 5°53 | 27°41 | 18°40 | 10°30 | 28°28 | 29°17 | 29°22 | 28°12 | 15°26 | 10°42 | T 17 | | | | | | | | |
| F 18 | 11 43 55 | 27°40'46 | 16°47 | 13°25 | 4°9 | 6°30 | 27°55 | 18°47 | 10°27 | 28°28 | 29°19 | 29°18 | 28°8 | 15°33 | 10°45 | F 18 | | | | | | | | |
| S 19 | 11 47 51 | 28°40'43 | 29°23 | 15°2 | 5°21 | 7°7 | 28°8 | 18°54 | 10°25 | 28°29 | 29°20 | 29°13 | 28°5 | 15°40 | 10°49 | S 19 | | | | | | | | |
| S 20 | 11 51 48 | 29°40'39 | 11♏45 | 16°35 | 6°33 | 7°44 | 28°22 | 19°2 | 10°22 | 28°29 | 29°22 | 29°8 | 28°2 | 15°46 | 10°52 | S 20 | | | | | | | | |
| M21 | 11 55 45 | 0♏40'32 | 23°55 | 18°3 | 7°44 | 8°21 | 28°36 | 19°9 | 10°20 | 28°29 | 29°23 | 29°3 | 27°59 | 15°53 | 10°56 | M21 | | | | | | | | |
| T 22 | 11 59 41 | 1°40'24 | 5♏55 | 19°26 | 8°56 | 8°58 | 28°49 | 19°16 | 10°17 | 28°30 | 29°25 | 28°59 | 27°56 | 16°0 | 10°59 | T 22 | | | | | | | | |
| W23 | 12 3 38 | 2°40'15 | 17°48 | 20°43 | 10°7 | 9°35 | 29°3 | 19°23 | 10°14 | 28°30 | 29°26 | 28°56 | 27°53 | 16°7 | 11°3 | W23 | | | | | | | | |
| T 24 | 12 7 34 | 3°40'04 | 29°40 | 21°54 | 11°19 | 10°12 | 29°17 | 19°31 | 10°12 | 28°31 | 29°28 | 28°D55 | 27°49 | 16°13 | 11°7 | T 24 | | | | | | | | |
| F 25 | 12 11 31 | 4°39'51 | 11♉35 | 22°59 | 12°30 | 10°49 | 29°31 | 19°38 | 10°9 | 28°31 | 29°30 | 28°55 | 27°46 | 16°20 | 11°10 | F 25 | | | | | | | | |
| S 26 | 12 15 27 | 5°39'36 | 23°38 | 23°56 | 13°41 | 11°26 | 29°44 | 19°45 | 10°7 | 28°32 | 29°31 | 28°56 | 27°43 | 16°27 | 11°14 | S 26 | | | | | | | | |
| S 27 | 12 19 24 | 6°39'20 | 5♌54 | 24°46 | 14°52 | 12°3 | 29°58 | 19°53 | 10°4 | 28°32 | 29°33 | 28°58 | 27°40 | 16°33 | 11°17 | S 27 | | | | | | | | |
| M28 | 12 23 20 | 7°39'02 | 18°27 | 25°29 | 16°3 | 12°40 | 0♏12 | 20°0 | 10°1 | 28°33 | 29°34 | 28°59 | 27°37 | 16°40 | 11°21 | M28 | | | | | | | | |
| T 29 | 12 27 17 | 8°38'42 | 1♊21 | 26°4 | 17°14 | 13°17 | 0°26 | 20°7 | 9°59 | 28°34 | 29°36 | 28°R59 | 27°33 | 16°47 | 11°24 | T 29 | | | | | | | | |
| W30 | 12 31 14 | 9°38'20 | 14°38 | 26°30 | 18°25 | 13°55 | 0°40 | 20°15 | 9°56 | 28°34 | 29°37 | 28°58 | 27°30 | 16°54 | 11°28 | W30 | | | | | | | | |
| T 31 | 12 35 10 | 10♏37'57 | 28♋19 | 26♏49 | 19♏35 | 14♏32 | 0♏54 | 20♏22 | 9♌54 | 28♏35 | 29♋39 | 28♌55 | 27♌27 | 17♏0 | 11♏31 | T 31 | | | | | | | | |

Delta T = 17m31s

APRIL 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|------|-------|-------|-------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| F 1 | 12 39 7 | 11♏37'31 | 12♏21 | 27♏0 | 20♏46 | 15♏9 | 1♌8 | 20♏30 | 9°R51 | 28♏36 | 29♋40 | 28°R50 | 27♌24 | 17♏7 | 11♏35 | F 1 | | | | | | | | |
| S 2 | 12 43 3 | 12°37'04 | 26°41 | 27°R 3 | 21°56 | 15°46 | 1°23 | 20°37 | 9♌48 | 28°37 | 29°42 | 28♌44 | 27°21 | 17°14 | 11°39 | S 2 | | | | | | | | |
| S 3 | 12 47 0 | 13°36'34 | 11♌13 | 26°58 | 23°6 | 16°23 | 1°37 | 20°45 | 9°46 | 28°37 | 29°43 | 28°37 | 27°18 | 17°20 | 11°42 | S 3 | | | | | | | | |
| M 4 | 12 50 56 | 14°36'03 | 25°50 | 26°45 | 24°17 | 17°1 | 1°51 | 20°52 | 9°43 | 28°38 | 29°45 | 28°30 | 27°14 | 17°27 | 11°46 | M 4 | | | | | | | | |
| T 5 | 12 54 53 | 15°35'29 | 10♏25 | 26°26 | 25°27 | 17°38 | 2°5 | 21°0 | 9°41 | 28°39 | 29°46 | 28°24 | 27°11 | 17°34 | 11°49 | T 5 | | | | | | | | |
| W 6 | 12 58 49 | 16°34'53 | 24°52 | 26°0 | 26°36 | 18°15 | 2°19 | 21°7 | 9°38 | 28°40 | 29°48 | 28°20 | 27°8 | 17°41 | 11°53 | W 6 | | | | | | | | |
| F 7 | 13 2 46 | 17°34'15 | 9♉8 | 25°28 | 27°46 | 18°52 | 2°34 | 21°14 | 9°35 | 28°41 | 29°49 | 28°18 | 27°5 | 17°47 | 11°56 | F 7 | | | | | | | | |
| T 8 | 13 6 43 | 18°33'34 | 23°10 | 24°52 | 28°56 | 19°30 | 2°48 | 21°22 | 9°33 | 28°42 | 29°51 | 28°D17 | 27°2 | 17°54 | 12°0 | T 8 | | | | | | | | |
| S 9 | 13 10 39 | 19°32'51 | 6♌57 | 24°11 | 0♏11 | 20°7 | 3°2 | 21°29 | 9°30 | 28°43 | 29°52 | 28°18 | 26°59 | 18°1 | 12°3 | S 9 | | | | | | | | |
| S 10 | 13 14 36 | 20°32'06 | 20°31 | 23°26 | 1°15 | 20°44 | 3°16 | 21°37 | 9°28 | 28°44 | 29°54 | 28°19 | 26°55 | 18°7 | 12°7 | S 10 | | | | | | | | |
| M11 | 13 18 32 | 21°31'18 | 3♏52 | 22°39 | 2°24 | 21°21 | 3°31 | 21°44 | 9°25 | 28°45 | 29°55 | 28°R19 | 26°52 | 18°14 | 12°11 | M11 | | | | | | | | |
| T 12 | 13 22 29 | 22°30'28 | 17°0 | 21°51 | 3°33 | 21°59 | 3°45 | 21°52 | 9°23 | 28°46 | 29°57 | 28°18 | 26°49 | 18°21 | 12°14 | T 12 | | | | | | | | |
| W13 | 13 26 25 | 23°29'36 | 29°57 | 21°2 | 4°42 | 22°36 | 4°0 | 21°59 | 9°20 | 28°47 | 29°58 | 28°14 | 26°46 | 18°28 | 12°18 | W13 | | | | | | | | |
| T 14 | 13 30 22 | 24°28'42 | 12♏44 | 20°13 | 5°51 | 23°13 | 4°14 | 22°7 | 9°18 | 28°49 | 29°59 | 28°7 | 26°43 | 18°34 | 12°21 | T 14 | | | | | | | | |
| F 15 | 13 34 18 | 25°27'46 | 25°19 | 19°26 | 7°0 | 23°50 | 4°28 | 22°14 | 9°15 | 28°50 | 0♏1 | 27°58 | 26°39 | 18°41 | 12°25 | F 15 | | | | | | | | |
| S 16 | 13 38 15 | 26°26'48 | 7♏43 | 18°41 | 8°8 | 24°28 | 4°43 | 22°22 | 9°13 | 28°51 | 0°3 | 27°47 | 26°36 | 18°48 | 12°28 | S 16 | | | | | | | | |
| S 17 | 13 42 11 | 27°25'47 | 19°58 | 18°0 | 9°16 | 25°5 | 4°57 | 22°29 | 9°10 | 28°52 | 0°4 | 27°36 | 26°33 | 18°54 | 12°32 | S 17 | | | | | | | | |
| M18 | 13 46 8 | 28°24'45 | 2♊8 | 17°21 | 10°25 | 25°42 | 5°12 | 22°37 | 9°8 | 28°53 | 0°5 | 27°25 | 26°30 | 19°1 | 12°35 | M18 | | | | | | | | |
| T 19 | 13 50 5 | 29°23'41 | 14°0 | 16°47 | 11°33 | 26°20 | 5°26 | 22°44 | 9°5 | 28°55 | 0°7 | 27°16 | 26°27 | 19°8 | 12°38 | T 19 | | | | | | | | |
| W20 | 13 54 1 | 0♏22'36 | 25°52 | 16°17 | 12°40 | 26°57 | 5°40 | 22°52 | 9°3 | 28°56 | 0°8 | 27°8 | 26°24 | 19°15 | 12°42 | W20 | | | | | | | | |
| T 21 | 13 57 58 | 1°21'28 | 7♉43 | 15°53 | 13°48 | 27°34 | 5°55 | 22°59 | 9°1 | 28°57 | 0°10 | 27°3 | 26°20 | 19°21 | 12°45 | T 21 | | | | | | | | |
| F 22 | 14 1 54 | 2°20'19 | 19°36 | 15°33 | 14°56 | 28°12 | 6°9 | 23°7 | 8°58 | 28°59 | 0°11 | 27°0 | 26°17 | 19°28 | 12°49 | F 22 | | | | | | | | |
| S 23 | 14 5 51 | 3°19'09 | 1♌37 | 15°18 | 16°3 | 28°49 | 6°24 | 23°14 | 8°56 | 29°0 | 0°12 | 26°D59 | 26°14 | 19°35 | 12°52 | S 23 | | | | | | | | |
| S 24 | 14 9 47 | 4°17'56 | 13°50 | 15°9 | 17°10 | 29°26 | 6°38 | 23°22 | 8°54 | 29°2 | 0°14 | 26°59 | 26°11 | 19°41 | 12°55 | S 24 | | | | | | | | |
| M25 | 14 13 44 | 5°16'42 | 26°21 | 15°D 5 | 18°17 | 0♏4 | 6°53 | 23°29 | 8°51 | 29°3 | 0°15 | 26°R59 | 26°8 | 19°48 | 12°59 | M25 | | | | | | | | |
| T 26 | 14 17 40 | 6°15'26 | 9♋14 | 15°6 | 19°24 | 0°41 | 7°7 | 23°36 | 8°49 | 29°5 | 0°16 | 26°59 | 26°5 | 19°55 | 13°2 | T 26 | | | | | | | | |
| W27 | 14 21 37 | 7°14'08 | 22°34 | 15°13 | 20°30 | 1°18 | 7°22 | 23°44 | 8°47 | 29°6 | 0°18 | 26°56 | 26°1 | 20°2 | 13°6 | W27 | | | | | | | | |
| T 28 | 14 25 34 | 8°12'49 | 6♏22 | 15°24 | 21°37 | 1°56 | 7°36 | 23°51 | 8°45 | 29°8 | 0°19 | 26°51 | 25°58 | 20°8 | 13°9 | T 28 | | | | | | | | |
| F 29 | 14 29 30 | 9°11'28 | 20°37 | 15°40 | 22°43 | 2°33 | 7°51 | 23°58 | 8°43 | 29°9 | 0°20 | 26°44 | 25°55 | 20°15 | 13°12 | F 29 | | | | | | | | |
| S 30 | 14 33 27 | 10♏10'05 | 5♉15 | 16♏1 | 23♏49 | 3♉10 | 8♉5 | 24♏6 | 8♌40 | 29♏11 | 0♏21 | 26♌34 | 25♌52 | 20♏22 | 13♏15 | S 30 | | | | | | | | |

Delta T = 17m31s

ASTRODIENST EPHEMERIS for the year 2557
geocentric

MAY 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|-------|-------|-------|------|
| S 1 | 14 37 23 | 11♈ 8°40 | 20♈10 | 16♃26 | 24♂55 | 3♁48 | 8♃20 | 24♃13 | 8♃R38 | 29♂12 | 0♃23 | 26♃R23 | 25♂49 | 20♃28 | 13♃19 | S 1 |
| M 2 | 14 41 20 | 12° 7'13 | 5♂12 | 16°56 | 26° 0 | 4°25 | 8°34 | 24°20 | 8♁36 | 29°14 | 0°24 | 26♂13 | 25°45 | 20°35 | 13°22 | M 2 |
| T 3 | 14 45 16 | 13° 5'45 | 20°11 | 17°30 | 27° 6 | 5° 2 | 8°49 | 24°28 | 8°34 | 29°16 | 0°25 | 26° 3 | 25°42 | 20°42 | 13°25 | T 3 |
| W 4 | 14 49 13 | 14° 4'14 | 4♁59 | 18° 7 | 28°11 | 5°40 | 9° 3 | 24°35 | 8°32 | 29°17 | 0°26 | 25°56 | 25°39 | 20°49 | 13°28 | W 4 |
| T 5 | 14 53 9 | 15° 2'42 | 19°29 | 18°49 | 29°16 | 6°17 | 9°17 | 24°42 | 8°30 | 29°19 | 0°28 | 25°52 | 25°36 | 20°55 | 13°31 | T 5 |
| F 6 | 14 57 6 | 16° 1'07 | 3♂38 | 19°34 | 0♁20 | 6°55 | 9°32 | 24°49 | 8°28 | 29°21 | 0°29 | 25°50 | 25°33 | 21° 2 | 13°35 | F 6 |
| S 7 | 15 1 3 | 16°59'30 | 17°26 | 20°23 | 1°25 | 7°32 | 9°46 | 24°56 | 8°27 | 29°23 | 0°30 | 25°50 | 25°30 | 21° 9 | 13°38 | S 7 |
| S 8 | 15 4 59 | 17°57'51 | 0♃52 | 21°14 | 2°29 | 8° 9 | 10° 1 | 25° 4 | 8°25 | 29°24 | 0°31 | 25°50 | 25°26 | 21°15 | 13°41 | S 8 |
| M 9 | 15 8 56 | 18°56'09 | 14° 1 | 22°10 | 3°33 | 8°47 | 10°15 | 25°11 | 8°23 | 29°26 | 0°32 | 25°49 | 25°23 | 21°22 | 13°44 | M 9 |
| T 10 | 15 12 52 | 19°54'26 | 26°54 | 23° 8 | 4°36 | 9°24 | 10°29 | 25°18 | 8°21 | 29°28 | 0°33 | 25°46 | 25°20 | 21°29 | 13°47 | T 10 |
| W11 | 15 16 49 | 20°52'41 | 9♁34 | 24° 9 | 5°39 | 10° 1 | 10°44 | 25°25 | 8°19 | 29°30 | 0°34 | 25°41 | 25°17 | 21°35 | 13°50 | W11 |
| T 12 | 15 20 45 | 21°50'54 | 22° 3 | 25°13 | 6°42 | 10°39 | 10°58 | 25°32 | 8°18 | 29°32 | 0°35 | 25°32 | 25°14 | 21°42 | 13°53 | T 12 |
| F 13 | 15 24 42 | 22°49'05 | 4♃22 | 26°19 | 7°45 | 11°16 | 11°12 | 25°39 | 8°16 | 29°33 | 0°37 | 25°21 | 25°10 | 21°49 | 13°56 | F 13 |
| S 14 | 15 28 38 | 23°47'14 | 16°34 | 27°29 | 8°47 | 11°54 | 11°27 | 25°46 | 8°15 | 29°35 | 0°38 | 25° 8 | 25° 7 | 21°56 | 13°59 | S 14 |
| S 15 | 15 32 35 | 24°45'21 | 28°39 | 28°41 | 9°49 | 12°31 | 11°41 | 25°53 | 8°13 | 29°37 | 0°39 | 24°54 | 25° 4 | 22° 2 | 14° 2 | S 15 |
| M16 | 15 36 32 | 25°43'27 | 10♃37 | 29°55 | 10°51 | 13° 8 | 11°55 | 25°59 | 8°11 | 29°39 | 0°40 | 24°40 | 25° 1 | 22° 9 | 14° 4 | M16 |
| T 17 | 15 40 28 | 26°41'32 | 22°31 | 1♃12 | 11°53 | 13°46 | 12° 9 | 26° 6 | 8°10 | 29°41 | 0°41 | 24°28 | 24°58 | 22°16 | 14° 7 | T 17 |
| W18 | 15 44 25 | 27°39'35 | 4♁22 | 2°31 | 12°54 | 14°23 | 12°24 | 26°13 | 8° 9 | 29°43 | 0°42 | 24°18 | 24°55 | 22°22 | 14°10 | W18 |
| T 19 | 15 48 21 | 28°37'36 | 16°12 | 3°52 | 13°54 | 15° 0 | 12°38 | 26°20 | 8° 7 | 29°45 | 0°42 | 24°10 | 24°51 | 22°29 | 14°13 | T 19 |
| F 20 | 15 52 18 | 29°35'36 | 28° 5 | 5°16 | 14°55 | 15°38 | 12°52 | 26°27 | 8° 6 | 29°47 | 0°43 | 24° 6 | 24°48 | 22°36 | 14°15 | F 20 |
| S 21 | 15 56 14 | 0♂33'35 | 10♁ 5 | 6°42 | 15°55 | 16°15 | 13° 6 | 26°33 | 8° 5 | 29°49 | 0°44 | 24° 4 | 24°45 | 22°43 | 14°18 | S 21 |
| S 22 | 16 0 11 | 1°31'32 | 22°16 | 8°10 | 16°54 | 16°52 | 13°20 | 26°40 | 8° 3 | 29°51 | 0°45 | 24°D 3 | 24°42 | 22°49 | 14°21 | S 22 |
| M23 | 16 4 7 | 2°29'28 | 4♃45 | 9°40 | 17°53 | 17°30 | 13°34 | 26°46 | 8° 2 | 29°53 | 0°46 | 24°R 3 | 24°39 | 22°56 | 14°23 | M23 |
| T 24 | 16 8 4 | 3°27'23 | 17°34 | 11°13 | 18°52 | 18° 7 | 13°48 | 26°53 | 8° 1 | 29°55 | 0°47 | 24° 3 | 24°36 | 23° 3 | 14°26 | T 24 |
| W25 | 16 12 1 | 4°25'17 | 0♃50 | 12°48 | 19°50 | 18°44 | 14° 2 | 26°59 | 8° 0 | 29°57 | 0°48 | 24° 0 | 24°32 | 23° 9 | 14°29 | W25 |
| T 26 | 16 15 57 | 5°23'09 | 14°35 | 14°25 | 20°48 | 19°22 | 14°16 | 27° 6 | 7°59 | 29°59 | 0°49 | 23°56 | 24°29 | 23°16 | 14°31 | T 26 |
| F 27 | 16 19 54 | 6°21'00 | 28°50 | 16° 4 | 21°46 | 19°59 | 14°30 | 27°12 | 7°58 | 0♁ 1 | 0°49 | 23°49 | 24°26 | 23°23 | 14°34 | F 27 |
| S 28 | 16 23 50 | 7°18'50 | 13♁32 | 17°45 | 22°43 | 20°37 | 14°44 | 27°19 | 7°57 | 0° 3 | 0°50 | 23°40 | 24°23 | 23°29 | 14°36 | S 28 |
| S 29 | 16 27 47 | 8°16'39 | 28°35 | 19°28 | 23°39 | 21°14 | 14°58 | 27°25 | 7°56 | 0° 5 | 0°51 | 23°29 | 24°20 | 23°36 | 14°38 | S 29 |
| M30 | 16 31 43 | 9°14'27 | 13♂49 | 21°14 | 24°35 | 21°51 | 15°12 | 27°31 | 7°55 | 0° 7 | 0°52 | 23°19 | 24°16 | 23°43 | 14°41 | M30 |
| T 31 | 16 35 40 | 10♂12'13 | 29♂ 4 | 23♃ 1 | 25♁31 | 22♁29 | 15♃25 | 27♃38 | 7♁54 | 0♁10 | 0♃52 | 23♂10 | 24♂13 | 23♃50 | 14♃43 | T 31 |

Delta T = 17m31s

JUNE 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|------|--------|-------|-------|-------|------|
| W 1 | 16 39 36 | 11♂ 9°58 | 14♁ 9 | 24♃51 | 26♁26 | 23♁ 6 | 15♃39 | 27♃44 | 7°R54 | 0♁12 | 0♃53 | 23°R 3 | 24♂10 | 23♃56 | 14♃45 | W 1 |
| T 2 | 16 43 33 | 12° 7'42 | 28°55 | 26°43 | 27°20 | 23°44 | 15°53 | 27°50 | 7♁53 | 0°14 | 0°54 | 22♂58 | 24° 7 | 24° 3 | 14°48 | T 2 |
| F 3 | 16 47 30 | 13° 5'24 | 13♂17 | 28°37 | 28°14 | 24°21 | 16° 6 | 27°56 | 7°52 | 0°16 | 0°54 | 22°57 | 24° 4 | 24°10 | 14°50 | F 3 |
| S 4 | 16 51 26 | 14° 3'04 | 27°13 | 0♂33 | 29° 7 | 24°58 | 16°20 | 28° 2 | 7°52 | 0°18 | 0°55 | 22°D56 | 24° 1 | 24°16 | 14°52 | S 4 |
| S 5 | 16 55 23 | 15° 0'43 | 10♃43 | 2°31 | 0♂ 0 | 25°36 | 16°34 | 28° 8 | 7°51 | 0°20 | 0°55 | 22°R57 | 23°57 | 24°23 | 14°54 | S 5 |
| M 6 | 16 59 19 | 15°58'20 | 23°50 | 4°31 | 0°52 | 26°13 | 16°47 | 28°14 | 7°51 | 0°23 | 0°56 | 22°56 | 23°54 | 24°30 | 14°56 | M 6 |
| T 7 | 17 3 16 | 16°55'56 | 6♁38 | 6°33 | 1°44 | 26°50 | 17° 1 | 28°19 | 7°50 | 0°25 | 0°57 | 22°55 | 23°51 | 24°37 | 14°58 | T 7 |
| W 8 | 17 7 12 | 17°53'30 | 19° 9 | 8°37 | 2°34 | 27°28 | 17°14 | 28°25 | 7°50 | 0°27 | 0°57 | 22°51 | 23°48 | 24°43 | 15° 0 | W 8 |
| T 9 | 17 11 9 | 18°51'03 | 1♃28 | 10°42 | 3°24 | 28° 5 | 17°27 | 28°31 | 7°50 | 0°29 | 0°58 | 22°44 | 23°45 | 24°50 | 15° 2 | T 9 |
| F 10 | 17 15 5 | 19°48'35 | 13°37 | 12°49 | 4°13 | 28°43 | 17°41 | 28°37 | 7°49 | 0°31 | 0°58 | 22°35 | 23°42 | 24°57 | 15° 4 | F 10 |
| S 11 | 17 19 2 | 20°46'06 | 25°39 | 14°58 | 5° 2 | 29°20 | 17°54 | 28°42 | 7°49 | 0°34 | 0°59 | 22°25 | 23°38 | 25° 3 | 15° 6 | S 11 |
| S 12 | 17 22 59 | 21°43'35 | 7♃36 | 17° 8 | 5°50 | 29°57 | 18° 7 | 28°48 | 7°49 | 0°36 | 0°59 | 22°13 | 23°35 | 25°10 | 15° 8 | S 12 |
| M13 | 17 26 55 | 22°41'04 | 19°29 | 19°18 | 6°36 | 0♂35 | 18°20 | 28°53 | 7°49 | 0°38 | 0°59 | 22° 2 | 23°32 | 25°17 | 15°10 | M13 |
| T 14 | 17 30 52 | 23°38'31 | 13♂20 | 21°30 | 7°22 | 1°12 | 18°33 | 28°58 | 7°49 | 0°40 | 1° 0 | 21°52 | 23°29 | 25°23 | 15°12 | T 14 |
| W15 | 17 34 48 | 24°35'58 | 13°11 | 23°42 | 8° 7 | 1°50 | 18°46 | 29° 4 | 7°D49 | 0°42 | 1° 0 | 21°44 | 23°26 | 25°30 | 15°13 | W15 |
| T 16 | 17 38 45 | 25°33'24 | 25° 4 | 25°54 | 8°52 | 2°27 | 18°59 | 29° 9 | 7°49 | 0°45 | 1° 1 | 21°38 | 23°22 | 25°37 | 15°15 | T 16 |
| F 17 | 17 42 41 | 26°30'49 | 7♁ 1 | 28° 6 | 9°35 | 3° 4 | 19°12 | 29°14 | 7°49 | 0°47 | 1° 1 | 21°35 | 23°19 | 25°44 | 15°16 | F 17 |
| S 18 | 17 46 38 | 27°28'13 | 19° 4 | 0♁18 | 10°17 | 3°42 | 19°25 | 29°19 | 7°49 | 0°49 | 1° 1 | 21°D34 | 23°16 | 25°50 | 15°18 | S 18 |
| S 19 | 17 50 35 | 28°25'37 | 1♃19 | 2°29 | 10°58 | 4°19 | 19°38 | 29°24 | 7°49 | 0°51 | 1° 2 | 21°34 | 23°13 | 25°57 | 15°20 | S 19 |
| M20 | 17 54 31 | 29°23'00 | 13°49 | 4°40 | 11°38 | 4°57 | 19°50 | 29°29 | 7°50 | 0°54 | 1° 2 | 21°35 | 23°10 | 26° 4 | 15°21 | M20 |
| T 21 | 17 58 28 | 0♁20'23 | 26°37 | 6°49 | 12°17 | 5°34 | 20° 3 | 29°34 | 7°50 | 0°56 | 1° 2 | 21°R36 | 23° 7 | 26°10 | 15°22 | T 21 |
| W22 | 18 2 24 | 1°17'45 | 9♃49 | 8°57 | 12°55 | 6°11 | 20°16 | 29°39 | 7°50 | 0°58 | 1° 2 | 21°36 | 23° 3 | 26°17 | 15°24 | W22 |
| T 23 | 18 6 21 | 2°15'06 | 23°28 | 11° 4 | 13°32 | 6°49 | 20°28 | 29°44 | 7°51 | 1° 0 | 1° 2 | 21°34 | 23° 0 | 26°24 | 15°25 | T 23 |
| F 24 | 18 10 17 | 3°12'28 | 7♃34 | 13° 9 | 14° 8 | 7°26 | 20°40 | 29°49 | 7°51 | 1° 3 | 1° 3 | 21°30 | 22°57 | 26°30 | 15°26 | F 24 |
| S 25 | 18 14 14 | 4° 9'49 | 22° 8 | 15°12 | 14°42 | 8° 4 | 20°53 | 29°53 | 7°52 | 1° 5 | 1° 3 | 21°24 | 22°54 | 26°37 | 15°28 | S 25 |
| S 26 | 18 18 10 | 5° 7'10 | 7♂ 3 | 17°13 | 15°15 | 8°41 | 21° 5 | 29°58 | 7°52 | 1° 7 | 1° 3 | 21°18 | 22°51 | 26°44 | 15°29 | S 26 |
| M27 | 18 22 7 | 6° 4'30 | 22°13 | 19°12 | 15°46 | 9°18 | 21°17 | 0♂ 2 | 7°53 | 1° 9 | 1° 3 | 21°11 | 22°48 | 26°51 | 15°30 | M27 |
| T 28 | 18 26 4 | 7° 1'50 | 7♁29 | 21° 9 | 16°16 | 9°56 | 21°29 | 0° 7 | 7°54 | 1°12 | 1° 3 | 21° 5 | 22°44 | 26°57 | 15°31 | T 28 |
| W29 | 18 30 0 | 7°59'09 | 22°38 | 23° 4 | 16°45 | 10°33 | 21°41 | 0°11 | 7°54 | 1°14 | 1° 3 | 21° 1 | 22°41 | 27° 4 | 15°32 | W29 |
| T 30 | 18 33 57 | 8♁56'28 | 7♂32 | 24♁57 | 17♂12 | 11♂11 | 21♃53 | 0♂15 | 7♁55 | 1♁16 | 1♃ 3 | 20♂58 | 22♂38 | 27♃11 | 15♃33 | T 30 |

Delta T = 17m32s

ASTRODIENST EPHEMERIS for the year 2557
geocentric

JULY 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|------|------|------|-------|--------|-------|-------|--------|------|
| F 1 | 18 37 53 | 9°53'46 | 22♌4 | 26♄48 | 17♎38 | 11♏48 | 22♌5 | 0♃19 | 7♄56 | 1♅18 | 1°R 3 | 20°D58 | 22♎35 | 27♐17 | 15♑34 | F 1 |
| S 2 | 18 41 50 | 10°51'04 | 6♎10 | 28°36 | 18° 1 | 12°26 | 22°17 | 0°23 | 7°57 | 1°20 | 1°V 3 | 20♏58 | 22°32 | 27°24 | 15°35 | S 2 |
| S 3 | 18 45 46 | 11°48'20 | 19°48 | 0♎22 | 18°24 | 13° 3 | 22°29 | 0°27 | 7°58 | 1°23 | 1° 3 | 21° 0 | 22°28 | 27°31 | 15°36 | S 3 |
| M 4 | 18 49 43 | 12°45'36 | 3♏1 | 2° 6 | 18°44 | 13°41 | 22°40 | 0°31 | 7°59 | 1°25 | 1° 3 | 21° 1 | 22°25 | 27°37 | 15°36 | M 4 |
| T 5 | 18 53 39 | 13°42'52 | 15°50 | 3°47 | 19° 2 | 14°18 | 22°52 | 0°35 | 8° 0 | 1°27 | 1° 3 | 21°R 1 | 22°22 | 27°44 | 15°37 | T 5 |
| W 6 | 18 57 36 | 14°40'06 | 28°20 | 5°27 | 19°19 | 14°56 | 23° 3 | 0°39 | 8° 1 | 1°29 | 1° 3 | 21° 0 | 22°19 | 27°51 | 15°38 | W 6 |
| T 7 | 19 1 33 | 15°37'21 | 10♐36 | 7° 4 | 19°34 | 15°33 | 23°15 | 0°42 | 8° 2 | 1°31 | 1° 3 | 20°58 | 22°16 | 27°58 | 15°38 | T 7 |
| F 8 | 19 5 29 | 16°34'35 | 22°40 | 8°38 | 19°46 | 16°10 | 23°26 | 0°46 | 8° 3 | 1°34 | 1° 2 | 20°54 | 22°13 | 28° 4 | 15°39 | F 8 |
| S 9 | 19 9 26 | 17°31'48 | 4♐37 | 10°11 | 19°57 | 16°48 | 23°37 | 0°49 | 8° 5 | 1°36 | 1° 2 | 20°49 | 22° 9 | 28°11 | 15°39 | S 9 |
| S 10 | 19 13 22 | 18°29'01 | 16°30 | 11°41 | 20° 5 | 17°25 | 23°48 | 0°53 | 8° 6 | 1°38 | 1° 2 | 20°43 | 22° 6 | 28°18 | 15°40 | S 10 |
| M 11 | 19 17 19 | 19°26'14 | 28°21 | 13° 9 | 20°11 | 18° 3 | 23°59 | 0°56 | 8° 7 | 1°40 | 1° 2 | 20°38 | 22° 3 | 28°24 | 15°40 | M 11 |
| T 12 | 19 21 15 | 20°23'27 | 10♑12 | 14°34 | 20°15 | 18°40 | 24°10 | 0°59 | 8° 9 | 1°42 | 1° 2 | 20°33 | 22° 0 | 28°31 | 15°41 | T 12 |
| W 13 | 19 25 12 | 21°20'40 | 22° 7 | 15°57 | 20°R17 | 19°18 | 24°21 | 1° 2 | 8°10 | 1°44 | 1° 1 | 20°29 | 21°57 | 28°38 | 15°41 | W 13 |
| T 14 | 19 29 8 | 22°17'52 | 4♐5 | 17°17 | 20°16 | 19°55 | 24°32 | 1° 5 | 8°12 | 1°47 | 1° 1 | 20°26 | 21°54 | 28°44 | 15°41 | T 14 |
| F 15 | 19 33 5 | 23°15'05 | 16°11 | 18°35 | 20°13 | 20°33 | 24°42 | 1° 8 | 8°13 | 1°49 | 1° 1 | 20°D25 | 21°50 | 28°51 | 15°41 | F 15 |
| S 16 | 19 37 2 | 24°12'17 | 28°25 | 19°51 | 20° 8 | 21°10 | 24°53 | 1°11 | 8°15 | 1°51 | 1° 0 | 20°25 | 21°47 | 28°58 | 15°42 | S 16 |
| S 17 | 19 40 58 | 25° 9'30 | 10♒49 | 21° 4 | 20° 0 | 21°48 | 25° 3 | 1°14 | 8°16 | 1°53 | 1° 0 | 20°26 | 21°44 | 29° 5 | 15°42 | S 17 |
| M 18 | 19 44 55 | 26° 6'43 | 23°28 | 22°14 | 19°50 | 22°26 | 25°14 | 1°16 | 8°18 | 1°55 | 1° 0 | 20°28 | 21°41 | 29°11 | 15°R42 | M 18 |
| T 19 | 19 48 51 | 27° 3'56 | 6♑22 | 23°22 | 19°37 | 23° 3 | 25°24 | 1°19 | 8°20 | 1°57 | 0°59 | 20°29 | 21°38 | 29°18 | 15°42 | T 19 |
| W 20 | 19 52 48 | 28° 1'10 | 19°36 | 24°26 | 19°22 | 23°41 | 25°34 | 1°21 | 8°22 | 1°59 | 0°59 | 20°30 | 21°34 | 29°25 | 15°42 | W 20 |
| T 21 | 19 56 44 | 28°58'25 | 3♒11 | 25°28 | 19° 5 | 24°18 | 25°44 | 1°24 | 8°23 | 2° 1 | 0°58 | 20°R31 | 21°31 | 29°31 | 15°41 | T 21 |
| F 22 | 20 0 41 | 29°55'39 | 17° 9 | 26°27 | 18°45 | 24°56 | 25°54 | 1°26 | 8°25 | 2° 3 | 0°58 | 20°30 | 21°28 | 29°38 | 15°41 | F 22 |
| S 23 | 20 4 37 | 0♓52'55 | 1♒29 | 27°23 | 18°23 | 25°33 | 26° 3 | 1°28 | 8°27 | 2° 5 | 0°57 | 20°28 | 21°25 | 29°45 | 15°41 | S 23 |
| S 24 | 20 8 34 | 1°50'11 | 16° 8 | 28°16 | 18° 0 | 26°11 | 26°13 | 1°30 | 8°29 | 2° 7 | 0°57 | 20°26 | 21°22 | 29°51 | 15°41 | S 24 |
| M 25 | 20 12 31 | 2°47'27 | 1♑1 | 29° 5 | 17°34 | 26°49 | 26°22 | 1°32 | 8°31 | 2° 9 | 0°56 | 20°24 | 21°19 | 29°58 | 15°40 | M 25 |
| T 26 | 20 16 27 | 3°44'45 | 16° 1 | 29°51 | 17° 6 | 27°26 | 26°32 | 1°34 | 8°33 | 2°11 | 0°56 | 20°22 | 21°15 | 0♑5 | 15°40 | T 26 |
| W 27 | 20 20 24 | 4°42'02 | 1♒0 | 0♎33 | 16°36 | 28° 4 | 26°41 | 1°36 | 8°35 | 2°13 | 0°55 | 20°20 | 21°12 | 0°11 | 15°40 | W 27 |
| T 28 | 20 24 20 | 5°39'20 | 15°48 | 1°12 | 16° 5 | 28°41 | 26°50 | 1°38 | 8°38 | 2°15 | 0°55 | 20°D20 | 21° 9 | 0°18 | 15°39 | T 28 |
| F 29 | 20 28 17 | 6°36'38 | 0♎20 | 1°47 | 15°32 | 29°19 | 26°59 | 1°39 | 8°40 | 2°17 | 0°54 | 20°20 | 21° 6 | 0°25 | 15°39 | F 29 |
| S 30 | 20 32 13 | 7°33'57 | 14°28 | 2°17 | 14°58 | 29°57 | 27° 8 | 1°41 | 8°42 | 2°19 | 0°54 | 20°21 | 21° 3 | 0°32 | 15°38 | S 30 |
| S 31 | 20 36 10 | 8♓31'16 | 28♎12 | 2♎44 | 14♏23 | 0♎34 | 27♐17 | 1♑42 | 8♑44 | 2♑21 | 0°V53 | 20♒22 | 21♒0 | 0♑38 | 15°V37 | S 31 |

Delta T = 17m32s

AUGUST 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|-------|-------|------|-------|--------|-------|------|--------|------|
| M 1 | 20 40 6 | 9♓28'35 | 11♑30 | 3♎6 | 13°R47 | 1♎12 | 27♐25 | 1♑43 | 8♑47 | 2♑23 | 0°R52 | 20♒23 | 20♒56 | 0♑45 | 15°R37 | M 1 |
| T 2 | 20 44 3 | 10°25'54 | 24°24 | 3°23 | 13♒10 | 1°50 | 27°34 | 1°45 | 8°49 | 2°25 | 0°V52 | 20°23 | 20°53 | 0°52 | 15°V36 | T 2 |
| W 3 | 20 48 0 | 11°23'14 | 6♐58 | 3°36 | 12°32 | 2°28 | 27°42 | 1°46 | 8°51 | 2°26 | 0°51 | 20°R24 | 20°50 | 0°58 | 15°35 | W 3 |
| T 4 | 20 51 56 | 12°20'34 | 19°14 | 3°44 | 11°55 | 3° 5 | 27°50 | 1°47 | 8°54 | 2°28 | 0°50 | 20°24 | 20°47 | 1° 5 | 15°34 | T 4 |
| F 5 | 20 55 53 | 13°17'54 | 1♐18 | 3°R47 | 11°18 | 3°43 | 27°59 | 1°47 | 8°56 | 2°30 | 0°49 | 20°23 | 20°44 | 1°12 | 15°34 | F 5 |
| S 6 | 20 59 49 | 14°15'15 | 13°13 | 3°46 | 10°40 | 4°21 | 28° 6 | 1°48 | 8°59 | 2°32 | 0°49 | 20°23 | 20°40 | 1°18 | 15°33 | S 6 |
| S 7 | 21 3 46 | 15°12'37 | 25° 5 | 3°38 | 10° 4 | 4°58 | 28°14 | 1°49 | 9° 1 | 2°34 | 0°48 | 20°22 | 20°37 | 1°25 | 15°32 | S 7 |
| M 8 | 21 7 42 | 16° 9'59 | 6♑56 | 3°26 | 9°28 | 5°36 | 28°22 | 1°49 | 9° 4 | 2°35 | 0°47 | 20°21 | 20°34 | 1°32 | 15°31 | M 8 |
| T 9 | 21 11 39 | 17° 7'21 | 18°50 | 3° 9 | 8°53 | 6°14 | 28°29 | 1°50 | 9° 7 | 2°37 | 0°46 | 20°21 | 20°31 | 1°38 | 15°30 | T 9 |
| W 10 | 21 15 35 | 18° 4'45 | 0♑50 | 2°47 | 8°19 | 6°52 | 28°37 | 1°50 | 9° 9 | 2°39 | 0°45 | 20°21 | 20°28 | 1°45 | 15°28 | W 10 |
| T 11 | 21 19 32 | 19° 2'09 | 12°58 | 2°20 | 7°47 | 7°29 | 28°44 | 1°50 | 9°12 | 2°40 | 0°45 | 20°21 | 20°25 | 1°52 | 15°27 | T 11 |
| F 12 | 21 23 29 | 19°59'33 | 25°16 | 1°48 | 7°16 | 8° 7 | 28°51 | 1°51 | 9°15 | 2°42 | 0°44 | 20°21 | 20°21 | 1°58 | 15°26 | F 12 |
| S 13 | 21 27 25 | 20°56'59 | 7♒46 | 1°12 | 6°47 | 8°45 | 28°58 | 1°R51 | 9°18 | 2°44 | 0°43 | 20°21 | 20°18 | 2° 5 | 15°25 | S 13 |
| S 14 | 21 31 22 | 21°54'26 | 20°28 | 0°33 | 6°19 | 9°23 | 29° 5 | 1°51 | 9°20 | 2°45 | 0°42 | 20°20 | 20°15 | 2°12 | 15°23 | S 14 |
| M 15 | 21 35 18 | 22°51'53 | 3°V23 | 29♒50 | 5°54 | 10° 1 | 29°11 | 1°50 | 9°23 | 2°47 | 0°41 | 20°20 | 20°12 | 2°19 | 15°22 | M 15 |
| T 16 | 21 39 15 | 23°49'22 | 16°33 | 29° 5 | 5°31 | 10°39 | 29°18 | 1°50 | 9°26 | 2°49 | 0°40 | 20°20 | 20° 9 | 2°25 | 15°21 | T 16 |
| W 17 | 21 43 11 | 24°46'52 | 29°58 | 28°18 | 5°10 | 11°16 | 29°24 | 1°50 | 9°29 | 2°50 | 0°39 | 20°19 | 20° 5 | 2°32 | 15°19 | W 17 |
| T 18 | 21 47 8 | 25°44'24 | 13♒38 | 27°30 | 4°51 | 11°54 | 29°30 | 1°49 | 9°32 | 2°52 | 0°38 | 20°19 | 20° 2 | 2°39 | 15°18 | T 18 |
| F 19 | 21 51 4 | 26°41'57 | 27°33 | 26°42 | 4°35 | 12°32 | 29°36 | 1°49 | 9°35 | 2°53 | 0°37 | 20°D19 | 19°59 | 2°45 | 15°16 | F 19 |
| S 20 | 21 55 1 | 27°39'31 | 11♒42 | 25°54 | 4°21 | 13°10 | 29°42 | 1°48 | 9°38 | 2°55 | 0°36 | 20°19 | 19°56 | 2°52 | 15°15 | S 20 |
| S 21 | 21 58 58 | 28°37'07 | 26° 4 | 25° 9 | 4°10 | 13°48 | 29°48 | 1°47 | 9°41 | 2°56 | 0°35 | 20°20 | 19°53 | 2°59 | 15°13 | S 21 |
| M 22 | 22 2 54 | 29°34'44 | 10♑35 | 24°26 | 4° 0 | 14°26 | 29°53 | 1°46 | 9°44 | 2°57 | 0°34 | 20°20 | 19°50 | 3° 5 | 15°11 | M 22 |
| T 23 | 22 6 51 | 0♎32'22 | 25°11 | 23°46 | 3°54 | 15° 4 | 29°58 | 1°45 | 9°47 | 2°59 | 0°33 | 20°21 | 19°46 | 3°12 | 15°10 | T 23 |
| W 24 | 22 10 47 | 1°30'02 | 9♒47 | 23°11 | 3°49 | 15°42 | 0♒4 | 1°44 | 9°51 | 3° 0 | 0°32 | 20°22 | 19°43 | 3°19 | 15° 8 | W 24 |
| T 25 | 22 14 44 | 2°27'43 | 24°16 | 22°41 | 3°D48 | 16°20 | 0° 9 | 1°43 | 9°54 | 3° 2 | 0°31 | 20°R22 | 19°40 | 3°25 | 15° 6 | T 25 |
| F 26 | 22 18 40 | 3°25'26 | 8♎34 | 22°17 | 3°48 | 16°58 | 0°13 | 1°42 | 9°57 | 3° 3 | 0°30 | 20°21 | 19°37 | 3°32 | 15° 4 | F 26 |
| S 27 | 22 22 37 | 4°23'09 | 22°35 | 21°59 | 3°51 | 17°36 | 0°18 | 1°41 | 10° 0 | 3° 4 | 0°29 | 20°20 | 19°34 | 3°39 | 15° 2 | S 27 |
| S 28 | 22 26 33 | 5°20'54 | 6♑16 | 21°47 | 3°55 | 18°14 | 0°22 | 1°39 | 10° 3 | 3° 5 | 0°28 | 20°18 | 19°31 | 3°45 | 15° 0 | S 28 |
| M 29 | 22 30 30 | 6°18'40 | 19°34 | 21°D43 | 4° 3 | 18°52 | 0°27 | 1°37 | 10° 7 | 3° 7 | 0°27 | 20°16 | 19°27 | 3°52 | 14°58 | M 29 |
| T 30 | 22 34 26 | 7°16'27 | 2♐30 | 21°47 | 4°12 | 19°30 | 0°31 | 1°36 | 10°10 | 3° 8 | 0°26 | 20°14 | 19°24 | 3°59 | 14°56 | T 30 |
| W 31 | 22 38 23 | 8♎14'15 | 15♐6 | 21♒58 | 4♒23 | 20♎8 | 0♒35 | 1♑34 | 10♑13 | 3♑9 | 0°V25 | 20♒12 | 19♒21 | 4♑6 | 14°V54 | W 31 |

Delta T = 17m32s

ASTRODIENST EPHEMERIS for the year 2557
geocentric

SEPTEMBER 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|----------|--------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|------|--------|------|---|-----|
| T 1 | 22 42 20 | 9♐12'05 | 27♍24 | 22♏17 | 4♌37 | 20♐46 | 0♐38 | 1°R32 | 10♌17 | 3♄10 | 0°R24 | 20°R11 | 19♏18 | 4♄12 | 14°R52 | T 1 | | |
| F 2 | 22 46 16 | 10° 9'56 | 9♐28 | 22°44 | 4°52 | 21°25 | 0°42 | 1♄30 | 10°20 | 3°11 | 0°Y22 | 20°D10 | 19°15 | 4°19 | 14°Y50 | F 2 | | |
| S 3 | 22 50 13 | 11° 7'47 | 21°24 | 23°18 | 5° 9 | 22° 3 | 0°45 | 1°28 | 10°24 | 3°12 | 0°21 | 20♏11 | 19°11 | 4°26 | 14°48 | S 3 | | |
| S 4 | 22 54 9 | 12° 5'40 | 3♄15 | 24° 0 | 5°29 | 22°41 | 0°48 | 1°26 | 10°27 | 3°13 | 0°20 | 20°12 | 19° 8 | 4°32 | 14°46 | S 4 | | |
| M 5 | 22 58 6 | 13° 3'35 | 15° 7 | 24°50 | 5°50 | 23°19 | 0°51 | 1°24 | 10°30 | 3°14 | 0°19 | 20°14 | 19° 5 | 4°39 | 14°44 | M 5 | | |
| T 6 | 23 2 2 | 14° 1'30 | 27° 4 | 25°47 | 6°13 | 23°57 | 0°54 | 1°21 | 10°34 | 3°15 | 0°18 | 20°15 | 19° 2 | 4°46 | 14°42 | T 6 | | |
| W 7 | 23 5 59 | 14°59'27 | 9♋9 | 26°50 | 6°37 | 24°36 | 0°57 | 1°19 | 10°37 | 3°16 | 0°17 | 20°16 | 18°59 | 4°52 | 14°39 | W 7 | | |
| T 8 | 23 9 55 | 15°57'25 | 21°27 | 28° 1 | 7° 3 | 25°14 | 0°59 | 1°16 | 10°41 | 3°17 | 0°16 | 20°R17 | 18°56 | 4°59 | 14°37 | T 8 | | |
| F 9 | 23 13 52 | 16°55'25 | 3♄59 | 29°17 | 7°31 | 25°52 | 1° 1 | 1°14 | 10°44 | 3°18 | 0°14 | 20°16 | 18°52 | 5° 6 | 14°35 | F 9 | | |
| S 10 | 23 17 49 | 17°53'26 | 16°46 | 0♐39 | 8° 0 | 26°30 | 1° 3 | 1°11 | 10°48 | 3°19 | 0°13 | 20°14 | 18°49 | 5°12 | 14°32 | S 10 | | |
| S 11 | 23 21 45 | 18°51'29 | 29°50 | 2° 6 | 8°31 | 27° 9 | 1° 5 | 1° 8 | 10°52 | 3°20 | 0°12 | 20°11 | 18°46 | 5°19 | 14°30 | S 11 | | |
| M12 | 23 25 42 | 19°49'33 | 13°Y10 | 3°39 | 9° 3 | 27°47 | 1° 7 | 1° 5 | 10°55 | 3°21 | 0°11 | 20° 6 | 18°43 | 5°26 | 14°28 | M12 | | |
| T 13 | 23 29 38 | 20°47'40 | 26°44 | 5°15 | 9°37 | 28°25 | 1° 8 | 1° 2 | 10°59 | 3°22 | 0°10 | 20° 2 | 18°40 | 5°32 | 14°25 | T 13 | | |
| W14 | 23 33 35 | 21°45'48 | 10♄29 | 6°55 | 10°12 | 29° 4 | 1° 9 | 0°59 | 11° 2 | 3°22 | 0° 8 | 19°57 | 18°37 | 5°39 | 14°23 | W14 | | |
| T 15 | 23 37 31 | 22°43'58 | 24°25 | 8°38 | 10°48 | 29°42 | 1°11 | 0°56 | 11° 6 | 3°23 | 0° 7 | 19°54 | 18°33 | 5°46 | 14°20 | T 15 | | |
| F 16 | 23 41 28 | 23°42'10 | 8♐27 | 10°25 | 11°26 | 0♌20 | 1°11 | 0°53 | 11°10 | 3°24 | 0° 6 | 19°51 | 18°30 | 5°52 | 14°18 | F 16 | | |
| S 17 | 23 45 24 | 24°40'24 | 22°35 | 12°13 | 12° 4 | 0°59 | 1°12 | 0°50 | 11°13 | 3°24 | 0° 5 | 19°D50 | 18°27 | 5°59 | 14°15 | S 17 | | |
| S 18 | 23 49 21 | 25°38'40 | 6♄46 | 14° 3 | 12°44 | 1°37 | 1°12 | 0°47 | 11°17 | 3°25 | 0° 4 | 19°51 | 18°24 | 6° 6 | 14°13 | S 18 | | |
| M19 | 23 53 18 | 26°36'58 | 20°58 | 15°55 | 13°25 | 2°16 | 1°13 | 0°43 | 11°21 | 3°26 | 0° 2 | 19°52 | 18°21 | 6°12 | 14°10 | M19 | | |
| T 20 | 23 57 14 | 27°35'19 | 5♏10 | 17°47 | 14° 7 | 2°54 | 1°R13 | 0°40 | 11°24 | 3°26 | 0° 1 | 19°53 | 18°17 | 6°19 | 14° 8 | T 20 | | |
| W21 | 0 1 11 | 28°33'41 | 19°19 | 19°41 | 14°50 | 3°33 | 1°13 | 0°36 | 11°28 | 3°27 | 29°X59 | 19°R54 | 18°14 | 6°26 | 14° 5 | W21 | | |
| T 22 | 0 5 7 | 29°32'05 | 3♐23 | 21°34 | 15°34 | 4°11 | 1°12 | 0°32 | 11°32 | 3°27 | 29°59 | 19°53 | 18°11 | 6°33 | 14° 2 | T 22 | | |
| F 23 | 0 9 4 | 0♌30'32 | 17°17 | 23°28 | 16°19 | 4°50 | 1°12 | 0°29 | 11°36 | 3°28 | 29°57 | 19°50 | 18° 8 | 6°39 | 14° 0 | F 23 | | |
| S 24 | 0 13 0 | 1°29'00 | 1♌ 0 | 25°22 | 17° 5 | 5°29 | 1°11 | 0°25 | 11°39 | 3°28 | 29°56 | 19°46 | 18° 5 | 6°46 | 13°57 | S 24 | | |
| S 25 | 0 16 57 | 2°27'29 | 14°27 | 27°15 | 17°52 | 6° 7 | 1°10 | 0°21 | 11°43 | 3°28 | 29°55 | 19°39 | 18° 2 | 6°53 | 13°55 | S 25 | | |
| M26 | 0 20 53 | 3°26'01 | 27°37 | 29° 8 | 18°39 | 6°46 | 1° 9 | 0°17 | 11°47 | 3°29 | 29°54 | 19°32 | 17°58 | 6°59 | 13°52 | M26 | | |
| T 27 | 0 24 50 | 4°24'35 | 10♍29 | 1♌ 1 | 19°28 | 7°24 | 1° 7 | 0°13 | 11°51 | 3°29 | 29°53 | 19°24 | 17°55 | 7° 6 | 13°49 | T 27 | | |
| W28 | 0 28 46 | 5°23'10 | 23° 2 | 2°53 | 20°17 | 8° 3 | 1° 6 | 0° 9 | 11°54 | 3°29 | 29°51 | 19°17 | 17°52 | 7°13 | 13°47 | W28 | | |
| T 29 | 0 32 43 | 6°21'47 | 5♐19 | 4°44 | 21° 7 | 8°42 | 1° 4 | 0° 5 | 11°58 | 3°30 | 29°50 | 19°11 | 17°49 | 7°19 | 13°44 | T 29 | | |
| F 30 | 0 36 40 | 7♌20'26 | 17°X24 | 6♌34 | 21♌58 | 9♌21 | 1♐ 2 | 0♄ 1 | 12° 2 | 3♄30 | 29°X49 | 19°L 7 | 17°L46 | 7♄26 | 13°Y41 | F 30 | | |

Delta T = 17m33s

OCTOBER 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|-------|-------|--------|--------|--------|-------|--------|------|---|-----|
| S 1 | 0 40 36 | 8♌19'06 | 29♐18 | 8♌24 | 22♏49 | 9♌59 | 1°R 0 | 29°R57 | 12♌ 6 | 3♄30 | 29°R48 | 19°R 4 | 17♏42 | 7♄33 | 13°R38 | S 1 | | |
| S 2 | 0 44 33 | 9°17'48 | 11♄ 9 | 10°12 | 23°41 | 10°38 | 0♐57 | 29°Y53 | 12°10 | 3°30 | 29°X47 | 19°D 4 | 17°39 | 7°39 | 13°Y36 | S 2 | | |
| M 3 | 0 48 29 | 10°16'32 | 23° 0 | 12° 0 | 24°34 | 11°17 | 0°55 | 29°48 | 12°13 | 3°30 | 29°45 | 19♏ 5 | 17°36 | 7°46 | 13°33 | M 3 | | |
| T 4 | 0 52 26 | 11°15'17 | 4♋57 | 13°47 | 25°27 | 11°56 | 0°52 | 29°44 | 12°17 | 3°30 | 29°44 | 19° 6 | 17°33 | 7°53 | 13°30 | T 4 | | |
| W 5 | 0 56 22 | 12°14'04 | 17° 5 | 15°32 | 26°21 | 12°35 | 0°49 | 29°40 | 12°21 | 3°30 | 29°43 | 19°R 7 | 17°30 | 7°59 | 13°28 | W 5 | | |
| T 6 | 1 0 19 | 13°12'53 | 29°28 | 17°17 | 27°16 | 13°13 | 0°46 | 29°35 | 12°25 | 3°R30 | 29°42 | 19° 6 | 17°27 | 8° 6 | 13°25 | T 6 | | |
| F 7 | 1 4 15 | 14°11'44 | 12♄10 | 19° 1 | 28°11 | 13°52 | 0°43 | 29°31 | 12°29 | 3°30 | 29°41 | 19° 4 | 17°23 | 8°13 | 13°22 | F 7 | | |
| S 8 | 1 8 12 | 15°10'36 | 25°13 | 20°44 | 29° 7 | 14°31 | 0°39 | 29°26 | 12°32 | 3°30 | 29°39 | 18°59 | 17°20 | 8°19 | 13°19 | S 8 | | |
| S 9 | 1 12 9 | 16° 9'30 | 8°Y38 | 22°27 | 0♐ 3 | 15°10 | 0°35 | 29°22 | 12°36 | 3°30 | 29°38 | 18°52 | 17°17 | 8°26 | 13°17 | S 9 | | |
| M10 | 1 16 5 | 17° 8'26 | 22°22 | 24° 8 | 1° 0 | 15°49 | 0°31 | 29°17 | 12°40 | 3°30 | 29°37 | 18°43 | 17°14 | 8°33 | 13°14 | M10 | | |
| T 11 | 1 20 2 | 18° 7'25 | 6♄24 | 25°48 | 1°58 | 16°28 | 0°27 | 29°13 | 12°44 | 3°30 | 29°36 | 18°33 | 17°11 | 8°39 | 13°11 | T 11 | | |
| W12 | 1 23 58 | 19° 6'25 | 20°37 | 27°28 | 2°55 | 17° 7 | 0°23 | 29° 8 | 12°47 | 3°30 | 29°35 | 18°23 | 17° 8 | 8°46 | 13° 9 | W12 | | |
| T 13 | 1 27 55 | 20° 5'28 | 4♐56 | 29° 7 | 3°54 | 17°46 | 0°19 | 29° 3 | 12°51 | 3°30 | 29°34 | 18°15 | 17° 4 | 8°53 | 13° 6 | T 13 | | |
| F 14 | 1 31 51 | 21° 4'32 | 19°17 | 0♍44 | 4°53 | 18°25 | 0°14 | 28°59 | 12°55 | 3°29 | 29°33 | 18° 9 | 17° 1 | 8°59 | 13° 3 | F 14 | | |
| S 15 | 1 35 48 | 22° 3'40 | 3♄35 | 2°22 | 5°52 | 19° 4 | 0° 9 | 28°54 | 12°59 | 3°29 | 29°31 | 18° 5 | 16°58 | 9° 6 | 13° 1 | S 15 | | |
| S 16 | 1 39 44 | 23° 2'49 | 17°47 | 3°58 | 6°52 | 19°44 | 0° 4 | 28°49 | 13° 3 | 3°29 | 29°30 | 18°D 4 | 16°55 | 9°13 | 12°58 | S 16 | | |
| M17 | 1 43 41 | 24° 2'01 | 1♌51 | 5°33 | 7°52 | 20°23 | 29°X59 | 28°45 | 13° 6 | 3°29 | 29°29 | 18° 4 | 16°52 | 9°19 | 12°55 | M17 | | |
| T 18 | 1 47 38 | 25° 1'15 | 15°47 | 7° 8 | 8°53 | 21° 2 | 29°54 | 28°40 | 13°10 | 3°28 | 29°28 | 18°R 4 | 16°48 | 9°26 | 12°53 | T 18 | | |
| W19 | 1 51 34 | 26° 0'31 | 29°34 | 8°42 | 9°54 | 21°41 | 29°48 | 28°35 | 13°14 | 3°28 | 29°27 | 18° 4 | 16°45 | 9°33 | 12°50 | W19 | | |
| T 20 | 1 55 31 | 26°59'50 | 13♐13 | 10°16 | 10°55 | 22°20 | 29°43 | 28°31 | 13°17 | 3°27 | 29°26 | 18° 2 | 16°42 | 9°39 | 12°47 | T 20 | | |
| F 21 | 1 59 27 | 27°59'11 | 26°42 | 11°48 | 11°57 | 23° 0 | 29°37 | 28°26 | 13°21 | 3°27 | 29°25 | 17°56 | 16°39 | 9°46 | 12°45 | F 21 | | |
| S 22 | 2 3 24 | 28°58'34 | 10♌ 1 | 13°20 | 12°59 | 23°39 | 29°31 | 28°21 | 13°25 | 3°26 | 29°24 | 17°48 | 16°36 | 9°53 | 12°42 | S 22 | | |
| S 23 | 2 7 20 | 29°57'59 | 23° 8 | 14°51 | 14° 1 | 24°18 | 29°25 | 28°16 | 13°29 | 3°26 | 29°23 | 17°38 | 16°33 | 9°59 | 12°40 | S 23 | | |
| M24 | 2 11 17 | 0♍57'26 | 6♍ 2 | 16°22 | 15° 4 | 24°58 | 29°18 | 28°12 | 13°32 | 3°25 | 29°22 | 17°25 | 16°29 | 10° 6 | 12°37 | M24 | | |
| T 25 | 2 15 13 | 1°56'55 | 18°42 | 17°52 | 16° 7 | 25°37 | 29°12 | 28° 7 | 13°36 | 3°25 | 29°21 | 17°12 | 16°26 | 10°13 | 12°34 | T 25 | | |
| W26 | 2 19 10 | 2°56'26 | 1♐ 8 | 19°21 | 17°11 | 26°17 | 29° 6 | 28° 2 | 13°40 | 3°24 | 29°20 | 16°59 | 16°23 | 10°19 | 12°32 | W26 | | |
| T 27 | 2 23 7 | 3°55'59 | 13°20 | 20°49 | 18°15 | 26°56 | 28°59 | 27°57 | 13°43 | 3°23 | 29°19 | 16°49 | 16°20 | 10°26 | 12°29 | T 27 | | |
| F 28 | 2 27 3 | 4°55'34 | 25°21 | 22°17 | 19°19 | 27°36 | 28°52 | 27°53 | 13°47 | 3°23 | 29°18 | 16°40 | 16°17 | 10°33 | 12°27 | F 28 | | |
| S 29 | 2 31 0 | 5°55'11 | 7♄14 | 23°44 | 20°23 | 28°15 | 28°45 | 27°48 | 13°50 | 3°22 | 29°17 | 16°34 | 16°14 | 10°39 | 12°25 | S 29 | | |
| S 30 | 2 34 56 | 6°54'49 | 19° 2 | 25°11 | 21°28 | 28°55 | 28°38 | 27°43 | 13°54 | 3°21 | 29°16 | 16°31 | 16°10 | 10°46 | 12°22 | S 30 | | |
| M31 | 2 38 53 | 7♍54'29 | 0♋51 | 26♍36 | 22♐33 | 29♌34 | 28♄31 | 27°Y39 | 13°58 | 3♄20 | 29°X15 | 16♏30 | 16°L 7 | 10♄53 | 12°Y20 | M31 | | |

Delta T = 17m33s

ASTRODIENST EPHEMERIS for the year 2557
geocentric

NOVEMBER 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♂ | ♄ | ♃ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|--------|-------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|------|-----|
| T 1 | 2 42 49 | 8♌54'11 | 12♋46 | 28♌1 | 23♎38 | 0♌14 | 28°R24 | 27°R34 | 14♌1 | 3°R20 | 29°R14 | 16°R30 | 16♌4 | 10♌59 | 12°R17 | T 1 | |
| W 2 | 2 46 46 | 9°53'55 | 24°52 | 29°25 | 24°43 | 0°53 | 28♌16 | 27°R30 | 14°5 | 3♌19 | 29°R13 | 16♌29 | 16°1 | 11°6 | 12°R15 | W 2 | |
| T 3 | 2 50 42 | 10°53'40 | 7♌15 | 0♌48 | 25°49 | 1°33 | 28°9 | 27°25 | 14°8 | 3°18 | 29°13 | 16°28 | 15°58 | 11°13 | 12°13 | T 3 | |
| F 4 | 2 54 39 | 11°53'27 | 20°0 | 2°10 | 26°55 | 2°13 | 28°2 | 27°21 | 14°12 | 3°17 | 29°12 | 16°25 | 15°54 | 11°19 | 12°10 | F 4 | |
| S 5 | 2 58 36 | 12°53'15 | 3°V10 | 3°32 | 28°1 | 2°52 | 27°54 | 27°16 | 14°15 | 3°16 | 29°11 | 16°19 | 15°51 | 11°26 | 12°8 | S 5 | |
| S 6 | 3 2 32 | 13°53'05 | 16°46 | 4°52 | 29°8 | 3°32 | 27°46 | 27°12 | 14°18 | 3°15 | 29°10 | 16°10 | 15°48 | 11°33 | 12°6 | S 6 | |
| M 7 | 3 6 29 | 14°52'57 | 0♌48 | 6°11 | 0♌15 | 4°12 | 27°38 | 27°7 | 14°22 | 3°14 | 29°9 | 15°59 | 15°45 | 11°39 | 12°4 | M 7 | |
| T 8 | 3 10 25 | 15°52'51 | 15°12 | 7°29 | 1°22 | 4°52 | 27°31 | 27°3 | 14°25 | 3°13 | 29°8 | 15°47 | 15°42 | 11°46 | 12°2 | T 8 | |
| W 9 | 3 14 22 | 16°52'47 | 29°51 | 8°46 | 2°29 | 5°32 | 27°23 | 26°59 | 14°29 | 3°12 | 29°8 | 15°35 | 15°39 | 11°53 | 12°0 | W 9 | |
| T 10 | 3 18 18 | 17°52'45 | 14♌38 | 10°1 | 3°36 | 6°11 | 27°15 | 26°54 | 14°32 | 3°11 | 29°7 | 15°25 | 15°35 | 12°0 | 11°57 | T 10 | |
| F 11 | 3 22 15 | 18°52'45 | 29°25 | 11°15 | 4°44 | 6°51 | 27°7 | 26°50 | 14°35 | 3°10 | 29°6 | 15°17 | 15°32 | 12°6 | 11°55 | F 11 | |
| S 12 | 3 26 11 | 19°52'47 | 14♌3 | 12°27 | 5°52 | 7°31 | 26°59 | 26°46 | 14°39 | 3°9 | 29°6 | 15°12 | 15°29 | 12°13 | 11°53 | S 12 | |
| S 13 | 3 30 8 | 20°52'51 | 28°28 | 13°37 | 7°0 | 8°11 | 26°51 | 26°42 | 14°42 | 3°8 | 29°5 | 15°9 | 15°26 | 12°20 | 11°51 | S 13 | |
| M14 | 3 34 5 | 21°52'57 | 12♌38 | 14°45 | 8°8 | 8°51 | 26°43 | 26°38 | 14°45 | 3°6 | 29°4 | 15°8 | 15°23 | 12°26 | 11°49 | M14 | |
| T 15 | 3 38 1 | 22°53'05 | 26°31 | 15°51 | 9°17 | 9°31 | 26°34 | 26°34 | 14°48 | 3°5 | 29°4 | 15°8 | 15°19 | 12°33 | 11°48 | T 15 | |
| W16 | 3 41 58 | 23°53'15 | 10♎8 | 16°54 | 10°25 | 10°11 | 26°26 | 26°30 | 14°51 | 3°4 | 29°3 | 15°8 | 15°16 | 12°40 | 11°46 | W16 | |
| T 17 | 3 45 54 | 24°53'27 | 23°30 | 17°54 | 11°34 | 10°51 | 26°18 | 26°26 | 14°55 | 3°3 | 29°2 | 15°5 | 15°13 | 12°46 | 11°44 | T 17 | |
| F 18 | 3 49 51 | 25°53'41 | 6♌39 | 18°51 | 12°43 | 11°32 | 26°10 | 26°22 | 14°58 | 3°2 | 29°2 | 15°0 | 15°10 | 12°53 | 11°42 | F 18 | |
| S 19 | 3 53 47 | 26°53'58 | 19°37 | 19°44 | 13°52 | 12°12 | 26°2 | 26°18 | 15°1 | 3°0 | 29°1 | 14°51 | 15°7 | 13°0 | 11°40 | S 19 | |
| S 20 | 3 57 44 | 27°54'16 | 2♌23 | 20°33 | 15°2 | 12°52 | 25°54 | 26°15 | 15°4 | 2°59 | 29°1 | 14°40 | 15°4 | 13°6 | 11°39 | S 20 | |
| M21 | 4 1 40 | 28°54'35 | 14°58 | 21°17 | 16°11 | 13°32 | 25°45 | 26°11 | 15°7 | 2°58 | 29°0 | 14°27 | 15°0 | 13°13 | 11°37 | M21 | |
| T 22 | 4 5 37 | 29°54'57 | 27°23 | 21°56 | 17°21 | 14°12 | 25°37 | 26°8 | 15°10 | 2°56 | 29°0 | 14°13 | 14°57 | 13°20 | 11°36 | T 22 | |
| W23 | 4 9 33 | 0♌55'20 | 9♌37 | 22°29 | 18°31 | 14°53 | 25°29 | 26°4 | 15°13 | 2°55 | 28°59 | 14°0 | 14°54 | 13°26 | 11°34 | W23 | |
| T 24 | 4 13 30 | 1°55'45 | 21°41 | 22°56 | 19°41 | 15°33 | 25°21 | 26°1 | 15°16 | 2°54 | 28°59 | 13°48 | 14°51 | 13°33 | 11°32 | T 24 | |
| F 25 | 4 17 27 | 2°56'12 | 3♌37 | 23°15 | 20°51 | 16°13 | 25°13 | 25°57 | 15°19 | 2°52 | 28°58 | 13°39 | 14°48 | 13°40 | 11°31 | F 25 | |
| S 26 | 4 21 23 | 3°56'40 | 15°27 | 23°27 | 22°1 | 16°54 | 25°5 | 25°54 | 15°21 | 2°51 | 28°58 | 13°32 | 14°45 | 13°46 | 11°30 | S 26 | |
| S 27 | 4 25 20 | 4°57'09 | 27°13 | 23°R29 | 23°11 | 17°34 | 24°57 | 25°51 | 15°24 | 2°49 | 28°58 | 13°28 | 14°41 | 13°53 | 11°28 | S 27 | |
| M28 | 4 29 16 | 5°57'40 | 9♌0 | 23°22 | 24°22 | 18°15 | 24°49 | 25°48 | 15°27 | 2°48 | 28°57 | 13°D27 | 14°38 | 14°0 | 11°27 | M28 | |
| T 29 | 4 33 13 | 6°58'12 | 20°53 | 23°5 | 25°33 | 18°55 | 24°41 | 25°45 | 15°30 | 2°46 | 28°57 | 13°27 | 14°35 | 14°6 | 11°26 | T 29 | |
| W30 | 4 37 9 | 7°58'45 | 2♌56 | 22°38 | 26°43 | 19°M36 | 24°B34 | 25°V42 | 15°B32 | 2°45 | 28°57 | 13°R28 | 14°B32 | 14°B13 | 11°V24 | W30 | |

Delta T = 17m33s

DECEMBER 2557

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♂ | ♄ | ♃ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|-------|-------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|------|-----|
| T 1 | 4 41 6 | 8♌59'19 | 15♌16 | 22°R | 07♌54 | 20♌16 | 24°R26 | 25°R39 | 15♌35 | 2°R43 | 28°R56 | 13°R28 | 14♌29 | 14♌20 | 11°R23 | T 1 | |
| F 2 | 4 45 3 | 9°59'54 | 27°56 | 21°11 | 29°5 | 20°57 | 24♌18 | 25°V37 | 15°38 | 2♌42 | 28°R56 | 13♌26 | 14°25 | 14°26 | 11°V22 | F 2 | |
| S 3 | 4 48 59 | 11°03'1 | 11°V3 | 20°13 | 0♌16 | 21°37 | 24°11 | 25°34 | 15°40 | 2°40 | 28°56 | 13°22 | 14°22 | 14°33 | 11°21 | S 3 | |
| S 4 | 4 52 56 | 12°1'08 | 24°38 | 19°5 | 1°28 | 22°18 | 24°3 | 25°32 | 15°43 | 2°39 | 28°55 | 13°16 | 14°19 | 14°39 | 11°20 | S 4 | |
| M 5 | 4 56 52 | 13°1'47 | 8♌43 | 17°51 | 2°39 | 22°59 | 23°56 | 25°29 | 15°45 | 2°37 | 28°55 | 13°7 | 14°16 | 14°46 | 11°19 | M 5 | |
| T 6 | 5 0 49 | 14°2'27 | 23°15 | 16°31 | 3°51 | 23°39 | 23°49 | 25°27 | 15°48 | 2°35 | 28°55 | 12°58 | 14°13 | 14°53 | 11°18 | T 6 | |
| W 7 | 5 4 45 | 15°3'08 | 8♌19 | 15°9 | 5°2 | 24°20 | 23°42 | 25°25 | 15°50 | 2°34 | 28°55 | 12°49 | 14°10 | 14°59 | 11°17 | W 7 | |
| T 8 | 5 8 42 | 16°3'51 | 23°15 | 13°47 | 6°14 | 25°1 | 23°35 | 25°23 | 15°52 | 2°32 | 28°55 | 12°40 | 14°6 | 15°6 | 11°17 | T 8 | |
| F 9 | 5 12 38 | 17°4'35 | 8♌24 | 12°28 | 7°26 | 25°42 | 23°28 | 25°20 | 15°55 | 2°31 | 28°55 | 12°34 | 14°3 | 15°13 | 11°16 | F 9 | |
| S 10 | 5 16 35 | 18°5'20 | 23°25 | 11°14 | 8°37 | 26°23 | 23°21 | 25°19 | 15°57 | 2°29 | 28°55 | 12°30 | 14°0 | 15°19 | 11°15 | S 10 | |
| S 11 | 5 20 32 | 19°6'06 | 8♌12 | 10°8 | 9°49 | 27°3 | 23°15 | 25°17 | 15°59 | 2°27 | 28°55 | 12°D28 | 13°57 | 15°26 | 11°14 | S 11 | |
| M12 | 5 24 28 | 20°6'54 | 22°38 | 9°12 | 11°1 | 27°44 | 23°8 | 25°15 | 16°1 | 2°26 | 28°55 | 12°29 | 13°54 | 15°33 | 11°14 | M12 | |
| T 13 | 5 28 25 | 21°7'43 | 6♌41 | 8°26 | 12°14 | 28°25 | 23°2 | 25°13 | 16°3 | 2°24 | 28°D55 | 12°30 | 13°51 | 15°39 | 11°13 | T 13 | |
| W14 | 5 32 21 | 22°8'34 | 20°21 | 7°51 | 13°26 | 29°6 | 22°56 | 25°12 | 16°5 | 2°22 | 28°55 | 12°R30 | 13°47 | 15°46 | 11°13 | W14 | |
| T 15 | 5 36 18 | 23°9'26 | 3♌40 | 7°28 | 14°38 | 29°47 | 22°50 | 25°10 | 16°7 | 2°21 | 28°55 | 12°30 | 13°44 | 15°53 | 11°12 | T 15 | |
| F 16 | 5 40 14 | 24°10'19 | 16°41 | 7°17 | 15°51 | 0♌28 | 22°44 | 25°9 | 16°9 | 2°19 | 28°55 | 12°27 | 13°41 | 15°59 | 11°12 | F 16 | |
| S 17 | 5 44 11 | 25°11'13 | 29°25 | 7°D16 | 17°3 | 1°9 | 22°38 | 25°8 | 16°11 | 2°17 | 28°55 | 12°22 | 13°38 | 16°6 | 11°12 | S 17 | |
| S 18 | 5 48 7 | 26°12'09 | 11♌56 | 7°25 | 18°16 | 1°51 | 22°32 | 25°7 | 16°13 | 2°16 | 28°55 | 12°16 | 13°35 | 16°13 | 11°11 | S 18 | |
| M19 | 5 52 4 | 27°13'06 | 24°15 | 7°43 | 19°29 | 2°32 | 22°27 | 25°6 | 16°15 | 2°14 | 28°55 | 12°7 | 13°31 | 16°19 | 11°11 | M19 | |
| T 20 | 5 56 1 | 28°14'04 | 6♌25 | 8°10 | 20°41 | 3°13 | 22°22 | 25°5 | 16°17 | 2°12 | 28°55 | 11°59 | 13°28 | 16°26 | 11°11 | T 20 | |
| W21 | 5 59 57 | 29°15'03 | 18°27 | 8°44 | 21°54 | 3°54 | 22°17 | 25°4 | 16°19 | 2°11 | 28°55 | 11°50 | 13°25 | 16°33 | 11°11 | W21 | |
| T 22 | 6 3 54 | 0♌16'03 | 0♌23 | 9°26 | 23°7 | 4°35 | 22°12 | 25°3 | 16°20 | 2°9 | 28°56 | 11°42 | 13°22 | 16°39 | 11°D11 | T 22 | |
| F 23 | 6 7 50 | 1°17'03 | 12°14 | 10°13 | 24°20 | 5°17 | 22°7 | 25°3 | 16°22 | 2°7 | 28°56 | 11°37 | 13°19 | 16°46 | 11°11 | F 23 | |
| S 24 | 6 11 47 | 2°18'04 | 24°2 | 11°5 | 25°33 | 5°58 | 22°2 | 25°2 | 16°23 | 2°6 | 28°56 | 11°33 | 13°16 | 16°53 | 11°11 | S 24 | |
| S 25 | 6 15 43 | 3°19'06 | 5♌49 | 12°2 | 26°46 | 6°39 | 21°58 | 25°2 | 16°25 | 2°4 | 28°56 | 11°D31 | 13°12 | 16°59 | 11°11 | S 25 | |
| M26 | 6 19 40 | 4°20'09 | 17°37 | 13°3 | 27°59 | 7°21 | 21°54 | 25°2 | 16°26 | 2°2 | 28°57 | 11°31 | 13°9 | 17°6 | 11°11 | M26 | |
| T 27 | 6 23 36 | 5°21'12 | 29°32 | 14°8 | 29°12 | 8°2 | 21°50 | 25°2 | 16°28 | 2°0 | 28°57 | 11°32 | 13°6 | 17°13 | 11°12 | T 27 | |
| W28 | 6 27 33 | 6°22'15 | 11♌35 | 15°16 | 0♌26 | 8°44 | 21°46 | 25°D2 | 16°29 | 1°59 | 28°57 | 11°34 | 13°3 | 17°19 | 11°12 | W28 | |
| T 29 | 6 31 30 | 7°23'19 | 23°53 | 16°27 | 1°39 | 9°25 | 21°42 | 25°2 | 16°30 | 1°57 | 28°58 | 11°36 | 13°0 | 17°26 | 11°12 | T 29 | |
| F 30 | 6 35 26 | 8°24'22 | 6°V29 | 17°40 | 2°52 | 10°7 | 21°39 | 25°2 | 16°32 | 1°55 | 28°58 | 11°R37 | 12°57 | 17°33 | 11°13 | F 30 | |
| S 31 | 6 39 23 | 9°25'26 | 19°V29 | 18°55 | 4♌6 | 10♌48 | 21°B36 | 25°V2 | 16°B33 | 1°54 | 28°59 | 11°B36 | 12°B53 | 17°B39 | 11°V13 | S 31 | |

Delta T = 17m34s

ASTRODIENST EPHEMERIS for the year 2558
geocentric

JANUARY 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|--------|-------|-------|--------|-------|-------|--------|------|-----|
| S 1 | 6 43 19 | 10☉26'31 | 2♃55 | 20♁12 | 5♁19 | 11♁30 | 21°R33 | 25°V 3 | 16♁34 | 1°R52 | 28♁59 | 11°R34 | 12♁50 | 17♃46 | 11°V14 | S 1 | |
| M 2 | 6 47 16 | 11°27'35 | 16°50 | 21°30 | 6°32 | 12°12 | 21♁30 | 25° 3 | 16°35 | 1♁50 | 29° 0 | 11♁31 | 12°47 | 17°53 | 11°14 | M 2 | |
| T 3 | 6 51 12 | 12°28'40 | 1♁14 | 22°50 | 7°46 | 12°53 | 21°27 | 25° 4 | 16°36 | 1°49 | 29° 0 | 11°27 | 12°44 | 17°59 | 11°15 | T 3 | |
| W 4 | 6 55 9 | 13°29'45 | 16° 3 | 24°12 | 9° 0 | 13°35 | 21°25 | 25° 5 | 16°37 | 1°47 | 29° 1 | 11°23 | 12°41 | 18° 6 | 11°15 | W 4 | |
| T 5 | 6 59 5 | 14°30'50 | 1♁10 | 25°34 | 10°13 | 14°17 | 21°23 | 25° 5 | 16°38 | 1°45 | 29° 1 | 11°19 | 12°37 | 18°13 | 11°16 | T 5 | |
| F 6 | 7 3 2 | 15°31'55 | 16°26 | 26°58 | 11°27 | 14°58 | 21°21 | 25° 6 | 16°39 | 1°44 | 29° 2 | 11°16 | 12°34 | 18°19 | 11°17 | F 6 | |
| S 7 | 7 6 59 | 16°33'01 | 1♁41 | 28°22 | 12°41 | 15°40 | 21°19 | 25° 7 | 16°40 | 1°42 | 29° 2 | 11°14 | 12°31 | 18°26 | 11°18 | S 7 | |
| S 8 | 7 10 55 | 17°34'06 | 16°44 | 29°47 | 13°54 | 16°22 | 21°17 | 25° 9 | 16°41 | 1°40 | 29° 3 | 11°D14 | 12°28 | 18°33 | 11°19 | S 8 | |
| M 9 | 7 14 52 | 18°35'12 | 1♁29 | 1♁13 | 15° 8 | 17° 4 | 21°16 | 25°10 | 16°41 | 1°39 | 29° 4 | 11°15 | 12°25 | 18°39 | 11°20 | M 9 | |
| T 10 | 7 18 48 | 19°36'19 | 15°49 | 2°40 | 16°22 | 17°46 | 21°15 | 25°11 | 16°42 | 1°37 | 29° 4 | 11°17 | 12°22 | 18°46 | 11°21 | T 10 | |
| W11 | 7 22 45 | 20°37'26 | 29°42 | 4° 7 | 17°36 | 18°28 | 21°14 | 25°13 | 16°42 | 1°36 | 29° 5 | 11°18 | 12°18 | 18°53 | 11°22 | W11 | |
| T 12 | 7 26 41 | 21°38'33 | 13♁ 9 | 5°35 | 18°50 | 19°10 | 21°13 | 25°14 | 16°43 | 1°34 | 29° 6 | 11°19 | 12°15 | 18°59 | 11°23 | T 12 | |
| F 13 | 7 30 38 | 22°39'40 | 26°12 | 7° 4 | 20° 4 | 19°52 | 21°12 | 25°16 | 16°43 | 1°33 | 29° 7 | 11°R19 | 12°12 | 19° 6 | 11°24 | F 13 | |
| S 14 | 7 34 34 | 23°40'48 | 8♁54 | 8°33 | 21°18 | 20°34 | 21°12 | 25°18 | 16°44 | 1°31 | 29° 7 | 11°18 | 12° 9 | 19°13 | 11°25 | S 14 | |
| S 15 | 7 38 31 | 24°41'56 | 21°18 | 10° 2 | 22°32 | 21°16 | 21°D12 | 25°20 | 16°44 | 1°29 | 29° 8 | 11°17 | 12° 6 | 19°19 | 11°26 | S 15 | |
| M16 | 7 42 28 | 25°43'04 | 3♁29 | 11°32 | 23°46 | 21°58 | 21°12 | 25°22 | 16°45 | 1°28 | 29° 9 | 11°15 | 12° 3 | 19°26 | 11°28 | M16 | |
| T 17 | 7 46 24 | 26°44'12 | 15°29 | 13° 3 | 25° 0 | 22°40 | 21°12 | 25°24 | 16°45 | 1°26 | 29°10 | 11°12 | 11°59 | 19°33 | 11°29 | T 17 | |
| W18 | 7 50 21 | 27°45'21 | 27°23 | 14°34 | 26°14 | 23°22 | 21°13 | 25°26 | 16°45 | 1°25 | 29°11 | 11°10 | 11°56 | 19°39 | 11°31 | W18 | |
| T 19 | 7 54 17 | 28°46'29 | 9♁13 | 16° 5 | 27°28 | 24° 5 | 21°13 | 25°29 | 16°45 | 1°23 | 29°11 | 11° 8 | 11°53 | 19°46 | 11°32 | T 19 | |
| F 20 | 7 58 14 | 29°47'37 | 21° 0 | 17°37 | 28°42 | 24°47 | 21°14 | 25°31 | 16°45 | 1°22 | 29°12 | 11° 7 | 11°50 | 19°53 | 11°34 | F 20 | |
| S 21 | 8 2 10 | 0♁48'45 | 2♁49 | 19° 9 | 29°56 | 25°29 | 21°15 | 25°34 | 16°R45 | 1°21 | 29°13 | 11° 6 | 11°47 | 19°59 | 11°35 | S 21 | |
| S 22 | 8 6 7 | 1°49'52 | 14°39 | 20°42 | 1♁11 | 26°12 | 21°17 | 25°36 | 16°45 | 1°19 | 29°14 | 11°D 6 | 11°43 | 20° 6 | 11°37 | S 22 | |
| M23 | 8 10 4 | 2°50'59 | 26°35 | 22°15 | 2°25 | 26°54 | 21°18 | 25°39 | 16°45 | 1°18 | 29°15 | 11° 6 | 11°40 | 20°12 | 11°38 | M23 | |
| T 24 | 8 14 0 | 3°52'06 | 8♁37 | 23°49 | 3°39 | 27°36 | 21°20 | 25°42 | 16°45 | 1°16 | 29°16 | 11° 7 | 11°37 | 20°19 | 11°40 | T 24 | |
| W25 | 8 17 57 | 4°53'12 | 20°48 | 25°23 | 4°53 | 28°19 | 21°22 | 25°45 | 16°45 | 1°15 | 29°17 | 11° 8 | 11°34 | 20°26 | 11°42 | W25 | |
| T 26 | 8 21 53 | 5°54'17 | 3°V12 | 26°58 | 6° 8 | 29° 1 | 21°24 | 25°48 | 16°44 | 1°14 | 29°18 | 11° 8 | 11°31 | 20°32 | 11°44 | T 26 | |
| F 27 | 8 25 50 | 6°55'22 | 15°51 | 28°33 | 7°22 | 29°44 | 21°26 | 25°51 | 16°44 | 1°12 | 29°19 | 11° 9 | 11°28 | 20°39 | 11°46 | F 27 | |
| S 28 | 8 29 46 | 7°56'26 | 28°49 | 0♁ 9 | 8°36 | 0♁26 | 21°29 | 25°54 | 16°44 | 1°11 | 29°20 | 11° 9 | 11°24 | 20°46 | 11°47 | S 28 | |
| S 29 | 8 33 43 | 8°57'29 | 12♁ 8 | 1°45 | 9°51 | 1° 9 | 21°32 | 25°58 | 16°43 | 1°10 | 29°21 | 11°R 9 | 11°21 | 20°52 | 11°49 | S 29 | |
| M30 | 8 37 39 | 9°58'31 | 25°51 | 3°22 | 11° 5 | 1°51 | 21°35 | 26° 1 | 16°43 | 1° 8 | 29°22 | 11° 9 | 11°18 | 20°59 | 11°51 | M30 | |
| T 31 | 8 41 36 | 10♁59'32 | 9♁58 | 5♁ 0 | 12♁19 | 2♁34 | 21°R38 | 26°V 5 | 16♁42 | 1♁ 7 | 29♁23 | 11°D 9 | 11♁15 | 21♁ 6 | 11°V53 | T 31 | |

Delta T = 17m34s

FEBRUARY 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|--------|-------|-------|--------|-------|-------|--------|------|-----|
| W 1 | 8 45 33 | 12♁ 0'32 | 24♁28 | 6♁38 | 13♁34 | 3♁17 | 21°R41 | 26°V 8 | 16°R42 | 1°R 6 | 29♁24 | 11♁ 9 | 11♁12 | 21♁12 | 11°V56 | W 1 | |
| T 2 | 8 49 29 | 13° 1'32 | 9♁18 | 8°17 | 14°48 | 3°59 | 21°45 | 26°12 | 16♁41 | 1♁ 5 | 29°26 | 11° 9 | 11° 9 | 21°19 | 11°58 | T 2 | |
| F 3 | 8 53 26 | 14° 2'30 | 24°21 | 9°56 | 16° 2 | 4°42 | 21°48 | 26°16 | 16°40 | 1° 4 | 29°27 | 11° 9 | 11° 5 | 21°26 | 12° 0 | F 3 | |
| S 4 | 8 57 22 | 15° 3'28 | 9♁30 | 11°36 | 17°17 | 5°25 | 21°52 | 26°20 | 16°40 | 1° 3 | 29°28 | 11°R10 | 11° 2 | 21°32 | 12° 2 | S 4 | |
| S 5 | 9 1 19 | 16° 4'24 | 24°34 | 13°16 | 18°31 | 6° 7 | 21°56 | 26°24 | 16°39 | 1° 1 | 29°29 | 11° 9 | 10°59 | 21°39 | 12° 4 | S 5 | |
| M 6 | 9 5 15 | 17° 5'20 | 9♁26 | 14°57 | 19°46 | 6°50 | 22° 1 | 26°28 | 16°38 | 1° 0 | 29°30 | 11° 9 | 10°56 | 21°46 | 12° 7 | M 6 | |
| T 7 | 9 9 12 | 18° 6'15 | 23°57 | 16°39 | 21° 0 | 7°33 | 22° 5 | 26°32 | 16°37 | 0°59 | 29°31 | 11° 8 | 10°53 | 21°52 | 12° 9 | T 7 | |
| W 8 | 9 13 8 | 19° 7'09 | 8♁ 3 | 18°22 | 22°15 | 8°16 | 22°10 | 26°36 | 16°36 | 0°58 | 29°33 | 11° 7 | 10°49 | 21°59 | 12°11 | W 8 | |
| T 9 | 9 17 5 | 20° 8'03 | 21°42 | 20° 5 | 23°29 | 8°59 | 22°14 | 26°41 | 16°35 | 0°57 | 29°34 | 11° 6 | 10°46 | 22° 6 | 12°14 | T 9 | |
| F 10 | 9 21 1 | 21° 8'56 | 4♁54 | 21°49 | 24°44 | 9°42 | 22°19 | 26°45 | 16°34 | 0°56 | 29°35 | 11° 6 | 10°43 | 22°12 | 12°16 | F 10 | |
| S 11 | 9 24 58 | 22° 9'48 | 17°41 | 23°33 | 25°58 | 10°25 | 22°25 | 26°50 | 16°33 | 0°55 | 29°36 | 11°D 5 | 10°40 | 22°19 | 12°19 | S 11 | |
| S 12 | 9 28 55 | 23°10'39 | 0♁ 7 | 25°19 | 27°13 | 11° 8 | 22°30 | 26°54 | 16°32 | 0°54 | 29°38 | 11° 5 | 10°37 | 22°26 | 12°21 | S 12 | |
| M13 | 9 32 51 | 24°11'30 | 12°16 | 27° 4 | 28°27 | 11°51 | 22°36 | 26°59 | 16°30 | 0°54 | 29°39 | 11° 6 | 10°34 | 22°32 | 12°24 | M13 | |
| T 14 | 9 36 48 | 25°12'20 | 24°14 | 28°51 | 29°42 | 12°34 | 22°41 | 27° 4 | 16°29 | 0°53 | 29°40 | 11° 7 | 10°30 | 22°39 | 12°26 | T 14 | |
| W15 | 9 40 44 | 26°13'09 | 6♁ 4 | 0♁38 | 0♁56 | 13°17 | 22°47 | 27° 9 | 16°28 | 0°52 | 29°42 | 11° 8 | 10°27 | 22°46 | 12°29 | W15 | |
| T 16 | 9 44 41 | 27°13'57 | 17°50 | 2°26 | 2°11 | 14° 0 | 22°53 | 27°14 | 16°26 | 0°51 | 29°43 | 11°10 | 10°24 | 22°52 | 12°32 | T 16 | |
| F 17 | 9 48 37 | 28°14'44 | 29°38 | 4°14 | 3°26 | 14°43 | 22°59 | 27°19 | 16°25 | 0°50 | 29°44 | 11°11 | 10°21 | 22°59 | 12°34 | F 17 | |
| S 18 | 9 52 34 | 29°15'30 | 11♁29 | 6° 2 | 4°40 | 15°27 | 23° 6 | 27°24 | 16°24 | 0°50 | 29°46 | 11°R11 | 10°18 | 23° 5 | 12°37 | S 18 | |
| S 19 | 9 56 30 | 0♁16'14 | 23°27 | 7°51 | 5°55 | 16°10 | 23°12 | 27°29 | 16°22 | 0°49 | 29°47 | 11°11 | 10°15 | 23°12 | 12°40 | S 19 | |
| M20 | 10 0 27 | 1°16'58 | 5♁32 | 9°40 | 7° 9 | 16°53 | 23°19 | 27°34 | 16°20 | 0°48 | 29°49 | 11° 9 | 10°11 | 23°19 | 12°43 | M20 | |
| T 21 | 10 4 24 | 2°17'40 | 17°48 | 11°29 | 8°24 | 17°36 | 23°26 | 27°39 | 16°19 | 0°48 | 29°50 | 11° 7 | 10° 8 | 23°25 | 12°46 | T 21 | |
| W22 | 10 8 20 | 3°18'20 | 0°V15 | 13°18 | 9°38 | 18°20 | 23°33 | 27°45 | 16°17 | 0°47 | 29°51 | 11° 3 | 10° 5 | 23°32 | 12°49 | W22 | |
| T 23 | 10 12 17 | 4°19'00 | 12°55 | 15° 7 | 10°53 | 19° 3 | 23°40 | 27°50 | 16°16 | 0°46 | 29°53 | 10°59 | 10° 2 | 23°39 | 12°51 | T 23 | |
| F 24 | 10 16 13 | 5°19'37 | 25°47 | 16°55 | 12° 8 | 19°47 | 23°48 | 27°56 | 16°14 | 0°46 | 29°54 | 10°55 | 9°59 | 23°45 | 12°54 | F 24 | |
| S 25 | 10 20 10 | 6°20'13 | 8♁54 | 18°43 | 13°22 | 20°30 | 23°55 | 28° 1 | 16°12 | 0°45 | 29°56 | 10°52 | 9°55 | 23°52 | 12°57 | S 25 | |
| S 26 | 10 24 6 | 7°20'47 | 22°16 | 20°29 | 14°37 | 21°13 | 24° 3 | 28° 7 | 16°10 | 0°45 | 29°57 | 10°50 | 9°52 | 23°59 | 13° 0 | S 26 | |
| M27 | 10 28 3 | 8°21'20 | 5♁54 | 22°14 | 15°51 | 21°57 | 24°11 | 28°13 | 16° 8 | 0°44 | 29°59 | 10°D49 | 9°49 | 24° 5 | 13° 3 | M27 | |
| T 28 | 10 31 59 | 9♁21'51 | 19♁49 | 23♁56 | 17♁ 6 | 22♁40 | 24♁18 | 28°V18 | 16♁ 7 | 0♁44 | 29♁59 | 10♁50 | 9♁46 | 24♁12 | 13°V 7 | T 28 | |

Delta T = 17m34s

ASTRODIENST EPHEMERIS for the year 2558

geocentric

MARCH 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|------|--------|------|-------|-------|------|
| W 1 | 10 35 56 | 10✎22'20 | 4☾ 1 | 25✎37 | 18♁21 | 23☾24 | 24☿27 | 28♃24 | 16°R 5 | 0°R44 | 0♃ 1 | 10♁51 | 9♁43 | 24☾19 | 13♃10 | W 1 |
| T 2 | 10 39 53 | 11°22'47 | 18°28 | 27°15 | 19°35 | 24° 7 | 24°35 | 28°30 | 16♁ 3 | 0☾43 | 0° 3 | 10°52 | 9°40 | 24°25 | 13°13 | T 2 |
| F 3 | 10 43 49 | 12°23'12 | 3♁ 6 | 28°49 | 20°50 | 24°51 | 24°43 | 28°36 | 16° 1 | 0°43 | 0° 4 | 10°54 | 9°36 | 24°32 | 13°16 | F 3 |
| S 4 | 10 47 46 | 13°23'35 | 17°52 | 0♃19 | 22° 4 | 25°35 | 24°52 | 28°42 | 15°59 | 0°43 | 0° 6 | 10°R54 | 9°33 | 24°39 | 13°19 | S 4 |
| S 5 | 10 51 42 | 14°23'57 | 2♃39 | 1°45 | 23°19 | 26°18 | 25° 0 | 28°48 | 15°57 | 0°42 | 0° 7 | 10°52 | 9°30 | 24°45 | 13°22 | S 5 |
| M 6 | 10 55 39 | 15°24'17 | 17°19 | 3° 5 | 24°33 | 27° 2 | 25° 9 | 28°54 | 15°54 | 0°42 | 0° 9 | 10°49 | 9°27 | 24°52 | 13°25 | M 6 |
| T 7 | 10 59 35 | 16°24'35 | 1♁46 | 4°20 | 25°48 | 27°46 | 25°18 | 29° 1 | 15°52 | 0°42 | 0°10 | 10°44 | 9°24 | 24°59 | 13°29 | T 7 |
| W 8 | 11 3 32 | 17°24'52 | 15°53 | 5°28 | 27° 3 | 28°29 | 25°27 | 29° 7 | 15°50 | 0°42 | 0°12 | 10°38 | 9°20 | 25° 5 | 13°32 | W 8 |
| T 9 | 11 7 28 | 18°25'07 | 29°37 | 6°29 | 28°17 | 29°13 | 25°36 | 29°13 | 15°48 | 0°42 | 0°13 | 10°32 | 9°17 | 25°12 | 13°35 | T 9 |
| F 10 | 11 11 25 | 19°25'21 | 12♃54 | 7°23 | 29°32 | 29°57 | 25°46 | 29°20 | 15°46 | 0°42 | 0°15 | 10°26 | 9°14 | 25°18 | 13°38 | F 10 |
| S 11 | 11 15 22 | 20°25'33 | 25°47 | 8° 8 | 0♃46 | 0♁41 | 25°55 | 29°26 | 15°43 | 0°42 | 0°17 | 10°22 | 9°11 | 25°25 | 13°42 | S 11 |
| S 12 | 11 19 18 | 21°25'43 | 8♁17 | 8°45 | 2° 1 | 1°24 | 26° 5 | 29°33 | 15°41 | 0°D42 | 0°18 | 10°19 | 9° 8 | 25°32 | 13°45 | S 12 |
| M13 | 11 23 15 | 22°25'53 | 20°30 | 9°13 | 3°15 | 2° 8 | 26°14 | 29°39 | 15°39 | 0°42 | 0°20 | 10°D18 | 9° 5 | 25°38 | 13°48 | M13 |
| T 14 | 11 27 11 | 23°26'00 | 2☾28 | 9°32 | 4°30 | 2°52 | 26°24 | 29°46 | 15°37 | 0°42 | 0°21 | 10°18 | 9° 1 | 25°45 | 13°52 | T 14 |
| W15 | 11 31 8 | 24°26'07 | 14°18 | 9°41 | 5°45 | 3°36 | 26°34 | 29°52 | 15°34 | 0°42 | 0°23 | 10°20 | 8°58 | 25°52 | 13°55 | W15 |
| T 16 | 11 35 4 | 25°26'11 | 26° 5 | 9°R41 | 6°59 | 4°20 | 26°44 | 29°59 | 15°32 | 0°42 | 0°24 | 10°21 | 8°55 | 25°58 | 13°59 | T 16 |
| F 17 | 11 39 1 | 26°26'14 | 7♁54 | 9°33 | 8°14 | 5° 4 | 26°54 | 0♁ 6 | 15°29 | 0°42 | 0°26 | 10°R22 | 8°52 | 26° 5 | 14° 2 | F 17 |
| S 18 | 11 42 57 | 27°26'16 | 19°49 | 9°15 | 9°28 | 5°48 | 27° 4 | 0°12 | 15°27 | 0°42 | 0°27 | 10°22 | 8°49 | 26°12 | 14° 5 | S 18 |
| S 19 | 11 46 54 | 28°26'15 | 1✎54 | 8°50 | 10°43 | 6°32 | 27°15 | 0°19 | 15°25 | 0°43 | 0°29 | 10°19 | 8°46 | 26°18 | 14° 9 | S 19 |
| M20 | 11 50 51 | 29°26'13 | 14°11 | 8°16 | 11°57 | 7°16 | 27°25 | 0°26 | 15°22 | 0°43 | 0°30 | 10°14 | 8°42 | 26°25 | 14°12 | M20 |
| T 21 | 11 54 47 | 0♃26'09 | 26°43 | 7°36 | 13°12 | 8° 0 | 27°36 | 0°33 | 15°20 | 0°43 | 0°32 | 10° 7 | 8°39 | 26°32 | 14°16 | T 21 |
| W22 | 11 58 44 | 1°26'03 | 9♃29 | 6°51 | 14°27 | 8°44 | 27°46 | 0°40 | 15°17 | 0°44 | 0°34 | 9°59 | 8°36 | 26°38 | 14°19 | W22 |
| T 23 | 12 2 40 | 2°25'55 | 22°30 | 6° 1 | 15°41 | 9°28 | 27°57 | 0°47 | 15°15 | 0°44 | 0°35 | 9°49 | 8°33 | 26°45 | 14°23 | T 23 |
| F 24 | 12 6 37 | 3°25'46 | 5♁45 | 5° 7 | 16°56 | 10°13 | 28° 8 | 0°54 | 15°12 | 0°44 | 0°37 | 9°40 | 8°30 | 26°52 | 14°26 | F 24 |
| S 25 | 12 10 33 | 4°25'34 | 19°12 | 4°11 | 18°10 | 10°57 | 28°19 | 1° 1 | 15°10 | 0°45 | 0°38 | 9°31 | 8°26 | 26°58 | 14°30 | S 25 |
| S 26 | 12 14 30 | 5°25'20 | 2♃50 | 3°15 | 19°25 | 11°41 | 28°30 | 1° 8 | 15° 7 | 0°45 | 0°40 | 9°25 | 8°23 | 27° 5 | 14°33 | S 26 |
| M27 | 12 18 26 | 6°25'04 | 16°37 | 2°18 | 20°39 | 12°25 | 28°41 | 1°15 | 15° 4 | 0°46 | 0°41 | 9°21 | 8°20 | 27°11 | 14°37 | M27 |
| T 28 | 12 22 23 | 7°24'45 | 0☾32 | 1°23 | 21°54 | 13° 9 | 28°53 | 1°22 | 15° 2 | 0°46 | 0°43 | 9°19 | 8°17 | 27°18 | 14°40 | T 28 |
| W29 | 12 26 19 | 8°24'25 | 14°35 | 0°31 | 23° 8 | 13°53 | 29° 4 | 1°29 | 14°59 | 0°47 | 0°44 | 9°D19 | 8°14 | 27°25 | 14°44 | W29 |
| T 30 | 12 30 16 | 9°24'02 | 28°45 | 29♃42 | 24°23 | 14°38 | 29°15 | 1°36 | 14°57 | 0°47 | 0°46 | 9°20 | 8°11 | 27°31 | 14°47 | T 30 |
| F 31 | 12 34 13 | 10♃23'37 | 13♁ 1 | 28♃58 | 25♃37 | 15♁22 | 29♁27 | 1♁44 | 14♁54 | 0♁48 | 0♃48 | 9°R20 | 8♁ 7 | 27☾38 | 14♃51 | F 31 |

Delta T = 17m34s

APRIL 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|--------|------|------|-------|------|-------|-------|------|
| S 1 | 12 38 9 | 11♃23'09 | 27♁21 | 28°R18 | 26♃51 | 16♁ 6 | 29♁38 | 1♁51 | 14°R51 | 0☾49 | 0♃49 | 9°R18 | 8♁ 4 | 27☾45 | 14♃54 | S 1 |
| S 2 | 12 42 6 | 12°22'39 | 11♃41 | 27♃43 | 28° 6 | 16°50 | 29°50 | 1°58 | 14°49 | 0°49 | 0°51 | 9♁15 | 8° 1 | 27°51 | 14°58 | S 2 |
| M 3 | 12 46 2 | 13°22'07 | 25°57 | 27°15 | 29°20 | 17°35 | 0♁ 2 | 2° 6 | 14°46 | 0°50 | 0°52 | 9° 8 | 7°58 | 27°58 | 15° 1 | M 3 |
| T 4 | 12 49 59 | 14°21'33 | 10♁ 4 | 26°52 | 0♃35 | 18°19 | 0°14 | 2°13 | 14°44 | 0°51 | 0°54 | 8°59 | 7°55 | 28° 5 | 15° 5 | T 4 |
| W 5 | 12 53 55 | 15°20'57 | 23°57 | 26°35 | 1°49 | 19° 3 | 0°26 | 2°20 | 14°41 | 0°52 | 0°55 | 8°49 | 7°51 | 28°11 | 15° 9 | W 5 |
| T 6 | 12 57 52 | 16°20'19 | 7♃31 | 26°23 | 3° 4 | 19°48 | 0°38 | 2°28 | 14°38 | 0°53 | 0°57 | 8°37 | 7°48 | 28°18 | 15°12 | T 6 |
| F 7 | 13 1 48 | 17°19'39 | 20°45 | 26°D18 | 4°18 | 20°32 | 0°50 | 2°35 | 14°36 | 0°53 | 0°58 | 8°27 | 7°45 | 28°25 | 15°16 | F 7 |
| S 8 | 13 5 45 | 18°18'57 | 3♁37 | 26°19 | 5°32 | 21°17 | 1° 2 | 2°42 | 14°33 | 0°54 | 1° 0 | 8°17 | 7°42 | 28°31 | 15°19 | S 8 |
| S 9 | 13 9 42 | 19°18'14 | 16° 8 | 26°25 | 6°47 | 22° 1 | 1°14 | 2°50 | 14°31 | 0°55 | 1° 1 | 8°10 | 7°39 | 28°38 | 15°23 | S 9 |
| M10 | 13 13 38 | 20°17'29 | 28°21 | 26°36 | 8° 1 | 22°46 | 1°27 | 2°57 | 14°28 | 0°56 | 1° 3 | 8° 6 | 7°36 | 28°44 | 15°26 | M10 |
| T 11 | 13 17 35 | 21°16'41 | 10☾21 | 26°53 | 9°15 | 23°30 | 1°39 | 3° 5 | 14°25 | 0°57 | 1° 4 | 8° 4 | 7°32 | 28°51 | 15°30 | T 11 |
| W12 | 13 21 31 | 22°15'53 | 22°12 | 27°14 | 10°30 | 24°14 | 1°51 | 3°12 | 14°23 | 0°58 | 1° 6 | 8°D 3 | 7°29 | 28°58 | 15°33 | W12 |
| T 13 | 13 25 28 | 23°15'02 | 4♁ 0 | 27°40 | 11°44 | 24°59 | 2° 4 | 3°20 | 14°20 | 0°59 | 1° 7 | 8°R 3 | 7°26 | 29° 4 | 15°37 | T 13 |
| F 14 | 13 29 24 | 24°14'10 | 15°50 | 28°11 | 12°58 | 25°43 | 2°17 | 3°27 | 14°18 | 1° 0 | 1° 9 | 8° 3 | 7°23 | 29°11 | 15°40 | F 14 |
| S 15 | 13 33 21 | 25°13'16 | 27°48 | 28°46 | 14°13 | 26°28 | 2°29 | 3°35 | 14°15 | 1° 2 | 1°10 | 8° 1 | 7°20 | 29°18 | 15°44 | S 15 |
| S 16 | 13 37 17 | 26°12'20 | 9♃58 | 29°24 | 15°27 | 27°12 | 2°42 | 3°42 | 14°13 | 1° 3 | 1°11 | 7°58 | 7°17 | 29°24 | 15°47 | S 16 |
| M17 | 13 41 14 | 27°11'22 | 22°24 | 0♃ 7 | 16°41 | 27°57 | 2°55 | 3°50 | 14°10 | 1° 4 | 1°13 | 7°51 | 7°13 | 29°31 | 15°51 | M17 |
| T 18 | 13 45 11 | 28°10'23 | 5♃ 9 | 0°53 | 17°56 | 28°42 | 3° 7 | 3°57 | 14° 8 | 1° 5 | 1°14 | 7°42 | 7°10 | 29°38 | 15°54 | T 18 |
| W19 | 13 49 7 | 29° 9'21 | 18°13 | 1°43 | 19°10 | 29°26 | 3°20 | 4° 5 | 14° 5 | 1° 6 | 1°16 | 7°31 | 7° 7 | 29°44 | 15°58 | W19 |
| T 20 | 13 53 4 | 0♁ 8'18 | 1♁36 | 2°36 | 20°24 | 0♃11 | 3°33 | 4°12 | 14° 3 | 1° 8 | 1°17 | 7°18 | 7° 4 | 29°51 | 16° 1 | T 20 |
| F 21 | 13 57 0 | 1° 7'12 | 15°16 | 3°32 | 21°39 | 0°55 | 3°46 | 4°20 | 14° 0 | 1° 9 | 1°18 | 7° 6 | 7° 1 | 29°58 | 16° 5 | F 21 |
| S 22 | 14 0 57 | 2° 6'05 | 29° 8 | 4°30 | 22°53 | 1°40 | 3°59 | 4°28 | 13°58 | 1°10 | 1°20 | 6°54 | 6°57 | 0♁ 4 | 16° 8 | S 22 |
| S 23 | 14 4 53 | 3° 4'56 | 13♃11 | 5°32 | 24° 7 | 2°24 | 4°12 | 4°35 | 13°55 | 1°11 | 1°21 | 6°45 | 6°54 | 0°11 | 16°12 | S 23 |
| M24 | 14 8 50 | 4° 3'44 | 27°17 | 6°36 | 25°21 | 3° 9 | 4°26 | 4°43 | 13°53 | 1°13 | 1°23 | 6°39 | 6°51 | 0°18 | 16°15 | M24 |
| T 25 | 14 12 46 | 5° 2'31 | 11☾26 | 7°43 | 26°35 | 3°53 | 4°39 | 4°50 | 13°50 | 1°14 | 1°24 | 6°36 | 6°48 | 0°24 | 16°18 | T 25 |
| W26 | 14 16 43 | 6° 1'15 | 25°34 | 8°53 | 27°50 | 4°38 | 4°52 | 4°58 | 13°48 | 1°16 | 1°25 | 6°35 | 6°45 | 0°31 | 16°22 | W26 |
| T 27 | 14 20 40 | 6°59'56 | 9♁41 | 10° 4 | 29° 4 | 5°23 | 5° 5 | 5° 6 | 13°46 | 1°17 | 1°27 | 6°35 | 6°42 | 0°37 | 16°25 | T 27 |
| F 28 | 14 24 36 | 7°58'36 | 23°45 | 11°18 | 0♁18 | 6° 7 | 5°19 | 5°13 | 13°43 | 1°19 | 1°28 | 6°34 | 6°38 | 0°44 | 16°29 | F 28 |
| S 29 | 14 28 33 | 8°57'13 | 7♃45 | 12°34 | 1°32 | 6°52 | 5°32 | 5°21 | 13°41 | 1°20 | 1°29 | 6°32 | 6°35 | 0°51 | 16°32 | S 29 |
| S 30 | 14 32 29 | 9♁55'48 | 21♃42 | 13♃52 | 2♁46 | 7♃36 | 5♃46 | 5♁28 | 13♁39 | 1♁22 | 1♃30 | 6♁28 | 6♁32 | 0♁57 | 16♃35 | S 30 |

Delta T = 17m35s

ASTRODIENST EPHEMERIS for the year 2558
geocentric

MAY 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|--------|------|------|-------|------|------|-------|------|---|---|---|---|---|-----|
| M 1 | 14 36 26 | 10♌54'21 | 5♊31 | 15♍13 | 4♄ 0 | 8♌21 | 5♏19 | 5♌36 | 13°R37 | 1♑23 | 1♍32 | 6°R21 | 6♏29 | 1♌4 | 16♍39 | M 1 | | | | | | |
| T 2 | 14 40 22 | 11°52'52 | 19°12 | 16°35 | 5°15 | 9° 5 | 6°13 | 5°43 | 13♌34 | 1°25 | 1°33 | 6♏11 | 6°26 | 1°11 | 16°42 | T 2 | | | | | | |
| W 3 | 14 44 19 | 12°51'21 | 2♌42 | 18° 0 | 6°29 | 9°50 | 6°26 | 5°51 | 13°32 | 1°26 | 1°34 | 5°59 | 6°23 | 1°17 | 16°45 | W 3 | | | | | | |
| T 4 | 14 48 15 | 13°49'48 | 15°57 | 19°26 | 7°43 | 10°35 | 6°40 | 5°58 | 13°30 | 1°28 | 1°35 | 5°46 | 6°19 | 1°24 | 16°48 | T 4 | | | | | | |
| F 5 | 14 52 12 | 14°48'13 | 28°56 | 20°54 | 8°57 | 11°19 | 6°53 | 6° 6 | 13°28 | 1°30 | 1°37 | 5°34 | 6°16 | 1°31 | 16°52 | F 5 | | | | | | |
| S 6 | 14 56 8 | 15°46'37 | 11♌38 | 22°24 | 10°11 | 12° 4 | 7° 7 | 6°13 | 13°26 | 1°31 | 1°38 | 5°23 | 6°13 | 1°37 | 16°55 | S 6 | | | | | | |
| S 7 | 15 0 5 | 16°44'59 | 24° 3 | 23°56 | 11°25 | 12°48 | 7°21 | 6°21 | 13°24 | 1°33 | 1°39 | 5°15 | 6°10 | 1°44 | 16°58 | S 7 | | | | | | |
| M 8 | 15 4 2 | 17°43'19 | 6♌14 | 25°30 | 12°39 | 13°33 | 7°34 | 6°28 | 13°22 | 1°35 | 1°40 | 5° 9 | 6° 7 | 1°51 | 17° 1 | M 8 | | | | | | |
| T 9 | 15 7 58 | 18°41'37 | 18°12 | 27° 6 | 13°53 | 14°17 | 7°48 | 6°36 | 13°20 | 1°36 | 1°41 | 5° 6 | 6° 3 | 1°57 | 17° 4 | T 9 | | | | | | |
| W10 | 15 11 55 | 19°39'55 | 0♌3 | 28°43 | 15° 7 | 15° 2 | 8° 2 | 6°43 | 13°18 | 1°38 | 1°42 | 5°D 4 | 6° 0 | 2° 4 | 17° 7 | W10 | | | | | | |
| T 11 | 15 15 51 | 20°38'10 | 11°51 | 0♌23 | 16°21 | 15°47 | 8°16 | 6°51 | 13°16 | 1°40 | 1°43 | 5° 4 | 5°57 | 2°10 | 17°10 | T 11 | | | | | | |
| F 12 | 15 19 48 | 21°36'24 | 23°42 | 2° 4 | 17°35 | 16°31 | 8°29 | 6°58 | 13°14 | 1°42 | 1°45 | 5°R 5 | 5°54 | 2°17 | 17°14 | F 12 | | | | | | |
| S 13 | 15 23 44 | 22°34'37 | 5♌40 | 3°47 | 18°49 | 17°16 | 8°43 | 7° 6 | 13°12 | 1°43 | 1°46 | 5° 4 | 5°51 | 2°24 | 17°17 | S 13 | | | | | | |
| S 14 | 15 27 41 | 23°32'48 | 17°52 | 5°32 | 20° 3 | 18° 0 | 8°57 | 7°13 | 13°11 | 1°45 | 1°47 | 5° 1 | 5°48 | 2°30 | 17°20 | S 14 | | | | | | |
| M15 | 15 31 37 | 24°30'58 | 0♍22 | 7°19 | 21°17 | 18°45 | 9°11 | 7°21 | 13° 9 | 1°47 | 1°48 | 4°56 | 5°44 | 2°37 | 17°23 | M15 | | | | | | |
| T 16 | 15 35 34 | 25°29'06 | 13°13 | 9° 8 | 22°31 | 19°29 | 9°25 | 7°28 | 13° 7 | 1°49 | 1°49 | 4°49 | 5°41 | 2°44 | 17°25 | T 16 | | | | | | |
| W17 | 15 39 31 | 26°27'13 | 26°28 | 10°59 | 23°45 | 20°14 | 9°39 | 7°35 | 13° 5 | 1°51 | 1°50 | 4°40 | 5°38 | 2°50 | 17°28 | W17 | | | | | | |
| T 18 | 15 43 27 | 27°25'18 | 10♌6 | 12°51 | 24°59 | 20°58 | 9°53 | 7°42 | 13° 4 | 1°53 | 1°51 | 4°29 | 5°35 | 2°57 | 17°31 | T 18 | | | | | | |
| F 19 | 15 47 24 | 28°23'22 | 24° 6 | 14°45 | 26°13 | 21°43 | 10° 7 | 7°50 | 13° 2 | 1°55 | 1°52 | 4°19 | 5°32 | 3° 4 | 17°34 | F 19 | | | | | | |
| S 20 | 15 51 20 | 29°21'24 | 8♏22 | 16°42 | 27°27 | 22°27 | 10°21 | 7°57 | 13° 1 | 1°57 | 1°53 | 4° 9 | 5°29 | 3°10 | 17°37 | S 20 | | | | | | |
| S 21 | 15 55 17 | 0♏19'25 | 22°50 | 18°40 | 28°41 | 23°11 | 10°35 | 8° 4 | 12°59 | 1°59 | 1°54 | 4° 1 | 5°25 | 3°17 | 17°40 | S 21 | | | | | | |
| M22 | 15 59 13 | 1°17'24 | 7♏22 | 20°39 | 29°55 | 23°56 | 10°49 | 8°11 | 12°58 | 2° 1 | 1°55 | 3°56 | 5°22 | 3°24 | 17°43 | M22 | | | | | | |
| T 23 | 16 3 10 | 2°15'22 | 21°53 | 22°41 | 1♏9 | 24°40 | 11° 3 | 8°19 | 12°56 | 2° 3 | 1°55 | 3°54 | 5°19 | 3°30 | 17°45 | T 23 | | | | | | |
| W24 | 16 7 7 | 3°13'18 | 6♏17 | 24°44 | 2°23 | 25°24 | 11°17 | 8°26 | 12°55 | 2° 5 | 1°56 | 3°D53 | 5°16 | 3°37 | 17°48 | W24 | | | | | | |
| T 25 | 16 11 3 | 4°11'12 | 20°33 | 26°49 | 3°37 | 26° 9 | 11°31 | 8°33 | 12°53 | 2° 7 | 1°57 | 3°54 | 5°13 | 3°44 | 17°51 | T 25 | | | | | | |
| F 26 | 16 15 0 | 5° 9'04 | 4♏38 | 28°55 | 4°50 | 26°53 | 11°45 | 8°40 | 12°52 | 2° 9 | 1°58 | 3°R54 | 5° 9 | 3°50 | 17°53 | F 26 | | | | | | |
| S 27 | 16 18 56 | 6° 6'54 | 18°32 | 1♏3 | 6° 4 | 27°37 | 11°59 | 8°47 | 12°51 | 2°11 | 1°59 | 3°53 | 5° 6 | 3°57 | 17°56 | S 27 | | | | | | |
| S 28 | 16 22 53 | 7° 4'42 | 2♏14 | 3°12 | 7°18 | 28°21 | 12°13 | 8°54 | 12°50 | 2°13 | 2° 0 | 3°51 | 5° 3 | 4° 3 | 17°59 | S 28 | | | | | | |
| M29 | 16 26 49 | 8° 2'29 | 15°44 | 5°22 | 8°32 | 29° 6 | 12°27 | 9° 1 | 12°49 | 2°15 | 2° 0 | 3°46 | 5° 0 | 4°10 | 18° 1 | M29 | | | | | | |
| T 30 | 16 30 46 | 9° 0'15 | 29° 2 | 7°33 | 9°46 | 29°50 | 12°41 | 9° 8 | 12°48 | 2°17 | 2° 1 | 3°39 | 4°57 | 4°17 | 18° 4 | T 30 | | | | | | |
| W31 | 16 34 42 | 9♏57'59 | 12♏8 | 9♏44 | 11♏0 | 0♏34 | 12♏56 | 9♏15 | 12♏46 | 2♏19 | 2♏2 | 3♏30 | 4♏54 | 4♏23 | 18♏6 | W31 | | | | | | |

Delta T = 17m35s

JUNE 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|-------|--------|------|-------|-------|------|------|--------|------|---|---|---|---|---|-----|
| T 1 | 16 38 39 | 10♏55'41 | 25♏1 | 11♏56 | 12♏14 | 1°R18 | 13♏10 | 9♏22 | 12°R45 | 2♏21 | 2♏3 | 3°R21 | 4♏50 | 4♏30 | 18°R 9 | T 1 | | | | | | |
| F 2 | 16 42 35 | 11°53'22 | 7♏41 | 14° 7 | 13°27 | 2° 2 | 13°24 | 9°29 | 12♏45 | 2°23 | 2° 3 | 3♏12 | 4°47 | 4°37 | 18°11 | F 2 | | | | | | |
| S 3 | 16 46 32 | 12°51'02 | 20° 7 | 16°19 | 14°41 | 2°46 | 13°38 | 9°35 | 12°44 | 2°25 | 2° 4 | 3° 4 | 4°44 | 4°43 | 18°13 | S 3 | | | | | | |
| S 4 | 16 50 29 | 13°48'41 | 2♏22 | 18°30 | 15°55 | 3°30 | 13°52 | 9°42 | 12°43 | 2°27 | 2° 5 | 2°58 | 4°41 | 4°50 | 18°16 | S 4 | | | | | | |
| M 5 | 16 54 25 | 14°46'18 | 14°25 | 20°41 | 17° 9 | 4°14 | 14° 6 | 9°49 | 12°42 | 2°30 | 2° 5 | 2°54 | 4°38 | 4°57 | 18°18 | M 5 | | | | | | |
| T 6 | 16 58 22 | 15°43'55 | 26°19 | 22°50 | 18°23 | 4°58 | 14°20 | 9°55 | 12°41 | 2°32 | 2° 6 | 2°52 | 4°35 | 5° 3 | 18°20 | T 6 | | | | | | |
| W 7 | 17 2 18 | 16°41'30 | 8♏9 | 24°58 | 19°36 | 5°42 | 14°34 | 10° 2 | 12°41 | 2°34 | 2° 6 | 2°D52 | 4°31 | 5°10 | 18°22 | W 7 | | | | | | |
| T 8 | 17 6 15 | 17°39'05 | 19°56 | 27° 5 | 20°50 | 6°26 | 14°48 | 10° 9 | 12°40 | 2°36 | 2° 7 | 2°53 | 4°28 | 5°17 | 18°24 | T 8 | | | | | | |
| F 9 | 17 10 11 | 18°36'38 | 1♏47 | 29°10 | 22° 4 | 7°10 | 15° 2 | 10°15 | 12°39 | 2°38 | 2° 7 | 2°55 | 4°25 | 5°23 | 18°27 | F 9 | | | | | | |
| S 10 | 17 14 8 | 19°34'11 | 13°45 | 1♏13 | 23°18 | 7°53 | 15°16 | 10°22 | 12°39 | 2°40 | 2° 8 | 2°56 | 4°22 | 5°30 | 18°29 | S 10 | | | | | | |
| S 11 | 17 18 5 | 20°31'43 | 25°56 | 3°14 | 24°31 | 8°37 | 15°30 | 10°28 | 12°38 | 2°43 | 2° 9 | 2°R56 | 4°19 | 5°36 | 18°31 | S 11 | | | | | | |
| M12 | 17 22 1 | 21°29'14 | 8♏26 | 5°13 | 25°45 | 9°21 | 15°45 | 10°34 | 12°38 | 2°45 | 2° 9 | 2°54 | 4°15 | 5°43 | 18°33 | M12 | | | | | | |
| T 13 | 17 25 58 | 22°26'45 | 21°17 | 7° 9 | 26°59 | 10° 4 | 15°59 | 10°41 | 12°37 | 2°47 | 2° 9 | 2°51 | 4°12 | 5°50 | 18°35 | T 13 | | | | | | |
| W14 | 17 29 54 | 23°24'14 | 4♏34 | 9° 4 | 28°13 | 10°48 | 16°13 | 10°47 | 12°37 | 2°49 | 2°10 | 2°47 | 4° 9 | 5°56 | 18°37 | W14 | | | | | | |
| T 15 | 17 33 51 | 24°21'43 | 18°17 | 10°55 | 29°26 | 11°31 | 16°27 | 10°53 | 12°37 | 2°52 | 2°10 | 2°41 | 4° 6 | 6° 3 | 18°38 | T 15 | | | | | | |
| F 16 | 17 37 47 | 25°19'12 | 2♏26 | 12°45 | 0♏40 | 12°15 | 16°41 | 10°59 | 12°37 | 2°54 | 2°11 | 2°35 | 4° 3 | 6°10 | 18°40 | F 16 | | | | | | |
| S 17 | 17 41 44 | 26°16'40 | 16°56 | 14°31 | 1°54 | 12°58 | 16°55 | 11° 6 | 12°36 | 2°56 | 2°11 | 2°30 | 4° 0 | 6°16 | 18°42 | S 17 | | | | | | |
| S 18 | 17 45 40 | 27°14'06 | 1♏42 | 16°16 | 3° 8 | 13°42 | 17° 9 | 11°12 | 12°36 | 2°58 | 2°11 | 2°26 | 3°56 | 6°23 | 18°44 | S 18 | | | | | | |
| M19 | 17 49 37 | 28°11'33 | 16°36 | 17°57 | 4°21 | 14°25 | 17°23 | 11°18 | 12°36 | 3° 0 | 2°12 | 2°23 | 3°53 | 6°30 | 18°45 | M19 | | | | | | |
| T 20 | 17 53 34 | 29° 8'58 | 1♏29 | 19°36 | 5°35 | 15° 8 | 17°37 | 11°24 | 12°D36 | 3° 3 | 2°12 | 2°D22 | 3°50 | 6°36 | 18°47 | T 20 | | | | | | |
| W21 | 17 57 30 | 0♏6'22 | 16°16 | 21°13 | 6°49 | 15°51 | 17°50 | 11°29 | 12°36 | 3° 5 | 2°12 | 2°23 | 3°47 | 6°43 | 18°49 | W21 | | | | | | |
| T 22 | 18 1 27 | 1° 3'45 | 0♏49 | 22°46 | 8° 3 | 16°34 | 18° 4 | 11°35 | 12°36 | 3° 7 | 2°12 | 2°24 | 3°44 | 6°50 | 18°50 | T 22 | | | | | | |
| F 23 | 18 5 23 | 2° 1'07 | 15° 5 | 24°17 | 9°16 | 17°18 | 18°18 | 11°41 | 12°36 | 3° 9 | 2°13 | 2°26 | 3°41 | 6°56 | 18°52 | F 23 | | | | | | |
| S 24 | 18 9 20 | 2°58'28 | 29° 3 | 25°45 | 10°30 | 18° 0 | 18°32 | 11°47 | 12°37 | 3°12 | 2°13 | 2°R26 | 3°37 | 7° 3 | 18°53 | S 24 | | | | | | |
| S 25 | 18 13 16 | 3°55'49 | 12♏41 | 27°11 | 11°44 | 18°43 | 18°46 | 11°52 | 12°37 | 3°14 | 2°13 | 2°26 | 3°34 | 7° 9 | 18°55 | S 25 | | | | | | |
| M26 | 18 17 13 | 4°53'08 | 26° 1 | 28°34 | 12°57 | 19°26 | 19° 0 | 11°58 | 12°37 | 3°16 | 2°13 | 2°25 | 3°31 | 7°16 | 18°56 | M26 | | | | | | |
| T 27 | 18 21 9 | 5°50'26 | 9♏5 | 29°54 | 14°11 | 20° 9 | 19°13 | 12° 3 | 12°38 | 3°18 | 2°13 | 2°22 | 3°28 | 7°23 | 18°57 | T 27 | | | | | | |
| W28 | 18 25 6 | 6°47'44 | 21°53 | 1♏11 | 15°25 | 20°52 | 19°27 | 12° 9 | 12°38 | 3°21 | 2°13 | 2°19 | 3°25 | 7°29 | 18°58 | W28 | | | | | | |
| T 29 | 18 29 3 | 7°45'01 | 4♏27 | 2°25 | 16°39 | 21°34 | 19°41 | 12°14 | 12°38 | 3°23 | 2°14 | 2°15 | 3°21 | 7°36 | 19° 0 | T 29 | | | | | | |
| F 30 | 18 32 59 | 8♏42'17 | 16♏49 | 3♏36 | 17♏52 | 22°R17 | 19♏55 | 12♏20 | 12♏39 | 3♏25 | 2°R14 | 2♏11 | 3♏18 | 7♏43 | 19°R 1 | F 30 | | | | | | |

Delta T = 17m35s

ASTRODIENST EPHEMERIS for the year 2558
geocentric

JULY 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ | ♅ | ♆ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|--------|------|---|---|-----|
| S 1 | 18 36 56 | 9♄39'33 | 29♂ 1 | 4♂44 | 19♄6 | 22♂59 | 20♂ 8 | 12♂25 | 12♂40 | 3♄27 | 2♂14 | 2°R 8 | 3♂15 | 7♄49 | 19♂ 2 | S 1 | | | |
| S 2 | 18 40 52 | 10°36'49 | 11♂ 3 | 5°49 | 20°19 | 23°41 | 20°22 | 12°30 | 12°40 | 3°30 | 2°R14 | 2♂ 5 | 3°12 | 7°56 | 19° 3 | S 2 | | | |
| M 3 | 18 44 49 | 11°34'04 | 22°59 | 6°51 | 21°33 | 24°24 | 20°35 | 12°35 | 12°41 | 3°32 | 2°14 | 2° 4 | 3° 9 | 8° 3 | 19° 4 | M 3 | | | |
| T 4 | 18 48 45 | 12°31'18 | 4♄49 | 7°50 | 22°47 | 25° 6 | 20°49 | 12°40 | 12°42 | 3°34 | 2°14 | 2°D 4 | 3° 6 | 8° 9 | 19° 5 | T 4 | | | |
| W 5 | 18 52 42 | 13°28'33 | 16°37 | 8°46 | 24° 0 | 25°48 | 21° 2 | 12°45 | 12°42 | 3°36 | 2°14 | 2° 5 | 3° 2 | 8°16 | 19° 6 | W 5 | | | |
| T 6 | 18 56 38 | 14°25'47 | 28°25 | 9°38 | 25°14 | 26°30 | 21°16 | 12°50 | 12°43 | 3°38 | 2°13 | 2° 6 | 2°59 | 8°23 | 19° 7 | T 6 | | | |
| F 7 | 19 0 35 | 15°23'01 | 10♂16 | 10°26 | 26°28 | 27°12 | 21°29 | 12°55 | 12°44 | 3°41 | 2°13 | 2° 7 | 2°56 | 8°29 | 19° 8 | F 7 | | | |
| S 8 | 19 4 32 | 16°20'15 | 22°16 | 11°11 | 27°41 | 27°54 | 21°43 | 13° 0 | 12°45 | 3°43 | 2°13 | 2° 8 | 2°53 | 8°36 | 19° 8 | S 8 | | | |
| S 9 | 19 8 28 | 17°17'29 | 4♂27 | 11°52 | 28°55 | 28°36 | 21°56 | 13° 4 | 12°46 | 3°45 | 2°13 | 2° 9 | 2°50 | 8°43 | 19° 9 | S 9 | | | |
| M10 | 19 12 25 | 18°14'43 | 16°55 | 12°29 | 0♂ 9 | 29°17 | 22° 9 | 13° 9 | 12°47 | 3°47 | 2°13 | 2°R10 | 2°46 | 8°49 | 19°10 | M10 | | | |
| T 11 | 19 16 21 | 19°11'57 | 29°44 | 13° 2 | 1°22 | 29°59 | 22°23 | 13°13 | 12°48 | 3°49 | 2°13 | 2°10 | 2°43 | 8°56 | 19°10 | T 11 | | | |
| W12 | 19 20 18 | 20° 9'12 | 12♂57 | 13°31 | 2°36 | 0♂40 | 22°36 | 13°18 | 12°49 | 3°52 | 2°13 | 2° 9 | 2°40 | 9° 2 | 19°11 | W12 | | | |
| T 13 | 19 24 14 | 21° 6'27 | 26°36 | 13°56 | 3°49 | 1°22 | 22°49 | 13°22 | 12°50 | 3°54 | 2°12 | 2° 8 | 2°37 | 9° 9 | 19°11 | T 13 | | | |
| F 14 | 19 28 11 | 22° 3'42 | 10♂12 | 14°16 | 5° 3 | 2° 3 | 23° 2 | 13°26 | 12°52 | 3°56 | 2°12 | 2° 6 | 2°34 | 9°16 | 19°12 | F 14 | | | |
| S 15 | 19 32 7 | 23° 0'57 | 25°12 | 14°32 | 6°17 | 2°44 | 23°15 | 13°31 | 12°53 | 3°58 | 2°12 | 2° 5 | 2°31 | 9°22 | 19°12 | S 15 | | | |
| S 16 | 19 36 4 | 23°58'12 | 10♄ 4 | 14°44 | 7°30 | 3°25 | 23°28 | 13°35 | 12°54 | 4° 0 | 2°11 | 2° 5 | 2°27 | 9°29 | 19°13 | S 16 | | | |
| M17 | 19 40 1 | 24°55'28 | 25° 8 | 14°50 | 8°44 | 4° 6 | 23°41 | 13°39 | 12°56 | 4° 2 | 2°11 | 2°D 4 | 2°24 | 9°36 | 19°13 | M17 | | | |
| T 18 | 19 43 57 | 25°52'43 | 10♂17 | 14°R52 | 9°57 | 4°47 | 23°54 | 13°43 | 12°57 | 4° 4 | 2°11 | 2° 4 | 2°21 | 9°42 | 19°13 | T 18 | | | |
| W19 | 19 47 54 | 26°49'59 | 25°21 | 14°49 | 11°11 | 5°27 | 24° 7 | 13°47 | 12°59 | 4° 6 | 2°10 | 2° 5 | 2°18 | 9°49 | 19°13 | W19 | | | |
| T 20 | 19 51 50 | 27°47'14 | 10♂12 | 14°42 | 12°25 | 6° 8 | 24°20 | 13°50 | 13° 0 | 4° 9 | 2°10 | 2° 5 | 2°15 | 9°56 | 19°13 | T 20 | | | |
| F 21 | 19 55 47 | 28°44'29 | 24°43 | 14°30 | 13°38 | 6°48 | 24°33 | 13°54 | 13° 2 | 4°11 | 2°10 | 2° 5 | 2°12 | 10° 2 | 19°13 | F 21 | | | |
| S 22 | 19 59 43 | 29°41'45 | 8♄52 | 14°13 | 14°52 | 7°28 | 24°45 | 13°58 | 13° 3 | 4°13 | 2° 9 | 2° 5 | 2° 8 | 10° 9 | 19°R14 | S 22 | | | |
| S 23 | 20 3 40 | 0♂39'00 | 22°36 | 13°52 | 16° 5 | 8° 8 | 24°58 | 14° 1 | 13° 5 | 4°15 | 2° 9 | 2° 6 | 2° 5 | 10°16 | 19°14 | S 23 | | | |
| M24 | 20 7 36 | 1°36'15 | 5♂56 | 13°27 | 17°19 | 8°48 | 25°11 | 14° 5 | 13° 7 | 4°17 | 2° 8 | 2° 6 | 2° 2 | 10°22 | 19°13 | M24 | | | |
| T 25 | 20 11 33 | 2°33'30 | 18°53 | 12°58 | 18°33 | 9°28 | 25°23 | 14° 8 | 13° 9 | 4°19 | 2° 8 | 2° 6 | 1°59 | 10°29 | 19°13 | T 25 | | | |
| W26 | 20 15 30 | 3°30'46 | 1♂32 | 12°25 | 19°46 | 10° 8 | 25°36 | 14°11 | 13°10 | 4°21 | 2° 7 | 2° 6 | 1°56 | 10°36 | 19°13 | W26 | | | |
| T 27 | 20 19 26 | 4°28'01 | 13°54 | 11°50 | 21° 0 | 10°48 | 25°48 | 14°14 | 13°12 | 4°23 | 2° 7 | 2° 6 | 1°52 | 10°42 | 19°13 | T 27 | | | |
| F 28 | 20 23 23 | 5°25'17 | 26° 4 | 11°11 | 22°13 | 11°27 | 26° 0 | 14°17 | 13°14 | 4°25 | 2° 6 | 2° 6 | 1°49 | 10°49 | 19°13 | F 28 | | | |
| S 29 | 20 27 19 | 6°22'33 | 8♂ 4 | 10°32 | 23°27 | 12° 6 | 26°13 | 14°20 | 13°16 | 4°27 | 2° 6 | 2° 7 | 1°46 | 10°55 | 19°12 | S 29 | | | |
| S 30 | 20 31 16 | 7°19'49 | 19°58 | 9°50 | 24°40 | 12°45 | 26°25 | 14°23 | 13°18 | 4°29 | 2° 5 | 2° 7 | 1°43 | 11° 2 | 19°12 | S 30 | | | |
| M31 | 20 35 12 | 8♂17'06 | 1♄47 | 9♂ 9 | 25♂54 | 13♂24 | 26♂37 | 14♂26 | 13♄20 | 4♄31 | 2♂ 4 | 2°R 7 | 1♂40 | 11♄ 9 | 19♂11 | M31 | | | |

Delta T = 17m36s

AUGUST 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ | ♅ | ♆ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|------|-------|-------|------|-------|--------|------|---|---|-----|
| T 1 | 20 39 9 | 9♂14'23 | 13♄35 | 8°R27 | 27♂ 7 | 14♂ 3 | 26♂49 | 14♂29 | 13♄22 | 4♄33 | 2°R 4 | 2°R 7 | 1♂37 | 11♄15 | 19°R11 | T 1 | | | |
| W 2 | 20 43 5 | 10°11'41 | 25°23 | 7♂46 | 28°21 | 14°42 | 27° 1 | 14°31 | 13°25 | 4°35 | 2♂ 3 | 2♂ 6 | 1°33 | 11°22 | 19♂10 | W 2 | | | |
| T 3 | 20 47 2 | 11° 8'59 | 7♂15 | 7° 7 | 29°34 | 15°20 | 27°13 | 14°34 | 13°27 | 4°36 | 2° 2 | 2° 5 | 1°30 | 11°29 | 19°10 | T 3 | | | |
| F 4 | 20 50 59 | 12° 6'18 | 19°12 | 6°31 | 0♂47 | 15°59 | 27°25 | 14°36 | 13°29 | 4°38 | 2° 2 | 2° 4 | 1°27 | 11°35 | 19° 9 | F 4 | | | |
| S 5 | 20 54 55 | 13° 3'38 | 1♂16 | 5°57 | 2° 1 | 16°37 | 27°36 | 14°38 | 13°31 | 4°40 | 2° 1 | 2° 3 | 1°24 | 11°42 | 19° 9 | S 5 | | | |
| S 6 | 20 58 52 | 14° 0'58 | 13°32 | 5°27 | 3°14 | 17°15 | 27°48 | 14°41 | 13°34 | 4°42 | 2° 0 | 2° 1 | 1°21 | 11°49 | 19° 8 | S 6 | | | |
| M 7 | 21 2 48 | 14°58'20 | 26° 2 | 5° 2 | 4°28 | 17°53 | 28° 0 | 14°43 | 13°36 | 4°44 | 2° 0 | 2° 0 | 1°18 | 11°55 | 19° 7 | M 7 | | | |
| T 8 | 21 6 45 | 15°55'42 | 8♂50 | 4°41 | 5°41 | 18°30 | 28°11 | 14°45 | 13°38 | 4°46 | 1°59 | 1°59 | 1°14 | 12° 2 | 19° 6 | T 8 | | | |
| W 9 | 21 10 41 | 16°53'06 | 21°58 | 4°26 | 6°55 | 19° 8 | 28°23 | 14°47 | 13°41 | 4°47 | 1°58 | 1°D59 | 1°11 | 12° 9 | 19° 5 | W 9 | | | |
| T 10 | 21 14 38 | 17°50'31 | 5♂29 | 4°16 | 8° 8 | 19°45 | 28°34 | 14°49 | 13°43 | 4°49 | 1°57 | 2° 0 | 1° 8 | 12°15 | 19° 4 | T 10 | | | |
| F 11 | 21 18 34 | 18°47'57 | 19°25 | 4°D13 | 9°21 | 20°22 | 28°45 | 14°50 | 13°46 | 4°51 | 1°56 | 2° 1 | 1° 5 | 12°22 | 19° 3 | F 11 | | | |
| S 12 | 21 22 31 | 19°45'24 | 3♄45 | 4°15 | 10°35 | 20°59 | 28°56 | 14°52 | 13°48 | 4°53 | 1°56 | 2° 2 | 1° 2 | 12°29 | 19° 2 | S 12 | | | |
| S 13 | 21 26 28 | 20°42'52 | 18°28 | 4°24 | 11°48 | 21°36 | 29° 8 | 14°53 | 13°51 | 4°54 | 1°55 | 2° 3 | 0°58 | 12°35 | 19° 1 | S 13 | | | |
| M14 | 21 30 24 | 21°40'21 | 3♂28 | 4°39 | 13° 2 | 22°12 | 29°19 | 14°55 | 13°54 | 4°56 | 1°54 | 2°R 3 | 0°55 | 12°42 | 19° 0 | M14 | | | |
| T 15 | 21 34 21 | 22°37'52 | 18°37 | 5° 1 | 14°15 | 22°48 | 29°29 | 14°56 | 13°56 | 4°58 | 1°53 | 2° 3 | 0°52 | 12°48 | 18°59 | T 15 | | | |
| W16 | 21 38 17 | 23°35'23 | 3♂47 | 5°30 | 15°28 | 23°24 | 29°40 | 14°57 | 13°59 | 4°59 | 1°52 | 2° 1 | 0°49 | 12°55 | 18°58 | W16 | | | |
| T 17 | 21 42 14 | 24°32'55 | 18°48 | 6° 6 | 16°42 | 24° 0 | 29°51 | 14°58 | 14° 2 | 5° 1 | 1°51 | 1°59 | 0°46 | 13° 2 | 18°56 | T 17 | | | |
| F 18 | 21 46 10 | 25°30'28 | 3♄32 | 6°48 | 17°55 | 24°36 | 0♄ 2 | 14°59 | 14° 4 | 5° 2 | 1°50 | 1°56 | 0°43 | 13° 8 | 18°55 | F 18 | | | |
| S 19 | 21 50 7 | 26°28'02 | 17°51 | 7°36 | 19° 8 | 25°11 | 0°12 | 15° 0 | 14° 7 | 5° 4 | 1°49 | 1°52 | 0°39 | 13°15 | 18°54 | S 19 | | | |
| S 20 | 21 54 3 | 27°25'36 | 1♂44 | 8°31 | 20°21 | 25°46 | 0°23 | 15° 1 | 14°10 | 5° 5 | 1°48 | 1°50 | 0°36 | 13°22 | 18°52 | S 20 | | | |
| M21 | 21 58 0 | 28°23'12 | 15° 8 | 9°32 | 21°35 | 26°21 | 0°33 | 15° 2 | 14°13 | 5° 7 | 1°47 | 1°48 | 0°33 | 13°28 | 18°51 | M21 | | | |
| T 22 | 22 1 57 | 29°20'48 | 28° 7 | 10°39 | 22°48 | 26°55 | 0°43 | 15° 2 | 14°16 | 5° 8 | 1°46 | 1°D47 | 0°30 | 13°35 | 18°49 | T 22 | | | |
| W23 | 22 5 53 | 0♂18'25 | 10♂43 | 11°52 | 24° 1 | 27°30 | 0°53 | 15° 3 | 14°19 | 5°10 | 1°45 | 1°48 | 0°27 | 13°42 | 18°48 | W23 | | | |
| T 24 | 22 9 50 | 1°16'04 | 23° 1 | 13°11 | 25°14 | 28° 4 | 1° 3 | 15° 3 | 14°22 | 5°11 | 1°44 | 1°49 | 0°24 | 13°48 | 18°46 | T 24 | | | |
| F 25 | 22 13 46 | 2°13'43 | 5♂ 4 | 14°35 | 26°28 | 28°38 | 1°13 | 15° 3 | 14°25 | 5°13 | 1°43 | 1°51 | 0°20 | 13°55 | 18°45 | F 25 | | | |
| S 26 | 22 17 43 | 3°11'23 | 16°59 | 16° 4 | 27°41 | 29°11 | 1°23 | 15° 3 | 14°28 | 5°14 | 1°42 | 1°52 | 0°17 | 14° 2 | 18°43 | S 26 | | | |
| S 27 | 22 21 39 | 4° 9'04 | 28°47 | 17°37 | 28°54 | 29°45 | 1°33 | 15°R 3 | 14°31 | 5°15 | 1°41 | 1°R53 | 0°14 | 14° 8 | 18°41 | S 27 | | | |
| M28 | 22 25 36 | 5° 6'47 | 10♄35 | 19°15 | 0♂ 7 | 0♂18 | 1°42 | 15° 3 | 14°34 | 5°17 | 1°40 | 1°53 | 0°11 | 14°15 | 18°39 | M28 | | | |
| T 29 | 22 29 32 | 6° 4'30 | 22°23 | 20°57 | 1°20 | 0°50 | 1°52 | 15° 3 | 14°37 | 5°18 | 1°39 | 1°51 | 0° 8 | 14°22 | 18°38 | T 29 | | | |
| W30 | 22 33 29 | 7° 2'15 | 4♂16 | 22°43 | 2°33 | 1°23 | 2° 1 | 15° 3 | 14°41 | 5°19 | 1°38 | 1°47 | 0° 4 | 14°28 | 18°36 | W30 | | | |
| T 31 | 22 37 26 | 8♂ 0'01 | 16♂15 | 24♂31 | 3♄47 | 1♂55 | 2♄10 | 15♂ 3 | 14♄44 | 5♄21 | 1♂37 | 1♂42 | 0♂ 1 | 14♄35 | 18♂34 | T 31 | | | |

Delta T = 17m36s

ASTRODIENST EPHEMERIS for the year 2558
geocentric

SEPTEMBER 2558

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|------|--------|-------|------|-------|-------|-------|-------|--------|------|
| F 1 | 22 41 22 | 8♐57'48 | 28♈21 | 26♊22 | 5♊ 0 | 2♈27 | 2♄19 | 15°R 2 | 14♊47 | 5♄22 | 1°R36 | 1°R36 | 29♄58 | 14♌41 | 18°R32 | F 1 |
| S 2 | 22 45 19 | 9°55'37 | 10♑37 | 28°15 | 6°13 | 2°59 | 2°28 | 15♌ 2 | 14°50 | 5°23 | 1♑35 | 1♊29 | 29°55 | 14°48 | 18♑30 | S 2 |
| S 3 | 22 49 15 | 10°53'28 | 23° 3 | 0♐11 | 7°26 | 3°30 | 2°37 | 15° 1 | 14°53 | 5°24 | 1°34 | 1°23 | 29°52 | 14°55 | 18°28 | S 3 |
| M 4 | 22 53 12 | 11°51'20 | 5♉42 | 2° 7 | 8°39 | 4° 1 | 2°46 | 15° 0 | 14°57 | 5°25 | 1°32 | 1°17 | 29°49 | 15° 1 | 18°26 | M 4 |
| T 5 | 22 57 8 | 12°49'14 | 18°35 | 4° 4 | 9°52 | 4°31 | 2°54 | 14°59 | 15° 0 | 5°26 | 1°31 | 1°13 | 29°45 | 15° 8 | 18°24 | T 5 |
| W 6 | 23 1 5 | 13°47'10 | 1♈44 | 6° 2 | 11° 5 | 5° 2 | 3° 3 | 14°58 | 15° 3 | 5°28 | 1°30 | 1°10 | 29°42 | 15°15 | 18°22 | W 6 |
| T 7 | 23 5 1 | 14°45'07 | 15°10 | 8° 1 | 12°18 | 5°32 | 3°11 | 14°57 | 15° 7 | 5°29 | 1°29 | 1°D 9 | 29°39 | 15°21 | 18°20 | T 7 |
| F 8 | 23 8 58 | 15°43'07 | 28°56 | 9°59 | 13°31 | 6° 1 | 3°19 | 14°56 | 15°10 | 5°30 | 1°28 | 1°10 | 29°36 | 15°28 | 18°18 | F 8 |
| S 9 | 23 12 55 | 16°41'08 | 13♄ 3 | 11°58 | 14°44 | 6°31 | 3°27 | 14°55 | 15°14 | 5°31 | 1°27 | 1°11 | 29°33 | 15°35 | 18°15 | S 9 |
| S 10 | 23 16 51 | 17°39'11 | 27°29 | 13°56 | 15°56 | 7° 0 | 3°35 | 14°53 | 15°17 | 5°32 | 1°26 | 1°R12 | 29°29 | 15°41 | 18°13 | S 10 |
| M11 | 23 20 48 | 18°37'16 | 12♊13 | 15°53 | 17° 9 | 7°28 | 3°43 | 14°52 | 15°21 | 5°32 | 1°24 | 1°12 | 29°26 | 15°48 | 18°11 | M11 |
| T 12 | 23 24 44 | 19°35'23 | 27° 8 | 17°50 | 18°22 | 7°56 | 3°51 | 14°50 | 15°24 | 5°33 | 1°23 | 1° 9 | 29°23 | 15°55 | 18° 9 | T 12 |
| W13 | 23 28 41 | 20°33'32 | 12♍ 8 | 19°46 | 19°35 | 8°24 | 3°58 | 14°48 | 15°28 | 5°34 | 1°22 | 1° 5 | 29°20 | 16° 1 | 18° 6 | W13 |
| T 14 | 23 32 37 | 21°31'42 | 27° 5 | 21°41 | 20°48 | 8°51 | 4° 6 | 14°47 | 15°31 | 5°35 | 1°21 | 0°58 | 29°17 | 16° 8 | 18° 4 | T 14 |
| F 15 | 23 36 34 | 22°29'54 | 11♉48 | 23°36 | 22° 1 | 9°18 | 4°13 | 14°45 | 15°35 | 5°36 | 1°20 | 0°50 | 29°14 | 16°15 | 18° 2 | F 15 |
| S 16 | 23 40 30 | 23°28'07 | 26°11 | 25°29 | 23°14 | 9°45 | 4°20 | 14°43 | 15°38 | 5°37 | 1°18 | 0°42 | 29°10 | 16°21 | 17°59 | S 16 |
| S 17 | 23 44 27 | 24°26'22 | 10♌ 9 | 27°21 | 24°26 | 10°11 | 4°27 | 14°41 | 15°42 | 5°37 | 1°17 | 0°35 | 29° 7 | 16°28 | 17°57 | S 17 |
| M18 | 23 48 23 | 25°24'39 | 23°38 | 29°12 | 25°39 | 10°36 | 4°34 | 14°38 | 15°45 | 5°38 | 1°16 | 0°28 | 29° 4 | 16°35 | 17°54 | M18 |
| T 19 | 23 52 20 | 26°22'57 | 6♌40 | 1♉ 2 | 26°52 | 11° 2 | 4°40 | 14°36 | 15°49 | 5°39 | 1°15 | 0°24 | 29° 1 | 16°41 | 17°52 | T 19 |
| W20 | 23 56 17 | 27°21'16 | 19°18 | 2°50 | 28° 5 | 11°26 | 4°47 | 14°34 | 15°53 | 5°39 | 1°14 | 0°22 | 28°58 | 16°48 | 17°49 | W20 |
| T 21 | 0 0 13 | 28°19'38 | 1♄36 | 4°38 | 29°17 | 11°51 | 4°53 | 14°31 | 15°56 | 5°40 | 1°12 | 0°D22 | 28°55 | 16°54 | 17°47 | T 21 |
| F 22 | 0 4 10 | 29°18'00 | 13°38 | 6°25 | 0♎30 | 12°14 | 4°59 | 14°29 | 16° 0 | 5°41 | 1°11 | 0°23 | 28°51 | 17° 1 | 17°44 | F 22 |
| S 23 | 0 8 6 | 0♏16'24 | 25°31 | 8°10 | 1°43 | 12°38 | 5° 5 | 14°26 | 16° 4 | 5°41 | 1°10 | 0°R24 | 28°48 | 17° 8 | 17°42 | S 23 |
| S 24 | 0 12 3 | 1°14'50 | 7♌18 | 9°54 | 2°55 | 13° 1 | 5°11 | 14°23 | 16° 7 | 5°42 | 1° 9 | 0°23 | 28°45 | 17°14 | 17°39 | S 24 |
| M25 | 0 15 59 | 2°13'18 | 19° 6 | 11°38 | 4° 8 | 13°23 | 5°17 | 14°20 | 16°11 | 5°42 | 1° 8 | 0°21 | 28°42 | 17°21 | 17°37 | M25 |
| T 26 | 0 19 56 | 3°11'47 | 0♐58 | 13°20 | 5°20 | 13°45 | 5°22 | 14°18 | 16°15 | 5°42 | 1° 6 | 0°17 | 28°39 | 17°28 | 17°34 | T 26 |
| W27 | 0 23 52 | 4°10'17 | 12°57 | 15° 1 | 6°33 | 14° 6 | 5°28 | 14°14 | 16°19 | 5°43 | 1° 5 | 0°10 | 28°35 | 17°34 | 17°31 | W27 |
| T 28 | 0 27 49 | 5° 8'50 | 25° 6 | 16°41 | 7°45 | 14°27 | 5°33 | 14°11 | 16°22 | 5°43 | 1° 4 | 0° 1 | 28°32 | 17°41 | 17°29 | T 28 |
| F 29 | 0 31 46 | 6° 7'24 | 7♑26 | 18°20 | 8°58 | 14°47 | 5°38 | 14° 8 | 16°26 | 5°44 | 1° 3 | 29♄50 | 28°29 | 17°48 | 17°26 | F 29 |
| S 30 | 0 35 42 | 7♋ 6'00 | 19♑57 | 19♋58 | 10♌10 | 15♈ 7 | 5♄43 | 14♌ 5 | 16♊30 | 5♄44 | 1♑ 1 | 29♄38 | 28♄26 | 17♌54 | 17♑24 | S 30 |

Delta T = 17m36s

OCTOBER 2558

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|--------|-------|-------|-------|--------|-------|-------|--------|------|
| S 1 | 0 39 39 | 8♏ 4'39 | 2♃41 | 21♋35 | 11♌23 | 15♈26 | 5♄48 | 14°R 2 | 16♊34 | 5♄44 | 1°R 0 | 29°R26 | 28♄23 | 18♌ 1 | 17°R21 | S 1 |
| M 2 | 0 43 35 | 9° 3'19 | 15°36 | 23°11 | 12°35 | 15°44 | 5°52 | 13♌58 | 16°37 | 5°44 | 0♑59 | 29♄16 | 28°20 | 18° 8 | 17°R18 | M 2 |
| T 3 | 0 47 32 | 10° 2'01 | 28°44 | 24°47 | 13°47 | 16° 2 | 5°56 | 13°55 | 16°41 | 5°45 | 0°58 | 29° 7 | 28°16 | 18°14 | 17°16 | T 3 |
| W 4 | 0 51 28 | 11° 0'46 | 12♈ 2 | 26°21 | 15° 0 | 16°19 | 6° 0 | 13°51 | 16°45 | 5°45 | 0°57 | 29° 2 | 28°13 | 18°21 | 17°13 | W 4 |
| T 5 | 0 55 25 | 11°59'33 | 25°33 | 27°54 | 16°12 | 16°36 | 6° 4 | 13°48 | 16°49 | 5°45 | 0°55 | 28°59 | 28°10 | 18°28 | 17°10 | T 5 |
| F 6 | 0 59 21 | 12°58'22 | 9♄17 | 29°26 | 17°24 | 16°52 | 6° 8 | 13°44 | 16°52 | 5°45 | 0°54 | 28°D58 | 28° 7 | 18°34 | 17° 7 | F 6 |
| S 7 | 1 3 18 | 13°57'13 | 23°14 | 0♎58 | 18°36 | 17° 8 | 6°12 | 13°40 | 16°56 | 5°45 | 0°53 | 28°R58 | 28° 4 | 18°41 | 17° 5 | S 7 |
| S 8 | 1 7 15 | 14°56'07 | 7♊25 | 2°28 | 19°49 | 17°22 | 6°15 | 13°36 | 17° 0 | 5°45 | 0°52 | 28°58 | 28° 1 | 18°48 | 17° 2 | S 8 |
| M 9 | 1 11 11 | 15°55'03 | 21°49 | 3°58 | 21° 1 | 17°36 | 6°18 | 13°32 | 17° 4 | 5°R45 | 0°51 | 28°56 | 27°57 | 18°54 | 16°59 | M 9 |
| T 10 | 1 15 8 | 16°54'01 | 6♐22 | 5°27 | 22°13 | 17°50 | 6°22 | 13°28 | 17° 8 | 5°45 | 0°50 | 28°52 | 27°54 | 19° 1 | 16°57 | T 10 |
| W11 | 1 19 4 | 17°53'01 | 21° 0 | 6°55 | 23°25 | 18° 2 | 6°24 | 13°24 | 17°11 | 5°45 | 0°48 | 28°45 | 27°51 | 19° 8 | 16°54 | W11 |
| T 12 | 1 23 1 | 18°52'04 | 5♎38 | 8°22 | 24°37 | 18°14 | 6°27 | 13°20 | 17°15 | 5°45 | 0°47 | 28°36 | 27°48 | 19°14 | 16°51 | T 12 |
| F 13 | 1 26 57 | 19°51'08 | 20° 6 | 9°48 | 25°49 | 18°25 | 6°30 | 13°16 | 17°19 | 5°45 | 0°46 | 28°24 | 27°45 | 19°21 | 16°48 | F 13 |
| S 14 | 1 30 54 | 20°50'15 | 4♌20 | 11°13 | 27° 1 | 18°36 | 6°32 | 13°12 | 17°23 | 5°45 | 0°45 | 28°12 | 27°41 | 19°27 | 16°46 | S 14 |
| S 15 | 1 34 50 | 21°49'23 | 18°12 | 12°37 | 28°13 | 18°46 | 6°34 | 13° 8 | 17°27 | 5°45 | 0°44 | 28° 1 | 27°38 | 19°34 | 16°43 | S 15 |
| M16 | 1 38 47 | 22°48'34 | 1♌40 | 14° 0 | 29°25 | 18°54 | 6°36 | 13° 3 | 17°30 | 5°44 | 0°43 | 27°51 | 27°35 | 19°41 | 16°40 | M16 |
| T 17 | 1 42 43 | 23°47'46 | 14°42 | 15°22 | 0♎37 | 19° 3 | 6°37 | 12°59 | 17°34 | 5°44 | 0°42 | 27°44 | 27°32 | 19°47 | 16°38 | T 17 |
| W18 | 1 46 40 | 24°47'00 | 27°21 | 16°43 | 1°49 | 19°10 | 6°39 | 12°55 | 17°38 | 5°44 | 0°41 | 27°39 | 27°29 | 19°54 | 16°35 | W18 |
| T 19 | 1 50 37 | 25°46'16 | 9♄40 | 18° 2 | 3° 1 | 19°16 | 6°40 | 12°50 | 17°42 | 5°43 | 0°39 | 27°37 | 27°26 | 20° 1 | 16°32 | T 19 |
| F 20 | 1 54 33 | 26°45'34 | 21°44 | 19°21 | 4°13 | 19°22 | 6°41 | 12°46 | 17°45 | 5°43 | 0°38 | 27°36 | 27°22 | 20° 7 | 16°30 | F 20 |
| S 21 | 1 58 30 | 27°44'53 | 3♌37 | 20°38 | 5°24 | 19°27 | 6°42 | 12°41 | 17°49 | 5°43 | 0°37 | 27°36 | 27°19 | 20°14 | 16°27 | S 21 |
| S 22 | 2 2 26 | 28°44'14 | 15°25 | 21°54 | 6°36 | 19°31 | 6°43 | 12°37 | 17°53 | 5°42 | 0°36 | 27°36 | 27°16 | 20°21 | 16°24 | S 22 |
| M23 | 2 6 23 | 29°43'37 | 27°14 | 23° 9 | 7°48 | 19°34 | 6°43 | 12°32 | 17°57 | 5°42 | 0°35 | 27°34 | 27°13 | 20°27 | 16°22 | M23 |
| T 24 | 2 10 19 | 0♎43'02 | 9♈ 9 | 24°22 | 8°59 | 19°37 | 6°44 | 12°27 | 18° 0 | 5°41 | 0°34 | 27°29 | 27°10 | 20°34 | 16°19 | T 24 |
| W25 | 2 14 16 | 1°42'28 | 21°14 | 25°33 | 10°11 | 19°38 | 6°R44 | 12°23 | 18° 4 | 5°41 | 0°33 | 27°21 | 27° 6 | 20°41 | 16°16 | W25 |
| T 26 | 2 18 12 | 2°41'56 | 3♑32 | 26°43 | 11°23 | 19°R39 | 6°44 | 12°18 | 18° 8 | 5°40 | 0°32 | 27°11 | 27° 3 | 20°47 | 16°14 | T 26 |
| F 27 | 2 22 9 | 3°41'26 | 16° 5 | 27°51 | 12°34 | 19°39 | 6°43 | 12°13 | 18°12 | 5°40 | 0°31 | 26°59 | 27° 0 | 20°54 | 16°11 | F 27 |
| S 28 | 2 26 6 | 4°40'58 | 28°53 | 28°56 | 13°45 | 19°38 | 6°43 | 12° 9 | 18°15 | 5°39 | 0°30 | 26°46 | 26°57 | 21° 1 | 16° 9 | S 28 |
| S 29 | 2 30 2 | 5°40'32 | 11♋58 | 29°59 | 14°57 | 19°36 | 6°42 | 12° 4 | 18°19 | 5°38 | 0°29 | 26°33 | 26°54 | 21° 7 | 16° 6 | S 29 |
| M30 | 2 33 59 | 6°40'08 | 25°15 | 1♎ 0 | 16° 8 | 19°33 | 6°41 | 11°59 | 18°23 | 5°38 | 0°28 | 26°21 | 26°51 | 21°14 | 16° 4 | M30 |
| T 31 | 2 37 55 | 7♌39'46 | 8♈45 | 1♎58 | 17♎19 | 19♈29 | 6♄40 | 11♋55 | 18♊26 | 5♄37 | 0♑27 | 26♄12 | 26♄47 | 21♌21 | 16♑ 1 | T 31 |

Delta T = 17m37s

ASTRODIENST EPHEMERIS for the year 2558
geocentric

NOVEMBER 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♃ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|--------|-------|--------|-------|-------|-------|--------|-------|-------|--------|------|
| W 1 | 2 41 52 | 8♁39'26 | 22♁24 | 2♂53 | 18♂31 | 19°R24 | 6°R39 | 11°R50 | 18♁30 | 5°R36 | 0°R26 | 26°R 5 | 26♁44 | 21♁27 | 15°R59 | W 1 |
| T 2 | 2 45 48 | 9°39'09 | 6♁12 | 3°44 | 19°42 | 19♁19 | 6♁38 | 11♁45 | 18°34 | 5♁36 | 0°Y26 | 26♁ 1 | 26°41 | 21°34 | 15°Y56 | T 2 |
| F 3 | 2 49 45 | 10°38'53 | 20° 5 | 4°32 | 20°53 | 19°12 | 6°36 | 11°40 | 18°37 | 5°35 | 0°25 | 26°D 0 | 26°38 | 21°41 | 15°54 | F 3 |
| S 4 | 2 53 41 | 11°38'40 | 4♁ 5 | 5°15 | 22° 4 | 19° 5 | 6°34 | 11°35 | 18°41 | 5°34 | 0°24 | 26° 0 | 26°35 | 21°47 | 15°52 | S 4 |
| S 5 | 2 57 38 | 12°38'29 | 18° 9 | 5°54 | 23°15 | 18°57 | 6°32 | 11°31 | 18°44 | 5°33 | 0°23 | 26°R 0 | 26°32 | 21°54 | 15°49 | S 5 |
| M 6 | 3 1 35 | 13°38'21 | 2♁18 | 6°27 | 24°26 | 18°48 | 6°30 | 11°26 | 18°48 | 5°32 | 0°22 | 25°59 | 26°28 | 22° 1 | 15°47 | M 6 |
| T 7 | 3 5 31 | 14°38'14 | 16°31 | 6°55 | 25°37 | 18°38 | 6°27 | 11°21 | 18°51 | 5°31 | 0°21 | 25°55 | 26°25 | 22° 7 | 15°45 | T 7 |
| W 8 | 3 9 28 | 15°38'10 | 0♁44 | 7°17 | 26°48 | 18°27 | 6°24 | 11°16 | 18°55 | 5°30 | 0°20 | 25°49 | 26°22 | 22°14 | 15°42 | W 8 |
| T 9 | 3 13 24 | 16°38'07 | 14°55 | 7°32 | 27°59 | 18°15 | 6°21 | 11°11 | 18°58 | 5°29 | 0°20 | 25°40 | 26°19 | 22°21 | 15°40 | T 9 |
| F 10 | 3 17 21 | 17°38'07 | 28°58 | 7°R39 | 29° 9 | 18° 2 | 6°18 | 11° 7 | 19° 2 | 5°28 | 0°19 | 25°30 | 26°16 | 22°27 | 15°38 | F 10 |
| S 11 | 3 21 17 | 18°38'09 | 12♁49 | 7°38 | 0♁20 | 17°49 | 6°15 | 11° 2 | 19° 5 | 5°27 | 0°18 | 25°18 | 26°12 | 22°34 | 15°36 | S 11 |
| S 12 | 3 25 14 | 19°38'13 | 26°24 | 7°28 | 1°30 | 17°35 | 6°12 | 10°57 | 19° 9 | 5°26 | 0°17 | 25° 7 | 26° 9 | 22°41 | 15°33 | S 12 |
| M13 | 3 29 10 | 20°38'18 | 9♂40 | 7° 9 | 2°41 | 17°20 | 6° 8 | 10°53 | 19°12 | 5°25 | 0°17 | 24°58 | 26° 6 | 22°47 | 15°31 | M13 |
| T 14 | 3 33 7 | 21°38'25 | 22°36 | 6°41 | 3°51 | 17° 4 | 6° 4 | 10°48 | 19°15 | 5°24 | 0°16 | 24°51 | 26° 3 | 22°54 | 15°29 | T 14 |
| W15 | 3 37 4 | 22°38'34 | 5♁11 | 6° 2 | 5° 2 | 16°48 | 6° 0 | 10°43 | 19°19 | 5°23 | 0°15 | 24°46 | 26° 0 | 23° 1 | 15°27 | W15 |
| T 16 | 3 41 0 | 23°38'45 | 17°29 | 5°15 | 6°12 | 16°31 | 5°56 | 10°39 | 19°22 | 5°22 | 0°15 | 24°44 | 25°57 | 23° 7 | 15°25 | T 16 |
| F 17 | 3 44 57 | 24°38'57 | 29°32 | 4°17 | 7°22 | 16°13 | 5°51 | 10°34 | 19°25 | 5°21 | 0°14 | 24°D44 | 25°53 | 23°14 | 15°23 | F 17 |
| S 18 | 3 48 53 | 25°39'11 | 11♁26 | 3°12 | 8°32 | 15°55 | 5°47 | 10°29 | 19°29 | 5°19 | 0°13 | 24°45 | 25°50 | 23°20 | 15°21 | S 18 |
| S 19 | 3 52 50 | 26°39'26 | 23°15 | 2° 0 | 9°42 | 15°36 | 5°42 | 10°25 | 19°32 | 5°18 | 0°13 | 24°R46 | 25°47 | 23°27 | 15°19 | S 19 |
| M20 | 3 56 46 | 27°39'42 | 5♁ 4 | 0°43 | 10°52 | 15°16 | 5°37 | 10°20 | 19°35 | 5°17 | 0°12 | 24°45 | 25°44 | 23°34 | 15°18 | M20 |
| T 21 | 4 0 43 | 28°40'00 | 17° 0 | 29♁23 | 12° 2 | 14°56 | 5°32 | 10°16 | 19°38 | 5°16 | 0°12 | 24°43 | 25°41 | 23°40 | 15°16 | T 21 |
| W22 | 4 4 39 | 29°40'19 | 29° 7 | 28° 3 | 13°12 | 14°36 | 5°27 | 10°12 | 19°41 | 5°14 | 0°11 | 24°39 | 25°38 | 23°47 | 15°14 | W22 |
| T 23 | 4 8 36 | 0♂40'40 | 11°Y29 | 26°46 | 14°22 | 14°15 | 5°21 | 10° 7 | 19°44 | 5°13 | 0°11 | 24°33 | 25°34 | 23°54 | 15°12 | T 23 |
| F 24 | 4 12 33 | 1°41'02 | 24°10 | 25°33 | 15°31 | 13°54 | 5°16 | 10° 3 | 19°48 | 5°12 | 0°10 | 24°24 | 25°31 | 24° 0 | 15°11 | F 24 |
| S 25 | 4 16 29 | 2°41'25 | 7♁11 | 24°27 | 16°40 | 13°32 | 5°10 | 9°59 | 19°51 | 5°10 | 0°10 | 24°15 | 25°28 | 24° 7 | 15° 9 | S 25 |
| S 26 | 4 20 26 | 3°41'50 | 20°32 | 23°31 | 17°50 | 13°10 | 5° 4 | 9°55 | 19°54 | 5° 9 | 0° 9 | 24° 6 | 25°25 | 24°14 | 15° 7 | S 26 |
| M27 | 4 24 22 | 4°42'17 | 4♁11 | 22°45 | 18°59 | 12°48 | 4°58 | 9°51 | 19°57 | 5° 8 | 0° 9 | 23°58 | 25°22 | 24°20 | 15° 6 | M27 |
| T 28 | 4 28 19 | 5°42'45 | 18° 6 | 22°11 | 20° 8 | 12°26 | 4°52 | 9°46 | 20° 0 | 5° 6 | 0° 9 | 23°51 | 25°18 | 24°27 | 15° 4 | T 28 |
| W29 | 4 32 15 | 6°43'15 | 2♁12 | 21°48 | 21°17 | 12° 4 | 4°46 | 9°42 | 20° 2 | 5° 5 | 0° 8 | 23°47 | 25°15 | 24°34 | 15° 3 | W29 |
| T 30 | 4 36 12 | 7♂43'46 | 16♁25 | 21♁36 | 22♁26 | 11♁42 | 4♁39 | 9♁39 | 20♁ 5 | 5♁ 3 | 0°Y 8 | 23♁45 | 25♁12 | 24♁40 | 15°Y 2 | T 30 |

Delta T = 17m37s

DECEMBER 2558

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♃ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|--------|------|
| F 1 | 4 40 8 | 8♂44'19 | 0♁41 | 21°D36 | 23♁34 | 11°R19 | 4°R33 | 9°R35 | 20♁ 8 | 5°R 2 | 0°R 8 | 23°D45 | 25♁ 9 | 24♁47 | 15°R 0 | F 1 |
| S 2 | 4 44 5 | 9°44'54 | 14°57 | 21♁47 | 24°43 | 10♁57 | 4♁26 | 9♁31 | 20°11 | 5♁ 0 | 0°Y 7 | 23♁46 | 25° 6 | 24°54 | 14°Y59 | S 2 |
| S 3 | 4 48 2 | 10°45'31 | 29° 9 | 22° 7 | 25°51 | 10°35 | 4°19 | 9°27 | 20°14 | 4°59 | 0° 7 | 23°47 | 25° 3 | 25° 0 | 14°58 | S 3 |
| M 4 | 4 51 58 | 11°46'09 | 13♁17 | 22°37 | 27° 0 | 10°12 | 4°12 | 9°23 | 20°16 | 4°57 | 0° 7 | 23°R48 | 24°59 | 25° 7 | 14°56 | M 4 |
| T 5 | 4 55 55 | 12°46'48 | 27°19 | 23°15 | 28° 8 | 9°50 | 4° 5 | 9°20 | 20°19 | 4°56 | 0° 6 | 23°47 | 24°56 | 25°14 | 14°55 | T 5 |
| W 6 | 4 59 51 | 13°47'30 | 11♁13 | 23°59 | 29°16 | 9°29 | 3°58 | 9°16 | 20°22 | 4°54 | 0° 6 | 23°44 | 24°53 | 25°20 | 14°54 | W 6 |
| T 7 | 5 3 48 | 14°48'13 | 24°59 | 24°50 | 0♁23 | 9° 7 | 3°50 | 9°13 | 20°24 | 4°53 | 0° 6 | 23°39 | 24°50 | 25°27 | 14°53 | T 7 |
| F 8 | 5 7 44 | 15°48'57 | 8♁35 | 25°47 | 1°31 | 8°46 | 3°43 | 9° 9 | 20°27 | 4°51 | 0° 6 | 23°33 | 24°47 | 25°34 | 14°52 | F 8 |
| S 9 | 5 11 41 | 16°49'43 | 21°59 | 26°49 | 2°39 | 8°25 | 3°36 | 9° 6 | 20°29 | 4°49 | 0° 6 | 23°27 | 24°44 | 25°40 | 14°51 | S 9 |
| S 10 | 5 15 37 | 17°50'30 | 5♂10 | 27°55 | 3°46 | 8° 5 | 3°28 | 9° 3 | 20°32 | 4°48 | 0° 6 | 23°21 | 24°40 | 25°47 | 14°50 | S 10 |
| M11 | 5 19 34 | 18°51'19 | 18° 6 | 29° 4 | 4°53 | 7°45 | 3°20 | 9° 0 | 20°34 | 4°46 | 0° 6 | 23°15 | 24°37 | 25°54 | 14°49 | M11 |
| T 12 | 5 23 31 | 19°52'09 | 0♁46 | 0♂17 | 6° 0 | 7°26 | 3°13 | 8°57 | 20°37 | 4°45 | 0° 5 | 23°11 | 24°34 | 26° 0 | 14°49 | T 12 |
| W13 | 5 27 27 | 20°53'00 | 13°12 | 1°32 | 7° 7 | 7° 7 | 3° 5 | 8°54 | 20°39 | 4°43 | 0° 5 | 23° 9 | 24°31 | 26° 7 | 14°48 | W13 |
| T 14 | 5 31 24 | 21°53'51 | 25°24 | 2°50 | 8°13 | 6°48 | 2°57 | 8°51 | 20°41 | 4°41 | 0°D 5 | 23°D 9 | 24°28 | 26°14 | 14°47 | T 14 |
| F 15 | 5 35 20 | 22°54'44 | 7♁25 | 4°10 | 9°20 | 6°31 | 2°49 | 8°48 | 20°44 | 4°40 | 0° 5 | 23°10 | 24°24 | 26°20 | 14°47 | F 15 |
| S 16 | 5 39 17 | 23°55'38 | 19°17 | 5°31 | 10°26 | 6°14 | 2°41 | 8°46 | 20°46 | 4°38 | 0° 5 | 23°11 | 24°21 | 26°27 | 14°46 | S 16 |
| S 17 | 5 43 13 | 24°56'32 | 1♁ 6 | 6°54 | 11°32 | 5°57 | 2°33 | 8°43 | 20°48 | 4°36 | 0° 6 | 23°13 | 24°18 | 26°34 | 14°45 | S 17 |
| M18 | 5 47 10 | 25°57'27 | 12°55 | 8°19 | 12°37 | 5°42 | 2°25 | 8°41 | 20°50 | 4°35 | 0° 6 | 23°15 | 24°15 | 26°40 | 14°45 | M18 |
| T 19 | 5 51 7 | 26°58'23 | 24°50 | 9°44 | 13°43 | 5°27 | 2°17 | 8°38 | 20°52 | 4°33 | 0° 6 | 23°R15 | 24°12 | 26°47 | 14°45 | T 19 |
| W20 | 5 55 3 | 27°59'19 | 6°Y55 | 11°10 | 14°48 | 5°13 | 2° 9 | 8°36 | 20°54 | 4°31 | 0° 6 | 23°15 | 24° 9 | 26°54 | 14°44 | W20 |
| T 21 | 5 59 0 | 29° 0'16 | 19°15 | 12°37 | 15°53 | 4°59 | 2° 0 | 8°34 | 20°56 | 4°30 | 0° 6 | 23°14 | 24° 5 | 27° 0 | 14°44 | T 21 |
| F 22 | 6 2 56 | 0♁ 1'14 | 1♁56 | 14° 5 | 16°57 | 4°47 | 1°52 | 8°32 | 20°58 | 4°28 | 0° 6 | 23°11 | 24° 2 | 27° 7 | 14°44 | F 22 |
| S 23 | 6 6 53 | 1° 2'12 | 14°58 | 15°34 | 18° 2 | 4°35 | 1°44 | 8°30 | 21° 0 | 4°26 | 0° 6 | 23° 8 | 23°59 | 27°14 | 14°43 | S 23 |
| S 24 | 6 10 49 | 2° 3'10 | 28°25 | 17° 3 | 19° 6 | 4°24 | 1°36 | 8°28 | 21° 2 | 4°25 | 0° 7 | 23° 5 | 23°56 | 27°20 | 14°43 | S 24 |
| M25 | 6 14 46 | 3° 4'10 | 12♁17 | 18°32 | 20° 9 | 4°14 | 1°28 | 8°26 | 21° 4 | 4°23 | 0° 7 | 23° 2 | 23°53 | 27°27 | 14°43 | M25 |
| T 26 | 6 18 42 | 4° 5'10 | 26°29 | 20° 2 | 21°13 | 4° 4 | 1°20 | 8°24 | 21° 5 | 4°21 | 0° 7 | 22°59 | 23°50 | 27°34 | 14°D43 | T 26 |
| W27 | 6 22 39 | 5° 6'10 | 10♁59 | 21°32 | 22°16 | 3°55 | 1°12 | 8°23 | 21° 7 | 4°19 | 0° 7 | 22°58 | 23°46 | 27°40 | 14°43 | W27 |
| T 28 | 6 26 36 | 6° 7'12 | 25°40 | 23° 3 | 23°19 | 3°48 | 1° 3 | 8°21 | 21° 9 | 4°18 | 0° 8 | 22°D58 | 23°43 | 27°47 | 14°43 | T 28 |
| F 29 | 6 30 32 | 7° 8'13 | 10♁24 | 24°33 | 24°21 | 3°41 | 0°55 | 8°20 | 21°10 | 4°16 | 0° 8 | 22°58 | 23°40 | 27°54 | 14°43 | F 29 |
| S 30 | 6 34 29 | 8° 9'16 | 25° 6 | 26° 5 | 25°23 | 3°35 | 0°47 | 8°19 | 21°12 | 4°14 | 0° 9 | 22°59 | 23°37 | 28° 0 | 14°44 | S 30 |
| S 31 | 6 38 25 | 9♁10'19 | 9♁40 | 27♂36 | 26♁25 | 3♁29 | 0♁39 | 8♁18 | 21♁13 | 4♁13 | 0°Y 9 | 23♁ 0 | 23♁34 | 28♁ 7 | 14°Y44 | S 31 |

Delta T = 17m37s

ASTRODIENST EPHEMERIS for the year 2559

geocentric

JANUARY 2559

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|--------|------|---|---|---|-----|
| M 1 | 6 42 22 | 10☾11'23 | 24♏ 1 | 29♁ 8 | 27♂26 | 3°R25 | 0°R31 | 8°R17 | 21♁15 | 4°R11 | 0°V 9 | 23☾ 1 | 23☾30 | 28♁14 | 14°V44 | M 1 | | | | |
| T 2 | 6 46 18 | 11°12'28 | 8♁ 6 | 0☾40 | 28°27 | 3♏21 | 0☾23 | 8♁16 | 21°16 | 4☾ 9 | 0°10 | 23°R 2 | 23°27 | 28°20 | 14°44 | T 2 | | | | |
| W 3 | 6 50 15 | 12°13'34 | 21°55 | 2°12 | 29°28 | 3°18 | 0°16 | 8°15 | 21°17 | 4° 8 | 0°10 | 23° 2 | 23°24 | 28°27 | 14°45 | W 3 | | | | |
| T 4 | 6 54 11 | 13°14'40 | 5♏27 | 3°44 | 0♁28 | 3°16 | 0° 8 | 8°14 | 21°19 | 4° 6 | 0°11 | 23° 1 | 23°21 | 28°34 | 14°45 | T 4 | | | | |
| F 5 | 6 58 8 | 14°15'47 | 18°43 | 5°17 | 1°27 | 3°15 | 0° 0 | 8°13 | 21°20 | 4° 4 | 0°11 | 23° 0 | 23°18 | 28°40 | 14°46 | F 5 | | | | |
| S 6 | 7 2 5 | 15°16'54 | 1♁44 | 6°50 | 2°27 | 3°D14 | 29♏52 | 8°13 | 21°21 | 4° 3 | 0°12 | 22°59 | 23°15 | 28°47 | 14°46 | S 6 | | | | |
| S 7 | 7 6 1 | 16°18'02 | 14°31 | 8°24 | 3°25 | 3°14 | 29°45 | 8°13 | 21°22 | 4° 1 | 0°12 | 22°58 | 23°11 | 28°54 | 14°47 | S 7 | | | | |
| M 8 | 7 9 58 | 17°19'11 | 27° 5 | 9°57 | 4°24 | 3°15 | 29°37 | 8°12 | 21°23 | 3°59 | 0°13 | 22°57 | 23° 8 | 29° 1 | 14°48 | M 8 | | | | |
| T 9 | 7 13 54 | 18°20'19 | 9☾27 | 11°31 | 5°21 | 3°17 | 29°30 | 8°12 | 21°24 | 3°58 | 0°14 | 22°57 | 23° 5 | 29° 7 | 14°48 | T 9 | | | | |
| W10 | 7 17 51 | 19°21'28 | 21°39 | 13° 5 | 6°18 | 3°20 | 29°23 | 8°D12 | 21°25 | 3°56 | 0°14 | 22°D57 | 23° 2 | 29°14 | 14°49 | W10 | | | | |
| T 11 | 7 21 47 | 20°22'37 | 3♁42 | 14°40 | 7°15 | 3°23 | 29°16 | 8°12 | 21°26 | 3°54 | 0°15 | 22°57 | 22°59 | 29°21 | 14°50 | T 11 | | | | |
| F 12 | 7 25 44 | 21°23'46 | 15°38 | 16°14 | 8°11 | 3°27 | 29° 9 | 8°12 | 21°27 | 3°53 | 0°16 | 22°57 | 22°56 | 29°27 | 14°51 | F 12 | | | | |
| S 13 | 7 29 40 | 22°24'55 | 27°29 | 17°50 | 9° 7 | 3°32 | 29° 2 | 8°13 | 21°27 | 3°51 | 0°16 | 22°57 | 22°52 | 29°34 | 14°52 | S 13 | | | | |
| S 14 | 7 33 37 | 23°26'03 | 9♁17 | 19°25 | 10° 1 | 3°38 | 28°55 | 8°13 | 21°28 | 3°50 | 0°17 | 22°R57 | 22°49 | 29°41 | 14°53 | S 14 | | | | |
| M15 | 7 37 34 | 24°27'11 | 21° 7 | 21° 1 | 10°56 | 3°44 | 28°48 | 8°14 | 21°29 | 3°48 | 0°18 | 22°57 | 22°46 | 29°47 | 14°54 | M15 | | | | |
| T 16 | 7 41 30 | 25°28'19 | 3°V 1 | 22°37 | 11°49 | 3°51 | 28°42 | 8°14 | 21°29 | 3°46 | 0°19 | 22°57 | 22°43 | 29°54 | 14°55 | T 16 | | | | |
| W17 | 7 45 27 | 26°29'27 | 15° 4 | 24°14 | 12°42 | 3°58 | 28°35 | 8°15 | 21°30 | 3°45 | 0°19 | 22°56 | 22°40 | 0♁ 1 | 14°56 | W17 | | | | |
| T 18 | 7 49 23 | 27°30'34 | 27°20 | 25°51 | 13°34 | 4° 7 | 28°29 | 8°16 | 21°30 | 3°43 | 0°20 | 22°D56 | 22°36 | 0° 7 | 14°58 | T 18 | | | | |
| F 19 | 7 53 20 | 28°31'41 | 9♁54 | 27°29 | 14°26 | 4°16 | 28°23 | 8°17 | 21°31 | 3°42 | 0°21 | 22°56 | 22°33 | 0°14 | 14°59 | F 19 | | | | |
| S 20 | 7 57 16 | 29°32'48 | 22°51 | 29° 6 | 15°16 | 4°25 | 28°17 | 8°18 | 21°31 | 3°40 | 0°22 | 22°57 | 22°30 | 0°21 | 15° 0 | S 20 | | | | |
| S 21 | 8 1 13 | 0♁33'53 | 6♏12 | 0♁45 | 16° 6 | 4°35 | 28°11 | 8°19 | 21°31 | 3°39 | 0°23 | 22°57 | 22°27 | 0°27 | 15° 2 | S 21 | | | | |
| M22 | 8 5 9 | 1°34'59 | 20° 1 | 2°24 | 16°55 | 4°46 | 28° 5 | 8°20 | 21°32 | 3°37 | 0°24 | 22°58 | 22°24 | 0°34 | 15° 3 | M22 | | | | |
| T 23 | 8 9 6 | 2°36'04 | 4☾16 | 4° 3 | 17°43 | 4°58 | 28° 0 | 8°22 | 21°32 | 3°36 | 0°24 | 22°59 | 22°21 | 0°41 | 15° 4 | T 23 | | | | |
| W24 | 8 13 3 | 3°37'08 | 18°55 | 5°43 | 18°30 | 5°10 | 27°54 | 8°23 | 21°32 | 3°35 | 0°25 | 22°R59 | 22°17 | 0°47 | 15° 6 | W24 | | | | |
| T 25 | 8 16 59 | 4°38'12 | 3♁52 | 7°23 | 19°16 | 5°22 | 27°49 | 8°25 | 21°32 | 3°33 | 0°26 | 22°59 | 22°14 | 0°54 | 15° 8 | T 25 | | | | |
| F 26 | 8 20 56 | 5°39'15 | 18°59 | 9° 4 | 20° 1 | 5°35 | 27°44 | 8°27 | 21°R32 | 3°32 | 0°27 | 22°58 | 22°11 | 1° 1 | 15° 9 | F 26 | | | | |
| S 27 | 8 24 52 | 6°40'18 | 4♏ 7 | 10°45 | 20°45 | 5°49 | 27°39 | 8°28 | 21°32 | 3°30 | 0°28 | 22°57 | 22° 8 | 1° 7 | 15°11 | S 27 | | | | |
| S 28 | 8 28 49 | 7°41'20 | 19° 6 | 12°27 | 21°28 | 6° 3 | 27°35 | 8°30 | 21°32 | 3°29 | 0°29 | 22°55 | 22° 5 | 1°14 | 15°13 | S 28 | | | | |
| M29 | 8 32 45 | 8°42'22 | 3♁49 | 14° 9 | 22°10 | 6°18 | 27°30 | 8°32 | 21°32 | 3°28 | 0°30 | 22°53 | 22° 2 | 1°21 | 15°14 | M29 | | | | |
| T 30 | 8 36 42 | 9°43'24 | 18° 9 | 15°52 | 22°50 | 6°33 | 27°26 | 8°35 | 21°31 | 3°26 | 0°31 | 22°52 | 21°58 | 1°27 | 15°16 | T 30 | | | | |
| W31 | 8 40 38 | 10♁44'26 | 2♏ 6 | 17♁35 | 23♁30 | 6♏49 | 27♏22 | 8♁37 | 21♁31 | 3☾25 | 0°V32 | 22☾51 | 21☾55 | 1♁34 | 15°V18 | W31 | | | | |

Delta T = 17m38s

FEBRUARY 2559

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♁ | ♂ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | Day |
|------|----------|----------|--------|--------|-------|-------|--------|-------|--------|-------|-------|--------|-------|------|--------|------|---|---|---|-----|
| T 1 | 8 44 35 | 11♁45'27 | 15♏38 | 19♁18 | 24♁ 8 | 7♏ 5 | 27°R18 | 8♁39 | 21°R31 | 3°R24 | 0°V34 | 22°D50 | 21☾52 | 1♁41 | 15°V20 | T 1 | | | | |
| F 2 | 8 48 32 | 12°46'27 | 28°46 | 21° 1 | 24°45 | 7°22 | 27♏14 | 8°42 | 21♁31 | 3☾23 | 0°35 | 22☾51 | 21°49 | 1°47 | 15°22 | F 2 | | | | |
| S 3 | 8 52 28 | 13°47'28 | 11♁35 | 22°45 | 25°21 | 7°39 | 27°10 | 8°44 | 21°30 | 3°21 | 0°36 | 22°52 | 21°46 | 1°54 | 15°24 | S 3 | | | | |
| S 4 | 8 56 25 | 14°48'28 | 24° 6 | 24°29 | 25°55 | 7°56 | 27° 7 | 8°47 | 21°30 | 3°20 | 0°37 | 22°54 | 21°42 | 2° 1 | 15°26 | S 4 | | | | |
| M 5 | 9 0 21 | 15°49'27 | 6☾24 | 26°13 | 26°27 | 8°14 | 27° 4 | 8°50 | 21°29 | 3°19 | 0°38 | 22°56 | 21°39 | 2° 7 | 15°28 | M 5 | | | | |
| T 6 | 9 4 18 | 16°50'25 | 18°31 | 27°57 | 26°59 | 8°33 | 27° 1 | 8°53 | 21°28 | 3°18 | 0°39 | 22°R57 | 21°36 | 2°14 | 15°30 | T 6 | | | | |
| W 7 | 9 8 14 | 17°51'23 | 0♁31 | 29°40 | 27°28 | 8°52 | 26°58 | 8°55 | 21°28 | 3°17 | 0°40 | 22°56 | 21°33 | 2°21 | 15°32 | W 7 | | | | |
| T 8 | 9 12 11 | 18°52'20 | 12°25 | 1♁23 | 27°56 | 9°11 | 26°55 | 8°59 | 21°27 | 3°16 | 0°42 | 22°55 | 21°30 | 2°27 | 15°35 | T 8 | | | | |
| F 9 | 9 16 8 | 19°53'16 | 24°16 | 3° 6 | 28°22 | 9°31 | 26°53 | 9° 2 | 21°26 | 3°15 | 0°43 | 22°52 | 21°27 | 2°34 | 15°37 | F 9 | | | | |
| S 10 | 9 20 4 | 20°54'11 | 6♁ 5 | 4°47 | 28°47 | 9°51 | 26°51 | 9° 5 | 21°26 | 3°14 | 0°44 | 22°48 | 21°23 | 2°41 | 15°39 | S 10 | | | | |
| S 11 | 9 24 1 | 21°55'05 | 17°55 | 6°27 | 29° 9 | 10°11 | 26°49 | 9° 8 | 21°25 | 3°13 | 0°45 | 22°42 | 21°20 | 2°47 | 15°41 | S 11 | | | | |
| M12 | 9 27 57 | 22°55'58 | 29°47 | 8° 5 | 29°30 | 10°32 | 26°47 | 9°12 | 21°24 | 3°12 | 0°47 | 22°37 | 21°17 | 2°54 | 15°44 | M12 | | | | |
| T 13 | 9 31 54 | 23°56'49 | 11°V44 | 9°42 | 29°49 | 10°53 | 26°45 | 9°15 | 21°23 | 3°11 | 0°48 | 22°31 | 21°14 | 3° 1 | 15°46 | T 13 | | | | |
| W14 | 9 35 50 | 24°57'39 | 23°49 | 11°15 | 0°V 6 | 11°15 | 26°44 | 9°19 | 21°22 | 3°10 | 0°49 | 22°26 | 21°11 | 3° 8 | 15°49 | W14 | | | | |
| T 15 | 9 39 47 | 25°58'28 | 6♁ 5 | 12°46 | 0°20 | 11°37 | 26°43 | 9°23 | 21°21 | 3° 9 | 0°50 | 22°23 | 21° 7 | 3°14 | 15°51 | T 15 | | | | |
| F 16 | 9 43 43 | 26°59'16 | 18°35 | 14°13 | 0°33 | 11°59 | 26°42 | 9°27 | 21°20 | 3° 8 | 0°52 | 22°21 | 21° 4 | 3°21 | 15°54 | F 16 | | | | |
| S 17 | 9 47 40 | 28° 0'02 | 1♏24 | 15°36 | 0°43 | 12°22 | 26°41 | 9°31 | 21°18 | 3° 7 | 0°53 | 22°D21 | 21° 1 | 3°28 | 15°56 | S 17 | | | | |
| S 18 | 9 51 36 | 29° 0'46 | 14°36 | 16°53 | 0°51 | 12°45 | 26°41 | 9°35 | 21°17 | 3° 6 | 0°54 | 22°22 | 20°58 | 3°34 | 15°59 | S 18 | | | | |
| M19 | 9 55 33 | 0♁ 1'30 | 28°13 | 18° 6 | 0°56 | 13° 8 | 26°40 | 9°39 | 21°16 | 3° 5 | 0°56 | 22°23 | 20°55 | 3°41 | 16° 2 | M19 | | | | |
| T 20 | 9 59 30 | 1° 2'11 | 12☾17 | 19°11 | 1° 0 | 13°31 | 26°D40 | 9°43 | 21°15 | 3° 5 | 0°57 | 22°24 | 20°52 | 3°48 | 16° 4 | T 20 | | | | |
| W21 | 10 3 26 | 2° 2'51 | 26°48 | 20°10 | 1°R 0 | 13°55 | 26°40 | 9°47 | 21°13 | 3° 4 | 0°59 | 22°R25 | 20°48 | 3°54 | 16° 7 | W21 | | | | |
| T 22 | 10 7 23 | 3° 3'30 | 11♁43 | 21° 0 | 0°59 | 14°19 | 26°40 | 9°52 | 21°12 | 3° 3 | 1° 0 | 22°23 | 20°45 | 4° 1 | 16°10 | T 22 | | | | |
| F 23 | 10 11 19 | 4° 4'06 | 26°55 | 21°42 | 0°54 | 14°44 | 26°41 | 9°56 | 21°10 | 3° 3 | 1° 1 | 22°20 | 20°42 | 4° 8 | 16°13 | F 23 | | | | |
| S 24 | 10 15 16 | 5° 4'42 | 12♏14 | 22°15 | 0°47 | 15° 8 | 26°41 | 10° 1 | 21° 9 | 3° 2 | 1° 3 | 22°15 | 20°39 | 4°14 | 16°15 | S 24 | | | | |
| S 25 | 10 19 12 | 6° 5'16 | 27°29 | 22°38 | 0°38 | 15°33 | 26°42 | 10° 5 | 21° 7 | 3° 1 | 1° 4 | 22° 8 | 20°36 | 4°21 | 16°18 | S 25 | | | | |
| M26 | 10 23 9 | 7° 5'49 | 12♁30 | 22°51 | 0°26 | 15°58 | 26°43 | 10°10 | 21° 6 | 3° 1 | 1° 6 | 22° 1 | 20°33 | 4°28 | 16°21 | M26 | | | | |
| T 27 | 10 27 5 | 8° 6'20 | 27° 8 | 22°R54 | 0°12 | 16°24 | 26°44 | 10°15 | 21° 4 | 3° 0 | 1° 7 | 21°54 | 20°29 | 4°34 | 16°24 | T 27 | | | | |
| W28 | 10 31 2 | 9♁ 6'50 | 11♏19 | 22♁46 | 29♁55 | 16♏50 | 26♏46 | 10♁20 | 21♁ 2 | 3☾ 0 | 1°V 8 | 21☾49 | 20☾26 | 4♁41 | 16°V27 | W28 | | | | |

Delta T = 17m38s

ASTRODIENST EPHEMERIS for the year 2559
geocentric

MARCH 2559

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|-----------|-------|--------|--------|-------|-------|-------|--------|-------|-------|--------|-------|------|--------|------|
| T 1 | 10 34 59 | 10♈ 7'19 | 25♍ 0 | 22°R28 | 29°R36 | 17♂15 | 26♁48 | 10♂25 | 21°R 1 | 2°R59 | 1°V10 | 21°R46 | 20♂23 | 4♋48 | 16°V30 | T 1 |
| F 2 | 10 38 55 | 11° 7'47 | 8♌12 | 22♈ 1 | 29♈14 | 17°42 | 26°49 | 10°30 | 20♁59 | 2♂59 | 1°11 | 21°D45 | 20°20 | 4°54 | 16°33 | F 2 |
| S 3 | 10 42 52 | 12° 8'14 | 20°59 | 21°24 | 28°51 | 18° 8 | 26°51 | 10°35 | 20°57 | 2°59 | 1°13 | 21♂45 | 20°17 | 5° 1 | 16°36 | S 3 |
| S 4 | 10 46 48 | 13° 8'39 | 3♂26 | 20°40 | 28°25 | 18°35 | 26°54 | 10°40 | 20°55 | 2°58 | 1°14 | 21°46 | 20°13 | 5° 8 | 16°39 | S 4 |
| M 5 | 10 50 45 | 14° 9'03 | 15°36 | 19°48 | 27°57 | 19° 1 | 26°56 | 10°45 | 20°53 | 2°58 | 1°16 | 21°R47 | 20°10 | 5°14 | 16°42 | M 5 |
| T 6 | 10 54 41 | 15° 9'25 | 27°35 | 18°51 | 27°27 | 19°28 | 26°59 | 10°51 | 20°52 | 2°58 | 1°17 | 21°47 | 20° 7 | 5°21 | 16°45 | T 6 |
| W 7 | 10 58 38 | 16° 9'46 | 9♌27 | 17°50 | 26°55 | 19°56 | 27° 1 | 10°56 | 20°50 | 2°57 | 1°19 | 21°45 | 20° 4 | 5°28 | 16°48 | W 7 |
| T 8 | 11 2 34 | 17°10'06 | 21°16 | 16°47 | 26°22 | 20°23 | 27° 4 | 11° 1 | 20°48 | 2°57 | 1°20 | 21°41 | 20° 1 | 5°35 | 16°51 | T 8 |
| F 9 | 11 6 31 | 18°10'24 | 3♈ 4 | 15°43 | 25°48 | 20°51 | 27° 8 | 11° 7 | 20°46 | 2°57 | 1°22 | 21°34 | 19°58 | 5°41 | 16°55 | F 9 |
| S 10 | 11 10 28 | 19°10'40 | 14°55 | 14°39 | 25°13 | 21°19 | 27°11 | 11°13 | 20°43 | 2°57 | 1°23 | 21°25 | 19°54 | 5°48 | 16°58 | S 10 |
| S 11 | 11 14 24 | 20°10'54 | 26°48 | 13°38 | 24°36 | 21°47 | 27°15 | 11°18 | 20°41 | 2°57 | 1°25 | 21°14 | 19°51 | 5°55 | 17° 1 | S 11 |
| M12 | 11 18 21 | 21°11'07 | 8°V47 | 12°40 | 23°59 | 22°15 | 27°18 | 11°24 | 20°39 | 2°57 | 1°26 | 21° 2 | 19°48 | 6° 1 | 17° 4 | M12 |
| T 13 | 11 22 17 | 22°11'18 | 20°52 | 11°46 | 23°22 | 22°43 | 27°22 | 11°30 | 20°37 | 2°56 | 1°28 | 20°50 | 19°45 | 6° 8 | 17° 8 | T 13 |
| W14 | 11 26 14 | 23°11'27 | 3♂ 5 | 10°58 | 22°44 | 23°12 | 27°26 | 11°36 | 20°35 | 2°D56 | 1°29 | 20°39 | 19°42 | 6°15 | 17°11 | W14 |
| T 15 | 11 30 10 | 24°11'34 | 15°27 | 10°15 | 22° 7 | 23°41 | 27°31 | 11°42 | 20°33 | 2°56 | 1°31 | 20°31 | 19°39 | 6°21 | 17°14 | T 15 |
| F 16 | 11 34 7 | 25°11'39 | 28° 1 | 9°39 | 21°30 | 24°10 | 27°35 | 11°48 | 20°30 | 2°56 | 1°33 | 20°25 | 19°35 | 6°28 | 17°17 | F 16 |
| S 17 | 11 38 3 | 26°11'42 | 10♂50 | 9°10 | 20°53 | 24°39 | 27°40 | 11°54 | 20°28 | 2°57 | 1°34 | 20°21 | 19°32 | 6°35 | 17°21 | S 17 |
| S 18 | 11 42 0 | 27°11'43 | 23°56 | 8°47 | 20°18 | 25° 8 | 27°44 | 12° 0 | 20°26 | 2°57 | 1°36 | 20°D20 | 19°29 | 6°41 | 17°24 | S 18 |
| M19 | 11 45 57 | 28°11'42 | 7♂24 | 8°32 | 19°43 | 25°37 | 27°49 | 12° 6 | 20°24 | 2°57 | 1°37 | 20°20 | 19°26 | 6°48 | 17°28 | M19 |
| T 20 | 11 49 53 | 29°11'38 | 2°15 | 8°22 | 19°10 | 26° 7 | 27°55 | 12°12 | 20°21 | 2°57 | 1°39 | 20°R21 | 19°23 | 6°55 | 17°31 | T 20 |
| W21 | 11 53 50 | 0°V11'33 | 5♁30 | 8°D19 | 18°38 | 26°37 | 28° 0 | 12°19 | 20°19 | 2°57 | 1°40 | 20°20 | 19°19 | 7° 1 | 17°34 | W21 |
| T 22 | 11 57 46 | 1°11'25 | 20° 9 | 8°23 | 18° 8 | 27° 6 | 28° 5 | 12°25 | 20°16 | 2°58 | 1°42 | 20°17 | 19°16 | 7° 8 | 17°38 | T 22 |
| F 23 | 12 1 43 | 2°11'15 | 5♁ 7 | 8°32 | 17°40 | 27°36 | 28°11 | 12°31 | 20°14 | 2°58 | 1°43 | 20°11 | 19°13 | 7°15 | 17°41 | F 23 |
| S 24 | 12 5 39 | 3°11'03 | 20°18 | 8°47 | 17°14 | 28° 7 | 28°17 | 12°38 | 20°12 | 2°58 | 1°45 | 20° 3 | 19°10 | 7°21 | 17°45 | S 24 |
| S 25 | 12 9 36 | 4°10'49 | 5♁30 | 9° 7 | 16°50 | 28°37 | 28°23 | 12°44 | 20° 9 | 2°58 | 1°46 | 19°53 | 19° 7 | 7°28 | 17°48 | S 25 |
| M26 | 12 13 32 | 5°10'33 | 20°34 | 9°32 | 16°28 | 29° 7 | 28°29 | 12°51 | 20° 7 | 2°59 | 1°48 | 19°42 | 19° 4 | 7°35 | 17°52 | M26 |
| T 27 | 12 17 29 | 6°10'15 | 5♁19 | 10° 2 | 16° 8 | 29°38 | 28°35 | 12°58 | 20° 4 | 2°59 | 1°50 | 19°31 | 19° 0 | 7°42 | 17°55 | T 27 |
| W28 | 12 21 25 | 7° 9'56 | 19°38 | 10°37 | 15°51 | 0♂ 8 | 28°42 | 13° 4 | 20° 2 | 3° 0 | 1°51 | 19°22 | 18°57 | 7°48 | 17°58 | W28 |
| T 29 | 12 25 22 | 8° 9'34 | 3♌28 | 11°15 | 15°36 | 0°39 | 28°48 | 13°11 | 19°59 | 3° 0 | 1°53 | 19°16 | 18°54 | 7°55 | 18° 2 | T 29 |
| F 30 | 12 29 19 | 9° 9'11 | 16°47 | 11°57 | 15°24 | 1°10 | 28°55 | 13°18 | 19°57 | 3° 1 | 1°54 | 19°12 | 18°51 | 8° 2 | 18° 5 | F 30 |
| S 31 | 12 33 15 | 10°V 8'47 | 29♌40 | 12♈44 | 15♈14 | 1♂41 | 29♂ 2 | 13♂25 | 19♁54 | 3♂ 1 | 1°V56 | 19♂10 | 18♂48 | 8♈ 8 | 18°V 9 | S 31 |

Delta T = 17m38s

APRIL 2559

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|-----------|-------|--------|--------|-------|-------|-------|--------|------|-------|--------|-------|-------|--------|------|
| S 1 | 12 37 12 | 11°V 8'20 | 12♂ 9 | 13♈33 | 15°R 7 | 2♂12 | 29♂ 9 | 13♂31 | 19°R52 | 3♂ 2 | 1°V57 | 19°R10 | 18♂44 | 8♈15 | 18°V12 | S 1 |
| M 2 | 12 41 8 | 12° 7'52 | 24°20 | 14°26 | 15♈ 2 | 2°43 | 29°16 | 13°38 | 19♁49 | 3° 3 | 1°59 | 19♂10 | 18°41 | 8°22 | 18°16 | M 2 |
| T 3 | 12 45 5 | 13° 7'22 | 6♁18 | 15°22 | 15°D 0 | 3°15 | 29°24 | 13°45 | 19°46 | 3° 3 | 2° 0 | 19° 9 | 18°38 | 8°28 | 18°20 | T 3 |
| W 4 | 12 49 1 | 14° 6'51 | 18° 9 | 16°20 | 15° 0 | 3°46 | 29°31 | 13°52 | 19°44 | 3° 4 | 2° 2 | 19° 6 | 18°35 | 8°35 | 18°23 | W 4 |
| T 5 | 12 52 58 | 15° 6'17 | 29°56 | 17°22 | 15° 2 | 4°18 | 29°39 | 13°59 | 19°41 | 3° 5 | 2° 3 | 19° 0 | 18°32 | 8°42 | 18°27 | T 5 |
| F 6 | 12 56 54 | 16° 5'42 | 11♈45 | 18°26 | 15° 7 | 4°49 | 29°46 | 14° 6 | 19°39 | 3° 5 | 2° 5 | 18°52 | 18°29 | 8°48 | 18°30 | F 6 |
| S 7 | 13 0 51 | 17° 5'05 | 23°39 | 19°32 | 15°14 | 5°21 | 29°54 | 14°13 | 19°36 | 3° 6 | 2° 6 | 18°41 | 18°25 | 8°55 | 18°34 | S 7 |
| S 8 | 13 4 48 | 18° 4'26 | 5°V38 | 20°41 | 15°23 | 5°53 | 0♂ 2 | 14°20 | 19°33 | 3° 7 | 2° 8 | 18°28 | 18°22 | 9° 2 | 18°37 | S 8 |
| M 9 | 13 8 44 | 19° 3'45 | 17°46 | 21°52 | 15°35 | 6°25 | 0°11 | 14°28 | 19°31 | 3° 8 | 2° 9 | 18°13 | 18°19 | 9° 9 | 18°41 | M 9 |
| T 10 | 13 12 41 | 20° 3'02 | 0♂ 3 | 23° 5 | 15°48 | 6°57 | 0°19 | 14°35 | 19°28 | 3° 9 | 2°11 | 17°59 | 18°16 | 9°15 | 18°44 | T 10 |
| W11 | 13 16 37 | 21° 2'17 | 12°29 | 24°20 | 16° 4 | 7°29 | 0°27 | 14°42 | 19°26 | 3°10 | 2°12 | 17°46 | 18°13 | 9°22 | 18°48 | W11 |
| T 12 | 13 20 34 | 22° 1'30 | 25° 6 | 25°37 | 16°21 | 8° 1 | 0°36 | 14°49 | 19°23 | 3°11 | 2°14 | 17°36 | 18°10 | 9°29 | 18°51 | T 12 |
| F 13 | 13 24 30 | 23° 0'41 | 7♂53 | 26°56 | 16°41 | 8°34 | 0°45 | 14°56 | 19°20 | 3°11 | 2°15 | 17°28 | 18° 6 | 9°35 | 18°55 | F 13 |
| S 14 | 13 28 27 | 23°59'49 | 20°52 | 28°17 | 17° 2 | 9° 6 | 0°53 | 15° 4 | 19°18 | 3°13 | 2°17 | 17°24 | 18° 3 | 9°42 | 18°58 | S 14 |
| S 15 | 13 32 23 | 24°58'56 | 4♂ 4 | 29°40 | 17°25 | 9°39 | 1° 2 | 15°11 | 19°15 | 3°14 | 2°18 | 17°21 | 18° 0 | 9°49 | 19° 2 | S 15 |
| M16 | 13 36 20 | 25°58'00 | 17°32 | 1°V 4 | 17°50 | 10°11 | 1°11 | 15°18 | 19°13 | 3°15 | 2°20 | 17°D21 | 17°57 | 9°55 | 19° 5 | M16 |
| T 17 | 13 40 17 | 26°57'02 | 1♁17 | 2°30 | 18°16 | 10°44 | 1°21 | 15°26 | 19°10 | 3°16 | 2°21 | 17°R21 | 17°54 | 10° 2 | 19° 9 | T 17 |
| W18 | 13 44 13 | 27°56'01 | 15°20 | 3°58 | 18°44 | 11°17 | 1°30 | 15°33 | 19° 7 | 3°17 | 2°22 | 17°20 | 17°50 | 10° 9 | 19°12 | W18 |
| T 19 | 13 48 10 | 28°54'58 | 29°42 | 5°28 | 19°14 | 11°50 | 1°39 | 15°41 | 19° 5 | 3°18 | 2°24 | 17°17 | 17°47 | 10°15 | 19°16 | T 19 |
| F 20 | 13 52 6 | 29°53'53 | 14♁19 | 6°59 | 19°45 | 12°22 | 1°49 | 15°48 | 19° 2 | 3°19 | 2°25 | 17°12 | 17°44 | 10°22 | 19°19 | F 20 |
| S 21 | 13 56 3 | 0♂52'46 | 29° 8 | 8°31 | 20°17 | 12°55 | 1°58 | 15°56 | 19° 0 | 3°20 | 2°27 | 17° 4 | 17°41 | 10°29 | 19°23 | S 21 |
| S 22 | 13 59 59 | 1°51'36 | 14♁ 0 | 10° 6 | 20°51 | 13°28 | 2° 8 | 16° 3 | 18°57 | 3°22 | 2°28 | 16°54 | 17°38 | 10°36 | 19°26 | S 22 |
| M23 | 14 3 56 | 2°50'25 | 28°48 | 11°42 | 21°26 | 14° 2 | 2°18 | 16°11 | 18°55 | 3°23 | 2°29 | 16°43 | 17°35 | 10°42 | 19°30 | M23 |
| T 24 | 14 7 52 | 3°49'11 | 13♁22 | 13°19 | 22° 3 | 14°35 | 2°28 | 16°18 | 18°52 | 3°24 | 2°31 | 16°32 | 17°31 | 10°49 | 19°33 | T 24 |
| W25 | 14 11 49 | 4°47'56 | 27°37 | 14°59 | 22°41 | 15° 8 | 2°38 | 16°26 | 18°50 | 3°26 | 2°32 | 16°23 | 17°28 | 10°56 | 19°37 | W25 |
| T 26 | 14 15 46 | 5°46'38 | 11♌25 | 16°39 | 23°19 | 15°41 | 2°48 | 16°33 | 18°47 | 3°27 | 2°33 | 16°16 | 17°25 | 11° 2 | 19°40 | T 26 |
| F 27 | 14 19 42 | 6°45'20 | 24°48 | 18°22 | 23°59 | 16°15 | 2°58 | 16°41 | 18°45 | 3°28 | 2°35 | 16°12 | 17°22 | 11° 9 | 19°44 | F 27 |
| S 28 | 14 23 39 | 7°43'59 | 7♂44 | 20° 6 | 24°41 | 16°48 | 3° 9 | 16°48 | 18°43 | 3°30 | 2°36 | 16°10 | 17°19 | 11°16 | 19°47 | S 28 |
| S 29 | 14 27 35 | 8°42'37 | 20°17 | 21°51 | 25°23 | 17°22 | 3°19 | 16°56 | 18°40 | 3°31 | 2°37 | 16°D10 | 17°16 | 11°22 | 19°50 | S 29 |
| M30 | 14 31 32 | 9♂41'13 | 2♁31 | 23°V39 | 26♈ 6 | 17♂55 | 3♂30 | 17♂ 4 | 18♁38 | 3♂33 | 2°V39 | 16♂10 | 17♂12 | 11♈29 | 19°V54 | M30 |

Delta T = 17m38s

ASTRODIENST EPHEMERIS for the year 2559
geocentric

MAY 2559

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♃ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|------|-------|--------|------|------|--------|-------|-------|-------|------|-----|
| T 1 | 14 35 28 | 10♁39'47 | 14♁32 | 25♂27 | 26♂50 | 18♁29 | 3♁40 | 17♁11 | 18°R35 | 3♁34 | 2♂40 | 16°R11 | 17♁9 | 11♁36 | 19♂57 | T 1 | |
| W 2 | 14 39 25 | 11°38'20 | 26°25 | 27°18 | 27°35 | 19° 3 | 3°51 | 17°19 | 18♁33 | 3°36 | 2°41 | 16♁9 | 17° 6 | 11°42 | 20° 1 | W 2 | |
| T 3 | 14 43 21 | 12°36'51 | 8♁14 | 29°10 | 28°21 | 19°36 | 4° 2 | 17°26 | 18°31 | 3°37 | 2°43 | 16° 6 | 17° 3 | 11°49 | 20° 4 | T 3 | |
| F 4 | 14 47 18 | 13°35'21 | 20° 6 | 1♁ 4 | 29° 8 | 20°10 | 4°13 | 17°34 | 18°28 | 3°39 | 2°44 | 16° 0 | 17° 0 | 11°56 | 20° 7 | F 4 | |
| S 5 | 14 51 15 | 14°33'49 | 2♂ 3 | 2°59 | 29°55 | 20°44 | 4°24 | 17°42 | 18°26 | 3°40 | 2°45 | 15°52 | 16°56 | 12° 3 | 20°10 | S 5 | |
| S 6 | 14 55 11 | 15°32'15 | 14° 9 | 4°57 | 0♂43 | 21°18 | 4°35 | 17°49 | 18°24 | 3°42 | 2°46 | 15°43 | 16°53 | 12° 9 | 20°14 | S 6 | |
| M 7 | 14 59 8 | 16°30'40 | 26°26 | 6°55 | 1°33 | 21°52 | 4°46 | 17°57 | 18°22 | 3°43 | 2°47 | 15°32 | 16°50 | 12°16 | 20°17 | M 7 | |
| T 8 | 15 3 4 | 17°29'02 | 8♁56 | 8°56 | 2°22 | 22°26 | 4°57 | 18° 5 | 18°20 | 3°45 | 2°49 | 15°21 | 16°47 | 12°23 | 20°20 | T 8 | |
| W 9 | 15 7 1 | 18°27'24 | 21°39 | 10°58 | 3°13 | 23° 0 | 5° 9 | 18°12 | 18°17 | 3°47 | 2°50 | 15°11 | 16°44 | 12°29 | 20°23 | W 9 | |
| T 10 | 15 10 57 | 19°25'43 | 4♁34 | 13° 1 | 4° 4 | 23°34 | 5°20 | 18°20 | 18°15 | 3°48 | 2°51 | 15° 3 | 16°41 | 12°36 | 20°27 | T 10 | |
| F 11 | 15 14 54 | 20°24'01 | 17°41 | 15° 6 | 4°56 | 24° 8 | 5°32 | 18°28 | 18°13 | 3°50 | 2°52 | 14°58 | 16°37 | 12°43 | 20°30 | F 11 | |
| S 12 | 15 18 50 | 21°22'17 | 1♁ 0 | 17°12 | 5°48 | 24°43 | 5°43 | 18°35 | 18°11 | 3°52 | 2°53 | 14°55 | 16°34 | 12°49 | 20°33 | S 12 | |
| S 13 | 15 22 47 | 22°20'31 | 14°29 | 19°19 | 6°41 | 25°17 | 5°55 | 18°43 | 18° 9 | 3°54 | 2°54 | 14°D54 | 16°31 | 12°56 | 20°36 | S 13 | |
| M14 | 15 26 44 | 23°18'43 | 28°10 | 21°28 | 7°35 | 25°51 | 6° 6 | 18°51 | 18° 7 | 3°55 | 2°55 | 14°54 | 16°28 | 13° 3 | 20°39 | M14 | |
| T 15 | 15 30 40 | 24°16'53 | 12♁ 1 | 23°37 | 8°29 | 26°26 | 6°18 | 18°58 | 18° 5 | 3°57 | 2°56 | 14°55 | 16°25 | 13°10 | 20°42 | T 15 | |
| W16 | 15 34 37 | 25°15'01 | 26° 3 | 25°47 | 9°24 | 27° 0 | 6°30 | 19° 6 | 18° 3 | 3°59 | 2°57 | 14°R56 | 16°22 | 13°16 | 20°45 | W16 | |
| T 17 | 15 38 33 | 26°13'07 | 10♁15 | 27°57 | 10°19 | 27°35 | 6°42 | 19°14 | 18° 1 | 4° 1 | 2°58 | 14°55 | 16°18 | 13°23 | 20°48 | T 17 | |
| F 18 | 15 42 30 | 27°11'11 | 24°35 | 0♁ 7 | 11°15 | 28° 9 | 6°54 | 19°21 | 18° 0 | 4° 3 | 2°59 | 14°52 | 16°15 | 13°30 | 20°51 | F 18 | |
| S 19 | 15 46 26 | 28° 9'13 | 9♁ 0 | 2°18 | 12°11 | 28°44 | 7° 6 | 19°29 | 17°58 | 4° 5 | 3° 0 | 14°47 | 16°12 | 13°36 | 20°54 | S 19 | |
| S 20 | 15 50 23 | 29° 7'13 | 23°26 | 4°28 | 13° 7 | 29°18 | 7°18 | 19°36 | 17°56 | 4° 7 | 3° 1 | 14°41 | 16° 9 | 13°43 | 20°57 | S 20 | |
| M21 | 15 54 19 | 0♁ 5'12 | 7♁47 | 6°37 | 14° 4 | 29°53 | 7°30 | 19°44 | 17°54 | 4° 8 | 3° 2 | 14°34 | 16° 6 | 13°50 | 21° 0 | M21 | |
| T 22 | 15 58 16 | 1° 3'09 | 21°58 | 8°46 | 15° 2 | 0♁28 | 7°43 | 19°52 | 17°53 | 4°10 | 3° 3 | 14°27 | 16° 2 | 13°56 | 21° 3 | T 22 | |
| W23 | 16 2 13 | 2° 1'04 | 5♁53 | 10°53 | 16° 0 | 1° 2 | 7°55 | 19°59 | 17°51 | 4°12 | 3° 4 | 14°21 | 15°59 | 14° 3 | 21° 6 | W23 | |
| T 24 | 16 6 9 | 2°58'58 | 19°28 | 12°59 | 16°58 | 1°37 | 8° 7 | 20° 7 | 17°49 | 4°14 | 3° 5 | 14°17 | 15°56 | 14°10 | 21° 9 | T 24 | |
| F 25 | 16 10 6 | 3°56'51 | 2♁42 | 15° 3 | 17°57 | 2°12 | 8°20 | 20°14 | 17°48 | 4°16 | 3° 6 | 14°15 | 15°53 | 14°17 | 21°12 | F 25 | |
| S 26 | 16 14 2 | 4°54'42 | 15°35 | 17° 5 | 18°56 | 2°47 | 8°32 | 20°22 | 17°46 | 4°18 | 3° 7 | 14°D14 | 15°50 | 14°23 | 21°14 | S 26 | |
| S 27 | 16 17 59 | 5°52'32 | 28° 8 | 19° 5 | 19°55 | 3°22 | 8°45 | 20°29 | 17°45 | 4°20 | 3° 8 | 14°15 | 15°47 | 14°30 | 21°17 | S 27 | |
| M28 | 16 21 55 | 6°50'21 | 10♁24 | 21° 2 | 20°55 | 3°57 | 8°57 | 20°37 | 17°44 | 4°22 | 3° 8 | 14°16 | 15°43 | 14°37 | 21°20 | M28 | |
| T 29 | 16 25 52 | 7°48'09 | 22°27 | 22°57 | 21°55 | 4°32 | 9°10 | 20°44 | 17°42 | 4°24 | 3° 9 | 14°18 | 15°40 | 14°43 | 21°22 | T 29 | |
| W30 | 16 29 48 | 8°45'56 | 4♁22 | 24°50 | 22°56 | 5° 7 | 9°22 | 20°51 | 17°41 | 4°26 | 3°10 | 14°R19 | 15°37 | 14°50 | 21°25 | W30 | |
| T 31 | 16 33 45 | 9♁43'41 | 16♁14 | 26♁39 | 23♂56 | 5♁42 | 9♁35 | 20♁59 | 17♁40 | 4♁28 | 3♂11 | 14♁19 | 15♁34 | 14♁57 | 21♂28 | T 31 | |

Delta T = 17m39s

JUNE 2559

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♃ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|------|------|--------|-------|-------|-------|------|-----|
| F 1 | 16 37 42 | 10♁41'25 | 28♁ 7 | 28♁26 | 24♂57 | 6♁17 | 9♁48 | 21♁ 6 | 17°R38 | 4♁31 | 3♂12 | 14°R17 | 15♁31 | 15♁ 4 | 21♂30 | F 1 | |
| S 2 | 16 41 38 | 11°39'09 | 10♂ 7 | 0♁10 | 25°59 | 6°52 | 10° 1 | 21°14 | 17♁37 | 4°33 | 3°12 | 14♁14 | 15°27 | 15°10 | 21°33 | S 2 | |
| S 3 | 16 45 35 | 12°36'51 | 22°17 | 1°51 | 27° 1 | 7°27 | 10°13 | 21°21 | 17°36 | 4°35 | 3°13 | 14°10 | 15°24 | 15°17 | 21°35 | S 3 | |
| M 4 | 16 49 31 | 13°34'32 | 4♁41 | 3°29 | 28° 2 | 8° 3 | 10°26 | 21°28 | 17°35 | 4°37 | 3°14 | 14° 6 | 15°21 | 15°24 | 21°38 | M 4 | |
| T 5 | 16 53 28 | 14°32'12 | 17°21 | 5° 3 | 29° 5 | 8°38 | 10°39 | 21°36 | 17°34 | 4°39 | 3°14 | 14° 1 | 15°18 | 15°30 | 21°40 | T 5 | |
| W 6 | 16 57 24 | 15°29'52 | 0♁18 | 6°35 | 0♁ 7 | 9°13 | 10°52 | 21°43 | 17°33 | 4°41 | 3°15 | 13°56 | 15°15 | 15°37 | 21°43 | W 6 | |
| T 7 | 17 1 21 | 16°27'30 | 13°31 | 8° 3 | 1°10 | 9°49 | 11° 5 | 21°50 | 17°32 | 4°43 | 3°16 | 13°53 | 15°12 | 15°44 | 21°45 | T 7 | |
| F 8 | 17 5 17 | 17°25'07 | 27° 1 | 9°29 | 2°13 | 10°24 | 11°18 | 21°57 | 17°31 | 4°45 | 3°16 | 13°50 | 15° 8 | 15°50 | 21°47 | F 8 | |
| S 9 | 17 9 14 | 18°22'43 | 10♁44 | 10°51 | 3°16 | 10°59 | 11°31 | 22° 4 | 17°30 | 4°48 | 3°17 | 13°D49 | 15° 5 | 15°57 | 21°49 | S 9 | |
| S 10 | 17 13 11 | 19°20'18 | 24°39 | 12° 9 | 4°19 | 11°35 | 11°45 | 22°11 | 17°29 | 4°50 | 3°17 | 13°50 | 15° 2 | 16° 4 | 21°52 | S 10 | |
| M11 | 17 17 7 | 20°17'51 | 8♁42 | 13°25 | 5°23 | 12°10 | 11°58 | 22°19 | 17°28 | 4°52 | 3°18 | 13°51 | 14°59 | 16°11 | 21°54 | M11 | |
| T 12 | 17 21 4 | 21°15'24 | 22°51 | 14°37 | 6°27 | 12°46 | 12°11 | 22°26 | 17°28 | 4°54 | 3°18 | 13°52 | 14°56 | 16°17 | 21°56 | T 12 | |
| W13 | 17 25 0 | 22°12'55 | 7♁ 4 | 15°45 | 7°31 | 13°21 | 12°24 | 22°33 | 17°27 | 4°56 | 3°19 | 13°53 | 14°53 | 16°24 | 21°58 | W13 | |
| T 14 | 17 28 57 | 23°10'24 | 21°17 | 16°50 | 8°35 | 13°57 | 12°37 | 22°40 | 17°27 | 4°58 | 3°19 | 13°R54 | 14°49 | 16°31 | 22° 0 | T 14 | |
| F 15 | 17 32 53 | 24° 7'52 | 5♁30 | 17°52 | 9°40 | 14°33 | 12°51 | 22°47 | 17°26 | 5° 1 | 3°20 | 13°54 | 14°46 | 16°37 | 22° 2 | F 15 | |
| S 16 | 17 36 50 | 25° 5'20 | 19°38 | 18°50 | 10°44 | 15° 8 | 13° 4 | 22°53 | 17°25 | 5° 3 | 3°20 | 13°52 | 14°43 | 16°44 | 22° 4 | S 16 | |
| S 17 | 17 40 46 | 26° 2'45 | 3♁41 | 19°44 | 11°49 | 15°44 | 13°17 | 23° 0 | 17°25 | 5° 5 | 3°20 | 13°50 | 14°40 | 16°51 | 22° 6 | S 17 | |
| M18 | 17 44 43 | 27° 0'10 | 17°35 | 20°34 | 12°54 | 16°20 | 13°31 | 23° 7 | 17°25 | 5° 7 | 3°21 | 13°48 | 14°37 | 16°57 | 22° 8 | M18 | |
| T 19 | 17 48 40 | 27°57'34 | 1♁18 | 21°21 | 13°59 | 16°55 | 13°44 | 23°14 | 17°24 | 5° 9 | 3°21 | 13°46 | 14°33 | 17° 4 | 22°10 | T 19 | |
| W20 | 17 52 36 | 28°54'57 | 14°47 | 22° 3 | 15° 4 | 17°31 | 13°57 | 23°21 | 17°24 | 5°12 | 3°21 | 13°44 | 14°30 | 17°11 | 22°12 | W20 | |
| T 21 | 17 56 33 | 29°52'20 | 28° 1 | 22°42 | 16°10 | 18° 7 | 14°11 | 23°27 | 17°24 | 5°14 | 3°22 | 13°43 | 14°27 | 17°18 | 22°13 | T 21 | |
| F 22 | 18 0 29 | 0♁49'41 | 10♁58 | 23°16 | 17°16 | 18°43 | 14°24 | 23°34 | 17°24 | 5°16 | 3°22 | 13°D43 | 14°24 | 17°24 | 22°15 | F 22 | |
| S 23 | 18 4 26 | 1°47'02 | 23°40 | 23°46 | 18°21 | 19°19 | 14°38 | 23°41 | 17°23 | 5°18 | 3°22 | 13°43 | 14°21 | 17°31 | 22°17 | S 23 | |
| S 24 | 18 8 22 | 2°44'22 | 6♁ 6 | 24°12 | 19°27 | 19°55 | 14°51 | 23°47 | 17°23 | 5°21 | 3°23 | 13°44 | 14°18 | 17°38 | 22°18 | S 24 | |
| M25 | 18 12 19 | 3°41'42 | 18°19 | 24°33 | 20°34 | 20°31 | 15° 5 | 23°54 | 17°D23 | 5°23 | 3°23 | 13°44 | 14°14 | 17°44 | 22°20 | M25 | |
| T 26 | 18 16 15 | 4°39'01 | 0♁21 | 24°50 | 21°40 | 21° 7 | 15°18 | 24° 0 | 17°23 | 5°25 | 3°23 | 13°45 | 14°11 | 17°51 | 22°22 | T 26 | |
| W27 | 18 20 12 | 5°36'20 | 12°17 | 25° 3 | 22°46 | 21°43 | 15°32 | 24° 7 | 17°23 | 5°27 | 3°23 | 13°46 | 14° 8 | 17°58 | 22°23 | W27 | |
| T 28 | 18 24 9 | 6°33'38 | 24° 9 | 25°10 | 23°53 | 22°19 | 15°45 | 24°13 | 17°24 | 5°30 | 3°23 | 13°47 | 14° 5 | 18° 5 | 22°25 | T 28 | |
| F 29 | 18 28 5 | 7°30'56 | 6♂ 3 | 25°R13 | 25° 0 | 22°55 | 15°59 | 24°19 | 17°24 | 5°32 | 3°23 | 13°R47 | 14° 2 | 18°11 | 22°26 | F 29 | |
| S 30 | 18 32 2 | 8♁28'14 | 18♂ 4 | 25♁12 | 26♁ 7 | 23♁31 | 16♁12 | 24♁25 | 17♁24 | 5♁34 | 3♂23 | 13♁47 | 13♁59 | 18♁18 | 22♂27 | S 30 | |

Delta T = 17m39s

ASTRODIENST EPHEMERIS for the year 2559
geocentric

SEPTEMBER 2559

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|------|--------|-------|------|-------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| S 1 | 22 40 25 | 8♎44'03 | 6♊28 | 12♎25 | 9♎32 | 2♊29 | 0♊0 | 28♋30 | 19♊18 | 7♊33 | 2°R47 | 12°R17 | 10♌38 | 25♋21 | 22°R10 | S 1 | | | | | | | | |
| S 2 | 22 44 21 | 9°41'55 | 21°14 | 14°21 | 10°44 | 3° 7 | 0°12 | 28°31 | 19°21 | 7°35 | 2♋46 | 12♌13 | 10°35 | 25°28 | 22°R 9 | S 2 | | | | | | | | |
| M 3 | 22 48 18 | 10°39'48 | 6♎20 | 16°15 | 11°56 | 3°45 | 0°24 | 28°32 | 19°24 | 7°36 | 2°45 | 12° 6 | 10°32 | 25°34 | 22° 7 | M 3 | | | | | | | | |
| T 4 | 22 52 14 | 11°37'42 | 21°36 | 18° 8 | 13° 9 | 4°24 | 0°36 | 28°32 | 19°27 | 7°37 | 2°44 | 11°58 | 10°29 | 25°41 | 22° 5 | T 4 | | | | | | | | |
| W 5 | 22 56 11 | 12°35'38 | 6♊50 | 19°59 | 14°21 | 5° 2 | 0°48 | 28°33 | 19°30 | 7°38 | 2°43 | 11°49 | 10°26 | 25°48 | 22° 3 | W 5 | | | | | | | | |
| T 6 | 23 0 7 | 13°33'35 | 21°53 | 21°50 | 15°34 | 5°40 | 0°59 | 28°33 | 19°33 | 7°39 | 2°42 | 11°40 | 10°23 | 25°55 | 22° 1 | T 6 | | | | | | | | |
| F 7 | 23 4 4 | 14°31'33 | 6♎35 | 23°39 | 16°47 | 6°19 | 1°11 | 28°34 | 19°37 | 7°41 | 2°41 | 11°33 | 10°19 | 26° 1 | 21°59 | F 7 | | | | | | | | |
| S 8 | 23 8 1 | 15°29'33 | 20°52 | 25°27 | 17°59 | 6°57 | 1°22 | 28°34 | 19°40 | 7°42 | 2°40 | 11°29 | 10°16 | 26° 8 | 21°57 | S 8 | | | | | | | | |
| S 9 | 23 11 57 | 16°27'34 | 4♊41 | 27°13 | 19°12 | 7°35 | 1°34 | 28°34 | 19°43 | 7°43 | 2°38 | 11°26 | 10°13 | 26°15 | 21°55 | S 9 | | | | | | | | |
| M10 | 23 15 54 | 17°25'36 | 18° 3 | 28°58 | 20°25 | 8°14 | 1°45 | 28°R34 | 19°47 | 7°44 | 2°37 | 11°D26 | 10°10 | 26°21 | 21°53 | M10 | | | | | | | | |
| T 11 | 23 19 50 | 18°23'40 | 1♌ 1 | 0♊42 | 21°38 | 8°52 | 1°56 | 28°34 | 19°50 | 7°45 | 2°36 | 11°26 | 10° 7 | 26°28 | 21°51 | T 11 | | | | | | | | |
| W12 | 23 23 47 | 19°21'45 | 13°39 | 2°25 | 22°50 | 9°31 | 2° 7 | 28°34 | 19°53 | 7°46 | 2°35 | 11°R26 | 10° 3 | 26°35 | 21°49 | W12 | | | | | | | | |
| T 13 | 23 27 43 | 20°19'51 | 26° 1 | 4° 6 | 24° 3 | 10°10 | 2°18 | 28°34 | 19°57 | 7°47 | 2°34 | 11°25 | 10° 0 | 26°42 | 21°46 | T 13 | | | | | | | | |
| F 14 | 23 31 40 | 21°17'59 | 8♊11 | 5°46 | 25°16 | 10°48 | 2°29 | 28°33 | 20° 0 | 7°48 | 2°33 | 11°22 | 9°57 | 26°48 | 21°44 | F 14 | | | | | | | | |
| S 15 | 23 35 36 | 22°16'08 | 20°13 | 7°25 | 26°29 | 11°27 | 2°40 | 28°33 | 20° 4 | 7°48 | 2°31 | 11°17 | 9°54 | 26°55 | 21°42 | S 15 | | | | | | | | |
| S 16 | 23 39 33 | 23°14'19 | 2♋10 | 9° 3 | 27°43 | 12° 6 | 2°51 | 28°32 | 20° 7 | 7°49 | 2°30 | 11° 8 | 9°51 | 27° 2 | 21°40 | S 16 | | | | | | | | |
| M17 | 23 43 30 | 24°12'31 | 14° 4 | 10°40 | 28°56 | 12°44 | 3° 2 | 28°32 | 20°11 | 7°50 | 2°29 | 10°57 | 9°48 | 27° 8 | 21°37 | M17 | | | | | | | | |
| T 18 | 23 47 26 | 25°10'45 | 25°57 | 12°15 | 0♎ 9 | 13°23 | 3°12 | 28°31 | 20°14 | 7°51 | 2°28 | 10°44 | 9°44 | 27°15 | 21°35 | T 18 | | | | | | | | |
| W19 | 23 51 23 | 26° 9'01 | 7♋49 | 13°50 | 1°22 | 14° 2 | 3°23 | 28°30 | 20°18 | 7°52 | 2°27 | 10°31 | 9°41 | 27°22 | 21°33 | W19 | | | | | | | | |
| T 20 | 23 55 19 | 27° 7'18 | 19°43 | 15°23 | 2°35 | 14°41 | 3°33 | 28°29 | 20°21 | 7°52 | 2°25 | 10°18 | 9°38 | 27°29 | 21°30 | T 20 | | | | | | | | |
| F 21 | 23 59 16 | 28° 5'38 | 1♌41 | 16°55 | 3°49 | 15°20 | 3°44 | 28°28 | 20°25 | 7°53 | 2°24 | 10° 6 | 9°35 | 27°35 | 21°28 | F 21 | | | | | | | | |
| S 22 | 0 3 12 | 29° 3'59 | 13°43 | 18°26 | 5° 2 | 15°59 | 3°54 | 28°27 | 20°28 | 7°54 | 2°23 | 9°56 | 9°32 | 27°42 | 21°25 | S 22 | | | | | | | | |
| S 23 | 0 7 9 | 0♊ 2'23 | 25°53 | 19°56 | 6°16 | 16°38 | 4° 4 | 28°26 | 20°32 | 7°54 | 2°22 | 9°49 | 9°28 | 27°49 | 21°23 | S 23 | | | | | | | | |
| M24 | 0 11 5 | 1° 0'48 | 8♎15 | 21°24 | 7°29 | 17°17 | 4°14 | 28°24 | 20°36 | 7°55 | 2°21 | 9°45 | 9°25 | 27°56 | 21°20 | M24 | | | | | | | | |
| T 25 | 0 15 2 | 1°59'16 | 20°51 | 22°52 | 8°43 | 17°56 | 4°24 | 28°23 | 20°39 | 7°55 | 2°19 | 9°44 | 9°22 | 28° 2 | 21°18 | T 25 | | | | | | | | |
| W26 | 0 18 59 | 2°57'45 | 3♌46 | 24°18 | 9°57 | 18°35 | 4°34 | 28°21 | 20°43 | 7°56 | 2°18 | 9°43 | 9°19 | 28° 9 | 21°15 | W26 | | | | | | | | |
| T 27 | 0 22 55 | 3°56'17 | 17° 4 | 25°43 | 11°10 | 19°14 | 4°44 | 28°19 | 20°46 | 7°57 | 2°17 | 9°43 | 9°16 | 28°16 | 21°13 | T 27 | | | | | | | | |
| F 28 | 0 26 52 | 4°54'51 | 0♊48 | 27° 7 | 12°24 | 19°53 | 4°53 | 28°17 | 20°50 | 7°57 | 2°16 | 9°42 | 9°13 | 28°22 | 21°10 | F 28 | | | | | | | | |
| S 29 | 0 30 48 | 5°53'27 | 15° 0 | 28°30 | 13°38 | 20°32 | 5° 3 | 28°16 | 20°54 | 7°57 | 2°14 | 9°39 | 9° 9 | 28°29 | 21° 8 | S 29 | | | | | | | | |
| S 30 | 0 34 45 | 6♊52'06 | 29♎39 | 29♊52 | 14♎52 | 21♊12 | 5♊12 | 28♋14 | 20♊58 | 7♊58 | 2°R13 | 9♌33 | 9♌ 6 | 28♋36 | 21°R 5 | S 30 | | | | | | | | |

Delta T = 17m40s

OCTOBER 2559

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|--------|-------|-------|------|--------|-------|-------|-------|-------|------|-------|--------|------|---|---|---|---|---|---|---|-----|
| M 1 | 0 38 41 | 7♊50'46 | 14♎40 | 11♎12 | 16♎ 5 | 21♊51 | 5♊22 | 28°R11 | 21♊ 1 | 7♊58 | 2°R12 | 9°R25 | 9♌ 3 | 28♋43 | 21°R 2 | M 1 | | | | | | | | |
| T 2 | 0 42 38 | 8°49'28 | 29°56 | 2°31 | 17°19 | 22°30 | 5°31 | 28♋ 9 | 21° 5 | 7°58 | 2°R11 | 9♌15 | 9° 0 | 28°49 | 21°R 0 | T 2 | | | | | | | | |
| W 3 | 0 46 34 | 9°48'13 | 15♊14 | 3°49 | 18°33 | 23°10 | 5°40 | 28° 7 | 21° 9 | 7°59 | 2°10 | 9° 3 | 8°57 | 28°56 | 20°57 | W 3 | | | | | | | | |
| T 4 | 0 50 31 | 10°46'59 | 0♎25 | 5° 5 | 19°47 | 23°49 | 5°49 | 28° 5 | 21°12 | 7°59 | 2° 8 | 8°53 | 8°54 | 29° 3 | 20°54 | T 4 | | | | | | | | |
| F 5 | 0 54 27 | 11°45'47 | 15°18 | 6°19 | 21° 1 | 24°28 | 5°58 | 28° 2 | 21°16 | 7°59 | 2° 7 | 8°43 | 8°50 | 29° 9 | 20°52 | F 5 | | | | | | | | |
| S 6 | 0 58 24 | 12°44'37 | 29°44 | 7°32 | 22°15 | 25° 8 | 6° 7 | 27°59 | 21°20 | 7°59 | 2° 6 | 8°37 | 8°47 | 29°16 | 20°49 | S 6 | | | | | | | | |
| S 7 | 1 2 21 | 13°43'28 | 13♊41 | 8°44 | 23°30 | 25°48 | 6°15 | 27°57 | 21°24 | 8° 0 | 2° 5 | 8°33 | 8°44 | 29°23 | 20°46 | S 7 | | | | | | | | |
| M 8 | 1 6 17 | 14°42'22 | 27° 9 | 9°53 | 24°44 | 26°27 | 6°24 | 27°54 | 21°28 | 8° 0 | 2° 4 | 8°31 | 8°41 | 29°30 | 20°44 | M 8 | | | | | | | | |
| T 9 | 1 10 14 | 15°41'17 | 10♌10 | 11° 1 | 25°58 | 27° 7 | 6°32 | 27°51 | 21°31 | 8° 0 | 2° 3 | 8°31 | 8°38 | 29°36 | 20°41 | T 9 | | | | | | | | |
| W10 | 1 14 10 | 16°40'14 | 22°47 | 12° 7 | 27°12 | 27°46 | 6°40 | 27°48 | 21°35 | 8° 0 | 2° 1 | 8°31 | 8°34 | 29°43 | 20°38 | W10 | | | | | | | | |
| T 11 | 1 18 7 | 17°39'12 | 5♊ 7 | 13°10 | 28°26 | 28°26 | 6°48 | 27°45 | 21°39 | 8°R 0 | 2° 0 | 8°30 | 8°31 | 29°50 | 20°35 | T 11 | | | | | | | | |
| F 12 | 1 22 3 | 18°38'12 | 17°13 | 14°11 | 29°41 | 29° 6 | 6°56 | 27°42 | 21°43 | 8° 0 | 1°59 | 8°27 | 8°28 | 29°57 | 20°33 | F 12 | | | | | | | | |
| S 13 | 1 26 0 | 19°37'14 | 29°11 | 15°10 | 0♊55 | 29°46 | 7° 4 | 27°39 | 21°46 | 8° 0 | 1°58 | 8°21 | 8°25 | 0°R 3 | 20°30 | S 13 | | | | | | | | |
| S 14 | 1 29 56 | 20°36'18 | 11♋ 4 | 16° 5 | 2° 9 | 0♎26 | 7°12 | 27°36 | 21°50 | 8° 0 | 1°57 | 8°13 | 8°22 | 0°10 | 20°27 | S 14 | | | | | | | | |
| M15 | 1 33 53 | 21°35'23 | 22°55 | 16°58 | 3°24 | 1° 5 | 7°19 | 27°32 | 21°54 | 8° 0 | 1°56 | 8° 2 | 8°19 | 0°17 | 20°25 | M15 | | | | | | | | |
| T 16 | 1 37 50 | 22°34'31 | 4°R48 | 17°48 | 4°38 | 1°45 | 7°27 | 27°29 | 21°58 | 8° 0 | 1°54 | 7°49 | 8°15 | 0°23 | 20°22 | T 16 | | | | | | | | |
| W17 | 1 41 46 | 23°33'40 | 16°43 | 18°33 | 5°53 | 2°25 | 7°34 | 27°25 | 22° 2 | 7°59 | 1°53 | 7°35 | 8°12 | 0°30 | 20°19 | W17 | | | | | | | | |
| T 18 | 1 45 43 | 24°32'51 | 28°43 | 19°15 | 7° 7 | 3° 5 | 7°41 | 27°22 | 22° 5 | 7°59 | 1°52 | 7°22 | 8° 9 | 0°37 | 20°16 | T 18 | | | | | | | | |
| F 19 | 1 49 39 | 25°32'05 | 10♋48 | 19°53 | 8°22 | 3°45 | 7°48 | 27°18 | 22° 9 | 7°59 | 1°51 | 7°10 | 8° 6 | 0°44 | 20°14 | F 19 | | | | | | | | |
| S 20 | 1 53 36 | 26°31'20 | 23° 0 | 20°26 | 9°36 | 4°25 | 7°55 | 27°14 | 22°13 | 7°59 | 1°50 | 7° 0 | 8° 3 | 0°50 | 20°11 | S 20 | | | | | | | | |
| S 21 | 1 57 32 | 27°30'38 | 5♎20 | 20°53 | 10°51 | 5° 6 | 8° 2 | 27°10 | 22°17 | 7°58 | 1°49 | 6°53 | 7°59 | 0°57 | 20° 8 | S 21 | | | | | | | | |
| M22 | 2 1 29 | 28°29'57 | 17°50 | 21°16 | 12° 6 | 5°46 | 8° 8 | 27° 6 | 22°21 | 7°58 | 1°48 | 6°49 | 7°56 | 1° 4 | 20° 6 | M22 | | | | | | | | |
| T 23 | 2 5 25 | 29°29'19 | 0♌32 | 21°32 | 13°20 | 6°26 | 8°15 | 27° 3 | 22°24 | 7°58 | 1°47 | 6°47 | 7°53 | 1°10 | 20° 3 | T 23 | | | | | | | | |
| W24 | 2 9 22 | 0♎28'44 | 13°29 | 21°41 | 14°35 | 7° 6 | 8°21 | 26°59 | 22°28 | 7°57 | 1°46 | 6°D47 | 7°50 | 1°17 | 20° 0 | W24 | | | | | | | | |
| T 25 | 2 13 19 | 1°28'10 | 26°45 | 21°R43 | 15°50 | 7°47 | 8°27 | 26°54 | 22°32 | 7°57 | 1°45 | 6°R48 | 7°47 | 1°24 | 19°58 | T 25 | | | | | | | | |
| F 26 | 2 17 15 | 2°27'39 | 10♊22 | 21°38 | 17° 5 | 8°27 | 8°33 | 26°50 | 22°36 | 7°56 | 1°44 | 6°48 | 7°44 | 1°31 | 19°55 | F 26 | | | | | | | | |
| S 27 | 2 21 12 | 3°27'10 | 24°22 | 21°24 | 18°19 | 9° 7 | 8°39 | 26°46 | 22°39 | 7°56 | 1°43 | 6°46 | 7°40 | 1°37 | 19°52 | S 27 | | | | | | | | |
| S 28 | 2 25 8 | 4°26'44 | 8♎46 | 21° 2 | 19°34 | 9°48 | 8°44 | 26°42 | 22°43 | 7°55 | 1°42 | 6°42 | 7°37 | 1°44 | 19°50 | S 28 | | | | | | | | |
| M29 | 2 29 5 | 5°26'19 | 23°30 | 20°32 | 20°49 | 10°28 | 8°50 | 26°38 | 22°47 | 7°55 | 1°41 | 6°35 | 7°34 | 1°51 | 19°47 | M29 | | | | | | | | |
| T 30 | 2 33 1 | 6°25'57 | 8♊28 | 19°52 | 22° 4 | 11° 9 | 8°55 | 26°33 | 22°51 | 7°54 | 1°40 | 6°27 | 7°31 | 1°57 | 19°45 | T 30 | | | | | | | | |
| W31 | 2 36 58 | 7♎25'37 | 23♊34 | 19♎ 5 | 23♊19 | 11♎50 | 9♊0 | 26♋29 | 22♊54 | 7♊53 | 1°R39 | 6♌18 | 7♌28 | 2°R 4 | 19°R42 | W31 | | | | | | | | |

Delta T = 17m40s

ASTRODIENST EPHEMERIS for the year 2559
geocentric

NOVEMBER 2559

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ | ♅ | ♆ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|--------|-------|-------|-------|-------|------|-------|--------|------|-----|
| T 1 | 2 40 54 | 8♄25°19 | 8♄36 | 18°R 9 | 24♄34 | 12♄30 | 9♄ 5 | 26°R24 | 22♄58 | 7°R53 | 1°R38 | 6°R 9 | 7♄25 | 2°V11 | 19°R39 | T 1 | |
| F 2 | 2 44 51 | 9°25'03 | 23°24 | 17♄ 5 | 25°49 | 13°11 | 9°10 | 26♄20 | 23° 2 | 7♄52 | 1°V37 | 6♄ 1 | 7°21 | 2°18 | 19°V37 | F 2 | |
| S 3 | 2 48 48 | 10°24'49 | 7♄52 | 15°56 | 27° 4 | 13°52 | 9°14 | 26°15 | 23° 5 | 7°51 | 1°36 | 5°55 | 7°18 | 2°24 | 19°34 | S 3 | |
| S 4 | 2 52 44 | 11°24'36 | 21°53 | 14°42 | 28°19 | 14°32 | 9°19 | 26°11 | 23° 9 | 7°51 | 1°35 | 5°52 | 7°15 | 2°31 | 19°32 | S 4 | |
| M 5 | 2 56 41 | 12°24'26 | 5♄27 | 13°26 | 29°34 | 15°13 | 9°23 | 26° 6 | 23°13 | 7°50 | 1°34 | 5°D51 | 7°12 | 2°38 | 19°29 | M 5 | |
| T 6 | 3 0 37 | 13°24'17 | 18°33 | 12°10 | 0♄49 | 15°54 | 9°27 | 26° 1 | 23°16 | 7°49 | 1°33 | 5°52 | 7° 9 | 2°45 | 19°27 | T 6 | |
| W 7 | 3 4 34 | 14°24'10 | 1♄15 | 10°56 | 2° 4 | 16°35 | 9°31 | 25°57 | 23°20 | 7°48 | 1°33 | 5°53 | 7° 5 | 2°51 | 19°25 | W 7 | |
| T 8 | 3 8 30 | 15°24'04 | 13°38 | 9°46 | 3°19 | 17°16 | 9°35 | 25°52 | 23°24 | 7°47 | 1°32 | 5°R54 | 7° 2 | 2°58 | 19°22 | T 8 | |
| F 9 | 3 12 27 | 16°24'00 | 25°45 | 8°43 | 4°34 | 17°57 | 9°38 | 25°47 | 23°27 | 7°46 | 1°31 | 5°53 | 6°59 | 3° 5 | 19°20 | F 9 | |
| S 10 | 3 16 23 | 17°23'58 | 7♄43 | 7°48 | 5°49 | 18°38 | 9°42 | 25°43 | 23°31 | 7°45 | 1°30 | 5°51 | 6°56 | 3°11 | 19°18 | S 10 | |
| S 11 | 3 20 20 | 18°23'57 | 19°35 | 7° 3 | 7° 4 | 19°19 | 9°45 | 25°38 | 23°34 | 7°44 | 1°29 | 5°46 | 6°53 | 3°18 | 19°15 | S 11 | |
| M12 | 3 24 17 | 19°23'58 | 1°V27 | 6°29 | 8°19 | 20° 0 | 9°48 | 25°33 | 23°38 | 7°44 | 1°29 | 5°40 | 6°50 | 3°25 | 19°13 | M12 | |
| T 13 | 3 28 13 | 20°24'00 | 13°21 | 6° 7 | 9°34 | 20°42 | 9°51 | 25°28 | 23°41 | 7°42 | 1°28 | 5°32 | 6°46 | 3°32 | 19°11 | T 13 | |
| W14 | 3 32 10 | 21°24'04 | 25°21 | 5°D56 | 10°50 | 21°23 | 9°53 | 25°23 | 23°45 | 7°41 | 1°27 | 5°23 | 6°43 | 3°38 | 19° 9 | W14 | |
| T 15 | 3 36 6 | 22°24'10 | 7♄28 | 5°57 | 12° 5 | 22° 4 | 9°56 | 25°19 | 23°48 | 7°40 | 1°27 | 5°15 | 6°40 | 3°45 | 19° 6 | T 15 | |
| F 16 | 3 40 3 | 23°24'17 | 19°44 | 6° 8 | 13°20 | 22°45 | 9°58 | 25°14 | 23°52 | 7°39 | 1°26 | 5° 7 | 6°37 | 3°52 | 19° 4 | F 16 | |
| S 17 | 3 43 59 | 24°24'26 | 2♄10 | 6°30 | 14°35 | 23°27 | 10° 0 | 25° 9 | 23°55 | 7°38 | 1°25 | 5° 2 | 6°34 | 3°59 | 19° 2 | S 17 | |
| S 18 | 3 47 56 | 25°24'38 | 14°46 | 7° 2 | 15°50 | 24° 8 | 10° 2 | 25° 4 | 23°58 | 7°37 | 1°25 | 4°58 | 6°31 | 4° 5 | 19° 0 | S 18 | |
| M19 | 3 51 52 | 26°24'50 | 27°33 | 7°42 | 17° 6 | 24°50 | 10° 3 | 24°59 | 24° 2 | 7°36 | 1°24 | 4°56 | 6°27 | 4°12 | 18°58 | M19 | |
| T 20 | 3 55 49 | 27°25'05 | 10♄31 | 8°29 | 18°21 | 25°31 | 10° 5 | 24°54 | 24° 5 | 7°35 | 1°23 | 4°D56 | 6°24 | 4°19 | 18°56 | T 20 | |
| W21 | 3 59 46 | 28°25'22 | 23°42 | 9°24 | 19°36 | 26°13 | 10° 6 | 24°50 | 24° 8 | 7°33 | 1°23 | 4°57 | 6°21 | 4°25 | 18°54 | W21 | |
| T 22 | 4 3 42 | 29°25'41 | 7♄ 7 | 10°24 | 20°51 | 26°54 | 10° 7 | 24°45 | 24°12 | 7°32 | 1°22 | 4°58 | 6°18 | 4°32 | 18°52 | T 22 | |
| F 23 | 4 7 39 | 0♄26°01 | 20°47 | 11°30 | 22° 7 | 27°36 | 10° 8 | 24°40 | 24°15 | 7°31 | 1°22 | 4°59 | 6°15 | 4°39 | 18°50 | F 23 | |
| S 24 | 4 11 35 | 1°26'24 | 4♄42 | 12°40 | 23°22 | 28°18 | 10° 9 | 24°35 | 24°18 | 7°30 | 1°21 | 5°R 0 | 6°11 | 4°46 | 18°48 | S 24 | |
| S 25 | 4 15 32 | 2°26'48 | 18°53 | 13°54 | 24°37 | 28°59 | 10° 9 | 24°30 | 24°21 | 7°28 | 1°21 | 4°59 | 6° 8 | 4°52 | 18°47 | S 25 | |
| M26 | 4 19 28 | 3°27'14 | 3♄17 | 15°12 | 25°53 | 29°41 | 10°10 | 24°26 | 24°25 | 7°27 | 1°20 | 4°56 | 6° 5 | 4°59 | 18°45 | M26 | |
| T 27 | 4 23 25 | 4°27'42 | 17°51 | 16°32 | 27° 8 | 0♄23 | 10°R10 | 24°21 | 24°28 | 7°26 | 1°20 | 4°52 | 6° 2 | 5° 6 | 18°43 | T 27 | |
| W28 | 4 27 21 | 5°28'12 | 2♄30 | 17°54 | 28°23 | 1° 5 | 10°10 | 24°16 | 24°31 | 7°24 | 1°19 | 4°48 | 5°59 | 5°12 | 18°41 | W28 | |
| T 29 | 4 31 18 | 6°28'44 | 17° 7 | 19°19 | 29°39 | 1°47 | 10° 9 | 24°11 | 24°34 | 7°23 | 1°19 | 4°44 | 5°56 | 5°19 | 18°40 | T 29 | |
| F 30 | 4 35 15 | 7♄29°17 | 1♄36 | 20♄45 | 0♄54 | 2♄29 | 10♄ 9 | 24♄ 7 | 24♄37 | 7♄22 | 1°V19 | 4♄40 | 5♄52 | 5°V26 | 18°V38 | F 30 | |

Delta T = 17m41s

DECEMBER 2559

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ | ♅ | ♆ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|------|-------|--------|------|-----|
| S 1 | 4 39 11 | 8♄29°52 | 15♄50 | 22♄13 | 2♄10 | 3♄11 | 10°R 8 | 24°R 2 | 24♄40 | 7°R20 | 1°R18 | 4°R37 | 5♄49 | 5°V33 | 18°R37 | S 1 | |
| S 2 | 4 43 8 | 9°30'28 | 29°44 | 23°42 | 3°25 | 3°53 | 10♄ 7 | 23♄57 | 24°43 | 7♄19 | 1°V18 | 4°D36 | 5°46 | 5°39 | 18°V35 | S 2 | |
| M 3 | 4 47 4 | 10°31'06 | 13♄15 | 25°12 | 4°40 | 4°35 | 10° 6 | 23°53 | 24°46 | 7°17 | 1°18 | 4♄37 | 5°43 | 5°46 | 18°34 | M 3 | |
| T 4 | 4 51 1 | 11°31'44 | 26°23 | 26°42 | 5°56 | 5°17 | 10° 5 | 23°48 | 24°49 | 7°16 | 1°17 | 4°38 | 5°40 | 5°53 | 18°32 | T 4 | |
| W 5 | 4 54 57 | 12°32'24 | 9♄ 9 | 28°13 | 7°11 | 6° 0 | 10° 3 | 23°44 | 24°52 | 7°14 | 1°17 | 4°39 | 5°37 | 6° 0 | 18°31 | W 5 | |
| T 6 | 4 58 54 | 13°33'05 | 21°35 | 29°45 | 8°27 | 6°42 | 10° 2 | 23°40 | 24°55 | 7°13 | 1°17 | 4°41 | 5°33 | 6° 6 | 18°30 | T 6 | |
| F 7 | 5 2 50 | 14°33'47 | 3♄46 | 1♄17 | 9°42 | 7°24 | 10° 0 | 23°35 | 24°57 | 7°11 | 1°17 | 4°42 | 5°30 | 6°13 | 18°29 | F 7 | |
| S 8 | 5 6 47 | 15°34'30 | 15°46 | 2°49 | 10°57 | 8° 6 | 9°58 | 23°31 | 25° 0 | 7°10 | 1°16 | 4°R42 | 5°27 | 6°20 | 18°27 | S 8 | |
| S 9 | 5 10 44 | 16°35'14 | 27°40 | 4°22 | 12°13 | 8°49 | 9°55 | 23°27 | 25° 3 | 7° 8 | 1°16 | 4°42 | 5°24 | 6°26 | 18°26 | S 9 | |
| M10 | 5 14 40 | 17°35'59 | 9°V32 | 5°55 | 13°28 | 9°31 | 9°53 | 23°22 | 25° 5 | 7° 6 | 1°16 | 4°41 | 5°21 | 6°33 | 18°25 | M10 | |
| T 11 | 5 18 37 | 18°36'45 | 21°28 | 7°28 | 14°44 | 10°14 | 9°50 | 23°18 | 25° 8 | 7° 5 | 1°16 | 4°39 | 5°17 | 6°40 | 18°24 | T 11 | |
| W12 | 5 22 33 | 19°37'32 | 3♄30 | 9° 1 | 15°59 | 10°56 | 9°47 | 23°14 | 25°11 | 7° 3 | 1°16 | 4°36 | 5°14 | 6°47 | 18°23 | W12 | |
| T 13 | 5 26 30 | 20°38'20 | 15°43 | 10°35 | 17°15 | 11°39 | 9°44 | 23°10 | 25°13 | 7° 2 | 1°16 | 4°34 | 5°11 | 6°53 | 18°22 | T 13 | |
| F 14 | 5 30 26 | 21°39'09 | 28° 8 | 12° 8 | 18°30 | 12°22 | 9°41 | 23° 6 | 25°16 | 7° 0 | 1°16 | 4°32 | 5° 8 | 7° 0 | 18°21 | F 14 | |
| S 15 | 5 34 23 | 22°39'58 | 10♄48 | 13°41 | 19°46 | 13° 4 | 9°38 | 23° 2 | 25°18 | 6°58 | 1°D16 | 4°31 | 5° 5 | 7° 7 | 18°20 | S 15 | |
| S 16 | 5 38 19 | 23°40'49 | 23°42 | 15°15 | 21° 1 | 13°47 | 9°34 | 22°58 | 25°21 | 6°57 | 1°16 | 4°30 | 5° 2 | 7°14 | 18°20 | S 16 | |
| M17 | 5 42 16 | 24°41'41 | 6♄52 | 16°48 | 22°16 | 14°30 | 9°30 | 22°55 | 25°23 | 6°55 | 1°16 | 4°D30 | 4°58 | 7°20 | 18°19 | M17 | |
| T 18 | 5 46 13 | 25°42'34 | 20°15 | 18°22 | 23°32 | 15°13 | 9°26 | 22°51 | 25°25 | 6°54 | 1°16 | 4°30 | 4°55 | 7°27 | 18°18 | T 18 | |
| W19 | 5 50 9 | 26°43'28 | 3♄51 | 19°55 | 24°47 | 15°55 | 9°22 | 22°47 | 25°28 | 6°52 | 1°16 | 4°31 | 4°52 | 7°34 | 18°18 | W19 | |
| T 20 | 5 54 6 | 27°44'23 | 17°38 | 21°29 | 26° 3 | 16°38 | 9°18 | 22°44 | 25°30 | 6°50 | 1°16 | 4°31 | 4°49 | 7°40 | 18°17 | T 20 | |
| F 21 | 5 58 2 | 28°45'19 | 1♄34 | 23° 3 | 27°18 | 17°21 | 9°13 | 22°40 | 25°32 | 6°49 | 1°16 | 4°32 | 4°46 | 7°47 | 18°16 | F 21 | |
| S 22 | 6 1 59 | 29°46'16 | 15°38 | 24°36 | 28°34 | 18° 4 | 9° 8 | 22°37 | 25°34 | 6°47 | 1°16 | 4°32 | 4°43 | 7°54 | 18°16 | S 22 | |
| S 23 | 6 5 55 | 0♄37°15 | 29°46 | 26°10 | 29°49 | 18°47 | 9° 3 | 22°34 | 25°36 | 6°45 | 1°16 | 4°R32 | 4°39 | 8° 1 | 18°16 | S 23 | |
| M24 | 6 9 52 | 1°48'14 | 13♄59 | 27°44 | 1♄ 5 | 19°30 | 8°58 | 22°31 | 25°39 | 6°43 | 1°17 | 4°32 | 4°36 | 8° 7 | 18°15 | M24 | |
| T 25 | 6 13 49 | 2°49'15 | 28°12 | 29°18 | 2°20 | 20°14 | 8°53 | 22°28 | 25°41 | 6°42 | 1°17 | 4°32 | 4°33 | 8°14 | 18°15 | T 25 | |
| W26 | 6 17 45 | 3°50'16 | 12♄24 | 0♄52 | 3°36 | 20°57 | 8°48 | 22°25 | 25°43 | 6°40 | 1°17 | 4°32 | 4°30 | 8°21 | 18°15 | W26 | |
| T 27 | 6 21 42 | 4°51'19 | 26°31 | 2°27 | 4°51 | 21°40 | 8°42 | 22°22 | 25°44 | 6°38 | 1°17 | 4°D32 | 4°27 | 8°27 | 18°14 | T 27 | |
| F 28 | 6 25 38 | 5°52'22 | 10♄31 | 4° 1 | 6° 7 | 22°23 | 8°37 | 22°19 | 25°46 | 6°37 | 1°18 | 4°32 | 4°23 | 8°34 | 18°14 | F 28 | |
| S 29 | 6 29 35 | 6°53'26 | 24°19 | 5°36 | 7°22 | 23° 7 | 8°31 | 22°16 | 25°48 | 6°35 | 1°18 | 4°32 | 4°20 | 8°41 | 18°14 | S 29 | |
| S 30 | 6 33 31 | 7°54'31 | 7♄53 | 7°10 | 8°38 | 23°50 | 8°25 | 22°13 | 25°50 | 6°33 | 1°18 | 4°R32 | 4°17 | 8°48 | 18°D14 | S 30 | |
| M31 | 6 37 28 | 8♄55'36 | 21♄11 | 8♄45 | 9♄53 | 24♄34 | 8♄19 | 22♄11 | 25♄52 | 6♄32 | 1°V19 | 4♄32 | 4♄14 | 8°V54 | 18°V14 | M31 | |

Delta T = 17m41s

ASTRODIENST EPHEMERIS for the year 2560
geocentric

JANUARY 2560

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|--------|--------|------|---|---|---|---|---|---|---|-----|
| T 1 | 6 41 24 | 9♌56'42 | 4♋11 | 10♌20 | 11♌9 | 25♌17 | 8♏R13 | 22♏R 8 | 25♌53 | 6♏R30 | 1♏R19 | 4♏R32 | 4♌11 | 9♏R 1 | 18♏R14 | T 1 | | | | | | | | |
| W 2 | 6 45 21 | 10♌57'48 | 16°53 | 11°56 | 12°24 | 26° 1 | 8♏R 6 | 22♏R 6 | 25°55 | 6♌28 | 1°19 | 4♌31 | 4° 8 | 9° 8 | 18°15 | W 2 | | | | | | | | |
| T 3 | 6 49 18 | 11°58'54 | 29°20 | 13°31 | 13°40 | 26°44 | 8° 0 | 22° 4 | 25°57 | 6°26 | 1°20 | 4°30 | 4° 4 | 9°15 | 18°15 | T 3 | | | | | | | | |
| F 4 | 6 53 14 | 13° 0'01 | 11♌32 | 15° 7 | 14°55 | 27°28 | 7°53 | 22° 2 | 25°58 | 6°25 | 1°20 | 4°29 | 4° 1 | 9°21 | 18°15 | F 4 | | | | | | | | |
| S 5 | 6 57 11 | 14° 1'07 | 23°33 | 16°43 | 16°11 | 28°11 | 7°46 | 21°59 | 25°59 | 6°23 | 1°21 | 4°28 | 3°58 | 9°28 | 18°15 | S 5 | | | | | | | | |
| S 6 | 7 1 7 | 15° 2'14 | 5♏R28 | 18°20 | 17°26 | 28°55 | 7°39 | 21°58 | 26° 1 | 6°21 | 1°21 | 4°27 | 3°55 | 9°35 | 18°16 | S 6 | | | | | | | | |
| M 7 | 7 5 4 | 16° 3'20 | 17°20 | 19°56 | 18°42 | 29°39 | 7°32 | 21°56 | 26° 2 | 6°20 | 1°22 | 4°D27 | 3°52 | 9°41 | 18°16 | M 7 | | | | | | | | |
| T 8 | 7 9 0 | 17° 4'27 | 29°15 | 21°33 | 19°57 | 0♌23 | 7°25 | 21°54 | 26° 4 | 6°18 | 1°22 | 4°27 | 3°49 | 9°48 | 18°17 | T 8 | | | | | | | | |
| W 9 | 7 12 57 | 18° 5'34 | 11♌17 | 23°10 | 21°13 | 1° 6 | 7°18 | 21°52 | 26° 5 | 6°16 | 1°23 | 4°28 | 3°45 | 9°55 | 18°17 | W 9 | | | | | | | | |
| T 10 | 7 16 53 | 19° 6'40 | 23°30 | 24°48 | 22°28 | 1°50 | 7°11 | 21°51 | 26° 6 | 6°15 | 1°24 | 4°30 | 3°42 | 10° 2 | 18°18 | T 10 | | | | | | | | |
| F 11 | 7 20 50 | 20° 7'46 | 5♏R59 | 26°25 | 23°44 | 2°34 | 7° 3 | 21°49 | 26° 7 | 6°13 | 1°24 | 4°31 | 3°39 | 10° 8 | 18°18 | F 11 | | | | | | | | |
| S 12 | 7 24 47 | 21° 8'53 | 18°47 | 28° 3 | 24°59 | 3°18 | 6°56 | 21°48 | 26° 8 | 6°11 | 1°25 | 4°32 | 3°36 | 10°15 | 18°19 | S 12 | | | | | | | | |
| S 13 | 7 28 43 | 22° 9'59 | 1♌56 | 29°41 | 26°15 | 4° 2 | 6°48 | 21°47 | 26° 9 | 6°10 | 1°25 | 4°R33 | 3°33 | 10°22 | 18°20 | S 13 | | | | | | | | |
| M14 | 7 32 40 | 23°11'05 | 15°25 | 1♌20 | 27°30 | 4°46 | 6°41 | 21°46 | 26°10 | 6° 8 | 1°26 | 4°32 | 3°29 | 10°29 | 18°21 | M14 | | | | | | | | |
| T 15 | 7 36 36 | 24°12'11 | 29°14 | 2°59 | 28°46 | 5°30 | 6°33 | 21°45 | 26°11 | 6° 7 | 1°27 | 4°31 | 3°26 | 10°35 | 18°21 | T 15 | | | | | | | | |
| W16 | 7 40 33 | 25°13'17 | 13♏R19 | 4°37 | 0♋1 | 6°14 | 6°25 | 21°44 | 26°12 | 6° 5 | 1°28 | 4°29 | 3°23 | 10°42 | 18°22 | W16 | | | | | | | | |
| T 17 | 7 44 29 | 26°14'23 | 27°36 | 6°16 | 1°17 | 6°59 | 6°17 | 21°43 | 26°13 | 6° 3 | 1°28 | 4°26 | 3°20 | 10°49 | 18°23 | T 17 | | | | | | | | |
| F 18 | 7 48 26 | 27°15'29 | 12♏R 0 | 7°55 | 2°32 | 7°43 | 6° 9 | 21°42 | 26°14 | 6° 2 | 1°29 | 4°22 | 3°17 | 10°55 | 18°24 | F 18 | | | | | | | | |
| S 19 | 7 52 22 | 28°16'35 | 26°25 | 9°34 | 3°47 | 8°27 | 6° 2 | 21°42 | 26°14 | 6° 0 | 1°30 | 4°19 | 3°14 | 11° 2 | 18°25 | S 19 | | | | | | | | |
| S 20 | 7 56 19 | 29°17'42 | 10♌47 | 11°13 | 5° 3 | 9°11 | 5°54 | 21°41 | 26°15 | 5°59 | 1°31 | 4°17 | 3°10 | 11° 9 | 18°27 | S 20 | | | | | | | | |
| M21 | 8 0 16 | 0♋R18'48 | 25° 2 | 12°52 | 6°18 | 9°56 | 5°46 | 21°41 | 26°16 | 5°57 | 1°32 | 4°D16 | 3° 7 | 11°16 | 18°28 | M21 | | | | | | | | |
| T 22 | 8 4 12 | 1°19'54 | 9♏R 7 | 14°30 | 7°34 | 10°40 | 5°38 | 21°41 | 26°16 | 5°56 | 1°32 | 4°16 | 3° 4 | 11°22 | 18°29 | T 22 | | | | | | | | |
| W23 | 8 8 9 | 2°21'00 | 23° 2 | 16° 7 | 8°49 | 11°25 | 5°30 | 21°D41 | 26°17 | 5°54 | 1°33 | 4°17 | 3° 1 | 11°29 | 18°30 | W23 | | | | | | | | |
| T 24 | 8 12 5 | 3°22'06 | 6♌45 | 17°44 | 10° 5 | 12° 9 | 5°22 | 21°41 | 26°17 | 5°53 | 1°34 | 4°19 | 2°58 | 11°36 | 18°32 | T 24 | | | | | | | | |
| F 25 | 8 16 2 | 4°23'12 | 20°17 | 19°21 | 11°20 | 12°54 | 5°13 | 21°41 | 26°17 | 5°51 | 1°35 | 4°20 | 2°55 | 11°42 | 18°33 | F 25 | | | | | | | | |
| S 26 | 8 19 58 | 5°24'18 | 3♌37 | 20°55 | 12°35 | 13°38 | 5° 5 | 21°41 | 26°18 | 5°50 | 1°36 | 4°R21 | 2°51 | 11°49 | 18°34 | S 26 | | | | | | | | |
| S 27 | 8 23 55 | 6°25'24 | 16°46 | 22°29 | 13°51 | 14°23 | 4°57 | 21°42 | 26°18 | 5°49 | 1°37 | 4°20 | 2°48 | 11°56 | 18°36 | S 27 | | | | | | | | |
| M28 | 8 27 51 | 7°26'29 | 29°43 | 24° 0 | 15° 6 | 15° 7 | 4°49 | 21°42 | 26°18 | 5°47 | 1°38 | 4°18 | 2°45 | 12° 3 | 18°37 | M28 | | | | | | | | |
| T 29 | 8 31 48 | 8°27'34 | 12♌27 | 25°29 | 16°22 | 15°52 | 4°41 | 21°43 | 26°18 | 5°46 | 1°39 | 4°14 | 2°42 | 12° 9 | 18°39 | T 29 | | | | | | | | |
| W30 | 8 35 45 | 9°28'38 | 24°59 | 26°56 | 17°37 | 16°37 | 4°33 | 21°43 | 26°18 | 5°44 | 1°40 | 4° 8 | 2°39 | 12°16 | 18°41 | W30 | | | | | | | | |
| T 31 | 8 39 41 | 10°29'41 | 7♌19 | 28°19 | 18°52 | 17♌22 | 4♏R25 | 21♌44 | 26°R18 | 5♌43 | 1°R41 | 4♌ 1 | 2♌35 | 12°R23 | 18°R42 | T 31 | | | | | | | | |

Delta T = 17m41s

FEBRUARY 2560

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|--------|--------|------|---|---|---|---|---|---|---|-----|
| F 1 | 8 43 38 | 11°30'43 | 19♌28 | 29°38 | 20°38 | 18♌6 | 4°R17 | 21♌45 | 26°R18 | 5°R42 | 1°R42 | 3°R54 | 2♌32 | 12°R30 | 18°R44 | F 1 | | | | | | | | |
| S 2 | 8 47 34 | 12°31'45 | 1°R28 | 0♌52 | 21°23 | 18°51 | 4♏R 9 | 21°46 | 26°18 | 5♌40 | 1°43 | 3♌47 | 2°29 | 12°36 | 18°46 | S 2 | | | | | | | | |
| S 3 | 8 51 31 | 13°32'46 | 13°22 | 2° 1 | 22°38 | 19°36 | 4° 1 | 21°47 | 26°18 | 5°39 | 1°44 | 3°42 | 2°26 | 12°43 | 18°48 | S 3 | | | | | | | | |
| M 4 | 8 55 27 | 14°33'45 | 25°13 | 3° 4 | 23°54 | 20°21 | 3°54 | 21°48 | 26°18 | 5°38 | 1°45 | 3°38 | 2°23 | 12°50 | 18°50 | M 4 | | | | | | | | |
| T 5 | 8 59 24 | 15°34'44 | 7♌ 5 | 4° 0 | 25° 9 | 21° 6 | 3°46 | 21°50 | 26°17 | 5°37 | 1°47 | 3°35 | 2°20 | 12°56 | 18°51 | T 5 | | | | | | | | |
| W 6 | 9 3 20 | 16°35'42 | 19° 4 | 4°48 | 26°24 | 21°51 | 3°38 | 21°51 | 26°17 | 5°35 | 1°48 | 3°D35 | 2°16 | 13° 3 | 18°53 | W 6 | | | | | | | | |
| T 7 | 9 7 17 | 17°36'38 | 1♏R14 | 5°28 | 27°40 | 22°36 | 3°30 | 21°53 | 26°17 | 5°34 | 1°49 | 3°36 | 2°13 | 13°10 | 18°55 | T 7 | | | | | | | | |
| F 8 | 9 11 14 | 18°37'34 | 13°41 | 5°58 | 28°55 | 23°21 | 3°23 | 21°55 | 26°16 | 5°33 | 1°50 | 3°37 | 2°10 | 13°17 | 18°57 | F 8 | | | | | | | | |
| S 9 | 9 15 10 | 19°38'28 | 26°28 | 6°18 | 0♌10 | 24° 6 | 3°15 | 21°56 | 26°16 | 5°32 | 1°51 | 3°38 | 2° 7 | 13°23 | 19° 0 | S 9 | | | | | | | | |
| S 10 | 9 19 7 | 20°39'21 | 9♌40 | 6°R28 | 1°25 | 24°51 | 3° 8 | 21°58 | 26°15 | 5°31 | 1°52 | 3°R39 | 2° 4 | 13°30 | 19° 2 | S 10 | | | | | | | | |
| M11 | 9 23 3 | 21°40'13 | 23°18 | 6°26 | 2°40 | 25°36 | 3° 1 | 22° 0 | 26°15 | 5°30 | 1°54 | 3°37 | 2° 1 | 13°37 | 19° 4 | M11 | | | | | | | | |
| T 12 | 9 27 0 | 22°41'04 | 7♏R23 | 6°14 | 3°56 | 26°21 | 2°53 | 22° 2 | 26°14 | 5°29 | 1°55 | 3°33 | 1°57 | 13°43 | 19° 6 | T 12 | | | | | | | | |
| W13 | 9 30 56 | 23°41'53 | 21°50 | 5°50 | 5°11 | 27° 7 | 2°46 | 22° 5 | 26°13 | 5°28 | 1°56 | 3°26 | 1°54 | 13°50 | 19° 8 | W13 | | | | | | | | |
| T 14 | 9 34 53 | 24°42'42 | 6♏R35 | 5°15 | 6°26 | 27°52 | 2°39 | 22° 7 | 26°13 | 5°27 | 1°57 | 3°19 | 1°51 | 13°57 | 19°11 | T 14 | | | | | | | | |
| F 15 | 9 38 49 | 25°43'29 | 21°28 | 4°31 | 7°41 | 28°37 | 2°32 | 22° 9 | 26°12 | 5°26 | 1°59 | 3°10 | 1°48 | 14° 4 | 19°13 | F 15 | | | | | | | | |
| S 16 | 9 42 46 | 26°44'15 | 6♌22 | 3°38 | 8°56 | 29°23 | 2°26 | 22°12 | 26°11 | 5°25 | 2° 0 | 3° 2 | 1°45 | 14°10 | 19°15 | S 16 | | | | | | | | |
| S 17 | 9 46 43 | 27°45'00 | 21° 7 | 2°38 | 10°11 | 0♋8 | 2°19 | 22°15 | 26°10 | 5°24 | 2° 1 | 2°55 | 1°41 | 14°17 | 19°18 | S 17 | | | | | | | | |
| M18 | 9 50 39 | 28°45'45 | 5♏R38 | 1°32 | 11°26 | 0°53 | 2°12 | 22°17 | 26° 9 | 5°23 | 2° 3 | 2°51 | 1°38 | 14°24 | 19°20 | M18 | | | | | | | | |
| T 19 | 9 54 36 | 29°46'28 | 19°50 | 0°22 | 12°42 | 1°39 | 2° 6 | 22°20 | 26° 8 | 5°22 | 2° 4 | 2°48 | 1°35 | 14°31 | 19°23 | T 19 | | | | | | | | |
| W20 | 9 58 32 | 0♌47'11 | 3♌42 | 29°12 | 13°57 | 2°24 | 2° 0 | 22°23 | 26° 7 | 5°21 | 2° 5 | 2°D48 | 1°32 | 14°37 | 19°25 | W20 | | | | | | | | |
| T 21 | 10 2 29 | 1°47'53 | 17°15 | 28° 1 | 15°12 | 3°10 | 1°54 | 22°26 | 26° 6 | 5°21 | 2° 7 | 2°48 | 1°29 | 14°44 | 19°28 | T 21 | | | | | | | | |
| F 22 | 10 6 25 | 2°48'33 | 0♌31 | 26°52 | 16°27 | 3°55 | 1°48 | 22°29 | 26° 5 | 5°20 | 2° 8 | 2°R49 | 1°26 | 14°51 | 19°31 | F 22 | | | | | | | | |
| S 23 | 10 10 22 | 3°49'13 | 13°31 | 25°47 | 17°42 | 4°41 | 1°42 | 22°33 | 26° 4 | 5°19 | 2° 9 | 2°49 | 1°22 | 14°57 | 19°33 | S 23 | | | | | | | | |
| S 24 | 10 14 18 | 4°49'51 | 26°18 | 24°48 | 18°57 | 5°26 | 1°36 | 22°36 | 26° 2 | 5°18 | 2°11 | 2°46 | 1°19 | 15° 4 | 19°36 | S 24 | | | | | | | | |
| M25 | 10 18 15 | 5°50'28 | 8♋R54 | 23°54 | 20°12 | 6°12 | 1°30 | 22°39 | 26° 1 | 5°18 | 2°12 | 2°41 | 1°16 | 15°11 | 19°39 | M25 | | | | | | | | |
| T 26 | 10 22 12 | 6°51'04 | 21°21 | 23° 7 | 21°27 | 6°58 | 1°25 | 22°43 | 26° 0 | 5°17 | 2°14 | 2°32 | 1°13 | 15°18 | 19°41 | T 26 | | | | | | | | |
| W27 | 10 26 8 | 7°51'38 | 3♌39 | 22°28 | 22°42 | 7°43 | 1°20 | 22°46 | 25°58 | 5°16 | 2°15 | 2°21 | 1°10 | 15°24 | 19°44 | W27 | | | | | | | | |
| T 28 | 10 30 5 | 8°52'11 | 15°48 | 21°56 | 23°56 | 8°29 | 1°15 | 22°50 | 25°57 | 5°16 | 2°16 | 2° 9 | 1° 6 | 15°31 | 19°47 | T 28 | | | | | | | | |
| F 29 | 10 34 1 | 9♌52'43 | 27♌51 | 21°32 | 25♌11 | 9°15 | 1♏R10 | 22♌54 | 25°55 | 5♌15 | 2°R18 | 1♌56 | 1♌ 3 | 15°R38 | 19°R50 | F 29 | | | | | | | | |

Delta T = 17m41s

ASTRODIENST EPHEMERIS for the year 2560
geocentric

MAY 2560

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|------|-------|--------|------|------|--------|-------|-------|-------|------|-----|
| T 1 | 14 38 28 | 11♁24'21 | 27♁30 | 14♁ 0 | 11♁27 | 27♁ 2 | 2♁ 6 | 29♁ 9 | 23°R32 | 5♁46 | 3♁49 | 25°D54 | 27♁46 | 22♁34 | 23♁19 | T 1 | |
| F 2 | 14 42 24 | 12°22'53 | 9♁57 | 16° 8 | 12°39 | 27°48 | 2°13 | 29°16 | 23°29 | 5°48 | 3°50 | 25°55 | 27°43 | 22°41 | 23°22 | F 2 | |
| S 3 | 14 46 21 | 13°21'23 | 22°39 | 18°16 | 13°52 | 28°35 | 2°19 | 29°24 | 23°27 | 5°49 | 3°52 | 25°56 | 27°40 | 22°47 | 23°26 | S 3 | |
| S 4 | 14 50 17 | 14°19'51 | 5♁14 | 20°24 | 15° 4 | 29°21 | 2°26 | 29°31 | 23°25 | 5°51 | 3°53 | 25°58 | 27°37 | 22°54 | 23°29 | S 4 | |
| M 5 | 14 54 14 | 15°18'17 | 19° 4 | 22°31 | 16°16 | 0♁ 7 | 2°33 | 29°39 | 23°22 | 5°53 | 3°54 | 25°R58 | 27°34 | 23° 1 | 23°32 | M 5 | |
| T 6 | 14 58 10 | 16°16'40 | 2♁53 | 24°38 | 17°28 | 0°53 | 2°40 | 29°46 | 23°20 | 5°54 | 3°55 | 25°57 | 27°30 | 23° 8 | 23°36 | T 6 | |
| W 7 | 15 2 7 | 17°15'02 | 17° 6 | 26°43 | 18°40 | 1°39 | 2°47 | 29°54 | 23°18 | 5°56 | 3°56 | 25°54 | 27°27 | 23°14 | 23°39 | W 7 | |
| T 8 | 15 6 3 | 18°13'21 | 1♁43 | 28°47 | 19°52 | 2°26 | 2°54 | 0♁ 1 | 23°15 | 5°57 | 3°58 | 25°50 | 27°24 | 23°21 | 23°42 | T 8 | |
| F 9 | 15 10 0 | 19°11'39 | 16°39 | 0♁50 | 21° 4 | 3°12 | 3° 1 | 0° 9 | 23°13 | 5°59 | 3°59 | 25°44 | 27°21 | 23°28 | 23°46 | F 9 | |
| S 10 | 15 13 57 | 20° 9'54 | 1♁46 | 2°50 | 22°16 | 3°58 | 3° 9 | 0°17 | 23°11 | 6° 1 | 4° 0 | 25°39 | 27°18 | 23°34 | 23°49 | S 10 | |
| S 11 | 15 17 53 | 21° 8'08 | 16°55 | 4°47 | 23°28 | 4°44 | 3°17 | 0°24 | 23° 9 | 6° 2 | 4° 1 | 25°35 | 27°15 | 23°41 | 23°52 | S 11 | |
| M12 | 15 21 50 | 22° 6'19 | 1♁56 | 6°42 | 24°40 | 5°30 | 3°24 | 0°32 | 23° 6 | 6° 4 | 4° 2 | 25°31 | 27°11 | 23°48 | 23°55 | M12 | |
| T 13 | 15 25 46 | 23° 4'30 | 16°41 | 8°35 | 25°51 | 6°16 | 3°32 | 0°40 | 23° 4 | 6° 6 | 4° 3 | 25°30 | 27° 8 | 23°54 | 23°58 | T 13 | |
| W14 | 15 29 43 | 24° 2'39 | 1♁ 2 | 10°24 | 27° 3 | 7° 2 | 3°40 | 0°47 | 23° 2 | 6° 7 | 4° 4 | 25°D30 | 27° 5 | 24° 1 | 24° 2 | W14 | |
| T 15 | 15 33 39 | 25° 0'46 | 14°56 | 12°10 | 28°15 | 7°48 | 3°49 | 0°55 | 23° 0 | 6° 9 | 4° 5 | 25°31 | 27° 2 | 24° 8 | 24° 5 | T 15 | |
| F 16 | 15 37 36 | 25°58'52 | 28°24 | 13°53 | 29°26 | 8°34 | 3°57 | 1° 3 | 22°58 | 6°11 | 4° 6 | 25°32 | 26°59 | 24°15 | 24° 8 | F 16 | |
| S 17 | 15 41 32 | 26°56'56 | 11♁26 | 15°33 | 0♁38 | 9°20 | 4° 5 | 1°10 | 22°56 | 6°13 | 4° 7 | 25°34 | 26°55 | 24°21 | 24°11 | S 17 | |
| S 18 | 15 45 29 | 27°55'00 | 24° 5 | 17° 9 | 1°49 | 10° 6 | 4°14 | 1°18 | 22°54 | 6°15 | 4° 8 | 25°R34 | 26°52 | 24°28 | 24°14 | S 18 | |
| M19 | 15 49 26 | 28°53'01 | 6♁27 | 18°41 | 3° 0 | 10°52 | 4°22 | 1°26 | 22°52 | 6°16 | 4° 9 | 25°34 | 26°49 | 24°35 | 24°17 | M19 | |
| T 20 | 15 53 22 | 29°51'02 | 18°34 | 20° 9 | 4°12 | 11°38 | 4°31 | 1°34 | 22°50 | 6°18 | 4°10 | 25°33 | 26°46 | 24°41 | 24°20 | T 20 | |
| W21 | 15 57 19 | 0♁49'01 | 0♁32 | 21°34 | 5°23 | 12°24 | 4°40 | 1°41 | 22°48 | 6°20 | 4°11 | 25°30 | 26°43 | 24°48 | 24°23 | W21 | |
| T 22 | 16 1 15 | 1°46'59 | 12°24 | 22°55 | 6°34 | 13°10 | 4°49 | 1°49 | 22°47 | 6°22 | 4°12 | 25°27 | 26°40 | 24°55 | 24°26 | T 22 | |
| F 23 | 16 5 12 | 2°44'55 | 24°14 | 24°13 | 7°45 | 13°56 | 4°58 | 1°57 | 22°45 | 6°24 | 4°13 | 25°23 | 26°36 | 25° 2 | 24°29 | F 23 | |
| S 24 | 16 9 8 | 3°42'50 | 6♁ 6 | 25°26 | 8°56 | 14°42 | 5° 7 | 2° 4 | 22°43 | 6°26 | 4°14 | 25°20 | 26°33 | 25° 8 | 24°32 | S 24 | |
| S 25 | 16 13 5 | 4°40'44 | 18° 2 | 26°35 | 10° 7 | 15°28 | 5°16 | 2°12 | 22°41 | 6°28 | 4°15 | 25°16 | 26°30 | 25°15 | 24°35 | S 25 | |
| M26 | 16 17 1 | 5°38'37 | 0♁ 3 | 27°40 | 11°17 | 16°13 | 5°26 | 2°20 | 22°40 | 6°30 | 4°16 | 25°14 | 26°27 | 25°22 | 24°38 | M26 | |
| T 27 | 16 20 58 | 6°36'28 | 12°13 | 28°41 | 12°28 | 16°59 | 5°35 | 2°28 | 22°38 | 6°32 | 4°17 | 25°12 | 26°24 | 25°28 | 24°41 | T 27 | |
| W28 | 16 24 55 | 7°34'18 | 24°32 | 29°38 | 13°39 | 17°45 | 5°45 | 2°35 | 22°36 | 6°34 | 4°18 | 25°D12 | 26°21 | 25°35 | 24°43 | W28 | |
| T 29 | 16 28 51 | 8°32'06 | 7♁ 1 | 0♁30 | 14°49 | 18°30 | 5°55 | 2°43 | 22°35 | 6°36 | 4°18 | 25°12 | 26°17 | 25°42 | 24°46 | T 29 | |
| F 30 | 16 32 48 | 9°29'53 | 19°43 | 1°19 | 16° 0 | 19°16 | 6° 5 | 2°51 | 22°33 | 6°38 | 4°19 | 25°13 | 26°14 | 25°48 | 24°49 | F 30 | |
| S 31 | 16 36 44 | 10♁27'38 | 2♁39 | 2♁ 3 | 17♁10 | 20♁ 1 | 6♁14 | 2♁58 | 22°32 | 6♁40 | 4♁20 | 25°14 | 26♁11 | 25♁55 | 24♁52 | S 31 | |

Delta T = 17m42s

JUNE 2560

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|--------|------|------|--------|-------|-------|-------|------|-----|
| S 1 | 16 40 41 | 11♁25'22 | 15♁21 | 2♁42 | 18♁21 | 20♁47 | 6♁24 | 3♁ 6 | 22°R30 | 6♁42 | 4♁21 | 25°16 | 26♁ 8 | 26♁ 2 | 24♁54 | S 1 | |
| M 2 | 16 44 37 | 12°23'05 | 29°19 | 3°17 | 19°31 | 21°32 | 6°35 | 3°14 | 22°29 | 6°44 | 4°21 | 25°16 | 26° 5 | 26° 9 | 24°57 | M 2 | |
| T 3 | 16 48 34 | 13°20'45 | 13♁ 6 | 3°47 | 20°41 | 22°18 | 6°45 | 3°21 | 22°28 | 6°46 | 4°22 | 25°R17 | 26° 1 | 26°15 | 24°59 | T 3 | |
| W 4 | 16 52 30 | 14°18'24 | 27°11 | 4°13 | 21°51 | 23° 3 | 6°55 | 3°29 | 22°26 | 6°48 | 4°23 | 25°16 | 25°58 | 26°22 | 25° 2 | W 4 | |
| T 5 | 16 56 27 | 15°16'02 | 11♁32 | 4°34 | 23° 1 | 23°48 | 7° 5 | 3°37 | 22°25 | 6°50 | 4°23 | 25°16 | 25°55 | 26°29 | 25° 5 | T 5 | |
| F 6 | 17 0 24 | 16°13'38 | 26° 7 | 4°50 | 24°11 | 24°34 | 7°16 | 3°44 | 22°24 | 6°52 | 4°24 | 25°15 | 25°52 | 26°35 | 25° 7 | F 6 | |
| S 7 | 17 4 20 | 17°11'13 | 10♁51 | 5° 2 | 25°20 | 25°19 | 7°26 | 3°52 | 22°23 | 6°55 | 4°25 | 25°14 | 25°49 | 26°42 | 25° 9 | S 7 | |
| S 8 | 17 8 17 | 18° 8'46 | 25°37 | 5° 9 | 26°30 | 26° 4 | 7°37 | 3°59 | 22°22 | 6°57 | 4°25 | 25°13 | 25°46 | 26°49 | 25°12 | S 8 | |
| M 9 | 17 12 13 | 19° 6'19 | 10♁20 | 5°R11 | 27°40 | 26°49 | 7°48 | 4° 7 | 22°21 | 6°59 | 4°26 | 25°13 | 25°42 | 26°56 | 25°14 | M 9 | |
| T 10 | 17 16 10 | 20° 3'50 | 24°51 | 5° 8 | 28°49 | 27°34 | 7°58 | 4°15 | 22°20 | 7° 1 | 4°26 | 25°D12 | 25°39 | 27° 2 | 25°17 | T 10 | |
| W11 | 17 20 6 | 21° 1'21 | 9♁ 5 | 5° 2 | 29°58 | 28°19 | 8° 9 | 4°22 | 22°19 | 7° 3 | 4°27 | 25°13 | 25°36 | 27° 9 | 25°19 | W11 | |
| T 12 | 17 24 3 | 21°58'50 | 22°58 | 4°51 | 1♁ 7 | 29° 5 | 8°20 | 4°30 | 22°18 | 7° 5 | 4°27 | 25°13 | 25°33 | 27°16 | 25°21 | T 12 | |
| F 13 | 17 27 59 | 22°56'19 | 6♁27 | 4°36 | 2°17 | 29°49 | 8°31 | 4°37 | 22°17 | 7° 8 | 4°28 | 25°13 | 25°30 | 27°22 | 25°23 | F 13 | |
| S 14 | 17 31 56 | 23°53'46 | 19°33 | 4°17 | 3°26 | 0♁34 | 8°42 | 4°44 | 22°16 | 7°10 | 4°28 | 25°13 | 25°27 | 27°29 | 25°26 | S 14 | |
| S 15 | 17 35 53 | 24°51'13 | 2♁16 | 3°54 | 4°34 | 1°19 | 8°54 | 4°52 | 22°15 | 7°12 | 4°29 | 25°R13 | 25°23 | 27°36 | 25°28 | S 15 | |
| M16 | 17 39 49 | 25°48'40 | 14°41 | 3°29 | 5°43 | 2° 4 | 9° 5 | 4°59 | 22°15 | 7°14 | 4°29 | 25°13 | 25°20 | 27°42 | 25°30 | M16 | |
| T 17 | 17 43 46 | 26°46'05 | 26°51 | 3° 1 | 6°52 | 2°49 | 9°16 | 5° 7 | 22°14 | 7°16 | 4°30 | 25°D13 | 25°17 | 27°49 | 25°32 | T 17 | |
| W18 | 17 47 42 | 27°43'31 | 8♁50 | 2°31 | 8° 0 | 3°34 | 9°27 | 5°14 | 22°13 | 7°19 | 4°30 | 25°13 | 25°14 | 27°56 | 25°34 | W18 | |
| T 19 | 17 51 39 | 28°40'55 | 20°43 | 1°59 | 9° 9 | 4°18 | 9°39 | 5°21 | 22°13 | 7°21 | 4°30 | 25°14 | 25°11 | 28° 3 | 25°36 | T 19 | |
| F 20 | 17 55 35 | 29°38'19 | 2♁34 | 1°26 | 10°17 | 5° 3 | 9°50 | 5°29 | 22°12 | 7°23 | 4°31 | 25°14 | 25° 7 | 28° 9 | 25°38 | F 20 | |
| S 21 | 17 59 32 | 0♁35'43 | 14°28 | 0°52 | 11°25 | 5°47 | 10° 2 | 5°36 | 22°12 | 7°25 | 4°31 | 25°14 | 25° 4 | 28°16 | 25°40 | S 21 | |
| S 22 | 18 3 28 | 1°33'06 | 26°28 | 0°18 | 12°33 | 6°32 | 10°14 | 5°43 | 22°11 | 7°27 | 4°31 | 25°15 | 25° 1 | 28°23 | 25°42 | S 22 | |
| M23 | 18 7 25 | 2°30'29 | 8♁37 | 29♁45 | 13°41 | 7°16 | 10°25 | 5°50 | 22°11 | 7°30 | 4°32 | 25°16 | 24°58 | 28°29 | 25°43 | M23 | |
| T 24 | 18 11 22 | 3°27'51 | 20°58 | 29°13 | 14°49 | 8° 1 | 10°37 | 5°58 | 22°11 | 7°32 | 4°32 | 25°R16 | 24°55 | 28°36 | 25°45 | T 24 | |
| W25 | 18 15 18 | 4°25'12 | 3♁32 | 28°43 | 15°57 | 8°45 | 10°49 | 6° 5 | 22°11 | 7°34 | 4°32 | 25°16 | 24°52 | 28°43 | 25°47 | W25 | |
| T 26 | 18 19 15 | 5°22'33 | 16°21 | 28°15 | 17° 4 | 9°29 | 11° 1 | 6°12 | 22°10 | 7°36 | 4°32 | 25°15 | 24°48 | 28°49 | 25°49 | T 26 | |
| F 27 | 18 23 11 | 6°19'54 | 29°25 | 27°49 | 18°11 | 10°13 | 11°13 | 6°19 | 22°10 | 7°39 | 4°32 | 25°14 | 24°45 | 28°56 | 25°50 | F 27 | |
| S 28 | 18 27 8 | 7°17'13 | 12♁43 | 27°27 | 19°19 | 10°58 | 11°25 | 6°26 | 22°10 | 7°41 | 4°33 | 25°13 | 24°42 | 29° 3 | 25°52 | S 28 | |
| S 29 | 18 31 4 | 8°14'32 | 26°14 | 27° 8 | 20°26 | 11°42 | 11°37 | 6°33 | 22°D10 | 7°43 | 4°33 | 25°11 | 24°39 | 29°10 | 25°53 | S 29 | |
| M30 | 18 35 1 | 9°11'50 | 9♁58 | 26♁53 | 21♁33 | 12♁26 | 11♁49 | 6♁40 | 22°10 | 7°45 | 4♁33 | 25°10 | 24♁36 | 29♁16 | 25♁55 | M30 | |

Delta T = 17m43s

ASTRODIENST EPHEMERIS for the year 2560
geocentric

SEPTEMBER 2560

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|----------|-------|-------|-------|----------|----------|------|--------|------|-----|
| M 1 | 22 43 24 | 9♎27'59 | 9♉37 | 27♎55 | 21♉16 | 25♀39 | 25♄25 | 11♀53 | 23♉52 | 9♁46 | 3°R57 | 22°R 9 | 21♀16 | 6♃18 | 25°R47 | M 1 | |
| T 2 | 22 47 21 | 10°25'49 | 22°58 | 29°31 | 21°53 | 26°17 | 25°38 | 11°56 | 23°55 | 9°47 | 3♃56 | 22♀ 6 | 21°12 | 6°24 | 25°Y45 | T 2 | |
| W 3 | 22 51 17 | 11°23'41 | 6♉ 6 | 1♉ 5 | 22°29 | 26°54 | 25°50 | 11°58 | 23°58 | 9°49 | 3°55 | 22° 0 | 21° 9 | 6°31 | 25°43 | W 3 | |
| T 4 | 22 55 14 | 12°21'34 | 19° 3 | 2°38 | 23° 4 | 27°31 | 26° 3 | 12° 0 | 24° 1 | 9°50 | 3°54 | 21°51 | 21° 6 | 6°38 | 25°42 | T 4 | |
| F 5 | 22 59 10 | 13°19'28 | 1♃50 | 4°10 | 23°37 | 28° 8 | 26°16 | 12° 2 | 24° 4 | 9°51 | 3°53 | 21°40 | 21° 3 | 6°45 | 25°40 | F 5 | |
| S 6 | 23 3 7 | 14°17'24 | 14°24 | 5°40 | 24° 9 | 28°45 | 26°29 | 12° 4 | 24° 7 | 9°52 | 3°52 | 21°27 | 21° 0 | 6°51 | 25°38 | S 6 | |
| S 7 | 23 7 3 | 15°15'21 | 26°47 | 7° 9 | 24°39 | 29°22 | 26°42 | 12° 6 | 24°10 | 9°53 | 3°51 | 21°14 | 20°56 | 6°58 | 25°36 | S 7 | |
| M 8 | 23 11 0 | 16°13'20 | 9♃ 0 | 8°36 | 25° 8 | 29°58 | 26°55 | 12° 7 | 24°13 | 9°55 | 3°50 | 21° 1 | 20°53 | 7° 5 | 25°34 | M 8 | |
| T 9 | 23 14 56 | 17°11'20 | 21° 2 | 10° 2 | 25°36 | 0♁35 | 27° 8 | 12° 9 | 24°16 | 9°56 | 3°48 | 20°50 | 20°50 | 7°11 | 25°32 | T 9 | |
| W10 | 23 18 53 | 18° 9'22 | 2♃57 | 11°27 | 26° 2 | 1°11 | 27°20 | 12°11 | 24°19 | 9°57 | 3°47 | 20°41 | 20°47 | 7°18 | 25°30 | W10 | |
| T 11 | 23 22 50 | 19° 7'26 | 14°46 | 12°50 | 26°26 | 1°47 | 27°33 | 12°12 | 24°23 | 9°58 | 3°46 | 20°35 | 20°44 | 7°25 | 25°28 | T 11 | |
| F 12 | 23 26 46 | 20° 5'32 | 26°35 | 14°12 | 26°48 | 2°23 | 27°46 | 12°13 | 24°26 | 9°59 | 3°45 | 20°32 | 20°41 | 7°31 | 25°26 | F 12 | |
| S 13 | 23 30 43 | 21° 3'40 | 8♂27 | 15°32 | 27° 9 | 2°59 | 27°58 | 12°15 | 24°29 | 10° 0 | 3°44 | 20°30 | 20°37 | 7°38 | 25°24 | S 13 | |
| S 14 | 23 34 39 | 22° 1'50 | 20°27 | 16°50 | 27°28 | 3°34 | 28°11 | 12°16 | 24°33 | 10° 1 | 3°43 | 20°30 | 20°34 | 7°45 | 25°22 | S 14 | |
| M15 | 23 38 36 | 23° 0'01 | 2♁41 | 18° 8 | 27°46 | 4°10 | 28°24 | 12°17 | 24°36 | 10° 2 | 3°41 | 20°30 | 20°31 | 7°51 | 25°20 | M15 | |
| T 16 | 23 42 32 | 23°58'15 | 15°15 | 19°23 | 28° 1 | 4°45 | 28°36 | 12°17 | 24°39 | 10° 3 | 3°40 | 20°29 | 20°28 | 7°58 | 25°18 | T 16 | |
| W17 | 23 46 29 | 24°56'31 | 28°13 | 20°37 | 28°14 | 5°20 | 28°49 | 12°18 | 24°43 | 10° 3 | 3°39 | 20°25 | 20°25 | 8° 5 | 25°15 | W17 | |
| T 18 | 23 50 25 | 25°54'48 | 11♃38 | 21°49 | 28°25 | 5°55 | 29° 1 | 12°19 | 24°46 | 10° 4 | 3°38 | 20°20 | 20°22 | 8°11 | 25°13 | T 18 | |
| F 19 | 23 54 22 | 26°53'08 | 25°31 | 22°59 | 28°35 | 6°29 | 29°13 | 12°19 | 24°50 | 10° 5 | 3°37 | 20°11 | 20°18 | 8°18 | 25°11 | F 19 | |
| S 20 | 23 58 19 | 27°51'29 | 9♎52 | 24° 7 | 28°42 | 7° 4 | 29°26 | 12°20 | 24°53 | 10° 6 | 3°35 | 20° 1 | 20°15 | 8°25 | 25° 8 | S 20 | |
| S 21 | 0 2 15 | 28°49'53 | 24°34 | 25°13 | 28°47 | 7°38 | 29°38 | 12°20 | 24°57 | 10° 7 | 3°34 | 19°50 | 20°12 | 8°31 | 25° 6 | S 21 | |
| M22 | 0 6 12 | 29°48'18 | 9♁31 | 26°17 | 28°49 | 8°12 | 29°50 | 12°20 | 25° 0 | 10° 7 | 3°33 | 19°39 | 20° 9 | 8°38 | 25° 4 | M22 | |
| T 23 | 0 10 8 | 0♁46'44 | 24°33 | 27°19 | 28°R49 | 8°45 | 0♎ 3 | 12°21 | 25° 4 | 10° 8 | 3°32 | 19°29 | 20° 6 | 8°45 | 25° 1 | T 23 | |
| W24 | 0 14 5 | 1°45'13 | 9♁30 | 28°18 | 28°47 | 9°19 | 0°15 | 12°R21 | 25° 7 | 10° 9 | 3°31 | 19°22 | 20° 2 | 8°51 | 24°59 | W24 | |
| T 25 | 0 18 1 | 2°43'43 | 24°14 | 29°15 | 28°43 | 9°52 | 0°27 | 12°20 | 25°11 | 10° 9 | 3°29 | 19°18 | 19°59 | 8°58 | 24°56 | T 25 | |
| F 26 | 0 21 58 | 3°42'15 | 8♁41 | 0♁ 8 | 28°36 | 10°26 | 0°39 | 12°20 | 25°14 | 10°10 | 3°28 | 19°16 | 19°56 | 9° 5 | 24°54 | F 26 | |
| S 27 | 0 25 54 | 4°40'49 | 22°47 | 0°59 | 28°27 | 10°58 | 0°51 | 12°20 | 25°18 | 10°10 | 3°27 | 19°D16 | 19°53 | 9°11 | 24°51 | S 27 | |
| S 28 | 0 29 51 | 5°39'24 | 6♁32 | 1°46 | 28°15 | 11°31 | 1° 3 | 12°20 | 25°21 | 10°11 | 3°26 | 19°R16 | 19°50 | 9°18 | 24°49 | S 28 | |
| M29 | 0 33 47 | 6°38'01 | 19°58 | 2°30 | 28° 1 | 12° 4 | 1°15 | 12°19 | 25°25 | 10°11 | 3°25 | 19°15 | 19°47 | 9°25 | 24°46 | M29 | |
| T 30 | 0 37 44 | 7°36'39 | 3♉ 6 | 3♁10 | 27°45 | 12°36 | 1♎27 | 12°II 18 | 25°29 | 10°12 | 3°Y23 | 19°II 13 | 19°II 43 | 9♁32 | 24°Y44 | T 30 | |

Delta T = 17m44s

OCTOBER 2560

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|--------|-------|------|----------|-------|--------|-------|----------|----------|-------|--------|------|-----|
| W 1 | 0 41 41 | 8♁35'19 | 15♉59 | 3♁46 | 27°R26 | 13♉ 8 | 1♎38 | 12°R18 | 25♉32 | 10♁12 | 3°R22 | 19°R 8 | 19°II 40 | 9♁38 | 24°R41 | W 1 | |
| T 2 | 0 45 37 | 9°34'01 | 28°39 | 4°17 | 27♁ 5 | 13°40 | 1°50 | 12°II 17 | 25°36 | 10°13 | 3°Y21 | 19°II 0 | 19°37 | 9°45 | 24°Y39 | T 2 | |
| F 3 | 0 49 34 | 10°32'44 | 11♃ 9 | 4°44 | 26°42 | 14°11 | 2° 2 | 12°16 | 25°40 | 10°13 | 3°20 | 18°50 | 19°34 | 9°52 | 24°36 | F 3 | |
| S 4 | 0 53 30 | 11°31'29 | 23°28 | 5° 5 | 26°17 | 14°42 | 2°13 | 12°15 | 25°43 | 10°13 | 3°19 | 18°38 | 19°31 | 9°58 | 24°33 | S 4 | |
| S 5 | 0 57 27 | 12°30'16 | 5°Y38 | 5°21 | 25°50 | 15°13 | 2°25 | 12°14 | 25°47 | 10°14 | 3°17 | 18°25 | 19°27 | 10° 5 | 24°31 | S 5 | |
| M 6 | 1 1 23 | 13°29'05 | 17°41 | 5°31 | 25°21 | 15°44 | 2°36 | 12°12 | 25°51 | 10°14 | 3°16 | 18°13 | 19°24 | 10°12 | 24°28 | M 6 | |
| T 7 | 1 5 20 | 14°27'55 | 29°37 | 5°R34 | 24°50 | 16°15 | 2°48 | 12°11 | 25°55 | 10°14 | 3°15 | 18° 3 | 19°21 | 10°18 | 24°25 | T 7 | |
| W 8 | 1 9 16 | 15°26'48 | 11♃28 | 5°31 | 24°18 | 16°45 | 2°59 | 12° 9 | 25°58 | 10°14 | 3°14 | 17°55 | 19°18 | 10°25 | 24°23 | W 8 | |
| T 9 | 1 13 13 | 16°25'43 | 23°16 | 5°20 | 23°44 | 17°15 | 3°10 | 12° 8 | 26° 2 | 10°14 | 3°13 | 17°49 | 19°15 | 10°32 | 24°20 | T 9 | |
| F 10 | 1 17 10 | 17°24'41 | 5♂ 4 | 5° 2 | 23° 9 | 17°45 | 3°21 | 12° 6 | 26° 6 | 10°14 | 3°11 | 17°46 | 19°12 | 10°38 | 24°17 | F 10 | |
| S 11 | 1 21 6 | 18°23'40 | 16°55 | 4°36 | 22°34 | 18°14 | 3°32 | 12° 4 | 26°10 | 10°14 | 3°10 | 17°D45 | 19° 8 | 10°45 | 24°15 | S 11 | |
| S 12 | 1 25 3 | 19°22'42 | 28°55 | 4° 3 | 21°57 | 18°43 | 3°43 | 12° 2 | 26°13 | 10°15 | 3° 9 | 17°46 | 19° 5 | 10°52 | 24°12 | S 12 | |
| M13 | 1 28 59 | 20°21'46 | 11♁ 8 | 3°21 | 21°21 | 19°12 | 3°54 | 12° 0 | 26°17 | 10°R15 | 3° 8 | 17°46 | 19° 2 | 10°58 | 24° 9 | M13 | |
| T 14 | 1 32 56 | 21°20'52 | 23°38 | 2°33 | 20°44 | 19°41 | 4° 5 | 11°58 | 26°21 | 10°15 | 3° 7 | 17°R47 | 18°59 | 11° 5 | 24° 6 | T 14 | |
| W15 | 1 36 52 | 22°20'00 | 6♃31 | 1°37 | 20° 7 | 20° 9 | 4°16 | 11°56 | 26°25 | 10°14 | 3° 6 | 17°46 | 18°56 | 11°12 | 24° 4 | W15 | |
| T 16 | 1 40 49 | 23°19'11 | 19°52 | 0°36 | 19°30 | 20°37 | 4°26 | 11°54 | 26°29 | 10°14 | 3° 5 | 17°43 | 18°53 | 11°18 | 24° 1 | T 16 | |
| F 17 | 1 44 45 | 24°18'24 | 3♎41 | 29♁30 | 18°54 | 21° 4 | 4°37 | 11°51 | 26°32 | 10°14 | 3° 3 | 17°37 | 18°49 | 11°25 | 23°58 | F 17 | |
| S 18 | 1 48 42 | 25°17'39 | 18° 1 | 28°20 | 18°19 | 21°32 | 4°47 | 11°49 | 26°36 | 10°14 | 3° 2 | 17°30 | 18°46 | 11°32 | 23°55 | S 18 | |
| S 19 | 1 52 39 | 26°16'57 | 2♁46 | 27° 9 | 17°45 | 21°59 | 4°58 | 11°46 | 26°40 | 10°14 | 3° 1 | 17°23 | 18°43 | 11°38 | 23°53 | S 19 | |
| M20 | 1 56 35 | 27°16'16 | 17°50 | 25°57 | 17°12 | 22°25 | 5° 8 | 11°44 | 26°44 | 10°14 | 3° 0 | 17°15 | 18°40 | 11°45 | 23°50 | M20 | |
| T 21 | 2 0 32 | 28°15'38 | 3♁ 4 | 24°49 | 16°41 | 22°51 | 5°18 | 11°41 | 26°47 | 10°13 | 2°59 | 17° 8 | 18°37 | 11°52 | 23°47 | T 21 | |
| W22 | 2 4 28 | 29°15'01 | 18°17 | 23°44 | 16°11 | 23°17 | 5°28 | 11°38 | 26°51 | 10°13 | 2°58 | 17° 3 | 18°33 | 11°58 | 23°45 | W22 | |
| T 23 | 2 8 25 | 0♁14'27 | 3♁20 | 22°45 | 15°42 | 23°43 | 5°38 | 11°35 | 26°55 | 10°13 | 2°57 | 17° 0 | 18°30 | 12° 5 | 23°42 | T 23 | |
| F 24 | 2 12 21 | 1°13'54 | 18° 3 | 21°54 | 15°16 | 24° 8 | 5°48 | 11°32 | 26°59 | 10°12 | 2°56 | 16°D59 | 18°27 | 12°12 | 23°39 | F 24 | |
| S 25 | 2 16 18 | 2°13'24 | 2♁23 | 21°13 | 14°52 | 24°33 | 5°58 | 11°29 | 27° 3 | 10°12 | 2°55 | 17° 0 | 18°24 | 12°18 | 23°36 | S 25 | |
| S 26 | 2 20 14 | 3°12'55 | 16°18 | 20°41 | 14°30 | 24°57 | 6° 8 | 11°26 | 27° 6 | 10°12 | 2°54 | 17° 1 | 18°21 | 12°25 | 23°34 | S 26 | |
| M27 | 2 24 11 | 4°12'27 | 29°47 | 20°20 | 14°10 | 25°21 | 6°18 | 11°22 | 27°10 | 10°11 | 2°53 | 17°R 2 | 18°18 | 12°32 | 23°31 | M27 | |
| T 28 | 2 28 8 | 5°12'02 | 12♁54 | 20°D11 | 13°52 | 25°45 | 6°27 | 11°19 | 27°14 | 10°11 | 2°52 | 17° 2 | 18°14 | 12°38 | 23°28 | T 28 | |
| W29 | 2 32 4 | 6°11'38 | 25°42 | 20°13 | 13°37 | 26° 8 | 6°36 | 11°15 | 27°18 | 10°10 | 2°51 | 17° 0 | 18°11 | 12°45 | 23°26 | W29 | |
| T 30 | 2 36 1 | 7°11'15 | 8♃13 | 20°25 | 13°24 | 26°31 | 6°46 | 11°12 | 27°21 | 10°10 | 2°50 | 16°56 | 18° 8 | 12°52 | 23°23 | T 30 | |
| F 31 | 2 39 57 | 8♁10'55 | 20♃31 | 20♁48 | 13♁14 | 26♁53 | 6♎55 | 11°II 8 | 27°25 | 10°9 | 2°Y49 | 16°II 51 | 18°II 5 | 12♁58 | 23°Y21 | F 31 | |

Delta T = 17m44s

ASTRODIENST EPHEMERIS for the year 2560
geocentric

NOVEMBER 2560

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|--------|-------|-------|--------|-------|--------|-------|--------|-------|-------|--------|------|
| S 1 | 2 43 54 | 9♉10'36 | 2♊39 | 21♌21 | 13°R 6 | 27♍15 | 7♎ 4 | 11°R 5 | 27♎29 | 10°R 8 | 2°R48 | 16°R44 | 18♏ 2 | 13♐ 5 | 23°R18 | S 1 |
| S 2 | 2 47 50 | 10°10'18 | 14°39 | 22° 3 | 13♌ 0 | 27°36 | 7°13 | 11♏ 1 | 27°33 | 10♏ 8 | 2♊47 | 16♏37 | 17°59 | 13°12 | 23♊15 | S 2 |
| M 3 | 2 51 47 | 11°10'03 | 26°34 | 22°52 | 12°57 | 27°57 | 7°22 | 10°57 | 27°36 | 10° 7 | 2°46 | 16°30 | 17°55 | 13°18 | 23°13 | M 3 |
| T 4 | 2 55 43 | 12° 9'50 | 8♌25 | 23°50 | 12°D56 | 28°18 | 7°31 | 10°53 | 27°40 | 10° 6 | 2°45 | 16°25 | 17°52 | 13°25 | 23°10 | T 4 |
| W 5 | 2 59 40 | 13° 9'38 | 20°14 | 24°53 | 12°58 | 28°38 | 7°39 | 10°49 | 27°44 | 10° 6 | 2°44 | 16°20 | 17°49 | 13°32 | 23° 8 | W 5 |
| T 6 | 3 3 37 | 14° 9'29 | 2♏ 3 | 26° 2 | 13° 2 | 28°58 | 7°48 | 10°45 | 27°48 | 10° 5 | 2°43 | 16°18 | 17°46 | 13°38 | 23° 5 | T 6 |
| F 7 | 3 7 33 | 15° 9'21 | 13°54 | 27°16 | 13° 9 | 29°17 | 7°56 | 10°41 | 27°51 | 10° 4 | 2°43 | 16°D16 | 17°43 | 13°45 | 23° 3 | F 7 |
| S 8 | 3 11 30 | 16° 9'16 | 25°51 | 28°35 | 13°18 | 29°36 | 8° 4 | 10°37 | 27°55 | 10° 3 | 2°42 | 16°17 | 17°39 | 13°52 | 23° 0 | S 8 |
| S 9 | 3 15 26 | 17° 9'13 | 7♌55 | 29°57 | 13°29 | 29°54 | 8°12 | 10°32 | 27°59 | 10° 2 | 2°41 | 16°18 | 17°36 | 13°58 | 22°58 | S 9 |
| M10 | 3 19 23 | 18° 9'11 | 20°11 | 1♏21 | 13°42 | 0♏11 | 8°20 | 10°28 | 28° 2 | 10° 1 | 2°40 | 16°20 | 17°33 | 14° 5 | 22°55 | M10 |
| T 11 | 3 23 19 | 19° 9'12 | 2♏42 | 2°49 | 13°57 | 0°28 | 8°28 | 10°24 | 28° 6 | 10° 1 | 2°39 | 16°22 | 17°30 | 14°12 | 22°53 | T 11 |
| W12 | 3 27 16 | 20° 9'15 | 15°33 | 4°18 | 14°15 | 0°45 | 8°36 | 10°19 | 28° 9 | 10° 0 | 2°39 | 16°R23 | 17°27 | 14°18 | 22°51 | W12 |
| T 13 | 3 31 12 | 21° 9'20 | 28°46 | 5°50 | 14°34 | 1° 1 | 8°44 | 10°15 | 28°13 | 9°59 | 2°38 | 16°22 | 17°24 | 14°25 | 22°48 | T 13 |
| F 14 | 3 35 9 | 22° 9'27 | 12♏26 | 7°22 | 14°55 | 1°16 | 8°51 | 10°11 | 28°17 | 9°58 | 2°37 | 16°21 | 17°20 | 14°32 | 22°46 | F 14 |
| S 15 | 3 39 6 | 23° 9'36 | 26°33 | 8°56 | 15°19 | 1°31 | 8°58 | 10° 6 | 28°20 | 9°57 | 2°36 | 16°19 | 17°17 | 14°38 | 22°44 | S 15 |
| S 16 | 3 43 2 | 24° 9'47 | 11♏ 6 | 10°30 | 15°44 | 1°45 | 9° 6 | 10° 1 | 28°24 | 9°56 | 2°36 | 16°16 | 17°14 | 14°45 | 22°41 | S 16 |
| M17 | 3 46 59 | 25°10'00 | 26° 0 | 12° 5 | 16°10 | 1°59 | 9°13 | 9°57 | 28°27 | 9°54 | 2°35 | 16°13 | 17°11 | 14°52 | 22°39 | M17 |
| T 18 | 3 50 55 | 26°10'16 | 11♏ 8 | 13°41 | 16°39 | 2°12 | 9°19 | 9°52 | 28°31 | 9°53 | 2°34 | 16°10 | 17° 8 | 14°58 | 22°37 | T 18 |
| W19 | 3 54 52 | 27°10'32 | 26°22 | 15°17 | 17° 9 | 2°25 | 9°26 | 9°47 | 28°34 | 9°52 | 2°34 | 16° 9 | 17° 5 | 15° 5 | 22°35 | W19 |
| T 20 | 3 58 48 | 28°10'51 | 11♏30 | 16°54 | 17°40 | 2°36 | 9°33 | 9°43 | 28°37 | 9°51 | 2°33 | 16°D 8 | 17° 1 | 15°12 | 22°33 | T 20 |
| F 21 | 4 2 45 | 29°11'12 | 26°24 | 18°30 | 18°13 | 2°47 | 9°39 | 9°38 | 28°41 | 9°50 | 2°33 | 16° 8 | 16°58 | 15°18 | 22°31 | F 21 |
| S 22 | 4 6 41 | 0♏11'34 | 10♏57 | 20° 6 | 18°48 | 2°58 | 9°46 | 9°33 | 28°44 | 9°49 | 2°32 | 16° 9 | 16°55 | 15°25 | 22°29 | S 22 |
| S 23 | 4 10 38 | 1°11'57 | 25° 5 | 21°43 | 19°24 | 3° 7 | 9°52 | 9°28 | 28°48 | 9°47 | 2°32 | 16°10 | 16°52 | 15°32 | 22°27 | S 23 |
| M24 | 4 14 35 | 2°12'22 | 8♏45 | 23°19 | 20° 1 | 3°16 | 9°58 | 9°24 | 28°51 | 9°46 | 2°31 | 16°11 | 16°49 | 15°38 | 22°25 | M24 |
| T 25 | 4 18 31 | 3°12'47 | 21°59 | 24°56 | 20°39 | 3°25 | 10° 4 | 9°19 | 28°54 | 9°45 | 2°31 | 16°12 | 16°45 | 15°45 | 22°23 | T 25 |
| W26 | 4 22 28 | 4°13'15 | 4♏49 | 26°32 | 21°19 | 3°32 | 10° 9 | 9°14 | 28°58 | 9°44 | 2°30 | 16°R12 | 16°42 | 15°52 | 22°21 | W26 |
| T 27 | 4 26 24 | 5°13'43 | 17°19 | 28° 8 | 22° 0 | 3°39 | 10°15 | 9° 9 | 29° 1 | 9°42 | 2°30 | 16°12 | 16°39 | 15°58 | 22°19 | T 27 |
| F 28 | 4 30 21 | 6°14'13 | 29°33 | 29°44 | 22°42 | 3°45 | 10°20 | 9° 4 | 29° 4 | 9°41 | 2°29 | 16°11 | 16°36 | 16° 5 | 22°17 | F 28 |
| S 29 | 4 34 17 | 7°14'43 | 11♏36 | 1♏20 | 23°25 | 3°51 | 10°25 | 8°59 | 29° 7 | 9°40 | 2°29 | 16°10 | 16°33 | 16°12 | 22°16 | S 29 |
| S 30 | 4 38 14 | 8♏15'16 | 23♏30 | 2♏55 | 24♏ 9 | 3♏56 | 10♏30 | 8♏54 | 29♏10 | 9♏38 | 2♏28 | 16♏ 9 | 16♏30 | 16♏18 | 22♏14 | S 30 |

Delta T = 17m44s

DECEMBER 2560

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|------|
| M 1 | 4 42 10 | 9♏15'49 | 5♏20 | 4♏31 | 24♏54 | 3♏59 | 10♏35 | 8°R49 | 29♏14 | 9°R37 | 2°R28 | 16°R 8 | 16♏26 | 16♏25 | 22°R12 | M 1 |
| T 2 | 4 46 7 | 10°16'24 | 17° 9 | 6° 6 | 25°41 | 4° 3 | 10°40 | 8♏44 | 29°17 | 9♏35 | 2♏28 | 16♏ 7 | 16°23 | 16°32 | 22♏11 | T 2 |
| W 3 | 4 50 4 | 11°17'00 | 28°59 | 7°41 | 26°28 | 4° 5 | 10°45 | 8°40 | 29°20 | 9°34 | 2°27 | 16° 6 | 16°20 | 16°38 | 22° 9 | W 3 |
| T 4 | 4 54 0 | 12°17'37 | 10♏53 | 9°16 | 27°16 | 4° 7 | 10°49 | 8°35 | 29°23 | 9°33 | 2°27 | 16°D 6 | 16°17 | 16°45 | 22° 8 | T 4 |
| F 5 | 4 57 57 | 13°18'16 | 22°52 | 10°51 | 28° 5 | 4°R 7 | 10°53 | 8°30 | 29°26 | 9°31 | 2°27 | 16° 6 | 16°14 | 16°52 | 22° 6 | F 5 |
| S 6 | 5 1 53 | 14°18'56 | 4♏59 | 12°25 | 28°55 | 4° 7 | 10°57 | 8°25 | 29°29 | 9°30 | 2°27 | 16° 6 | 16°11 | 16°58 | 22° 5 | S 6 |
| S 7 | 5 5 50 | 15°19'38 | 17°15 | 14° 0 | 29°45 | 4° 6 | 11° 1 | 8°20 | 29°32 | 9°28 | 2°26 | 16° 6 | 16° 7 | 17° 5 | 22° 3 | S 7 |
| M 8 | 5 9 46 | 16°20'21 | 29°43 | 15°34 | 0♏37 | 4° 5 | 11° 5 | 8°15 | 29°35 | 9°27 | 2°26 | 16°R 6 | 16° 4 | 17°12 | 22° 2 | M 8 |
| T 9 | 5 13 43 | 17°21'06 | 12♏24 | 17° 8 | 1°29 | 4° 2 | 11° 8 | 8°11 | 29°37 | 9°25 | 2°26 | 16° 6 | 16° 1 | 17°18 | 22° 1 | T 9 |
| W10 | 5 17 39 | 18°21'51 | 25°20 | 18°43 | 2°22 | 3°59 | 11°12 | 8° 6 | 29°40 | 9°23 | 2°26 | 16° 6 | 15°58 | 17°25 | 21°59 | W10 |
| T 11 | 5 21 36 | 19°22'39 | 8♏34 | 20°17 | 3°16 | 3°54 | 11°15 | 8° 1 | 29°43 | 9°22 | 2°26 | 16° 6 | 15°55 | 17°32 | 21°58 | T 11 |
| F 12 | 5 25 33 | 20°23'27 | 22° 8 | 21°51 | 4°10 | 3°49 | 11°18 | 7°56 | 29°46 | 9°20 | 2°26 | 16°D 6 | 15°51 | 17°38 | 21°57 | F 12 |
| S 13 | 5 29 29 | 21°24'17 | 6♏ 2 | 23°25 | 5° 5 | 3°43 | 11°20 | 7°52 | 29°49 | 9°19 | 2°25 | 16° 6 | 15°48 | 17°45 | 21°56 | S 13 |
| S 14 | 5 33 26 | 22°25'09 | 20°16 | 24°59 | 6° 0 | 3°36 | 11°23 | 7°47 | 29°51 | 9°17 | 2°25 | 16° 6 | 15°45 | 17°52 | 21°55 | S 14 |
| M15 | 5 37 22 | 23°26'02 | 4♏49 | 26°33 | 6°57 | 3°29 | 11°25 | 7°42 | 29°54 | 9°15 | 2°25 | 16° 7 | 15°42 | 17°58 | 21°54 | M15 |
| T 16 | 5 41 19 | 24°26'56 | 19°36 | 28° 7 | 7°53 | 3°20 | 11°28 | 7°38 | 29°56 | 9°14 | 2°D25 | 16° 8 | 15°39 | 18° 5 | 21°53 | T 16 |
| W17 | 5 45 15 | 25°27'51 | 4♏31 | 29°42 | 8°51 | 3°11 | 11°30 | 7°33 | 29°59 | 9°12 | 2°25 | 16° 8 | 15°36 | 18°12 | 21°52 | W17 |
| T 18 | 5 49 12 | 26°28'48 | 19°27 | 1♏16 | 9°49 | 3° 0 | 11°31 | 7°29 | 0♏ 2 | 9°11 | 2°25 | 16°R 8 | 15°32 | 18°18 | 21°51 | T 18 |
| F 19 | 5 53 8 | 27°29'45 | 4♏16 | 2°50 | 10°47 | 2°49 | 11°33 | 7°24 | 0° 4 | 9° 9 | 2°25 | 16° 8 | 15°29 | 18°25 | 21°50 | F 19 |
| S 20 | 5 57 5 | 28°30'44 | 18°51 | 4°24 | 11°46 | 2°37 | 11°35 | 7°20 | 0° 6 | 9° 7 | 2°26 | 16° 7 | 15°26 | 18°32 | 21°50 | S 20 |
| S 21 | 6 1 2 | 29°31'43 | 3♏ 4 | 5°59 | 12°45 | 2°24 | 11°36 | 7°15 | 0° 9 | 9° 6 | 2°26 | 16° 5 | 15°23 | 18°38 | 21°49 | S 21 |
| M22 | 6 4 58 | 0♏32'43 | 16°52 | 7°33 | 13°45 | 2°11 | 11°37 | 7°11 | 0°11 | 9° 4 | 2°26 | 16° 3 | 15°20 | 18°45 | 21°48 | M22 |
| T 23 | 6 8 55 | 1°33'43 | 0♏14 | 9° 8 | 14°45 | 1°56 | 11°38 | 7° 7 | 0°13 | 9° 2 | 2°26 | 16° 1 | 15°17 | 18°52 | 21°48 | T 23 |
| W24 | 6 12 51 | 2°34'43 | 13°11 | 10°42 | 15°46 | 1°41 | 11°38 | 7° 3 | 0°16 | 9° 1 | 2°26 | 16° 0 | 15°13 | 18°58 | 21°47 | W24 |
| T 25 | 6 16 48 | 3°35'45 | 25°45 | 12°17 | 16°47 | 1°25 | 11°39 | 6°59 | 0°18 | 8°59 | 2°26 | 15°59 | 15°10 | 19° 5 | 21°47 | T 25 |
| F 26 | 6 20 44 | 4°36'46 | 8♏ 1 | 13°51 | 17°49 | 1° 9 | 11°39 | 6°55 | 0°20 | 8°57 | 2°27 | 15°D59 | 15° 7 | 19°12 | 21°47 | F 26 |
| S 27 | 6 24 41 | 5°37'48 | 20° 3 | 15°26 | 18°51 | 0°51 | 11°R39 | 6°51 | 0°22 | 8°55 | 2°27 | 15°59 | 15° 4 | 19°18 | 21°46 | S 27 |
| S 28 | 6 28 38 | 6°38'50 | 1♏56 | 17° 1 | 19°53 | 0°33 | 11°39 | 6°47 | 0°24 | 8°54 | 2°27 | 16° 1 | 15° 1 | 19°25 | 21°46 | S 28 |
| M29 | 6 32 34 | 7°39'53 | 13°44 | 18°36 | 20°56 | 0°15 | 11°39 | 6°43 | 0°26 | 8°52 | 2°27 | 16° 2 | 14°57 | 19°32 | 21°46 | M29 |
| T 30 | 6 36 31 | 8°40'56 | 25°33 | 20°10 | 21°59 | 29♏55 | 11°38 | 6°39 | 0°28 | 8°50 | 2°28 | 16° 4 | 14°54 | 19°38 | 21°46 | T 30 |
| W31 | 6 40 27 | 9♏41'59 | 7♏25 | 21♏45 | 23♏ 2 | 29♏35 | 11♏38 | 6♏35 | 0♏30 | 8♏49 | 2♏28 | 16♏ 5 | 14♏51 | 19♏45 | 21♏45 | W31 |

Delta T = 17m45s

ASTRODIENST EPHEMERIS for the year 2561
geocentric

JANUARY 2561

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|--------|-------|--------|--------|-------|------|-------|-------|--------|-------|-------|--------|------|-----|
| T 1 | 6 44 24 | 10♌43'03 | 19♏25 | 23♎20 | 24♍6 | 29°R15 | 11°R37 | 6°R32 | 0♍32 | 8°R47 | 2°V28 | 16°R 5 | 14♏48 | 19♌52 | 21°R45 | T 1 | |
| F 2 | 6 48 20 | 11°44'07 | 1♌35 | 24°54 | 25°10 | 28♌54 | 11♎36 | 6♏28 | 0°34 | 8♌45 | 2°29 | 16♏4 | 14°45 | 19°58 | 21°D45 | F 2 | |
| S 3 | 6 52 17 | 12°45'12 | 13°57 | 26°28 | 26°14 | 28°32 | 11°34 | 6°25 | 0°36 | 8°44 | 2°29 | 16°2 | 14°42 | 20°5 | 21°V45 | S 3 | |
| S 4 | 6 56 13 | 13°46'16 | 26°31 | 28°2 | 27°18 | 28°11 | 11°33 | 6°21 | 0°37 | 8°42 | 2°30 | 15°58 | 14°38 | 20°12 | 21°45 | S 4 | |
| M 5 | 7 0 10 | 14°47'22 | 9♏18 | 29°35 | 28°23 | 27°48 | 11°31 | 6°18 | 0°39 | 8°40 | 2°30 | 15°54 | 14°35 | 20°18 | 21°46 | M 5 | |
| T 6 | 7 4 7 | 15°48'27 | 22°19 | 1♌7 | 29°29 | 27°26 | 11°29 | 6°15 | 0°41 | 8°39 | 2°31 | 15°49 | 14°32 | 20°25 | 21°46 | T 6 | |
| W 7 | 7 8 3 | 16°49'33 | 5♎33 | 2°39 | 0♌34 | 27°3 | 11°27 | 6°12 | 0°42 | 8°37 | 2°31 | 15°44 | 14°29 | 20°32 | 21°46 | W 7 | |
| T 8 | 7 12 0 | 17°50'39 | 18°59 | 4°10 | 1°40 | 26°39 | 11°25 | 6°9 | 0°44 | 8°35 | 2°32 | 15°40 | 14°26 | 20°38 | 21°46 | T 8 | |
| F 9 | 7 15 56 | 18°51'46 | 2♌38 | 5°39 | 2°46 | 26°16 | 11°23 | 6°6 | 0°45 | 8°34 | 2°32 | 15°37 | 14°23 | 20°45 | 21°47 | F 9 | |
| S 10 | 7 19 53 | 19°52'53 | 16°29 | 7°7 | 3°52 | 25°52 | 11°20 | 6°3 | 0°47 | 8°32 | 2°33 | 15°D36 | 14°19 | 20°52 | 21°47 | S 10 | |
| S 11 | 7 23 49 | 20°54'01 | 0♍31 | 8°33 | 4°58 | 25°28 | 11°17 | 6°0 | 0°48 | 8°30 | 2°34 | 15°36 | 14°16 | 20°58 | 21°48 | S 11 | |
| M12 | 7 27 46 | 21°55'09 | 14°44 | 9°58 | 6°5 | 25°4 | 11°14 | 5°58 | 0°49 | 8°29 | 2°34 | 15°37 | 14°13 | 21°5 | 21°48 | M12 | |
| T 13 | 7 31 42 | 22°56'17 | 29°6 | 11°19 | 7°12 | 24°40 | 11°11 | 5°55 | 0°50 | 8°27 | 2°35 | 15°39 | 14°10 | 21°12 | 21°49 | T 13 | |
| W14 | 7 35 39 | 23°57'26 | 13♌34 | 12°37 | 8°19 | 24°16 | 11°8 | 5°53 | 0°52 | 8°25 | 2°35 | 15°R40 | 14°7 | 21°18 | 21°50 | W14 | |
| T 15 | 7 39 36 | 24°58'35 | 28°4 | 13°52 | 9°26 | 23°52 | 11°4 | 5°50 | 0°53 | 8°24 | 2°36 | 15°39 | 14°3 | 21°25 | 21°50 | T 15 | |
| F 16 | 7 43 32 | 25°59'44 | 12♌32 | 15°3 | 10°34 | 23°29 | 11°1 | 5°48 | 0°54 | 8°22 | 2°37 | 15°36 | 14°0 | 21°32 | 21°51 | F 16 | |
| S 17 | 7 47 29 | 27°0'53 | 26°50 | 16°8 | 11°42 | 23°5 | 10°57 | 5°46 | 0°55 | 8°20 | 2°38 | 15°32 | 13°57 | 21°38 | 21°52 | S 17 | |
| S 18 | 7 51 25 | 28°2'02 | 10♌54 | 17°8 | 12°50 | 22°42 | 10°53 | 5°44 | 0°56 | 8°19 | 2°38 | 15°25 | 13°54 | 21°45 | 21°53 | S 18 | |
| M19 | 7 55 22 | 29°3'10 | 24°39 | 18°1 | 13°58 | 22°18 | 10°48 | 5°42 | 0°57 | 8°17 | 2°39 | 15°17 | 13°51 | 21°51 | 21°54 | M19 | |
| T 20 | 7 59 18 | 0♌4'18 | 8♌2 | 18°47 | 15°6 | 21°56 | 10°44 | 5°40 | 0°58 | 8°16 | 2°40 | 15°10 | 13°48 | 21°58 | 21°55 | T 20 | |
| W21 | 8 3 15 | 1°5'26 | 21°1 | 19°25 | 16°14 | 21°33 | 10°39 | 5°38 | 0°58 | 8°14 | 2°41 | 15°2 | 13°44 | 22°5 | 21°56 | W21 | |
| T 22 | 8 7 11 | 2°6'32 | 3°V39 | 19°53 | 17°23 | 21°11 | 10°34 | 5°37 | 0°59 | 8°13 | 2°42 | 14°56 | 13°41 | 22°11 | 21°57 | T 22 | |
| F 23 | 8 11 8 | 3°7'39 | 15°58 | 20°11 | 18°32 | 20°49 | 10°30 | 5°35 | 1°0 | 8°11 | 2°43 | 14°53 | 13°38 | 22°18 | 21°58 | F 23 | |
| S 24 | 8 15 5 | 4°8'45 | 28°1 | 20°R19 | 19°40 | 20°28 | 10°24 | 5°34 | 1°1 | 8°10 | 2°43 | 14°51 | 13°35 | 22°25 | 21°59 | S 24 | |
| S 25 | 8 19 1 | 5°9'50 | 9♌54 | 20°15 | 20°49 | 20°8 | 10°19 | 5°32 | 1°1 | 8°8 | 2°44 | 14°D51 | 13°32 | 22°31 | 22°0 | S 25 | |
| M26 | 8 22 58 | 6°10'54 | 21°43 | 20°0 | 21°59 | 19°47 | 10°14 | 5°31 | 1°2 | 8°7 | 2°45 | 14°52 | 13°29 | 22°38 | 22°2 | M26 | |
| T 27 | 8 26 54 | 7°11'58 | 3♏32 | 19°33 | 23°8 | 19°28 | 10°8 | 5°30 | 1°2 | 8°5 | 2°46 | 14°53 | 13°25 | 22°45 | 22°3 | T 27 | |
| W28 | 8 30 51 | 8°13'01 | 15°26 | 18°54 | 24°17 | 19°9 | 10°3 | 5°29 | 1°3 | 8°4 | 2°47 | 14°R54 | 13°22 | 22°51 | 22°4 | W28 | |
| T 29 | 8 34 47 | 9°14'03 | 27°31 | 18°5 | 25°27 | 18°51 | 9°57 | 5°28 | 1°3 | 8°2 | 2°48 | 14°53 | 13°19 | 22°58 | 22°6 | T 29 | |
| F 30 | 8 38 44 | 10°15'04 | 9♌49 | 17°7 | 26°36 | 18°33 | 9°51 | 5°27 | 1°3 | 8°1 | 2°49 | 14°49 | 13°16 | 23°5 | 22°7 | F 30 | |
| S 31 | 8 42 40 | 11°16'05 | 22♌24 | 16°0 | 27°46 | 18♌16 | 9♎45 | 5♏27 | 1♍3 | 8♌0 | 2°V50 | 14♏44 | 13♏13 | 23♌11 | 22°V9 | S 31 | |

Delta T = 17m45s

FEBRUARY 2561

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|--------|--------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|--------|------|-----|
| S 1 | 8 46 37 | 12♌17'05 | 5♏16 | 14°R49 | 28♌56 | 18°R 0 | 9°R38 | 5°R26 | 1♍4 | 7°R58 | 2°V51 | 14°R36 | 13♏9 | 23♌18 | 22°V11 | S 1 | |
| M 2 | 8 50 34 | 13°18'04 | 18°27 | 13♌33 | 0♌6 | 17♌44 | 9♎32 | 5♏26 | 1°4 | 7♌57 | 2°52 | 14♏26 | 13°6 | 23°25 | 22°12 | M 2 | |
| T 3 | 8 54 30 | 14°19'02 | 1♎53 | 12°17 | 1°16 | 17°30 | 9°25 | 5°26 | 1°4 | 7°56 | 2°53 | 14°15 | 13°3 | 23°31 | 22°14 | T 3 | |
| W 4 | 8 58 27 | 15°19'59 | 15°33 | 11°1 | 2°27 | 17°16 | 9°19 | 5°25 | 1°R 4 | 7°54 | 2°54 | 14°4 | 13°0 | 23°38 | 22°16 | W 4 | |
| T 5 | 9 2 23 | 16°20'56 | 29°23 | 9°49 | 3°37 | 17°2 | 9°12 | 5°D25 | 1°4 | 7°53 | 2°56 | 13°55 | 12°57 | 23°45 | 22°17 | T 5 | |
| F 6 | 9 6 20 | 17°21'52 | 13♌20 | 8°41 | 4°48 | 16°50 | 9°5 | 5°25 | 1°4 | 7°52 | 2°57 | 13°48 | 12°54 | 23°51 | 22°19 | F 6 | |
| S 7 | 9 10 16 | 18°22'48 | 27°22 | 7°40 | 5°58 | 16°38 | 8°58 | 5°26 | 1°4 | 7°51 | 2°58 | 13°44 | 12°50 | 23°58 | 22°21 | S 7 | |
| S 8 | 9 14 13 | 19°23'43 | 11♍26 | 6°47 | 7°9 | 16°27 | 8°51 | 5°26 | 1°3 | 7°49 | 2°59 | 13°42 | 12°47 | 24°5 | 22°23 | S 8 | |
| M 9 | 9 18 9 | 20°24'37 | 25°32 | 6°2 | 8°20 | 16°17 | 8°44 | 5°26 | 1°3 | 7°48 | 3°0 | 13°D42 | 12°44 | 24°11 | 22°25 | M 9 | |
| T 10 | 9 22 6 | 21°25'31 | 9♌38 | 5°25 | 9°30 | 16°8 | 8°37 | 5°27 | 1°3 | 7°47 | 3°1 | 13°R42 | 12°41 | 24°18 | 22°27 | T 10 | |
| W11 | 9 26 3 | 22°26'24 | 23°43 | 4°57 | 10°41 | 15°59 | 8°30 | 5°27 | 1°2 | 7°46 | 3°3 | 13°42 | 12°38 | 24°25 | 22°29 | W11 | |
| T 12 | 9 29 59 | 23°27'17 | 7♌46 | 4°38 | 11°53 | 15°52 | 8°22 | 5°28 | 1°2 | 7°45 | 3°4 | 13°40 | 12°35 | 24°31 | 22°31 | T 12 | |
| F 13 | 9 33 56 | 24°28'08 | 21°45 | 4°26 | 13°4 | 15°45 | 8°15 | 5°29 | 1°2 | 7°44 | 3°5 | 13°35 | 12°31 | 24°38 | 22°33 | F 13 | |
| S 14 | 9 37 52 | 25°28'59 | 5♌37 | 4°D23 | 14°15 | 15°39 | 8°7 | 5°30 | 1°1 | 7°43 | 3°6 | 13°27 | 12°28 | 24°44 | 22°36 | S 14 | |
| S 15 | 9 41 49 | 26°29'48 | 19°19 | 4°27 | 15°26 | 15°33 | 8°0 | 5°31 | 1°0 | 7°42 | 3°8 | 13°16 | 12°25 | 24°51 | 22°38 | S 15 | |
| M16 | 9 45 45 | 27°30'37 | 2♌47 | 4°39 | 16°37 | 15°29 | 7°52 | 5°32 | 1°0 | 7°41 | 3°9 | 13°4 | 12°22 | 24°58 | 22°40 | M16 | |
| T 17 | 9 49 42 | 28°31'24 | 15°59 | 4°56 | 17°49 | 15°25 | 7°44 | 5°33 | 0°59 | 7°40 | 3°10 | 12°51 | 12°19 | 25°4 | 22°42 | T 17 | |
| W18 | 9 53 38 | 29°32'09 | 28°52 | 5°20 | 19°0 | 15°22 | 7°36 | 5°35 | 0°58 | 7°39 | 3°11 | 12°38 | 12°15 | 25°11 | 22°45 | W18 | |
| T 19 | 9 57 35 | 0♌32'54 | 11°V26 | 5°49 | 20°12 | 15°20 | 7°29 | 5°36 | 0°57 | 7°38 | 3°13 | 12°28 | 12°12 | 25°18 | 22°47 | T 19 | |
| F 20 | 10 1 32 | 1°33'37 | 23°44 | 6°23 | 21°24 | 15°19 | 7°21 | 5°38 | 0°57 | 7°37 | 3°14 | 12°19 | 12°9 | 25°24 | 22°50 | F 20 | |
| S 21 | 10 5 28 | 2°34'18 | 5♌47 | 7°2 | 22°35 | 15°D18 | 7°13 | 5°40 | 0°56 | 7°36 | 3°15 | 12°14 | 12°6 | 25°31 | 22°52 | S 21 | |
| S 22 | 10 9 25 | 3°34'58 | 17°41 | 7°46 | 23°47 | 15°18 | 7°5 | 5°41 | 0°55 | 7°36 | 3°17 | 12°11 | 12°3 | 25°38 | 22°55 | S 22 | |
| M23 | 10 13 21 | 4°35'36 | 29°29 | 8°33 | 24°59 | 15°19 | 6°57 | 5°43 | 0°54 | 7°35 | 3°18 | 12°10 | 12°0 | 25°44 | 22°57 | M23 | |
| T 24 | 10 17 18 | 5°36'12 | 11♏17 | 9°23 | 26°11 | 15°21 | 6°49 | 5°45 | 0°53 | 7°34 | 3°20 | 12°10 | 11°56 | 25°51 | 23°0 | T 24 | |
| W25 | 10 21 14 | 6°36'47 | 23°12 | 10°17 | 27°22 | 15°23 | 6°41 | 5°47 | 0°52 | 7°33 | 3°21 | 12°10 | 11°53 | 25°58 | 23°3 | W25 | |
| T 26 | 10 25 11 | 7°37'20 | 5♌17 | 11°14 | 28°34 | 15°26 | 6°33 | 5°50 | 0°50 | 7°33 | 3°22 | 12°8 | 11°50 | 26°4 | 23°5 | T 26 | |
| F 27 | 10 29 7 | 8°37'52 | 17°39 | 12°14 | 29°46 | 15°30 | 6°25 | 5°52 | 0°49 | 7°32 | 3°24 | 12°4 | 11°47 | 26°11 | 23°8 | F 27 | |
| S 28 | 10 33 4 | 9♌38'22 | 0♏21 | 13♌17 | 0♌58 | 15♌35 | 6♎18 | 5♏55 | 0♍48 | 7♌31 | 3°V25 | 11♏58 | 11♏44 | 26♌18 | 23°V11 | S 28 | |

Delta T = 17m45s

ASTRODIENST EPHEMERIS for the year 2561
geocentric

MARCH 2561

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|-------|------|--------|-------|-------|-------|------|
| S 1 | 10 37 1 | 10♌38'50 | 13♋26 | 14♌22 | 2♌11 | 15♌40 | 6°R10 | 5♌57 | 0°R47 | 7°R31 | 3♌27 | 11°R48 | 11♌40 | 26♌24 | 23♌13 | S 1 |
| M 2 | 10 40 57 | 11°39'16 | 26°54 | 15°29 | 3°23 | 15°46 | 6♌ 2 | 6° 0 | 0♌45 | 7♌30 | 3°28 | 11♌37 | 11°37 | 26°31 | 23°16 | M 2 |
| T 3 | 10 44 54 | 12°39'41 | 10♌42 | 16°38 | 4°35 | 15°52 | 5°54 | 6° 3 | 0°44 | 7°30 | 3°29 | 11°24 | 11°34 | 26°38 | 23°19 | T 3 |
| W 4 | 10 48 50 | 13°40'03 | 24°49 | 17°49 | 5°47 | 15°59 | 5°46 | 6° 6 | 0°42 | 7°29 | 3°31 | 11°12 | 11°31 | 26°44 | 23°22 | W 4 |
| T 5 | 10 52 47 | 14°40'25 | 9♌ 7 | 19° 2 | 6°59 | 16° 7 | 5°38 | 6° 9 | 0°41 | 7°29 | 3°32 | 11° 0 | 11°28 | 26°51 | 23°25 | T 5 |
| F 6 | 10 56 43 | 15°40'45 | 23°31 | 20°17 | 8°12 | 16°16 | 5°31 | 6°12 | 0°39 | 7°28 | 3°34 | 10°52 | 11°25 | 26°57 | 23°28 | F 6 |
| S 7 | 11 0 40 | 16°41'03 | 7♌56 | 21°34 | 9°24 | 16°25 | 5°23 | 6°15 | 0°38 | 7°28 | 3°35 | 10°46 | 11°21 | 27° 4 | 23°31 | S 7 |
| S 8 | 11 4 36 | 17°41'20 | 22°16 | 22°52 | 10°36 | 16°34 | 5°15 | 6°18 | 0°36 | 7°28 | 3°37 | 10°43 | 11°18 | 27°11 | 23°34 | S 8 |
| M 9 | 11 8 33 | 18°41'36 | 6♌29 | 24°11 | 11°49 | 16°44 | 5° 8 | 6°21 | 0°34 | 7°27 | 3°38 | 10°D42 | 11°15 | 27°17 | 23°37 | M 9 |
| T 10 | 11 12 30 | 19°41'50 | 20°34 | 25°33 | 13° 1 | 16°55 | 5° 0 | 6°25 | 0°33 | 7°27 | 3°40 | 10°R42 | 11°12 | 27°24 | 23°40 | T 10 |
| W11 | 11 16 26 | 20°42'03 | 4♌29 | 26°55 | 14°14 | 17° 6 | 4°53 | 6°29 | 0°31 | 7°27 | 3°41 | 10°42 | 11° 9 | 27°31 | 23°43 | W11 |
| T 12 | 11 20 23 | 21°42'15 | 18°15 | 28°19 | 15°26 | 17°18 | 4°46 | 6°32 | 0°29 | 7°26 | 3°43 | 10°40 | 11° 6 | 27°37 | 23°46 | T 12 |
| F 13 | 11 24 19 | 22°42'25 | 1♌52 | 29°44 | 16°39 | 17°30 | 4°38 | 6°36 | 0°27 | 7°26 | 3°44 | 10°35 | 11° 2 | 27°44 | 23°49 | F 13 |
| S 14 | 11 28 16 | 23°42'33 | 15°19 | 1♌10 | 17°52 | 17°43 | 4°31 | 6°40 | 0°26 | 7°26 | 3°46 | 10°27 | 10°59 | 27°51 | 23°52 | S 14 |
| S 15 | 11 32 12 | 24°42'40 | 28°35 | 2°38 | 19° 4 | 17°57 | 4°24 | 6°44 | 0°24 | 7°26 | 3°47 | 10°16 | 10°56 | 27°57 | 23°55 | S 15 |
| M16 | 11 36 9 | 25°42'45 | 11♌40 | 4° 7 | 20°17 | 18°11 | 4°17 | 6°48 | 0°22 | 7°26 | 3°49 | 10° 4 | 10°53 | 28° 4 | 23°59 | M16 |
| T 17 | 11 40 5 | 26°42'48 | 24°32 | 5°37 | 21°30 | 18°25 | 4°10 | 6°52 | 0°20 | 7°26 | 3°50 | 9°51 | 10°50 | 28°11 | 24° 2 | T 17 |
| W18 | 11 44 2 | 27°42'49 | 7♌10 | 7° 9 | 22°43 | 18°40 | 4° 4 | 6°56 | 0°18 | 7°D26 | 3°52 | 9°38 | 10°46 | 28°17 | 24° 5 | W18 |
| T 19 | 11 47 59 | 28°42'49 | 19°34 | 8°41 | 23°55 | 18°55 | 3°57 | 7° 0 | 0°16 | 7°26 | 3°53 | 9°27 | 10°43 | 28°24 | 24° 8 | T 19 |
| F 20 | 11 51 55 | 29°42'46 | 1♌45 | 10°15 | 25° 8 | 19°11 | 3°50 | 7° 5 | 0°14 | 7°26 | 3°55 | 9°19 | 10°40 | 28°31 | 24°12 | F 20 |
| S 21 | 11 55 52 | 0♌42'42 | 13°44 | 11°50 | 26°21 | 19°27 | 3°44 | 7° 9 | 0°11 | 7°26 | 3°57 | 9°13 | 10°37 | 28°37 | 24°15 | S 21 |
| S 22 | 11 59 48 | 1°42'35 | 25°36 | 13°26 | 27°34 | 19°44 | 3°38 | 7°14 | 0° 9 | 7°26 | 3°58 | 9°10 | 10°34 | 28°44 | 24°18 | S 22 |
| M23 | 12 3 45 | 2°42'26 | 7♌23 | 15° 3 | 28°47 | 20° 1 | 3°32 | 7°19 | 0° 7 | 7°26 | 4° 0 | 9°D 9 | 10°31 | 28°50 | 24°22 | M23 |
| T 24 | 12 7 41 | 3°42'15 | 19°11 | 16°42 | 29°59 | 20°19 | 3°26 | 7°23 | 0° 5 | 7°26 | 4° 1 | 9° 9 | 10°27 | 28°57 | 24°25 | T 24 |
| W25 | 12 11 38 | 4°42'02 | 1♌ 4 | 18°21 | 1♌12 | 20°36 | 3°20 | 7°28 | 0° 3 | 7°27 | 4° 3 | 9°R10 | 10°24 | 29° 4 | 24°28 | W25 |
| T 26 | 12 15 34 | 5°41'47 | 13° 8 | 20° 2 | 2°25 | 20°55 | 3°14 | 7°33 | 0° 0 | 7°27 | 4° 4 | 9° 9 | 10°21 | 29°10 | 24°32 | T 26 |
| F 27 | 12 19 31 | 6°41'30 | 25°29 | 21°44 | 3°38 | 21°14 | 3° 8 | 7°38 | 29°58 | 7°27 | 4° 6 | 9° 7 | 10°18 | 29°17 | 24°35 | F 27 |
| S 28 | 12 23 28 | 7°41'10 | 8♌11 | 23°27 | 4°51 | 21°33 | 3° 3 | 7°43 | 29°56 | 7°27 | 4° 7 | 9° 3 | 10°15 | 29°24 | 24°38 | S 28 |
| S 29 | 12 27 24 | 8°40'48 | 21°19 | 25°12 | 6° 4 | 21°52 | 2°58 | 7°48 | 29°54 | 7°28 | 4° 9 | 8°57 | 10°12 | 29°30 | 24°42 | S 29 |
| M30 | 12 31 21 | 9°40'24 | 4♌53 | 26°58 | 7°17 | 22°12 | 2°52 | 7°53 | 29°51 | 7°28 | 4°10 | 8°49 | 10° 8 | 29°37 | 24°45 | M30 |
| T 31 | 12 35 17 | 10°39'57 | 18♌53 | 28♌45 | 8♌30 | 22°32 | 2♌47 | 7♌59 | 29°49 | 7°29 | 4°12 | 8♌39 | 10♌ 5 | 29°44 | 24°49 | T 31 |

Delta T = 17m45s

APRIL 2561

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|------|------|-------|-------|-------|-------|------|
| W 1 | 12 39 14 | 11°39'29 | 3♌16 | 0♌33 | 9♌43 | 22°53 | 2°R43 | 8♌ 4 | 29°R46 | 7♌29 | 4°13 | 8°R30 | 10♌ 2 | 29°50 | 24°52 | W 1 |
| T 2 | 12 43 10 | 12°38'58 | 17°56 | 2°23 | 10°56 | 23°14 | 2♌38 | 8°10 | 29°44 | 7°30 | 4°15 | 8♌22 | 9°59 | 29°57 | 24°56 | T 2 |
| F 3 | 12 47 7 | 13°38'26 | 2♌45 | 4°14 | 12° 9 | 23°35 | 2°33 | 8°15 | 29°42 | 7°30 | 4°16 | 8°15 | 9°56 | 0♌ 4 | 24°59 | F 3 |
| S 4 | 12 51 3 | 14°37'51 | 17°35 | 6° 6 | 13°22 | 23°56 | 2°29 | 8°21 | 29°39 | 7°31 | 4°18 | 8°11 | 9°52 | 0°10 | 25° 3 | S 4 |
| S 5 | 12 55 0 | 15°37'15 | 2♌19 | 8° 0 | 14°35 | 24°18 | 2°25 | 8°26 | 29°37 | 7°31 | 4°19 | 8°D 9 | 9°49 | 0°17 | 25° 6 | S 5 |
| M 6 | 12 58 56 | 16°36'37 | 16°52 | 9°54 | 15°48 | 24°40 | 2°21 | 8°32 | 29°34 | 7°32 | 4°21 | 8° 9 | 9°46 | 0°24 | 25°10 | M 6 |
| T 7 | 13 2 53 | 17°35'58 | 1♌ 8 | 11°51 | 17° 1 | 25° 3 | 2°17 | 8°38 | 29°32 | 7°32 | 4°22 | 8°10 | 9°43 | 0°30 | 25°13 | T 7 |
| W 8 | 13 6 50 | 18°35'17 | 15° 8 | 13°48 | 18°15 | 25°25 | 2°13 | 8°44 | 29°29 | 7°33 | 4°24 | 8°R11 | 9°40 | 0°37 | 25°17 | W 8 |
| T 9 | 13 10 46 | 19°34'34 | 28°50 | 15°47 | 19°28 | 25°48 | 2°10 | 8°50 | 29°27 | 7°34 | 4°25 | 8°11 | 9°37 | 0°43 | 25°20 | T 9 |
| F 10 | 13 14 43 | 20°33'49 | 12♌16 | 17°46 | 20°41 | 26°12 | 2° 6 | 8°56 | 29°24 | 7°35 | 4°27 | 8° 9 | 9°33 | 0°50 | 25°24 | F 10 |
| S 11 | 13 18 39 | 21°33'02 | 25°27 | 19°47 | 21°54 | 26°35 | 2° 3 | 9° 2 | 29°22 | 7°35 | 4°28 | 8° 4 | 9°30 | 0°57 | 25°27 | S 11 |
| S 12 | 13 22 36 | 22°32'14 | 8♌24 | 21°49 | 23° 7 | 26°59 | 2° 0 | 9° 8 | 29°19 | 7°36 | 4°30 | 7°58 | 9°27 | 1° 3 | 25°31 | S 12 |
| M13 | 13 26 32 | 23°31'24 | 21° 8 | 23°52 | 24°20 | 27°23 | 1°58 | 9°14 | 29°16 | 7°37 | 4°31 | 7°51 | 9°24 | 1°10 | 25°34 | M13 |
| T 14 | 13 30 29 | 24°30'32 | 3♌40 | 25°56 | 25°33 | 27°47 | 1°55 | 9°20 | 29°14 | 7°38 | 4°33 | 7°43 | 9°21 | 1°17 | 25°38 | T 14 |
| W15 | 13 34 25 | 25°29'38 | 16° 0 | 28° 0 | 26°47 | 28°12 | 1°52 | 9°26 | 29°11 | 7°39 | 4°34 | 7°35 | 9°17 | 1°23 | 25°41 | W15 |
| T 16 | 13 38 22 | 26°28'42 | 28°11 | 0♌ 5 | 28° 0 | 28°37 | 1°50 | 9°33 | 29° 9 | 7°40 | 4°36 | 7°28 | 9°14 | 1°30 | 25°45 | T 16 |
| F 17 | 13 42 19 | 27°27'44 | 10♌12 | 2°10 | 29°13 | 29° 2 | 1°48 | 9°39 | 29° 6 | 7°41 | 4°37 | 7°23 | 9°11 | 1°37 | 25°49 | F 17 |
| S 18 | 13 46 15 | 28°26'44 | 22° 6 | 4°16 | 0♌26 | 29°27 | 1°46 | 9°46 | 29° 4 | 7°42 | 4°39 | 7°20 | 9° 8 | 1°43 | 25°52 | S 18 |
| S 19 | 13 50 12 | 29°25'42 | 3♌54 | 6°21 | 1°40 | 29°53 | 1°45 | 9°52 | 29° 1 | 7°43 | 4°40 | 7°D18 | 9° 5 | 1°50 | 25°56 | S 19 |
| M20 | 13 54 8 | 0♌24'37 | 15°41 | 8°25 | 2°53 | 0♌19 | 1°43 | 9°59 | 28°58 | 7°44 | 4°41 | 7°19 | 9° 2 | 1°57 | 25°59 | M20 |
| T 21 | 13 58 5 | 1°23'31 | 27°28 | 10°29 | 4° 6 | 0°45 | 1°42 | 10° 5 | 28°56 | 7°45 | 4°43 | 7°20 | 8°58 | 2° 3 | 26° 3 | T 21 |
| W22 | 14 2 1 | 2°22'23 | 9♌22 | 12°31 | 5°19 | 1°11 | 1°41 | 10°12 | 28°53 | 7°46 | 4°44 | 7°22 | 8°55 | 2°10 | 26° 6 | W22 |
| T 23 | 14 5 58 | 3°21'12 | 21°25 | 14°32 | 6°32 | 1°37 | 1°40 | 10°19 | 28°51 | 7°47 | 4°46 | 7°23 | 8°52 | 2°17 | 26°10 | T 23 |
| F 24 | 14 9 54 | 4°19'59 | 3♌44 | 16°32 | 7°46 | 2° 4 | 1°39 | 10°25 | 28°48 | 7°48 | 4°47 | 7°R24 | 8°49 | 2°23 | 26°13 | F 24 |
| S 25 | 14 13 51 | 5°18'44 | 16°24 | 18°29 | 8°59 | 2°31 | 1°39 | 10°32 | 28°45 | 7°50 | 4°48 | 7°23 | 8°46 | 2°30 | 26°17 | S 25 |
| S 26 | 14 17 48 | 6°17'26 | 29°27 | 20°23 | 10°12 | 2°58 | 1°38 | 10°39 | 28°43 | 7°51 | 4°50 | 7°21 | 8°43 | 2°36 | 26°20 | S 26 |
| M27 | 14 21 44 | 7°16'07 | 12♌57 | 22°15 | 11°25 | 3°25 | 1°D38 | 10°46 | 28°40 | 7°52 | 4°51 | 7°18 | 8°39 | 2°43 | 26°24 | M27 |
| T 28 | 14 25 41 | 8°14'45 | 26°56 | 24° 4 | 12°39 | 3°52 | 1°38 | 10°53 | 28°38 | 7°53 | 4°52 | 7°14 | 8°36 | 2°50 | 26°27 | T 28 |
| W29 | 14 29 37 | 9°13'21 | 11♌21 | 25°49 | 13°52 | 4°20 | 1°38 | 11° 0 | 28°35 | 7°55 | 4°54 | 7°10 | 8°33 | 2°56 | 26°31 | W29 |
| T 30 | 14 33 34 | 10°11'55 | 26♌ 8 | 27♌30 | 15° 5 | 4♌48 | 1♌39 | 11♌ 7 | 28♌33 | 7°56 | 4°55 | 7♌ 6 | 8♌30 | 3♌ 3 | 26°34 | T 30 |

Delta T = 17m46s

ASTRODIENST EPHEMERIS for the year 2561
geocentric

MAY 2561

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|------|-------|--------|------|------|-------|------|------|-------|------|
| F 1 | 14 37 30 | 11♁10'27 | 11♁10 | 29♁ 8 | 16♁18 | 5♁16 | 1♁39 | 11♁14 | 28°R30 | 7♁58 | 4♁56 | 7°R 3 | 8♁27 | 3♁10 | 26♁38 | F 1 |
| S 2 | 14 41 27 | 12° 8'57 | 26°18 | 0♁42 | 17°32 | 5°44 | 1°40 | 11°21 | 28♁28 | 7°59 | 4°58 | 7♁2 | 8°23 | 3°16 | 26°41 | S 2 |
| S 3 | 14 45 23 | 13° 7'25 | 11♁23 | 2°11 | 18°45 | 6°12 | 1°41 | 11°28 | 28°25 | 8° 0 | 4°59 | 7°D 2 | 8°20 | 3°23 | 26°45 | S 3 |
| M 4 | 14 49 20 | 14° 5'52 | 26°16 | 3°36 | 19°58 | 6°40 | 1°42 | 11°35 | 28°23 | 8° 2 | 5° 0 | 7° 2 | 8°17 | 3°30 | 26°48 | M 4 |
| T 5 | 14 53 17 | 15° 4'17 | 10♁51 | 4°57 | 21°11 | 7° 9 | 1°43 | 11°43 | 28°20 | 8° 3 | 5° 1 | 7° 4 | 8°14 | 3°36 | 26°51 | T 5 |
| W 6 | 14 57 13 | 16° 2'41 | 25° 4 | 6°13 | 22°25 | 7°38 | 1°45 | 11°50 | 28°18 | 8° 5 | 5° 2 | 7° 5 | 8°11 | 3°43 | 26°55 | W 6 |
| T 7 | 15 1 10 | 17° 1'03 | 8♁54 | 7°24 | 23°38 | 8° 7 | 1°47 | 11°57 | 28°16 | 8° 6 | 5° 4 | 7° 6 | 8° 8 | 3°50 | 26°58 | T 7 |
| F 8 | 15 5 6 | 17°59'23 | 22°21 | 8°31 | 24°51 | 8°36 | 1°48 | 12° 4 | 28°13 | 8° 8 | 5° 5 | 7°R 6 | 8° 4 | 3°56 | 27° 2 | F 8 |
| S 9 | 15 9 3 | 18°57'42 | 5♁26 | 9°32 | 26° 5 | 9° 5 | 1°50 | 12°12 | 28°11 | 8° 9 | 5° 6 | 7° 5 | 8° 1 | 4° 3 | 27° 5 | S 9 |
| S 10 | 15 12 59 | 19°56'00 | 18°13 | 10°29 | 27°18 | 9°34 | 1°53 | 12°19 | 28° 8 | 8°11 | 5° 7 | 7° 4 | 7°58 | 4° 9 | 27° 8 | S 10 |
| M 11 | 15 16 56 | 20°54'16 | 0♁44 | 11°21 | 28°31 | 10° 4 | 1°55 | 12°27 | 28° 6 | 8°13 | 5° 8 | 7° 2 | 7°55 | 4°16 | 27°12 | M 11 |
| T 12 | 15 20 52 | 21°52'30 | 13° 2 | 12° 8 | 29°45 | 10°33 | 1°58 | 12°34 | 28° 4 | 8°14 | 5°10 | 6°59 | 7°52 | 4°23 | 27°15 | T 12 |
| W 13 | 15 24 49 | 22°50'43 | 25° 8 | 12°49 | 0♁58 | 11° 3 | 2° 0 | 12°41 | 28° 2 | 8°16 | 5°11 | 6°57 | 7°49 | 4°29 | 27°18 | W 13 |
| T 14 | 15 28 46 | 23°48'54 | 7♁ 7 | 13°25 | 2°11 | 11°33 | 2° 3 | 12°49 | 27°59 | 8°18 | 5°12 | 6°55 | 7°45 | 4°36 | 27°21 | T 14 |
| F 15 | 15 32 42 | 24°47'04 | 19° 0 | 13°57 | 3°24 | 12° 3 | 2° 6 | 12°56 | 27°57 | 8°19 | 5°13 | 6°54 | 7°42 | 4°43 | 27°25 | F 15 |
| S 16 | 15 36 39 | 25°45'12 | 0♁48 | 14°23 | 4°38 | 12°34 | 2°10 | 13° 4 | 27°55 | 8°21 | 5°14 | 6°54 | 7°39 | 4°49 | 27°28 | S 16 |
| S 17 | 15 40 35 | 26°43'19 | 12°35 | 14°43 | 5°51 | 13° 4 | 2°13 | 13°11 | 27°53 | 8°23 | 5°15 | 6°D54 | 7°36 | 4°56 | 27°31 | S 17 |
| M 18 | 15 44 32 | 27°41'24 | 24°23 | 14°59 | 7° 4 | 13°34 | 2°17 | 13°19 | 27°51 | 8°25 | 5°16 | 6°54 | 7°33 | 5° 3 | 27°34 | M 18 |
| T 19 | 15 48 28 | 28°39'27 | 6♁13 | 15° 9 | 8°18 | 14° 5 | 2°20 | 13°27 | 27°48 | 8°26 | 5°17 | 6°55 | 7°29 | 5° 9 | 27°37 | T 19 |
| W 20 | 15 52 25 | 29°37'28 | 18°11 | 15°14 | 9°31 | 14°36 | 2°24 | 13°34 | 27°46 | 8°28 | 5°18 | 6°56 | 7°26 | 5°16 | 27°41 | W 20 |
| T 21 | 15 56 21 | 0♁35'28 | 0♁18 | 15°R14 | 10°44 | 15° 7 | 2°28 | 13°42 | 27°44 | 8°30 | 5°19 | 6°56 | 7°23 | 5°23 | 27°44 | T 21 |
| F 22 | 16 0 18 | 1°33'26 | 12°38 | 15°10 | 11°58 | 15°37 | 2°33 | 13°50 | 27°42 | 8°32 | 5°20 | 6°57 | 7°20 | 5°29 | 27°47 | F 22 |
| S 23 | 16 4 15 | 2°31'22 | 25°16 | 15° 0 | 13°11 | 16° 9 | 2°37 | 13°57 | 27°40 | 8°34 | 5°21 | 6°57 | 7°17 | 5°36 | 27°50 | S 23 |
| S 24 | 16 8 11 | 3°29'16 | 8♁15 | 14°47 | 14°24 | 16°40 | 2°42 | 14° 5 | 27°38 | 8°36 | 5°22 | 6°R57 | 7°14 | 5°42 | 27°53 | S 24 |
| M 25 | 16 12 8 | 4°27'08 | 21°39 | 14°29 | 15°38 | 17°11 | 2°46 | 14°13 | 27°36 | 8°38 | 5°23 | 6°57 | 7°10 | 5°49 | 27°56 | M 25 |
| T 26 | 16 16 4 | 5°24'59 | 5♁28 | 14° 7 | 16°51 | 17°42 | 2°51 | 14°20 | 27°35 | 8°40 | 5°24 | 6°57 | 7° 7 | 5°56 | 27°59 | T 26 |
| W 27 | 16 20 1 | 6°22'48 | 19°44 | 13°42 | 18° 4 | 18°14 | 2°56 | 14°28 | 27°33 | 8°41 | 5°24 | 6°57 | 7° 4 | 6° 2 | 28° 2 | W 27 |
| T 28 | 16 23 57 | 7°20'35 | 4♁23 | 13°14 | 19°17 | 18°46 | 3° 2 | 14°36 | 27°31 | 8°43 | 5°25 | 6°D57 | 7° 1 | 6° 9 | 28° 5 | T 28 |
| F 29 | 16 27 54 | 8°18'21 | 19°22 | 12°44 | 20°31 | 19°17 | 3° 7 | 14°43 | 27°29 | 8°45 | 5°26 | 6°57 | 6°58 | 6°16 | 28° 8 | F 29 |
| S 30 | 16 31 50 | 9°16'05 | 4♁32 | 12°11 | 21°44 | 19°49 | 3°12 | 14°51 | 27°27 | 8°47 | 5°27 | 6°R57 | 6°55 | 6°22 | 28°10 | S 30 |
| S 31 | 16 35 47 | 10♁13'49 | 19♁44 | 11♁38 | 22♁57 | 20♁21 | 3♁18 | 14♁59 | 27♁26 | 8♁49 | 5♁28 | 6♁57 | 6♁51 | 6♁29 | 28♁13 | S 31 |

Delta T = 17m46s

JUNE 2561

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|------|-------|--------|------|------|-------|------|------|-------|------|
| M 1 | 16 39 44 | 11♁11'31 | 4♁50 | 11°R 4 | 24♁11 | 20♁53 | 3♁24 | 15♁7 | 27°R24 | 8♁51 | 5♁28 | 6°R56 | 6♁48 | 6♁36 | 28♁16 | M 1 |
| T 2 | 16 43 40 | 12° 9'11 | 19°39 | 10♁29 | 25°24 | 21°25 | 3°30 | 15°14 | 27♁23 | 8°53 | 5°29 | 6♁56 | 6°45 | 6°42 | 28°19 | T 2 |
| W 3 | 16 47 37 | 13° 6'51 | 4♁7 | 9°56 | 26°37 | 21°57 | 3°36 | 15°22 | 27°21 | 8°55 | 5°30 | 6°55 | 6°42 | 6°49 | 28°22 | W 3 |
| T 4 | 16 51 33 | 14° 4'30 | 18° 8 | 9°23 | 27°51 | 22°30 | 3°42 | 15°30 | 27°20 | 8°58 | 5°31 | 6°55 | 6°39 | 6°56 | 28°24 | T 4 |
| F 5 | 16 55 30 | 15° 2'07 | 1♁42 | 8°52 | 29° 4 | 23° 2 | 3°48 | 15°38 | 27°18 | 9° 0 | 5°31 | 6°54 | 6°35 | 7° 2 | 28°27 | F 5 |
| S 6 | 16 59 26 | 15°59'44 | 14°51 | 8°23 | 0♁17 | 23°35 | 3°55 | 15°45 | 27°17 | 9° 2 | 5°32 | 6°D54 | 6°32 | 7° 9 | 28°30 | S 6 |
| S 7 | 17 3 23 | 16°57'20 | 27°36 | 7°56 | 1°31 | 24° 7 | 4° 2 | 15°53 | 27°15 | 9° 4 | 5°33 | 6°54 | 6°29 | 7°16 | 28°32 | S 7 |
| M 8 | 17 7 20 | 17°54'55 | 10♁2 | 7°33 | 2°44 | 24°40 | 4° 8 | 16° 1 | 27°14 | 9° 6 | 5°33 | 6°55 | 6°26 | 7°22 | 28°35 | M 8 |
| T 9 | 17 11 16 | 18°52'29 | 22°13 | 7°13 | 3°58 | 25°13 | 4°15 | 16° 9 | 27°13 | 9° 8 | 5°34 | 6°56 | 6°23 | 7°29 | 28°37 | T 9 |
| W 10 | 17 15 13 | 19°50'02 | 4♁12 | 6°57 | 5°11 | 25°46 | 4°22 | 16°17 | 27°11 | 9°10 | 5°34 | 6°57 | 6°20 | 7°35 | 28°40 | W 10 |
| T 11 | 17 19 9 | 20°47'35 | 16° 3 | 6°45 | 6°24 | 26°19 | 4°29 | 16°24 | 27°10 | 9°12 | 5°35 | 6°58 | 6°16 | 7°42 | 28°42 | T 11 |
| F 12 | 17 23 6 | 21°45'06 | 27°51 | 6°37 | 7°38 | 26°52 | 4°37 | 16°32 | 27° 9 | 9°14 | 5°36 | 6°59 | 6°13 | 7°49 | 28°45 | F 12 |
| S 13 | 17 27 2 | 22°42'37 | 9♁37 | 6°D33 | 8°51 | 27°25 | 4°44 | 16°40 | 27° 8 | 9°17 | 5°36 | 6°R59 | 6°10 | 7°55 | 28°47 | S 13 |
| S 14 | 17 30 59 | 23°40'07 | 21°26 | 6°33 | 10° 5 | 27°58 | 4°52 | 16°48 | 27° 7 | 9°19 | 5°37 | 6°58 | 6° 7 | 8° 2 | 28°49 | S 14 |
| M 15 | 17 34 55 | 24°37'36 | 3♁18 | 6°38 | 11°18 | 28°31 | 4°59 | 16°55 | 27° 6 | 9°21 | 5°37 | 6°57 | 6° 4 | 8° 9 | 28°52 | M 15 |
| T 16 | 17 38 52 | 25°35'04 | 15°16 | 6°48 | 12°31 | 29° 5 | 5° 7 | 17° 3 | 27° 5 | 9°23 | 5°37 | 6°55 | 6° 1 | 8°15 | 28°54 | T 16 |
| W 17 | 17 42 49 | 26°32'31 | 27°22 | 7° 2 | 13°45 | 29°38 | 5°15 | 17°11 | 27° 4 | 9°25 | 5°38 | 6°52 | 5°57 | 8°22 | 28°56 | W 17 |
| T 18 | 17 46 45 | 27°29'57 | 9♁39 | 7°21 | 14°58 | 0♁12 | 5°23 | 17°18 | 27° 3 | 9°27 | 5°38 | 6°49 | 5°54 | 8°29 | 28°58 | T 18 |
| F 19 | 17 50 42 | 28°27'22 | 22° 7 | 7°44 | 16°12 | 0°45 | 5°31 | 17°26 | 27° 2 | 9°30 | 5°39 | 6°46 | 5°51 | 8°35 | 29° 1 | F 19 |
| S 20 | 17 54 38 | 29°24'46 | 4♁50 | 8°11 | 17°25 | 1°19 | 5°40 | 17°34 | 27° 1 | 9°32 | 5°39 | 6°43 | 5°48 | 8°42 | 29° 3 | S 20 |
| S 21 | 17 58 35 | 0♁22'09 | 17°51 | 8°43 | 18°39 | 1°53 | 5°48 | 17°41 | 27° 1 | 9°34 | 5°39 | 6°42 | 5°45 | 8°49 | 29° 5 | S 21 |
| M 22 | 18 2 31 | 1°19'31 | 1♁10 | 9°19 | 19°52 | 2°27 | 5°57 | 17°49 | 27° 0 | 9°36 | 5°40 | 6°D41 | 5°41 | 8°55 | 29° 7 | M 22 |
| T 23 | 18 6 28 | 2°16'52 | 14°51 | 9°59 | 21° 5 | 3° 1 | 6° 5 | 17°57 | 26°59 | 9°39 | 5°40 | 6°42 | 5°38 | 9° 2 | 29° 9 | T 23 |
| W 24 | 18 10 24 | 3°14'12 | 28°54 | 10°43 | 22°19 | 3°35 | 6°14 | 18° 4 | 26°59 | 9°41 | 5°40 | 6°43 | 5°35 | 9° 8 | 29°11 | W 24 |
| T 25 | 18 14 21 | 4°11'31 | 13♁19 | 11°31 | 23°32 | 4° 9 | 6°23 | 18°12 | 26°58 | 9°43 | 5°41 | 6°44 | 5°32 | 9°15 | 29°13 | T 25 |
| F 26 | 18 18 18 | 5° 8'50 | 28° 2 | 12°23 | 24°46 | 4°43 | 6°32 | 18°19 | 26°58 | 9°45 | 5°41 | 6°45 | 5°29 | 9°22 | 29°14 | F 26 |
| S 27 | 18 22 14 | 6° 6'07 | 12♁59 | 13°19 | 25°59 | 5°17 | 6°41 | 18°27 | 26°58 | 9°47 | 5°41 | 6°R45 | 5°26 | 9°28 | 29°16 | S 27 |
| S 28 | 18 26 11 | 7° 3'24 | 28° 3 | 14°19 | 27°13 | 5°52 | 6°50 | 18°34 | 26°57 | 9°50 | 5°41 | 6°44 | 5°22 | 9°35 | 29°18 | S 28 |
| M 29 | 18 30 7 | 8° 0'41 | 13♁5 | 15°22 | 28°26 | 6°26 | 6°59 | 18°42 | 26°57 | 9°52 | 5°41 | 6°41 | 5°19 | 9°42 | 29°20 | M 29 |
| T 30 | 18 34 4 | 8♁57'57 | 27♁57 | 16♁30 | 29♁40 | 7♁0 | 7♁9 | 18♁49 | 26♁57 | 9♁54 | 5♁41 | 6♁37 | 5♁16 | 9♁48 | 29♁21 | T 30 |

Delta T = 17m46s

ASTRODIENST EPHEMERIS for the year 2561
geocentric

JULY 2561

00:00 UT

Table with columns: Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♅, ♁, ♃, ♅, Day. Rows include astronomical data for July 2561.

Delta T = 17m47s

AUGUST 2561

00:00 UT

Table with columns: Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♅, ♁, ♃, ♅, Day. Rows include astronomical data for August 2561.

Delta T = 17m47s

ASTRODIENST EPHEMERIS for the year 2561
geocentric

NOVEMBER 2561

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|--------|-------|-------|-------|------|--------|------|--------|-------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| S 1 | 2 42 57 | 8♁55'50 | 2♃34 | 27♁18 | 2♃44 | 25♁59 | 2♁ 7 | 25°R48 | 1♁55 | 12°R24 | 3°R58 | 28♁ 4 | 28♁42 | 23♁33 | 27°R 0 | S 1 | | | | | | | | |
| M 2 | 2 46 53 | 9°55'34 | 14°47 | 28°58 | 3°59 | 26°41 | 2°19 | 25♁45 | 1°59 | 12°24 | 3°Y57 | 28°R 4 | 28°39 | 23°40 | 26°Y58 | M 2 | | | | | | | | |
| T 3 | 2 50 50 | 10°55'20 | 27°18 | 0♁39 | 5°13 | 27°23 | 2°30 | 25°43 | 2° 3 | 12°23 | 3°56 | 28° 3 | 28°36 | 23°46 | 26°55 | T 3 | | | | | | | | |
| W 4 | 2 54 46 | 11°55'08 | 10♁11 | 2°20 | 6°27 | 28° 5 | 2°42 | 25°40 | 2° 7 | 12°23 | 3°56 | 28° 2 | 28°33 | 23°53 | 26°52 | W 4 | | | | | | | | |
| T 5 | 2 58 43 | 12°54'59 | 23°29 | 4° 1 | 7°41 | 28°47 | 2°53 | 25°37 | 2°10 | 12°22 | 3°55 | 28° 0 | 28°29 | 24° 0 | 26°50 | T 5 | | | | | | | | |
| F 6 | 3 2 39 | 13°54'51 | 7♁13 | 5°41 | 8°55 | 29°29 | 3° 5 | 25°34 | 2°14 | 12°21 | 3°54 | 27°58 | 28°26 | 24° 6 | 26°47 | F 6 | | | | | | | | |
| S 7 | 3 6 36 | 14°54'46 | 21°23 | 7°22 | 10° 9 | 0♁11 | 3°16 | 25°31 | 2°18 | 12°20 | 3°53 | 27°56 | 28°23 | 24°13 | 26°45 | S 7 | | | | | | | | |
| S 8 | 3 10 32 | 15°54'42 | 5♁54 | 9° 2 | 11°24 | 0°53 | 3°27 | 25°28 | 2°22 | 12°20 | 3°52 | 27°55 | 28°20 | 24°20 | 26°42 | S 8 | | | | | | | | |
| M 9 | 3 14 29 | 16°54'41 | 20°42 | 10°43 | 12°38 | 1°36 | 3°38 | 25°25 | 2°25 | 12°19 | 3°51 | 27°D54 | 28°17 | 24°26 | 26°40 | M 9 | | | | | | | | |
| T 10 | 3 18 26 | 17°54'42 | 5♁38 | 12°22 | 13°52 | 2°18 | 3°49 | 25°21 | 2°29 | 12°18 | 3°50 | 27°54 | 28°13 | 24°33 | 26°37 | T 10 | | | | | | | | |
| W11 | 3 22 22 | 18°54'44 | 20°35 | 14° 2 | 15° 6 | 3° 0 | 4° 0 | 25°18 | 2°33 | 12°17 | 3°50 | 27°55 | 28°10 | 24°40 | 26°34 | W11 | | | | | | | | |
| T 12 | 3 26 19 | 19°54'48 | 5♁25 | 15°41 | 16°20 | 3°43 | 4°11 | 25°15 | 2°36 | 12°16 | 3°49 | 27°55 | 28° 7 | 24°46 | 26°32 | T 12 | | | | | | | | |
| F 13 | 3 30 15 | 20°54'54 | 20° 1 | 17°19 | 17°34 | 4°25 | 4°21 | 25°11 | 2°40 | 12°15 | 3°48 | 27°56 | 28° 4 | 24°53 | 26°30 | F 13 | | | | | | | | |
| S 14 | 3 34 12 | 21°55'01 | 4♁20 | 18°58 | 18°48 | 5° 8 | 4°32 | 25° 7 | 2°44 | 12°15 | 3°47 | 27°57 | 28° 1 | 25° 0 | 26°27 | S 14 | | | | | | | | |
| S 15 | 3 38 8 | 22°55'09 | 18°18 | 20°35 | 20° 3 | 5°50 | 4°43 | 25° 4 | 2°47 | 12°14 | 3°47 | 27°R57 | 27°58 | 25° 6 | 26°25 | S 15 | | | | | | | | |
| M16 | 3 42 5 | 23°55'19 | 1♁55 | 22°13 | 21°17 | 6°33 | 4°53 | 25° 0 | 2°51 | 12°13 | 3°46 | 27°57 | 27°54 | 25°13 | 26°22 | M16 | | | | | | | | |
| T 17 | 3 46 2 | 24°55'31 | 15°13 | 23°50 | 22°31 | 7°16 | 5° 3 | 24°56 | 2°55 | 12°12 | 3°45 | 27°57 | 27°51 | 25°20 | 26°20 | T 17 | | | | | | | | |
| W18 | 3 49 58 | 25°55'44 | 28°12 | 25°27 | 23°45 | 7°58 | 5°14 | 24°52 | 2°58 | 12°11 | 3°45 | 27°56 | 27°48 | 25°26 | 26°18 | W18 | | | | | | | | |
| T 19 | 3 53 55 | 26°55'58 | 10°Y55 | 27° 3 | 24°59 | 8°41 | 5°24 | 24°48 | 3° 2 | 12° 9 | 3°44 | 27°56 | 27°45 | 25°33 | 26°15 | T 19 | | | | | | | | |
| F 20 | 3 57 51 | 27°56'14 | 23°24 | 28°39 | 26°13 | 9°24 | 5°34 | 24°44 | 3° 5 | 12° 8 | 3°43 | 27°D56 | 27°42 | 25°40 | 26°13 | F 20 | | | | | | | | |
| S 21 | 4 1 48 | 28°56'31 | 5♁41 | 0♁15 | 27°27 | 10° 7 | 5°44 | 24°40 | 3° 9 | 12° 7 | 3°43 | 27°56 | 27°39 | 25°46 | 26°11 | S 21 | | | | | | | | |
| S 22 | 4 5 44 | 29°56'50 | 17°49 | 1°50 | 28°41 | 10°50 | 5°54 | 24°36 | 3°12 | 12° 6 | 3°42 | 27°56 | 27°35 | 25°53 | 26° 9 | S 22 | | | | | | | | |
| M23 | 4 9 41 | 0♁57'11 | 29°49 | 3°25 | 29°55 | 11°33 | 6° 4 | 24°31 | 3°16 | 12° 5 | 3°41 | 27°R56 | 27°32 | 25°59 | 26° 7 | M23 | | | | | | | | |
| T 24 | 4 13 37 | 1°57'33 | 11♁43 | 5° 0 | 1♁ 9 | 12°16 | 6°14 | 24°27 | 3°19 | 12° 4 | 3°41 | 27°56 | 27°29 | 26° 6 | 26° 5 | T 24 | | | | | | | | |
| W25 | 4 17 34 | 2°57'57 | 23°33 | 6°34 | 2°23 | 12°59 | 6°23 | 24°23 | 3°23 | 12° 3 | 3°40 | 27°56 | 27°26 | 26°13 | 26° 3 | W25 | | | | | | | | |
| T 26 | 4 21 31 | 3°58'23 | 5♁21 | 8° 9 | 3°37 | 13°42 | 6°33 | 24°18 | 3°26 | 12° 1 | 3°40 | 27°55 | 27°23 | 26°19 | 26° 1 | T 26 | | | | | | | | |
| F 27 | 4 25 27 | 4°58'50 | 17°11 | 9°43 | 4°51 | 14°26 | 6°42 | 24°14 | 3°29 | 12° 0 | 3°39 | 27°54 | 27°19 | 26°26 | 25°59 | F 27 | | | | | | | | |
| S 28 | 4 29 24 | 5°59'19 | 29° 4 | 11°16 | 6° 5 | 15° 9 | 6°52 | 24° 9 | 3°33 | 11°59 | 3°39 | 27°53 | 27°16 | 26°33 | 25°57 | S 28 | | | | | | | | |
| S 29 | 4 33 20 | 6°59'50 | 11♁ 4 | 12°50 | 7°18 | 15°52 | 7° 1 | 24° 5 | 3°36 | 11°57 | 3°39 | 27°52 | 27°13 | 26°39 | 25°55 | S 29 | | | | | | | | |
| M30 | 4 37 17 | 8♁ 0'22 | 23♁16 | 14♁23 | 8♁32 | 16♁36 | 7♁10 | 24♁ 0 | 3♁39 | 11♁56 | 3♁38 | 27♁51 | 27♁10 | 26♁46 | 25♁53 | M30 | | | | | | | | |

Delta T = 17m48s

DECEMBER 2561

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|------|--------|-------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| T 1 | 4 41 13 | 9♁ 0'56 | 5♁43 | 15♁57 | 9♁46 | 17♁19 | 7♁19 | 23°R56 | 3♁43 | 11°R55 | 3°R38 | 27°D51 | 27♁ 7 | 26♁53 | 25°R51 | T 1 | | | | | | | | |
| W 2 | 4 45 10 | 10° 1'32 | 18°30 | 17°30 | 11° 0 | 18° 3 | 7°28 | 23♁51 | 3°46 | 11°55 | 3°Y37 | 27♁51 | 27° 4 | 26°59 | 25°Y49 | W 2 | | | | | | | | |
| T 3 | 4 49 6 | 11° 2'10 | 1♁39 | 19° 3 | 12°14 | 18°46 | 7°37 | 23°46 | 3°49 | 11°52 | 3°37 | 27°51 | 27° 0 | 26°59 | 25°47 | T 3 | | | | | | | | |
| F 4 | 4 53 3 | 12° 2'49 | 15°15 | 20°35 | 13°28 | 19°30 | 7°45 | 23°41 | 3°52 | 11°51 | 3°37 | 27°53 | 26°57 | 27°13 | 25°46 | F 4 | | | | | | | | |
| S 5 | 4 57 0 | 13° 3'30 | 29°18 | 22° 8 | 14°42 | 20°14 | 7°54 | 23°37 | 3°55 | 11°49 | 3°36 | 27°54 | 26°54 | 27°19 | 25°44 | S 5 | | | | | | | | |
| S 6 | 5 0 56 | 14° 4'12 | 13♁47 | 23°40 | 15°55 | 20°58 | 8° 2 | 23°32 | 3°59 | 11°48 | 3°36 | 27°55 | 26°51 | 27°26 | 25°42 | S 6 | | | | | | | | |
| M 7 | 5 4 53 | 15° 4'56 | 28°39 | 25°13 | 17° 9 | 21°41 | 8°11 | 23°27 | 4° 2 | 11°46 | 3°36 | 27°R55 | 26°48 | 27°33 | 25°41 | M 7 | | | | | | | | |
| T 8 | 5 8 49 | 16° 5'41 | 13♁46 | 26°45 | 18°23 | 22°25 | 8°19 | 23°22 | 4° 5 | 11°45 | 3°36 | 27°55 | 26°45 | 27°39 | 25°39 | T 8 | | | | | | | | |
| W 9 | 5 12 46 | 17° 6'28 | 29° 0 | 28°17 | 19°37 | 23° 9 | 8°27 | 23°17 | 4° 8 | 11°43 | 3°35 | 27°53 | 26°41 | 27°46 | 25°38 | W 9 | | | | | | | | |
| T 10 | 5 16 42 | 18° 7'16 | 14♁11 | 29°49 | 20°50 | 23°53 | 8°35 | 23°12 | 4°11 | 11°42 | 3°35 | 27°51 | 26°38 | 27°53 | 25°36 | T 10 | | | | | | | | |
| F 11 | 5 20 39 | 19° 8'05 | 29° 8 | 1♁21 | 22° 4 | 24°37 | 8°43 | 23° 7 | 4°14 | 11°40 | 3°35 | 27°48 | 26°35 | 27°59 | 25°35 | F 11 | | | | | | | | |
| S 12 | 5 24 35 | 20° 8'54 | 13♁46 | 2°52 | 23°18 | 25°21 | 8°50 | 23° 3 | 4°17 | 11°39 | 3°35 | 27°45 | 26°32 | 28° 6 | 25°34 | S 12 | | | | | | | | |
| S 13 | 5 28 32 | 21° 9'45 | 27°57 | 4°23 | 24°31 | 26° 5 | 8°58 | 22°58 | 4°20 | 11°37 | 3°35 | 27°42 | 26°29 | 28°13 | 25°32 | S 13 | | | | | | | | |
| M14 | 5 32 29 | 22°10'36 | 11♁42 | 5°55 | 25°45 | 26°50 | 9° 5 | 22°53 | 4°23 | 11°36 | 3°35 | 27°41 | 26°25 | 28°19 | 25°31 | M14 | | | | | | | | |
| T 15 | 5 36 25 | 23°11'28 | 25° 0 | 7°25 | 26°59 | 27°34 | 9°12 | 22°48 | 4°25 | 11°34 | 3°35 | 27°D40 | 26°22 | 28°26 | 25°30 | T 15 | | | | | | | | |
| W16 | 5 40 22 | 24°12'21 | 7°Y54 | 8°56 | 28°12 | 28°18 | 9°20 | 22°43 | 4°28 | 11°32 | 3°35 | 27°41 | 26°19 | 28°33 | 25°29 | W16 | | | | | | | | |
| T 17 | 5 44 18 | 25°13'14 | 20°27 | 10°26 | 29°26 | 29° 3 | 9°27 | 22°38 | 4°31 | 11°31 | 3°D34 | 27°43 | 26°16 | 28°39 | 25°28 | T 17 | | | | | | | | |
| F 18 | 5 48 15 | 26°14'08 | 2♁45 | 11°56 | 0♁39 | 29°47 | 9°33 | 22°33 | 4°34 | 11°29 | 3°34 | 27°44 | 26°13 | 28°46 | 25°27 | F 18 | | | | | | | | |
| S 19 | 5 52 11 | 27°15'03 | 14°50 | 13°25 | 1°53 | 0♁31 | 9°40 | 22°28 | 4°36 | 11°27 | 3°35 | 27°46 | 26°10 | 28°53 | 25°26 | S 19 | | | | | | | | |
| S 20 | 5 56 8 | 28°15'59 | 26°47 | 14°53 | 3° 6 | 1°16 | 9°47 | 22°23 | 4°39 | 11°26 | 3°35 | 27°R47 | 26° 6 | 28°59 | 25°25 | S 20 | | | | | | | | |
| M21 | 6 0 4 | 29°16'55 | 8♁39 | 16°21 | 4°20 | 2° 0 | 9°53 | 22°18 | 4°41 | 11°24 | 3°35 | 27°46 | 26° 3 | 29° 6 | 25°24 | M21 | | | | | | | | |
| T 22 | 6 4 1 | 0♁17'53 | 20°28 | 17°47 | 5°33 | 2°45 | 9°59 | 22°13 | 4°44 | 11°23 | 3°35 | 27°44 | 26° 0 | 29°13 | 25°23 | T 22 | | | | | | | | |
| W23 | 6 7 58 | 1°18'51 | 2♁17 | 19°13 | 6°46 | 3°30 | 10° 5 | 22° 9 | 4°47 | 11°21 | 3°35 | 27°40 | 25°57 | 29°19 | 25°22 | W23 | | | | | | | | |
| T 24 | 6 11 54 | 2°19'49 | 14° 8 | 20°37 | 7°59 | 4°14 | 10°11 | 22° 4 | 4°49 | 11°19 | 3°35 | 27°34 | 25°54 | 29°26 | 25°22 | T 24 | | | | | | | | |
| F 25 | 6 15 51 | 3°20'49 | 26° 2 | 22° 0 | 9°13 | 4°59 | 10°17 | 21°59 | 4°51 | 11°18 | 3°35 | 27°28 | 25°51 | 29°33 | 25°21 | F 25 | | | | | | | | |
| S 26 | 6 19 47 | 4°21'49 | 8♁ 1 | 23°21 | 10°26 | 5°44 | 10°23 | 21°54 | 4°54 | 11°16 | 3°35 | 27°20 | 25°47 | 29°39 | 25°20 | S 26 | | | | | | | | |
| S 27 | 6 23 44 | 5°22'50 | 20° 7 | 24°40 | 11°39 | 6°29 | 10°28 | 21°49 | 4°56 | 11°14 | 3°36 | 27°13 | 25°44 | 29°46 | 25°20 | S 27 | | | | | | | | |
| M28 | 6 27 40 | 6°23'52 | 2♁23 | 25°56 | 12°52 | 7°14 | 10°34 | 21°45 | 4°58 | 11°12 | 3°36 | 27° 8 | 25°41 | 29°53 | 25°19 | M28 | | | | | | | | |
| T 29 | 6 31 37 | 7°24'55 | 14°51 | 27° 9 | 14° 5 | 7°59 | 10°39 | 21°40 | 5° 1 | 11°11 | 3°36 | 27° 3 | 25°38 | 29°59 | 25°19 | T 29 | | | | | | | | |
| W30 | 6 35 34 | 8°25'58 | 27°35 | 28°19 | 15°18 | 8°44 | 10°44 | 21°35 | 5° 3 | 11° 9 | 3°36 | 27° 1 | 25°35 | 0♁ 6 | 25°18 | W30 | | | | | | | | |
| T 31 | 6 39 30 | 9♁27'02 | 10♁37 | 29♁25 | 16♁31 | 9♁29 | 10♁49 | 21♁31 | 5♁ 5 | 11♁ 7 | 3♁37 | 27°D 0 | 25♁31 | 0♁13 | 25♁18 | T 31 | | | | | | | | |

Delta T = 17m48s

ASTRODIENST EPHEMERIS for the year 2562
geocentric

JANUARY 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|---------------------|--------------------|---------------------|--------------------|-----------------------|-----------------------|--------------------|---------------------|------|---|---|---|---|---|---|---|-----|
| F 1 | 6 43 27 | 10 ²⁸ 07 | 24 ⁰¹ 1 | 0 ²⁶ 26 | 17 ⁴⁴ 44 | 10 ¹⁴ 14 | 10 ⁵³ 53 | 21 ²⁶ 26 | 5 ⁰⁷ 07 | 11 ⁰⁶ 06 | 3 ³⁷ 37 | 27 ⁰⁸ 08 | 25 ²⁸ 28 | 0 ²⁰ 20 | 25 ¹⁸ 18 | F 1 | | | | | | | | |
| S 2 | 6 47 23 | 11 ²⁹ 13 | 7 ⁵⁰ 50 | 1 ²² 22 | 18 ⁵⁷ 57 | 10 ⁵⁹ 59 | 10 ⁵⁸ 58 | 21 ²² 22 | 5 ⁰⁹ 09 | 11 ⁰⁴ 04 | 3 ³⁷ 37 | 27 ⁰² 02 | 25 ²⁵ 25 | 0 ²⁶ 26 | 25 ¹⁸ 18 | S 2 | | | | | | | | |
| S 3 | 6 51 20 | 12 ³⁰ 19 | 22 ⁰⁵ 5 | 2 ¹² 12 | 20 ¹⁰ 10 | 11 ⁴⁴ 44 | 11 ⁰² 02 | 21 ¹⁷ 17 | 5 ¹¹ 11 | 11 ⁰² 02 | 3 ³⁸ 38 | 27 ⁰³ 03 | 25 ²² 22 | 0 ³³ 33 | 25 ¹⁷ 17 | S 3 | | | | | | | | |
| M 4 | 6 55 16 | 13 ³¹ 26 | 6 ⁴⁴ 44 | 2 ⁵⁵ 55 | 21 ²² 22 | 12 ²⁹ 29 | 11 ⁰⁶ 06 | 21 ¹³ 13 | 5 ¹³ 13 | 11 ⁰¹ 01 | 3 ³⁸ 38 | 27 ⁰³ 03 | 25 ¹⁹ 19 | 0 ⁴⁰ 40 | 25 ¹⁷ 17 | M 4 | | | | | | | | |
| T 5 | 6 59 13 | 14 ³² 34 | 21 ⁴³ 43 | 3 ³⁰ 30 | 22 ³⁵ 35 | 13 ¹⁵ 15 | 11 ¹⁰ 10 | 21 ⁰⁹ 09 | 5 ¹⁵ 15 | 10 ⁵⁹ 59 | 3 ³⁹ 39 | 27 ⁰⁰ 00 | 25 ¹⁶ 16 | 0 ⁴⁶ 46 | 25 ¹⁷ 17 | T 5 | | | | | | | | |
| W 6 | 7 3 9 | 15 ³³ 42 | 6 ³⁵ 35 | 3 ⁵⁷ 57 | 23 ⁴⁸ 48 | 14 ⁰⁰ 00 | 11 ¹⁴ 14 | 21 ⁰⁴ 04 | 5 ¹⁷ 17 | 10 ⁵⁷ 57 | 3 ³⁹ 39 | 26 ⁵⁶ 56 | 25 ¹² 12 | 0 ⁵³ 53 | 25 ¹⁷ 17 | W 6 | | | | | | | | |
| T 7 | 7 7 6 | 16 ³⁴ 51 | 22 ¹⁰ 10 | 4 ¹⁴ 14 | 25 ⁰⁰ 00 | 14 ⁴⁵ 45 | 11 ¹⁸ 18 | 21 ⁰⁰ 00 | 5 ¹⁹ 19 | 10 ⁵⁶ 56 | 3 ⁴⁰ 40 | 26 ⁴⁹ 49 | 25 ⁰⁹ 09 | 1 ⁰⁰ 00 | 25 ¹⁷ 17 | T 7 | | | | | | | | |
| F 8 | 7 11 3 | 17 ³⁶ 00 | 7 ¹⁸ 18 | 4 ^{R20} 20 | 26 ¹³ 13 | 15 ³¹ 31 | 11 ²¹ 21 | 20 ⁵⁶ 56 | 5 ²¹ 21 | 10 ⁵⁴ 54 | 3 ⁴⁰ 40 | 26 ⁴¹ 41 | 25 ⁰⁶ 06 | 1 ⁰⁶ 06 | 25 ¹⁸ 18 | F 8 | | | | | | | | |
| S 9 | 7 14 59 | 18 ³⁷ 08 | 22 ⁰⁹ 9 | 4 ¹⁵ 15 | 27 ²⁵ 25 | 16 ¹⁶ 16 | 11 ²⁴ 24 | 20 ⁵² 52 | 5 ²² 22 | 10 ⁵² 52 | 3 ⁴¹ 41 | 26 ³³ 33 | 25 ⁰³ 03 | 1 ¹³ 13 | 25 ¹⁸ 18 | S 9 | | | | | | | | |
| S 10 | 7 18 56 | 19 ³⁸ 17 | 6 ³⁴ 34 | 3 ⁵⁹ 59 | 28 ³⁸ 38 | 17 ⁰² 02 | 11 ²⁸ 28 | 20 ⁴⁸ 48 | 5 ²⁴ 24 | 10 ⁵⁰ 50 | 3 ⁴¹ 41 | 26 ²⁵ 25 | 25 ⁰⁰ 00 | 1 ²⁰ 20 | 25 ¹⁸ 18 | S 10 | | | | | | | | |
| M 11 | 7 22 52 | 20 ³⁹ 25 | 20 ³⁰ 30 | 3 ³¹ 31 | 29 ⁵⁰ 50 | 17 ⁴⁷ 47 | 11 ³⁰ 30 | 20 ⁴⁴ 44 | 5 ²⁶ 26 | 10 ⁴⁹ 49 | 3 ⁴² 42 | 26 ¹⁹ 19 | 24 ⁵⁷ 57 | 1 ²⁶ 26 | 25 ¹⁸ 18 | M 11 | | | | | | | | |
| T 12 | 7 26 49 | 21 ⁴⁰ 34 | 3 ⁵⁶ 56 | 2 ⁵⁰ 50 | 1 ³⁰ 30 | 18 ³³ 33 | 11 ³³ 33 | 20 ⁴⁰ 40 | 5 ²⁷ 27 | 10 ⁴⁷ 47 | 3 ⁴² 42 | 26 ¹⁵ 15 | 24 ⁵³ 53 | 1 ³³ 33 | 25 ¹⁹ 19 | T 12 | | | | | | | | |
| W 13 | 7 30 45 | 22 ⁴¹ 42 | 16 ⁵⁴ 54 | 1 ⁵⁹ 59 | 2 ¹⁵ 15 | 19 ¹⁹ 19 | 11 ³⁶ 36 | 20 ³⁶ 36 | 5 ²⁹ 29 | 10 ⁴⁵ 45 | 3 ⁴³ 43 | 26 ¹³ 13 | 24 ⁵⁰ 50 | 1 ⁴⁰ 40 | 25 ¹⁹ 19 | W 13 | | | | | | | | |
| T 14 | 7 34 42 | 23 ⁴² 49 | 29 ²⁷ 27 | 0 ⁵⁸ 58 | 3 ²⁷ 27 | 20 ⁰⁴ 04 | 11 ³⁸ 38 | 20 ³³ 33 | 5 ³⁰ 30 | 10 ⁴⁴ 44 | 3 ⁴⁴ 44 | 26 ^{D13} D13 | 24 ⁴⁷ 47 | 1 ⁴⁶ 46 | 25 ¹⁹ 19 | T 14 | | | | | | | | |
| F 15 | 7 38 38 | 24 ⁴³ 57 | 11 ⁰⁴ 04 | 29 ³⁴ 34 | 4 ³⁹ 39 | 20 ⁵⁰ 50 | 11 ⁴⁰ 40 | 20 ²⁹ 29 | 5 ³¹ 31 | 10 ⁴² 42 | 3 ⁴⁴ 44 | 26 ¹⁴ 14 | 24 ⁴⁴ 44 | 1 ⁵³ 53 | 25 ²⁰ 20 | F 15 | | | | | | | | |
| S 16 | 7 42 35 | 25 ⁴⁵ 04 | 23 ⁴³ 43 | 28 ³³ 33 | 5 ⁵¹ 51 | 21 ³⁶ 36 | 11 ⁴² 42 | 20 ²⁶ 26 | 5 ³³ 33 | 10 ⁴¹ 41 | 3 ⁴⁵ 45 | 26 ^{R15} R15 | 24 ⁴¹ 41 | 2 ⁰⁰ 00 | 25 ²⁰ 20 | S 16 | | | | | | | | |
| S 17 | 7 46 32 | 26 ⁴⁶ 10 | 5 ³⁵ 35 | 27 ¹⁴ 14 | 7 ⁰² 02 | 22 ²¹ 21 | 11 ⁴⁴ 44 | 20 ²² 22 | 5 ³⁴ 34 | 10 ³⁹ 39 | 3 ⁴⁶ 46 | 26 ¹⁴ 14 | 24 ³⁷ 37 | 2 ⁰⁶ 06 | 25 ²¹ 21 | S 17 | | | | | | | | |
| M 18 | 7 50 28 | 27 ⁴⁷ 17 | 17 ²³ 23 | 25 ⁵⁴ 54 | 8 ¹⁴ 14 | 23 ⁰⁷ 07 | 11 ⁴⁶ 46 | 20 ¹⁹ 19 | 5 ³⁵ 35 | 10 ³⁷ 37 | 3 ⁴⁶ 46 | 26 ¹² 12 | 24 ³⁴ 34 | 2 ¹³ 13 | 25 ²² 22 | M 18 | | | | | | | | |
| T 19 | 7 54 25 | 28 ⁴⁸ 23 | 29 ¹¹ 11 | 24 ³⁴ 34 | 9 ²⁶ 26 | 23 ⁵³ 53 | 11 ⁴⁷ 47 | 20 ¹⁵ 15 | 5 ³⁷ 37 | 10 ³⁶ 36 | 3 ⁴⁷ 47 | 26 ⁰⁷ 07 | 24 ³¹ 31 | 2 ²⁰ 20 | 25 ²³ 23 | T 19 | | | | | | | | |
| W 20 | 7 58 21 | 29 ⁴⁹ 29 | 11 ⁰¹ 01 | 23 ¹⁹ 19 | 10 ³⁷ 37 | 24 ³⁹ 39 | 11 ⁴⁸ 48 | 20 ¹² 12 | 5 ³⁸ 38 | 10 ³⁴ 34 | 3 ⁴⁸ 48 | 25 ⁵⁹ 59 | 24 ²⁸ 28 | 2 ²⁶ 26 | 25 ²³ 23 | W 20 | | | | | | | | |
| T 21 | 8 2 18 | 0 ⁵⁰ 34 | 22 ⁵⁷ 57 | 22 ¹⁰ 10 | 11 ⁴⁹ 49 | 25 ²⁵ 25 | 11 ⁵⁰ 50 | 20 ⁰⁹ 09 | 5 ³⁹ 39 | 10 ³³ 33 | 3 ⁴⁹ 49 | 25 ⁴⁸ 48 | 24 ²⁵ 25 | 2 ³³ 33 | 25 ²⁴ 24 | T 21 | | | | | | | | |
| F 22 | 8 6 14 | 1 ⁵¹ 39 | 4 ⁰⁵ 05 | 21 ⁰⁷ 07 | 13 ⁰⁰ 00 | 26 ¹¹ 11 | 11 ⁵⁰ 50 | 20 ⁰⁶ 06 | 5 ⁴⁰ 40 | 10 ³¹ 31 | 3 ⁵⁰ 50 | 25 ³⁶ 36 | 24 ²² 22 | 2 ⁴⁰ 40 | 25 ²⁵ 25 | F 22 | | | | | | | | |
| S 23 | 8 10 11 | 2 ⁵² 44 | 17 ⁰⁹ 09 | 20 ¹⁴ 14 | 14 ¹¹ 11 | 26 ⁵⁷ 57 | 11 ⁵¹ 51 | 20 ⁰³ 03 | 5 ⁴¹ 41 | 10 ²⁹ 29 | 3 ⁵⁰ 50 | 25 ²³ 23 | 24 ¹⁸ 18 | 2 ⁴⁶ 46 | 25 ²⁶ 26 | S 23 | | | | | | | | |
| S 24 | 8 14 7 | 3 ⁵³ 48 | 29 ²⁷ 27 | 19 ³⁰ 30 | 15 ²³ 23 | 27 ⁴³ 43 | 11 ⁵² 52 | 20 ⁰⁰ 00 | 5 ⁴² 42 | 10 ²⁸ 28 | 3 ⁵¹ 51 | 25 ¹⁰ 10 | 24 ¹⁵ 15 | 2 ⁵³ 53 | 25 ²⁷ 27 | S 24 | | | | | | | | |
| M 25 | 8 18 4 | 4 ⁵⁴ 52 | 11 ⁰⁵ 05 | 18 ⁵⁵ 55 | 16 ³⁴ 34 | 28 ²⁹ 29 | 11 ⁵² 52 | 19 ⁵⁷ 57 | 5 ⁴² 42 | 10 ²⁶ 26 | 3 ⁵² 52 | 24 ⁵⁸ 58 | 24 ¹² 12 | 3 ⁰⁰ 00 | 25 ²⁸ 28 | M 25 | | | | | | | | |
| T 26 | 8 22 1 | 5 ⁵⁵ 55 | 24 ³³ 33 | 18 ³⁰ 30 | 17 ⁴⁵ 45 | 29 ¹⁵ 15 | 11 ^{R52} R52 | 19 ⁵⁵ 55 | 5 ⁴³ 43 | 10 ²⁵ 25 | 3 ⁵³ 53 | 24 ⁴⁹ 49 | 24 ⁰⁹ 09 | 3 ⁰⁶ 06 | 25 ²⁹ 29 | T 26 | | | | | | | | |
| W 27 | 8 25 57 | 6 ⁵⁶ 59 | 7 ⁰⁴ 04 | 18 ¹⁴ 14 | 18 ⁵⁵ 55 | 0 ⁰⁰ 00 | 11 ⁵² 52 | 19 ⁵² 52 | 5 ⁴⁴ 44 | 10 ²³ 23 | 3 ⁵⁴ 54 | 24 ⁴³ 43 | 24 ⁰⁶ 06 | 3 ¹³ 13 | 25 ³⁰ 30 | W 27 | | | | | | | | |
| T 28 | 8 29 54 | 7 ⁵⁸ 02 | 20 ²⁸ 28 | 18 ^{D8} D8 | 20 ⁰⁶ 06 | 0 ⁴⁸ 48 | 11 ⁵² 52 | 19 ⁵⁰ 50 | 5 ⁴⁵ 45 | 10 ²² 22 | 3 ⁵⁵ 55 | 24 ³⁹ 39 | 24 ⁰³ 03 | 3 ²⁰ 20 | 25 ³² 32 | T 28 | | | | | | | | |
| F 29 | 8 33 50 | 8 ⁵⁹ 05 | 3 ⁰⁰ 00 | 18 ⁰⁹ 09 | 21 ¹⁷ 17 | 1 ³⁴ 34 | 11 ⁵¹ 51 | 19 ⁴⁷ 47 | 5 ⁴⁵ 45 | 10 ²⁰ 20 | 3 ⁵⁶ 56 | 24 ^{D38} D38 | 23 ⁵⁹ 59 | 3 ²⁶ 26 | 25 ³³ 33 | F 29 | | | | | | | | |
| S 30 | 8 37 47 | 10 ⁰⁰ 07 | 17 ²⁷ 27 | 18 ¹⁹ 19 | 22 ²⁷ 27 | 2 ²⁰ 20 | 11 ⁵¹ 51 | 19 ⁴⁵ 45 | 5 ⁴⁶ 46 | 10 ¹⁹ 19 | 3 ⁵⁷ 57 | 24 ^{R38} R38 | 23 ⁵⁶ 56 | 3 ³³ 33 | 25 ³⁴ 34 | S 30 | | | | | | | | |
| S 31 | 8 41 43 | 11 ⁰¹ 10 | 1 ²⁶ 26 | 18 ³⁶ 36 | 23 ³⁷ 37 | 3 ⁰⁰ 00 | 11 ⁵⁰ 50 | 19 ⁴³ 43 | 5 ⁰⁰ 00 | 10 ¹⁸ 18 | 3 ⁵⁸ 58 | 24 ^{B38} B38 | 23 ^{B53} B53 | 3 ⁴⁰ 40 | 25 ³⁵ 35 | S 31 | | | | | | | | |

Delta T = 17m48s

FEBRUARY 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|----------------------|-----------------------|--------------------|-----------------------|-----------------------|--------------------|---------------------|-----|---|---|---|---|---|---|---|-----|
| M 1 | 8 45 40 | 12 ⁰¹ 12 | 15 ⁴⁶ 46 | 18 ³⁹ 39 | 24 ⁴⁸ 48 | 3 ⁵³ 53 | 11 ^{R49} R49 | 19 ^{R41} R41 | 5 ⁰⁷ 07 | 10 ^{R16} R16 | 3 ⁵⁹ 59 | 24 ^{R37} R37 | 23 ^{B50} B50 | 3 ⁴⁶ 46 | 25 ³⁷ 37 | M 1 | | | | | | | | |
| T 2 | 8 49 36 | 13 ⁰³ 13 | 0 ³⁴ 34 | 19 ²⁹ 29 | 25 ⁵⁸ 58 | 4 ³⁹ 39 | 11 ⁴⁷ 47 | 19 ³⁷ 37 | 5 ⁰⁷ 07 | 10 ¹⁵ 15 | 4 ⁰⁰ 00 | 24 ^{B33} B33 | 23 ⁴⁷ 47 | 3 ⁵³ 53 | 25 ³⁸ 38 | T 2 | | | | | | | | |
| W 3 | 8 53 33 | 14 ⁰⁴ 14 | 15 ¹⁷ 17 | 20 ⁰⁴ 04 | 27 ⁰⁸ 08 | 5 ²⁶ 26 | 11 ⁴⁶ 46 | 19 ³⁷ 37 | 5 ⁰⁸ 08 | 10 ¹³ 13 | 4 ⁰¹ 01 | 24 ²⁶ 26 | 23 ⁴³ 43 | 4 ⁰⁰ 00 | 25 ⁴⁰ 40 | W 3 | | | | | | | | |
| T 4 | 8 57 30 | 15 ⁰⁵ 15 | 0 ¹⁸ 18 | 20 ⁴⁴ 44 | 28 ¹⁷ 17 | 6 ¹² 12 | 11 ⁴⁴ 44 | 19 ³⁵ 35 | 5 ⁰⁸ 08 | 10 ¹² 12 | 4 ⁰² 02 | 24 ¹⁶ 16 | 23 ⁴⁰ 40 | 4 ⁰⁶ 06 | 25 ⁴¹ 41 | T 4 | | | | | | | | |
| F 5 | 9 1 26 | 16 ⁰⁶ 16 | 15 ¹⁶ 16 | 21 ²⁹ 29 | 29 ²⁷ 27 | 6 ⁵⁹ 59 | 11 ⁴³ 43 | 19 ³⁴ 34 | 5 ⁰⁸ 08 | 10 ¹¹ 11 | 4 ⁰³ 03 | 24 ⁰⁵ 05 | 23 ³⁷ 37 | 4 ¹³ 13 | 25 ⁴³ 43 | F 5 | | | | | | | | |
| S 6 | 9 5 23 | 17 ⁰⁷ 13 | 0 ³⁰ 30 | 22 ¹⁸ 18 | 0 ³⁷ 37 | 7 ⁴⁵ 45 | 11 ⁴¹ 41 | 19 ³² 32 | 5 ⁰⁸ 08 | 10 ⁰⁹ 09 | 4 ⁰⁴ 04 | 23 ⁵³ 53 | 23 ³⁴ 34 | 4 ²⁰ 20 | 25 ⁴⁵ 45 | S 6 | | | | | | | | |
| S 7 | 9 9 19 | 18 ⁰⁸ 11 | 14 ²⁹ 29 | 23 ¹⁰ 10 | 1 ⁴⁶ 46 | 8 ³² 32 | 11 ³⁸ 38 | 19 ³¹ 31 | 5 ⁰⁹ 09 | 10 ⁰⁸ 08 | 4 ⁰⁵ 05 | 23 ⁴¹ 41 | 23 ³¹ 31 | 4 ²⁶ 26 | 25 ⁴⁶ 46 | S 7 | | | | | | | | |
| M 8 | 9 13 16 | 19 ⁰⁹ 08 | 28 ³⁰ 30 | 24 ⁰⁶ 06 | 2 ⁵⁵ 55 | 9 ¹⁸ 18 | 11 ³⁶ 36 | 19 ²⁹ 29 | 5 ⁰⁹ 09 | 10 ⁰⁷ 07 | 4 ⁰⁶ 06 | 23 ³² 32 | 23 ²⁸ 28 | 4 ³³ 33 | 25 ⁴⁸ 48 | M 8 | | | | | | | | |
| T 9 | 9 17 12 | 20 ¹⁰ 04 | 12 ⁰² 02 | 25 ⁰⁵ 05 | 4 ⁰⁴ 04 | 10 ⁰⁵ 05 | 11 ³³ 33 | 19 ²⁸ 28 | 5 ^{R49} R49 | 10 ⁰⁶ 06 | 4 ⁰⁸ 08 | 23 ²⁵ 25 | 23 ²⁴ 24 | 4 ⁴⁰ 40 | 25 ⁵⁰ 50 | T 9 | | | | | | | | |
| W 10 | 9 21 9 | 21 ¹⁰ 58 | 25 ⁰⁶ 06 | 26 ⁰⁶ 06 | 5 ¹³ 13 | 10 ⁵¹ 51 | 11 ³¹ 31 | 19 ²⁷ 27 | 5 ⁰⁹ 09 | 10 ⁰⁵ 05 | 4 ⁰⁹ 09 | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2562
geocentric

MARCH 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|---------|-------|-------|------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| M 1 | 10 36 3 | 10♋24'00 | 25♌59 | 21♍9 | 26♎22 | 25♏42 | 10°R 6 | 19♐28 | 5°R37 | 9°R47 | 4♑34 | 21°R32 | 22♒21 | 6♓53 | 26♎36 | M 1 | | | | | | | | |
| T 2 | 10 40 0 | 11°24'29 | 10♋18 | 22°40 | 27°26 | 26°29 | 10♐0 | 19°29 | 5♑36 | 9♑46 | 4°35 | 21♒29 | 22°18 | 7°0 | 26°38 | T 2 | | | | | | | | |
| W 3 | 10 43 57 | 12°24'56 | 24°47 | 24°12 | 28°30 | 27°16 | 9°54 | 19°30 | 5°35 | 9°46 | 4°36 | 21°23 | 22°15 | 7°7 | 26°41 | W 3 | | | | | | | | |
| T 4 | 10 47 53 | 13°25'22 | 9♌21 | 25°45 | 29°34 | 28°3 | 9°48 | 19°32 | 5°34 | 9°45 | 4°38 | 21°15 | 22°11 | 7°14 | 26°44 | T 4 | | | | | | | | |
| F 5 | 10 51 50 | 14°25'46 | 23°54 | 27°19 | 0♌37 | 28°50 | 9°42 | 19°33 | 5°33 | 9°44 | 4°39 | 21°5 | 22°8 | 7°20 | 26°47 | F 5 | | | | | | | | |
| S 6 | 10 55 46 | 15°26'09 | 8♌19 | 28°54 | 1°40 | 29°37 | 9°35 | 19°35 | 5°31 | 9°44 | 4°41 | 20°54 | 22°5 | 7°27 | 26°49 | S 6 | | | | | | | | |
| S 7 | 10 59 43 | 16°26'31 | 22°30 | 0♌31 | 2°43 | 0♌24 | 9°29 | 19°36 | 5°30 | 9°43 | 4°42 | 20°44 | 22°2 | 7°34 | 26°52 | S 7 | | | | | | | | |
| M 8 | 11 3 39 | 17°26'50 | 6♌21 | 2°8 | 3°45 | 1°11 | 9°22 | 19°38 | 5°29 | 9°43 | 4°44 | 20°35 | 21°59 | 7°40 | 26°55 | M 8 | | | | | | | | |
| T 9 | 11 7 36 | 18°27'08 | 19°49 | 3°46 | 4°47 | 1°58 | 9°15 | 19°40 | 5°27 | 9°43 | 4°45 | 20°28 | 21°55 | 7°47 | 26°58 | T 9 | | | | | | | | |
| W10 | 11 11 32 | 19°27'24 | 2♌53 | 5°25 | 5°48 | 2°45 | 9°8 | 19°42 | 5°26 | 9°42 | 4°47 | 20°24 | 21°52 | 7°54 | 27°1 | W10 | | | | | | | | |
| T 11 | 11 15 29 | 20°27'38 | 15°33 | 7°5 | 6°50 | 3°32 | 9°1 | 19°44 | 5°24 | 9°42 | 4°48 | 20°D23 | 21°49 | 8°0 | 27°4 | T 11 | | | | | | | | |
| F 12 | 11 19 26 | 21°27'50 | 27°54 | 8°46 | 7°50 | 4°20 | 8°54 | 19°47 | 5°23 | 9°42 | 4°50 | 20°23 | 21°46 | 8°7 | 27°7 | F 12 | | | | | | | | |
| S 13 | 11 23 22 | 22°28'00 | 10♐0 | 10°28 | 8°51 | 5°7 | 8°47 | 19°49 | 5°21 | 9°41 | 4°51 | 20°24 | 21°43 | 8°14 | 27°10 | S 13 | | | | | | | | |
| S 14 | 11 27 19 | 23°28'08 | 21°55 | 12°12 | 9°51 | 5°54 | 8°40 | 19°52 | 5°19 | 9°41 | 4°53 | 20°R24 | 21°40 | 8°20 | 27°13 | S 14 | | | | | | | | |
| M15 | 11 31 15 | 24°28'14 | 3♌45 | 13°56 | 10°50 | 6°41 | 8°32 | 19°54 | 5°18 | 9°41 | 4°54 | 20°24 | 21°36 | 8°27 | 27°16 | M15 | | | | | | | | |
| T 16 | 11 35 12 | 25°28'18 | 15°36 | 15°41 | 11°49 | 7°28 | 8°25 | 19°57 | 5°16 | 9°41 | 4°56 | 20°21 | 21°33 | 8°34 | 27°19 | T 16 | | | | | | | | |
| W17 | 11 39 8 | 26°28'19 | 27°31 | 17°28 | 12°48 | 8°15 | 8°18 | 20°0 | 5°14 | 9°40 | 4°57 | 20°17 | 21°30 | 8°40 | 27°22 | W17 | | | | | | | | |
| T 18 | 11 43 5 | 27°28'19 | 9♌36 | 19°16 | 13°46 | 9°2 | 8°10 | 20°2 | 5°12 | 9°40 | 4°59 | 20°10 | 21°27 | 8°47 | 27°26 | T 18 | | | | | | | | |
| F 19 | 11 47 1 | 28°28'17 | 21°54 | 21°4 | 14°43 | 9°50 | 8°3 | 20°5 | 5°10 | 9°40 | 5°0 | 20°1 | 21°24 | 8°54 | 27°29 | F 19 | | | | | | | | |
| S 20 | 11 50 58 | 29°28'12 | 4♌27 | 22°54 | 15°40 | 10°37 | 7°55 | 20°9 | 5°9 | 9°40 | 5°2 | 19°52 | 21°20 | 9°0 | 27°32 | S 20 | | | | | | | | |
| S 21 | 11 54 55 | 0♌28'06 | 17°16 | 24°45 | 16°37 | 11°24 | 7°47 | 20°12 | 5°7 | 9°D40 | 5°3 | 19°43 | 21°17 | 9°7 | 27°35 | S 21 | | | | | | | | |
| M22 | 11 58 51 | 1°27'57 | 0♌20 | 26°38 | 17°33 | 12°11 | 7°40 | 20°15 | 5°5 | 9°40 | 5°5 | 19°35 | 21°14 | 9°14 | 27°38 | M22 | | | | | | | | |
| T 23 | 12 2 48 | 2°27'47 | 13°39 | 28°31 | 18°28 | 12°58 | 7°32 | 20°18 | 5°3 | 9°40 | 5°6 | 19°28 | 21°11 | 9°21 | 27°42 | T 23 | | | | | | | | |
| W24 | 12 6 44 | 3°27'34 | 27°12 | 0♌25 | 19°22 | 13°45 | 7°24 | 20°22 | 5°1 | 9°40 | 5°8 | 19°24 | 21°8 | 9°27 | 27°45 | W24 | | | | | | | | |
| T 25 | 12 10 41 | 4°27'20 | 10♌54 | 2°21 | 20°17 | 14°32 | 7°16 | 20°25 | 4°59 | 9°41 | 5°9 | 19°21 | 21°5 | 9°34 | 27°48 | T 25 | | | | | | | | |
| F 26 | 12 14 37 | 5°27'05 | 24°46 | 4°17 | 21°10 | 15°20 | 7°9 | 20°29 | 4°56 | 9°41 | 5°11 | 19°D21 | 21°1 | 9°41 | 27°52 | F 26 | | | | | | | | |
| S 27 | 12 18 34 | 6°26'47 | 8♌44 | 6°15 | 22°3 | 16°7 | 7°1 | 20°33 | 4°54 | 9°41 | 5°12 | 19°22 | 20°58 | 9°47 | 27°55 | S 27 | | | | | | | | |
| S 28 | 12 22 30 | 7°26'28 | 22°48 | 8°14 | 22°55 | 16°54 | 6°53 | 20°37 | 4°52 | 9°41 | 5°14 | 19°24 | 20°55 | 9°54 | 27°58 | S 28 | | | | | | | | |
| M29 | 12 26 27 | 8°26'07 | 6♌55 | 10°13 | 23°46 | 17°41 | 6°45 | 20°41 | 4°50 | 9°41 | 5°15 | 19°R24 | 20°52 | 10°1 | 28°2 | M29 | | | | | | | | |
| T 30 | 12 30 24 | 9°25'45 | 21°6 | 12°13 | 24°37 | 18°28 | 6°38 | 20°45 | 4°48 | 9°42 | 5°17 | 19°24 | 20°49 | 10°7 | 28°5 | T 30 | | | | | | | | |
| W31 | 12 34 20 | 10°25'21 | 5♌17 | 14°14 | 25°26 | 19°15 | 6♌30 | 20°II49 | 4♌45 | 9♌42 | 5°18 | 19♌21 | 20♌46 | 10♌14 | 28°V 9 | W31 | | | | | | | | |

Delta T = 17m49s

APRIL 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|---------|-------|------|-------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| T 1 | 12 38 17 | 11°24'55 | 19♌27 | 16♌15 | 26♌16 | 20♌2 | 6°R22 | 20♐53 | 4°R43 | 9♌42 | 5°V20 | 19°R17 | 20♌42 | 10♌21 | 28°V12 | T 1 | | | | | | | | |
| F 2 | 12 42 13 | 12°24'28 | 3♌32 | 18°16 | 27°4 | 20°50 | 6♌14 | 20°57 | 4♌41 | 9°43 | 5°21 | 19♌12 | 20°39 | 10°27 | 28°16 | F 2 | | | | | | | | |
| S 3 | 12 46 10 | 13°23'58 | 17°28 | 20°17 | 27°51 | 21°37 | 6°7 | 21°2 | 4°39 | 9°43 | 5°23 | 19°6 | 20°36 | 10°34 | 28°19 | S 3 | | | | | | | | |
| S 4 | 12 50 6 | 14°23'27 | 1°V13 | 22°19 | 28°38 | 22°24 | 5°59 | 21°6 | 4°36 | 9°44 | 5°24 | 19°1 | 20°33 | 10°41 | 28°22 | S 4 | | | | | | | | |
| M 5 | 12 54 3 | 15°22'53 | 14°42 | 24°19 | 29°23 | 23°11 | 5°51 | 21°11 | 4°34 | 9°44 | 5°26 | 18°56 | 20°30 | 10°48 | 28°26 | M 5 | | | | | | | | |
| T 6 | 12 57 59 | 16°22'18 | 27°54 | 26°19 | 0♐8 | 23°58 | 5°44 | 21°15 | 4°31 | 9°45 | 5°27 | 18°52 | 20°26 | 10°54 | 28°29 | T 6 | | | | | | | | |
| W 7 | 13 1 56 | 17°21'41 | 10♌47 | 28°18 | 0°51 | 24°45 | 5°36 | 21°20 | 4°29 | 9°45 | 5°29 | 18°51 | 20°23 | 11°1 | 28°33 | W 7 | | | | | | | | |
| T 8 | 13 5 52 | 18°21'01 | 23°22 | 0♌15 | 1°34 | 25°32 | 5°29 | 21°25 | 4°27 | 9°46 | 5°30 | 18°D51 | 20°20 | 11°8 | 28°36 | T 8 | | | | | | | | |
| F 9 | 13 9 49 | 19°20'20 | 5♐41 | 2°11 | 2°15 | 26°19 | 5°21 | 21°30 | 4°24 | 9°47 | 5°32 | 18°52 | 20°17 | 11°14 | 28°40 | F 9 | | | | | | | | |
| S 10 | 13 13 46 | 20°19'36 | 17°47 | 4°4 | 2°56 | 27°6 | 5°14 | 21°35 | 4°22 | 9°47 | 5°33 | 18°53 | 20°14 | 11°21 | 28°44 | S 10 | | | | | | | | |
| S 11 | 13 17 42 | 21°18'50 | 29°43 | 5°54 | 3°35 | 27°53 | 5°7 | 21°40 | 4°19 | 9°48 | 5°35 | 18°55 | 20°11 | 11°28 | 28°47 | S 11 | | | | | | | | |
| M12 | 13 21 39 | 22°18'02 | 11♌35 | 7°41 | 4°13 | 28°40 | 5°0 | 21°45 | 4°17 | 9°49 | 5°36 | 18°56 | 20°7 | 11°34 | 28°51 | M12 | | | | | | | | |
| T 13 | 13 25 35 | 23°17'11 | 23°26 | 9°25 | 4°49 | 29°27 | 4°53 | 21°50 | 4°14 | 9°49 | 5°38 | 18°R57 | 20°4 | 11°41 | 28°54 | T 13 | | | | | | | | |
| W14 | 13 29 32 | 24°16'18 | 5♌23 | 11°5 | 5°25 | 0°V14 | 4°46 | 21°56 | 4°12 | 9°50 | 5°39 | 18°56 | 20°1 | 11°48 | 28°58 | W14 | | | | | | | | |
| T 15 | 13 33 28 | 25°15'23 | 17°29 | 12°41 | 5°59 | 1°1 | 4°39 | 22°1 | 4°9 | 9°51 | 5°41 | 18°55 | 19°58 | 11°54 | 29°1 | T 15 | | | | | | | | |
| F 16 | 13 37 25 | 26°14'26 | 29°49 | 14°12 | 6°31 | 1°48 | 4°32 | 22°6 | 4°7 | 9°52 | 5°42 | 18°52 | 19°55 | 12°1 | 29°5 | F 16 | | | | | | | | |
| S 17 | 13 41 21 | 27°13'26 | 12♐26 | 15°39 | 7°3 | 2°35 | 4°25 | 22°12 | 4°4 | 9°53 | 5°44 | 18°49 | 19°52 | 12°8 | 29°8 | S 17 | | | | | | | | |
| S 18 | 13 45 18 | 28°12'24 | 25°23 | 17°0 | 7°32 | 3°21 | 4°18 | 22°17 | 4°2 | 9°54 | 5°45 | 18°46 | 19°48 | 12°15 | 29°12 | S 18 | | | | | | | | |
| M19 | 13 49 15 | 29°11'20 | 8♌40 | 18°16 | 8°0 | 4°8 | 4°12 | 22°23 | 3°59 | 9°55 | 5°47 | 18°43 | 19°45 | 12°21 | 29°16 | M19 | | | | | | | | |
| T 20 | 13 53 11 | 0♌10'14 | 22°17 | 19°27 | 8°26 | 4°55 | 4°6 | 22°29 | 3°56 | 9°56 | 5°48 | 18°41 | 19°42 | 12°28 | 29°19 | T 20 | | | | | | | | |
| W21 | 13 57 8 | 1°9'06 | 6♌12 | 20°32 | 8°51 | 5°42 | 3°59 | 22°35 | 3°54 | 9°57 | 5°49 | 18°39 | 19°39 | 12°35 | 29°23 | W21 | | | | | | | | |
| T 22 | 14 1 4 | 2°7'56 | 20°21 | 21°32 | 9°14 | 6°29 | 3°53 | 22°40 | 3°51 | 9°58 | 5°51 | 18°D39 | 19°36 | 12°41 | 29°26 | T 22 | | | | | | | | |
| F 23 | 14 5 1 | 3°6'44 | 4♌41 | 22°25 | 9°35 | 7°15 | 3°47 | 22°46 | 3°49 | 9°59 | 5°52 | 18°39 | 19°32 | 12°48 | 29°30 | F 23 | | | | | | | | |
| S 24 | 14 8 57 | 4°5'30 | 19°5 | 23°13 | 9°54 | 8°2 | 3°41 | 22°52 | 3°46 | 10°0 | 5°54 | 18°40 | 19°29 | 12°55 | 29°33 | S 24 | | | | | | | | |
| S 25 | 14 12 54 | 5°4'15 | 3♌30 | 23°54 | 10°11 | 8°49 | 3°35 | 22°58 | 3°44 | 10°1 | 5°55 | 18°41 | 19°26 | 13°1 | 29°37 | S 25 | | | | | | | | |
| M26 | 14 16 50 | 6°2'58 | 17°52 | 24°30 | 10°27 | 9°35 | 3°30 | 23°4 | 3°41 | 10°2 | 5°56 | 18°42 | 19°23 | 13°8 | 29°40 | M26 | | | | | | | | |
| T 27 | 14 20 47 | 7°1'39 | 2♌7 | 24°59 | 10°40 | 10°22 | 3°24 | 23°11 | 3°38 | 10°3 | 5°58 | 18°R43 | 19°20 | 13°15 | 29°44 | T 27 | | | | | | | | |
| W28 | 14 24 44 | 8°0'19 | 16°14 | 25°22 | 10°51 | 11°9 | 3°19 | 23°17 | 3°36 | 10°5 | 5°59 | 18°43 | 19°17 | 13°21 | 29°47 | W28 | | | | | | | | |
| T 29 | 14 28 40 | 8°58'57 | 0♌9 | 25°39 | 11°0 | 11°55 | 3°14 | 23°23 | 3°33 | 10°6 | 6°0 | 18°42 | 19°13 | 13°28 | 29°51 | T 29 | | | | | | | | |
| F 30 | 14 32 37 | 9♌57'33 | 13♌53 | 25♌50 | 11♐6 | 12°V42 | 3♌9 | 23°II29 | 3♌31 | 10♌7 | 6°V 2 | 18♌41 | 19♌10 | 13♌35 | 29°V55 | F 30 | | | | | | | | |

Delta T = 17m49s

ASTRODIENST EPHEMERIS for the year 2562
geocentric

MAY 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|-------|-------|-------|------|--------|-------|-------|-------|------|-----|
| S 1 | 14 36 33 | 10♅56'08 | 27♁24 | 25°R54 | 11♂11 | 13♂28 | 3°R 4 | 23♂36 | 3°R28 | 10♁ 9 | 6♂ 3 | 18°R40 | 19♁ 7 | 13♁42 | 29♂58 | S 1 | |
| S 2 | 14 40 30 | 11°54'41 | 10♂41 | 25♂53 | 11°R13 | 14°15 | 2♁59 | 23°42 | 3♂26 | 10°10 | 6° 4 | 18♁39 | 19° 4 | 13°48 | 0♁ 2 | S 2 | |
| M 3 | 14 44 26 | 12°53'12 | 23°45 | 25°47 | 11°12 | 15° 1 | 2°54 | 23°49 | 3°23 | 10°11 | 6° 6 | 18°39 | 19° 1 | 13°55 | 0° 5 | M 3 | |
| T 4 | 14 48 23 | 13°51'42 | 6♁35 | 25°35 | 11°10 | 15°48 | 2°50 | 23°55 | 3°21 | 10°13 | 6° 7 | 18°38 | 18°57 | 14° 2 | 0° 9 | T 4 | |
| W 5 | 14 52 19 | 14°50'10 | 19°11 | 25°18 | 11° 5 | 16°34 | 2°45 | 24° 2 | 3°18 | 10°14 | 6° 8 | 18°D38 | 18°54 | 14° 8 | 0°12 | W 5 | |
| T 6 | 14 56 16 | 15°48'36 | 1♂34 | 24°57 | 10°57 | 17°21 | 2°41 | 24° 9 | 3°16 | 10°15 | 6° 9 | 18°38 | 18°51 | 14°15 | 0°16 | T 6 | |
| F 7 | 15 0 13 | 16°47'00 | 13°46 | 24°31 | 10°47 | 18° 7 | 2°37 | 24°15 | 3°13 | 10°17 | 6°10 | 18°38 | 18°48 | 14°22 | 0°19 | F 7 | |
| S 8 | 15 4 9 | 17°45'22 | 25°48 | 24° 2 | 10°35 | 18°53 | 2°34 | 24°22 | 3°11 | 10°18 | 6°12 | 18°39 | 18°45 | 14°28 | 0°22 | S 8 | |
| S 9 | 15 8 6 | 18°43'42 | 7♁43 | 23°29 | 10°20 | 19°40 | 2°30 | 24°29 | 3° 8 | 10°20 | 6°13 | 18°R39 | 18°42 | 14°35 | 0°26 | S 9 | |
| M10 | 15 12 2 | 19°42'00 | 19°34 | 22°54 | 10° 3 | 20°26 | 2°26 | 24°36 | 3° 6 | 10°21 | 6°14 | 18°39 | 18°38 | 14°42 | 0°29 | M10 | |
| T 11 | 15 15 59 | 20°40'17 | 1♂26 | 22°18 | 9°43 | 21°12 | 2°23 | 24°43 | 3° 3 | 10°23 | 6°15 | 18°38 | 18°35 | 14°49 | 0°33 | T 11 | |
| W12 | 15 19 55 | 21°38'31 | 13°22 | 21°40 | 9°21 | 21°58 | 2°20 | 24°50 | 3° 1 | 10°25 | 6°16 | 18°38 | 18°32 | 14°55 | 0°36 | W12 | |
| T 13 | 15 23 52 | 22°36'43 | 25°27 | 21° 2 | 8°57 | 22°44 | 2°17 | 24°57 | 2°58 | 10°26 | 6°18 | 18°D38 | 18°29 | 15° 2 | 0°39 | T 13 | |
| F 14 | 15 27 48 | 23°34'53 | 7♂45 | 20°24 | 8°31 | 23°30 | 2°14 | 25° 4 | 2°56 | 10°28 | 6°19 | 18°38 | 18°26 | 15° 9 | 0°43 | F 14 | |
| S 15 | 15 31 45 | 24°33'02 | 20°21 | 19°47 | 8° 2 | 24°16 | 2°12 | 25°11 | 2°54 | 10°30 | 6°20 | 18°39 | 18°23 | 15°15 | 0°46 | S 15 | |
| S 16 | 15 35 42 | 25°31'08 | 3♁18 | 19°11 | 7°32 | 25° 2 | 2° 9 | 25°18 | 2°51 | 10°31 | 6°21 | 18°39 | 18°19 | 15°22 | 0°49 | S 16 | |
| M17 | 15 39 38 | 26°29'13 | 16°38 | 18°38 | 7° 1 | 25°48 | 2° 7 | 25°25 | 2°49 | 10°33 | 6°22 | 18°40 | 18°16 | 15°29 | 0°53 | M17 | |
| T 18 | 15 43 35 | 27°27'15 | 0♂24 | 18° 7 | 6°27 | 26°34 | 2° 5 | 25°32 | 2°47 | 10°35 | 6°23 | 18°41 | 18°13 | 15°35 | 0°56 | T 18 | |
| W19 | 15 47 31 | 28°25'16 | 14°33 | 17°39 | 5°53 | 27°20 | 2° 3 | 25°39 | 2°45 | 10°36 | 6°24 | 18°R41 | 18°10 | 15°42 | 0°59 | W19 | |
| T 20 | 15 51 28 | 29°23'16 | 29° 2 | 17°15 | 5°17 | 28° 6 | 2° 1 | 25°47 | 2°42 | 10°38 | 6°25 | 18°41 | 18° 7 | 15°49 | 1° 2 | T 20 | |
| F 21 | 15 55 24 | 0♂21'13 | 13♁46 | 16°55 | 4°40 | 28°52 | 2° 0 | 25°54 | 2°40 | 10°40 | 6°26 | 18°40 | 18° 3 | 15°56 | 1° 6 | F 21 | |
| S 22 | 15 59 21 | 1°19'10 | 28°37 | 16°39 | 4° 3 | 29°38 | 1°59 | 26° 1 | 2°38 | 10°42 | 6°27 | 18°39 | 18° 0 | 16° 2 | 1° 9 | S 22 | |
| S 23 | 16 3 18 | 2°17'05 | 13♁28 | 16°27 | 3°25 | 0♁23 | 1°57 | 26° 9 | 2°36 | 10°44 | 6°28 | 18°38 | 17°57 | 16° 9 | 1°12 | S 23 | |
| M24 | 16 7 14 | 3°14'59 | 28°12 | 16°20 | 2°47 | 1° 9 | 1°56 | 26°16 | 2°34 | 10°45 | 6°29 | 18°36 | 17°54 | 16°16 | 1°15 | M24 | |
| T 25 | 16 11 11 | 4°12'51 | 12♁42 | 16°D17 | 2°10 | 1°55 | 1°56 | 26°23 | 2°32 | 10°47 | 6°30 | 18°35 | 17°51 | 16°22 | 1°18 | T 25 | |
| W26 | 16 15 7 | 5°10'43 | 26°55 | 16°19 | 1°32 | 2°40 | 1°55 | 26°31 | 2°30 | 10°49 | 6°31 | 18°34 | 17°48 | 16°29 | 1°21 | W26 | |
| T 27 | 16 19 4 | 6° 8'33 | 10♁48 | 16°25 | 0°56 | 3°26 | 1°55 | 26°38 | 2°28 | 10°51 | 6°32 | 18°D34 | 17°44 | 16°36 | 1°25 | T 27 | |
| F 28 | 16 23 0 | 7° 6'22 | 24°22 | 16°36 | 0°20 | 4°11 | 1°54 | 26°46 | 2°26 | 10°53 | 6°32 | 18°34 | 17°41 | 16°42 | 1°28 | F 28 | |
| S 29 | 16 26 57 | 8° 4'10 | 7♂36 | 16°51 | 29♁45 | 4°57 | 1°D54 | 26°53 | 2°24 | 10°55 | 6°33 | 18°35 | 17°38 | 16°49 | 1°31 | S 29 | |
| S 30 | 16 30 53 | 9° 1'56 | 20°34 | 17°11 | 29°11 | 5°42 | 1°54 | 27° 1 | 2°22 | 10°57 | 6°34 | 18°37 | 17°35 | 16°56 | 1°34 | S 30 | |
| M31 | 16 34 50 | 9♂59'42 | 3♁17 | 17♁35 | 28♁39 | 6♁27 | 1♁55 | 27♂ 8 | 2♂20 | 10♁59 | 6♂35 | 18♁38 | 17♁32 | 17♁ 3 | 1♁37 | M31 | |

Delta T = 17m50s

JUNE 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|--------|-------|------|-------|-------|-------|------|--------|-------|-------|------|------|-----|
| T 1 | 16 38 47 | 10♂57'26 | 15♁47 | 18♁ 4 | 28°R 9 | 7♁13 | 1♁55 | 27♂16 | 2°R18 | 11♁ 1 | 6♂36 | 18°R39 | 17♁29 | 17♁ 9 | 1♁39 | T 1 | |
| W 2 | 16 42 43 | 11°55'10 | 28° 6 | 18°36 | 27♁40 | 7°58 | 1°56 | 27°23 | 2♂16 | 11° 3 | 6°37 | 18♁39 | 17°25 | 17°16 | 1°42 | W 2 | |
| T 3 | 16 46 40 | 12°52'52 | 10♂16 | 19°13 | 27°13 | 8°43 | 1°57 | 27°31 | 2°15 | 11° 5 | 6°37 | 18°37 | 17°22 | 17°23 | 1°45 | T 3 | |
| F 4 | 16 50 36 | 13°50'33 | 22°18 | 19°53 | 26°48 | 9°28 | 1°58 | 27°39 | 2°13 | 11° 7 | 6°38 | 18°34 | 17°19 | 17°29 | 1°48 | F 4 | |
| S 5 | 16 54 33 | 14°48'13 | 4♁15 | 20°38 | 26°26 | 10°13 | 1°59 | 27°46 | 2°11 | 11° 9 | 6°39 | 18°31 | 17°16 | 17°36 | 1°51 | S 5 | |
| S 6 | 16 58 29 | 15°45'52 | 16° 7 | 21°25 | 26° 5 | 10°58 | 2° 0 | 27°54 | 2°10 | 11°11 | 6°39 | 18°26 | 17°13 | 17°43 | 1°54 | S 6 | |
| M 7 | 17 2 26 | 16°43'29 | 27°58 | 22°17 | 25°47 | 11°43 | 2° 2 | 28° 2 | 2° 8 | 11°13 | 6°40 | 18°21 | 17° 9 | 17°50 | 1°56 | M 7 | |
| T 8 | 17 6 22 | 17°41'05 | 9♁50 | 23°12 | 25°31 | 12°28 | 2° 4 | 28°10 | 2° 6 | 11°15 | 6°41 | 18°17 | 17° 6 | 17°56 | 1°59 | T 8 | |
| W 9 | 17 10 19 | 18°38'39 | 21°46 | 24°10 | 25°18 | 13°13 | 2° 5 | 28°17 | 2° 5 | 11°17 | 6°41 | 18°13 | 17° 3 | 18° 3 | 2° 2 | W 9 | |
| T 10 | 17 14 16 | 19°36'13 | 3♂49 | 25°12 | 25° 7 | 13°58 | 2° 8 | 28°25 | 2° 3 | 11°19 | 6°42 | 18°10 | 17° 0 | 18°10 | 2° 5 | T 10 | |
| F 11 | 17 18 12 | 20°33'44 | 16° 5 | 26°17 | 24°58 | 14°43 | 2°10 | 28°33 | 2° 2 | 11°21 | 6°43 | 18°D 9 | 16°57 | 18°16 | 2° 7 | F 11 | |
| S 12 | 17 22 9 | 21°31'15 | 28°37 | 27°25 | 24°52 | 15°28 | 2°12 | 28°40 | 2° 1 | 11°23 | 6°43 | 18° 9 | 16°54 | 18°23 | 2°10 | S 12 | |
| S 13 | 17 26 5 | 22°28'44 | 11♁29 | 28°36 | 24°48 | 16°12 | 2°15 | 28°48 | 1°59 | 11°26 | 6°44 | 18°10 | 16°50 | 18°30 | 2°12 | S 13 | |
| M14 | 17 30 2 | 23°26'12 | 24°46 | 29°50 | 24°D46 | 16°57 | 2°18 | 28°56 | 1°58 | 11°28 | 6°44 | 18°12 | 16°47 | 18°36 | 2°15 | M14 | |
| T 15 | 17 33 58 | 24°23'39 | 8♂29 | 1♂ 7 | 24°47 | 17°41 | 2°21 | 29° 4 | 1°57 | 11°30 | 6°45 | 18°13 | 16°44 | 18°43 | 2°17 | T 15 | |
| W16 | 17 37 55 | 25°21'05 | 22°40 | 2°27 | 24°50 | 18°26 | 2°24 | 29°12 | 1°56 | 11°32 | 6°45 | 18°R13 | 16°41 | 18°50 | 2°20 | W16 | |
| T 17 | 17 41 51 | 26°18'30 | 7♁17 | 3°50 | 24°56 | 19°10 | 2°27 | 29°19 | 1°54 | 11°34 | 6°46 | 18°12 | 16°38 | 18°57 | 2°22 | T 17 | |
| F 18 | 17 45 48 | 27°15'54 | 22°13 | 5°16 | 25° 3 | 19°55 | 2°30 | 29°27 | 1°53 | 11°36 | 6°46 | 18° 9 | 16°35 | 19° 3 | 2°24 | F 18 | |
| S 19 | 17 49 45 | 28°13'17 | 7♁23 | 6°44 | 25°13 | 20°39 | 2°34 | 29°35 | 1°52 | 11°39 | 6°46 | 18° 4 | 16°31 | 19°10 | 2°27 | S 19 | |
| S 20 | 17 53 41 | 29°10'39 | 22°35 | 8°16 | 25°25 | 21°23 | 2°38 | 29°43 | 1°51 | 11°41 | 6°47 | 17°59 | 16°28 | 19°17 | 2°29 | S 20 | |
| M21 | 17 57 38 | 0♁ 8'01 | 7♁39 | 9°50 | 25°39 | 22° 8 | 2°42 | 29°51 | 1°50 | 11°43 | 6°47 | 17°53 | 16°25 | 19°23 | 2°31 | M21 | |
| T 22 | 18 1 34 | 1° 5'22 | 22°28 | 11°27 | 25°54 | 22°52 | 2°46 | 29°58 | 1°49 | 11°45 | 6°48 | 17°47 | 16°22 | 19°30 | 2°34 | T 22 | |
| W23 | 18 5 31 | 2° 2'43 | 6♁53 | 13° 7 | 26°12 | 23°36 | 2°50 | 0♁ 6 | 1°48 | 11°47 | 6°48 | 17°43 | 16°19 | 19°37 | 2°36 | W23 | |
| T 24 | 18 9 27 | 3° 0'03 | 20°53 | 14°50 | 26°32 | 24°20 | 2°54 | 0°14 | 1°48 | 11°50 | 6°48 | 17°41 | 16°15 | 19°44 | 2°38 | T 24 | |
| F 25 | 18 13 24 | 3°57'23 | 4♂26 | 16°35 | 26°53 | 25° 4 | 2°59 | 0°22 | 1°47 | 11°52 | 6°49 | 17°D40 | 16°12 | 19°50 | 2°40 | F 25 | |
| S 26 | 18 17 20 | 4°54'42 | 17°35 | 18°23 | 27°16 | 25°48 | 3° 4 | 0°29 | 1°46 | 11°54 | 6°49 | 17°41 | 16° 9 | 19°57 | 2°42 | S 26 | |
| S 27 | 18 21 17 | 5°52'01 | 0♁23 | 20°14 | 27°41 | 26°32 | 3° 9 | 0°37 | 1°45 | 11°56 | 6°49 | 17°42 | 16° 6 | 20° 4 | 2°44 | S 27 | |
| M28 | 18 25 14 | 6°49'20 | 12°54 | 22° 7 | 28° 8 | 27°15 | 3°14 | 0°45 | 1°45 | 11°58 | 6°49 | 17°R43 | 16° 3 | 20°10 | 2°46 | M28 | |
| T 29 | 18 29 10 | 7°46'39 | 25°10 | 24° 3 | 28°36 | 27°59 | 3°19 | 0°53 | 1°44 | 12° 1 | 6°49 | 17°43 | 16° 0 | 20°17 | 2°48 | T 29 | |
| W30 | 18 33 7 | 8°43'57 | 7♂17 | 26♂ 1 | 29♁ 5 | 28♁43 | 3♁24 | 1♁ 1 | 1♂44 | 12♁ 3 | 6♂50 | 17♁41 | 15♁56 | 20♁24 | 2♁50 | W30 | |

Delta T = 17m50s

ASTRODIENST EPHEMERIS for the year 2562
geocentric

JULY 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|------|------|-------|-------|-------|--------|-------|-------|------|------|-----|
| T 1 | 18 37 3 | 9♄16'16 | 19♂16 | 28♂2 | 29♂36 | 29♂26 | 3♁30 | 1♁8 | 1°R43 | 12♁5 | 6♂50 | 17°R36 | 15♂53 | 20♁30 | 2♂51 | T 1 | |
| F 2 | 18 41 0 | 10°38'33 | 1♁11 | 0♁4 | 0♂9 | 0♂10 | 3°35 | 1°16 | 1♂43 | 12°7 | 6°50 | 17♂30 | 15°50 | 20°37 | 2°53 | F 2 | |
| S 3 | 18 44 56 | 11°35'51 | 13°3 | 2°9 | 0°42 | 0°54 | 3°41 | 1°24 | 1°42 | 12°10 | 6°50 | 17°21 | 15°47 | 20°44 | 2°55 | S 3 | |
| S 4 | 18 48 53 | 12°33'08 | 24°54 | 4°15 | 1°17 | 1°37 | 3°47 | 1°32 | 1°42 | 12°12 | 6°50 | 17°11 | 15°44 | 20°51 | 2°57 | S 4 | |
| M 5 | 18 52 50 | 13°30'25 | 6♂46 | 6°23 | 1°53 | 2°20 | 3°53 | 1°39 | 1°42 | 12°14 | 6°50 | 17°0 | 15°41 | 20°57 | 2°58 | M 5 | |
| T 6 | 18 56 46 | 14°27'41 | 18°40 | 8°32 | 2°30 | 3°4 | 3°59 | 1°47 | 1°42 | 12°16 | 6°50 | 16°50 | 15°37 | 21°4 | 3°0 | T 6 | |
| W 7 | 19 0 43 | 15°24'57 | 0♂38 | 10°41 | 3°9 | 3°47 | 4°5 | 1°55 | 1°42 | 12°19 | 6°R50 | 16°41 | 15°34 | 21°11 | 3°1 | W 7 | |
| T 8 | 19 4 39 | 16°22'12 | 12°44 | 12°52 | 3°48 | 4°30 | 4°12 | 2°2 | 1°41 | 12°21 | 6°50 | 16°34 | 15°31 | 21°17 | 3°3 | T 8 | |
| F 9 | 19 8 36 | 17°19'27 | 25°0 | 15°3 | 4°29 | 5°13 | 4°18 | 2°10 | 1°41 | 12°23 | 6°50 | 16°29 | 15°28 | 21°24 | 3°4 | F 9 | |
| S 10 | 19 12 32 | 18°16'41 | 7♁30 | 17°14 | 5°11 | 5°56 | 4°25 | 2°17 | 1°D41 | 12°25 | 6°50 | 16°27 | 15°25 | 21°31 | 3°6 | S 10 | |
| S 11 | 19 16 29 | 19°13'55 | 20°19 | 19°25 | 5°53 | 6°39 | 4°32 | 2°25 | 1°41 | 12°27 | 6°50 | 16°D26 | 15°21 | 21°38 | 3°7 | S 11 | |
| M12 | 19 20 25 | 20°11'09 | 3♂29 | 21°35 | 6°37 | 7°22 | 4°39 | 2°33 | 1°42 | 12°30 | 6°50 | 16°27 | 15°18 | 21°44 | 3°8 | M12 | |
| T 13 | 19 24 22 | 21°8'22 | 17°5 | 23°45 | 7°21 | 8°5 | 4°46 | 2°40 | 1°42 | 12°32 | 6°50 | 16°R27 | 15°15 | 21°51 | 3°10 | T 13 | |
| W14 | 19 28 19 | 22°5'35 | 1♂8 | 25°53 | 8°6 | 8°48 | 4°53 | 2°48 | 1°42 | 12°34 | 6°49 | 16°26 | 15°12 | 21°58 | 3°11 | W14 | |
| T 15 | 19 32 15 | 23°2'48 | 15°39 | 28°1 | 8°52 | 9°30 | 5°1 | 2°55 | 1°42 | 12°36 | 6°49 | 16°24 | 15°9 | 22°4 | 3°12 | T 15 | |
| F 16 | 19 36 12 | 24°0'01 | 0♁34 | 0♂8 | 9°39 | 10°13 | 5°8 | 3°3 | 1°42 | 12°39 | 6°49 | 16°18 | 15°6 | 22°11 | 3°13 | F 16 | |
| S 17 | 19 40 8 | 24°57'14 | 15°46 | 2°13 | 10°27 | 10°55 | 5°16 | 3°10 | 1°43 | 12°41 | 6°49 | 16°11 | 15°2 | 22°18 | 3°14 | S 17 | |
| S 18 | 19 44 5 | 25°54'27 | 1♁6 | 4°16 | 11°15 | 11°38 | 5°24 | 3°18 | 1°43 | 12°43 | 6°49 | 16°1 | 14°59 | 22°25 | 3°15 | S 18 | |
| M19 | 19 48 1 | 26°51'39 | 16°21 | 6°18 | 12°5 | 12°20 | 5°32 | 3°25 | 1°44 | 12°45 | 6°48 | 15°52 | 14°56 | 22°31 | 3°16 | M19 | |
| T 20 | 19 51 58 | 27°48'52 | 1♂22 | 8°18 | 12°54 | 13°3 | 5°40 | 3°32 | 1°44 | 12°47 | 6°48 | 15°42 | 14°53 | 22°38 | 3°17 | T 20 | |
| W21 | 19 55 54 | 28°46'05 | 15°59 | 10°17 | 13°45 | 13°45 | 5°48 | 3°40 | 1°45 | 12°49 | 6°48 | 15°35 | 14°50 | 22°45 | 3°18 | W21 | |
| T 22 | 19 59 51 | 29°43'19 | 0♂8 | 12°13 | 14°36 | 14°27 | 5°56 | 3°47 | 1°45 | 12°52 | 6°47 | 15°30 | 14°47 | 22°51 | 3°19 | T 22 | |
| F 23 | 20 3 48 | 0♂40'33 | 13°47 | 14°8 | 15°28 | 15°9 | 6°4 | 3°54 | 1°46 | 12°54 | 6°47 | 15°27 | 14°43 | 22°58 | 3°20 | F 23 | |
| S 24 | 20 7 44 | 1°37'48 | 26°58 | 16°1 | 16°20 | 15°51 | 6°13 | 4°1 | 1°47 | 12°56 | 6°47 | 15°D26 | 14°40 | 23°5 | 3°20 | S 24 | |
| S 25 | 20 11 41 | 2°35'03 | 9♂45 | 17°52 | 17°13 | 16°33 | 6°21 | 4°9 | 1°48 | 12°58 | 6°46 | 15°R26 | 14°37 | 23°12 | 3°21 | S 25 | |
| M26 | 20 15 37 | 3°32'19 | 3°21 | 19°41 | 18°7 | 17°15 | 6°30 | 4°16 | 1°49 | 13°0 | 6°46 | 15°26 | 14°34 | 23°18 | 3°22 | M26 | |
| T 27 | 20 19 34 | 4°29'36 | 4♂22 | 21°29 | 19°1 | 17°57 | 6°39 | 4°23 | 1°49 | 13°2 | 6°45 | 15°24 | 14°31 | 23°25 | 3°22 | T 27 | |
| W28 | 20 23 30 | 5°26'53 | 16°23 | 23°14 | 19°56 | 18°39 | 6°48 | 4°30 | 1°50 | 13°4 | 6°45 | 15°21 | 14°27 | 23°32 | 3°23 | W28 | |
| T 29 | 20 27 27 | 6°24'11 | 28°17 | 24°58 | 20°51 | 19°21 | 6°57 | 4°37 | 1°51 | 13°6 | 6°45 | 15°15 | 14°24 | 23°38 | 3°23 | T 29 | |
| F 30 | 20 31 23 | 7°21'30 | 10♁7 | 26°40 | 21°47 | 20°2 | 7°6 | 4°44 | 1°52 | 13°9 | 6°44 | 15°6 | 14°21 | 23°45 | 3°23 | F 30 | |
| S 31 | 20 35 20 | 8♂18'49 | 21♁58 | 28♂20 | 22♂43 | 20♂44 | 7♁15 | 4♁51 | 1♂54 | 13♁11 | 6♂44 | 14♂55 | 14♂18 | 23♁52 | 3♂24 | S 31 | |

Delta T = 17m50s

AUGUST 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|------|-------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 20 39 17 | 9♂16'09 | 3♂50 | 29♂58 | 23♂39 | 21♂25 | 7♁24 | 4♁58 | 1♂55 | 13♁13 | 6°R43 | 14°R41 | 14♂15 | 23♁59 | 3♂24 | S 1 | |
| M 2 | 20 43 13 | 10°13'29 | 15°45 | 1♂34 | 24°37 | 22°7 | 7°33 | 5°5 | 1°56 | 13°15 | 6°Y42 | 14♂28 | 14°12 | 24°5 | 3°24 | M 2 | |
| T 3 | 20 47 10 | 11°10'50 | 27°45 | 3°9 | 25°34 | 22°48 | 7°43 | 5°12 | 1°57 | 13°17 | 6°42 | 14°14 | 14°8 | 24°12 | 3°24 | T 3 | |
| W 4 | 20 51 6 | 12°8'12 | 9♂51 | 4°41 | 26°32 | 23°29 | 7°53 | 5°19 | 1°58 | 13°19 | 6°41 | 14°2 | 14°5 | 24°19 | 3°25 | W 4 | |
| T 5 | 20 55 3 | 13°5'33 | 22°4 | 6°12 | 27°30 | 24°10 | 8°2 | 5°25 | 2°0 | 13°21 | 6°41 | 13°52 | 14°2 | 24°25 | 3°25 | T 5 | |
| F 6 | 20 58 59 | 14°2'56 | 4♁27 | 7°41 | 28°29 | 24°51 | 8°12 | 5°32 | 2°1 | 13°23 | 6°40 | 13°45 | 13°59 | 24°32 | 3°R25 | F 6 | |
| S 7 | 21 2 56 | 15°0'19 | 17°2 | 9°8 | 29°28 | 25°32 | 8°22 | 5°39 | 2°3 | 13°25 | 6°39 | 13°41 | 13°56 | 24°39 | 3°25 | S 7 | |
| S 8 | 21 6 52 | 15°57'42 | 29°51 | 10°33 | 0♁27 | 26°13 | 8°32 | 5°45 | 2°4 | 13°27 | 6°39 | 13°40 | 13°53 | 24°46 | 3°25 | S 8 | |
| M 9 | 21 10 49 | 16°55'06 | 12♂59 | 11°56 | 1°27 | 26°54 | 8°42 | 5°52 | 2°6 | 13°29 | 6°38 | 13°39 | 13°49 | 24°52 | 3°24 | M 9 | |
| T 10 | 21 14 46 | 17°52'30 | 26°29 | 13°18 | 2°27 | 27°35 | 8°52 | 5°58 | 2°7 | 13°31 | 6°37 | 13°39 | 13°46 | 24°59 | 3°24 | T 10 | |
| W11 | 21 18 42 | 18°49'55 | 10♂23 | 14°37 | 3°27 | 28°16 | 9°2 | 6°5 | 2°9 | 13°32 | 6°37 | 13°38 | 13°43 | 25°6 | 3°24 | W11 | |
| T 12 | 21 22 39 | 19°47'21 | 24°42 | 15°54 | 4°28 | 28°56 | 9°13 | 6°11 | 2°11 | 13°34 | 6°36 | 13°35 | 13°40 | 25°12 | 3°24 | T 12 | |
| F 13 | 21 26 35 | 20°44'47 | 9♁24 | 17°9 | 5°29 | 29°37 | 9°23 | 6°17 | 2°12 | 13°36 | 6°35 | 13°29 | 13°37 | 25°19 | 3°23 | F 13 | |
| S 14 | 21 30 32 | 21°42'14 | 24°24 | 18°22 | 6°31 | 0♁17 | 9°33 | 6°24 | 2°14 | 13°38 | 6°34 | 13°21 | 13°33 | 25°26 | 3°23 | S 14 | |
| S 15 | 21 34 28 | 22°39'42 | 9♁34 | 19°32 | 7°32 | 0°58 | 9°44 | 6°30 | 2°16 | 13°40 | 6°33 | 13°11 | 13°30 | 25°33 | 3°22 | S 15 | |
| M16 | 21 38 25 | 23°37'10 | 24°45 | 20°41 | 8°34 | 1°38 | 9°55 | 6°36 | 2°18 | 13°42 | 6°33 | 13°1 | 13°27 | 25°39 | 3°22 | M16 | |
| T 17 | 21 42 21 | 24°34'40 | 9♂44 | 21°47 | 9°37 | 2°18 | 10°5 | 6°42 | 2°20 | 13°44 | 6°32 | 12°50 | 13°24 | 25°46 | 3°21 | T 17 | |
| W18 | 21 46 18 | 25°32'10 | 24°24 | 22°50 | 10°39 | 2°58 | 10°16 | 6°48 | 2°22 | 13°45 | 6°31 | 12°42 | 13°21 | 25°53 | 3°21 | W18 | |
| T 19 | 21 50 15 | 26°29'42 | 8♂37 | 23°51 | 11°42 | 3°38 | 10°27 | 6°54 | 2°24 | 13°47 | 6°30 | 12°36 | 13°18 | 25°59 | 3°20 | T 19 | |
| F 20 | 21 54 11 | 27°27'15 | 22°22 | 24°49 | 12°45 | 4°18 | 10°38 | 7°0 | 2°26 | 13°49 | 6°29 | 12°32 | 13°14 | 26°6 | 3°19 | F 20 | |
| S 21 | 21 58 8 | 28°24'49 | 5♁38 | 25°44 | 13°49 | 4°58 | 10°49 | 7°6 | 2°28 | 13°51 | 6°28 | 12°31 | 13°11 | 26°13 | 3°19 | S 21 | |
| S 22 | 22 2 4 | 29°22'25 | 18°28 | 26°37 | 14°52 | 5°38 | 11°0 | 7°12 | 2°30 | 13°52 | 6°27 | 12°D31 | 13°8 | 26°20 | 3°18 | S 22 | |
| M23 | 22 6 1 | 0♂20'03 | 0♂56 | 27°26 | 15°56 | 6°17 | 11°11 | 7°18 | 2°32 | 13°54 | 6°27 | 12°R31 | 13°5 | 26°26 | 3°17 | M23 | |
| T 24 | 22 9 57 | 1°17'41 | 13°7 | 28°12 | 17°0 | 6°57 | 11°22 | 7°23 | 2°35 | 13°56 | 6°26 | 12°30 | 13°2 | 26°33 | 3°16 | T 24 | |
| W25 | 22 13 54 | 2°15'22 | 25°7 | 28°54 | 18°5 | 7°37 | 11°33 | 7°29 | 2°37 | 13°57 | 6°25 | 12°28 | 12°59 | 26°40 | 3°15 | W25 | |
| T 26 | 22 17 50 | 3°13'04 | 7♁0 | 29°33 | 19°9 | 8°16 | 11°45 | 7°34 | 2°39 | 13°59 | 6°24 | 12°23 | 12°55 | 26°46 | 3°14 | T 26 | |
| F 27 | 22 21 47 | 4°10'47 | 18°50 | 0♁8 | 20°14 | 8°55 | 11°56 | 7°40 | 2°42 | 14°0 | 6°23 | 12°16 | 12°52 | 26°53 | 3°13 | F 27 | |
| S 28 | 22 25 44 | 5°8'32 | 0♂42 | 0°38 | 21°19 | 9°35 | 12°8 | 7°45 | 2°44 | 14°2 | 6°22 | 12°6 | 12°49 | 27°0 | 3°12 | S 28 | |
| S 29 | 22 29 40 | 6°6'18 | 12°37 | 1°5 | 22°24 | 10°14 | 12°19 | 7°51 | 2°46 | 14°3 | 6°21 | 11°55 | 12°46 | 27°7 | 3°11 | S 29 | |
| M30 | 22 33 37 | 7°4'05 | 24°39 | 1°26 | 23°30 | 10°53 | 12°31 | 7°56 | 2°49 | 14°5 | 6°20 | 11°43 | 12°43 | 27°13 | 3°10 | M30 | |
| T 31 | 22 37 33 | 8♂1'54 | 6♂47 | 1♁43 | 24♁36 | 11♁32 | 12♁42 | 8♁1 | 2♂51 | 14♁6 | 6♂19 | 11♂31 | 12♂39 | 27♁20 | 3♂8 | T 31 | |

Delta T = 17m51s

ASTRODIENST EPHEMERIS for the year 2562
geocentric

SEPTEMBER 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|------|-------|-------|--------|-------|-------|-------|------|-----|
| W 1 | 22 41 30 | 8♄59'45 | 19♄5 | 1♄55 | 25♄42 | 12♄11 | 12♄54 | 8♄6 | 2♄54 | 14♄8 | 6°R18 | 11°R21 | 12♄36 | 27♄27 | 3°R 7 | W 1 | |
| T 2 | 22 45 26 | 9°57'36 | 1♄31 | 2° 2 | 26°48 | 12°49 | 13° 6 | 8°11 | 2°57 | 14° 9 | 6°Y17 | 11♄12 | 12°33 | 27°34 | 3♄6 | T 2 | |
| F 3 | 22 49 23 | 10°55'29 | 14° 8 | 2°R 3 | 27°54 | 13°28 | 13°17 | 8°16 | 2°59 | 14°11 | 6°16 | 11° 7 | 12°30 | 27°40 | 3° 4 | F 3 | |
| S 4 | 22 53 19 | 11°53'23 | 26°55 | 1°58 | 29° 0 | 14° 7 | 13°29 | 8°21 | 3° 2 | 14°12 | 6°14 | 11° 4 | 12°27 | 27°47 | 3° 3 | S 4 | |
| S 5 | 22 57 16 | 12°51'19 | 9♄56 | 1°47 | 0♄ 7 | 14°45 | 13°41 | 8°26 | 3° 5 | 14°14 | 6°13 | 11°D 3 | 12°24 | 27°54 | 3° 1 | S 5 | |
| M 6 | 23 1 13 | 13°49'16 | 23°10 | 1°31 | 1°14 | 15°24 | 13°53 | 8°30 | 3° 7 | 14°15 | 6°12 | 11° 3 | 12°20 | 28° 0 | 3° 0 | M 6 | |
| T 7 | 23 5 9 | 14°47'14 | 6♄41 | 1° 8 | 2°21 | 16° 2 | 14° 5 | 8°35 | 3°10 | 14°16 | 6°11 | 11° 4 | 12°17 | 28° 7 | 2°58 | T 7 | |
| W 8 | 23 9 6 | 15°45'14 | 20°31 | 0°39 | 3°28 | 16°40 | 14°17 | 8°40 | 3°13 | 14°17 | 6°10 | 11°R 4 | 12°14 | 28°14 | 2°57 | W 8 | |
| T 9 | 23 13 2 | 16°43'15 | 4♄39 | 0° 5 | 4°35 | 17°18 | 14°29 | 8°44 | 3°16 | 14°19 | 6° 9 | 11° 3 | 12°11 | 28°21 | 2°55 | T 9 | |
| F 10 | 23 16 59 | 17°41'17 | 19° 4 | 29♄25 | 5°43 | 17°56 | 14°42 | 8°48 | 3°19 | 14°20 | 6° 8 | 10°59 | 12° 8 | 28°27 | 2°53 | F 10 | |
| S 11 | 23 20 55 | 18°39'20 | 3♄44 | 28°39 | 6°50 | 18°34 | 14°54 | 8°53 | 3°22 | 14°21 | 6° 7 | 10°54 | 12° 5 | 28°34 | 2°51 | S 11 | |
| S 12 | 23 24 52 | 19°37'25 | 18°33 | 27°49 | 7°58 | 19°12 | 15° 6 | 8°57 | 3°25 | 14°22 | 6° 6 | 10°47 | 12° 1 | 28°41 | 2°50 | S 12 | |
| M13 | 23 28 48 | 20°35'31 | 3♄24 | 26°56 | 9° 6 | 19°49 | 15°18 | 9° 1 | 3°28 | 14°23 | 6° 4 | 10°39 | 11°58 | 28°47 | 2°48 | M13 | |
| T 14 | 23 32 45 | 21°33'39 | 18° 7 | 25°59 | 10°14 | 20°27 | 15°31 | 9° 5 | 3°31 | 14°24 | 6° 3 | 10°31 | 11°55 | 28°54 | 2°46 | T 14 | |
| W15 | 23 36 42 | 22°31'48 | 2°Y35 | 25° 0 | 11°23 | 21° 4 | 15°43 | 9° 9 | 3°34 | 14°26 | 6° 2 | 10°25 | 11°52 | 29° 1 | 2°44 | W15 | |
| T 16 | 23 40 38 | 23°29'59 | 16°43 | 24° 1 | 12°31 | 21°42 | 15°55 | 9°13 | 3°37 | 14°27 | 6° 1 | 10°21 | 11°49 | 29° 8 | 2°42 | T 16 | |
| F 17 | 23 44 35 | 24°28'12 | 0♄25 | 23° 3 | 13°40 | 22°19 | 16° 8 | 9°17 | 3°40 | 14°28 | 6° 0 | 10°19 | 11°45 | 29°14 | 2°40 | F 17 | |
| S 18 | 23 48 31 | 25°26'27 | 13°42 | 22° 6 | 14°48 | 22°56 | 16°20 | 9°20 | 3°43 | 14°29 | 5°59 | 10°D18 | 11°42 | 29°21 | 2°38 | S 18 | |
| S 19 | 23 52 28 | 26°24'43 | 26°35 | 21°13 | 15°57 | 23°33 | 16°33 | 9°24 | 3°46 | 14°30 | 5°57 | 10°19 | 11°39 | 29°28 | 2°36 | S 19 | |
| M20 | 23 56 24 | 27°23'02 | 9♄16 | 20°25 | 17° 6 | 24°10 | 16°45 | 9°27 | 3°49 | 14°30 | 5°56 | 10°21 | 11°36 | 29°34 | 2°34 | M20 | |
| T 21 | 0 0 21 | 28°21'23 | 21°21 | 19°42 | 18°16 | 24°47 | 16°58 | 9°31 | 3°53 | 14°31 | 5°55 | 10°22 | 11°33 | 29°41 | 2°32 | T 21 | |
| W22 | 0 4 17 | 29°19'46 | 3♄22 | 19° 6 | 19°25 | 25°24 | 17°10 | 9°34 | 3°56 | 14°32 | 5°54 | 10°R22 | 11°30 | 29°48 | 2°29 | W22 | |
| T 23 | 0 8 14 | 0♄18'12 | 15°17 | 18°38 | 20°34 | 26° 0 | 17°23 | 9°37 | 3°59 | 14°33 | 5°53 | 10°21 | 11°26 | 29°55 | 2°27 | T 23 | |
| F 24 | 0 12 11 | 1°16'39 | 27° 9 | 18°19 | 21°44 | 26°37 | 17°36 | 9°40 | 4° 2 | 14°34 | 5°51 | 10°18 | 11°23 | 0♄ 1 | 2°25 | F 24 | |
| S 25 | 0 16 7 | 2°15'08 | 9♄ 2 | 18° 8 | 22°54 | 27°13 | 17°48 | 9°43 | 4° 6 | 14°35 | 5°50 | 10°13 | 11°20 | 0° 8 | 2°23 | S 25 | |
| S 26 | 0 20 4 | 3°13'39 | 21° 1 | 18°D 7 | 24° 4 | 27°50 | 18° 1 | 9°46 | 4° 9 | 14°35 | 5°49 | 10° 7 | 11°17 | 0°15 | 2°20 | S 26 | |
| M27 | 0 24 0 | 4°12'13 | 3♄ 9 | 18°16 | 25°14 | 28°26 | 18°14 | 9°49 | 4°13 | 14°36 | 5°48 | 10° 1 | 11°14 | 0°22 | 2°18 | M27 | |
| T 28 | 0 27 57 | 5°10'48 | 15°27 | 18°34 | 26°24 | 29° 2 | 18°27 | 9°52 | 4°16 | 14°37 | 5°47 | 9°54 | 11°10 | 0°28 | 2°16 | T 28 | |
| W29 | 0 31 53 | 6° 9'25 | 27°58 | 19° 1 | 27°34 | 29°38 | 18°39 | 9°54 | 4°19 | 14°37 | 5°45 | 9°49 | 11° 7 | 0°35 | 2°13 | W29 | |
| T 30 | 0 35 50 | 7♄ 8'04 | 10♄41 | 19♄37 | 28♄44 | 0♄13 | 18♄52 | 9♄57 | 4♄23 | 14♄38 | 5°Y44 | 9♄44 | 11♄ 4 | 0♄42 | 2♄11 | T 30 | |

Delta T = 17m51s

OCTOBER 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|--------|------|--------|-------|-------|-------|------|-------|------|-----|
| F 1 | 0 39 46 | 8♄6'45 | 23♄37 | 20♄23 | 29♄55 | 0♄49 | 19♄ 5 | 9♄59 | 4♄26 | 14♄39 | 5°R43 | 9°R42 | 11♄ 1 | 0♄48 | 2°R 9 | F 1 | |
| S 2 | 0 43 43 | 9° 5'28 | 6♄45 | 21°16 | 1♄ 5 | 1°24 | 19°18 | 10° 2 | 4°30 | 14°39 | 5°Y42 | 9°D41 | 10°58 | 0°55 | 2♄6 | S 2 | |
| S 3 | 0 47 39 | 10° 4'13 | 20° 6 | 22°17 | 2°16 | 2° 0 | 19°31 | 10° 4 | 4°33 | 14°40 | 5°41 | 9♄41 | 10°55 | 1° 2 | 2° 4 | S 3 | |
| M 4 | 0 51 36 | 11° 3'00 | 3♄38 | 23°25 | 3°27 | 2°35 | 19°44 | 10° 6 | 4°37 | 14°40 | 5°39 | 9°42 | 10°51 | 1° 9 | 2° 1 | M 4 | |
| T 5 | 0 55 33 | 12° 1'48 | 17°22 | 24°39 | 4°38 | 3°10 | 19°56 | 10° 8 | 4°40 | 14°41 | 5°38 | 9°44 | 10°48 | 1°15 | 1°58 | T 5 | |
| W 6 | 0 59 29 | 13° 0'38 | 1♄17 | 25°59 | 5°49 | 3°45 | 20° 9 | 10°10 | 4°44 | 14°41 | 5°37 | 9°45 | 10°45 | 1°22 | 1°56 | W 6 | |
| T 7 | 1 3 26 | 13°59'30 | 15°23 | 27°24 | 7° 0 | 4°20 | 20°22 | 10°11 | 4°48 | 14°41 | 5°36 | 9°R45 | 10°42 | 1°29 | 1°53 | T 7 | |
| F 8 | 1 7 22 | 14°58'24 | 29°37 | 28°53 | 8°11 | 4°54 | 20°35 | 10°13 | 4°51 | 14°42 | 5°35 | 9°45 | 10°39 | 1°35 | 1°51 | F 8 | |
| S 9 | 1 11 19 | 15°57'19 | 13♄58 | 0♄26 | 9°22 | 5°29 | 20°48 | 10°15 | 4°55 | 14°42 | 5°33 | 9°43 | 10°36 | 1°42 | 1°48 | S 9 | |
| S 10 | 1 15 15 | 16°56'15 | 28°22 | 2° 2 | 10°34 | 6° 3 | 21° 1 | 10°16 | 4°58 | 14°42 | 5°32 | 9°40 | 10°32 | 1°49 | 1°46 | S 10 | |
| M11 | 1 19 12 | 17°55'14 | 12♄44 | 3°40 | 11°45 | 6°38 | 21°14 | 10°17 | 5° 2 | 14°43 | 5°31 | 9°37 | 10°29 | 1°56 | 1°43 | M11 | |
| T 12 | 1 23 8 | 18°54'14 | 27° 0 | 5°21 | 12°57 | 7°12 | 21°27 | 10°19 | 5° 6 | 14°43 | 5°30 | 9°34 | 10°26 | 2° 2 | 1°40 | T 12 | |
| W13 | 1 27 5 | 19°53'16 | 11°Y 5 | 7° 3 | 14° 9 | 7°46 | 21°40 | 10°20 | 5° 9 | 14°43 | 5°29 | 9°32 | 10°23 | 2° 9 | 1°38 | W13 | |
| T 14 | 1 31 2 | 20°52'20 | 24°55 | 8°47 | 15°21 | 8°20 | 21°53 | 10°21 | 5°13 | 14°43 | 5°28 | 9°30 | 10°20 | 2°16 | 1°35 | T 14 | |
| F 15 | 1 34 58 | 21°51'26 | 8♄25 | 10°31 | 16°32 | 8°53 | 22° 6 | 10°22 | 5°17 | 14°43 | 5°26 | 9°D30 | 10°16 | 2°22 | 1°32 | F 15 | |
| S 16 | 1 38 55 | 22°50'34 | 21°36 | 12°16 | 17°44 | 9°27 | 22°19 | 10°22 | 5°21 | 14°43 | 5°25 | 9°30 | 10°13 | 2°29 | 1°29 | S 16 | |
| S 17 | 1 42 51 | 23°49'45 | 4♄26 | 14° 2 | 18°57 | 10° 0 | 22°32 | 10°23 | 5°24 | 14°43 | 5°24 | 9°31 | 10°10 | 2°36 | 1°27 | S 17 | |
| M18 | 1 46 48 | 24°48'57 | 16°57 | 15°48 | 20° 9 | 10°33 | 22°45 | 10°24 | 5°28 | 14°R43 | 5°23 | 9°32 | 10° 7 | 2°43 | 1°24 | M18 | |
| T 19 | 1 50 44 | 25°48'12 | 29°13 | 17°34 | 21°21 | 11° 6 | 22°58 | 10°24 | 5°32 | 14°43 | 5°22 | 9°34 | 10° 4 | 2°49 | 1°21 | T 19 | |
| W20 | 1 54 41 | 26°47'29 | 11♄17 | 19°19 | 22°33 | 11°39 | 23°11 | 10°24 | 5°35 | 14°43 | 5°21 | 9°35 | 10° 1 | 2°56 | 1°18 | W20 | |
| T 21 | 1 58 37 | 27°46'49 | 23°13 | 21° 5 | 23°46 | 12°12 | 23°24 | 10°25 | 5°39 | 14°43 | 5°20 | 9°R35 | 9°57 | 3° 3 | 1°16 | T 21 | |
| F 22 | 2 2 34 | 28°46'10 | 5♄ 5 | 22°50 | 24°58 | 12°44 | 23°37 | 10°25 | 5°43 | 14°43 | 5°19 | 9°35 | 9°54 | 3°10 | 1°13 | F 22 | |
| S 23 | 2 6 31 | 29°45'34 | 17° 0 | 24°35 | 26°11 | 13°17 | 23°50 | 10°R25 | 5°47 | 14°43 | 5°18 | 9°35 | 9°51 | 3°16 | 1°10 | S 23 | |
| S 24 | 2 10 27 | 0♄45'00 | 29° 0 | 26°19 | 27°24 | 13°49 | 24° 3 | 10°25 | 5°51 | 14°43 | 5°16 | 9°34 | 9°48 | 3°23 | 1° 7 | S 24 | |
| M25 | 2 14 24 | 1°44'29 | 11♄11 | 28° 3 | 28°36 | 14°21 | 24°15 | 10°25 | 5°54 | 14°42 | 5°15 | 9°33 | 9°45 | 3°30 | 1° 5 | M25 | |
| T 26 | 2 18 20 | 2°43'59 | 23°35 | 29°46 | 29°49 | 14°53 | 24°28 | 10°24 | 5°58 | 14°42 | 5°14 | 9°32 | 9°42 | 3°36 | 1° 2 | T 26 | |
| W27 | 2 22 17 | 3°43'32 | 6♄15 | 1♄29 | 1♄ 2 | 15°24 | 24°41 | 10°24 | 6° 2 | 14°42 | 5°13 | 9°31 | 9°38 | 3°43 | 0°59 | W27 | |
| T 28 | 2 26 13 | 4°43'06 | 19°13 | 3°11 | 2°15 | 15°56 | 24°54 | 10°23 | 6° 6 | 14°42 | 5°12 | 9°30 | 9°35 | 3°50 | 0°56 | T 28 | |
| F 29 | 2 30 10 | 5°42'43 | 2♄29 | 4°52 | 3°28 | 16°27 | 25° 7 | 10°23 | 6° 9 | 14°41 | 5°11 | 9°30 | 9°32 | 3°57 | 0°54 | F 29 | |
| S 30 | 2 34 6 | 6°42'22 | 16° 2 | 6°33 | 4°41 | 16°58 | 25°20 | 10°22 | 6°13 | 14°41 | 5°10 | 9°D30 | 9°29 | 4° 3 | 0°51 | S 30 | |
| S 31 | 2 38 3 | 7♄42'03 | 29♄49 | 8♄13 | 5♄55 | 17♄29 | 25♄33 | 10♄21 | 6♄17 | 14♄40 | 5°Y 9 | 9♄30 | 9♄26 | 4♄10 | 0♄48 | S 31 | |

Delta T = 17m51s

ASTRODIENST EPHEMERIS for the year 2562
geocentric

NOVEMBER 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|------|--------|-------|-------|------|------|--------|------|-----|
| M 1 | 2 42 0 | 8♍41'46 | 13♌49 | 9♍53 | 7♎ 8 | 18♏ 0 | 25♌46 | 10°R20 | 6♍21 | 14°R40 | 5°R 8 | 9♄30 | 9♄22 | 4♎17 | 0°R45 | M 1 | |
| T 2 | 2 45 56 | 9°41'31 | 27°57 | 11°32 | 8°21 | 18°30 | 25°58 | 10°E19 | 6°25 | 14°E39 | 5°Y 7 | 9°R30 | 9°19 | 4°23 | 0♄43 | T 2 | |
| W 3 | 2 49 53 | 10°41'17 | 12♌10 | 13°11 | 9°35 | 19° 0 | 26°11 | 10°18 | 6°28 | 14°39 | 5° 6 | 9°30 | 9°16 | 4°30 | 0°40 | W 3 | |
| T 4 | 2 53 49 | 11°41'05 | 26°25 | 14°49 | 10°48 | 19°30 | 26°24 | 10°16 | 6°32 | 14°38 | 5° 5 | 9°30 | 9°13 | 4°37 | 0°37 | T 4 | |
| F 5 | 2 57 46 | 12°40'55 | 10♌39 | 16°26 | 12° 2 | 20° 0 | 26°37 | 10°15 | 6°36 | 14°38 | 5° 5 | 9°D30 | 9°10 | 4°44 | 0°35 | F 5 | |
| S 6 | 3 1 42 | 13°40'46 | 24°50 | 18° 3 | 13°15 | 20°30 | 26°49 | 10°13 | 6°40 | 14°37 | 5° 4 | 9°30 | 9° 7 | 4°50 | 0°32 | S 6 | |
| S 7 | 3 5 39 | 14°40'38 | 8♌55 | 19°39 | 14°29 | 20°59 | 27° 2 | 10°12 | 6°43 | 14°37 | 5° 3 | 9°30 | 9° 3 | 4°57 | 0°29 | S 7 | |
| M 8 | 3 9 35 | 15°40'33 | 22°52 | 21°15 | 15°42 | 21°28 | 27°15 | 10°10 | 6°47 | 14°36 | 5° 2 | 9°31 | 9° 0 | 5° 4 | 0°27 | M 8 | |
| T 9 | 3 13 32 | 16°40'28 | 6♌39 | 22°51 | 16°56 | 21°57 | 27°27 | 10° 8 | 6°51 | 14°35 | 5° 1 | 9°32 | 8°57 | 5°11 | 0°24 | T 9 | |
| W10 | 3 17 29 | 17°40'26 | 20°16 | 24°25 | 18°10 | 22°26 | 27°40 | 10° 6 | 6°55 | 14°34 | 5° 0 | 9°32 | 8°54 | 5°17 | 0°21 | W10 | |
| T 11 | 3 21 25 | 18°40'25 | 3♌39 | 26° 0 | 19°24 | 22°54 | 27°53 | 10° 4 | 6°58 | 14°34 | 4°59 | 9°R33 | 8°51 | 5°24 | 0°19 | T 11 | |
| F 12 | 3 25 22 | 19°40'26 | 16°49 | 27°34 | 20°38 | 23°22 | 28° 5 | 10° 2 | 7° 2 | 14°33 | 4°59 | 9°33 | 8°48 | 5°31 | 0°16 | F 12 | |
| S 13 | 3 29 18 | 20°40'29 | 29°45 | 29° 8 | 21°52 | 23°50 | 28°18 | 10° 0 | 7° 6 | 14°32 | 4°58 | 9°32 | 8°44 | 5°37 | 0°14 | S 13 | |
| S 14 | 3 33 15 | 21°40'34 | 12♌25 | 0♌41 | 23° 6 | 24°18 | 28°30 | 9°57 | 7°10 | 14°31 | 4°57 | 9°31 | 8°41 | 5°44 | 0°11 | S 14 | |
| M15 | 3 37 11 | 22°40'41 | 24°51 | 2°14 | 24°20 | 24°45 | 28°43 | 9°55 | 7°13 | 14°30 | 4°56 | 9°29 | 8°38 | 5°51 | 0° 9 | M15 | |
| T 16 | 3 41 8 | 23°40'50 | 7♌ 5 | 3°46 | 25°34 | 25°12 | 28°55 | 9°52 | 7°17 | 14°29 | 4°56 | 9°27 | 8°35 | 5°58 | 0° 6 | T 16 | |
| W17 | 3 45 4 | 24°41'00 | 19° 8 | 5°18 | 26°48 | 25°39 | 29° 7 | 9°50 | 7°21 | 14°28 | 4°55 | 9°25 | 8°32 | 6° 4 | 0° 4 | W17 | |
| T 18 | 3 49 1 | 25°41'13 | 1♌ 4 | 6°50 | 28° 2 | 26° 6 | 29°20 | 9°47 | 7°24 | 14°27 | 4°54 | 9°23 | 8°28 | 6°11 | 0° 1 | T 18 | |
| F 19 | 3 52 58 | 26°41'27 | 12°56 | 8°21 | 29°16 | 26°32 | 29°32 | 9°44 | 7°28 | 14°26 | 4°53 | 9°21 | 8°25 | 6°18 | 29°Y59 | F 19 | |
| S 20 | 3 56 54 | 27°41'44 | 24°49 | 9°52 | 0♍31 | 26°58 | 29°44 | 9°41 | 7°32 | 14°25 | 4°53 | 9°D21 | 8°22 | 6°25 | 29°56 | S 20 | |
| S 21 | 4 0 51 | 28°42'02 | 6♍48 | 11°23 | 1°45 | 27°24 | 29°56 | 9°38 | 7°35 | 14°24 | 4°52 | 9°21 | 8°19 | 6°31 | 29°54 | S 21 | |
| M22 | 4 4 47 | 29°42'22 | 18°57 | 12°53 | 2°59 | 27°50 | 0♍ 8 | 9°35 | 7°39 | 14°23 | 4°52 | 9°22 | 8°16 | 6°38 | 29°52 | M22 | |
| T 23 | 4 8 44 | 0♌42'44 | 1♌21 | 14°23 | 4°14 | 28°15 | 0°20 | 9°32 | 7°42 | 14°22 | 4°51 | 9°23 | 8°13 | 6°45 | 29°49 | T 23 | |
| W24 | 4 12 40 | 1°43'08 | 14° 4 | 15°53 | 5°28 | 28°40 | 0°32 | 9°28 | 7°46 | 14°21 | 4°50 | 9°25 | 8° 9 | 6°51 | 29°47 | W24 | |
| T 25 | 4 16 37 | 2°43'34 | 27° 9 | 17°22 | 6°43 | 29° 4 | 0°44 | 9°25 | 7°49 | 14°20 | 4°50 | 9°26 | 8° 6 | 6°58 | 29°45 | T 25 | |
| F 26 | 4 20 33 | 3°44'02 | 10♍37 | 18°51 | 7°57 | 29°28 | 0°56 | 9°22 | 7°53 | 14°19 | 4°49 | 9°R27 | 8° 3 | 7° 5 | 29°43 | F 26 | |
| S 27 | 4 24 30 | 4°44'31 | 24°29 | 20°19 | 9°12 | 29°52 | 1° 8 | 9°18 | 7°56 | 14°17 | 4°49 | 9°26 | 8° 0 | 7°12 | 29°41 | S 27 | |
| S 28 | 4 28 27 | 5°45'02 | 8♌41 | 21°47 | 10°26 | 0♍16 | 1°20 | 9°14 | 8° 0 | 14°16 | 4°48 | 9°24 | 7°57 | 7°18 | 29°39 | S 28 | |
| M29 | 4 32 23 | 6°45'35 | 23°10 | 23°15 | 11°41 | 0°39 | 1°32 | 9°11 | 8° 3 | 14°15 | 4°48 | 9°20 | 7°54 | 7°25 | 29°36 | M29 | |
| T 30 | 4 36 20 | 7°46'09 | 7♌48 | 24°41 | 12♍56 | 1♍ 1 | 1♍43 | 9°E 7 | 8♍ 7 | 14°E14 | 4°Y47 | 9♄16 | 7♄50 | 7♄32 | 29°Y34 | T 30 | |

Delta T = 17m52s

DECEMBER 2562

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|------|------|-------|------|--------|-------|-------|------|-------|--------|------|-----|
| W 1 | 4 40 16 | 8♌46'45 | 22♌29 | 26♌ 8 | 14♍10 | 1♍24 | 1♍55 | 9°R 3 | 8♍10 | 14°R12 | 4°R47 | 9°R12 | 7♄47 | 7♄38 | 29°R32 | W 1 | |
| T 2 | 4 44 13 | 9°47'21 | 7♎ 5 | 27°33 | 15°25 | 1°46 | 2° 7 | 8°E59 | 8°14 | 14°E11 | 4°Y47 | 9°R 8 | 7°44 | 7°45 | 29°Y30 | T 2 | |
| F 3 | 4 48 9 | 10°47'59 | 21° 32 | 28°58 | 16°40 | 2° 8 | 2°18 | 8°55 | 8°17 | 14°10 | 4°46 | 9° 5 | 7°41 | 7°52 | 29°29 | F 3 | |
| S 4 | 4 52 6 | 11°48'37 | 5♌46 | 0♄22 | 17°55 | 2°29 | 2°29 | 8°51 | 8°20 | 14° 8 | 4°46 | 9°D 4 | 7°38 | 7°59 | 29°27 | S 4 | |
| S 5 | 4 56 3 | 12°49'17 | 19°43 | 1°45 | 19° 9 | 2°50 | 2°41 | 8°47 | 8°24 | 14° 7 | 4°45 | 9° 4 | 7°34 | 8° 5 | 29°25 | S 5 | |
| M 6 | 4 59 59 | 13°49'57 | 3°Y25 | 3° 7 | 20°24 | 3°10 | 2°52 | 8°43 | 8°27 | 14° 6 | 4°45 | 9° 5 | 7°31 | 8°12 | 29°23 | M 6 | |
| T 7 | 5 3 56 | 14°50'39 | 16°51 | 4°28 | 21°39 | 3°30 | 3° 3 | 8°38 | 8°30 | 14° 4 | 4°45 | 9° 7 | 7°28 | 8°19 | 29°21 | T 7 | |
| W 8 | 5 7 52 | 15°51'22 | 0♌ 4 | 5°47 | 22°54 | 3°50 | 3°14 | 8°34 | 8°33 | 14° 3 | 4°45 | 9° 8 | 7°25 | 8°26 | 29°20 | W 8 | |
| T 9 | 5 11 49 | 16°52'05 | 13° 3 | 7° 5 | 24° 9 | 4° 9 | 3°25 | 8°30 | 8°36 | 14° 1 | 4°44 | 9°R 8 | 7°22 | 8°32 | 29°18 | T 9 | |
| F 10 | 5 15 45 | 17°52'50 | 25°50 | 8°21 | 25°24 | 4°28 | 3°36 | 8°25 | 8°40 | 14° 0 | 4°44 | 9° 7 | 7°19 | 8°39 | 29°16 | F 10 | |
| S 11 | 5 19 42 | 18°53'36 | 8♌26 | 9°34 | 26°39 | 4°46 | 3°47 | 8°21 | 8°43 | 13°58 | 4°44 | 9° 3 | 7°15 | 8°46 | 29°15 | S 11 | |
| S 12 | 5 23 38 | 19°54'23 | 20°52 | 10°45 | 27°54 | 5° 4 | 3°58 | 8°16 | 8°46 | 13°57 | 4°44 | 8°58 | 7°12 | 8°52 | 29°13 | S 12 | |
| M13 | 5 27 35 | 20°55'11 | 3♌ 9 | 11°53 | 29° 9 | 5°22 | 4° 9 | 8°12 | 8°49 | 13°55 | 4°44 | 8°51 | 7° 9 | 8°59 | 29°12 | M13 | |
| T 14 | 5 31 32 | 21°56'01 | 15°16 | 12°58 | 0♌24 | 5°39 | 4°20 | 8° 7 | 8°52 | 13°54 | 4°43 | 8°42 | 7° 6 | 9° 6 | 29°10 | T 14 | |
| W15 | 5 35 28 | 22°56'51 | 27°16 | 13°59 | 1°39 | 5°55 | 4°30 | 8° 2 | 8°55 | 13°52 | 4°43 | 8°34 | 7° 3 | 9°13 | 29° 9 | W15 | |
| T 16 | 5 39 25 | 23°57'43 | 9♌11 | 14°56 | 2°54 | 6°11 | 4°41 | 7°58 | 8°58 | 13°51 | 4°43 | 8°25 | 7° 0 | 9°19 | 29° 8 | T 16 | |
| F 17 | 5 43 21 | 24°58'36 | 21° 2 | 15°47 | 4° 9 | 6°27 | 4°51 | 7°53 | 9° 1 | 13°49 | 4°43 | 8°18 | 6°56 | 9°26 | 29° 6 | F 17 | |
| S 18 | 5 47 18 | 25°59'30 | 2♍53 | 16°33 | 5°24 | 6°42 | 5° 1 | 7°48 | 9° 4 | 13°47 | 4°43 | 8°13 | 6°53 | 9°33 | 29° 5 | S 18 | |
| S 19 | 5 51 14 | 27° 0'25 | 14°49 | 17°12 | 6°39 | 6°56 | 5°12 | 7°43 | 9° 7 | 13°46 | 4°D43 | 8°10 | 6°50 | 9°40 | 29° 4 | S 19 | |
| M20 | 5 55 11 | 28° 1'21 | 26°55 | 17°44 | 7°54 | 7°10 | 5°22 | 7°39 | 9° 9 | 13°44 | 4°43 | 8°D 9 | 6°47 | 9°46 | 29° 3 | M20 | |
| T 21 | 5 59 7 | 29° 2'19 | 9♌14 | 18° 8 | 9° 9 | 7°24 | 5°32 | 7°34 | 9°12 | 13°43 | 4°43 | 8°10 | 6°44 | 9°53 | 29° 2 | T 21 | |
| W22 | 6 3 4 | 0♄ 3'17 | 21°52 | 18°23 | 10°24 | 7°37 | 5°42 | 7°29 | 9°15 | 13°41 | 4°43 | 8°11 | 6°40 | 10° 0 | 29° 1 | W22 | |
| T 23 | 6 7 1 | 1° 4'17 | 4♍54 | 18°R28 | 11°40 | 7°49 | 5°52 | 7°24 | 9°18 | 13°39 | 4°43 | 8°R12 | 6°37 | 10° 6 | 29° 0 | T 23 | |
| F 24 | 6 10 57 | 2° 5'17 | 18°23 | 18°23 | 12°55 | 8° 0 | 6° 1 | 7°19 | 9°20 | 13°38 | 4°43 | 8°11 | 6°34 | 10°13 | 28°59 | F 24 | |
| S 25 | 6 14 54 | 3° 6'19 | 2♌20 | 18° 6 | 14°10 | 8°12 | 6°11 | 7°14 | 9°23 | 13°36 | 4°44 | 8° 9 | 6°31 | 10°20 | 28°58 | S 25 | |
| S 26 | 6 18 50 | 4° 7'22 | 16°45 | 17°37 | 15°25 | 8°22 | 6°21 | 7° 9 | 9°26 | 13°34 | 4°44 | 8° 4 | 6°28 | 10°27 | 28°57 | S 26 | |
| M27 | 6 22 47 | 5° 8'25 | 1♄32 | 16°57 | 16°40 | 8°32 | 6°30 | 7° 4 | 9°28 | 13°33 | 4°44 | 7°56 | 6°25 | 10°33 | 28°56 | M27 | |
| T 28 | 6 26 43 | 6° 9'29 | 16°35 | 16° 6 | 17°56 | 8°41 | 6°39 | 6°59 | 9°31 | 13°31 | 4°44 | 7°47 | 6°21 | 10°40 | 28°56 | T 28 | |
| W29 | 6 30 40 | 7°10'34 | 1♌42 | 15° 5 | 19°11 | 8°50 | 6°49 | 6°54 | 9°33 | 13°29 | 4°44 | 7°38 | 6°18 | 10°47 | 28°55 | W29 | |
| T 30 | 6 34 37 | 8°11'39 | 16°45 | 13°55 | 20°26 | 8°57 | 6°58 | 6°49 | 9°35 | 13°28 | 4°45 | 7°29 | 6°15 | 10°54 | 28°54 | T 30 | |
| F 31 | 6 38 33 | 9♄12'44 | 1♌34 | 12♄38 | 21♌41 | 9♍ 5 | 7♍ 7 | 6°E44 | 9♍38 | 13°E26 | 4°Y45 | 7♄22 | 6♄12 | 11♌ 0 | 28°Y54 | F 31 | |

Delta T = 17m52s

ASTRODIENST EPHEMERIS for the year 2563
geocentric

JANUARY 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|-------|-------|--------|------|-------|------|-------|--------|------|---|---|---|---|---|---|---|-----|
| S 1 | 6 42 30 | 10♁13'49 | 16♋ 2 | 11°R17 | 22♁57 | 9♎11 | 7♎16 | 6°R39 | 9♎40 | 13°R24 | 4♎45 | 7°R17 | 6♁ 9 | 11♎ 7 | 28°R53 | S 1 | | | | | | | | |
| S 2 | 6 46 26 | 11°14'55 | 0♎ 6 | 9♁54 | 24°12 | 9°17 | 7°24 | 6♁35 | 9°42 | 13♁22 | 4°46 | 7♁14 | 6° 6 | 11°14 | 28°♎53 | S 2 | | | | | | | | |
| M 3 | 6 50 23 | 12°16'00 | 13°47 | 8°33 | 25°27 | 9°22 | 7°33 | 6°30 | 9°45 | 13°21 | 4°46 | 7°D14 | 6° 2 | 11°20 | 28°52 | M 3 | | | | | | | | |
| T 4 | 6 54 19 | 13°17'06 | 27° 5 | 7°15 | 26°42 | 9°27 | 7°42 | 6°25 | 9°47 | 13°19 | 4°46 | 7°14 | 5°59 | 11°27 | 28°52 | T 4 | | | | | | | | |
| W 5 | 6 58 16 | 14°18'12 | 10♁ 4 | 6° 4 | 27°58 | 9°31 | 7°50 | 6°20 | 9°49 | 13°17 | 4°47 | 7°R14 | 5°56 | 11°34 | 28°52 | W 5 | | | | | | | | |
| T 6 | 7 2 12 | 15°19'18 | 22°47 | 5° 0 | 29°13 | 9°34 | 7°58 | 6°15 | 9°51 | 13°16 | 4°47 | 7°13 | 5°53 | 11°41 | 28°52 | T 6 | | | | | | | | |
| F 7 | 7 6 9 | 16°20'23 | 5♎17 | 4° 6 | 0♁28 | 9°36 | 8° 7 | 6°10 | 9°53 | 13°14 | 4°48 | 7°10 | 5°50 | 11°47 | 28°52 | F 7 | | | | | | | | |
| S 8 | 7 10 6 | 17°21'29 | 17°37 | 3°22 | 1°44 | 9°37 | 8°15 | 6° 5 | 9°55 | 13°12 | 4°48 | 7° 3 | 5°46 | 11°54 | 28°51 | S 8 | | | | | | | | |
| S 9 | 7 14 2 | 18°22'35 | 29°49 | 2°49 | 2°59 | 9°38 | 8°22 | 6° 1 | 9°57 | 13°11 | 4°49 | 6°54 | 5°43 | 12° 1 | 28°D51 | S 9 | | | | | | | | |
| M10 | 7 17 59 | 19°23'42 | 11♁54 | 2°26 | 4°14 | 9°R38 | 8°30 | 5°56 | 9°59 | 13° 9 | 4°49 | 6°42 | 5°40 | 12° 7 | 28°51 | M10 | | | | | | | | |
| T 11 | 7 21 55 | 20°24'48 | 23°54 | 2°13 | 5°30 | 9°38 | 8°38 | 5°51 | 10° 1 | 13° 7 | 4°50 | 6°28 | 5°37 | 12°14 | 28°52 | T 11 | | | | | | | | |
| W12 | 7 25 52 | 21°25'54 | 5♎50 | 2°D10 | 6°45 | 9°36 | 8°45 | 5°46 | 10° 3 | 13° 6 | 4°50 | 6°14 | 5°34 | 12°21 | 28°52 | W12 | | | | | | | | |
| T 13 | 7 29 48 | 22°27'00 | 17°42 | 2°15 | 8° 0 | 9°34 | 8°53 | 5°42 | 10° 4 | 13° 4 | 4°51 | 6° 0 | 5°31 | 12°28 | 28°52 | T 13 | | | | | | | | |
| F 14 | 7 33 45 | 23°28'07 | 29°34 | 2°29 | 9°16 | 9°31 | 9° 0 | 5°37 | 10° 6 | 13° 2 | 4°51 | 5°47 | 5°27 | 12°34 | 28°52 | F 14 | | | | | | | | |
| S 15 | 7 37 41 | 24°29'13 | 11♎26 | 2°51 | 10°31 | 9°27 | 9° 7 | 5°33 | 10° 8 | 13° 1 | 4°52 | 5°38 | 5°24 | 12°41 | 28°52 | S 15 | | | | | | | | |
| S 16 | 7 41 38 | 25°30'20 | 23°22 | 3°20 | 11°46 | 9°22 | 9°14 | 5°28 | 10° 9 | 12°59 | 4°53 | 5°31 | 5°21 | 12°48 | 28°53 | S 16 | | | | | | | | |
| M17 | 7 45 35 | 26°31'26 | 5♁25 | 3°54 | 13° 2 | 9°17 | 9°21 | 5°24 | 10°11 | 12°57 | 4°53 | 5°27 | 5°18 | 12°55 | 28°53 | M17 | | | | | | | | |
| T 18 | 7 49 31 | 27°32'33 | 17°40 | 4°35 | 14°17 | 9°10 | 9°28 | 5°19 | 10°12 | 12°56 | 4°54 | 5°25 | 5°15 | 13° 1 | 28°54 | T 18 | | | | | | | | |
| W19 | 7 53 28 | 28°33'40 | 0♎13 | 5°20 | 15°32 | 9° 3 | 9°34 | 5°15 | 10°14 | 12°54 | 4°55 | 5°25 | 5°12 | 13° 8 | 28°54 | W19 | | | | | | | | |
| T 20 | 7 57 24 | 29°34'47 | 13° 7 | 6°10 | 16°48 | 8°55 | 9°41 | 5°11 | 10°15 | 12°52 | 4°55 | 5°25 | 5° 8 | 13°15 | 28°55 | T 20 | | | | | | | | |
| F 21 | 8 1 21 | 0♁35'54 | 26°28 | 7° 4 | 18° 3 | 8°46 | 9°47 | 5° 6 | 10°17 | 12°51 | 4°56 | 5°24 | 5° 5 | 13°21 | 28°55 | F 21 | | | | | | | | |
| S 22 | 8 5 17 | 1°37'01 | 10♁18 | 8° 1 | 19°18 | 8°37 | 9°53 | 5° 2 | 10°18 | 12°49 | 4°57 | 5°20 | 5° 2 | 13°28 | 28°56 | S 22 | | | | | | | | |
| S 23 | 8 9 14 | 2°38'08 | 24°39 | 9° 2 | 20°34 | 8°26 | 9°59 | 4°58 | 10°19 | 12°48 | 4°58 | 5°14 | 4°59 | 13°35 | 28°57 | S 23 | | | | | | | | |
| M24 | 8 13 10 | 3°39'15 | 9♁27 | 10° 6 | 21°49 | 8°15 | 10° 5 | 4°54 | 10°20 | 12°46 | 4°59 | 5° 5 | 4°56 | 13°42 | 28°58 | M24 | | | | | | | | |
| T 25 | 8 17 7 | 4°40'21 | 24°36 | 11°12 | 23° 4 | 8° 3 | 10°10 | 4°50 | 10°21 | 12°44 | 5° 0 | 4°54 | 4°52 | 13°48 | 28°58 | T 25 | | | | | | | | |
| W26 | 8 21 4 | 5°41'28 | 9♁57 | 12°20 | 24°20 | 7°50 | 10°16 | 4°46 | 10°23 | 12°43 | 5° 0 | 4°42 | 4°49 | 13°55 | 28°59 | W26 | | | | | | | | |
| T 27 | 8 25 0 | 6°42'33 | 25°17 | 13°31 | 25°35 | 7°37 | 10°21 | 4°42 | 10°24 | 12°41 | 5° 1 | 4°31 | 4°46 | 14° 2 | 29° 0 | T 27 | | | | | | | | |
| F 28 | 8 28 57 | 7°43'38 | 10♁24 | 14°44 | 26°51 | 7°22 | 10°26 | 4°39 | 10°25 | 12°40 | 5° 2 | 4°21 | 4°43 | 14° 8 | 29° 1 | F 28 | | | | | | | | |
| S 29 | 8 32 53 | 8°44'42 | 25°11 | 15°58 | 28° 6 | 7° 7 | 10°31 | 4°35 | 10°25 | 12°38 | 5° 3 | 4°14 | 4°40 | 14°15 | 29° 2 | S 29 | | | | | | | | |
| S 30 | 8 36 50 | 9°45'46 | 9♎30 | 17°14 | 29°21 | 6°51 | 10°36 | 4°31 | 10°26 | 12°37 | 5° 4 | 4°10 | 4°37 | 14°22 | 29° 4 | S 30 | | | | | | | | |
| M31 | 8 40 46 | 10♁46'48 | 23°♎20 | 18♁31 | 0♁37 | 6♎35 | 10♎41 | 4♁28 | 10♎27 | 12♁35 | 5♎ 5 | 4♁ 9 | 4♁33 | 14♎29 | 29♎ 5 | M31 | | | | | | | | |

Delta T = 17m52s

FEBRUARY 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|--------|------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| T 1 | 8 44 43 | 11♁47'49 | 6♁43 | 19♁50 | 1♁52 | 6°R17 | 10♎45 | 4°R24 | 10♎28 | 12°R34 | 5♎ 6 | 4°R 8 | 4♁30 | 14♎35 | 29♎ 6 | T 1 | | | | | | | | |
| W 2 | 8 48 39 | 12°48'50 | 19°42 | 21°10 | 3° 7 | 6°R 0 | 10°49 | 4♁21 | 10°29 | 12♁33 | 5° 7 | 4♁ 8 | 4°27 | 14°42 | 29° 7 | W 2 | | | | | | | | |
| T 3 | 8 52 36 | 13°49'50 | 2♎20 | 22°31 | 4°23 | 5°41 | 10°54 | 4°18 | 10°29 | 12°31 | 5° 8 | 4° 7 | 4°24 | 14°49 | 29° 9 | T 3 | | | | | | | | |
| F 4 | 8 56 33 | 14°50'48 | 14°42 | 23°53 | 5°38 | 5°22 | 10°58 | 4°15 | 10°30 | 12°30 | 5° 9 | 4° 4 | 4°21 | 14°56 | 29°10 | F 4 | | | | | | | | |
| S 5 | 9 0 29 | 15°51'46 | 26°53 | 25°16 | 6°53 | 5° 2 | 11° 1 | 4°12 | 10°30 | 12°28 | 5°10 | 3°57 | 4°18 | 15° 2 | 29°11 | S 5 | | | | | | | | |
| S 6 | 9 4 26 | 16°52'42 | 8♁55 | 26°41 | 8° 9 | 4°42 | 11° 5 | 4° 9 | 10°31 | 12°27 | 5°11 | 3°48 | 4°14 | 15° 9 | 29°13 | S 6 | | | | | | | | |
| M 7 | 9 8 22 | 17°53'38 | 20°52 | 28° 6 | 9°24 | 4°21 | 11° 8 | 4° 6 | 10°31 | 12°26 | 5°12 | 3°36 | 4°11 | 15°16 | 29°15 | M 7 | | | | | | | | |
| T 8 | 9 12 19 | 18°54'32 | 2♎46 | 29°32 | 10°39 | 4° 0 | 11°12 | 4° 3 | 10°31 | 12°24 | 5°13 | 3°23 | 4° 8 | 15°22 | 29°16 | T 8 | | | | | | | | |
| W 9 | 9 16 15 | 19°55'25 | 14°39 | 0♁59 | 11°55 | 3°38 | 11°15 | 4° 0 | 10°32 | 12°23 | 5°15 | 3° 9 | 4° 5 | 15°29 | 29°18 | W 9 | | | | | | | | |
| T 10 | 9 20 12 | 20°56'18 | 26°32 | 2°26 | 13°10 | 3°16 | 11°18 | 3°58 | 10°32 | 12°22 | 5°16 | 2°55 | 4° 2 | 15°36 | 29°19 | T 10 | | | | | | | | |
| F 11 | 9 24 8 | 21°57'09 | 8♎25 | 3°55 | 14°25 | 2°53 | 11°21 | 3°55 | 10°32 | 12°21 | 5°17 | 2°42 | 3°58 | 15°43 | 29°21 | F 11 | | | | | | | | |
| S 12 | 9 28 5 | 22°57'59 | 20°22 | 5°25 | 15°40 | 2°31 | 11°23 | 3°53 | 10°32 | 12°19 | 5°18 | 2°32 | 3°55 | 15°49 | 29°23 | S 12 | | | | | | | | |
| S 13 | 9 32 2 | 23°58'49 | 2♁23 | 6°55 | 16°56 | 2° 7 | 11°26 | 3°51 | 10°32 | 12°18 | 5°19 | 2°25 | 3°52 | 15°56 | 29°25 | S 13 | | | | | | | | |
| M14 | 9 35 58 | 24°59'37 | 14°31 | 8°26 | 18°11 | 1°44 | 11°28 | 3°48 | 10°R32 | 12°17 | 5°20 | 2°21 | 3°49 | 16° 3 | 29°27 | M14 | | | | | | | | |
| T 15 | 9 39 55 | 26° 0'25 | 26°50 | 9°58 | 19°26 | 1°20 | 11°30 | 3°46 | 10°32 | 12°16 | 5°22 | 2°D20 | 3°46 | 16° 9 | 29°29 | T 15 | | | | | | | | |
| W16 | 9 43 51 | 27° 1'11 | 9♎23 | 11°30 | 20°41 | 0°57 | 11°32 | 3°44 | 10°32 | 12°15 | 5°23 | 2°20 | 3°43 | 16°16 | 29°31 | W16 | | | | | | | | |
| T 17 | 9 47 48 | 28° 1'57 | 22°14 | 13° 4 | 21°57 | 0°33 | 11°33 | 3°42 | 10°32 | 12°14 | 5°24 | 2°R20 | 3°39 | 16°23 | 29°33 | T 17 | | | | | | | | |
| F 18 | 9 51 44 | 29° 2'42 | 5♁28 | 14°38 | 23°12 | 0° 9 | 11°35 | 3°41 | 10°32 | 12°13 | 5°25 | 2°20 | 3°36 | 16°30 | 29°35 | F 18 | | | | | | | | |
| S 19 | 9 55 41 | 0♁ 3'26 | 19° 8 | 16°13 | 24°27 | 29♎45 | 11°36 | 3°39 | 10°32 | 12°12 | 5°27 | 2°19 | 3°33 | 16°36 | 29°37 | S 19 | | | | | | | | |
| S 20 | 9 59 37 | 1° 4'09 | 3♁15 | 17°49 | 25°43 | 29°21 | 11°37 | 3°37 | 10°31 | 12°11 | 5°28 | 2°15 | 3°30 | 16°43 | 29°39 | S 20 | | | | | | | | |
| M21 | 10 3 34 | 2° 4'51 | 17°49 | 19°25 | 26°58 | 28°57 | 11°38 | 3°36 | 10°31 | 12°10 | 5°29 | 2° 8 | 3°27 | 16°50 | 29°41 | M21 | | | | | | | | |
| T 22 | 10 7 31 | 3° 5'32 | 2♁46 | 21° 3 | 28°13 | 28°33 | 11°39 | 3°35 | 10°30 | 12° 9 | 5°30 | 2° 0 | 3°24 | 16°57 | 29°43 | T 22 | | | | | | | | |
| W23 | 10 11 27 | 4° 6'12 | 17°59 | 22°41 | 29°28 | 28° 9 | 11°39 | 3°33 | 10°30 | 12° 8 | 5°32 | 1°51 | 3°20 | 17° 3 | 29°46 | W23 | | | | | | | | |
| T 24 | 10 15 24 | 5° 6'50 | 3♁16 | 24°20 | 0♁43 | 27°46 | 11°40 | 3°32 | 10°29 | 12° 7 | 5°33 | 1°42 | 3°17 | 17°10 | 29°48 | T 24 | | | | | | | | |
| F 25 | 10 19 20 | 6° 7'27 | 18°27 | 26° 0 | 1°59 | 27°23 | 11°R40 | 3°31 | 10°29 | 12° 6 | 5°34 | 1°34 | 3°14 | 17°17 | 29°50 | F 25 | | | | | | | | |
| S 26 | 10 23 17 | 7° 8'03 | 3♎21 | 27°41 | 3°14 | 27° 0 | 11°40 | 3°30 | 10°28 | 12° 5 | 5°36 | 1°29 | 3°11 | 17°23 | 29°53 | S 26 | | | | | | | | |
| S 27 | 10 27 13 | 8° 8'36 | 17°51 | 29°23 | 4°29 | 26°37 | 11°39 | 3°30 | 10°28 | 12° 4 | 5°37 | 1°26 | 3° 8 | 17°30 | 29°55 | S 27 | | | | | | | | |
| M28 | 10 31 10 | 9♁ 9'09 | 1♁53 | 1♁ 5 | 5♁44 | 26♎15 | 11♎39 | 3♁29 | 10♎27 | 12♁ 4 | 5♎39 | 1°D25 | 3♁ 4 | 17♎37 | 29♎58 | M28 | | | | | | | | |

Delta T = 17m52s

ASTRODIENST EPHEMERIS for the year 2563
geocentric

MARCH 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------|-------|--------|--------|--------|--------|-------|--------|--------|-------|-------|------|-------|------|------|-----|
| T 1 | 10 35 6 | 10♈ 9'39 | 15♉26 | 2♊49 | 6♋59 | 25°R53 | 11°R38 | 3°R28 | 10°R26 | 12°R 3 | 5°P40 | 1♁26 | 3♁ 1 | 17♌44 | 0♁ 0 | T 1 | |
| W 2 | 10 39 3 | 11°10'08 | 28°33 | 4°33 | 8°14 | 25♌32 | 11♍38 | 3♎28 | 10♏25 | 12♐ 2 | 5°41 | 1°27 | 2°58 | 17°50 | 0° 3 | W 2 | |
| T 3 | 10 43 0 | 12°10'34 | 11♎15 | 6°19 | 9°30 | 25°11 | 11°37 | 3°28 | 10°24 | 12° 1 | 5°43 | 1°R27 | 2°55 | 17°57 | 0° 6 | T 3 | |
| F 4 | 10 46 56 | 13°10'59 | 23°39 | 8° 5 | 10°45 | 24°51 | 11°35 | 3°27 | 10°23 | 12° 1 | 5°44 | 1°27 | 2°52 | 18° 4 | 0° 8 | F 4 | |
| S 5 | 10 50 53 | 14°11'22 | 5♏48 | 9°53 | 12° 0 | 24°31 | 11°34 | 3°D27 | 10°22 | 12° 0 | 5°46 | 1°24 | 2°49 | 18°10 | 0°11 | S 5 | |
| S 6 | 10 54 49 | 15°11'44 | 17°47 | 11°41 | 13°15 | 24°12 | 11°32 | 3°27 | 10°21 | 12° 0 | 5°47 | 1°19 | 2°45 | 18°17 | 0°14 | S 6 | |
| M 7 | 10 58 46 | 16°12'03 | 29°41 | 13°30 | 14°30 | 23°54 | 11°31 | 3°27 | 10°20 | 11°59 | 5°49 | 1°13 | 2°42 | 18°24 | 0°16 | M 7 | |
| T 8 | 11 2 42 | 17°12'20 | 11♐23 | 15°20 | 15°45 | 23°36 | 11°29 | 3°28 | 10°19 | 11°58 | 5°50 | 1° 5 | 2°39 | 18°31 | 0°19 | T 8 | |
| W 9 | 11 6 39 | 18°12'36 | 23°24 | 17°11 | 17° 0 | 23°18 | 11°27 | 3°28 | 10°18 | 11°58 | 5°51 | 0°56 | 2°36 | 18°37 | 0°22 | W 9 | |
| T 10 | 11 10 35 | 19°12'50 | 5♑19 | 19° 4 | 18°15 | 23° 2 | 11°24 | 3°29 | 10°16 | 11°58 | 5°53 | 0°48 | 2°33 | 18°44 | 0°25 | T 10 | |
| F 11 | 11 14 32 | 20°13'02 | 17°18 | 20°57 | 19°30 | 22°46 | 11°22 | 3°29 | 10°15 | 11°57 | 5°54 | 0°41 | 2°29 | 18°51 | 0°28 | F 11 | |
| S 12 | 11 18 29 | 21°13'12 | 29°22 | 22°50 | 20°45 | 22°31 | 11°19 | 3°30 | 10°14 | 11°57 | 5°56 | 0°35 | 2°26 | 18°57 | 0°31 | S 12 | |
| S 13 | 11 22 25 | 22°13'20 | 11♒34 | 24°45 | 22° 0 | 22°17 | 11°16 | 3°31 | 10°12 | 11°56 | 5°57 | 0°31 | 2°23 | 19° 4 | 0°34 | S 13 | |
| M14 | 11 26 22 | 23°13'27 | 23°55 | 26°40 | 23°15 | 22° 3 | 11°13 | 3°32 | 10°11 | 11°56 | 5°59 | 0°29 | 2°20 | 19°11 | 0°37 | M14 | |
| T 15 | 11 30 18 | 24°13'32 | 6♒26 | 28°36 | 24°30 | 21°50 | 11°10 | 3°33 | 10° 9 | 11°56 | 6° 0 | 0°D29 | 2°17 | 19°18 | 0°40 | T 15 | |
| W16 | 11 34 15 | 25°13'35 | 19°10 | 0°P33 | 25°45 | 21°38 | 11° 7 | 3°34 | 10° 8 | 11°55 | 6° 2 | 0°30 | 2°14 | 19°24 | 0°43 | W16 | |
| T 17 | 11 38 11 | 26°13'37 | 2♉ 8 | 2°29 | 27° 0 | 21°26 | 11° 3 | 3°35 | 10° 6 | 11°55 | 6° 3 | 0°32 | 2°10 | 19°31 | 0°46 | T 17 | |
| F 18 | 11 42 8 | 27°13'38 | 15°25 | 4°26 | 28°15 | 21°16 | 11° 0 | 3°36 | 10° 5 | 11°55 | 6° 5 | 0°33 | 2° 7 | 19°38 | 0°49 | F 18 | |
| S 19 | 11 46 4 | 28°13'37 | 29° 1 | 6°23 | 29°30 | 21° 6 | 10°56 | 3°38 | 10° 3 | 11°55 | 6° 6 | 0°R34 | 2° 4 | 19°44 | 0°52 | S 19 | |
| S 20 | 11 50 1 | 29°13'34 | 12♊58 | 8°20 | 0°P45 | 20°57 | 10°52 | 3°39 | 10° 1 | 11°55 | 6° 8 | 0°33 | 2° 1 | 19°51 | 0°55 | S 20 | |
| M21 | 11 53 58 | 0°P30 | 27°16 | 10°16 | 1°59 | 20°49 | 10°47 | 3°41 | 10° 0 | 11°55 | 6° 9 | 0°31 | 1°58 | 19°58 | 0°58 | M21 | |
| T 22 | 11 57 54 | 1°13'24 | 11♌52 | 12°11 | 3°14 | 20°41 | 10°43 | 3°43 | 9°58 | 11°55 | 6°11 | 0°28 | 1°55 | 20° 5 | 1° 1 | T 22 | |
| W23 | 12 1 51 | 2°13'16 | 26°42 | 14° 5 | 4°29 | 20°34 | 10°38 | 3°45 | 9°56 | 11°D55 | 6°12 | 0°24 | 1°51 | 20°11 | 1° 5 | W23 | |
| T 24 | 12 5 47 | 3°13'07 | 11♍38 | 15°58 | 5°44 | 20°28 | 10°34 | 3°47 | 9°54 | 11°55 | 6°14 | 0°20 | 1°48 | 20°18 | 1° 8 | T 24 | |
| F 25 | 12 9 44 | 4°12'56 | 26°33 | 17°48 | 6°59 | 20°23 | 10°29 | 3°49 | 9°52 | 11°55 | 6°15 | 0°16 | 1°45 | 20°25 | 1°11 | F 25 | |
| S 26 | 12 13 40 | 5°12'43 | 11♎17 | 19°36 | 8°14 | 20°19 | 10°24 | 3°51 | 9°50 | 11°55 | 6°17 | 0°14 | 1°42 | 20°31 | 1°14 | S 26 | |
| S 27 | 12 17 37 | 6°12'28 | 25°44 | 21°22 | 9°28 | 20°15 | 10°19 | 3°53 | 9°48 | 11°55 | 6°18 | 0°D13 | 1°39 | 20°38 | 1°18 | S 27 | |
| M28 | 12 21 33 | 7°12'11 | 9♏48 | 23° 4 | 10°43 | 20°13 | 10°13 | 3°56 | 9°46 | 11°55 | 6°20 | 0°13 | 1°35 | 20°45 | 1°21 | M28 | |
| T 29 | 12 25 30 | 8°11'51 | 23°26 | 24°42 | 11°58 | 20°11 | 10° 8 | 3°58 | 9°44 | 11°55 | 6°21 | 0°14 | 1°32 | 20°52 | 1°24 | T 29 | |
| W30 | 12 29 27 | 9°11'30 | 6♑39 | 26°15 | 13°13 | 20° 9 | 10° 2 | 4° 1 | 9°42 | 11°55 | 6°23 | 0°16 | 1°29 | 20°58 | 1°28 | W30 | |
| T 31 | 12 33 23 | 10°P11'07 | 19♒28 | 27°P44 | 14°P27 | 20°D 9 | 9♓57 | 4♎ 4 | 9♌40 | 11♎56 | 6°P25 | 0♁17 | 1♁26 | 21♌ 5 | 1♁31 | T 31 | |

Delta T = 17m53s

APRIL 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------|-------|--------|--------|--------|-------|------|-------|-------|-------|-------|--------|--------|------|------|-----|
| F 1 | 12 37 20 | 11°P10'41 | 1♎57 | 29°P 8 | 15°P42 | 20°Ω 9 | 9°R51 | 4♎ 7 | 9°R38 | 11♎56 | 6°P26 | 0♁18 | 1♁23 | 21♌12 | 1♁35 | F 1 | |
| S 2 | 12 41 16 | 12°10'13 | 14°10 | 0♁26 | 16°57 | 20°10 | 9♌45 | 4°10 | 9♌36 | 11°56 | 6°28 | 0°R18 | 1°20 | 21°18 | 1°38 | S 2 | |
| S 3 | 12 45 13 | 13° 9'43 | 26°11 | 1°39 | 18°11 | 20°12 | 9°39 | 4°13 | 9°34 | 11°57 | 6°29 | 0°18 | 1°16 | 21°25 | 1°41 | S 3 | |
| M 4 | 12 49 9 | 14° 9'10 | 8♏ 5 | 2°45 | 19°26 | 20°14 | 9°33 | 4°16 | 9°32 | 11°57 | 6°31 | 0°17 | 1°13 | 21°32 | 1°45 | M 4 | |
| T 5 | 12 53 6 | 15° 8'35 | 19°57 | 3°44 | 20°40 | 20°17 | 9°26 | 4°19 | 9°29 | 11°57 | 6°32 | 0°15 | 1°10 | 21°39 | 1°48 | T 5 | |
| W 6 | 12 57 2 | 16° 7'58 | 1♐49 | 4°37 | 21°55 | 20°21 | 9°20 | 4°22 | 9°27 | 11°58 | 6°34 | 0°13 | 1° 7 | 21°45 | 1°52 | W 6 | |
| T 7 | 13 0 59 | 17° 7'19 | 13°47 | 5°23 | 23° 9 | 20°25 | 9°13 | 4°26 | 9°25 | 11°58 | 6°35 | 0°10 | 1° 4 | 21°52 | 1°55 | T 7 | |
| F 8 | 13 4 55 | 18° 6'37 | 25°52 | 6° 1 | 24°24 | 20°31 | 9° 7 | 4°29 | 9°22 | 11°59 | 6°37 | 0° 9 | 1° 1 | 21°59 | 1°59 | F 8 | |
| S 9 | 13 8 52 | 19° 5'54 | 8♒ 6 | 6°32 | 25°38 | 20°36 | 9° 0 | 4°33 | 9°20 | 11°59 | 6°38 | 0° 7 | 0°57 | 22° 5 | 2° 2 | S 9 | |
| S 10 | 13 12 49 | 20° 5'08 | 20°32 | 6°56 | 26°53 | 20°43 | 8°53 | 4°37 | 9°18 | 12° 0 | 6°40 | 0° 7 | 0°54 | 22°12 | 2° 6 | S 10 | |
| M11 | 13 16 45 | 21° 4'20 | 3♌10 | 7°13 | 28° 7 | 20°50 | 8°46 | 4°41 | 9°15 | 12° 1 | 6°41 | 0°D 7 | 0°51 | 22°19 | 2° 9 | M11 | |
| T 12 | 13 20 42 | 22° 3'31 | 16° 1 | 7°22 | 29°22 | 20°57 | 8°39 | 4°44 | 9°13 | 12° 1 | 6°43 | 0° 7 | 0°48 | 22°26 | 2°13 | T 12 | |
| W13 | 13 24 38 | 23° 2'39 | 29° 5 | 7°R24 | 0♁36 | 21° 6 | 8°32 | 4°48 | 9°11 | 12° 2 | 6°44 | 0° 7 | 0°45 | 22°32 | 2°16 | W13 | |
| T 14 | 13 28 35 | 24° 1'46 | 12♉22 | 7°20 | 1°51 | 21°15 | 8°25 | 4°53 | 9° 8 | 12° 3 | 6°46 | 0° 8 | 0°41 | 22°39 | 2°20 | T 14 | |
| F 15 | 13 32 31 | 25° 0'51 | 25°53 | 7° 8 | 3° 5 | 21°24 | 8°17 | 4°57 | 9° 6 | 12° 3 | 6°47 | 0° 9 | 0°38 | 22°46 | 2°23 | F 15 | |
| S 16 | 13 36 28 | 25°59'54 | 9♊38 | 6°51 | 4°19 | 21°34 | 8°10 | 5° 1 | 9° 3 | 12° 4 | 6°48 | 0° 9 | 0°35 | 22°52 | 2°27 | S 16 | |
| S 17 | 13 40 24 | 26°58'56 | 23°35 | 6°27 | 5°34 | 21°45 | 8° 3 | 5° 5 | 9° 1 | 12° 5 | 6°50 | 0°R 9 | 0°32 | 22°59 | 2°31 | S 17 | |
| M18 | 13 44 21 | 27°57'56 | 7♌45 | 5°59 | 6°48 | 21°56 | 7°55 | 5°10 | 8°58 | 12° 6 | 6°51 | 0° 9 | 0°29 | 23° 6 | 2°34 | M18 | |
| T 19 | 13 48 18 | 28°56'54 | 22° 4 | 5°26 | 8° 2 | 22° 7 | 7°48 | 5°14 | 8°56 | 12° 7 | 6°53 | 0° 9 | 0°26 | 23°13 | 2°38 | T 19 | |
| W20 | 13 52 14 | 29°55'51 | 6♋30 | 4°49 | 9°16 | 22°19 | 7°40 | 5°19 | 8°53 | 12° 8 | 6°54 | 0°D 9 | 0°22 | 23°19 | 2°41 | W20 | |
| T 21 | 13 56 11 | 0♁54'45 | 20°59 | 4° 8 | 10°31 | 22°32 | 7°33 | 5°24 | 8°51 | 12° 9 | 6°56 | 0° 9 | 0°19 | 23°26 | 2°45 | T 21 | |
| F 22 | 14 0 7 | 1°53'38 | 5°P26 | 3°26 | 11°45 | 22°45 | 7°25 | 5°28 | 8°48 | 12°10 | 6°57 | 0° 9 | 0°16 | 23°33 | 2°49 | F 22 | |
| S 23 | 14 4 4 | 2°52'29 | 19°46 | 2°42 | 12°59 | 22°59 | 7°18 | 5°33 | 8°46 | 12°11 | 6°58 | 0° 9 | 0°13 | 23°39 | 2°52 | S 23 | |
| S 24 | 14 8 0 | 3°51'18 | 3♁54 | 1°57 | 14°13 | 23°13 | 7°10 | 5°38 | 8°43 | 12°12 | 7° 0 | 0°R 9 | 0°10 | 23°46 | 2°56 | S 24 | |
| M25 | 14 11 57 | 4°50'06 | 17°46 | 1°13 | 15°27 | 23°28 | 7° 2 | 5°43 | 8°40 | 12°13 | 7° 1 | 0° 9 | 0° 6 | 23°53 | 2°59 | M25 | |
| T 26 | 14 15 53 | 5°48'51 | 1♒18 | 0°30 | 16°42 | 23°43 | 6°55 | 5°48 | 8°38 | 12°14 | 7° 3 | 0° 9 | 0° 3 | 24° 0 | 3° 3 | T 26 | |
| W27 | 14 19 50 | 6°47'34 | 14°29 | 29°P49 | 17°56 | 23°59 | 6°47 | 5°54 | 8°35 | 12°15 | 7° 4 | 0° 8 | 0° 0 | 24° 6 | 3° 7 | W27 | |
| T 28 | 14 23 47 | 7°46'15 | 27°20 | 29°10 | 19°10 | 24°15 | 6°39 | 5°59 | 8°33 | 12°16 | 7° 5 | 0° 7 | 29°P57 | 24°13 | 3°10 | T 28 | |
| F 29 | 14 27 43 | 8°44'55 | 9♎52 | 28°34 | 20°24 | 24°31 | 6°32 | 6° 4 | 8°30 | 12°17 | 7° 7 | 0° 6 | 29°54 | 24°20 | 3°14 | F 29 | |
| S 30 | 14 31 40 | 9♏43'32 | 22♎ 8 | 28°P 1 | 21♁38 | 24°Ω48 | 6♌24 | 6♎10 | 8♌28 | 12♎18 | 7°P 8 | 0♁ 5 | 29°P51 | 24°Ω26 | 3♁17 | S 30 | |

Delta T = 17m53s

ASTRODIENST EPHEMERIS for the year 2563
geocentric

MAY 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|----------|--------|---------|--------|-------|------|-------|-------|-------|--------|--------|---------|------|------|-----|
| S 1 | 14 35 36 | 10♌42'06 | 4♌11 | 27°R33 | 22♌52 | 25♌ 6 | 6°R16 | 6♌15 | 8°R25 | 12♌20 | 7°R 9 | 0°R 5 | 29°V47 | 24♌233 | 3♌21 | S 1 | |
| M 2 | 14 39 33 | 11°40'39 | 16° 6 | 27°V 9 | 24° 6 | 25°24 | 6♌ 9 | 6°21 | 8♌23 | 12°21 | 7°11 | 0°D 5 | 29°44 | 24°40 | 3°24 | M 2 | |
| T 3 | 14 43 29 | 12°39'09 | 27°59 | 26°50 | 25°20 | 25°42 | 6° 1 | 6°26 | 8°20 | 12°22 | 7°12 | 0♌ 5 | 29°41 | 24°47 | 3°28 | T 3 | |
| W 4 | 14 47 26 | 13°37'38 | 9♌52 | 26°35 | 26°34 | 26° 0 | 5°53 | 6°32 | 8°17 | 12°23 | 7°13 | 0° 6 | 29°38 | 24°53 | 3°32 | W 4 | |
| T 5 | 14 51 22 | 14°36'04 | 21°52 | 26°26 | 27°48 | 26°19 | 5°46 | 6°38 | 8°15 | 12°25 | 7°14 | 0° 7 | 29°35 | 25° 0 | 3°35 | T 5 | |
| F 6 | 14 55 19 | 15°34'28 | 4♌ 1 | 26°D21 | 29° 2 | 26°39 | 5°38 | 6°43 | 8°12 | 12°26 | 7°16 | 0° 9 | 29°32 | 25° 7 | 3°39 | F 6 | |
| S 7 | 14 59 16 | 16°32'50 | 16°23 | 26°21 | 0♌15 | 26°59 | 5°31 | 6°49 | 8°10 | 12°28 | 7°17 | 0°10 | 29°28 | 25°13 | 3°42 | S 7 | |
| S 8 | 15 3 12 | 17°31'10 | 29° 2 | 26°26 | 1°29 | 27°19 | 5°23 | 6°55 | 8° 7 | 12°29 | 7°18 | 0°R10 | 29°25 | 25°20 | 3°46 | S 8 | |
| M 9 | 15 7 9 | 18°29'28 | 11♌57 | 26°36 | 2°43 | 27°39 | 5°16 | 7° 1 | 8° 5 | 12°30 | 7°19 | 0°10 | 29°22 | 25°27 | 3°49 | M 9 | |
| T 10 | 15 11 5 | 19°27'45 | 19°27'45 | 26°51 | 3°57 | 28° 0 | 5° 9 | 7° 7 | 8° 2 | 12°32 | 7°20 | 0° 8 | 29°19 | 25°33 | 3°53 | T 10 | |
| W11 | 15 15 2 | 20°26'00 | 8♌39 | 27°10 | 5°11 | 28°21 | 5° 2 | 7°13 | 8° 0 | 12°33 | 7°22 | 0° 6 | 29°16 | 25°40 | 3°56 | W11 | |
| T 12 | 15 18 58 | 21°24'13 | 22°23 | 27°34 | 6°24 | 28°42 | 4°54 | 7°20 | 7°57 | 12°35 | 7°23 | 0° 3 | 29°12 | 25°47 | 4° 0 | T 12 | |
| F 13 | 15 22 55 | 22°22'25 | 6♌19 | 28° 2 | 7°38 | 29° 4 | 4°47 | 7°26 | 7°55 | 12°36 | 7°24 | 0° 0 | 29° 9 | 25°54 | 4° 3 | F 13 | |
| S 14 | 15 26 51 | 23°20'36 | 20°23 | 28°34 | 8°52 | 29°26 | 4°40 | 7°32 | 7°52 | 12°38 | 7°25 | 29°V57 | 29° 6 | 26° 0 | 4° 6 | S 14 | |
| S 15 | 15 30 48 | 24°18'44 | 4♌34 | 29°11 | 10° 5 | 29°49 | 4°34 | 7°38 | 7°50 | 12°40 | 7°26 | 29°55 | 29° 3 | 26° 7 | 4°10 | S 15 | |
| M16 | 15 34 45 | 25°16'52 | 18°46 | 29°51 | 11°19 | 0♌11 | 4°27 | 7°45 | 7°47 | 12°41 | 7°27 | 29°54 | 29° 0 | 26°14 | 4°13 | M16 | |
| T 17 | 15 38 41 | 26°14'58 | 2♌59 | 0♌34 | 12°33 | 0°34 | 4°20 | 7°51 | 7°45 | 12°43 | 7°28 | 29°D54 | 28°57 | 26°20 | 4°17 | T 17 | |
| W18 | 15 42 38 | 27°13'03 | 17° 9 | 1°22 | 13°46 | 0°57 | 4°13 | 7°58 | 7°43 | 12°45 | 7°29 | 29°55 | 28°53 | 26°27 | 4°20 | W18 | |
| T 19 | 15 46 34 | 28°11'06 | 1°V15 | 2°13 | 15° 0 | 1°21 | 4° 7 | 8° 4 | 7°40 | 12°46 | 7°31 | 29°56 | 28°50 | 26°34 | 4°23 | T 19 | |
| F 20 | 15 50 31 | 29° 9'08 | 15°16 | 3° 7 | 16°13 | 1°45 | 4° 0 | 8°11 | 7°38 | 12°48 | 7°32 | 29°58 | 28°47 | 26°41 | 4°27 | F 20 | |
| S 21 | 15 54 27 | 0♌ 7'09 | 29° 8 | 4° 4 | 17°27 | 2° 9 | 3°54 | 8°18 | 7°36 | 12°50 | 7°33 | 29°R58 | 28°44 | 26°47 | 4°30 | S 21 | |
| S 22 | 15 58 24 | 1° 5'08 | 12♌50 | 5° 4 | 18°40 | 2°33 | 3°48 | 8°24 | 7°33 | 12°51 | 7°34 | 29°58 | 28°41 | 26°54 | 4°33 | S 22 | |
| M23 | 16 2 20 | 2° 3'06 | 26°20 | 6° 7 | 19°54 | 2°58 | 3°42 | 8°31 | 7°31 | 12°53 | 7°35 | 29°56 | 28°38 | 27° 1 | 4°37 | M23 | |
| T 24 | 16 6 17 | 3° 1'02 | 9♌35 | 7°14 | 21° 7 | 3°23 | 3°36 | 8°38 | 7°29 | 12°55 | 7°36 | 29°52 | 28°34 | 27° 7 | 4°40 | T 24 | |
| W25 | 16 10 14 | 3°58'58 | 22°35 | 8°23 | 22°21 | 3°48 | 3°30 | 8°45 | 7°27 | 12°57 | 7°36 | 29°47 | 28°31 | 27°14 | 4°43 | W25 | |
| T 26 | 16 14 10 | 4°56'51 | 5♌19 | 9°34 | 23°34 | 4°14 | 3°24 | 8°52 | 7°25 | 12°59 | 7°37 | 29°41 | 28°28 | 27°21 | 4°46 | T 26 | |
| F 27 | 16 18 7 | 5°54'43 | 17°47 | 10°48 | 24°48 | 4°39 | 3°19 | 8°59 | 7°22 | 13° 1 | 7°38 | 29°35 | 28°25 | 27°28 | 4°50 | F 27 | |
| S 28 | 16 22 3 | 6°52'33 | 0♌ 2 | 12° 5 | 26° 1 | 5° 5 | 3°13 | 9° 6 | 7°20 | 13° 2 | 7°39 | 29°29 | 28°22 | 27°34 | 4°53 | S 28 | |
| S 29 | 16 26 0 | 7°50'22 | 12° 5 | 13°25 | 27°14 | 5°31 | 3° 8 | 9°13 | 7°18 | 13° 4 | 7°40 | 29°25 | 28°18 | 27°41 | 4°56 | S 29 | |
| M30 | 16 29 56 | 8°48'09 | 24° 0 | 14°47 | 28°28 | 5°58 | 3° 3 | 9°20 | 7°16 | 13° 6 | 7°41 | 29°22 | 28°15 | 27°48 | 4°59 | M30 | |
| T 31 | 16 33 53 | 9°45'54 | 5♌52 | 16♌11 | 29°II41 | 6°II24 | 2♌58 | 9°27 | 7♌14 | 13° 8 | 7°V42 | 29°D21 | 28°V12 | 27°II54 | 5♌ 2 | T 31 | |

Delta T = 17m53s

JUNE 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|--------|-------|-------|---------|-------|-------|-------|-------|-------|--------|--------|-------|------|------|-----|
| W 1 | 16 37 50 | 10♌43'38 | 17♌45 | 17♌38 | 0♌54 | 6♌51 | 2°R53 | 9♌34 | 7°R12 | 13♌10 | 7°V43 | 29°V21 | 28°V 9 | 28♌ 1 | 5♌ 5 | W 1 | |
| T 2 | 16 41 46 | 11°41'20 | 29°44 | 19° 7 | 2° 7 | 7°18 | 2♌49 | 9°41 | 7♌10 | 13°12 | 7°43 | 29°22 | 28° 6 | 28° 8 | 5° 8 | T 2 | |
| F 3 | 16 45 43 | 12°39'01 | 11♌55 | 20°39 | 3°21 | 7°45 | 2°44 | 9°49 | 7° 8 | 13°14 | 7°44 | 29°23 | 28° 3 | 28°14 | 5°11 | F 3 | |
| S 4 | 16 49 39 | 13°36'40 | 24°21 | 22°13 | 4°34 | 8°13 | 2°40 | 9°56 | 7° 6 | 13°16 | 7°45 | 29°R24 | 27°59 | 28°21 | 5°14 | S 4 | |
| S 5 | 16 53 36 | 14°34'18 | 7♌ 7 | 23°49 | 5°47 | 8°41 | 2°35 | 10° 3 | 7° 4 | 13°18 | 7°46 | 29°24 | 27°56 | 28°28 | 5°17 | S 5 | |
| M 6 | 16 57 32 | 15°31'55 | 20°15 | 25°27 | 7° 0 | 9° 8 | 2°31 | 10°11 | 7° 2 | 13°20 | 7°46 | 29°22 | 27°53 | 28°35 | 5°20 | M 6 | |
| T 7 | 17 1 29 | 16°29'30 | 3♌45 | 27° 8 | 8°13 | 9°37 | 2°27 | 10°18 | 7° 1 | 13°22 | 7°47 | 29°18 | 27°50 | 28°41 | 5°23 | T 7 | |
| W 8 | 17 5 25 | 17°27'04 | 17°38 | 28°52 | 9°26 | 10° 5 | 2°24 | 10°25 | 6°59 | 13°24 | 7°48 | 29°13 | 27°47 | 28°48 | 5°26 | W 8 | |
| T 9 | 17 9 22 | 18°24'37 | 1♌49 | 0♌38 | 10°39 | 10°33 | 2°20 | 10°33 | 6°57 | 13°26 | 7°48 | 29° 5 | 27°44 | 28°55 | 5°29 | T 9 | |
| F 10 | 17 13 19 | 19°22'09 | 16°12 | 2°26 | 11°52 | 11° 2 | 2°17 | 10°40 | 6°56 | 13°28 | 7°49 | 28°58 | 27°40 | 29° 1 | 5°32 | F 10 | |
| S 11 | 17 17 15 | 20°19'40 | 0♌43 | 4°16 | 13° 5 | 11°31 | 2°13 | 10°48 | 6°54 | 13°30 | 7°50 | 28°50 | 27°37 | 29° 8 | 5°34 | S 11 | |
| S 12 | 17 21 12 | 21°17'10 | 15°15 | 6° 9 | 14°18 | 12° 0 | 2°10 | 10°55 | 6°52 | 13°32 | 7°50 | 28°44 | 27°34 | 29°15 | 5°37 | S 12 | |
| M13 | 17 25 8 | 22°14'40 | 29°41 | 8° 3 | 15°31 | 12°29 | 2° 7 | 11° 3 | 6°51 | 13°34 | 7°51 | 28°40 | 27°31 | 29°22 | 5°40 | M13 | |
| T 14 | 17 29 5 | 23°12'08 | 13♌59 | 10° 1 | 16°44 | 12°58 | 2° 5 | 11°10 | 6°49 | 13°37 | 7°51 | 28°38 | 27°28 | 29°28 | 5°43 | T 14 | |
| W15 | 17 33 1 | 24° 9'36 | 28° 5 | 12° 0 | 17°57 | 13°28 | 2° 2 | 11°18 | 6°48 | 13°39 | 7°52 | 28°D38 | 27°24 | 29°35 | 5°45 | W15 | |
| T 16 | 17 36 58 | 25° 7'04 | 11°V59 | 14° 1 | 19°10 | 13°57 | 2° 0 | 11°25 | 6°46 | 13°41 | 7°52 | 28°38 | 27°21 | 29°42 | 5°48 | T 16 | |
| F 17 | 17 40 54 | 26° 4'31 | 25°41 | 16° 4 | 20°22 | 14°27 | 1°58 | 11°33 | 6°45 | 13°43 | 7°53 | 28°R39 | 27°18 | 29°48 | 5°50 | F 17 | |
| S 18 | 17 44 51 | 27° 1'57 | 9♌10 | 18° 9 | 21°35 | 14°57 | 1°56 | 11°41 | 6°44 | 13°45 | 7°53 | 28°38 | 27°15 | 29°55 | 5°53 | S 18 | |
| S 19 | 17 48 48 | 27°59'23 | 22°28 | 20°16 | 22°48 | 15°27 | 1°54 | 11°48 | 6°42 | 13°47 | 7°54 | 28°36 | 27°12 | 0♌ 2 | 5°55 | S 19 | |
| M20 | 17 52 44 | 28°56'48 | 5♌35 | 22°24 | 24° 1 | 15°58 | 1°52 | 11°56 | 6°41 | 13°49 | 7°54 | 28°31 | 27° 9 | 0° 8 | 5°58 | M20 | |
| T 21 | 17 56 41 | 29°54'12 | 18°30 | 24°34 | 25°13 | 16°28 | 1°51 | 12° 4 | 6°40 | 13°52 | 7°55 | 28°24 | 27° 5 | 0°15 | 6° 0 | T 21 | |
| W22 | 18 0 37 | 0♌51'36 | 1♌13 | 26°44 | 26°26 | 16°59 | 1°49 | 12°11 | 6°39 | 13°54 | 7°55 | 28°14 | 27° 2 | 0°22 | 6° 3 | W22 | |
| T 23 | 18 4 34 | 1°48'59 | 13°44 | 28°56 | 27°39 | 17°30 | 1°48 | 12°19 | 6°38 | 13°56 | 7°55 | 28° 3 | 26°59 | 0°29 | 6° 5 | T 23 | |
| F 24 | 18 8 30 | 2°46'21 | 26° 4 | 1♌ 7 | 28°51 | 18° 1 | 1°47 | 12°27 | 6°36 | 13°58 | 7°56 | 27°51 | 26°56 | 0°35 | 6° 7 | F 24 | |
| S 25 | 18 12 27 | 3°43'43 | 8♌12 | 3°19 | 0♌ 4 | 18°32 | 1°46 | 12°35 | 6°35 | 14° 0 | 7°56 | 27°40 | 26°53 | 0°42 | 6°10 | S 25 | |
| S 26 | 18 16 24 | 4°41'04 | 20°12 | 5°31 | 1°17 | 19° 3 | 1°46 | 12°42 | 6°34 | 14° 3 | 7°56 | 27°31 | 26°50 | 0°49 | 6°12 | S 26 | |
| M27 | 18 20 20 | 5°38'24 | 2♌ 4 | 7°43 | 2°29 | 19°35 | 1°45 | 12°50 | 6°34 | 14° 5 | 7°57 | 27°24 | 26°46 | 0°55 | 6°14 | M27 | |
| T 28 | 18 24 17 | 6°35'43 | 13°54 | 9°54 | 3°42 | 20° 6 | 1°45 | 12°58 | 6°33 | 14° 7 | 7°57 | 27°19 | 26°43 | 1° 2 | 6°16 | T 28 | |
| W29 | 18 28 13 | 7°33'01 | 25°46 | 12° 4 | 4°54 | 20°38 | 1°D45 | 13° 6 | 6°32 | 14° 9 | 7°57 | 27°17 | 26°40 | 1° 9 | 6°18 | W29 | |
| T 30 | 18 32 10 | 8°30'19 | 7♌43 | 14♌14 | 6♌ 6 | 21°II10 | 1♌45 | 13°13 | 6♌31 | 14°11 | 7°V57 | 27°D16 | 26°V37 | 1♌15 | 6♌20 | T 30 | |

Delta T = 17m54s

ASTRODIENST EPHEMERIS for the year 2563
geocentric

JULY 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|--------|-------|------|------|------|---|---|---|---|---|---|---|-----|
| F 1 | 18 36 6 | 9♄27'36 | 19♂52 | 16♁22 | 7♁19 | 21♃42 | 1♃46 | 13♄21 | 6°R30 | 14♅14 | 7♆57 | 27♇16 | 26♈34 | 1♉22 | 6♊22 | F 1 | | | | | | | | |
| S 2 | 18 40 3 | 10°24'52 | 2♃18 | 18°28 | 8°31 | 22°14 | 1°46 | 13°29 | 6♃30 | 14°16 | 7°58 | 27°R16 | 26°30 | 1°29 | 6°24 | S 2 | | | | | | | | |
| S 3 | 18 43 59 | 11°22'07 | 15° 5 | 20°33 | 9°43 | 22°46 | 1°47 | 13°37 | 6°29 | 14°18 | 7°58 | 27°15 | 26°27 | 1°36 | 6°26 | S 3 | | | | | | | | |
| M 4 | 18 47 56 | 12°19'22 | 28°17 | 22°36 | 10°56 | 23°18 | 1°48 | 13°45 | 6°28 | 14°20 | 7°58 | 27°12 | 26°24 | 1°42 | 6°28 | M 4 | | | | | | | | |
| T 5 | 18 51 53 | 13°16'37 | 11♁57 | 24°38 | 12° 8 | 23°51 | 1°49 | 13°52 | 6°28 | 14°23 | 7°58 | 27° 6 | 26°21 | 1°49 | 6°30 | T 5 | | | | | | | | |
| W 6 | 18 55 49 | 14°13'51 | 26° 4 | 26°37 | 13°20 | 24°23 | 1°50 | 14° 0 | 6°27 | 14°25 | 7°58 | 26°58 | 26°18 | 1°56 | 6°32 | W 6 | | | | | | | | |
| T 7 | 18 59 46 | 15°11'04 | 10♁34 | 28°35 | 14°32 | 24°56 | 1°51 | 14° 8 | 6°27 | 14°27 | 7°58 | 26°48 | 26°15 | 2° 2 | 6°34 | T 7 | | | | | | | | |
| F 8 | 19 3 42 | 16° 8'18 | 25°21 | 0♁30 | 15°44 | 25°29 | 1°53 | 14°16 | 6°27 | 14°29 | 7°R58 | 26°37 | 26°11 | 2° 9 | 6°35 | F 8 | | | | | | | | |
| S 9 | 19 7 39 | 17° 5'31 | 10♁17 | 2°24 | 16°56 | 26° 2 | 1°55 | 14°24 | 6°26 | 14°32 | 7°58 | 26°27 | 26° 8 | 2°16 | 6°37 | S 9 | | | | | | | | |
| S 10 | 19 11 35 | 18° 2'44 | 25°12 | 4°15 | 18° 8 | 26°35 | 1°56 | 14°31 | 6°26 | 14°34 | 7°58 | 26°18 | 26° 5 | 2°22 | 6°39 | S 10 | | | | | | | | |
| M 11 | 19 15 32 | 18°59'57 | 9♁59 | 6° 5 | 19°20 | 27° 8 | 1°59 | 14°39 | 6°26 | 14°36 | 7°58 | 26°12 | 26° 2 | 2°29 | 6°40 | M 11 | | | | | | | | |
| T 12 | 19 19 28 | 19°57'10 | 24°30 | 7°52 | 20°32 | 27°42 | 2° 1 | 14°47 | 6°26 | 14°38 | 7°58 | 26° 8 | 25°59 | 2°36 | 6°42 | T 12 | | | | | | | | |
| W 13 | 19 23 25 | 20°54'24 | 8♁43 | 9°37 | 21°44 | 28°15 | 2° 3 | 14°55 | 6°26 | 14°40 | 7°58 | 26° 6 | 25°56 | 2°42 | 6°43 | W 13 | | | | | | | | |
| T 14 | 19 27 22 | 21°51'37 | 22°36 | 11°20 | 22°56 | 28°49 | 2° 6 | 15° 3 | 6°26 | 14°43 | 7°58 | 26° 6 | 25°52 | 2°49 | 6°44 | T 14 | | | | | | | | |
| F 15 | 19 31 18 | 22°48'51 | 6♁10 | 13° 1 | 24° 8 | 29°22 | 2° 9 | 15°10 | 6°D26 | 14°45 | 7°57 | 26° 6 | 25°49 | 2°56 | 6°46 | F 15 | | | | | | | | |
| S 16 | 19 35 15 | 23°46'06 | 19°27 | 14°40 | 25°20 | 29°56 | 2°12 | 15°18 | 6°26 | 14°47 | 7°57 | 26° 5 | 25°46 | 3° 3 | 6°47 | S 16 | | | | | | | | |
| S 17 | 19 39 11 | 24°43'20 | 2♁28 | 16°17 | 26°31 | 0♁30 | 2°15 | 15°26 | 6°26 | 14°49 | 7°57 | 26° 1 | 25°43 | 3° 9 | 6°48 | S 17 | | | | | | | | |
| M 18 | 19 43 8 | 25°40'35 | 15°16 | 17°52 | 27°43 | 1° 4 | 2°18 | 15°34 | 6°26 | 14°52 | 7°57 | 25°55 | 25°40 | 3°16 | 6°50 | M 18 | | | | | | | | |
| T 19 | 19 47 4 | 26°37'50 | 27°53 | 19°24 | 28°55 | 1°38 | 2°21 | 15°41 | 6°26 | 14°54 | 7°57 | 25°46 | 25°36 | 3°23 | 6°51 | T 19 | | | | | | | | |
| W 20 | 19 51 1 | 27°35'06 | 10♁20 | 20°55 | 0♁6 | 2°12 | 2°25 | 15°49 | 6°26 | 14°56 | 7°56 | 25°35 | 25°33 | 3°29 | 6°52 | W 20 | | | | | | | | |
| T 21 | 19 54 57 | 28°32'22 | 22°37 | 22°23 | 1°18 | 2°47 | 2°29 | 15°57 | 6°27 | 14°58 | 7°56 | 25°22 | 25°30 | 3°36 | 6°53 | T 21 | | | | | | | | |
| F 22 | 19 58 54 | 29°29'38 | 4♁45 | 23°49 | 2°29 | 3°21 | 2°33 | 16° 4 | 6°27 | 15° 0 | 7°56 | 25° 8 | 25°27 | 3°43 | 6°54 | F 22 | | | | | | | | |
| S 23 | 20 2 51 | 0♁26'54 | 16°46 | 25°13 | 3°41 | 3°56 | 2°37 | 16°12 | 6°27 | 15° 2 | 7°55 | 24°55 | 25°24 | 3°49 | 6°55 | S 23 | | | | | | | | |
| S 24 | 20 6 47 | 1°24'10 | 28°41 | 26°34 | 4°52 | 4°31 | 2°41 | 16°20 | 6°28 | 15° 5 | 7°55 | 24°43 | 25°21 | 3°56 | 6°56 | S 24 | | | | | | | | |
| M 25 | 20 10 44 | 2°21'26 | 10♁31 | 27°54 | 6° 3 | 5° 5 | 2°45 | 16°27 | 6°28 | 15° 7 | 7°55 | 24°34 | 25°17 | 4° 3 | 6°57 | M 25 | | | | | | | | |
| T 26 | 20 14 40 | 3°18'43 | 22°19 | 29°11 | 7°15 | 5°40 | 2°50 | 16°35 | 6°29 | 15° 9 | 7°54 | 24°28 | 25°14 | 4°10 | 6°58 | T 26 | | | | | | | | |
| W 27 | 20 18 37 | 4°16'00 | 4♁ 9 | 0♁25 | 8°26 | 6°15 | 2°55 | 16°42 | 6°30 | 15°11 | 7°54 | 24°24 | 25°11 | 4°16 | 6°58 | W 27 | | | | | | | | |
| T 28 | 20 22 33 | 5°13'16 | 16° 5 | 1°38 | 9°37 | 6°50 | 3° 0 | 16°50 | 6°30 | 15°13 | 7°54 | 24°23 | 25° 8 | 4°23 | 6°59 | T 28 | | | | | | | | |
| F 29 | 20 26 30 | 6°10'34 | 28°12 | 2°47 | 10°48 | 7°25 | 3° 5 | 16°58 | 6°31 | 15°15 | 7°53 | 24°D23 | 25° 5 | 4°30 | 7° 0 | F 29 | | | | | | | | |
| S 30 | 20 30 26 | 7° 7'51 | 10♁35 | 3°54 | 11°59 | 8° 1 | 3°10 | 17° 5 | 6°32 | 15°17 | 7°53 | 24°R23 | 25° 2 | 4°36 | 7° 0 | S 30 | | | | | | | | |
| S 31 | 20 34 23 | 8♁ 5'08 | 23♁20 | 4♁59 | 13♁11 | 8♁36 | 3♁15 | 17♁13 | 6♁33 | 15♁20 | 7♁52 | 24♁22 | 24♁58 | 4♁43 | 7♁ 1 | S 31 | | | | | | | | |

Delta T = 17m54s

AUGUST 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|------|-------|------|-------|-------|--------|-------|------|-------|------|---|---|---|---|---|---|---|-----|
| M 1 | 20 38 20 | 9♁ 2'26 | 6♁30 | 6♁11 | 14♁22 | 9♁12 | 3♁21 | 17♁20 | 6♁33 | 15♁22 | 7°R52 | 24°R19 | 24♁55 | 4♁50 | 7♁ 1 | M 1 | | | | | | | | |
| T 2 | 20 42 16 | 9°59'44 | 20°10 | 6°59 | 15°32 | 9°47 | 3°26 | 17°27 | 6°34 | 15°24 | 7°R51 | 24°R14 | 24°52 | 4°56 | 7° 2 | T 2 | | | | | | | | |
| W 3 | 20 46 13 | 10°57'03 | 4♁19 | 7°55 | 16°43 | 10°23 | 3°32 | 17°35 | 6°35 | 15°26 | 7°51 | 24° 7 | 24°49 | 5° 3 | 7° 2 | W 3 | | | | | | | | |
| T 4 | 20 50 9 | 11°54'22 | 18°55 | 8°48 | 17°54 | 10°59 | 3°38 | 17°42 | 6°36 | 15°28 | 7°50 | 23°58 | 24°46 | 5°10 | 7° 3 | T 4 | | | | | | | | |
| F 5 | 20 54 6 | 12°51'41 | 3♁53 | 9°38 | 19° 5 | 11°35 | 3°44 | 17°50 | 6°38 | 15°30 | 7°49 | 23°48 | 24°42 | 5°16 | 7° 3 | F 5 | | | | | | | | |
| S 6 | 20 58 2 | 13°49'01 | 19° 4 | 10°24 | 20°15 | 12°11 | 3°50 | 17°57 | 6°39 | 15°32 | 7°49 | 23°38 | 24°39 | 5°23 | 7° 3 | S 6 | | | | | | | | |
| S 7 | 21 1 59 | 14°46'22 | 4♁17 | 11° 6 | 21°26 | 12°47 | 3°57 | 18° 4 | 6°40 | 15°34 | 7°48 | 23°30 | 24°36 | 5°30 | 7° 3 | S 7 | | | | | | | | |
| M 8 | 21 5 55 | 15°43'43 | 19°22 | 11°45 | 22°37 | 13°23 | 4° 3 | 18°11 | 6°41 | 15°36 | 7°48 | 23°24 | 24°33 | 5°37 | 7° 4 | M 8 | | | | | | | | |
| T 9 | 21 9 52 | 16°41'05 | 4♁10 | 12°20 | 23°47 | 13°59 | 4°10 | 18°19 | 6°42 | 15°38 | 7°47 | 23°20 | 24°30 | 5°43 | 7° 4 | T 9 | | | | | | | | |
| W 10 | 21 13 49 | 17°38'29 | 18°35 | 12°51 | 24°57 | 14°35 | 4°16 | 18°26 | 6°44 | 15°40 | 7°46 | 23°D19 | 24°27 | 5°50 | 7°R 4 | W 10 | | | | | | | | |
| T 11 | 21 17 45 | 18°35'53 | 2♁37 | 13°18 | 26° 8 | 15°12 | 4°23 | 18°33 | 6°45 | 15°42 | 7°45 | 23°19 | 24°23 | 5°57 | 7° 4 | T 11 | | | | | | | | |
| F 12 | 21 21 42 | 19°33'19 | 16°13 | 13°41 | 27°18 | 15°48 | 4°30 | 18°40 | 6°47 | 15°44 | 7°45 | 23°R20 | 24°20 | 6° 3 | 7° 4 | F 12 | | | | | | | | |
| S 13 | 21 25 38 | 20°30'46 | 29°27 | 13°59 | 28°28 | 16°25 | 4°38 | 18°47 | 6°48 | 15°46 | 7°44 | 23°19 | 24°17 | 6°10 | 7° 3 | S 13 | | | | | | | | |
| S 14 | 21 29 35 | 21°28'14 | 12♁22 | 14°12 | 29°38 | 17° 1 | 4°45 | 18°54 | 6°50 | 15°48 | 7°43 | 23°17 | 24°14 | 6°17 | 7° 3 | S 14 | | | | | | | | |
| M 15 | 21 33 31 | 22°25'43 | 25° 0 | 14°20 | 0♁48 | 17°38 | 4°52 | 19° 1 | 6°51 | 15°49 | 7°43 | 23°13 | 24°11 | 6°23 | 7° 3 | M 15 | | | | | | | | |
| T 16 | 21 37 28 | 23°23'13 | 7♁25 | 14°R23 | 1°58 | 18°15 | 5° 0 | 19° 8 | 6°53 | 15°51 | 7°42 | 23° 6 | 24° 8 | 6°30 | 7° 3 | T 16 | | | | | | | | |
| W 17 | 21 41 24 | 24°20'45 | 19°39 | 14°20 | 3° 8 | 18°52 | 5° 7 | 19°15 | 6°54 | 15°53 | 7°41 | 22°57 | 24° 4 | 6°37 | 7° 2 | W 17 | | | | | | | | |
| T 18 | 21 45 21 | 25°18'18 | 1♁44 | 14°13 | 4°18 | 19°29 | 5°15 | 19°22 | 6°56 | 15°55 | 7°40 | 22°47 | 24° 1 | 6°43 | 7° 2 | T 18 | | | | | | | | |
| F 19 | 21 49 18 | 26°15'52 | 13°43 | 14° 0 | 5°28 | 20° 6 | 5°23 | 19°29 | 6°58 | 15°57 | 7°39 | 22°36 | 23°58 | 6°50 | 7° 2 | F 19 | | | | | | | | |
| S 20 | 21 53 14 | 27°13'27 | 25°37 | 13°42 | 6°37 | 20°43 | 5°31 | 19°35 | 7° 0 | 15°59 | 7°38 | 22°26 | 23°55 | 6°57 | 7° 1 | S 20 | | | | | | | | |
| S 21 | 21 57 11 | 28°11'03 | 7♁28 | 13°18 | 7°47 | 21°21 | 5°39 | 19°42 | 7° 2 | 16° 0 | 7°38 | 22°17 | 23°52 | 7° 3 | 7° 0 | S 21 | | | | | | | | |
| M 22 | 22 1 7 | 29° 8'40 | 19°18 | 12°49 | 8°57 | 21°58 | 5°48 | 19°49 | 7° 4 | 16° 2 | 7°37 | 22°10 | 23°48 | 7°10 | 7° 0 | M 22 | | | | | | | | |
| T 23 | 22 5 4 | 0♁6'18 | 1♁ 6 | 12°15 | 10° 6 | 22°36 | 5°56 | 19°55 | 7° 6 | 16° 4 | 7°36 | 22° 5 | 23°45 | 7°17 | 6°59 | T 23 | | | | | | | | |
| W 24 | 22 9 0 | 1° 3'57 | 12°58 | 11°37 | 11°15 | 23°13 | 6° 5 | 20° 2 | 7° 8 | 16° 6 | 7°35 | 22° 3 | 23°42 | 7°23 | 6°58 | W 24 | | | | | | | | |
| T 25 | 22 12 57 | 2° 1'38 | 24°57 | 10°54 | 12°25 | 23°51 | 6°13 | 20° 8 | 7°10 | 16° 7 | 7°34 | 22°D 3 | 23°39 | 7°30 | 6°58 | T 25 | | | | | | | | |
| F 26 | 22 16 53 | 2°59'19 | 7♁ 5 | 10° 8 | 13°34 | 24°29 | 6°22 | 20°15 | 7°12 | 16° 9 | 7°33 | 22° 3 | 23°36 | 7°37 | 6°57 | F 26 | | | | | | | | |
| S 27 | 22 20 50 | 3°57'01 | 19°29 | 9°20 | 14°43 | 25° 7 | 6°31 | 20°21 | 7°14 | 16°10 | 7°32 | 22° 5 | 23°33 | 7°44 | 6°56 | S 27 | | | | | | | | |
| S 28 | 22 24 47 | 4°54'45 | 2♁11 | 8°29 | 15°52 | 25°44 | 6°40 | 20°28 | 7°16 | 16°12 | 7°31 | 22°R 5 | 23°29 | 7°50 | 6°55 | S 28 | | | | | | | | |
| M 29 | 22 28 43 | 5°52'29 | 15°17 | 7°37 | 17° 1 | 26°22 | 6°49 | 20°34 | 7°18 | 16°14 | 7°30 | 22° 5 | 23°26 | 7°57 | 6°54 | M 29 | | | | | | | | |
| T 30 | 22 32 40 | 6°50'15 | 28°50 | 6°45 | 18°10 | 27° 1 | 6°58 | 20°40 | 7°21 | 16°15 | 7°29 | 22° 3 | 23°23 | 8° 4 | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2563
geocentric

SEPTEMBER 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|------|-------|-------|--------|--------|-------|-------|------|-----|
| T 1 | 22 40 33 | 8♎45'49 | 27♋22 | 5°R 4 | 20♊27 | 28♊17 | 7♎16 | 20♋52 | 7♎25 | 16♋18 | 7°R27 | 21°R54 | 23♎17 | 8♎17 | 6°R51 | T 1 | |
| F 2 | 22 44 29 | 9°43'38 | 12♋15 | 4♎18 | 21°35 | 28°55 | 7°26 | 20°58 | 7°28 | 16°20 | 7♎26 | 21°Y48 | 23°14 | 8°24 | 6♋50 | F 2 | |
| S 3 | 22 48 26 | 10°41'28 | 27°25 | 3°36 | 22°44 | 29°34 | 7°36 | 21° 4 | 7°30 | 16°21 | 7°25 | 21°42 | 23°10 | 8°30 | 6°49 | S 3 | |
| S 4 | 22 52 22 | 11°39'20 | 12♋42 | 2°59 | 23°52 | 0♎12 | 7°45 | 21°10 | 7°33 | 16°23 | 7°24 | 21°36 | 23° 7 | 8°37 | 6°47 | S 4 | |
| M 5 | 22 56 19 | 12°37'13 | 27°54 | 2°27 | 25° 0 | 0°51 | 7°55 | 21°16 | 7°35 | 16°24 | 7°23 | 21°33 | 23° 4 | 8°44 | 6°46 | M 5 | |
| T 6 | 23 0 16 | 13°35'07 | 12♎54 | 2° 3 | 26° 8 | 1°29 | 8° 5 | 21°22 | 7°38 | 16°26 | 7°22 | 21°31 | 23° 1 | 8°50 | 6°45 | T 6 | |
| W 7 | 23 4 12 | 14°33'03 | 27°32 | 1°45 | 27°16 | 2° 8 | 8°15 | 21°28 | 7°40 | 16°27 | 7°21 | 21°D31 | 22°58 | 8°57 | 6°43 | W 7 | |
| T 8 | 23 8 9 | 15°31'01 | 11♋44 | 1°36 | 28°24 | 2°47 | 8°25 | 21°33 | 7°43 | 16°28 | 7°20 | 21°32 | 22°54 | 9° 4 | 6°42 | T 8 | |
| F 9 | 23 12 5 | 16°29'01 | 25°30 | 1°D34 | 29°31 | 3°26 | 8°35 | 21°39 | 7°45 | 16°30 | 7°19 | 21°33 | 22°51 | 9°10 | 6°40 | F 9 | |
| S 10 | 23 16 2 | 17°27'03 | 8♎49 | 1°41 | 0♎39 | 4° 5 | 8°45 | 21°45 | 7°48 | 16°31 | 7°17 | 21°35 | 22°48 | 9°17 | 6°39 | S 10 | |
| S 11 | 23 19 58 | 18°25'06 | 21°45 | 1°56 | 1°46 | 4°44 | 8°55 | 21°50 | 7°51 | 16°32 | 7°16 | 21°R35 | 22°45 | 9°24 | 6°37 | S 11 | |
| M12 | 23 23 55 | 19°23'12 | 4♋21 | 2°19 | 2°54 | 5°23 | 9° 6 | 21°55 | 7°54 | 16°33 | 7°15 | 21°34 | 22°42 | 9°30 | 6°35 | M12 | |
| T 13 | 23 27 51 | 20°21'19 | 16°41 | 2°51 | 4° 1 | 6° 2 | 9°16 | 22° 1 | 7°57 | 16°35 | 7°14 | 21°31 | 22°39 | 9°37 | 6°34 | T 13 | |
| W14 | 23 31 48 | 21°19'29 | 28°48 | 3°31 | 5° 8 | 6°41 | 9°27 | 22° 6 | 7°59 | 16°36 | 7°13 | 21°27 | 22°35 | 9°44 | 6°32 | W14 | |
| T 15 | 23 35 45 | 22°17'40 | 10♎47 | 4°19 | 6°15 | 7°21 | 9°37 | 22°11 | 8° 2 | 16°37 | 7°12 | 21°23 | 22°32 | 9°51 | 6°30 | T 15 | |
| F 16 | 23 39 41 | 23°15'53 | 22°40 | 5°15 | 7°21 | 8° 0 | 9°48 | 22°16 | 8° 5 | 16°38 | 7°11 | 21°18 | 22°29 | 9°57 | 6°28 | F 16 | |
| S 17 | 23 43 38 | 24°14'08 | 4♎30 | 6°18 | 8°28 | 8°40 | 9°59 | 22°21 | 8° 8 | 16°39 | 7° 9 | 21°13 | 22°26 | 10° 4 | 6°27 | S 17 | |
| S 18 | 23 47 34 | 25°12'24 | 16°20 | 7°28 | 9°35 | 9°19 | 10°10 | 22°26 | 8°11 | 16°40 | 7° 8 | 21° 9 | 22°23 | 10°11 | 6°25 | S 18 | |
| M19 | 23 51 31 | 26°10'43 | 28°11 | 8°44 | 10°41 | 9°59 | 10°21 | 22°31 | 8°14 | 16°41 | 7° 7 | 21° 6 | 22°19 | 10°17 | 6°23 | M19 | |
| T 20 | 23 55 27 | 27° 9'03 | 10♊ 4 | 10° 6 | 11°47 | 10°39 | 10°32 | 22°36 | 8°17 | 16°42 | 7° 6 | 21° 4 | 22°16 | 10°24 | 6°21 | T 20 | |
| W21 | 23 59 24 | 28° 7'25 | 22° 4 | 11°33 | 12°53 | 11°19 | 10°43 | 22°41 | 8°20 | 16°43 | 7° 5 | 21°D 4 | 22°13 | 10°31 | 6°19 | W21 | |
| T 22 | 0 3 20 | 29° 5'48 | 4♎11 | 13° 4 | 13°59 | 11°58 | 10°54 | 22°45 | 8°23 | 16°44 | 7° 4 | 21° 4 | 22°10 | 10°37 | 6°17 | T 22 | |
| F 23 | 0 7 17 | 0♊ 4'13 | 16°28 | 14°40 | 15° 5 | 12°38 | 11° 5 | 22°50 | 8°27 | 16°45 | 7° 2 | 21° 6 | 22° 7 | 10°44 | 6°15 | F 23 | |
| S 24 | 0 11 14 | 1° 2'40 | 28°58 | 16°19 | 16°10 | 13°19 | 11°17 | 22°54 | 8°30 | 16°46 | 7° 1 | 21° 7 | 22° 4 | 10°51 | 6°13 | S 24 | |
| S 25 | 0 15 10 | 2° 1'09 | 11♋45 | 18° 1 | 17°15 | 13°59 | 11°28 | 22°59 | 8°33 | 16°47 | 7° 0 | 21° 8 | 22° 0 | 10°57 | 6°10 | S 25 | |
| M26 | 0 19 7 | 2°59'39 | 24°51 | 19°46 | 18°21 | 14°39 | 11°40 | 23° 3 | 8°36 | 16°48 | 6°59 | 21° 9 | 21°57 | 11° 4 | 6° 8 | M26 | |
| T 27 | 0 23 3 | 3°58'11 | 8♋19 | 21°32 | 19°25 | 15°19 | 11°51 | 23° 7 | 8°39 | 16°48 | 6°58 | 21°R 9 | 21°54 | 11°11 | 6° 6 | T 27 | |
| W28 | 0 27 0 | 4°56'44 | 22°10 | 23°20 | 20°30 | 16° 0 | 12° 3 | 23°11 | 8°43 | 16°49 | 6°56 | 21° 9 | 21°51 | 11°17 | 6° 4 | W28 | |
| T 29 | 0 30 56 | 5°55'19 | 6♋26 | 25°10 | 21°35 | 16°40 | 12°14 | 23°15 | 8°46 | 16°50 | 6°55 | 21° 7 | 21°48 | 11°24 | 6° 1 | T 29 | |
| F 30 | 0 34 53 | 6♊53'56 | 21♋ 3 | 27♎ 0 | 22♎39 | 17♎21 | 12♎26 | 23♋19 | 8♎49 | 16♋51 | 6°Y54 | 21°Y 6 | 21°Y45 | 11♎31 | 5♋59 | F 30 | |

Delta T = 17m55s

OCTOBER 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|------|
| S 1 | 0 38 49 | 7♊52'34 | 5♋57 | 28♎50 | 23♎43 | 18♎ 1 | 12♎38 | 23♋23 | 8♎53 | 16♋51 | 6°R53 | 21°R 4 | 21°Y41 | 11♎37 | 5°R57 | S 1 |
| S 2 | 0 42 46 | 8°51'14 | 21° 1 | 0♊41 | 24°47 | 18°42 | 12°50 | 23°27 | 8°56 | 16°52 | 6°Y52 | 21°Y 3 | 21°38 | 11°44 | 5♋54 | S 2 |
| M 3 | 0 46 43 | 9°49'55 | 6°Y 6 | 2°32 | 25°51 | 19°23 | 13° 2 | 23°30 | 8°59 | 16°52 | 6°50 | 21° 2 | 21°35 | 11°51 | 5°52 | M 3 |
| T 4 | 0 50 39 | 10°48'39 | 21° 3 | 4°23 | 26°54 | 20° 3 | 13°14 | 23°34 | 9° 3 | 16°53 | 6°49 | 21°D 2 | 21°32 | 11°57 | 5°50 | T 4 |
| W 5 | 0 54 36 | 11°47'24 | 5♋44 | 6°14 | 27°57 | 20°44 | 13°26 | 23°37 | 9° 6 | 16°54 | 6°48 | 21° 2 | 21°29 | 12° 4 | 5°47 | W 5 |
| T 6 | 0 58 32 | 12°46'12 | 20° 3 | 8° 4 | 29° 0 | 21°25 | 13°38 | 23°41 | 9°10 | 16°54 | 6°47 | 21° 2 | 21°25 | 12°11 | 5°45 | T 6 |
| F 7 | 1 2 29 | 13°45'02 | 3♎57 | 9°53 | 0♋ 3 | 22° 6 | 13°50 | 23°44 | 9°13 | 16°55 | 6°46 | 21° 3 | 21°22 | 12°17 | 5°42 | F 7 |
| S 8 | 1 6 25 | 14°43'54 | 17°24 | 11°42 | 1° 5 | 22°47 | 14° 2 | 23°47 | 9°17 | 16°55 | 6°44 | 21° 4 | 21°19 | 12°24 | 5°40 | S 8 |
| S 9 | 1 10 22 | 15°42'49 | 0♋26 | 13°30 | 2° 7 | 23°29 | 14°14 | 23°50 | 9°20 | 16°55 | 6°43 | 21° 4 | 21°16 | 12°31 | 5°37 | S 9 |
| M10 | 1 14 18 | 16°41'46 | 13° 5 | 15°18 | 3° 9 | 24°10 | 14°26 | 23°53 | 9°24 | 16°56 | 6°42 | 21°R 4 | 21°13 | 12°37 | 5°34 | M10 |
| T 11 | 1 18 15 | 17°40'45 | 25°26 | 17° 5 | 4°10 | 24°51 | 14°39 | 23°56 | 9°27 | 16°56 | 6°41 | 21° 4 | 21°10 | 12°44 | 5°32 | T 11 |
| W12 | 1 22 12 | 18°39'46 | 7♎32 | 18°51 | 5°11 | 25°33 | 14°51 | 23°59 | 9°31 | 16°56 | 6°40 | 21° 4 | 21° 6 | 12°51 | 5°29 | W12 |
| T 13 | 1 26 8 | 19°38'49 | 19°28 | 20°36 | 6°12 | 26°14 | 15° 3 | 24° 1 | 9°35 | 16°57 | 6°38 | 21° 4 | 21° 3 | 12°57 | 5°27 | T 13 |
| F 14 | 1 30 5 | 20°37'55 | 1♎19 | 22°20 | 7°13 | 26°56 | 15°16 | 24° 4 | 9°38 | 16°57 | 6°37 | 21°D 4 | 21° 0 | 13° 4 | 5°24 | F 14 |
| S 15 | 1 34 1 | 21°37'02 | 13° 8 | 24° 4 | 8°13 | 27°37 | 15°28 | 24° 6 | 9°42 | 16°57 | 6°36 | 21° 4 | 20°57 | 13°11 | 5°21 | S 15 |
| S 16 | 1 37 58 | 22°36'12 | 24°59 | 25°47 | 9°13 | 28°19 | 15°41 | 24° 9 | 9°45 | 16°57 | 6°35 | 21° 4 | 20°54 | 13°18 | 5°18 | S 16 |
| M17 | 1 41 54 | 23°35'24 | 6♊54 | 27°29 | 10°13 | 29° 1 | 15°54 | 24°11 | 9°49 | 16°57 | 6°34 | 21° 4 | 20°51 | 13°24 | 5°16 | M17 |
| T 18 | 1 45 51 | 24°34'39 | 18°56 | 29°10 | 11°12 | 29°43 | 16° 6 | 24°13 | 9°53 | 16°57 | 6°33 | 21°R 4 | 20°47 | 13°31 | 5°13 | T 18 |
| W19 | 1 49 47 | 25°33'55 | 1♎ 7 | 0♎50 | 12°11 | 0♋24 | 16°19 | 24°15 | 9°56 | 16°57 | 6°32 | 21° 4 | 20°44 | 13°38 | 5°10 | W19 |
| T 20 | 1 53 44 | 26°33'13 | 13°29 | 2°30 | 13° 9 | 1° 6 | 16°31 | 24°17 | 10° 0 | 16°R57 | 6°30 | 21° 4 | 20°41 | 13°44 | 5° 8 | T 20 |
| F 21 | 1 57 40 | 27°32'33 | 26° 2 | 4° 9 | 14° 7 | 1°49 | 16°44 | 24°19 | 10° 4 | 16°57 | 6°29 | 21° 3 | 20°38 | 13°51 | 5° 5 | F 21 |
| S 22 | 2 1 37 | 28°31'55 | 8♋48 | 5°47 | 15° 4 | 2°31 | 16°57 | 24°21 | 10° 8 | 16°57 | 6°28 | 21° 2 | 20°35 | 13°58 | 5° 2 | S 22 |
| S 23 | 2 5 34 | 29°31'19 | 21°49 | 7°25 | 16° 2 | 3°13 | 17°10 | 24°22 | 10°11 | 16°57 | 6°27 | 21° 1 | 20°31 | 14° 4 | 4°59 | S 23 |
| M24 | 2 9 30 | 0♎30'45 | 5♋ 4 | 9° 2 | 16°58 | 3°55 | 17°23 | 24°24 | 10°15 | 16°57 | 6°26 | 21° 0 | 20°28 | 14°11 | 4°57 | M24 |
| T 25 | 2 13 27 | 1°30'13 | 18°35 | 10°38 | 17°54 | 4°38 | 17°35 | 24°25 | 10°19 | 16°57 | 6°25 | 21° 0 | 20°25 | 14°18 | 4°54 | T 25 |
| W26 | 2 17 23 | 2°29'42 | 2♋22 | 12°13 | 18°50 | 5°20 | 17°48 | 24°26 | 10°23 | 16°57 | 6°24 | 20°D59 | 20°22 | 14°24 | 4°51 | W26 |
| T 27 | 2 21 20 | 3°29'13 | 16°25 | 13°48 | 19°45 | 6° 2 | 18° 1 | 24°28 | 10°26 | 16°57 | 6°23 | 21° 0 | 20°19 | 14°31 | 4°48 | T 27 |
| F 28 | 2 25 16 | 4°28'45 | 0♋44 | 15°22 | 20°40 | 6°45 | 18°14 | 24°29 | 10°30 | 16°56 | 6°22 | 21° 0 | 20°16 | 14°38 | 4°45 | F 28 |
| S 29 | 2 29 13 | 5°28'20 | 15°15 | 16°56 | 21°34 | 7°28 | 18°27 | 24°30 | 10°34 | 16°56 | 6°21 | 21° 1 | 20°12 | 14°44 | 4°43 | S 29 |
| S 30 | 2 33 9 | 6°27'55 | 29°54 | 18°29 | 22°27 | 8°10 | 18°40 | 24°30 | 10°38 | 16°56 | 6°20 | 21° 2 | 20° 9 | 14°51 | 4°40 | S 30 |
| M31 | 2 37 6 | 7♎27'33 | 14°Y37 | 20♎ 1 | 23♋20 | 8♋53 | 18♎53 | 24♋31 | 10♎41 | 16♋56 | 6°Y19 | 21°R 3 | 20°Y 6 | 14♎58 | 4♋37 | M31 |

Delta T = 17m55s

ASTRODIENST EPHEMERIS for the year 2563
geocentric

NOVEMBER 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|--------|--------|-------|------|-----|
| T 1 | 2 41 3 | 8♁27'12 | 29♁16 | 21♁33 | 24♁12 | 9♁36 | 19♁6 | 24♁32 | 10♁45 | 16°R55 | 6°R18 | 21°R 3 | 20°Y 3 | 15°M 4 | 4°R34 | T 1 | |
| W 2 | 2 44 59 | 9°26'54 | 13♁46 | 23° 4 | 25° 3 | 10°19 | 19°19 | 24°32 | 10°49 | 16♁55 | 6°Y17 | 21°Y 2 | 20° 0 | 15°11 | 4♁31 | W 2 | |
| T 3 | 2 48 56 | 10°26'37 | 27°59 | 24°35 | 25°54 | 11° 2 | 19°32 | 24°33 | 10°53 | 16°54 | 6°16 | 21° 0 | 19°57 | 15°18 | 4°29 | T 3 | |
| F 4 | 2 52 52 | 11°26'23 | 11♁53 | 26° 5 | 26°44 | 11°45 | 19°45 | 24°33 | 10°56 | 16°54 | 6°15 | 20°57 | 19°53 | 15°24 | 4°26 | F 4 | |
| S 5 | 2 56 49 | 12°26'11 | 25°23 | 27°34 | 27°33 | 12°28 | 19°58 | 24°33 | 11° 0 | 16°53 | 6°14 | 20°54 | 19°50 | 15°31 | 4°23 | S 5 | |
| S 6 | 3 0 45 | 13°26'01 | 8♁29 | 29° 3 | 28°22 | 13°11 | 20°11 | 24°R33 | 11° 4 | 16°53 | 6°13 | 20°51 | 19°47 | 15°38 | 4°20 | S 6 | |
| M 7 | 3 4 42 | 14°25'53 | 21°13 | 0♁31 | 29°10 | 13°54 | 20°24 | 24°33 | 11° 8 | 16°52 | 6°12 | 20°48 | 19°44 | 15°44 | 4°18 | M 7 | |
| T 8 | 3 8 39 | 15°25'47 | 3♁36 | 1°59 | 29°57 | 14°38 | 20°37 | 24°33 | 11°12 | 16°52 | 6°11 | 20°47 | 19°41 | 15°51 | 4°15 | T 8 | |
| W 9 | 3 12 35 | 16°25'43 | 15°44 | 3°26 | 0♁43 | 15°21 | 20°51 | 24°33 | 11°15 | 16°51 | 6°10 | 20°D46 | 19°37 | 15°58 | 4°12 | W 9 | |
| T 10 | 3 16 32 | 17°25'41 | 27°41 | 4°53 | 1°28 | 16° 4 | 21° 4 | 24°32 | 11°19 | 16°50 | 6°10 | 20°46 | 19°34 | 16° 4 | 4°10 | T 10 | |
| F 11 | 3 20 28 | 18°25'41 | 9♁31 | 6°19 | 2°12 | 16°48 | 21°17 | 24°32 | 11°23 | 16°50 | 6° 9 | 20°48 | 19°31 | 16°11 | 4° 7 | F 11 | |
| S 12 | 3 24 25 | 19°25'44 | 21°20 | 7°44 | 2°55 | 17°31 | 21°30 | 24°31 | 11°27 | 16°49 | 6° 8 | 20°50 | 19°28 | 16°18 | 4° 4 | S 12 | |
| S 13 | 3 28 21 | 20°25'48 | 3♁12 | 9° 9 | 3°37 | 18°15 | 21°43 | 24°31 | 11°30 | 16°48 | 6° 7 | 20°51 | 19°25 | 16°24 | 4° 2 | S 13 | |
| M14 | 3 32 18 | 21°25'55 | 15°12 | 10°32 | 4°18 | 18°59 | 21°56 | 24°30 | 11°34 | 16°47 | 6° 6 | 20°R53 | 19°22 | 16°31 | 3°59 | M14 | |
| T 15 | 3 36 14 | 22°26'03 | 27°23 | 11°55 | 4°58 | 19°43 | 22°10 | 24°29 | 11°38 | 16°47 | 6° 5 | 20°52 | 19°18 | 16°38 | 3°56 | T 15 | |
| W16 | 3 40 11 | 23°26'14 | 9♁47 | 13°17 | 5°37 | 20°26 | 22°23 | 24°28 | 11°42 | 16°46 | 6° 5 | 20°51 | 19°15 | 16°44 | 3°54 | W16 | |
| T 17 | 3 44 7 | 24°26'26 | 22°26 | 14°39 | 6°15 | 21°10 | 22°36 | 24°27 | 11°45 | 16°45 | 6° 4 | 20°48 | 19°12 | 16°51 | 3°51 | T 17 | |
| F 18 | 3 48 4 | 25°26'40 | 5♁21 | 15°59 | 6°51 | 21°54 | 22°49 | 24°25 | 11°49 | 16°44 | 6° 3 | 20°43 | 19° 9 | 16°58 | 3°49 | F 18 | |
| S 19 | 3 52 1 | 26°26'56 | 18°30 | 17°17 | 7°26 | 22°38 | 23° 2 | 24°24 | 11°53 | 16°43 | 6° 3 | 20°37 | 19° 6 | 17° 4 | 3°46 | S 19 | |
| S 20 | 3 55 57 | 27°27'14 | 1♁54 | 18°35 | 8° 0 | 23°22 | 23°15 | 24°22 | 11°56 | 16°42 | 6° 2 | 20°30 | 19° 3 | 17°11 | 3°44 | S 20 | |
| M21 | 3 59 54 | 28°27'33 | 15°30 | 19°51 | 8°32 | 24° 6 | 23°29 | 24°21 | 12° 0 | 16°41 | 6° 1 | 20°25 | 18°59 | 17°18 | 3°41 | M21 | |
| T 22 | 4 3 50 | 29°27'53 | 29°16 | 21° 6 | 9° 3 | 24°51 | 23°42 | 24°19 | 12° 4 | 16°40 | 6° 1 | 20°20 | 18°56 | 17°24 | 3°39 | T 22 | |
| W23 | 4 7 47 | 0♁28'15 | 13♁10 | 22°18 | 9°33 | 25°35 | 23°55 | 24°17 | 12° 7 | 16°39 | 6° 0 | 20°16 | 18°53 | 17°31 | 3°36 | W23 | |
| T 24 | 4 11 43 | 1°28'38 | 27°12 | 23°29 | 10° 0 | 26°19 | 24° 8 | 24°15 | 12°11 | 16°38 | 5°59 | 20°D15 | 18°50 | 17°38 | 3°34 | T 24 | |
| F 25 | 4 15 40 | 2°29'02 | 11♁19 | 24°37 | 10°26 | 27° 4 | 24°21 | 24°13 | 12°15 | 16°37 | 5°59 | 20°15 | 18°47 | 17°44 | 3°31 | F 25 | |
| S 26 | 4 19 37 | 3°29'28 | 25°30 | 25°43 | 10°50 | 27°48 | 24°34 | 24°11 | 12°18 | 16°36 | 5°58 | 20°17 | 18°43 | 17°51 | 3°29 | S 26 | |
| S 27 | 4 23 33 | 4°29'55 | 9♁45 | 26°46 | 11°13 | 28°33 | 24°47 | 24° 9 | 12°22 | 16°35 | 5°58 | 20°18 | 18°40 | 17°58 | 3°27 | S 27 | |
| M28 | 4 27 30 | 5°30'23 | 23°59 | 27°45 | 11°34 | 29°17 | 25° 0 | 24° 7 | 12°25 | 16°33 | 5°57 | 20°R18 | 18°37 | 18° 4 | 3°25 | M28 | |
| T 29 | 4 31 26 | 6°30'52 | 8♁12 | 28°41 | 11°52 | 0♁ 2 | 25°13 | 24° 4 | 12°29 | 16°32 | 5°57 | 20°17 | 18°34 | 18°11 | 3°22 | T 29 | |
| W30 | 4 35 23 | 7♁31'23 | 22♁17 | 29♁33 | 12♁ 9 | 0♁47 | 25♁26 | 24♁ 2 | 12♁32 | 16♁31 | 5°Y56 | 20°Y13 | 18°Y31 | 18°M18 | 3♁20 | W30 | |

Delta T = 17m55s

DECEMBER 2563

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|--------|-------|-------|--------|-------|--------|-------|--------|--------|--------|-------|------|-----|
| T 1 | 4 39 19 | 8♁31'56 | 6♁12 | 0♁19 | 12♁23 | 1♁31 | 25♁39 | 23°R59 | 12♁36 | 16°R30 | 5°R56 | 20°R 7 | 18°Y28 | 18°M24 | 3°R18 | T 1 | |
| F 2 | 4 43 16 | 9°32'29 | 19°53 | 1° 1 | 12°36 | 2°16 | 25°52 | 23♁56 | 12°39 | 16♁28 | 5°Y55 | 19°Y59 | 18°24 | 18°31 | 3♁16 | F 2 | |
| S 3 | 4 47 12 | 10°33'05 | 3♁15 | 1°36 | 12°46 | 3° 1 | 26° 5 | 23°53 | 12°43 | 16°27 | 5°55 | 19°50 | 18°21 | 18°38 | 3°14 | S 3 | |
| S 4 | 4 51 9 | 11°33'42 | 16°18 | 2° 4 | 12°54 | 3°46 | 26°18 | 23°51 | 12°46 | 16°26 | 5°55 | 19°41 | 18°18 | 18°44 | 3°12 | S 4 | |
| M 5 | 4 55 6 | 12°34'20 | 29° 1 | 2°25 | 13° 0 | 4°31 | 26°31 | 23°47 | 12°50 | 16°24 | 5°54 | 19°32 | 18°15 | 18°51 | 3°10 | M 5 | |
| T 6 | 4 59 2 | 13°35'00 | 11♁26 | 2°37 | 13° 4 | 5°16 | 26°44 | 23°44 | 12°53 | 16°23 | 5°54 | 19°25 | 18°12 | 18°58 | 3° 8 | T 6 | |
| W 7 | 5 2 59 | 14°35'41 | 23°34 | 2°R40 | 13°R 5 | 6° 1 | 26°57 | 23°41 | 12°57 | 16°22 | 5°53 | 19°20 | 18° 9 | 19° 4 | 3° 6 | W 7 | |
| T 8 | 5 6 55 | 15°36'24 | 5♁31 | 2°33 | 13° 3 | 6°46 | 27°10 | 23°38 | 13° 0 | 16°20 | 5°53 | 19°18 | 18° 5 | 19°11 | 3° 4 | T 8 | |
| F 9 | 5 10 52 | 16°37'08 | 17°22 | 2°15 | 12°59 | 7°31 | 27°23 | 23°35 | 13° 3 | 16°19 | 5°53 | 19°D17 | 18° 2 | 19°18 | 3° 2 | F 9 | |
| S 10 | 5 14 48 | 17°37'54 | 29°10 | 1°47 | 12°53 | 8°16 | 27°36 | 23°31 | 13° 7 | 16°18 | 5°53 | 19°18 | 17°59 | 19°24 | 3° 0 | S 10 | |
| S 11 | 5 18 45 | 18°38'41 | 11♁ 3 | 1° 7 | 12°45 | 9° 2 | 27°48 | 23°28 | 13°10 | 16°16 | 5°52 | 19°19 | 17°56 | 19°31 | 2°58 | S 11 | |
| M12 | 5 22 41 | 19°39'29 | 23° 5 | 0°17 | 12°33 | 9°47 | 28° 1 | 23°24 | 13°13 | 16°15 | 5°52 | 19°R19 | 17°53 | 19°38 | 2°57 | M12 | |
| T 13 | 5 26 38 | 20°40'19 | 5♁20 | 29♁17 | 12°20 | 10°33 | 28°14 | 23°20 | 13°16 | 16°13 | 5°52 | 19°17 | 17°49 | 19°44 | 2°55 | T 13 | |
| W14 | 5 30 35 | 21°41'11 | 17°53 | 28° 7 | 12° 4 | 11°18 | 28°27 | 23°16 | 13°19 | 16°12 | 5°52 | 19°14 | 17°46 | 19°51 | 2°53 | W14 | |
| T 15 | 5 34 31 | 22°42'04 | 0♁47 | 26°51 | 11°45 | 12° 3 | 28°39 | 23°13 | 13°23 | 16°10 | 5°52 | 19° 7 | 17°43 | 19°58 | 2°52 | T 15 | |
| F 16 | 5 38 28 | 23°42'57 | 14° 1 | 25°30 | 11°25 | 12°49 | 28°52 | 23° 9 | 13°26 | 16° 9 | 5°52 | 18°58 | 17°40 | 20° 4 | 2°50 | F 16 | |
| S 17 | 5 42 24 | 24°43'52 | 27°35 | 24° 7 | 11° 2 | 13°35 | 29° 4 | 23° 5 | 13°29 | 16° 7 | 5°52 | 18°48 | 17°37 | 20°11 | 2°49 | S 17 | |
| S 18 | 5 46 21 | 25°44'48 | 11♁26 | 22°45 | 10°37 | 14°20 | 29°17 | 23° 1 | 13°32 | 16° 5 | 5°51 | 18°36 | 17°34 | 20°18 | 2°47 | S 18 | |
| M19 | 5 50 17 | 26°45'45 | 25°30 | 21°27 | 10°10 | 15° 6 | 29°29 | 22°57 | 13°35 | 16° 4 | 5°51 | 18°25 | 17°30 | 20°24 | 2°46 | M19 | |
| T 20 | 5 54 14 | 27°46'43 | 9♁41 | 20°14 | 9°41 | 15°52 | 29°42 | 22°52 | 13°38 | 16° 2 | 5°D51 | 18°15 | 17°27 | 20°31 | 2°45 | T 20 | |
| W21 | 5 58 11 | 28°47'41 | 23°56 | 19°10 | 9°11 | 16°38 | 29°54 | 22°48 | 13°41 | 16° 1 | 5°51 | 18° 8 | 17°24 | 20°38 | 2°43 | W21 | |
| T 22 | 6 2 7 | 29°48'39 | 8♁10 | 18°15 | 8°38 | 17°24 | 0♁ 6 | 22°44 | 13°44 | 15°59 | 5°51 | 18° 4 | 17°21 | 20°44 | 2°42 | T 22 | |
| F 23 | 6 6 4 | 0♁49'39 | 22°20 | 17°30 | 8° 5 | 18° 9 | 0°19 | 22°39 | 13°47 | 15°57 | 5°51 | 18° 2 | 17°18 | 20°51 | 2°41 | F 23 | |
| S 24 | 6 10 0 | 1°50'38 | 6°Y24 | 16°57 | 7°30 | 18°55 | 0°31 | 22°35 | 13°49 | 15°56 | 5°52 | 18°D 2 | 17°15 | 20°58 | 2°40 | S 24 | |
| S 25 | 6 13 57 | 2°51'38 | 20°23 | 16°35 | 6°55 | 19°41 | 0°43 | 22°30 | 13°52 | 15°54 | 5°52 | 18°R 2 | 17°11 | 21° 4 | 2°39 | S 25 | |
| M26 | 6 17 53 | 3°52'39 | 4♁16 | 16°24 | 6°19 | 20°27 | 0°55 | 22°26 | 13°55 | 15°53 | 5°52 | 18° 1 | 17° 8 | 21°11 | 2°38 | M26 | |
| T 27 | 6 21 50 | 4°53'39 | 18° 2 | 16°D23 | 5°42 | 21°14 | 1° 7 | 22°21 | 13°58 | 15°51 | 5°52 | 17°58 | 17° 5 | 21°18 | 2°37 | T 27 | |
| W28 | 6 25 46 | 5°54'41 | 1♁41 | 16°32 | 5° 6 | 22° 0 | 1°19 | 22°17 | 14° 0 | 15°49 | 5°52 | 17°52 | 17° 2 | 21°24 | 2°36 | W28 | |
| T 29 | 6 29 43 | 6°55'43 | 15°10 | 16°50 | 4°29 | 22°46 | 1°31 | 22°12 | 14° 3 | 15°48 | 5°52 | 17°43 | 16°59 | 21°31 | 2°35 | T 29 | |
| F 30 | 6 33 40 | 7°56'45 | 28°28 | 17°16 | 3°53 | 23°32 | 1°43 | 22° 7 | 14° 6 | 15°46 | 5°53 | 17°32 | 16°55 | 21°38 | 2°34 | F 30 | |
| S 31 | 6 37 36 | 8°57'48 | 11♁34 | 17♁48 | 3♁18 | 24♁18 | 1♁55 | 22♁ 3 | 14♁ 8 | 15♁44 | 5°Y53 | 17°Y18 | 16°Y52 | 21°M44 | 2♁33 | S 31 | |

Delta T = 17m55s

ASTRODIENST EPHEMERIS for the year 2564
geocentric

JANUARY 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|---------|--------|--------|-------|------|--------|--------|--------|-------|--------|--------|--------|-------|------|-----|
| S 1 | 6 41 33 | 9°35'51 | 24°24 | 18°28 | 2°R43 | 25°35 | 2°27 | 21°R58 | 14°M11 | 15°R42 | 5°V53 | 17°R 4 | 16°V49 | 21°M51 | 2°R33 | S 1 | |
| M 2 | 6 45 29 | 10°59'55 | 6°L59 | 19°13 | 2°S10 | 25°51 | 2°18 | 21°S53 | 14°13 | 15°S41 | 5°S53 | 16°V51 | 16°46 | 21°57 | 2°S32 | M 2 | |
| T 3 | 6 49 26 | 12° 0'59 | 19°18 | 20° 3 | 1°37 | 26°37 | 2°30 | 21°48 | 14°16 | 15°S39 | 5°S54 | 16°40 | 16°43 | 22° 4 | 2°S32 | T 3 | |
| W 4 | 6 53 22 | 13° 2'04 | 1°M25 | 20°58 | 1° 7 | 27°24 | 2°41 | 21°43 | 14°18 | 15°S37 | 5°S54 | 16°31 | 16°40 | 22°11 | 2°S31 | W 4 | |
| T 5 | 6 57 19 | 14° 3'09 | 13°20 | 21°57 | 0°38 | 28°10 | 2°53 | 21°38 | 14°21 | 15°S36 | 5°S54 | 16°26 | 16°36 | 22°17 | 2°S31 | T 5 | |
| F 6 | 7 1 15 | 15° 4'15 | 25°10 | 22°59 | 0°11 | 28°57 | 3° 4 | 21°34 | 14°23 | 15°S34 | 5°S55 | 16°23 | 16°33 | 22°24 | 2°S30 | F 6 | |
| S 7 | 7 5 12 | 16° 5'21 | 6°L57 | 24° 5 | 29°24 | 29°46 | 3°16 | 21°29 | 14°25 | 15°S32 | 5°S55 | 16°21 | 16°30 | 22°31 | 2°S30 | S 7 | |
| S 8 | 7 9 9 | 17° 6'28 | 18°48 | 25°13 | 29°23 | 0°23 | 3°27 | 21°24 | 14°27 | 15°S31 | 5°S56 | 16°21 | 16°27 | 22°37 | 2°S29 | S 8 | |
| M 9 | 7 13 5 | 18° 7'35 | 0°M48 | 26°24 | 29° 3 | 1°16 | 3°38 | 21°19 | 14°30 | 15°S29 | 5°S56 | 16°21 | 16°24 | 22°44 | 2°S29 | M 9 | |
| T 10 | 7 17 2 | 19° 8'43 | 13° 4 | 27°37 | 28°45 | 2° 3 | 3°49 | 21°14 | 14°32 | 15°S27 | 5°S57 | 16°19 | 16°21 | 22°51 | 2°S29 | T 10 | |
| W11 | 7 20 58 | 20° 9'52 | 25°39 | 28°51 | 28°29 | 2°50 | 4° 0 | 21° 9 | 14°34 | 15°S26 | 5°S57 | 16°15 | 16°17 | 22°57 | 2°S29 | W11 | |
| T 12 | 7 24 55 | 21°11'00 | 8°27 | 0°S 8 | 28°16 | 3°36 | 4°11 | 21° 4 | 14°36 | 15°S24 | 5°S58 | 16° 9 | 16°14 | 23° 4 | 2°S29 | T 12 | |
| F 13 | 7 28 51 | 22°12'09 | 22° 2 | 1°26 | 28° 5 | 4°23 | 4°22 | 20°59 | 14°38 | 15°S22 | 5°S58 | 15°59 | 16°11 | 23°11 | 2°D29 | F 13 | |
| S 14 | 7 32 48 | 23°13'18 | 5°S52 | 2°45 | 27°57 | 5°10 | 4°33 | 20°54 | 14°40 | 15°S20 | 5°S59 | 15°48 | 16° 8 | 23°17 | 2°S29 | S 14 | |
| S 15 | 7 36 44 | 24°14'27 | 20° 4 | 4° 6 | 27°51 | 5°57 | 4°43 | 20°49 | 14°42 | 15°S19 | 5°S59 | 15°35 | 16° 5 | 23°24 | 2°S29 | S 15 | |
| M16 | 7 40 41 | 25°15'36 | 4°23 | 5°28 | 27°47 | 6°44 | 4°54 | 20°44 | 14°44 | 15°S17 | 6° 0 | 15°23 | 16° 1 | 23°31 | 2°S29 | M16 | |
| T 17 | 7 44 38 | 26°16'45 | 19°13 | 6°50 | 27°D47 | 7°31 | 5° 5 | 20°39 | 14°45 | 15°S15 | 6° 1 | 15°12 | 15°58 | 23°37 | 2°S29 | T 17 | |
| W18 | 7 48 34 | 27°17'54 | 3°25 | 8°14 | 27°48 | 8°17 | 5°15 | 20°34 | 14°47 | 15°S14 | 6° 1 | 15° 4 | 15°55 | 23°44 | 2°S29 | W18 | |
| T 19 | 7 52 31 | 28°19'02 | 18°32 | 9°39 | 27°52 | 9° 4 | 5°25 | 20°29 | 14°49 | 15°S12 | 6° 2 | 14°59 | 15°52 | 23°51 | 2°S30 | T 19 | |
| F 20 | 7 56 27 | 29°20'10 | 2°V59 | 11° 4 | 27°58 | 9°51 | 5°35 | 20°24 | 14°50 | 15°S10 | 6° 3 | 14°57 | 15°49 | 23°57 | 2°S30 | F 20 | |
| S 21 | 8 0 24 | 0°21'17 | 17°13 | 12°30 | 28° 7 | 10°38 | 5°46 | 20°20 | 14°52 | 15°S 9 | 6° 3 | 14°D57 | 15°46 | 24° 4 | 2°S31 | S 21 | |
| S 22 | 8 4 20 | 1°22'23 | 1°S11 | 13°57 | 28°17 | 11°25 | 5°56 | 20°15 | 14°54 | 15°S 7 | 6° 4 | 14°R57 | 15°42 | 24°11 | 2°S31 | S 22 | |
| M23 | 8 8 17 | 2°23'29 | 14°56 | 15°24 | 28°30 | 12°12 | 6° 6 | 20°10 | 14°55 | 15°S 6 | 6° 5 | 14°56 | 15°39 | 24°17 | 2°S32 | M23 | |
| T 24 | 8 12 13 | 3°24'35 | 28°27 | 16°53 | 28°45 | 12°59 | 6°15 | 20° 5 | 14°57 | 15°S 4 | 6° 6 | 14°54 | 15°36 | 24°24 | 2°S32 | T 24 | |
| W25 | 8 16 10 | 4°25'39 | 11°II45 | 18°21 | 29° 3 | 13°47 | 6°25 | 20° 0 | 14°58 | 15°S 2 | 6° 7 | 14°49 | 15°33 | 24°31 | 2°S33 | W25 | |
| T 26 | 8 20 7 | 5°26'43 | 24°51 | 19°51 | 29°22 | 14°34 | 6°35 | 19°56 | 14°59 | 15°S 1 | 6° 7 | 14°41 | 15°30 | 24°37 | 2°S34 | T 26 | |
| F 27 | 8 24 3 | 6°27'47 | 7°S47 | 21°21 | 29°43 | 15°21 | 6°44 | 19°51 | 15° 1 | 14°59 | 6° 8 | 14°30 | 15°27 | 24°44 | 2°S34 | F 27 | |
| S 28 | 8 28 0 | 7°28'50 | 20°30 | 22°51 | 0°S 6 | 16° 8 | 6°54 | 19°47 | 15° 2 | 14°58 | 6° 9 | 14°18 | 15°23 | 24°51 | 2°S35 | S 28 | |
| S 29 | 8 31 56 | 8°29'52 | 3°L 3 | 24°23 | 0°30 | 16°55 | 7° 3 | 19°42 | 15° 3 | 14°56 | 6°10 | 14° 5 | 15°20 | 24°57 | 2°S36 | S 29 | |
| M30 | 8 35 53 | 9°30'53 | 15°24 | 25°54 | 0°57 | 17°42 | 7°12 | 19°37 | 15° 4 | 14°55 | 6°11 | 13°53 | 15°17 | 25° 4 | 2°S37 | M30 | |
| T 31 | 8 39 49 | 10°31'54 | 27°L34 | 27°S27 | 1°S25 | 18°30 | 7°21 | 19°S33 | 15°M 5 | 14°S53 | 6°V12 | 13°V43 | 15°V14 | 25°M11 | 2°S38 | T 31 | |

Delta T = 17m56s

FEBRUARY 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|------|-----|
| W 1 | 8 43 46 | 11°32'54 | 9°M34 | 29°S 0 | 1°S55 | 19°M17 | 7°23 | 19°R29 | 15°M 6 | 14°R52 | 6°V13 | 13°R35 | 15°V11 | 25°M17 | 2°S39 | W 1 | |
| T 2 | 8 47 43 | 12°33'54 | 21°27 | 0°S33 | 2°26 | 20° 4 | 7°39 | 19°S24 | 15° 7 | 14°S50 | 6°14 | 13°V29 | 15° 7 | 25°24 | 2°40 | T 2 | |
| F 3 | 8 51 39 | 13°34'53 | 3°L15 | 2° 7 | 2°59 | 20°51 | 7°48 | 19°20 | 15° 8 | 14°49 | 6°15 | 13°Z27 | 15° 4 | 25°30 | 2°41 | F 3 | |
| S 4 | 8 55 36 | 14°35'52 | 15° 1 | 3°42 | 3°33 | 21°39 | 7°56 | 19°16 | 15° 9 | 14°47 | 6°16 | 13°D26 | 15° 1 | 25°37 | 2°42 | S 4 | |
| S 5 | 8 59 32 | 15°36'49 | 26°51 | 5°17 | 4° 9 | 22°26 | 8° 5 | 19°11 | 15°10 | 14°46 | 6°17 | 13°Z27 | 14°58 | 25°44 | 2°44 | S 5 | |
| M 6 | 9 3 29 | 16°37'47 | 8°M50 | 6°53 | 4°46 | 23°13 | 8°13 | 19° 7 | 15°10 | 14°44 | 6°18 | 13°Z28 | 14°55 | 25°50 | 2°45 | M 6 | |
| T 7 | 9 7 25 | 17°38'44 | 21° 2 | 8°30 | 5°24 | 24° 1 | 8°21 | 19° 3 | 15°11 | 14°43 | 6°19 | 13°R28 | 14°52 | 25°57 | 2°46 | T 7 | |
| W 8 | 9 11 22 | 18°39'40 | 3°23 | 10° 7 | 6° 4 | 24°48 | 8°29 | 18°59 | 15°12 | 14°42 | 6°20 | 13°Z27 | 14°48 | 26° 4 | 2°48 | W 8 | |
| T 9 | 9 15 18 | 19°40'36 | 16°29 | 11°45 | 6°45 | 25°35 | 8°37 | 18°55 | 15°12 | 14°40 | 6°21 | 13°Z23 | 14°45 | 26°10 | 2°49 | T 9 | |
| F 10 | 9 19 15 | 20°41'31 | 29°52 | 13°24 | 7°26 | 26°23 | 8°45 | 18°52 | 15°13 | 14°39 | 6°22 | 13°18 | 14°42 | 26°17 | 2°51 | F 10 | |
| S 11 | 9 23 12 | 21°42'25 | 13°S43 | 15° 3 | 8° 9 | 27°10 | 8°53 | 18°48 | 15°13 | 14°38 | 6°23 | 13°10 | 14°39 | 26°24 | 2°52 | S 11 | |
| S 12 | 9 27 8 | 22°43'19 | 28° 3 | 16°43 | 8°53 | 27°57 | 9° 1 | 18°44 | 15°14 | 14°37 | 6°24 | 13° 2 | 14°36 | 26°30 | 2°54 | S 12 | |
| M13 | 9 31 5 | 23°44'11 | 12°24 | 18°24 | 9°38 | 28°45 | 9° 8 | 18°41 | 15°14 | 14°35 | 6°26 | 12°54 | 14°33 | 26°37 | 2°56 | M13 | |
| T 14 | 9 35 1 | 24°45'03 | 27°42 | 20° 6 | 10°24 | 29°32 | 9°15 | 18°37 | 15°14 | 14°34 | 6°27 | 12°46 | 14°29 | 26°44 | 2°57 | T 14 | |
| W15 | 9 38 58 | 25°45'53 | 12°24 | 21°48 | 11°11 | 0°20 | 9°22 | 18°34 | 15°14 | 14°33 | 6°28 | 12°41 | 14°26 | 26°50 | 2°59 | W15 | |
| T 16 | 9 42 54 | 26°46'42 | 27°48 | 23°31 | 11°59 | 1° 7 | 9°29 | 18°30 | 15°15 | 14°32 | 6°29 | 12°38 | 14°23 | 26°57 | 3° 1 | T 16 | |
| F 17 | 9 46 51 | 27°47'30 | 12°V38 | 25°15 | 12°48 | 1°55 | 9°36 | 18°27 | 15°15 | 14°31 | 6°30 | 12°D37 | 14°20 | 27° 4 | 3° 3 | F 17 | |
| S 18 | 9 50 47 | 28°48'16 | 27°11 | 27° 0 | 13°37 | 2°42 | 9°43 | 18°24 | 15°15 | 14°29 | 6°32 | 12°38 | 14°17 | 27°10 | 3° 5 | S 18 | |
| S 19 | 9 54 44 | 29°49'01 | 11°S23 | 28°45 | 14°27 | 3°30 | 9°50 | 18°21 | 15°R15 | 14°28 | 6°33 | 12°39 | 14°13 | 27°17 | 3° 7 | S 19 | |
| M20 | 9 58 41 | 0°24'44 | 25°14 | 0°23 | 15°18 | 4°17 | 9°56 | 18°18 | 15°15 | 14°27 | 6°34 | 12°R40 | 14°10 | 27°24 | 3° 9 | M20 | |
| T 21 | 10 2 37 | 1°50'25 | 8°II43 | 2°18 | 16°10 | 5° 4 | 10° 2 | 18°15 | 15°15 | 14°26 | 6°35 | 12°40 | 14° 7 | 27°30 | 3°11 | T 21 | |
| W22 | 10 6 34 | 2°51'06 | 21°54 | 4° 6 | 17° 2 | 5°52 | 10° 8 | 18°12 | 15°14 | 14°25 | 6°37 | 12°38 | 14° 4 | 27°37 | 3°13 | W22 | |
| T 23 | 10 10 30 | 3°51'44 | 4°S47 | 5°54 | 17°55 | 6°39 | 10°14 | 18° 9 | 15°14 | 14°24 | 6°38 | 12°34 | 14° 1 | 27°44 | 3°15 | T 23 | |
| F 24 | 10 14 27 | 4°52'21 | 17°26 | 7°43 | 18°49 | 7°27 | 10°20 | 18° 7 | 15°14 | 14°23 | 6°39 | 12°29 | 13°58 | 27°50 | 3°17 | F 24 | |
| S 25 | 10 18 23 | 5°52'56 | 29°53 | 9°33 | 19°43 | 8°14 | 10°26 | 18° 4 | 15°14 | 14°22 | 6°41 | 12°23 | 13°54 | 27°57 | 3°19 | S 25 | |
| S 26 | 10 22 20 | 6°53'30 | 12°L 9 | 11°24 | 20°38 | 9° 2 | 10°31 | 18° 2 | 15°13 | 14°21 | 6°42 | 12°16 | 13°51 | 28° 3 | 3°22 | S 26 | |
| M27 | 10 26 16 | 7°54'02 | 24°16 | 13°15 | 21°33 | 9°49 | 10°37 | 17°59 | 15°13 | 14°20 | 6°43 | 12°10 | 13°48 | 28°10 | 3°24 | M27 | |
| T 28 | 10 30 13 | 8°54'32 | 6°M15 | 15° 6 | 22°29 | 10°37 | 10°42 | 17°57 | 15°12 | 14°20 | 6°45 | 12° 4 | 13°45 | 28°17 | 3°26 | T 28 | |
| W29 | 10 34 10 | 9°55'01 | 18°M 8 | 16°28 | 23°S26 | 11°24 | 10°47 | 17°S55 | 15°M12 | 14°S19 | 6°V46 | 12°V 0 | 13°V42 | 28°M23 | 3°S29 | W29 | |

Delta T = 17m56s

ASTRODIENST EPHEMERIS for the year 2564
geocentric

MARCH 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|--------|--------|--------|-------|--------|--------|-------|-------|------|
| T 1 | 10 38 6 | 10♌55'28 | 29♍57 | 18♎50 | 24♏23 | 12♐12 | 10♑52 | 17°R53 | 15°R11 | 14°R18 | 6♒47 | 11°R58 | 13♓38 | 28♈30 | 3♉31 | T 1 |
| F 2 | 10 42 3 | 11°55'54 | 11♌45 | 20°42 | 25°20 | 12°59 | 10°56 | 17♌51 | 15♍11 | 14♎17 | 6°49 | 11°D57 | 13°35 | 28°37 | 3°34 | F 2 |
| S 3 | 10 45 59 | 12°56'18 | 23°33 | 22°34 | 26°18 | 13°46 | 11° 1 | 17°49 | 15°10 | 14°17 | 6°50 | 11♒57 | 13°32 | 28°43 | 3°36 | S 3 |
| S 4 | 10 49 56 | 13°56'41 | 5♍25 | 24°25 | 27°17 | 14°34 | 11° 5 | 17°48 | 15° 9 | 14°16 | 6°52 | 11°59 | 13°29 | 28°50 | 3°39 | S 4 |
| M 5 | 10 53 52 | 14°57'03 | 17°25 | 26°16 | 28°16 | 15°21 | 11°10 | 17°46 | 15° 8 | 14°15 | 6°53 | 12° 1 | 13°26 | 28°57 | 3°41 | M 5 |
| T 6 | 10 57 49 | 15°57'23 | 29°37 | 28° 6 | 29°15 | 16° 9 | 11°14 | 17°45 | 15° 7 | 14°15 | 6°54 | 12° 2 | 13°23 | 29° 3 | 3°44 | T 6 |
| W 7 | 11 1 45 | 16°57'42 | 12♌6 | 29°55 | 0♎15 | 16°56 | 11°17 | 17°43 | 15° 7 | 14°14 | 6°56 | 12°R 3 | 13°19 | 29°10 | 3°47 | W 7 |
| T 8 | 11 5 42 | 17°58'00 | 24°57 | 1♒42 | 1°15 | 17°43 | 11°21 | 17°42 | 15° 6 | 14°13 | 6°57 | 12° 3 | 13°16 | 29°17 | 3°50 | T 8 |
| F 9 | 11 9 38 | 18°58'16 | 8♌12 | 3°27 | 2°15 | 18°31 | 11°25 | 17°41 | 15° 5 | 14°13 | 6°59 | 12° 2 | 13°13 | 29°23 | 3°52 | F 9 |
| S 10 | 11 13 35 | 19°58'31 | 21°55 | 5° 9 | 3°16 | 19°18 | 11°28 | 17°40 | 15° 4 | 14°12 | 7° 0 | 12° 0 | 13°10 | 29°30 | 3°55 | S 10 |
| S 11 | 11 17 32 | 20°58'44 | 6♋6 | 6°48 | 4°18 | 20° 6 | 11°31 | 17°39 | 15° 2 | 14°12 | 7° 2 | 11°57 | 13° 7 | 29°37 | 3°58 | S 11 |
| M12 | 11 21 28 | 21°58'56 | 20°43 | 8°24 | 5°19 | 20°53 | 11°34 | 17°38 | 15° 1 | 14°11 | 7° 3 | 11°54 | 13° 4 | 29°43 | 4° 1 | M12 |
| T 13 | 11 25 25 | 22°59'06 | 5♌41 | 9°55 | 6°21 | 21°40 | 11°37 | 17°37 | 15° 0 | 14°11 | 7° 5 | 11°52 | 13° 0 | 29°50 | 4° 4 | T 13 |
| W14 | 11 29 21 | 23°59'14 | 20°51 | 11°22 | 7°23 | 22°28 | 11°39 | 17°37 | 14°59 | 14°11 | 7° 6 | 11°50 | 12°57 | 29°57 | 4° 7 | W14 |
| T 15 | 11 33 18 | 24°59'20 | 6♒5 | 12°43 | 8°26 | 23°15 | 11°42 | 17°36 | 14°58 | 14°10 | 7° 8 | 11°D49 | 12°54 | 0♉3 | 4° 9 | T 15 |
| F 16 | 11 37 14 | 25°59'25 | 21°12 | 13°59 | 9°29 | 24° 2 | 11°44 | 17°36 | 14°56 | 14°10 | 7° 9 | 11°49 | 12°51 | 0°10 | 4°12 | F 16 |
| S 17 | 11 41 11 | 26°59'28 | 6♉3 | 15° 8 | 10°32 | 24°49 | 11°46 | 17°36 | 14°55 | 14°10 | 7°11 | 11°50 | 12°48 | 0°16 | 4°15 | S 17 |
| S 18 | 11 45 7 | 27°59'28 | 20°33 | 16°10 | 11°35 | 25°37 | 11°48 | 17°35 | 14°53 | 14° 9 | 7°12 | 11°51 | 12°44 | 0°23 | 4°19 | S 18 |
| M19 | 11 49 4 | 28°59'27 | 4♍18 | 17° 5 | 12°39 | 26°24 | 11°50 | 17°D35 | 14°52 | 14° 9 | 7°14 | 11°52 | 12°41 | 0°30 | 4°22 | M19 |
| T 20 | 11 53 4 | 29°59'23 | 18°17 | 17°52 | 13°43 | 27°11 | 11°51 | 17°36 | 14°50 | 14° 9 | 7°15 | 11°53 | 12°38 | 0°36 | 4°25 | T 20 |
| W21 | 11 56 57 | 0♒59'18 | 1♌31 | 18°31 | 14°47 | 27°58 | 11°53 | 17°36 | 14°49 | 14° 9 | 7°17 | 11°R53 | 12°35 | 0°43 | 4°28 | W21 |
| T 22 | 12 0 54 | 1°59'10 | 14°22 | 19° 1 | 15°51 | 28°46 | 11°54 | 17°36 | 14°47 | 14° 9 | 7°18 | 11°53 | 12°32 | 0°50 | 4°31 | T 22 |
| F 23 | 12 4 50 | 2°59'00 | 26°55 | 19°23 | 16°56 | 29°33 | 11°55 | 17°36 | 14°46 | 14° 9 | 7°20 | 11°52 | 12°29 | 0°56 | 4°34 | F 23 |
| S 24 | 12 8 47 | 3°58'47 | 9♌13 | 19°37 | 18° 1 | 0♒20 | 11°55 | 17°37 | 14°44 | 14° 9 | 7°21 | 11°51 | 12°25 | 1° 3 | 4°37 | S 24 |
| S 25 | 12 12 43 | 4°58'33 | 21°18 | 19°R42 | 19° 6 | 1° 7 | 11°56 | 17°38 | 14°42 | 14°D 9 | 7°23 | 11°50 | 12°22 | 1°10 | 4°41 | S 25 |
| M26 | 12 16 40 | 5°58'16 | 3♍15 | 19°39 | 20°11 | 1°54 | 11°56 | 17°38 | 14°40 | 14° 9 | 7°24 | 11°49 | 12°19 | 1°16 | 4°44 | M26 |
| T 27 | 12 20 36 | 6°57'57 | 15° 6 | 19°27 | 21°16 | 2°41 | 11°57 | 17°39 | 14°39 | 14° 9 | 7°26 | 11°49 | 12°16 | 1°23 | 4°47 | T 27 |
| W28 | 12 24 33 | 7°57'36 | 26°55 | 19° 8 | 22°22 | 3°28 | 11°R57 | 17°40 | 14°37 | 14° 9 | 7°27 | 11°48 | 12°13 | 1°30 | 4°50 | W28 |
| T 29 | 12 28 30 | 8°57'13 | 8♌43 | 18°42 | 23°28 | 4°15 | 11°56 | 17°41 | 14°35 | 14° 9 | 7°29 | 11°D48 | 12°10 | 1°36 | 4°54 | T 29 |
| F 30 | 12 32 26 | 9°56'48 | 20°32 | 18° 9 | 24°34 | 5° 2 | 11°56 | 17°43 | 14°33 | 14° 9 | 7°30 | 11°48 | 12° 6 | 1°43 | 4°57 | F 30 |
| S 31 | 12 36 23 | 10°56'21 | 2♍25 | 17°R30 | 25°40 | 5°R49 | 11°55 | 17°44 | 14°31 | 14°D 9 | 7°R32 | 11°R48 | 12°R 3 | 1°50 | 5°R 0 | S 31 |

Delta T = 17m56s

APRIL 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|--------|--------|--------|--------|--------|-------|--------|--------|-------|--------|--------|-------|-------|------|
| S 1 | 12 40 19 | 11°55'53 | 14♍24 | 16°R47 | 26°47 | 6♒36 | 11°R55 | 17°45 | 14°R29 | 14°D10 | 7°R33 | 11°R48 | 12°R 0 | 1°56 | 5°R 4 | S 1 |
| M 2 | 12 44 16 | 12°55'22 | 26°32 | 15°R59 | 27°53 | 7°23 | 11°54 | 17°47 | 14°R27 | 14°10 | 7°35 | 11°R48 | 11°57 | 2° 3 | 5° 7 | M 2 |
| T 3 | 12 48 12 | 13°54'50 | 8♌31 | 15°10 | 29° 0 | 8°10 | 11°53 | 17°48 | 14°25 | 14°10 | 7°36 | 11°48 | 11°54 | 2° 9 | 5°11 | T 3 |
| W 4 | 12 52 9 | 14°54'16 | 21°24 | 14°18 | 0♎7 | 8°57 | 11°51 | 17°50 | 14°23 | 14°10 | 7°38 | 11°48 | 11°50 | 2°16 | 5°14 | W 4 |
| T 5 | 12 56 5 | 15°53'40 | 4♌15 | 13°26 | 1°14 | 9°43 | 11°50 | 17°52 | 14°21 | 14°11 | 7°39 | 11°47 | 11°47 | 2°23 | 5°18 | T 5 |
| F 6 | 13 0 2 | 16°53'03 | 17°26 | 12°34 | 2°21 | 10°30 | 11°48 | 17°54 | 14°19 | 14°11 | 7°41 | 11°D47 | 11°44 | 2°29 | 5°21 | F 6 |
| S 7 | 13 3 59 | 17°52'24 | 0♎59 | 11°44 | 3°29 | 11°17 | 11°46 | 17°56 | 14°16 | 14°12 | 7°42 | 11°48 | 11°41 | 2°36 | 5°24 | S 7 |
| S 8 | 13 7 55 | 18°51'43 | 14°57 | 10°56 | 4°36 | 12° 4 | 11°44 | 17°58 | 14°14 | 14°12 | 7°44 | 11°48 | 11°38 | 2°43 | 5°28 | S 8 |
| M 9 | 13 11 52 | 19°51'00 | 29°19 | 10°11 | 5°44 | 12°50 | 11°42 | 18° 0 | 14°12 | 14°13 | 7°45 | 11°49 | 11°35 | 2°49 | 5°32 | M 9 |
| T 10 | 13 15 48 | 20°50'16 | 14♌2 | 9°31 | 6°52 | 13°37 | 11°40 | 18° 3 | 14°10 | 14°13 | 7°47 | 11°49 | 11°31 | 2°56 | 5°35 | T 10 |
| W11 | 13 19 45 | 21°49'29 | 29° 0 | 8°54 | 8° 0 | 14°24 | 11°37 | 18° 5 | 14° 7 | 14°14 | 7°48 | 11°50 | 11°28 | 3° 3 | 5°39 | W11 |
| T 12 | 13 23 41 | 22°48'41 | 14°R 7 | 8°23 | 9° 8 | 15°10 | 11°34 | 18° 8 | 14° 5 | 14°14 | 7°50 | 11°R50 | 11°25 | 3° 9 | 5°42 | T 12 |
| F 13 | 13 27 38 | 23°47'51 | 29°14 | 7°57 | 10°16 | 15°57 | 11°31 | 18°11 | 14° 3 | 14°15 | 7°51 | 11°50 | 11°22 | 3°16 | 5°46 | F 13 |
| S 14 | 13 31 34 | 24°46'59 | 14♉12 | 7°36 | 11°24 | 16°43 | 11°28 | 18°13 | 14° 0 | 14°16 | 7°53 | 11°49 | 11°19 | 3°23 | 5°49 | S 14 |
| S 15 | 13 35 31 | 25°46'04 | 28°52 | 7°20 | 12°32 | 17°30 | 11°25 | 18°16 | 13°58 | 14°16 | 7°54 | 11°47 | 11°15 | 3°29 | 5°53 | S 15 |
| M16 | 13 39 28 | 26°45'08 | 13♍8 | 7°10 | 13°41 | 18°16 | 11°21 | 18°19 | 13°56 | 14°17 | 7°56 | 11°45 | 11°12 | 3°36 | 5°56 | M16 |
| T 17 | 13 43 24 | 27°44'10 | 26°58 | 7°D 6 | 14°49 | 19° 3 | 11°18 | 18°22 | 13°53 | 14°18 | 7°57 | 11°43 | 11° 9 | 3°42 | 6° 0 | T 17 |
| W18 | 13 47 21 | 28°43'09 | 10♌20 | 7° 7 | 15°58 | 19°49 | 11°14 | 18°26 | 13°51 | 14°19 | 7°59 | 11°42 | 11° 6 | 3°49 | 6° 4 | W18 |
| T 19 | 13 51 17 | 29°42'06 | 23°17 | 7°13 | 17° 7 | 20°36 | 11°10 | 18°29 | 13°48 | 14°19 | 8° 0 | 11°41 | 11° 3 | 3°56 | 6° 7 | T 19 |
| F 20 | 13 55 14 | 0♉41'00 | 5♌51 | 7°25 | 18°16 | 21°22 | 11° 6 | 18°32 | 13°46 | 14°20 | 8° 1 | 11°D41 | 11° 0 | 4° 2 | 6°11 | F 20 |
| S 21 | 13 59 10 | 1°39'53 | 18° 7 | 7°41 | 19°25 | 22° 8 | 11° 2 | 18°36 | 13°43 | 14°21 | 8° 3 | 11°42 | 10°56 | 4° 9 | 6°14 | S 21 |
| S 22 | 14 3 7 | 2°38'43 | 0♎8 | 8° 2 | 20°34 | 22°54 | 10°57 | 18°39 | 13°41 | 14°22 | 8° 4 | 11°43 | 10°53 | 4°16 | 6°18 | S 22 |
| M23 | 14 7 3 | 3°37'31 | 12° 1 | 8°28 | 21°43 | 23°40 | 10°52 | 18°43 | 13°38 | 14°23 | 8° 6 | 11°45 | 10°50 | 4°22 | 6°22 | M23 |
| T 24 | 14 11 0 | 4°36'16 | 23°49 | 8°58 | 22°52 | 24°27 | 10°48 | 18°47 | 13°36 | 14°24 | 8° 7 | 11°46 | 10°47 | 4°29 | 6°25 | T 24 |
| W25 | 14 14 57 | 5°35'00 | 5♌36 | 9°32 | 24° 1 | 25°13 | 10°43 | 18°51 | 13°33 | 14°25 | 8° 8 | 11°47 | 10°44 | 4°36 | 6°29 | W25 |
| T 26 | 14 18 53 | 6°33'41 | 17°25 | 10°10 | 25°11 | 25°59 | 10°38 | 18°54 | 13°31 | 14°26 | 8°10 | 11°R47 | 10°41 | 4°42 | 6°33 | T 26 |
| F 27 | 14 22 50 | 7°32'21 | 29°19 | 10°52 | 26°20 | 26°45 | 10°33 | 18°59 | 13°28 | 14°27 | 8°11 | 11°46 | 10°37 | 4°49 | 6°36 | F 27 |
| S 28 | 14 26 46 | 8°30'58 | 11♍21 | 11°38 | 27°30 | 27°31 | 10°27 | 19° 3 | 13°26 | 14°28 | 8°12 | 11°44 | 10°34 | 4°56 | 6°40 | S 28 |
| S 29 | 14 30 43 | 9°29'34 | 23°32 | 12°27 | 28°39 | 28°17 | 10°22 | 19° 7 | 13°23 | 14°29 | 8°14 | 11°40 | 10°31 | 5° 2 | 6°43 | S 29 |
| M30 | 14 34 39 | 10°28'08 | 5♌53 | 13°R19 | 29°R49 | 29°R 3 | 10°16 | 19°11 | 13°21 | 14°31 | 8°R15 | 11°R35 | 10°R28 | 5°R 9 | 6°R47 | M30 |

Delta T = 17m57s

ASTRODIENST EPHEMERIS for the year 2564
geocentric

MAY 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|-------|------|--------|-------|------|------|------|---|---|---|---|---|---|---|-----|
| T 1 | 14 38 36 | 11♌26'40 | 18♋27 | 14♍15 | 0♍59 | 29♍48 | 10°R10 | 19♌16 | 13°R18 | 14♌32 | 8♍16 | 11°R30 | 10♍25 | 5♌16 | 6♌51 | T 1 | | | | | | | | |
| W 2 | 14 42 32 | 12°25'11 | 1♌13 | 15°13 | 2° 9 | 0♌34 | 10♋ 4 | 19°20 | 13♌16 | 14°33 | 8°18 | 11°R25 | 10°21 | 5°22 | 6°54 | W 2 | | | | | | | | |
| T 3 | 14 46 29 | 13°23'39 | 14°13 | 16°14 | 3°19 | 1°20 | 9°58 | 19°25 | 13°13 | 14°34 | 8°19 | 11°22 | 10°18 | 5°29 | 6°58 | T 3 | | | | | | | | |
| F 4 | 14 50 26 | 14°22'07 | 27°28 | 17°19 | 4°29 | 2° 6 | 9°52 | 19°29 | 13°10 | 14°36 | 8°20 | 11°19 | 10°15 | 5°35 | 7° 2 | F 4 | | | | | | | | |
| S 5 | 14 54 22 | 15°20'32 | 11♋ 0 | 18°25 | 5°39 | 2°51 | 9°46 | 19°34 | 13° 8 | 14°37 | 8°22 | 11°D18 | 10°12 | 5°42 | 7° 5 | S 5 | | | | | | | | |
| S 6 | 14 58 19 | 16°18'56 | 24°50 | 19°35 | 6°49 | 3°37 | 9°40 | 19°39 | 13° 5 | 14°38 | 8°23 | 11°18 | 10° 9 | 5°49 | 7° 9 | S 6 | | | | | | | | |
| M 7 | 15 2 15 | 17°17'19 | 8♌57 | 20°46 | 7°59 | 4°23 | 9°33 | 19°44 | 13° 3 | 14°40 | 8°24 | 11°19 | 10° 6 | 5°55 | 7°12 | M 7 | | | | | | | | |
| T 8 | 15 6 12 | 18°15'40 | 23°20 | 22° 1 | 9° 9 | 5° 8 | 9°27 | 19°48 | 13° 0 | 14°41 | 8°25 | 11°20 | 10° 2 | 6° 2 | 7°16 | T 8 | | | | | | | | |
| W 9 | 15 10 8 | 19°13'59 | 7♍58 | 23°17 | 10°20 | 5°54 | 9°20 | 19°54 | 12°58 | 14°42 | 8°26 | 11°R21 | 9°59 | 6° 9 | 7°20 | W 9 | | | | | | | | |
| T 10 | 15 14 5 | 20°12'17 | 22°45 | 24°36 | 11°30 | 6°39 | 9°13 | 19°59 | 12°55 | 14°44 | 8°28 | 11°21 | 9°56 | 6°15 | 7°23 | T 10 | | | | | | | | |
| F 11 | 15 18 1 | 21°10'34 | 7♌36 | 25°57 | 12°40 | 7°24 | 9° 6 | 20° 4 | 12°53 | 14°45 | 8°29 | 11°19 | 9°53 | 6°22 | 7°27 | F 11 | | | | | | | | |
| S 12 | 15 21 58 | 22° 8'49 | 22°23 | 27°20 | 13°51 | 8°10 | 8°59 | 20° 9 | 12°50 | 14°47 | 8°30 | 11°14 | 9°50 | 6°29 | 7°30 | S 12 | | | | | | | | |
| S 13 | 15 25 55 | 23° 7'02 | 6♌58 | 28°45 | 15° 1 | 8°55 | 8°52 | 20°14 | 12°48 | 14°48 | 8°31 | 11° 9 | 9°47 | 6°35 | 7°34 | S 13 | | | | | | | | |
| M14 | 15 29 51 | 24° 5'13 | 21°14 | 0♌13 | 16°12 | 9°40 | 8°45 | 20°20 | 12°45 | 14°50 | 8°32 | 11° 2 | 9°43 | 6°42 | 7°37 | M14 | | | | | | | | |
| T 15 | 15 33 48 | 25° 3'23 | 5♌ 6 | 1°42 | 17°23 | 10°26 | 8°38 | 20°25 | 12°43 | 14°51 | 8°33 | 10°55 | 9°40 | 6°49 | 7°41 | T 15 | | | | | | | | |
| W16 | 15 37 44 | 26° 1'31 | 18°33 | 3°13 | 18°33 | 11°11 | 8°31 | 20°31 | 12°40 | 14°53 | 8°34 | 10°49 | 9°37 | 6°55 | 7°44 | W16 | | | | | | | | |
| T 17 | 15 41 41 | 26°59'37 | 1♌34 | 4°47 | 19°44 | 11°56 | 8°23 | 20°36 | 12°38 | 14°55 | 8°36 | 10°44 | 9°34 | 7° 2 | 7°48 | T 17 | | | | | | | | |
| F 18 | 15 45 37 | 27°57'41 | 14°11 | 6°22 | 20°55 | 12°41 | 8°16 | 20°42 | 12°35 | 14°56 | 8°37 | 10°41 | 9°31 | 7° 8 | 7°51 | F 18 | | | | | | | | |
| S 19 | 15 49 34 | 28°55'43 | 26°28 | 8° 0 | 22° 5 | 13°26 | 8° 9 | 20°48 | 12°33 | 14°58 | 8°38 | 10°D40 | 9°27 | 7°15 | 7°55 | S 19 | | | | | | | | |
| S 20 | 15 53 30 | 29°53'43 | 8♌31 | 9°39 | 23°16 | 14°11 | 8° 1 | 20°54 | 12°30 | 14°59 | 8°39 | 10°40 | 9°24 | 7°22 | 7°58 | S 20 | | | | | | | | |
| M21 | 15 57 27 | 0♌51'41 | 20°23 | 11°21 | 24°27 | 14°56 | 7°54 | 21° 0 | 12°28 | 15° 1 | 8°40 | 10°42 | 9°21 | 7°28 | 8° 2 | M21 | | | | | | | | |
| T 22 | 16 1 24 | 1°49'38 | 2♌11 | 13° 4 | 25°38 | 15°40 | 7°46 | 21° 6 | 12°26 | 15° 3 | 8°41 | 10°43 | 9°18 | 7°35 | 8° 5 | T 22 | | | | | | | | |
| W23 | 16 5 20 | 2°47'33 | 13°59 | 14°50 | 26°49 | 16°25 | 7°39 | 21°12 | 12°23 | 15° 5 | 8°42 | 10°R43 | 9°15 | 7°42 | 8° 8 | W23 | | | | | | | | |
| T 24 | 16 9 17 | 3°45'26 | 25°51 | 16°38 | 28° 0 | 17°10 | 7°31 | 21°18 | 12°21 | 15° 6 | 8°43 | 10°42 | 9°12 | 7°48 | 8°12 | T 24 | | | | | | | | |
| F 25 | 16 13 13 | 4°43'17 | 7♌52 | 18°27 | 29°11 | 17°55 | 7°23 | 21°24 | 12°19 | 15° 8 | 8°44 | 10°38 | 9° 8 | 7°55 | 8°15 | F 25 | | | | | | | | |
| S 26 | 16 17 10 | 5°41'07 | 20° 4 | 20°19 | 0♌22 | 18°39 | 7°16 | 21°30 | 12°16 | 15°10 | 8°45 | 10°32 | 9° 5 | 8° 2 | 8°18 | S 26 | | | | | | | | |
| S 27 | 16 21 6 | 6°38'56 | 2♌29 | 22°12 | 1°33 | 19°24 | 7° 8 | 21°36 | 12°14 | 15°12 | 8°46 | 10°25 | 9° 2 | 8° 8 | 8°22 | S 27 | | | | | | | | |
| M28 | 16 25 3 | 7°36'43 | 15° 8 | 24° 8 | 2°44 | 20° 8 | 7° 0 | 21°42 | 12°12 | 15°14 | 8°46 | 10°15 | 8°59 | 8°15 | 8°25 | M28 | | | | | | | | |
| T 29 | 16 28 59 | 8°34'29 | 28° 1 | 26° 5 | 3°55 | 20°53 | 6°53 | 21°49 | 12°10 | 15°15 | 8°47 | 10° 5 | 8°56 | 8°22 | 8°28 | T 29 | | | | | | | | |
| W30 | 16 32 56 | 9°32'14 | 11♌ 7 | 28° 5 | 5° 7 | 21°37 | 6°45 | 21°55 | 12° 7 | 15°17 | 8°48 | 9°55 | 8°53 | 8°28 | 8°31 | W30 | | | | | | | | |
| T 31 | 16 36 53 | 10♌29'57 | 24♌25 | 0♌ 6 | 6♌18 | 22♌22 | 6♋38 | 22° 2 | 12♌ 5 | 15°19 | 8♍49 | 9♍47 | 8♌49 | 8♌35 | 8♌35 | T 31 | | | | | | | | |

Delta T = 17m57s

JUNE 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|------|-------|------|-------|------|------|---|---|---|---|---|---|---|-----|
| F 1 | 16 40 49 | 11♌27'39 | 7♋56 | 2♌ 9 | 7♌29 | 23♌ 6 | 6°R30 | 22♌ 8 | 12°R 3 | 15♌21 | 8♍50 | 9°R40 | 8♍46 | 8♌42 | 8♌38 | F 1 | | | | | | | | |
| S 2 | 16 44 46 | 12°25'21 | 21°37 | 4°14 | 8°40 | 23°50 | 6♋22 | 22°15 | 12♌ 1 | 15°23 | 8°51 | 9♍36 | 8°43 | 8°48 | 8°41 | S 2 | | | | | | | | |
| S 3 | 16 48 42 | 13°23'01 | 5♌28 | 6°20 | 9°52 | 24°34 | 6°15 | 22°21 | 11°59 | 15°25 | 8°51 | 9°34 | 8°40 | 8°55 | 8°44 | S 3 | | | | | | | | |
| M 4 | 16 52 39 | 14°20'40 | 19°29 | 8°28 | 11° 3 | 25°19 | 6° 7 | 22°28 | 11°57 | 15°27 | 8°52 | 9°D34 | 8°37 | 9° 1 | 8°47 | M 4 | | | | | | | | |
| T 5 | 16 56 35 | 15°18'18 | 3♍39 | 10°37 | 12°15 | 26° 3 | 6° 0 | 22°35 | 11°55 | 15°29 | 8°53 | 9°R35 | 8°33 | 9° 8 | 8°50 | T 5 | | | | | | | | |
| W 6 | 17 0 32 | 16°15'56 | 17°57 | 12°48 | 13°26 | 26°47 | 5°52 | 22°42 | 11°53 | 15°31 | 8°54 | 9°34 | 8°30 | 9°15 | 8°53 | W 6 | | | | | | | | |
| T 7 | 17 4 28 | 17°13'32 | 2♌21 | 14°59 | 14°38 | 27°31 | 5°45 | 22°48 | 11°51 | 15°33 | 8°54 | 9°33 | 8°27 | 9°21 | 8°56 | T 7 | | | | | | | | |
| F 8 | 17 8 25 | 18°11'08 | 16°48 | 17°10 | 15°49 | 28°15 | 5°38 | 22°55 | 11°49 | 15°35 | 8°55 | 9°28 | 8°24 | 9°28 | 8°59 | F 8 | | | | | | | | |
| S 9 | 17 12 22 | 19° 8'43 | 1♌12 | 19°22 | 17° 1 | 28°59 | 5°30 | 23° 2 | 11°47 | 15°37 | 8°56 | 9°21 | 8°21 | 9°35 | 9° 2 | S 9 | | | | | | | | |
| S 10 | 17 16 18 | 20° 6'17 | 15°28 | 21°35 | 18°12 | 29°42 | 5°23 | 23° 9 | 11°45 | 15°39 | 8°56 | 9°12 | 8°18 | 9°41 | 9° 5 | S 10 | | | | | | | | |
| M11 | 17 20 15 | 21° 3'50 | 29°30 | 23°47 | 19°24 | 0♌26 | 5°16 | 23°16 | 11°44 | 15°41 | 8°57 | 9° 1 | 8°14 | 9°48 | 9° 8 | M11 | | | | | | | | |
| T 12 | 17 24 11 | 22° 1'22 | 13♌13 | 25°58 | 20°36 | 1°10 | 5° 9 | 23°23 | 11°42 | 15°43 | 8°58 | 8°50 | 8°11 | 9°55 | 9°11 | T 12 | | | | | | | | |
| W13 | 17 28 8 | 22°58'53 | 26°35 | 28° 9 | 21°47 | 1°54 | 5° 2 | 23°30 | 11°40 | 15°45 | 8°58 | 8°39 | 8° 8 | 10° 1 | 9°14 | W13 | | | | | | | | |
| T 14 | 17 32 4 | 23°56'23 | 9♌33 | 0♌19 | 22°59 | 2°37 | 4°55 | 23°37 | 11°39 | 15°47 | 8°59 | 8°31 | 8° 5 | 10° 8 | 9°17 | T 14 | | | | | | | | |
| F 15 | 17 36 1 | 24°53'51 | 22°10 | 2°28 | 24°11 | 3°21 | 4°48 | 23°44 | 11°37 | 15°49 | 8°59 | 8°24 | 8° 2 | 10°15 | 9°20 | F 15 | | | | | | | | |
| S 16 | 17 39 58 | 25°51'18 | 4♌28 | 4°35 | 25°22 | 4° 4 | 4°41 | 23°52 | 11°35 | 15°52 | 9° 0 | 8°20 | 7°59 | 10°21 | 9°22 | S 16 | | | | | | | | |
| S 17 | 17 43 54 | 26°48'45 | 16°31 | 6°40 | 26°34 | 4°48 | 4°35 | 23°59 | 11°34 | 15°54 | 9° 0 | 8°19 | 7°55 | 10°28 | 9°25 | S 17 | | | | | | | | |
| M18 | 17 47 51 | 27°46'10 | 28°24 | 8°44 | 27°46 | 5°31 | 4°28 | 24° 6 | 11°32 | 15°56 | 9° 1 | 8°D18 | 7°52 | 10°34 | 9°28 | M18 | | | | | | | | |
| T 19 | 17 51 47 | 28°43'34 | 10♌13 | 10°46 | 28°58 | 6°14 | 4°22 | 24°13 | 11°31 | 15°58 | 9° 1 | 8°R18 | 7°49 | 10°41 | 9°30 | T 19 | | | | | | | | |
| W20 | 17 55 44 | 29°40'57 | 22° 2 | 12°46 | 0♌10 | 6°58 | 4°15 | 24°21 | 11°29 | 16° 0 | 9° 2 | 8°18 | 7°46 | 10°48 | 9°33 | W20 | | | | | | | | |
| T 21 | 17 59 40 | 0♌38'18 | 3♌57 | 14°44 | 1°22 | 7°41 | 4° 9 | 24°28 | 11°28 | 16° 2 | 9° 2 | 8°16 | 7°43 | 10°54 | 9°35 | T 21 | | | | | | | | |
| F 22 | 18 3 37 | 1°35'40 | 16° 4 | 16°39 | 2°34 | 8°24 | 4° 3 | 24°35 | 11°27 | 16° 4 | 9° 2 | 8°11 | 7°39 | 11° 1 | 9°38 | F 22 | | | | | | | | |
| S 23 | 18 7 33 | 2°33'00 | 28°24 | 18°32 | 3°45 | 9° 7 | 3°57 | 24°43 | 11°25 | 16° 7 | 9° 3 | 8° 4 | 7°36 | 11° 8 | 9°40 | S 23 | | | | | | | | |
| S 24 | 18 11 30 | 3°30'19 | 11♌ 2 | 20°23 | 4°57 | 9°50 | 3°51 | 24°50 | 11°24 | 16° 9 | 9° 3 | 7°54 | 7°33 | 11°14 | 9°43 | S 24 | | | | | | | | |
| M25 | 18 15 27 | 4°27'38 | 23°58 | 22°12 | 6° 9 | 10°33 | 3°46 | 24°58 | 11°23 | 16°11 | 9° 3 | 7°43 | 7°30 | 11°21 | 9°45 | M25 | | | | | | | | |
| T 26 | 18 19 23 | 5°24'56 | 7♌11 | 23°58 | 7°21 | 11°16 | 3°40 | 25° 5 | 11°22 | 16°13 | 9° 4 | 7°30 | 7°27 | 11°28 | 9°48 | T 26 | | | | | | | | |
| W27 | 18 23 20 | 6°22'14 | 20°41 | 25°42 | 8°34 | 11°59 | 3°34 | 25°13 | 11°21 | 16°15 | 9° 4 | 7°18 | 7°24 | 11°34 | 9°50 | W27 | | | | | | | | |
| T 28 | 18 27 16 | 7°19'31 | 4♌23 | 27°23 | 9°46 | 12°42 | 3°29 | 25°20 | 11°19 | 16°18 | 9° 4 | 7° 8 | 7°20 | 11°41 | 9°52 | T 28 | | | | | | | | |
| F 29 | 18 31 13 | 8°16'47 | 18°16 | 29° 2 | 10°58 | 13°24 | 3°24 | 25°28 | 11°18 | 16°20 | 9° 4 | 6°59 | 7°17 | 11°48 | 9°55 | F 29 | | | | | | | | |
| S 30 | 18 35 9 | 9♌14'03 | 2♌16 | 0♌38 | 12♌10 | 14♌ 7 | 3♋19 | 25°35 | 11♌17 | 16°22 | 9♍ 5 | 6♍54 | 7♍14 | 11♌54 | 9♌57 | S 30 | | | | | | | | |

Delta T = 17m57s

ASTRODIENST EPHEMERIS for the year 2564
geocentric

JULY 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 18 39 6 | 10♄11'19 | 16♃20 | 2♃12 | 13♂22 | 14♂50 | 3°R14 | 25♄43 | 11°R17 | 16♄24 | 9°V 5 | 6°R51 | 7°V11 | 12♄1 | 9♂59 | S 1 | | | | | | | | |
| M 2 | 18 43 2 | 11° 8'35 | 0°V26 | 3°44 | 14°34 | 15°32 | 3♂ 9 | 25°51 | 11♂16 | 16°27 | 9° 5 | 6°V50 | 7° 8 | 12° 8 | 10° 1 | M 2 | | | | | | | | |
| T 3 | 18 46 59 | 12° 5'51 | 14°34 | 5°13 | 15°47 | 16°15 | 3° 5 | 25°58 | 11°15 | 16°29 | 9° 5 | 6°50 | 7° 5 | 12°14 | 10° 3 | T 3 | | | | | | | | |
| W 4 | 18 50 56 | 13° 3'07 | 28°41 | 6°40 | 16°59 | 16°57 | 3° 0 | 26° 6 | 11°14 | 16°31 | 9° 5 | 6°50 | 7° 1 | 12°21 | 10° 5 | W 4 | | | | | | | | |
| T 5 | 18 54 52 | 14° 0'23 | 12♃48 | 8° 4 | 18°11 | 17°40 | 2°56 | 26°14 | 11°13 | 16°33 | 9° 5 | 6°48 | 6°58 | 12°27 | 10° 7 | T 5 | | | | | | | | |
| F 6 | 18 58 49 | 14°57'38 | 26°52 | 9°25 | 19°23 | 18°22 | 2°52 | 26°21 | 11°13 | 16°35 | 9° 5 | 6°43 | 6°55 | 12°34 | 10° 9 | F 6 | | | | | | | | |
| S 7 | 19 2 45 | 15°54'54 | 10♂51 | 10°44 | 20°36 | 19° 4 | 2°48 | 26°29 | 11°12 | 16°38 | 9° 5 | 6°36 | 6°52 | 12°41 | 10°11 | S 7 | | | | | | | | |
| S 8 | 19 6 42 | 16°52'10 | 24°41 | 12° 1 | 21°48 | 19°47 | 2°44 | 26°37 | 11°11 | 16°40 | 9° 5 | 6°26 | 6°49 | 12°47 | 10°13 | S 8 | | | | | | | | |
| M 9 | 19 10 38 | 17°49'26 | 8♄20 | 13°14 | 23° 1 | 20°29 | 2°40 | 26°44 | 11°11 | 16°42 | 9°R 5 | 6°14 | 6°45 | 12°54 | 10°15 | M 9 | | | | | | | | |
| T 10 | 19 14 35 | 18°46'42 | 21°45 | 14°25 | 24°13 | 21°11 | 2°37 | 26°52 | 11°10 | 16°44 | 9° 5 | 6° 2 | 6°42 | 13° 1 | 10°17 | T 10 | | | | | | | | |
| W11 | 19 18 32 | 19°43'57 | 4♃51 | 15°33 | 25°26 | 21°53 | 2°34 | 27° 0 | 11°10 | 16°47 | 9° 5 | 5°51 | 6°39 | 13° 7 | 10°18 | W11 | | | | | | | | |
| T 12 | 19 22 28 | 20°41'12 | 17°40 | 16°38 | 26°38 | 22°35 | 2°31 | 27° 8 | 11°10 | 16°49 | 9° 5 | 5°41 | 6°36 | 13°14 | 10°20 | T 12 | | | | | | | | |
| F 13 | 19 26 25 | 21°38'27 | 0♃10 | 17°41 | 27°51 | 23°17 | 2°28 | 27°15 | 11° 9 | 16°51 | 9° 5 | 5°34 | 6°33 | 13°21 | 10°22 | F 13 | | | | | | | | |
| S 14 | 19 30 21 | 22°35'42 | 12°24 | 18°40 | 29° 3 | 23°59 | 2°25 | 27°23 | 11° 9 | 16°53 | 9° 5 | 5°30 | 6°30 | 13°27 | 10°23 | S 14 | | | | | | | | |
| S 15 | 19 34 18 | 23°32'56 | 24°26 | 19°36 | 0♄16 | 24°41 | 2°22 | 27°31 | 11° 9 | 16°56 | 9° 5 | 5°27 | 6°26 | 13°34 | 10°25 | S 15 | | | | | | | | |
| M16 | 19 38 14 | 24°30'10 | 6♄18 | 20°28 | 1°28 | 25°22 | 2°20 | 27°39 | 11° 9 | 16°58 | 9° 5 | 5°D27 | 6°23 | 13°41 | 10°26 | M16 | | | | | | | | |
| T 17 | 19 42 11 | 25°27'25 | 18° 6 | 21°18 | 2°41 | 26° 4 | 2°18 | 27°47 | 11° 8 | 17° 0 | 9° 5 | 5°27 | 6°20 | 13°47 | 10°28 | T 17 | | | | | | | | |
| W18 | 19 46 7 | 26°24'38 | 29°56 | 22° 3 | 3°54 | 26°46 | 2°15 | 27°54 | 11° 8 | 17° 2 | 9° 4 | 5°R27 | 6°17 | 13°54 | 10°29 | W18 | | | | | | | | |
| T 19 | 19 50 4 | 27°21'52 | 11♂53 | 22°45 | 5° 6 | 27°27 | 2°14 | 28° 2 | 11°D 8 | 17° 4 | 9° 4 | 5°26 | 6°14 | 14° 1 | 10°31 | T 19 | | | | | | | | |
| F 20 | 19 54 1 | 28°19'06 | 24° 2 | 23°24 | 6°19 | 28° 9 | 2°12 | 28°10 | 11° 8 | 17° 7 | 9° 4 | 5°23 | 6°11 | 14° 7 | 10°32 | F 20 | | | | | | | | |
| S 21 | 19 57 57 | 29°16'20 | 6♂27 | 23°58 | 7°32 | 28°50 | 2°10 | 28°18 | 11° 9 | 17° 9 | 9° 4 | 5°18 | 6° 7 | 14°14 | 10°33 | S 21 | | | | | | | | |
| S 22 | 20 1 54 | 0♃13'34 | 19°12 | 24°28 | 8°45 | 29°32 | 2° 9 | 28°26 | 11° 9 | 17°11 | 9° 3 | 5°11 | 6° 4 | 14°20 | 10°34 | S 22 | | | | | | | | |
| M23 | 20 5 50 | 1°10'47 | 2♂19 | 24°54 | 9°57 | 0♄13 | 2° 8 | 28°33 | 11° 9 | 17°13 | 9° 3 | 5° 1 | 6° 1 | 14°27 | 10°35 | M23 | | | | | | | | |
| T 24 | 20 9 47 | 2° 8'01 | 15°48 | 25°16 | 11°10 | 0°54 | 2° 7 | 28°41 | 11° 9 | 17°15 | 9° 3 | 4°51 | 5°58 | 14°34 | 10°37 | T 24 | | | | | | | | |
| W25 | 20 13 43 | 3° 5'16 | 29°38 | 25°33 | 12°23 | 1°35 | 2° 6 | 28°49 | 11° 9 | 17°18 | 9° 2 | 4°41 | 5°55 | 14°40 | 10°38 | W25 | | | | | | | | |
| T 26 | 20 17 40 | 4° 2'30 | 13♃44 | 25°46 | 13°36 | 2°17 | 2° 5 | 28°57 | 11°10 | 17°20 | 9° 2 | 4°33 | 5°51 | 14°47 | 10°39 | T 26 | | | | | | | | |
| F 27 | 20 21 36 | 4°59'45 | 28° 3 | 25°53 | 14°49 | 2°58 | 2° 5 | 29° 4 | 11°10 | 17°22 | 9° 2 | 4°26 | 5°48 | 14°54 | 10°40 | F 27 | | | | | | | | |
| S 28 | 20 25 33 | 5°57'00 | 12♂27 | 25°R56 | 16° 2 | 3°39 | 2° 5 | 29°12 | 11°11 | 17°24 | 9° 1 | 4°22 | 5°45 | 15° 0 | 10°40 | S 28 | | | | | | | | |
| S 29 | 20 29 30 | 6°54'16 | 26°52 | 25°54 | 17°15 | 4°20 | 2°D 5 | 29°20 | 11°11 | 17°26 | 9° 1 | 4°20 | 5°42 | 15° 7 | 10°41 | S 29 | | | | | | | | |
| M30 | 20 33 26 | 7°51'33 | 11°V14 | 25°48 | 18°28 | 5° 1 | 2° 5 | 29°28 | 11°12 | 17°28 | 9° 0 | 4°D20 | 5°39 | 15°14 | 10°42 | M30 | | | | | | | | |
| T 31 | 20 37 23 | 8♃48'50 | 25°V31 | 25♂36 | 19♄41 | 5♄42 | 2♂ 5 | 29♄35 | 11♂12 | 17♄30 | 9°V 0 | 4°V21 | 5°V36 | 15♄20 | 10♂43 | T 31 | | | | | | | | |

Delta T = 17m58s

AUGUST 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| W 1 | 20 41 19 | 9♂46'09 | 9♂39 | 25°R19 | 20♄54 | 6♄22 | 2♂ 5 | 29♄43 | 11♂13 | 17♄32 | 8°R59 | 4°R21 | 5°V32 | 15♄27 | 10♂44 | W 1 | | | | | | | | |
| T 2 | 20 45 16 | 10°43'28 | 23°38 | 24♂58 | 22° 7 | 7° 3 | 2° 6 | 29°51 | 11°14 | 17°35 | 8°V59 | 4°V21 | 5°29 | 15°34 | 10°44 | T 2 | | | | | | | | |
| F 3 | 20 49 12 | 11°40'48 | 7♂27 | 24°32 | 23°21 | 7°44 | 2° 7 | 29°59 | 11°14 | 17°37 | 8°58 | 4°18 | 5°26 | 15°40 | 10°45 | F 3 | | | | | | | | |
| S 4 | 20 53 9 | 12°38'09 | 21° 5 | 24° 2 | 24°34 | 8°24 | 2° 8 | 0♃ 6 | 11°15 | 17°39 | 8°58 | 4°13 | 5°23 | 15°47 | 10°45 | S 4 | | | | | | | | |
| S 5 | 20 57 5 | 13°35'31 | 4♄32 | 23°28 | 25°47 | 9° 5 | 2° 9 | 0°14 | 11°16 | 17°41 | 8°57 | 4° 6 | 5°20 | 15°54 | 10°46 | S 5 | | | | | | | | |
| M 6 | 21 1 2 | 14°32'54 | 17°47 | 22°51 | 27° 0 | 9°46 | 2°10 | 0°22 | 11°17 | 17°43 | 8°57 | 3°58 | 5°17 | 16° 0 | 10°46 | M 6 | | | | | | | | |
| T 7 | 21 4 59 | 15°30'18 | 0♃48 | 22°10 | 28°14 | 10°26 | 2°12 | 0°29 | 11°18 | 17°45 | 8°56 | 3°50 | 5°13 | 16° 7 | 10°47 | T 7 | | | | | | | | |
| W 8 | 21 8 55 | 16°27'42 | 13°35 | 21°28 | 29°27 | 11° 6 | 2°14 | 0°37 | 11°19 | 17°47 | 8°55 | 3°42 | 5°10 | 16°13 | 10°47 | W 8 | | | | | | | | |
| T 9 | 21 12 52 | 17°25'07 | 26° 8 | 20°43 | 0♃40 | 11°47 | 2°16 | 0°44 | 11°20 | 17°49 | 8°55 | 3°35 | 5° 7 | 16°20 | 10°47 | T 9 | | | | | | | | |
| F 10 | 21 16 48 | 18°22'33 | 8♃27 | 19°58 | 1°54 | 12°27 | 2°18 | 0°52 | 11°21 | 17°51 | 8°54 | 3°30 | 5° 4 | 16°27 | 10°47 | F 10 | | | | | | | | |
| S 11 | 21 20 45 | 19°20'00 | 20°34 | 19°13 | 3° 7 | 13° 7 | 2°20 | 1° 0 | 11°22 | 17°53 | 8°53 | 3°27 | 5° 1 | 16°33 | 10°47 | S 11 | | | | | | | | |
| S 12 | 21 24 41 | 20°17'27 | 2♄31 | 18°28 | 4°21 | 13°47 | 2°22 | 1° 7 | 11°24 | 17°55 | 8°53 | 3°D26 | 4°57 | 16°40 | 10°48 | S 12 | | | | | | | | |
| M13 | 21 28 38 | 21°14'55 | 14°21 | 17°46 | 5°34 | 14°27 | 2°25 | 1°15 | 11°25 | 17°57 | 8°52 | 3°27 | 4°54 | 16°47 | 10°R48 | M13 | | | | | | | | |
| T 14 | 21 32 34 | 22°12'24 | 26° 8 | 17° 5 | 6°48 | 15° 7 | 2°28 | 1°22 | 11°26 | 17°59 | 8°51 | 3°28 | 4°51 | 16°53 | 10°48 | T 14 | | | | | | | | |
| W15 | 21 36 31 | 23° 9'53 | 7♂58 | 16°28 | 8° 1 | 15°47 | 2°31 | 1°29 | 11°28 | 18° 1 | 8°50 | 3°30 | 4°48 | 17° 0 | 10°47 | W15 | | | | | | | | |
| T 16 | 21 40 28 | 24° 7'23 | 19°54 | 15°54 | 9°15 | 16°27 | 2°34 | 1°37 | 11°29 | 18° 2 | 8°50 | 3°R31 | 4°45 | 17° 7 | 10°47 | T 16 | | | | | | | | |
| F 17 | 21 44 24 | 25° 4'55 | 2♂ 2 | 15°26 | 10°28 | 17° 7 | 2°37 | 1°44 | 11°31 | 18° 4 | 8°49 | 3°31 | 4°42 | 17°13 | 10°47 | F 17 | | | | | | | | |
| S 18 | 21 48 21 | 26° 2'26 | 14°27 | 15° 2 | 11°42 | 17°47 | 2°41 | 1°52 | 11°32 | 18° 6 | 8°48 | 3°29 | 4°38 | 17°20 | 10°47 | S 18 | | | | | | | | |
| S 19 | 21 52 17 | 26°59'59 | 27°13 | 14°44 | 12°55 | 18°27 | 2°44 | 1°59 | 11°34 | 18° 8 | 8°47 | 3°26 | 4°35 | 17°27 | 10°47 | S 19 | | | | | | | | |
| M20 | 21 56 14 | 27°57'33 | 10♄23 | 14°33 | 14° 9 | 19° 6 | 2°48 | 2° 6 | 11°35 | 18°10 | 8°46 | 3°21 | 4°32 | 17°33 | 10°46 | M20 | | | | | | | | |
| T 21 | 22 0 10 | 28°55'07 | 23°59 | 14°D28 | 15°23 | 19°46 | 2°52 | 2°14 | 11°37 | 18°12 | 8°45 | 3°16 | 4°29 | 17°40 | 10°46 | T 21 | | | | | | | | |
| W22 | 22 4 7 | 29°52'42 | 7♃59 | 14°30 | 16°37 | 20°25 | 2°56 | 2°21 | 11°39 | 18°13 | 8°45 | 3°11 | 4°26 | 17°47 | 10°45 | W22 | | | | | | | | |
| T 23 | 22 8 3 | 0♃50'19 | 22°22 | 14°40 | 17°50 | 21° 5 | 3° 0 | 2°28 | 11°41 | 18°15 | 8°44 | 3° 7 | 4°23 | 17°53 | 10°45 | T 23 | | | | | | | | |
| F 24 | 22 12 0 | 1°47'56 | 7♂ 0 | 14°56 | 19° 4 | 21°44 | 3° 5 | 2°35 | 11°42 | 18°17 | 8°43 | 3° 3 | 4°19 | 18° 0 | 10°44 | F 24 | | | | | | | | |
| S 25 | 22 15 57 | 2°45'35 | 21°48 | 15°20 | 20°18 | 22°24 | 3°10 | 2°42 | 11°44 | 18°19 | 8°42 | 3° 2 | 4°16 | 18° 6 | 10°44 | S 25 | | | | | | | | |
| S 26 | 22 19 53 | 3°43'15 | 6°V38 | 15°51 | 21°32 | 23° 3 | 3°14 | 2°49 | 11°46 | 18°20 | 8°41 | 3°D 1 | 4°13 | 18°13 | 10°43 | S 26 | | | | | | | | |
| M27 | 22 23 50 | 4°40'56 | 21°22 | 16°29 | 22°46 | 23°42 | 3°19 | 2°56 | 11°48 | 18°22 | 8°40 | 3° 2 | 4°10 | 18°20 | 10°42 | M27 | | | | | | | | |
| T 28 | 22 27 46 | 5°38'39 | 5♂56 | 17°14 | 24° 0 | 24°21 | 3°24 | 3° 3 | 11°50 | 18°24 | 8°39 | 3° 3 | 4° 7 | 18°26 | 10°42 | T 28 | | | | | | | | |
| W29 | 22 31 43 | 6°36'24 | 20°15 | 18° 7 | 25°14 | 25° 0 | 3°30 | 3°10 | 11°52 | 18°25 | 8°38 | 3° 5 | 4° 3 | 18°33 | 10°41 | W29 | | | | | | | | |
| T 30 | 22 35 39 | 7°34'10 | 4♂18 | 19° 6 | 26°28 | 25°39 | 3°35 | 3°17 | 11°54 | 18°27 | 8°37 | 3°R 5 | 4° 0 | 18°40 | 10°40 | T 30 | | | | | | | | |
| F 31 | 22 39 36 | 8♃31'58 | 18♂ 2 | 20♂12 | 27♂42 | 26♄18 | 3♂41 | 3♂24 | 11♂56 | 18♄28 | 8°V36 | 3°V 5 | 3°V57 | 18♄46 | 10♂39 | F 31 | | | | | | | | |

Delta T = 17m58s

ASTRODIENST EPHEMERIS for the year 2564
geocentric

SEPTEMBER 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|--------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| S 1 | 22 43 32 | 9♍29'48 | 1♌29 | 21♌24 | 28♌56 | 26♌57 | 3♃46 | 3♄31 | 11♌59 | 18♌30 | 8♌R35 | 3♌R 4 | 3♌V54 | 18♌53 | 10♌R38 | S 1 | | | | | | | | |
| S 2 | 22 47 29 | 10°27'39 | 14°40 | 22°42 | 0♍10 | 27°36 | 3°52 | 3°38 | 12° 1 | 18°32 | 8♌V34 | 3♌V 1 | 3°51 | 19° 0 | 10♌R37 | S 2 | | | | | | | | |
| M 3 | 22 51 26 | 11°25'33 | 27°35 | 24° 5 | 1°24 | 28°15 | 3°58 | 3°45 | 12° 3 | 18°33 | 8°33 | 2°58 | 3°48 | 19° 6 | 10°36 | M 3 | | | | | | | | |
| T 4 | 22 55 22 | 12°23'27 | 10♌216 | 25°34 | 2°38 | 28°54 | 4° 4 | 3°51 | 12° 5 | 18°35 | 8°32 | 2°55 | 3°44 | 19°13 | 10°35 | T 4 | | | | | | | | |
| W 5 | 22 59 19 | 13°21'24 | 22°44 | 27° 7 | 3°52 | 29°32 | 4°11 | 3°58 | 12° 8 | 18°36 | 8°31 | 2°52 | 3°41 | 19°20 | 10°34 | W 5 | | | | | | | | |
| T 6 | 23 3 15 | 14°19'21 | 5♍0 | 28°45 | 5° 6 | 0♌211 | 4°17 | 4° 5 | 12°10 | 18°37 | 8°30 | 2°50 | 3°38 | 19°26 | 10°32 | T 6 | | | | | | | | |
| F 7 | 23 7 12 | 15°17'21 | 17° 6 | 0♍27 | 6°20 | 0°49 | 4°24 | 4°11 | 12°12 | 18°39 | 8°29 | 2°48 | 3°35 | 19°33 | 10°31 | F 7 | | | | | | | | |
| S 8 | 23 11 8 | 16°15'22 | 29° 4 | 2°11 | 7°35 | 1°28 | 4°30 | 4°18 | 12°15 | 18°40 | 8°28 | 2°D47 | 3°32 | 19°40 | 10°30 | S 8 | | | | | | | | |
| S 9 | 23 15 5 | 17°13'24 | 10♌56 | 3°59 | 8°49 | 2° 6 | 4°37 | 4°24 | 12°17 | 18°42 | 8°27 | 2°48 | 3°29 | 19°46 | 10°29 | S 9 | | | | | | | | |
| M10 | 23 19 1 | 18°11'28 | 22°44 | 5°49 | 10° 3 | 2°44 | 4°44 | 4°30 | 12°20 | 18°43 | 8°25 | 2°48 | 3°25 | 19°53 | 10°27 | M10 | | | | | | | | |
| T 11 | 23 22 58 | 19° 9'33 | 4♍31 | 7°41 | 11°18 | 3°23 | 4°52 | 4°37 | 12°23 | 18°44 | 8°24 | 2°50 | 3°22 | 20° 0 | 10°26 | T 11 | | | | | | | | |
| W12 | 23 26 54 | 20° 7'40 | 16°20 | 9°34 | 12°32 | 4° 1 | 4°59 | 4°43 | 12°25 | 18°46 | 8°23 | 2°51 | 3°19 | 20° 6 | 10°24 | W12 | | | | | | | | |
| T 13 | 23 30 51 | 21° 5'49 | 28°16 | 11°28 | 13°46 | 4°39 | 5° 6 | 4°49 | 12°28 | 18°47 | 8°22 | 2°52 | 3°16 | 20°13 | 10°23 | T 13 | | | | | | | | |
| F 14 | 23 34 48 | 22° 3'59 | 10♌24 | 13°24 | 15° 1 | 5°17 | 5°14 | 4°55 | 12°31 | 18°48 | 8°21 | 2°53 | 3°13 | 20°19 | 10°21 | F 14 | | | | | | | | |
| S 15 | 23 38 44 | 23° 2'10 | 22°46 | 15°19 | 16°15 | 5°55 | 5°22 | 5° 1 | 12°33 | 18°49 | 8°20 | 2°R53 | 3° 9 | 20°26 | 10°19 | S 15 | | | | | | | | |
| S 16 | 23 42 41 | 24° 0'23 | 5♌28 | 17°15 | 17°29 | 6°33 | 5°29 | 5° 8 | 12°36 | 18°50 | 8°19 | 2°53 | 3° 6 | 20°33 | 10°18 | S 16 | | | | | | | | |
| M17 | 23 46 37 | 24°58'37 | 18°34 | 19°11 | 18°44 | 7°11 | 5°37 | 5°13 | 12°39 | 18°51 | 8°17 | 2°52 | 3° 3 | 20°39 | 10°16 | M17 | | | | | | | | |
| T 18 | 23 50 34 | 25°56'53 | 2♌6 | 21° 6 | 19°58 | 7°49 | 5°45 | 5°19 | 12°42 | 18°53 | 8°16 | 2°51 | 3° 0 | 20°46 | 10°14 | T 18 | | | | | | | | |
| W19 | 23 54 30 | 26°55'10 | 16° 5 | 23° 2 | 21°13 | 8°26 | 5°54 | 5°25 | 12°45 | 18°54 | 8°15 | 2°51 | 2°57 | 20°53 | 10°12 | W19 | | | | | | | | |
| T 20 | 23 58 27 | 27°53'28 | 0♌30 | 24°56 | 22°27 | 9° 4 | 6° 2 | 5°31 | 12°48 | 18°55 | 8°14 | 2°50 | 2°54 | 20°59 | 10°10 | T 20 | | | | | | | | |
| F 21 | 0 2 24 | 28°51'49 | 15°17 | 26°50 | 23°42 | 9°41 | 6°10 | 5°37 | 12°50 | 18°56 | 8°13 | 2°50 | 2°50 | 21° 6 | 10° 9 | F 21 | | | | | | | | |
| S 22 | 0 6 20 | 29°50'11 | 0♌18 | 28°43 | 24°56 | 10°19 | 6°19 | 5°42 | 12°53 | 18°57 | 8°12 | 2°D50 | 2°47 | 21°13 | 10° 7 | S 22 | | | | | | | | |
| S 23 | 0 10 17 | 0♌48'34 | 15°26 | 0♌35 | 26°11 | 10°56 | 6°28 | 5°48 | 12°56 | 18°58 | 8°10 | 2°50 | 2°44 | 21°19 | 10° 5 | S 23 | | | | | | | | |
| M24 | 0 14 13 | 1°47'00 | 0♌32 | 2°27 | 27°25 | 11°34 | 6°36 | 5°53 | 12°59 | 18°59 | 8° 9 | 2°50 | 2°41 | 21°26 | 10° 3 | M24 | | | | | | | | |
| T 25 | 0 18 10 | 2°45'28 | 15°26 | 4°17 | 28°40 | 12°11 | 6°45 | 5°59 | 13° 3 | 18°59 | 8° 8 | 2°R50 | 2°38 | 21°33 | 10° 0 | T 25 | | | | | | | | |
| W26 | 0 22 6 | 3°43'58 | 0♍3 | 6° 6 | 29°55 | 12°48 | 6°54 | 6° 4 | 13° 6 | 19° 0 | 8° 7 | 2°50 | 2°34 | 21°39 | 9°58 | W26 | | | | | | | | |
| T 27 | 0 26 3 | 4°42'30 | 14°17 | 7°55 | 1♌9 | 13°25 | 7° 3 | 6° 9 | 13° 9 | 19° 1 | 8° 6 | 2°50 | 2°31 | 21°46 | 9°56 | T 27 | | | | | | | | |
| F 28 | 0 29 59 | 5°41'04 | 28° 7 | 9°42 | 2°24 | 14° 2 | 7°13 | 6°15 | 13°12 | 19° 2 | 8° 4 | 2°49 | 2°28 | 21°53 | 9°54 | F 28 | | | | | | | | |
| S 29 | 0 33 56 | 6°39'41 | 11♌33 | 11°29 | 3°39 | 14°39 | 7°22 | 6°20 | 13°15 | 19° 3 | 8° 3 | 2°D49 | 2°25 | 21°59 | 9°52 | S 29 | | | | | | | | |
| S 30 | 0 37 52 | 7♌38'19 | 24♌36 | 13♌14 | 4♌53 | 15♌16 | 7♃32 | 6♄25 | 13♌18 | 19♌4 | 8♌V 2 | 2♌V50 | 2♌V22 | 22♌6 | 9♌50 | S 30 | | | | | | | | |

Delta T = 17m58s

OCTOBER 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|--------|-------|-------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| M 1 | 0 41 49 | 8♌37'00 | 7♌20 | 14♌58 | 6♌8 | 15♌53 | 7♃41 | 6♄30 | 13♌22 | 19♌4 | 8♌R 1 | 2♌V50 | 2♌V19 | 22♌13 | 9♌R47 | M 1 | | | | | | | | |
| T 2 | 0 45 46 | 9°35'43 | 19°47 | 16°42 | 7°23 | 16°30 | 7°51 | 6°35 | 13°25 | 19° 5 | 8♌V 0 | 2°51 | 2°15 | 22°19 | 9♌R45 | T 2 | | | | | | | | |
| W 3 | 0 49 42 | 10°34'28 | 2♍1 | 18°24 | 8°37 | 17° 6 | 8° 1 | 6°40 | 13°28 | 19° 6 | 7°58 | 2°51 | 2°12 | 22°26 | 9°43 | W 3 | | | | | | | | |
| T 4 | 0 53 39 | 11°33'15 | 14° 4 | 20° 6 | 9°52 | 17°43 | 8°10 | 6°44 | 13°31 | 19° 6 | 7°57 | 2°52 | 2° 9 | 22°33 | 9°40 | T 4 | | | | | | | | |
| F 5 | 0 57 35 | 12°32'05 | 26° 0 | 21°46 | 11° 7 | 18°19 | 8°20 | 6°49 | 13°35 | 19° 7 | 7°56 | 2°53 | 2° 6 | 22°39 | 9°38 | F 5 | | | | | | | | |
| S 6 | 1 1 32 | 13°30'56 | 7♌51 | 23°26 | 12°22 | 18°56 | 8°31 | 6°54 | 13°38 | 19° 7 | 7°55 | 2°R53 | 2° 3 | 22°46 | 9°35 | S 6 | | | | | | | | |
| S 7 | 1 5 28 | 14°29'49 | 19°39 | 25° 4 | 13°37 | 19°32 | 8°41 | 6°58 | 13°42 | 19° 8 | 7°54 | 2°52 | 2° 0 | 22°52 | 9°33 | S 7 | | | | | | | | |
| M 8 | 1 9 25 | 15°28'44 | 1♍27 | 26°42 | 14°51 | 20° 9 | 8°51 | 7° 3 | 13°45 | 19° 8 | 7°53 | 2°51 | 1°56 | 22°59 | 9°31 | M 8 | | | | | | | | |
| T 9 | 1 13 21 | 16°27'42 | 13°16 | 28°19 | 16° 6 | 20°45 | 9° 1 | 7° 7 | 13°48 | 19° 9 | 7°51 | 2°49 | 1°53 | 23° 6 | 9°28 | T 9 | | | | | | | | |
| W10 | 1 17 18 | 17°26'41 | 25° 9 | 29°55 | 17°21 | 21°21 | 9°12 | 7°11 | 13°52 | 19° 9 | 7°50 | 2°47 | 1°50 | 23°12 | 9°25 | W10 | | | | | | | | |
| T 11 | 1 21 15 | 18°25'42 | 7♃9 | 1♍31 | 18°36 | 21°57 | 9°22 | 7°15 | 13°55 | 19°10 | 7°49 | 2°45 | 1°47 | 23°19 | 9°23 | T 11 | | | | | | | | |
| F 12 | 1 25 11 | 19°24'44 | 19°18 | 3° 5 | 19°51 | 22°33 | 9°33 | 7°19 | 13°59 | 19°10 | 7°48 | 2°42 | 1°44 | 23°26 | 9°20 | F 12 | | | | | | | | |
| S 13 | 1 29 8 | 20°23'49 | 1♌41 | 4°39 | 21° 6 | 23° 9 | 9°44 | 7°23 | 14° 2 | 19°10 | 7°47 | 2°41 | 1°40 | 23°32 | 9°18 | S 13 | | | | | | | | |
| S 14 | 1 33 4 | 21°22'55 | 14°20 | 6°11 | 22°21 | 23°44 | 9°55 | 7°27 | 14° 6 | 19°10 | 7°45 | 2°40 | 1°37 | 23°39 | 9°15 | S 14 | | | | | | | | |
| M15 | 1 37 1 | 22°22'04 | 27°20 | 7°43 | 23°35 | 24°20 | 10° 6 | 7°31 | 14°10 | 19°11 | 7°44 | 2°D40 | 1°34 | 23°46 | 9°12 | M15 | | | | | | | | |
| T 16 | 1 40 57 | 23°21'13 | 10♌43 | 9°14 | 24°50 | 24°56 | 10°17 | 7°35 | 14°13 | 19°11 | 7°43 | 2°40 | 1°31 | 23°52 | 9°10 | T 16 | | | | | | | | |
| W17 | 1 44 54 | 24°20'25 | 24°31 | 10°45 | 26° 5 | 25°31 | 10°28 | 7°38 | 14°17 | 19°11 | 7°42 | 2°42 | 1°28 | 23°59 | 9° 7 | W17 | | | | | | | | |
| T 18 | 1 48 50 | 25°19'38 | 8♌46 | 12°14 | 27°20 | 26° 6 | 10°39 | 7°42 | 14°20 | 19°11 | 7°41 | 2°43 | 1°25 | 24° 6 | 9° 4 | T 18 | | | | | | | | |
| F 19 | 1 52 47 | 26°18'53 | 23°25 | 13°43 | 28°35 | 26°42 | 10°50 | 7°45 | 14°24 | 19°11 | 7°40 | 2°44 | 1°21 | 24°12 | 9° 2 | F 19 | | | | | | | | |
| S 20 | 1 56 44 | 27°18'10 | 8♌24 | 15°11 | 29°50 | 27°17 | 11° 1 | 7°48 | 14°28 | 19°11 | 7°39 | 2°R44 | 1°18 | 24°19 | 8°59 | S 20 | | | | | | | | |
| S 21 | 2 0 40 | 28°17'28 | 23°36 | 16°39 | 1♍5 | 27°52 | 11°13 | 7°52 | 14°31 | 19°11 | 7°38 | 2°43 | 1°15 | 24°26 | 8°56 | S 21 | | | | | | | | |
| M22 | 2 4 37 | 29°16'49 | 8♌51 | 18° 5 | 2°20 | 28°27 | 11°24 | 7°55 | 14°35 | 19°R11 | 7°36 | 2°41 | 1°12 | 24°32 | 8°53 | M22 | | | | | | | | |
| T 23 | 2 8 33 | 0♍16'12 | 23°59 | 19°31 | 3°35 | 29° 2 | 11°36 | 7°58 | 14°39 | 19°11 | 7°35 | 2°37 | 1° 9 | 24°39 | 8°51 | T 23 | | | | | | | | |
| W24 | 2 12 30 | 1°15'37 | 8♌51 | 20°55 | 4°50 | 29°37 | 11°47 | 8° 1 | 14°42 | 19°11 | 7°34 | 2°33 | 1° 6 | 24°46 | 8°48 | W24 | | | | | | | | |
| T 25 | 2 16 26 | 2°15'04 | 23°20 | 22°19 | 6° 5 | 0♍12 | 11°59 | 8° 3 | 14°46 | 19°11 | 7°33 | 2°29 | 1° 2 | 24°52 | 8°45 | T 25 | | | | | | | | |
| F 26 | 2 20 23 | 3°14'33 | 7♌21 | 23°42 | 7°20 | 0°46 | 12°11 | 8° 6 | 14°50 | 19°11 | 7°32 | 2°26 | 0°59 | 24°59 | 8°42 | F 26 | | | | | | | | |
| S 27 | 2 24 19 | 4°14'05 | 20°53 | 25° 4 | 8°35 | 1°21 | 12°23 | 8° 9 | 14°53 | 19°11 | 7°31 | 2°24 | 0°56 | 25° 6 | 8°40 | S 27 | | | | | | | | |
| S 28 | 2 28 16 | 5°13'39 | 3♌58 | 26°25 | 9°50 | 1°55 | 12°35 | 8°11 | 14°57 | 19°11 | 7°30 | 2°D23 | 0°53 | 25°12 | 8°37 | S 28 | | | | | | | | |
| M29 | 2 32 13 | 6°13'16 | 16°39 | 27°45 | 11° 5 | 2°30 | 12°47 | 8°14 | 15° 1 | 19°11 | 7°29 | 2°23 | 0°50 | 25°19 | 8°34 | M29 | | | | | | | | |
| T 30 | 2 36 9 | 7°12'54 | 29° 1 | 29° 4 | 12°20 | 3° 4 | 12°59 | 8°16 | 15° 5 | 19°10 | 7°28 | 2°25 | 0°46 | 25°26 | 8°31 | T 30 | | | | | | | | |
| W31 | 2 40 6 | 8♌12'35 | 11♍7 | 0♌22 | 13♌35 | 3♍38 | 13♃11 | 8♄18 | 15♌8 | 19♌10 | 7♌V27 | 2♌V26 | 0♌V43 | 25♌32 | 8♌R28 | W31 | | | | | | | | |

Delta T = 17m59s

ASTRODIENST EPHEMERIS for the year 2564
geocentric

NOVEMBER 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|------|-----|
| T 1 | 2 44 2 | 9♐12'17 | 23♐ 3 | 1♂38 | 14♐50 | 4♐12 | 13♂23 | 8♁20 | 15♐12 | 19♁10 | 7♁26 | 2♐28 | 0♐40 | 25♁39 | 8♁25 | T 1 | |
| F 2 | 2 47 59 | 10°12'02 | 4♁53 | 2°53 | 16° 5 | 4°46 | 13°35 | 8°22 | 15°16 | 19♁9 | 7♐25 | 2°R28 | 0°37 | 25°46 | 8♁23 | F 2 | |
| S 3 | 2 51 55 | 11°11'49 | 16°40 | 4° 6 | 17°20 | 5°20 | 13°47 | 8°24 | 15°20 | 19° 9 | 7°24 | 2°27 | 0°34 | 25°52 | 8°20 | S 3 | |
| S 4 | 2 55 52 | 12°11'39 | 28°27 | 5°18 | 18°35 | 5°54 | 14° 0 | 8°26 | 15°23 | 19° 8 | 7°23 | 2°24 | 0°31 | 25°59 | 8°17 | S 4 | |
| M 5 | 2 59 48 | 13°11'30 | 10♐17 | 6°28 | 19°50 | 6°27 | 14°12 | 8°28 | 15°27 | 19° 8 | 7°22 | 2°19 | 0°27 | 26° 5 | 8°14 | M 5 | |
| T 6 | 3 3 45 | 14°11'23 | 22°13 | 7°36 | 21° 5 | 7° 1 | 14°24 | 8°29 | 15°31 | 19° 8 | 7°21 | 2°12 | 0°24 | 26°12 | 8°11 | T 6 | |
| W 7 | 3 7 42 | 15°11'18 | 4♁14 | 8°42 | 22°20 | 7°34 | 14°37 | 8°30 | 15°35 | 19° 7 | 7°20 | 2° 4 | 0°21 | 26°19 | 8° 9 | W 7 | |
| T 8 | 3 11 38 | 16°11'15 | 16°23 | 9°45 | 23°35 | 8° 7 | 14°50 | 8°32 | 15°38 | 19° 6 | 7°19 | 1°55 | 0°18 | 26°25 | 8° 6 | T 8 | |
| F 9 | 3 15 35 | 17°11'14 | 28°42 | 10°46 | 24°51 | 8°40 | 15° 2 | 8°33 | 15°42 | 19° 6 | 7°19 | 1°47 | 0°15 | 26°32 | 8° 3 | F 9 | |
| S 10 | 3 19 31 | 18°11'14 | 11♁12 | 11°43 | 26° 6 | 9°13 | 15°15 | 8°34 | 15°46 | 19° 5 | 7°18 | 1°40 | 0°12 | 26°39 | 8° 0 | S 10 | |
| S 11 | 3 23 28 | 19°11'16 | 23°55 | 12°38 | 27°21 | 9°46 | 15°28 | 8°35 | 15°50 | 19° 5 | 7°17 | 1°35 | 0° 8 | 26°45 | 7°57 | S 11 | |
| M12 | 3 27 24 | 20°11'20 | 6♁53 | 13°28 | 28°36 | 10°19 | 15°40 | 8°36 | 15°54 | 19° 4 | 7°16 | 1°32 | 0° 5 | 26°52 | 7°55 | M12 | |
| T 13 | 3 31 21 | 21°11'25 | 20°10 | 14°14 | 29°51 | 10°52 | 15°53 | 8°37 | 15°57 | 19° 3 | 7°15 | 1°D31 | 0° 2 | 26°59 | 7°52 | T 13 | |
| W14 | 3 35 17 | 22°11'31 | 3♁47 | 14°55 | 1♁ 6 | 11°24 | 16° 6 | 8°37 | 16° 1 | 19° 2 | 7°14 | 1°32 | 29♁59 | 27° 5 | 7°49 | W14 | |
| T 15 | 3 39 14 | 23°11'39 | 17°46 | 15°32 | 2°21 | 11°56 | 16°19 | 8°38 | 16° 5 | 19° 2 | 7°14 | 1°33 | 29°56 | 27°12 | 7°47 | T 15 | |
| F 16 | 3 43 11 | 24°11'49 | 2♐ 8 | 16° 2 | 3°36 | 12°29 | 16°32 | 8°38 | 16° 9 | 19° 1 | 7°13 | 1°R33 | 29°52 | 27°19 | 7°44 | F 16 | |
| S 17 | 3 47 7 | 25°12'00 | 16°50 | 16°26 | 4°51 | 13° 1 | 16°45 | 8°39 | 16°12 | 19° 0 | 7°12 | 1°32 | 29°49 | 27°25 | 7°41 | S 17 | |
| S 18 | 3 51 4 | 26°12'12 | 1♁48 | 16°42 | 6° 6 | 13°33 | 16°58 | 8°39 | 16°16 | 18°59 | 7°11 | 1°29 | 29°46 | 27°32 | 7°39 | S 18 | |
| M19 | 3 55 0 | 27°12'26 | 16°55 | 16°51 | 7°21 | 14° 4 | 17°11 | 8°R39 | 16°20 | 18°58 | 7°11 | 1°23 | 29°43 | 27°39 | 7°36 | M19 | |
| T 20 | 3 58 57 | 28°12'42 | 2♐ 1 | 16°R51 | 8°37 | 14°36 | 17°24 | 8°39 | 16°23 | 18°57 | 7°10 | 1°15 | 29°40 | 27°45 | 7°33 | T 20 | |
| W21 | 4 2 53 | 29°13'00 | 16°56 | 16°42 | 9°52 | 15° 7 | 17°37 | 8°39 | 16°27 | 18°56 | 7° 9 | 1° 6 | 29°37 | 27°52 | 7°31 | W21 | |
| T 22 | 4 6 50 | 0♁13'20 | 1♁31 | 16°23 | 11° 7 | 15°39 | 17°50 | 8°39 | 16°31 | 18°55 | 7° 9 | 0°57 | 29°33 | 27°59 | 7°28 | T 22 | |
| F 23 | 4 10 46 | 1°13'41 | 15°40 | 15°54 | 12°22 | 16°10 | 18° 3 | 8°38 | 16°35 | 18°54 | 7° 8 | 0°48 | 29°30 | 28° 5 | 7°26 | F 23 | |
| S 24 | 4 14 43 | 2°14'04 | 29°20 | 15°15 | 13°37 | 16°41 | 18°16 | 8°38 | 16°38 | 18°53 | 7° 7 | 0°42 | 29°27 | 28°12 | 7°23 | S 24 | |
| S 25 | 4 18 40 | 3°14'29 | 12♁32 | 14°25 | 14°52 | 17°12 | 18°29 | 8°37 | 16°42 | 18°52 | 7° 7 | 0°37 | 29°24 | 28°19 | 7°21 | S 25 | |
| M26 | 4 22 36 | 4°14'55 | 25°16 | 13°26 | 16° 7 | 17°43 | 18°43 | 8°36 | 16°46 | 18°51 | 7° 6 | 0°35 | 29°21 | 28°25 | 7°18 | M26 | |
| T 27 | 4 26 33 | 5°15'24 | 7♐39 | 12°19 | 17°22 | 18°13 | 18°56 | 8°36 | 16°49 | 18°50 | 7° 6 | 0°D34 | 29°18 | 28°32 | 7°16 | T 27 | |
| W28 | 4 30 29 | 6°15'54 | 19°45 | 11° 5 | 18°37 | 18°44 | 19° 9 | 8°35 | 16°53 | 18°49 | 7° 5 | 0°35 | 29°14 | 28°39 | 7°14 | W28 | |
| T 29 | 4 34 26 | 7°16'26 | 1♁39 | 9°46 | 19°53 | 19°14 | 19°23 | 8°34 | 16°56 | 18°48 | 7° 5 | 0°R35 | 29°11 | 28°45 | 7°11 | T 29 | |
| F 30 | 4 38 22 | 8♁17'00 | 13♁27 | 8♁24 | 21♁ 8 | 19♐44 | 19♁36 | 8♁33 | 17♐ 0 | 18♁47 | 7♐ 4 | 0♐34 | 29♁ 8 | 28♁52 | 7♁ 9 | F 30 | |

Delta T = 17m59s

DECEMBER 2564

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------|-----|
| S 1 | 4 42 19 | 9♁17'35 | 25♁13 | 7°R 3 | 22♁23 | 20♐14 | 19♁49 | 8°R31 | 17♐ 4 | 18°R45 | 7°R 4 | 0°R31 | 29♁ 5 | 28♁59 | 7°R 7 | S 1 | |
| S 2 | 4 46 15 | 10°18'13 | 7♐ 3 | 5♁45 | 23°38 | 20°44 | 20° 3 | 8♁30 | 17° 7 | 18♁44 | 7♐ 3 | 0°Y26 | 29° 2 | 29° 5 | 7♁ 4 | S 2 | |
| M 3 | 4 50 12 | 11°18'51 | 18°58 | 4°32 | 24°53 | 21°13 | 20°16 | 8°28 | 17°11 | 18°43 | 7° 3 | 0°17 | 28°58 | 29°12 | 7° 2 | M 3 | |
| T 4 | 4 54 9 | 12°19'31 | 1♁ 1 | 3°27 | 26° 8 | 21°43 | 20°30 | 8°27 | 17°14 | 18°42 | 7° 2 | 0° 6 | 28°55 | 29°19 | 7° 0 | T 4 | |
| W 5 | 4 58 5 | 13°20'13 | 13°15 | 2°32 | 27°23 | 22°12 | 20°43 | 8°25 | 17°18 | 18°40 | 7° 2 | 29♁53 | 28°52 | 29°25 | 6°58 | W 5 | |
| T 6 | 5 2 2 | 14°20'56 | 25°39 | 1°47 | 28°38 | 22°41 | 20°56 | 8°23 | 17°21 | 18°39 | 7° 2 | 29°39 | 28°49 | 29°32 | 6°56 | T 6 | |
| F 7 | 5 5 58 | 15°21'40 | 8♁13 | 1°14 | 29°54 | 23°10 | 21°10 | 8°22 | 17°25 | 18°38 | 7° 1 | 29°26 | 28°46 | 29°39 | 6°54 | F 7 | |
| S 8 | 5 9 55 | 16°22'26 | 20°59 | 0°52 | 1♁ 9 | 23°38 | 21°23 | 8°20 | 17°28 | 18°36 | 7° 1 | 29°14 | 28°43 | 29°45 | 6°52 | S 8 | |
| S 9 | 5 13 51 | 17°23'12 | 3♁56 | 0°D42 | 2°24 | 24° 7 | 21°37 | 8°17 | 17°32 | 18°35 | 7° 1 | 29° 5 | 28°39 | 29°52 | 6°50 | S 9 | |
| M10 | 5 17 48 | 18°24'00 | 17° 4 | 0°43 | 3°39 | 24°35 | 21°50 | 8°15 | 17°35 | 18°34 | 7° 1 | 28°58 | 28°36 | 29°59 | 6°48 | M10 | |
| T 11 | 5 21 45 | 19°24'48 | 0♁25 | 0°54 | 4°54 | 25° 3 | 22° 4 | 8°13 | 17°38 | 18°32 | 7° 0 | 28°55 | 28°33 | 0♐ 5 | 6°46 | T 11 | |
| W12 | 5 25 41 | 20°25'37 | 13°59 | 1°14 | 6° 9 | 25°31 | 22°17 | 8°10 | 17°42 | 18°31 | 7° 0 | 28°54 | 28°30 | 0°12 | 6°44 | W12 | |
| T 13 | 5 29 38 | 21°26'27 | 27°49 | 1°43 | 7°24 | 25°58 | 22°31 | 8° 8 | 17°45 | 18°29 | 7° 0 | 28°54 | 28°27 | 0°19 | 6°42 | T 13 | |
| F 14 | 5 33 34 | 22°27'18 | 11♐55 | 2°20 | 8°39 | 26°25 | 22°45 | 8° 5 | 17°48 | 18°28 | 7° 0 | 28°54 | 28°24 | 0°25 | 6°40 | F 14 | |
| S 15 | 5 37 31 | 23°28'09 | 26°16 | 3° 3 | 9°55 | 26°53 | 22°58 | 8° 3 | 17°51 | 18°26 | 7° 0 | 28°52 | 28°20 | 0°32 | 6°38 | S 15 | |
| S 16 | 5 41 27 | 24°29'02 | 10♁51 | 3°53 | 11°10 | 27°19 | 23°12 | 8° 0 | 17°55 | 18°25 | 6°59 | 28°47 | 28°17 | 0°39 | 6°37 | S 16 | |
| M17 | 5 45 24 | 25°29'55 | 25°35 | 4°48 | 12°25 | 27°46 | 23°25 | 7°57 | 17°58 | 18°23 | 6°59 | 28°40 | 28°14 | 0°45 | 6°35 | M17 | |
| T 18 | 5 49 20 | 26°30'49 | 10♐20 | 5°47 | 13°40 | 28°12 | 23°39 | 7°54 | 18° 1 | 18°22 | 6°59 | 28°29 | 28°11 | 0°52 | 6°34 | T 18 | |
| W19 | 5 53 17 | 27°31'44 | 25° 0 | 6°51 | 14°55 | 28°39 | 23°52 | 7°51 | 18° 4 | 18°20 | 6°59 | 28°17 | 28° 8 | 0°59 | 6°32 | W19 | |
| T 20 | 5 57 14 | 28°32'39 | 9♁26 | 7°58 | 16°10 | 29° 4 | 24° 6 | 7°48 | 18° 7 | 18°19 | 6°D59 | 28° 5 | 28° 4 | 1° 5 | 6°31 | T 20 | |
| F 21 | 6 1 10 | 29°33'36 | 23°32 | 9° 8 | 17°25 | 29°30 | 24°19 | 7°44 | 18°10 | 18°17 | 6°59 | 27°53 | 28° 1 | 1°12 | 6°29 | F 21 | |
| S 22 | 6 5 7 | 0♁34'34 | 7♁12 | 10°21 | 18°40 | 29°55 | 24°33 | 7°41 | 18°13 | 18°15 | 6°59 | 27°44 | 27°58 | 1°19 | 6°28 | S 22 | |
| S 23 | 6 9 3 | 1°35'32 | 20°26 | 11°37 | 19°55 | 0♁21 | 24°46 | 7°38 | 18°16 | 18°14 | 6°59 | 27°37 | 27°55 | 1°25 | 6°26 | S 23 | |
| M24 | 6 13 0 | 2°36'31 | 3♐15 | 12°54 | 21°10 | 0°45 | 25° 0 | 7°34 | 18°19 | 18°12 | 6°59 | 27°32 | 27°52 | 1°32 | 6°25 | M24 | |
| T 25 | 6 16 56 | 3°37'32 | 15°41 | 14°13 | 22°25 | 1°10 | 25°13 | 7°30 | 18°22 | 18°11 | 6°59 | 27°21 | 27°49 | 1°39 | 6°24 | T 25 | |
| W26 | 6 20 53 | 4°38'33 | 27°49 | 15°34 | 23°40 | 1°34 | 25°27 | 7°27 | 18°25 | 18° 9 | 7° 0 | 27°30 | 27°45 | 1°45 | 6°23 | W26 | |
| T 27 | 6 24 49 | 5°39'35 | 9♁45 | 16°55 | 24°55 | 1°58 | 25°40 | 7°23 | 18°28 | 18° 7 | 7° 0 | 27°30 | 27°42 | 1°52 | 6°22 | T 27 | |
| F 28 | 6 28 46 | 6°40'38 | 21°34 | 18°19 | 26°10 | 2°22 | 25°53 | 7°19 | 18°31 | 18° 6 | 7° 0 | 27°29 | 27°39 | 1°59 | 6°20 | F 28 | |
| S 29 | 6 32 43 | 7°41'42 | 3♐22 | 19°43 | 27°25 | 2°45 | 26° 7 | 7°15 | 18°34 | 18° 4 | 7° 0 | 27°27 | 27°36 | 2° 5 | 6°19 | S 29 | |
| S 30 | 6 36 39 | 8°42'47 | 15°14 | 21° 8 | 28°41 | 3° 8 | 26°20 | 7°11 | 18°37 | 18° 2 | 7° 0 | 27°21 | 27°33 | 2°12 | 6°18 | S 30 | |
| M31 | 6 40 36 | 9♁43'52 | 27♐13 | 22♁34 | 29♁56 | 3♁31 | 26♁34 | 7♁ 7 | 18♐39 | 18♁ 1 | 7♐ 1 | 27♁13 | 27♁30 | 2♐19 | 6♁18 | M31 | |

Delta T = 17m59s

ASTRODIENST EPHEMERIS for the year 2565
geocentric

JANUARY 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|------|-------|------|-----|
| T 1 | 6 44 32 | 10♁44'59 | 9♁25 | 24♁0 | 1♁11 | 3♁54 | 26♁47 | 7°R 3 | 18♁42 | 17°R59 | 7°Y 1 | 27°R 3 | 27♁26 | 2♁25 | 6°R17 | T 1 | |
| W 2 | 6 48 29 | 11°46'06 | 21°49 | 25°28 | 2°26 | 4°16 | 27° 0 | 6♁59 | 18°45 | 17♁57 | 7° 1 | 26♁50 | 27°23 | 2°32 | 6♁16 | W 2 | |
| T 3 | 6 52 25 | 12°47'13 | 4♁28 | 26°56 | 3°41 | 4°38 | 27°14 | 6°55 | 18°47 | 17°56 | 7° 1 | 26°36 | 27°20 | 2°39 | 6°15 | T 3 | |
| F 4 | 6 56 22 | 13°48'21 | 17°22 | 28°24 | 4°56 | 4°59 | 27°27 | 6°50 | 18°50 | 17°54 | 7° 2 | 26°23 | 27°17 | 2°45 | 6°14 | F 4 | |
| S 5 | 7 0 19 | 14°49'29 | 0♁29 | 29°53 | 6°11 | 5°20 | 27°40 | 6°46 | 18°52 | 17°52 | 7° 2 | 26°12 | 27°14 | 2°52 | 6°14 | S 5 | |
| S 6 | 7 4 15 | 15°50'37 | 13°49 | 1♁22 | 7°25 | 5°41 | 27°54 | 6°42 | 18°55 | 17°50 | 7° 2 | 26° 2 | 27°10 | 2°59 | 6°13 | S 6 | |
| M 7 | 7 8 12 | 16°51'45 | 27°18 | 2°52 | 8°40 | 6° 1 | 28° 7 | 6°37 | 18°57 | 17°49 | 7° 3 | 25°56 | 27° 7 | 3° 5 | 6°13 | M 7 | |
| T 8 | 7 12 8 | 17°52'53 | 10♁56 | 4°22 | 9°55 | 6°21 | 28°20 | 6°33 | 19° 0 | 17°47 | 7° 3 | 25°53 | 27° 4 | 3°12 | 6°12 | T 8 | |
| W 9 | 7 16 5 | 18°54'01 | 24°42 | 5°53 | 11°10 | 6°41 | 28°33 | 6°28 | 19° 2 | 17°45 | 7° 4 | 25°D52 | 27° 1 | 3°19 | 6°12 | W 9 | |
| T 10 | 7 20 1 | 19°55'09 | 8°Y36 | 7°24 | 12°25 | 7° 0 | 28°46 | 6°23 | 19° 4 | 17°44 | 7° 4 | 25°52 | 26°58 | 3°25 | 6°11 | T 10 | |
| F 11 | 7 23 58 | 20°56'17 | 22°38 | 8°55 | 13°40 | 7°19 | 28°59 | 6°19 | 19° 7 | 17°42 | 7° 5 | 25°R53 | 26°55 | 3°32 | 6°11 | F 11 | |
| S 12 | 7 27 54 | 21°57'25 | 6♁46 | 10°27 | 14°55 | 7°37 | 29°12 | 6°14 | 19° 9 | 17°40 | 7° 5 | 25°52 | 26°51 | 3°39 | 6°11 | S 12 | |
| S 13 | 7 31 51 | 22°58'32 | 21° 0 | 11°59 | 16°10 | 7°55 | 29°25 | 6° 9 | 19°11 | 17°39 | 7° 6 | 25°49 | 26°48 | 3°46 | 6°11 | S 13 | |
| M14 | 7 35 48 | 23°59'39 | 5♁18 | 13°32 | 17°25 | 8°12 | 29°38 | 6° 5 | 19°13 | 17°37 | 7° 6 | 25°43 | 26°45 | 3°52 | 6°11 | M14 | |
| T 15 | 7 39 44 | 25° 0'46 | 19°35 | 15° 4 | 18°39 | 8°29 | 29°51 | 6° 0 | 19°15 | 17°35 | 7° 7 | 25°35 | 26°42 | 3°59 | 6°10 | T 15 | |
| W16 | 7 43 41 | 26° 1'53 | 3♁48 | 16°38 | 19°54 | 8°46 | 0♁4 | 5°55 | 19°17 | 17°34 | 7° 8 | 25°25 | 26°39 | 4° 6 | 6°D10 | W16 | |
| T 17 | 7 47 37 | 27° 2'59 | 17°50 | 18°11 | 21° 9 | 9° 2 | 0°17 | 5°50 | 19°19 | 17°32 | 7° 8 | 25°15 | 26°36 | 4°12 | 6°10 | T 17 | |
| F 18 | 7 51 34 | 28° 4'05 | 1♁37 | 19°45 | 22°24 | 9°18 | 0°30 | 5°45 | 19°21 | 17°30 | 7° 9 | 25° 5 | 26°32 | 4°19 | 6°11 | F 18 | |
| S 19 | 7 55 30 | 29° 5'11 | 15° 4 | 21°20 | 23°38 | 9°33 | 0°43 | 5°40 | 19°23 | 17°29 | 7°10 | 24°57 | 26°29 | 4°26 | 6°11 | S 19 | |
| S 20 | 7 59 27 | 0♁ 6'17 | 28°11 | 22°55 | 24°53 | 9°48 | 0°55 | 5°36 | 19°25 | 17°27 | 7°10 | 24°51 | 26°26 | 4°32 | 6°11 | S 20 | |
| M21 | 8 3 23 | 1° 7'22 | 10♁57 | 24°30 | 26° 8 | 10° 2 | 1° 8 | 5°31 | 19°27 | 17°25 | 7°11 | 24°48 | 26°23 | 4°39 | 6°11 | M21 | |
| T 22 | 8 7 20 | 2° 8'27 | 23°23 | 26° 6 | 27°22 | 10°16 | 1°20 | 5°26 | 19°28 | 17°24 | 7°12 | 24°D47 | 26°20 | 4°46 | 6°12 | T 22 | |
| W23 | 8 11 17 | 3° 9'32 | 5♁33 | 27°42 | 28°37 | 10°29 | 1°33 | 5°21 | 19°30 | 17°22 | 7°12 | 24°47 | 26°16 | 4°52 | 6°12 | W23 | |
| T 24 | 8 15 13 | 4°10'37 | 17°31 | 29°19 | 29°52 | 10°42 | 1°46 | 5°16 | 19°32 | 17°20 | 7°13 | 24°48 | 26°13 | 4°59 | 6°12 | T 24 | |
| F 25 | 8 19 10 | 5°11'42 | 29°22 | 0♁56 | 1♁6 | 10°54 | 1°58 | 5°11 | 19°33 | 17°19 | 7°14 | 24°50 | 26°10 | 5° 6 | 6°13 | F 25 | |
| S 26 | 8 23 6 | 6°12'47 | 11♁12 | 2°34 | 2°21 | 11° 6 | 2°10 | 5° 6 | 19°35 | 17°17 | 7°15 | 24°R50 | 26° 7 | 5°12 | 6°13 | S 26 | |
| S 27 | 8 27 3 | 7°13'52 | 23° 5 | 4°12 | 3°35 | 11°17 | 2°23 | 5° 1 | 19°36 | 17°16 | 7°16 | 24°48 | 26° 4 | 5°19 | 6°14 | S 27 | |
| M28 | 8 30 59 | 8°14'56 | 5♁6 | 5°51 | 4°50 | 11°28 | 2°35 | 4°56 | 19°38 | 17°14 | 7°17 | 24°44 | 26° 1 | 5°26 | 6°15 | M28 | |
| T 29 | 8 34 56 | 9°16'00 | 17°20 | 7°31 | 6° 4 | 11°38 | 2°47 | 4°51 | 19°39 | 17°12 | 7°17 | 24°39 | 25°57 | 5°32 | 6°15 | T 29 | |
| W30 | 8 38 52 | 10°17'03 | 29°51 | 9°11 | 7°19 | 11°47 | 2°59 | 4°46 | 19°40 | 17°11 | 7°18 | 24°32 | 25°54 | 5°39 | 6°16 | W30 | |
| T 31 | 8 42 49 | 11°18'07 | 12♁41 | 10°52 | 8♁33 | 11°56 | 3♁11 | 4°41 | 19♁42 | 17°9 | 7°Y19 | 24♁24 | 25♁51 | 5♁46 | 6♁17 | T 31 | |

Delta T = 17m59s

FEBRUARY 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|--------|--------|------|-------|--------|--------|-------|--------|-------|------|------|------|-----|
| F 1 | 8 46 46 | 12°19'09 | 25♁49 | 12°33 | 9♁48 | 12°4 | 3♁23 | 4°R36 | 19♁43 | 17°R 8 | 7°Y20 | 24°R16 | 25♁48 | 5♁52 | 6♁18 | F 1 | |
| S 2 | 8 50 42 | 13°20'11 | 9♁16 | 14°15 | 11° 2 | 12°11 | 3°35 | 4°Q31 | 19°44 | 17°56 | 7°21 | 24♁9 | 25°45 | 5°59 | 6°19 | S 2 | |
| S 3 | 8 54 39 | 14°21'12 | 22°59 | 15°57 | 12°16 | 12°18 | 3°47 | 4°27 | 19°45 | 17° 5 | 7°22 | 24° 3 | 25°42 | 6° 6 | 6°20 | S 3 | |
| M 4 | 8 58 35 | 15°22'13 | 6♁56 | 17°40 | 13°31 | 12°24 | 3°59 | 4°22 | 19°46 | 17° 3 | 7°23 | 24° 0 | 25°38 | 6°12 | 6°21 | M 4 | |
| T 5 | 9 2 32 | 16°23'12 | 21° 1 | 19°23 | 14°45 | 12°30 | 4°11 | 4°17 | 19°47 | 17° 2 | 7°24 | 23°D59 | 25°35 | 6°19 | 6°22 | T 5 | |
| W 6 | 9 6 28 | 17°24'10 | 5°Y12 | 21° 8 | 15°59 | 12°35 | 4°23 | 4°12 | 19°48 | 17° 1 | 7°25 | 23°59 | 25°32 | 6°26 | 6°23 | W 6 | |
| T 7 | 9 10 25 | 18°25'08 | 19°24 | 22°52 | 17°13 | 12°39 | 4°34 | 4° 8 | 19°49 | 16°59 | 7°26 | 24° 1 | 25°29 | 6°32 | 6°25 | T 7 | |
| F 8 | 9 14 21 | 19°26'04 | 3♁37 | 24°37 | 18°27 | 12°42 | 4°46 | 4° 3 | 19°50 | 16°58 | 7°27 | 24° 2 | 25°26 | 6°39 | 6°26 | F 8 | |
| S 9 | 9 18 18 | 20°26'58 | 17°47 | 26°23 | 19°41 | 12°45 | 4°57 | 3°58 | 19°51 | 16°56 | 7°28 | 24°R 3 | 25°22 | 6°46 | 6°27 | S 9 | |
| S 10 | 9 22 15 | 21°27'52 | 1♁53 | 28° 9 | 20°56 | 12°47 | 5° 8 | 3°54 | 19°51 | 16°55 | 7°29 | 24° 3 | 25°19 | 6°52 | 6°29 | S 10 | |
| M11 | 9 26 11 | 22°28'44 | 15°54 | 29°56 | 22°10 | 12°49 | 5°20 | 3°49 | 19°52 | 16°54 | 7°31 | 24° 1 | 25°16 | 6°59 | 6°30 | M11 | |
| T 12 | 9 30 8 | 23°29'35 | 29°47 | 1♁42 | 23°24 | 12°R49 | 5°31 | 3°44 | 19°53 | 16°52 | 7°32 | 23°57 | 25°13 | 7° 6 | 6°32 | T 12 | |
| W13 | 9 34 4 | 24°30'25 | 13♁31 | 3°29 | 24°37 | 12°49 | 5°42 | 3°40 | 19°53 | 16°51 | 7°33 | 23°53 | 25°10 | 7°12 | 6°33 | W13 | |
| T 14 | 9 38 1 | 25°31'13 | 27° 4 | 5°16 | 25°51 | 12°48 | 5°53 | 3°36 | 19°54 | 16°50 | 7°34 | 23°48 | 25° 7 | 7°19 | 6°35 | T 14 | |
| F 15 | 9 41 57 | 26°32'00 | 10♁24 | 7° 3 | 27° 5 | 12°47 | 6° 4 | 3°31 | 19°54 | 16°49 | 7°35 | 23°44 | 25° 3 | 7°26 | 6°36 | F 15 | |
| S 16 | 9 45 54 | 27°32'46 | 23°29 | 8°49 | 28°19 | 12°44 | 6°15 | 3°27 | 19°55 | 16°47 | 7°36 | 23°40 | 25° 0 | 7°33 | 6°38 | S 16 | |
| S 17 | 9 49 51 | 28°33'30 | 6♁19 | 10°35 | 29°33 | 12°41 | 6°25 | 3°23 | 19°55 | 16°46 | 7°38 | 23°38 | 24°57 | 7°39 | 6°40 | S 17 | |
| M18 | 9 53 47 | 29°34'13 | 18°54 | 12°20 | 0°Y46 | 12°37 | 6°36 | 3°19 | 19°55 | 16°45 | 7°39 | 23°D36 | 24°54 | 7°46 | 6°42 | M18 | |
| T 19 | 9 57 44 | 0♁34'55 | 1♁14 | 14° 4 | 2° 0 | 12°33 | 6°47 | 3°14 | 19°55 | 16°44 | 7°40 | 23°37 | 24°51 | 7°53 | 6°43 | T 19 | |
| W20 | 10 1 40 | 1°35'36 | 13°21 | 15°47 | 3°13 | 12°27 | 6°57 | 3°10 | 19°56 | 16°43 | 7°41 | 23°38 | 24°48 | 7°59 | 6°45 | W20 | |
| T 21 | 10 5 37 | 2°36'16 | 25°19 | 17°28 | 4°27 | 12°21 | 7° 7 | 3° 6 | 19°56 | 16°42 | 7°43 | 23°39 | 24°44 | 8° 6 | 6°47 | T 21 | |
| F 22 | 10 9 33 | 3°36'55 | 7♁11 | 19° 6 | 5°40 | 12°14 | 7°18 | 3° 2 | 19°56 | 16°41 | 7°44 | 23°41 | 24°41 | 8°13 | 6°49 | F 22 | |
| S 23 | 10 13 30 | 4°37'32 | 19° 1 | 20°42 | 6°54 | 12° 6 | 7°28 | 2°59 | 19°R56 | 16°40 | 7°45 | 23°42 | 24°38 | 8°19 | 6°51 | S 23 | |
| S 24 | 10 17 26 | 5°38'09 | 0♁54 | 22°14 | 8° 7 | 11°58 | 7°38 | 2°55 | 19°56 | 16°39 | 7°46 | 23°R43 | 24°35 | 8°26 | 6°53 | S 24 | |
| M25 | 10 21 23 | 6°38'44 | 12°55 | 23°43 | 9°20 | 11°48 | 7°48 | 2°51 | 19°56 | 16°38 | 7°48 | 23°43 | 24°32 | 8°33 | 6°56 | M25 | |
| T 26 | 10 25 19 | 7°39'18 | 25° 8 | 25° 7 | 10°34 | 11°38 | 7°58 | 2°48 | 19°55 | 16°37 | 7°49 | 23°42 | 24°28 | 8°39 | 6°58 | T 26 | |
| W27 | 10 29 16 | 8°39'51 | 7♁38 | 26°26 | 11°47 | 11°27 | 8° 8 | 2°44 | 19°55 | 16°36 | 7°50 | 23°41 | 24°25 | 8°46 | 7° 0 | W27 | |
| T 28 | 10 33 13 | 9♁40'23 | 20♁29 | 27♁39 | 13°Y 0 | 11°16 | 8♁17 | 2°41 | 19♁55 | 16°35 | 7°Y52 | 23♁39 | 24♁22 | 8♁53 | 7♁2 | T 28 | |

Delta T = 18m00s

ASTRODIENST EPHEMERIS for the year 2565
geocentric

MARCH 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|---------|--------|--------|--------|--------|-------|--------|--------|-------|--------|--------|--------|-------|------|-----|
| F 1 | 10 37 9 | 10°40'53 | 3°43 | 28°45 | 14°13 | 11°R 3 | 8°27 | 2°R37 | 19°R55 | 16°R34 | 7°Y53 | 23°R37 | 24°X19 | 8°M59 | 7°B 5 | F 1 | |
| S 2 | 10 41 6 | 11°41'22 | 17°20 | 29°44 | 15°26 | 10°A50 | 8°36 | 2°Q34 | 19°M54 | 16°E33 | 7°S55 | 23°X35 | 24°16 | 9° 6 | 7° 7 | S 2 | |
| S 3 | 10 45 2 | 12°41'50 | 1°19 | 0°Y35 | 16°39 | 10°36 | 8°45 | 2°31 | 19°54 | 16°32 | 7°56 | 23°34 | 24°13 | 9°13 | 7° 9 | S 3 | |
| M 4 | 10 48 59 | 13°42'15 | 15°37 | 1°18 | 17°52 | 10°21 | 8°55 | 2°28 | 19°53 | 16°32 | 7°57 | 23°34 | 24° 9 | 9°19 | 7°12 | M 4 | |
| T 5 | 10 52 55 | 14°42'40 | 0°Y 9 | 1°52 | 19° 4 | 10° 6 | 9° 4 | 2°25 | 19°53 | 16°31 | 7°59 | 23°D33 | 24° 6 | 9°26 | 7°14 | T 5 | |
| W 6 | 10 56 52 | 15°43'02 | 14°49 | 2°17 | 20°17 | 9°50 | 9°13 | 2°22 | 19°52 | 16°30 | 8° 0 | 23°34 | 24° 3 | 9°33 | 7°17 | W 6 | |
| T 7 | 11 0 48 | 16°43'23 | 29°29 | 2°32 | 21°30 | 9°33 | 9°21 | 2°19 | 19°52 | 16°29 | 8° 2 | 23°34 | 24° 0 | 9°39 | 7°19 | T 7 | |
| F 8 | 11 4 45 | 17°43'42 | 14°B 5 | 2°R37 | 22°42 | 9°15 | 9°30 | 2°16 | 19°51 | 16°29 | 8° 3 | 23°35 | 23°57 | 9°46 | 7°22 | F 8 | |
| S 9 | 11 8 42 | 18°43'59 | 28°31 | 2°32 | 23°55 | 8°57 | 9°39 | 2°13 | 19°50 | 16°28 | 8° 4 | 23°36 | 23°53 | 9°53 | 7°25 | S 9 | |
| S 10 | 11 12 38 | 19°44'14 | 12°II44 | 2°18 | 25° 7 | 8°38 | 9°47 | 2°11 | 19°49 | 16°28 | 8° 6 | 23°36 | 23°50 | 10° 0 | 7°27 | S 10 | |
| M11 | 11 16 35 | 20°44'27 | 26°41 | 1°55 | 26°20 | 8°19 | 9°55 | 2° 8 | 19°48 | 16°27 | 8° 7 | 23°R36 | 23°47 | 10° 6 | 7°30 | M11 | |
| T 12 | 11 20 31 | 21°44'38 | 10°E22 | 1°24 | 27°32 | 7°59 | 10° 4 | 2° 6 | 19°48 | 16°27 | 8° 9 | 23°36 | 23°44 | 10°13 | 7°33 | T 12 | |
| W13 | 11 24 28 | 22°44'46 | 23°47 | 0°45 | 28°44 | 7°39 | 10°12 | 2° 4 | 19°47 | 16°26 | 8°10 | 23°36 | 23°41 | 10°20 | 7°35 | W13 | |
| T 14 | 11 28 24 | 23°44'53 | 6°Q57 | 29°X59 | 29°56 | 7°18 | 10°20 | 2° 2 | 19°46 | 16°26 | 8°12 | 23°D35 | 23°38 | 10°26 | 7°38 | T 14 | |
| F 15 | 11 32 21 | 24°44'58 | 19°52 | 29° 7 | 1°B 8 | 6°57 | 10°27 | 2° 0 | 19°44 | 16°25 | 8°13 | 23°36 | 23°34 | 10°33 | 7°41 | F 15 | |
| S 16 | 11 36 17 | 25°45'00 | 2°M34 | 28°12 | 2°20 | 6°35 | 10°35 | 1°58 | 19°43 | 16°25 | 8°15 | 23°36 | 23°31 | 10°40 | 7°44 | S 16 | |
| S 17 | 11 40 14 | 26°45'01 | 15° 4 | 27°13 | 3°32 | 6°13 | 10°43 | 1°56 | 19°42 | 16°24 | 8°16 | 23°36 | 23°28 | 10°46 | 7°47 | S 17 | |
| M18 | 11 44 11 | 27°45'00 | 27°23 | 26°13 | 4°43 | 5°51 | 10°50 | 1°54 | 19°41 | 16°24 | 8°18 | 23°R36 | 23°25 | 10°53 | 7°50 | M18 | |
| T 19 | 11 48 7 | 28°44'57 | 9°A33 | 25°13 | 5°55 | 5°28 | 10°57 | 1°53 | 19°40 | 16°24 | 8°19 | 23°36 | 23°22 | 11° 0 | 7°53 | T 19 | |
| W20 | 11 52 4 | 29°44'52 | 21°34 | 24°15 | 7° 7 | 5° 5 | 11° 4 | 1°51 | 19°38 | 16°23 | 8°21 | 23°35 | 23°19 | 11° 6 | 7°56 | W20 | |
| T 21 | 11 56 0 | 0°Y44'45 | 3°M29 | 23°19 | 8°18 | 4°42 | 11°11 | 1°50 | 19°37 | 16°23 | 8°22 | 23°34 | 23°15 | 11°13 | 7°59 | T 21 | |
| F 22 | 11 59 57 | 1°44'36 | 15°20 | 22°26 | 9°29 | 4°19 | 11°18 | 1°48 | 19°36 | 16°23 | 8°24 | 23°33 | 23°12 | 11°20 | 8° 2 | F 22 | |
| S 23 | 12 3 53 | 2°44'26 | 27°10 | 21°38 | 10°41 | 3°55 | 11°25 | 1°47 | 19°34 | 16°23 | 8°25 | 23°32 | 23° 9 | 11°26 | 8° 5 | S 23 | |
| S 24 | 12 7 50 | 3°44'14 | 9°A 3 | 20°54 | 11°52 | 3°32 | 11°31 | 1°46 | 19°33 | 16°23 | 8°27 | 23°31 | 23° 6 | 11°33 | 8° 8 | S 24 | |
| M25 | 12 11 46 | 4°44'01 | 21° 3 | 20°17 | 13° 3 | 3° 8 | 11°38 | 1°45 | 19°31 | 16°23 | 8°28 | 23°30 | 23° 3 | 11°40 | 8°12 | M25 | |
| T 26 | 12 15 43 | 5°43'46 | 3°B14 | 19°45 | 14°14 | 2°45 | 11°44 | 1°44 | 19°30 | 16°23 | 8°30 | 23°D29 | 22°59 | 11°47 | 8°15 | T 26 | |
| W27 | 12 19 40 | 6°43'29 | 15°41 | 19°20 | 15°25 | 2°21 | 11°50 | 1°44 | 19°28 | 16°D23 | 8°31 | 23°30 | 22°56 | 11°53 | 8°18 | W27 | |
| T 28 | 12 23 36 | 7°43'10 | 28°27 | 19° 1 | 16°35 | 1°58 | 11°56 | 1°43 | 19°27 | 16°23 | 8°33 | 23°30 | 22°53 | 12° 0 | 8°21 | T 28 | |
| F 29 | 12 27 33 | 8°42'50 | 11°A37 | 18°48 | 17°46 | 1°34 | 12° 1 | 1°42 | 19°25 | 16°23 | 8°34 | 23°31 | 22°50 | 12° 7 | 8°24 | F 29 | |
| S 30 | 12 31 29 | 9°42'28 | 25°12 | 18°41 | 18°56 | 1°11 | 12° 7 | 1°42 | 19°23 | 16°23 | 8°36 | 23°33 | 22°47 | 12°13 | 8°28 | S 30 | |
| S 31 | 12 35 26 | 10°Y42'04 | 9°X14 | 18°D40 | 20°B 7 | 0°A48 | 12°B12 | 1°Q42 | 19°M21 | 16°E23 | 8°Y37 | 23°X34 | 22°X44 | 12°M20 | 8°B31 | S 31 | |

Delta T = 18m00s

APRIL 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|--------|--------|---------|--------|--------|-------|--------|--------|-------|--------|--------|--------|-------|------|-----|
| M 1 | 12 39 22 | 11°Y41'39 | 23°X41 | 18°45 | 21°B17 | 0°R25 | 12°B18 | 1°R41 | 19°R20 | 16°E23 | 8°Y39 | 23°R34 | 22°X40 | 12°M27 | 8°B34 | M 1 | |
| T 2 | 12 43 19 | 12°41'11 | 8°Y28 | 18°56 | 22°27 | 0°A 3 | 12°23 | 1°D41 | 19°M18 | 16°E23 | 8°40 | 23°X34 | 22°37 | 12°33 | 8°38 | T 2 | |
| W 3 | 12 47 15 | 13°40'41 | 23°28 | 19°12 | 23°37 | 29°M41 | 12°28 | 1°Q41 | 19°16 | 16°E23 | 8°42 | 23°32 | 22°34 | 12°40 | 8°41 | W 3 | |
| T 4 | 12 51 12 | 14°40'10 | 8°B34 | 19°33 | 24°47 | 29°20 | 12°32 | 1°42 | 19°14 | 16°E24 | 8°43 | 23°30 | 22°31 | 12°47 | 8°45 | T 4 | |
| F 5 | 12 55 9 | 15°39'36 | 23°35 | 19°59 | 25°57 | 28°58 | 12°37 | 1°42 | 19°12 | 16°E24 | 8°45 | 23°27 | 22°28 | 12°53 | 8°48 | F 5 | |
| S 6 | 12 59 5 | 16°39'00 | 8°II23 | 20°29 | 27° 7 | 28°38 | 12°41 | 1°42 | 19°10 | 16°E24 | 8°46 | 23°24 | 22°25 | 13° 0 | 8°51 | S 6 | |
| S 7 | 13 3 2 | 17°38'22 | 22°51 | 21° 4 | 28°16 | 28°17 | 12°46 | 1°43 | 19° 8 | 16°E25 | 8°48 | 23°21 | 22°21 | 13° 7 | 8°55 | S 7 | |
| M 8 | 13 6 58 | 18°37'42 | 6°E57 | 21°42 | 29°26 | 27°58 | 12°50 | 1°43 | 19° 6 | 16°E25 | 8°49 | 23°20 | 22°18 | 13°14 | 8°58 | M 8 | |
| T 9 | 13 10 55 | 19°36'59 | 20°39 | 22°25 | 0°II35 | 27°39 | 12°54 | 1°44 | 19° 4 | 16°E25 | 8°51 | 23°D19 | 22°15 | 13°20 | 9° 2 | T 9 | |
| W10 | 13 14 51 | 20°36'14 | 3°Q57 | 23°11 | 1°44 | 27°20 | 12°57 | 1°45 | 19° 2 | 16°E26 | 8°52 | 23°20 | 22°12 | 13°27 | 9° 5 | W10 | |
| T 11 | 13 18 48 | 21°35'27 | 16°55 | 24° 0 | 2°53 | 27° 2 | 13° 1 | 1°46 | 19° 0 | 16°E26 | 8°54 | 23°21 | 22° 9 | 13°34 | 9° 9 | T 11 | |
| F 12 | 13 22 44 | 22°34'37 | 29°35 | 24°53 | 4° 2 | 26°45 | 13° 4 | 1°47 | 18°57 | 16°E27 | 8°55 | 23°23 | 22° 5 | 13°40 | 9°13 | F 12 | |
| S 13 | 13 26 41 | 23°33'45 | 12°M 0 | 25°49 | 5°10 | 26°29 | 13° 7 | 1°48 | 18°55 | 16°E27 | 8°57 | 23°24 | 22° 2 | 13°47 | 9°16 | S 13 | |
| S 14 | 13 30 38 | 24°32'51 | 24°14 | 26°48 | 6°19 | 26°13 | 13°11 | 1°49 | 18°53 | 16°E28 | 8°58 | 23°R25 | 21°59 | 13°54 | 9°20 | S 14 | |
| M15 | 13 34 34 | 25°31'54 | 6°A19 | 27°49 | 7°27 | 25°57 | 13°13 | 1°50 | 18°51 | 16°E29 | 9° 0 | 23°24 | 21°56 | 14° 0 | 9°23 | M15 | |
| T 16 | 13 38 31 | 26°30'56 | 18°18 | 28°53 | 8°35 | 25°43 | 13°16 | 1°52 | 18°48 | 16°E29 | 9° 1 | 23°22 | 21°53 | 14° 7 | 9°27 | T 16 | |
| W17 | 13 42 27 | 27°29'56 | 0°M13 | 29°59 | 9°43 | 25°29 | 13°18 | 1°54 | 18°46 | 16°E30 | 9° 2 | 23°17 | 21°50 | 14°14 | 9°30 | W17 | |
| T 18 | 13 46 24 | 28°28'53 | 12° 4 | 1°Y 9 | 10°51 | 25°16 | 13°21 | 1°55 | 18°44 | 16°E31 | 9° 4 | 23°12 | 21°46 | 14°20 | 9°34 | T 18 | |
| F 19 | 13 50 20 | 29°27'49 | 23°55 | 2°20 | 11°59 | 25° 4 | 13°23 | 1°57 | 18°41 | 16°E31 | 9° 5 | 23° 5 | 21°43 | 14°27 | 9°38 | F 19 | |
| S 20 | 13 54 17 | 0°B26'43 | 5°A48 | 3°34 | 13° 6 | 24°53 | 13°25 | 1°59 | 18°39 | 16°E32 | 9° 7 | 22°58 | 21°40 | 14°34 | 9°41 | S 20 | |
| S 21 | 13 58 13 | 1°25'35 | 17°43 | 4°49 | 14°14 | 24°42 | 13°27 | 2° 1 | 18°37 | 16°E33 | 9° 8 | 22°52 | 21°37 | 14°41 | 9°45 | S 21 | |
| M22 | 14 2 10 | 2°24'25 | 29°45 | 6° 7 | 15°21 | 24°32 | 13°28 | 2° 3 | 18°34 | 16°E34 | 9°10 | 22°46 | 21°34 | 14°47 | 9°49 | M22 | |
| T 23 | 14 6 6 | 3°23'14 | 11°B56 | 7°27 | 16°28 | 24°23 | 13°30 | 2° 5 | 18°32 | 16°E35 | 9°11 | 22°42 | 21°31 | 14°54 | 9°52 | T 23 | |
| W24 | 14 10 3 | 4°22'00 | 24°21 | 8°49 | 17°34 | 24°14 | 13°31 | 2° 7 | 18°29 | 16°E36 | 9°12 | 22°40 | 21°27 | 15° 1 | 9°56 | W24 | |
| T 25 | 14 14 0 | 5°20'46 | 7°A 2 | 10°12 | 18°41 | 24° 7 | 13°32 | 2°10 | 18°27 | 16°E37 | 9°14 | 22°D39 | 21°24 | 15° 7 | 10° 0 | T 25 | |
| F 26 | 14 17 56 | 6°19'29 | 20° 5 | 11°38 | 19°47 | 24° 0 | 13°33 | 2°12 | 18°25 | 16°E38 | 9°15 | 22°40 | 21°21 | 15°14 | 10° 3 | F 26 | |
| S 27 | 14 21 53 | 7°18'11 | 3°X32 | 13° 5 | 20°54 | 23°54 | 13°33 | 2°15 | 18°22 | 16°E39 | 9°17 | 22°41 | 21°18 | 15°21 | 10° 7 | S 27 | |
| S 28 | 14 25 49 | 8°16'51 | 17°26 | 14°34 | 21°59 | 23°49 | 13°34 | 2°18 | 18°20 | 16°E40 | 9°18 | 22°R42 | 21°15 | 15°27 | 10°11 | S 28 | |
| M29 | 14 29 46 | 9°15'29 | 1°Y48 | 16° 5 | 23° 5 | 23°44 | 13°34 | 2°21 | 18°17 | 16°E41 | 9°19 | 22°42 | 21°11 | 15°34 | 10°14 | M29 | |
| T 30 | 14 33 42 | 10°B14'06 | 16°Y34 | 17°Y38 | 24°II11 | 23°M40 | 13°R34 | 2°Q23 | 18°M15 | 16°E42 | 9°Y21 | 22°X40 | 21°X 8 | 1 | | | |

ASTRODIENST EPHEMERIS for the year 2565
geocentric

MAY 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|--------|--------|------|--------|-------|------|--------|-------|-------|-------|------|
| W 1 | 14 37 39 | 11♌12'41 | 1♌40 | 19♀12 | 25♂16 | 23°R37 | 13°R34 | 2♌26 | 18°R12 | 16♌43 | 9♀22 | 22°R36 | 21♌5 | 15♌48 | 10♌22 | W 1 |
| T 2 | 14 41 35 | 12°11'14 | 16°56 | 20°48 | 26°21 | 23♌35 | 13♌33 | 2°30 | 18♌10 | 16°44 | 9°23 | 22♌29 | 21°2 | 15°54 | 10°25 | T 2 |
| F 3 | 14 45 32 | 13° 9'45 | 2♂12 | 22°26 | 27°26 | 23°34 | 13°33 | 2°33 | 18° 7 | 16°45 | 9°24 | 22°22 | 20°59 | 16° 1 | 10°29 | F 3 |
| S 4 | 14 49 29 | 14° 8'15 | 17°17 | 24° 6 | 28°30 | 23°D33 | 13°32 | 2°36 | 18° 4 | 16°46 | 9°26 | 22°14 | 20°56 | 16° 8 | 10°33 | S 4 |
| S 5 | 14 53 25 | 15° 6'42 | 2♌2 | 25°47 | 29°35 | 23°34 | 13°31 | 2°39 | 18° 2 | 16°48 | 9°27 | 22° 7 | 20°52 | 16°14 | 10°36 | S 5 |
| M 6 | 14 57 22 | 16° 5'08 | 16°20 | 27°30 | 0♌39 | 23°34 | 13°30 | 2°43 | 17°59 | 16°49 | 9°28 | 22° 2 | 20°49 | 16°21 | 10°40 | M 6 |
| T 7 | 15 1 18 | 17° 3'31 | 0♌10 | 29°15 | 1°43 | 23°36 | 13°29 | 2°47 | 17°57 | 16°50 | 9°30 | 21°58 | 20°46 | 16°28 | 10°44 | T 7 |
| W 8 | 15 5 15 | 18° 1'52 | 13°32 | 1♌2 | 2°46 | 23°38 | 13°28 | 2°50 | 17°54 | 16°51 | 9°31 | 21°D57 | 20°43 | 16°34 | 10°47 | W 8 |
| T 9 | 15 9 11 | 19° 0'11 | 26°28 | 2°50 | 3°49 | 23°41 | 13°26 | 2°54 | 17°52 | 16°53 | 9°32 | 21°57 | 20°40 | 16°41 | 10°51 | T 9 |
| F 10 | 15 13 8 | 19°58'28 | 9♌2 | 4°40 | 4°52 | 23°45 | 13°24 | 2°58 | 17°49 | 16°54 | 9°33 | 21°58 | 20°36 | 16°48 | 10°55 | F 10 |
| S 11 | 15 17 5 | 20°56'43 | 21°20 | 6°32 | 5°55 | 23°50 | 13°22 | 3° 2 | 17°47 | 16°56 | 9°34 | 21°R58 | 20°33 | 16°54 | 10°58 | S 11 |
| S 12 | 15 21 1 | 21°54'56 | 3♌25 | 8°25 | 6°57 | 23°55 | 13°20 | 3° 6 | 17°44 | 16°57 | 9°36 | 21°58 | 20°30 | 17° 1 | 11° 2 | S 12 |
| M13 | 15 24 58 | 22°53'07 | 15°22 | 10°21 | 7°59 | 24° 1 | 13°18 | 3°10 | 17°42 | 16°58 | 9°37 | 21°55 | 20°27 | 17° 8 | 11° 6 | M13 |
| T 14 | 15 28 54 | 23°51'16 | 27°14 | 12°18 | 9° 1 | 24° 7 | 13°15 | 3°14 | 17°39 | 17° 0 | 9°38 | 21°50 | 20°24 | 17°15 | 11° 9 | T 14 |
| W15 | 15 32 51 | 24°49'24 | 9♌5 | 14°17 | 10° 2 | 24°14 | 13°12 | 3°18 | 17°36 | 17° 1 | 9°39 | 21°42 | 20°21 | 17°21 | 11°13 | W15 |
| T 16 | 15 36 47 | 25°47'29 | 20°55 | 16°17 | 11° 3 | 24°22 | 13° 9 | 3°23 | 17°34 | 17° 3 | 9°40 | 21°32 | 20°17 | 17°28 | 11°16 | T 16 |
| F 17 | 15 40 44 | 26°45'33 | 2♌48 | 18°20 | 12° 4 | 24°31 | 13° 6 | 3°27 | 17°31 | 17° 4 | 9°41 | 21°20 | 20°14 | 17°35 | 11°20 | F 17 |
| S 18 | 15 44 40 | 27°43'36 | 14°45 | 20°23 | 13° 4 | 24°40 | 13° 3 | 3°32 | 17°29 | 17° 6 | 9°42 | 21° 8 | 20°11 | 17°41 | 11°24 | S 18 |
| S 19 | 15 48 37 | 28°41'37 | 26°47 | 22°29 | 14° 4 | 24°49 | 13° 0 | 3°37 | 17°26 | 17° 8 | 9°43 | 20°56 | 20° 8 | 17°48 | 11°27 | S 19 |
| M20 | 15 52 34 | 29°39'37 | 8♌55 | 24°35 | 15° 3 | 24°59 | 12°56 | 3°41 | 17°24 | 17° 9 | 9°45 | 20°45 | 20° 5 | 17°55 | 11°31 | M20 |
| T 21 | 15 56 30 | 0♂37'35 | 21°12 | 26°43 | 16° 3 | 25°10 | 12°52 | 3°46 | 17°21 | 17°11 | 9°46 | 20°37 | 20° 2 | 18° 2 | 11°34 | T 21 |
| W22 | 16 0 27 | 1°35'32 | 3♌40 | 28°52 | 17° 1 | 25°22 | 12°48 | 3°51 | 17°19 | 17°13 | 9°47 | 20°31 | 19°58 | 18° 8 | 11°38 | W22 |
| T 23 | 16 4 23 | 2°33'27 | 16°23 | 1♂12 | 2°17 | 25°33 | 12°44 | 3°56 | 17°17 | 17°14 | 9°48 | 20°28 | 19°55 | 18°15 | 11°41 | T 23 |
| F 24 | 16 8 20 | 3°31'21 | 29°23 | 3°13 | 18°57 | 25°46 | 12°40 | 4° 1 | 17°14 | 17°16 | 9°49 | 20°D27 | 19°52 | 18°22 | 11°45 | F 24 |
| S 25 | 16 12 16 | 4°29'14 | 12♌43 | 5°24 | 19°55 | 25°59 | 12°35 | 4° 6 | 17°12 | 17°18 | 9°50 | 20°R27 | 19°49 | 18°28 | 11°48 | S 25 |
| S 26 | 16 16 13 | 5°27'06 | 26°28 | 7°36 | 20°51 | 26°13 | 12°31 | 4°11 | 17° 9 | 17°19 | 9°51 | 20°27 | 19°46 | 18°35 | 11°52 | S 26 |
| M27 | 16 20 9 | 6°24'57 | 10♀38 | 9°47 | 21°48 | 26°27 | 12°26 | 4°16 | 17° 7 | 17°21 | 9°51 | 20°26 | 19°42 | 18°42 | 11°55 | M27 |
| T 28 | 16 24 6 | 7°22'47 | 25°13 | 11°58 | 22°44 | 26°41 | 12°21 | 4°22 | 17° 5 | 17°23 | 9°52 | 20°22 | 19°39 | 18°48 | 11°58 | T 28 |
| W29 | 16 28 3 | 8°20'35 | 10♌8 | 14° 8 | 23°39 | 26°56 | 12°16 | 4°27 | 17° 2 | 17°25 | 9°53 | 20°16 | 19°36 | 18°55 | 12° 2 | W29 |
| T 30 | 16 31 59 | 9°18'22 | 25°18 | 16°18 | 24°34 | 27°12 | 12°11 | 4°33 | 17° 0 | 17°27 | 9°54 | 20° 8 | 19°33 | 19° 2 | 12° 5 | T 30 |
| F 31 | 16 35 56 | 10♂16'09 | 10♂32 | 18♂26 | 25♂28 | 27♂28 | 12♂6 | 4♂38 | 16♌58 | 17♌28 | 9♀55 | 19♌57 | 19♌30 | 19♌9 | 12♌9 | F 31 |

Delta T = 18m01s

JUNE 2565

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|------|--------|-------|-------|--------|-------|-------|-------|------|
| S 1 | 16 39 52 | 11♂13'54 | 25♂39 | 20♂33 | 26♂22 | 27♂44 | 12°R 0 | 4♌44 | 16°R56 | 17♌30 | 9♀56 | 19°R47 | 19♌27 | 19♌15 | 12♌12 | S 1 |
| S 2 | 16 43 49 | 12°11'37 | 10♌30 | 22°38 | 27°15 | 28° 1 | 11♌55 | 4°49 | 16♌53 | 17°32 | 9°57 | 19♌36 | 19°23 | 19°22 | 12°15 | S 2 |
| M 3 | 16 47 45 | 13° 9'19 | 24°56 | 24°42 | 28° 7 | 28°19 | 11°49 | 4°55 | 16°51 | 17°34 | 9°58 | 19°28 | 19°20 | 19°29 | 12°18 | M 3 |
| T 4 | 16 51 42 | 14° 7'00 | 8♌53 | 26°43 | 28°59 | 28°37 | 11°43 | 5° 1 | 16°49 | 17°36 | 9°58 | 19°22 | 19°17 | 19°35 | 12°22 | T 4 |
| W 5 | 16 55 38 | 15° 4'39 | 22°20 | 28°42 | 29°50 | 28°55 | 11°37 | 5° 7 | 16°47 | 17°38 | 9°59 | 19°19 | 19°14 | 19°42 | 12°25 | W 5 |
| T 6 | 16 59 35 | 16° 2'17 | 5♌20 | 0♌39 | 0♌41 | 29°14 | 11°31 | 5°13 | 16°45 | 17°40 | 10° 0 | 19°17 | 19°11 | 19°49 | 12°28 | T 6 |
| F 7 | 17 3 32 | 16°59'53 | 17°56 | 2°33 | 1°31 | 29°33 | 11°24 | 5°19 | 16°43 | 17°42 | 10° 1 | 19°17 | 19° 8 | 19°55 | 12°31 | F 7 |
| S 8 | 17 7 28 | 17°57'27 | 0♌13 | 4°25 | 2°20 | 29°53 | 11°18 | 5°25 | 16°40 | 17°44 | 10° 1 | 19°17 | 19° 4 | 20° 2 | 12°35 | S 8 |
| S 9 | 17 11 25 | 18°55'01 | 12°16 | 6°14 | 3° 8 | 0♌13 | 11°12 | 5°31 | 16°38 | 17°46 | 10° 2 | 19°16 | 19° 1 | 20° 9 | 12°38 | S 9 |
| M10 | 17 15 21 | 19°52'33 | 24°11 | 8° 1 | 3°55 | 0°33 | 11° 5 | 5°37 | 16°36 | 17°48 | 10° 3 | 19°12 | 18°58 | 20°16 | 12°41 | M10 |
| T 11 | 17 19 18 | 20°50'04 | 6♌1 | 9°45 | 4°42 | 0°54 | 10°58 | 5°43 | 16°34 | 17°50 | 10° 3 | 19° 7 | 18°55 | 20°22 | 12°44 | T 11 |
| W12 | 17 23 14 | 21°47'33 | 17°51 | 11°26 | 5°28 | 1°15 | 10°52 | 5°50 | 16°33 | 17°52 | 10° 4 | 18°58 | 18°52 | 20°29 | 12°47 | W12 |
| T 13 | 17 27 11 | 22°45'02 | 29°44 | 13° 4 | 6°13 | 1°37 | 10°45 | 5°56 | 16°31 | 17°54 | 10° 4 | 18°47 | 18°48 | 20°36 | 12°50 | T 13 |
| F 14 | 17 31 7 | 23°42'29 | 11♌41 | 14°39 | 6°57 | 1°59 | 10°38 | 6° 2 | 16°29 | 17°56 | 10° 5 | 18°34 | 18°45 | 20°42 | 12°53 | F 14 |
| S 15 | 17 35 4 | 24°39'56 | 23°45 | 16°12 | 7°40 | 2°21 | 10°31 | 6° 9 | 16°27 | 17°58 | 10° 6 | 18°20 | 18°42 | 20°49 | 12°56 | S 15 |
| S 16 | 17 39 1 | 25°37'21 | 5♌57 | 17°42 | 8°21 | 2°44 | 10°24 | 6°15 | 16°25 | 18° 0 | 10° 6 | 18° 7 | 18°39 | 20°56 | 12°59 | S 16 |
| M17 | 17 42 57 | 26°34'46 | 18°17 | 19° 8 | 9° 2 | 3° 7 | 10°16 | 6°22 | 16°23 | 18° 2 | 10° 7 | 17°55 | 18°36 | 21° 3 | 13° 2 | M17 |
| T 18 | 17 46 54 | 27°32'10 | 0♌46 | 20°32 | 9°42 | 3°30 | 10° 9 | 6°28 | 16°22 | 18° 4 | 10° 7 | 17°46 | 18°33 | 21° 9 | 13° 5 | T 18 |
| W19 | 17 50 50 | 28°29'34 | 13°25 | 21°53 | 10°21 | 3°53 | 10° 2 | 6°35 | 16°20 | 18° 6 | 10° 8 | 17°39 | 18°29 | 21°16 | 13° 7 | W19 |
| T 20 | 17 54 47 | 29°26'56 | 26°17 | 23°11 | 10°58 | 4°17 | 9°55 | 6°42 | 16°18 | 18° 9 | 10° 8 | 17°36 | 18°26 | 21°23 | 13°10 | T 20 |
| F 21 | 17 58 43 | 0♌24'18 | 9♌23 | 24°25 | 11°35 | 4°42 | 9°47 | 6°48 | 16°17 | 18°11 | 10° 9 | 17°34 | 18°23 | 21°29 | 13°13 | F 21 |
| S 22 | 18 2 40 | 1°21'40 | 22°45 | 25°37 | 12°10 | 5° 6 | 9°40 | 6°55 | 16°15 | 18°13 | 10° 9 | 17°D34 | 18°20 | 21°36 | 13°16 | S 22 |
| S 23 | 18 6 37 | 2°19'01 | 6♀26 | 26°46 | 12°44 | 5°31 | 9°32 | 7° 2 | 16°14 | 18°15 | 10° 9 | 17°R34 | 18°17 | 21°43 | 13°18 | S 23 |
| M24 | 18 10 33 | 3°16'22 | 20°26 | 27°51 | 13°16 | 5°56 | 9°25 | 7° 9 | 16°12 | 18°17 | 10°10 | 17°33 | 18°14 | 21°49 | 13°21 | M24 |
| T 25 | 18 14 30 | 4°13'43 | 4♌47 | 28°53 | 13°47 | 6°22 | 9°17 | 7°16 | 16°11 | 18°19 | 10°10 | 17°30 | 18°10 | 21°56 | 13°24 | T 25 |
| W26 | 18 18 26 | 5°11'03 | 19°25 | 29°51 | 14°17 | 6°47 | 9° 9 | 7°23 | 16° 9 | 18°22 | 10°10 | 17°25 | 18° 7 | 22° 3 | 13°26 | W26 |
| T 27 | 18 22 23 | 6° 8'23 | 4♂16 | 0♌47 | 14°45 | 7°13 | 9° 2 | 7°30 | 16° 8 | 18°24 | 10°11 | 17°17 | 18° 4 | 22°10 | 13°29 | T 27 |
| F 28 | 18 26 19 | 7° 5'43 | 19°13 | 1°38 | 15°11 | 7°40 | 8°54 | 7°37 | 16° 7 | 18°26 | 10°11 | 17° 8 | 18° 1 | 22°16 | 13°31 | F 28 |
| S 29 | 18 30 16 | 8° 3'02 | 4♌7 | 2°26 | 15°36 | 8° 6 | 8°46 | 7°44 | 16° 6 | 18°28 | 10°11 | 16°57 | 17°58 | 22°23 | 13°34 | S 29 |
| S 30 | 18 34 12 | 9♌0'21 | 18♌48 | 3♌10 | 16♌0 | 8♌33 | 8♌39 | 7♌51 | 16♌4 | 18♌30 | 10♀11 | 16♌48 | 17♌55 | 22♌30 | 13♌36 | S 30 |

Delta T = 18m01s

ASTRODIENST EPHEMERIS for the year 2565
geocentric

JULY 2565

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| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|------|
| M 1 | 18 38 9 | 9♄57'39 | 3♁9 | 3♁51 | 16♁21 | 9♁0 | 8°R31 | 7♁58 | 16°R 3 | 18♄33 | 10♁12 | 16°R40 | 17♁51 | 22♁36 | 13♁39 | M 1 |
| T 2 | 18 42 6 | 10°54'57 | 17° 5 | 4°27 | 16°41 | 9°28 | 8♄23 | 8° 5 | 16♁ 2 | 18°35 | 10°12 | 16♁34 | 17°48 | 22°43 | 13°41 | T 2 |
| W 3 | 18 46 2 | 11°52'14 | 0♁34 | 4°59 | 16°59 | 9°55 | 8°16 | 8°13 | 16° 1 | 18°37 | 10°12 | 16°31 | 17°45 | 22°50 | 13°43 | W 3 |
| T 4 | 18 49 59 | 12°49'31 | 13°36 | 5°27 | 17°15 | 10°23 | 8° 8 | 8°20 | 16° 0 | 18°39 | 10°12 | 16°D30 | 17°42 | 22°57 | 13°45 | T 4 |
| F 5 | 18 53 55 | 13°46'46 | 26°15 | 5°51 | 17°29 | 10°51 | 8° 0 | 8°27 | 15°59 | 18°41 | 10°12 | 16°30 | 17°39 | 23° 3 | 13°48 | F 5 |
| S 6 | 18 57 52 | 14°44'02 | 8♁35 | 6°10 | 17°41 | 11°20 | 7°53 | 8°34 | 15°58 | 18°44 | 10°12 | 16°31 | 17°35 | 23°10 | 13°50 | S 6 |
| S 7 | 19 1 48 | 15°41'16 | 20°40 | 6°25 | 17°51 | 11°48 | 7°45 | 8°42 | 15°57 | 18°46 | 10°12 | 16°R31 | 17°32 | 23°17 | 13°52 | S 7 |
| M 8 | 19 5 45 | 16°38'30 | 2♁35 | 6°35 | 17°58 | 12°17 | 7°38 | 8°49 | 15°56 | 18°48 | 10°12 | 16°29 | 17°29 | 23°23 | 13°54 | M 8 |
| T 9 | 19 9 41 | 17°35'44 | 14°27 | 6°41 | 18° 4 | 12°46 | 7°30 | 8°57 | 15°55 | 18°50 | 10°13 | 16°26 | 17°26 | 23°30 | 13°56 | T 9 |
| W10 | 19 13 38 | 18°32'58 | 26°19 | 6°R42 | 18° 7 | 13°16 | 7°23 | 9° 4 | 15°55 | 18°53 | 10°R13 | 16°20 | 17°23 | 23°37 | 13°58 | W10 |
| T 11 | 19 17 35 | 19°30'11 | 8♁14 | 6°38 | 18°R 8 | 13°45 | 7°15 | 9°11 | 15°54 | 18°55 | 10°13 | 16°12 | 17°20 | 23°44 | 14° 0 | T 11 |
| F 12 | 19 21 31 | 20°27'24 | 20°17 | 6°30 | 18° 6 | 14°15 | 7° 8 | 9°19 | 15°53 | 18°57 | 10°12 | 16° 3 | 17°16 | 23°50 | 14° 2 | F 12 |
| S 13 | 19 25 28 | 21°24'36 | 2♄30 | 6°17 | 18° 3 | 14°45 | 7° 1 | 9°26 | 15°53 | 18°59 | 10°12 | 15°53 | 17°13 | 23°57 | 14° 4 | S 13 |
| S 14 | 19 29 24 | 22°21'49 | 14°53 | 6° 0 | 17°56 | 15°15 | 6°54 | 9°34 | 15°52 | 19° 2 | 10°12 | 15°44 | 17°10 | 24° 4 | 14° 6 | S 14 |
| M15 | 19 33 21 | 23°19'02 | 27°27 | 5°39 | 17°48 | 15°46 | 6°46 | 9°41 | 15°52 | 19° 4 | 10°12 | 15°35 | 17° 7 | 24°10 | 14° 7 | M15 |
| T 16 | 19 37 17 | 24°16'14 | 10♁13 | 5°14 | 17°37 | 16°16 | 6°39 | 9°49 | 15°51 | 19° 6 | 10°12 | 15°28 | 17° 4 | 24°17 | 14° 9 | T 16 |
| W17 | 19 41 14 | 25°13'27 | 23°12 | 4°45 | 17°23 | 16°47 | 6°33 | 9°57 | 15°51 | 19° 8 | 10°12 | 15°24 | 17° 1 | 24°24 | 14°11 | W17 |
| T 18 | 19 45 10 | 26°10'39 | 6♁13 | 4°13 | 17° 8 | 17°18 | 6°26 | 10° 4 | 15°51 | 19°10 | 10°12 | 15°22 | 16°57 | 24°31 | 14°13 | T 18 |
| F 19 | 19 49 7 | 27° 7'52 | 19°43 | 3°39 | 16°50 | 17°49 | 6°19 | 10°12 | 15°50 | 19°13 | 10°12 | 15°D22 | 16°54 | 24°37 | 14°14 | F 19 |
| S 20 | 19 53 4 | 28° 5'06 | 3♁17 | 3° 2 | 16°29 | 18°21 | 6°12 | 10°19 | 15°50 | 19°15 | 10°11 | 15°22 | 16°51 | 24°44 | 14°16 | S 20 |
| S 21 | 19 57 0 | 29° 2'20 | 17° 3 | 2°24 | 16° 7 | 18°52 | 6° 6 | 10°27 | 15°50 | 19°17 | 10°11 | 15°24 | 16°48 | 24°51 | 14°17 | S 21 |
| M22 | 20 0 57 | 29°59'34 | 1♁ 3 | 1°45 | 15°42 | 19°24 | 5°59 | 10°35 | 15°50 | 19°19 | 10°11 | 15°R24 | 16°45 | 24°57 | 14°19 | M22 |
| T 23 | 20 4 53 | 0♁56'49 | 15°15 | 1° 6 | 15°15 | 19°56 | 5°53 | 10°42 | 15°50 | 19°21 | 10°11 | 15°23 | 16°41 | 25° 4 | 14°20 | T 23 |
| W24 | 20 8 50 | 1°54'05 | 29°37 | 0°27 | 14°47 | 20°28 | 5°47 | 10°50 | 15°D50 | 19°24 | 10°10 | 15°20 | 16°38 | 25°11 | 14°21 | W24 |
| T 25 | 20 12 46 | 2°51'21 | 14♁ 7 | 29♄49 | 14°16 | 21° 0 | 5°40 | 10°58 | 15°50 | 19°26 | 10°10 | 15°16 | 16°35 | 25°18 | 14°23 | T 25 |
| F 26 | 20 16 43 | 3°48'38 | 28°39 | 29°13 | 13°45 | 21°33 | 5°34 | 11° 6 | 15°50 | 19°28 | 10°10 | 15°10 | 16°32 | 25°24 | 14°24 | F 26 |
| S 27 | 20 20 40 | 4°45'55 | 13♄ 7 | 28°39 | 13°11 | 22° 5 | 5°29 | 11°13 | 15°50 | 19°30 | 10° 9 | 15° 4 | 16°29 | 25°31 | 14°25 | S 27 |
| S 28 | 20 24 36 | 5°43'13 | 27°26 | 28° 9 | 12°37 | 22°38 | 5°23 | 11°21 | 15°50 | 19°32 | 10° 9 | 14°58 | 16°26 | 25°38 | 14°26 | S 28 |
| M29 | 20 28 33 | 6°40'31 | 11♁30 | 27°42 | 12° 1 | 23°11 | 5°17 | 11°29 | 15°50 | 19°35 | 10° 8 | 14°54 | 16°22 | 25°44 | 14°27 | M29 |
| T 30 | 20 32 29 | 7°37'50 | 25°13 | 27°19 | 11°25 | 23°45 | 5°12 | 11°37 | 15°51 | 19°37 | 10° 8 | 14°50 | 16°19 | 25°51 | 14°28 | T 30 |
| W31 | 20 36 26 | 8♁35'09 | 8♁35 | 27♄ 1 | 10♁48 | 24♁18 | 5♄ 6 | 11♁44 | 15♁51 | 19♄39 | 10♁ 8 | 14°D49 | 16♁16 | 25♁58 | 14♁29 | W31 |

Delta T = 18m01s

AUGUST 2565

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| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|-------|-------|-------|--------|--------|-------|-------|--------|------|
| T 1 | 20 40 22 | 9♁32'28 | 21♁34 | 26°R48 | 10°R11 | 24♁51 | 5°R 1 | 11♁52 | 15♁51 | 19♄41 | 10°R 7 | 14♁49 | 16♁13 | 26♁ 5 | 14♁30 | T 1 |
| F 2 | 20 44 19 | 10°29'48 | 4♁13 | 26♄40 | 9♁33 | 25°25 | 4♄56 | 12° 0 | 15°52 | 19°43 | 10°Y 7 | 14°50 | 16°10 | 26°11 | 14°31 | F 2 |
| S 3 | 20 48 15 | 11°27'08 | 16♁34 | 26°D37 | 8°56 | 25°59 | 4°51 | 12° 8 | 15°52 | 19°45 | 10° 6 | 14°52 | 16° 6 | 26°18 | 14°32 | S 3 |
| S 4 | 20 52 12 | 12°24'29 | 28°41 | 26°40 | 8°19 | 26°33 | 4°46 | 12°15 | 15°53 | 19°47 | 10° 6 | 14°53 | 16° 3 | 26°25 | 14°33 | S 4 |
| M 5 | 20 56 8 | 13°21'50 | 10♁38 | 26°50 | 7°42 | 27° 7 | 4°42 | 12°23 | 15°54 | 19°49 | 10° 5 | 14°R54 | 16° 0 | 26°31 | 14°33 | M 5 |
| T 6 | 21 0 5 | 14°19'11 | 22°31 | 27° 5 | 7° 7 | 27°42 | 4°37 | 12°31 | 15°54 | 19°51 | 10° 4 | 14°54 | 15°57 | 26°38 | 14°34 | T 6 |
| W 7 | 21 4 2 | 15°16'33 | 4♁25 | 27°27 | 6°32 | 28°16 | 4°33 | 12°39 | 15°55 | 19°54 | 10° 4 | 14°52 | 15°54 | 26°45 | 14°35 | W 7 |
| T 8 | 21 7 58 | 16°13'55 | 16°23 | 27°54 | 5°59 | 28°51 | 4°29 | 12°46 | 15°56 | 19°56 | 10° 3 | 14°49 | 15°51 | 26°52 | 14°35 | T 8 |
| F 9 | 21 11 55 | 17°11'18 | 28°30 | 28°28 | 5°27 | 29°25 | 4°25 | 12°54 | 15°57 | 19°58 | 10° 3 | 14°45 | 15°47 | 26°58 | 14°36 | F 9 |
| S 10 | 21 15 51 | 18° 8'42 | 10♄48 | 29° 8 | 4°57 | 0♁ 0 | 4°21 | 13° 2 | 15°57 | 20° 0 | 10° 2 | 14°41 | 15°44 | 27° 5 | 14°36 | S 10 |
| S 11 | 21 19 48 | 19° 6'06 | 23°21 | 29°54 | 4°28 | 0°35 | 4°18 | 13°10 | 15°58 | 20° 2 | 10° 1 | 14°37 | 15°41 | 27°12 | 14°36 | S 11 |
| M12 | 21 23 44 | 20° 3'31 | 6♁10 | 0♁46 | 4° 2 | 1°11 | 4°14 | 13°17 | 15°59 | 20° 4 | 10° 1 | 14°33 | 15°38 | 27°18 | 14°37 | M12 |
| T 13 | 21 27 41 | 21° 0'56 | 19°14 | 1°44 | 3°37 | 1°46 | 4°11 | 13°25 | 16° 0 | 20° 6 | 10° 0 | 14°31 | 15°35 | 27°25 | 14°37 | T 13 |
| W14 | 21 31 38 | 21°58'23 | 2♁34 | 2°48 | 3°15 | 2°22 | 4° 8 | 13°33 | 16° 1 | 20° 8 | 9°59 | 14°29 | 15°32 | 27°32 | 14°37 | W14 |
| T 15 | 21 35 34 | 22°55'50 | 16° 8 | 3°58 | 2°54 | 2°57 | 4° 5 | 13°41 | 16° 3 | 20°10 | 9°59 | 14°D29 | 15°28 | 27°39 | 14°37 | T 15 |
| F 16 | 21 39 31 | 23°53'19 | 29°53 | 5°13 | 2°36 | 3°33 | 4° 2 | 13°48 | 16° 4 | 20°11 | 9°58 | 14°29 | 15°25 | 27°45 | 14°38 | F 16 |
| S 17 | 21 43 27 | 24°50'49 | 13♁49 | 6°33 | 2°21 | 4° 9 | 4° 0 | 13°56 | 16° 5 | 20°13 | 9°57 | 14°30 | 15°22 | 27°52 | 14°38 | S 17 |
| S 18 | 21 47 24 | 25°48'20 | 27°53 | 7°59 | 2° 8 | 4°45 | 3°57 | 14° 4 | 16° 6 | 20°15 | 9°56 | 14°32 | 15°19 | 27°59 | 14°R38 | S 18 |
| M19 | 21 51 20 | 26°45'52 | 12♁ 2 | 9°29 | 1°57 | 5°21 | 3°55 | 14°11 | 16° 8 | 20°17 | 9°55 | 14°33 | 15°16 | 28° 5 | 14°38 | M19 |
| T 20 | 21 55 17 | 27°43'26 | 26°15 | 11° 4 | 1°48 | 5°57 | 3°53 | 14°19 | 16° 9 | 20°19 | 9°55 | 14°R33 | 15°12 | 28°12 | 14°37 | T 20 |
| W21 | 21 59 13 | 28°41'01 | 10♁29 | 12°43 | 1°42 | 6°34 | 3°51 | 14°26 | 16°10 | 20°21 | 9°54 | 14°33 | 15° 9 | 28°19 | 14°37 | W21 |
| T 22 | 22 3 10 | 29°38'38 | 24°42 | 14°26 | 1°39 | 7°10 | 3°50 | 14°34 | 16°12 | 20°23 | 9°53 | 14°32 | 15° 6 | 28°26 | 14°37 | T 22 |
| F 23 | 22 7 7 | 0♁36'16 | 8♄50 | 16°12 | 1°D38 | 7°47 | 3°48 | 14°42 | 16°13 | 20°25 | 9°52 | 14°30 | 15° 3 | 28°32 | 14°37 | F 23 |
| S 24 | 22 11 3 | 1°33'56 | 22°51 | 18° 2 | 1°39 | 8°24 | 3°47 | 14°49 | 16°15 | 20°26 | 9°51 | 14°29 | 15° 0 | 28°39 | 14°37 | S 24 |
| S 25 | 22 15 0 | 2°31'37 | 6♁42 | 19°54 | 1°42 | 9° 1 | 3°46 | 14°57 | 16°16 | 20°28 | 9°50 | 14°27 | 14°57 | 28°46 | 14°36 | S 25 |
| M26 | 22 18 56 | 3°29'19 | 20°20 | 21°49 | 1°48 | 9°38 | 3°45 | 15° 4 | 16°18 | 20°30 | 9°49 | 14°26 | 14°53 | 28°52 | 14°36 | M26 |
| T 27 | 22 22 53 | 4°27'03 | 3♁43 | 23°45 | 1°56 | 10°15 | 3°44 | 15°12 | 16°20 | 20°32 | 9°48 | 14°25 | 14°50 | 28°59 | 14°35 | T 27 |
| W28 | 22 26 49 | 5°24'48 | 16°49 | 25°43 | 2° 6 | 10°53 | 3°44 | 15°19 | 16°22 | 20°33 | 9°48 | 14°D25 | 14°47 | 29° 6 | 14°35 | W28 |
| T 29 | 22 30 46 | 6°22'34 | 29°38 | 27°42 | 2°18 | 11°30 | 3°43 | 15°27 | 16°23 | 20°35 | 9°47 | 14°25 | 14°44 | 29°13 | 14°34 | T 29 |
| F 30 | 22 34 42 | 7°20'21 | 12♁11 | 29°42 | 2°32 | 12° 8 | 3°D43 | 15°34 | 16°25 | 20°37 | 9°46 | 14°26 | 14°41 | 29°19 | 14°33 | F 30 |
| S 31 | 22 38 39 | 8♁18'09 | 24♁29 | 1♁42 | 2♁48 | 12♁46 | 3♄43 | 15♁41 | 16♁27 | 20♄38 | 9♁45 | 14°H27 | 14♁38 | 29♁26 | 14♁33 | S 31 |

Delta T = 18m02s

ASTRODIENST EPHEMERIS for the year 2565

geocentric

SEPTEMBER 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|--------|-------|-------|--------|------|-----|
| S 1 | 22 42 35 | 9♎15'59 | 6♎35 | 3♎42 | 3♏ 6 | 13♎23 | 3♏44 | 15♏49 | 16♎29 | 20♏40 | 9°R44 | 14♎27 | 14♎34 | 29♎33 | 14°R32 | S 1 | |
| M 2 | 22 46 32 | 10°13'50 | 18°33 | 5°43 | 3°26 | 14° 1 | 3°44 | 15°56 | 16°31 | 20°41 | 9°Y43 | 14°28 | 14°31 | 29°39 | 14♎31 | M 2 | |
| T 3 | 22 50 29 | 11°11'42 | 0♏26 | 7°43 | 3°47 | 14°40 | 3°45 | 16° 3 | 16°33 | 20°43 | 9°42 | 14°28 | 14°28 | 29°46 | 14°30 | T 3 | |
| W 4 | 22 54 25 | 12° 9'36 | 12°20 | 9°42 | 4°11 | 15°18 | 3°45 | 16°11 | 16°35 | 20°45 | 9°41 | 14°R28 | 14°25 | 29°53 | 14°29 | W 4 | |
| T 5 | 22 58 22 | 13° 7'31 | 24°18 | 11°41 | 4°36 | 15°56 | 3°46 | 16°18 | 16°37 | 20°46 | 9°40 | 14°28 | 14°22 | 29°59 | 14°28 | T 5 | |
| F 6 | 23 2 18 | 14° 5'27 | 6♏25 | 13°39 | 5° 3 | 16°35 | 3°48 | 16°25 | 16°40 | 20°48 | 9°38 | 14°D28 | 14°18 | 0♏ 6 | 14°27 | F 6 | |
| S 7 | 23 6 15 | 15° 3'24 | 18°46 | 15°36 | 5°31 | 17°13 | 3°49 | 16°32 | 16°42 | 20°49 | 9°37 | 14°28 | 14°15 | 0°13 | 14°26 | S 7 | |
| S 8 | 23 10 11 | 16° 1'22 | 1♏23 | 17°32 | 6° 1 | 17°52 | 3°51 | 16°39 | 16°44 | 20°51 | 9°36 | 14°28 | 14°12 | 0°20 | 14°25 | S 8 | |
| M 9 | 23 14 8 | 16°59'22 | 14°20 | 19°27 | 6°32 | 18°31 | 3°52 | 16°47 | 16°46 | 20°52 | 9°35 | 14°28 | 14° 9 | 0°27 | 14°24 | M 9 | |
| T 10 | 23 18 4 | 17°57'23 | 27°38 | 21°21 | 7° 4 | 19° 9 | 3°54 | 16°54 | 16°49 | 20°53 | 9°34 | 14°29 | 14° 6 | 0°33 | 14°23 | T 10 | |
| W11 | 23 22 1 | 18°55'26 | 11♎17 | 23°14 | 7°38 | 19°48 | 3°56 | 17° 1 | 16°51 | 20°55 | 9°33 | 14°R29 | 14° 3 | 0°40 | 14°22 | W11 | |
| T 12 | 23 25 58 | 19°53'30 | 25°14 | 25° 5 | 8°14 | 20°28 | 3°59 | 17° 8 | 16°53 | 20°56 | 9°32 | 14°29 | 13°59 | 0°47 | 14°20 | T 12 | |
| F 13 | 23 29 54 | 20°51'36 | 9°Y27 | 26°56 | 8°50 | 21° 7 | 4° 1 | 17°14 | 16°56 | 20°57 | 9°31 | 14°28 | 13°56 | 0°53 | 14°19 | F 13 | |
| S 14 | 23 33 51 | 21°49'44 | 23°51 | 28°45 | 9°28 | 21°46 | 4° 4 | 17°21 | 16°58 | 20°59 | 9°30 | 14°28 | 13°53 | 1° 0 | 14°17 | S 14 | |
| S 15 | 23 37 47 | 22°47'54 | 8♏20 | 0♏33 | 10° 7 | 22°25 | 4° 7 | 17°28 | 17° 1 | 21° 0 | 9°29 | 14°27 | 13°50 | 1° 7 | 14°16 | S 15 | |
| M16 | 23 41 44 | 23°46'05 | 22°50 | 2°20 | 10°47 | 23° 5 | 4°10 | 17°35 | 17° 4 | 21° 1 | 9°27 | 14°26 | 13°47 | 1°14 | 14°14 | M16 | |
| T 17 | 23 45 40 | 24°44'19 | 7♎14 | 4° 5 | 11°28 | 23°45 | 4°13 | 17°42 | 17° 6 | 21° 2 | 9°26 | 14°25 | 13°44 | 1°20 | 14°13 | T 17 | |
| W18 | 23 49 37 | 25°42'35 | 21°31 | 5°50 | 12°11 | 24°24 | 4°16 | 17°48 | 17° 9 | 21° 4 | 9°25 | 14°D25 | 13°40 | 1°27 | 14°11 | W18 | |
| T 19 | 23 53 33 | 26°40'52 | 5♏36 | 7°33 | 12°54 | 25° 4 | 4°20 | 17°55 | 17°11 | 21° 5 | 9°24 | 14°25 | 13°37 | 1°34 | 14°10 | T 19 | |
| F 20 | 23 57 30 | 27°39'12 | 19°29 | 9°15 | 13°38 | 25°44 | 4°23 | 18° 2 | 17°14 | 21° 6 | 9°23 | 14°25 | 13°34 | 1°40 | 14° 8 | F 20 | |
| S 21 | 0 1 27 | 28°37'34 | 3♏ 8 | 10°56 | 14°23 | 26°24 | 4°27 | 18° 8 | 17°17 | 21° 7 | 9°22 | 14°26 | 13°31 | 1°47 | 14° 6 | S 21 | |
| S 22 | 0 5 23 | 29°35'58 | 16°34 | 12°36 | 15°10 | 27° 4 | 4°31 | 18°15 | 17°20 | 21° 8 | 9°21 | 14°27 | 13°28 | 1°54 | 14° 4 | S 22 | |
| M23 | 0 9 20 | 0♏34'24 | 29°46 | 14°15 | 15°57 | 27°45 | 4°36 | 18°21 | 17°23 | 21° 9 | 9°19 | 14°28 | 13°24 | 2° 1 | 14° 3 | M23 | |
| T 24 | 0 13 16 | 1°32'52 | 12♎45 | 15°53 | 16°44 | 28°25 | 4°40 | 18°28 | 17°25 | 21°10 | 9°18 | 14°R29 | 13°21 | 2° 7 | 14° 1 | T 24 | |
| W25 | 0 17 13 | 2°31'22 | 25°32 | 17°29 | 17°33 | 29° 6 | 4°44 | 18°34 | 17°28 | 21°11 | 9°17 | 14°29 | 13°18 | 2°14 | 13°59 | W25 | |
| T 26 | 0 21 9 | 3°29'53 | 8♏ 5 | 19° 5 | 18°22 | 29°46 | 4°49 | 18°40 | 17°31 | 21°12 | 9°16 | 14°27 | 13°15 | 2°21 | 13°57 | T 26 | |
| F 27 | 0 25 6 | 4°28'27 | 20°27 | 20°40 | 19°13 | 0♏27 | 4°54 | 18°46 | 17°34 | 21°13 | 9°15 | 14°25 | 13°12 | 2°27 | 13°55 | F 27 | |
| S 28 | 0 29 2 | 5°27'02 | 2♎39 | 22°13 | 20° 4 | 1° 8 | 4°59 | 18°53 | 17°37 | 21°14 | 9°13 | 14°22 | 13° 9 | 2°34 | 13°53 | S 28 | |
| S 29 | 0 32 59 | 6°25'39 | 14°41 | 23°46 | 20°55 | 1°48 | 5° 4 | 18°59 | 17°40 | 21°15 | 9°12 | 14°18 | 13° 5 | 2°41 | 13°51 | S 29 | |
| M30 | 0 36 56 | 7♏24'18 | 26♎37 | 25♏17 | 21♏47 | 2♏29 | 5♏10 | 19♏ 5 | 17♎43 | 21♏15 | 9°Y11 | 14♎15 | 13♎ 2 | 2♏48 | 13♏49 | M30 | |

Delta T = 18m02s

OCTOBER 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|--------|-------|--------|-------|------|--------|------|-----|
| T 1 | 0 40 52 | 8♏22'59 | 8♏29 | 26♏48 | 22♏40 | 3♏10 | 5♏15 | 19♏11 | 17♎46 | 21♏16 | 9°R10 | 14°R11 | 12♎59 | 2♏54 | 13°R46 | T 1 | |
| W 2 | 0 44 49 | 9°21'41 | 20°21 | 28°18 | 23°34 | 3°52 | 5°21 | 19°17 | 17°50 | 21°17 | 9°Y 9 | 14♎ 9 | 12°56 | 3° 1 | 13♏44 | W 2 | |
| T 3 | 0 48 45 | 10°20'25 | 2♏17 | 29°46 | 24°28 | 4°33 | 5°27 | 19°23 | 17°53 | 21°18 | 9° 7 | 14° 7 | 12°53 | 3° 8 | 13°42 | T 3 | |
| F 4 | 0 52 42 | 11°19'11 | 14°22 | 1♎14 | 25°23 | 5°14 | 5°33 | 19°28 | 17°56 | 21°18 | 9° 6 | 14°D 7 | 12°49 | 3°15 | 13°40 | F 4 | |
| S 5 | 0 56 38 | 12°17'59 | 26°39 | 2°40 | 26°18 | 5°56 | 5°39 | 19°34 | 17°59 | 21°19 | 9° 5 | 14° 8 | 12°46 | 3°21 | 13°37 | S 5 | |
| S 6 | 1 0 35 | 13°16'48 | 9♏15 | 4° 6 | 27°14 | 6°37 | 5°46 | 19°40 | 18° 2 | 21°20 | 9° 4 | 14° 9 | 12°43 | 3°28 | 13°35 | S 6 | |
| M 7 | 1 4 31 | 14°15'39 | 22°12 | 5°30 | 28°10 | 7°19 | 5°52 | 19°45 | 18° 6 | 21°20 | 9° 3 | 14°11 | 12°40 | 3°35 | 13°33 | M 7 | |
| T 8 | 1 8 28 | 15°14'31 | 5♎34 | 6°53 | 29° 7 | 8° 1 | 5°59 | 19°51 | 18° 9 | 21°21 | 9° 1 | 14°12 | 12°37 | 3°41 | 13°30 | T 8 | |
| W 9 | 1 12 25 | 16°13'25 | 19°23 | 8°16 | 0♎ 5 | 8°42 | 6° 6 | 19°56 | 18°12 | 21°21 | 9° 0 | 14°R12 | 12°34 | 3°48 | 13°28 | W 9 | |
| T 10 | 1 16 21 | 17°12'21 | 3°Y36 | 9°37 | 1° 3 | 9°24 | 6°13 | 20° 2 | 18°16 | 21°22 | 8°59 | 14°11 | 12°30 | 3°55 | 13°25 | T 10 | |
| F 11 | 1 20 18 | 18°11'19 | 18°10 | 10°57 | 2° 1 | 10° 6 | 6°20 | 20° 7 | 18°19 | 21°22 | 8°58 | 14° 8 | 12°27 | 4° 2 | 13°23 | F 11 | |
| S 12 | 1 24 14 | 19°10'20 | 3♏ 0 | 12°15 | 3° 0 | 10°48 | 6°27 | 20°12 | 18°22 | 21°23 | 8°57 | 14° 4 | 12°24 | 4° 8 | 13°20 | S 12 | |
| S 13 | 1 28 11 | 20° 9'22 | 17°57 | 13°33 | 3°59 | 11°31 | 6°34 | 20°17 | 18°26 | 21°23 | 8°56 | 13°59 | 12°21 | 4°15 | 13°18 | S 13 | |
| M14 | 1 32 7 | 21° 8'26 | 2♎52 | 14°49 | 4°59 | 12°13 | 6°42 | 20°22 | 18°29 | 21°23 | 8°54 | 13°53 | 12°18 | 4°22 | 13°15 | M14 | |
| T 15 | 1 36 4 | 22° 7'33 | 17°37 | 16° 3 | 5°59 | 12°55 | 6°50 | 20°27 | 18°33 | 21°24 | 8°53 | 13°48 | 12°15 | 4°28 | 13°13 | T 15 | |
| W16 | 1 40 0 | 23° 6'42 | 2♏ 7 | 17°16 | 7° 0 | 13°37 | 6°57 | 20°32 | 18°36 | 21°24 | 8°52 | 13°45 | 12°11 | 4°35 | 13°10 | W16 | |
| T 17 | 1 43 57 | 24° 5'53 | 16°16 | 18°27 | 8° 1 | 14°20 | 7° 5 | 20°37 | 18°40 | 21°24 | 8°51 | 13°43 | 12° 8 | 4°42 | 13° 7 | T 17 | |
| F 18 | 1 47 54 | 25° 5'07 | 0♏ 4 | 19°37 | 9° 3 | 15° 3 | 7°13 | 20°42 | 18°43 | 21°25 | 8°50 | 13°D43 | 12° 5 | 4°49 | 13° 5 | F 18 | |
| S 19 | 1 51 50 | 26° 4'23 | 13°32 | 20°45 | 10° 4 | 15°45 | 7°22 | 20°47 | 18°47 | 21°25 | 8°49 | 13°44 | 12° 2 | 4°55 | 13° 2 | S 19 | |
| S 20 | 1 55 47 | 27° 3'41 | 26°41 | 21°50 | 11° 7 | 16°28 | 7°30 | 20°51 | 18°50 | 21°25 | 8°48 | 13°45 | 11°59 | 5° 2 | 12°59 | S 20 | |
| M21 | 1 59 43 | 28° 3'01 | 9♎34 | 22°54 | 12° 9 | 17°11 | 7°38 | 20°56 | 18°54 | 21°25 | 8°46 | 13°R46 | 11°55 | 5° 9 | 12°57 | M21 | |
| T 22 | 2 3 40 | 29° 2'24 | 22°14 | 23°55 | 13°12 | 17°54 | 7°47 | 21° 0 | 18°57 | 21°25 | 8°45 | 13°46 | 11°52 | 5°16 | 12°54 | T 22 | |
| W23 | 2 7 36 | 0♎ 1'49 | 4♏41 | 24°53 | 14°15 | 18°37 | 7°56 | 21° 4 | 19° 1 | 21°25 | 8°44 | 13°44 | 11°49 | 5°22 | 12°51 | W23 | |
| T 24 | 2 11 33 | 1° 1'16 | 16°59 | 25°48 | 15°19 | 19°20 | 8° 5 | 21° 9 | 19° 5 | 21°R25 | 8°43 | 13°39 | 11°46 | 5°29 | 12°48 | T 24 | |
| F 25 | 2 15 29 | 2° 0'45 | 29° 9 | 26°40 | 16°23 | 20° 3 | 8°14 | 21°13 | 19° 8 | 21°25 | 8°42 | 13°33 | 11°43 | 5°36 | 12°46 | F 25 | |
| S 26 | 2 19 26 | 3° 0'16 | 11♎12 | 27°29 | 17°27 | 20°46 | 8°23 | 21°17 | 19°12 | 21°25 | 8°41 | 13°24 | 11°40 | 5°42 | 12°43 | S 26 | |
| S 27 | 2 23 22 | 3°59'49 | 23°10 | 28°14 | 18°31 | 21°30 | 8°32 | 21°21 | 19°16 | 21°25 | 8°40 | 13°14 | 11°36 | 5°49 | 12°40 | S 27 | |
| M28 | 2 27 19 | 4°59'24 | 5♏ 3 | 28°54 | 19°36 | 22°13 | 8°41 | 21°25 | 19°19 | 21°25 | 8°39 | 13° 4 | 11°33 | 5°56 | 12°37 | M28 | |
| T 29 | 2 31 16 | 5°59'01 | 16°54 | 29°30 | 20°41 | 22°57 | 8°51 | 21°29 | 19°23 | 21°25 | 8°38 | 12°54 | 11°30 | 6° 3 | 12°34 | T 29 | |
| W30 | 2 35 12 | 6°58'40 | 28°45 | 0♏ 1 | 21°46 | 23°40 | 9° 0 | 21°32 | 19°27 | 21°25 | 8°37 | 12°46 | 11°27 | 6° 9 | 12°32 | W30 | |
| T 31 | 2 39 9 | 7♎58'20 | 10♏40 | 0♏26 | 22♎52 | 24♏24 | 9♏10 | 21♏36 | 19♎30 | 21♏24 | 8°Y36 | 12♎40 | 11♎24 | 6♏16 | 12♏29 | T 31 | |

Delta T = 18m02s

ASTRODIENST EPHEMERIS for the year 2565
geocentric

NOVEMBER 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|------|--------|------|-----|
| F 1 | 2 43 5 | 8♁58'02 | 22♁42 | 0♁744 | 23♁57 | 25♁8 | 9♁20 | 21♁39 | 19♁34 | 21°R24 | 8°R35 | 12°R36 | 11♁21 | 6♁23 | 12°R26 | F 1 | |
| S 2 | 2 47 2 | 9°57'46 | 4♁55 | 0°56 | 25° 3 | 25°52 | 9°30 | 21°43 | 19°38 | 21♁24 | 8♁34 | 12°D34 | 11°17 | 6°29 | 12♁23 | S 2 | |
| S 3 | 2 50 58 | 10°57'32 | 17°25 | 1°R 0 | 26°10 | 26°35 | 9°40 | 21°46 | 19°41 | 21°24 | 8°33 | 12♁35 | 11°14 | 6°36 | 12°20 | S 3 | |
| M 4 | 2 54 55 | 11°57'19 | 0♁16 | 0°57 | 27°16 | 27°19 | 9°50 | 21°49 | 19°45 | 21°23 | 8°32 | 12°35 | 11°11 | 6°43 | 12°17 | M 4 | |
| T 5 | 2 58 52 | 12°57'08 | 13°33 | 0°44 | 28°23 | 28° 3 | 10° 0 | 21°52 | 19°49 | 21°23 | 8°31 | 12°R36 | 11° 8 | 6°50 | 12°14 | T 5 | |
| W 6 | 3 2 48 | 13°56'58 | 27°18 | 0°23 | 29°30 | 28°47 | 10°10 | 21°55 | 19°53 | 21°22 | 8°30 | 12°35 | 11° 5 | 6°56 | 12°12 | W 6 | |
| T 7 | 3 6 45 | 14°56'50 | 11♁33 | 29♁53 | 0♁37 | 29°32 | 10°21 | 21°58 | 19°56 | 21°22 | 8°29 | 12°32 | 11° 1 | 7° 3 | 12° 9 | T 7 | |
| F 8 | 3 10 41 | 15°56'44 | 26°15 | 29°13 | 1°45 | 0♁16 | 10°31 | 22° 1 | 20° 0 | 21°22 | 8°28 | 12°26 | 10°58 | 7°10 | 12° 6 | F 8 | |
| S 9 | 3 14 38 | 16°56'40 | 11♁18 | 28°24 | 2°52 | 1° 0 | 10°42 | 22° 4 | 20° 4 | 21°21 | 8°27 | 12°18 | 10°55 | 7°17 | 12° 3 | S 9 | |
| S 10 | 3 18 34 | 17°56'38 | 26°34 | 27°27 | 4° 0 | 1°45 | 10°53 | 22° 7 | 20° 8 | 21°21 | 8°26 | 12° 8 | 10°52 | 7°23 | 12° 0 | S 10 | |
| M 11 | 3 22 31 | 18°56'37 | 11♁50 | 26°21 | 5° 8 | 2°29 | 11° 4 | 22° 9 | 20°11 | 21°20 | 8°25 | 11°58 | 10°49 | 7°30 | 11°57 | M 11 | |
| T 12 | 3 26 27 | 19°56'39 | 26°57 | 25°10 | 6°16 | 3°14 | 11°15 | 22°12 | 20°15 | 21°19 | 8°25 | 11°49 | 10°46 | 7°37 | 11°55 | T 12 | |
| W 13 | 3 30 24 | 20°56'42 | 11♁45 | 23°54 | 7°25 | 3°58 | 11°26 | 22°14 | 20°19 | 21°19 | 8°24 | 11°41 | 10°42 | 7°43 | 11°52 | W 13 | |
| T 14 | 3 34 21 | 21°56'48 | 26° 8 | 22°35 | 8°34 | 4°43 | 11°37 | 22°16 | 20°23 | 21°18 | 8°23 | 11°36 | 10°39 | 7°50 | 11°49 | T 14 | |
| F 15 | 3 38 17 | 22°56'56 | 10♁ 3 | 21°17 | 9°42 | 5°28 | 11°48 | 22°18 | 20°26 | 21°17 | 8°22 | 11°34 | 10°36 | 7°57 | 11°46 | F 15 | |
| S 16 | 3 42 14 | 23°57'06 | 23°31 | 20° 1 | 10°51 | 6°12 | 11°59 | 22°20 | 20°30 | 21°17 | 8°21 | 11°D33 | 10°33 | 8° 4 | 11°43 | S 16 | |
| S 17 | 3 46 10 | 24°57'17 | 6♁36 | 18°50 | 12° 1 | 6°57 | 12°11 | 22°22 | 20°34 | 21°16 | 8°21 | 11°R33 | 10°30 | 8°10 | 11°41 | S 17 | |
| M 18 | 3 50 7 | 25°57'31 | 19°19 | 17°46 | 13°10 | 7°42 | 12°22 | 22°24 | 20°38 | 21°15 | 8°20 | 11°33 | 10°27 | 8°17 | 11°38 | M 18 | |
| T 19 | 3 54 3 | 26°57'47 | 1♁47 | 16°51 | 14°19 | 8°27 | 12°34 | 22°25 | 20°42 | 21°14 | 8°19 | 11°32 | 10°23 | 8°24 | 11°35 | T 19 | |
| W 20 | 3 58 0 | 27°58'05 | 14° 2 | 16° 7 | 15°29 | 9°12 | 12°45 | 22°27 | 20°45 | 21°13 | 8°18 | 11°27 | 10°20 | 8°31 | 11°32 | W 20 | |
| T 21 | 4 1 56 | 28°58'24 | 26° 8 | 15°34 | 16°39 | 9°57 | 12°57 | 22°28 | 20°49 | 21°13 | 8°18 | 11°20 | 10°17 | 8°37 | 11°30 | T 21 | |
| F 22 | 4 5 53 | 29°58'46 | 8♁ 9 | 15°12 | 17°49 | 10°42 | 13° 9 | 22°30 | 20°53 | 21°12 | 8°17 | 11°10 | 10°14 | 8°44 | 11°27 | F 22 | |
| S 23 | 4 9 50 | 0♁59'09 | 20° 4 | 15°D 2 | 18°59 | 11°28 | 13°21 | 22°31 | 20°56 | 21°11 | 8°16 | 10°57 | 10°11 | 8°51 | 11°24 | S 23 | |
| S 24 | 4 13 46 | 1°59'34 | 1♁58 | 15° 4 | 20° 9 | 12°13 | 13°33 | 22°32 | 21° 0 | 21°10 | 8°16 | 10°43 | 10° 7 | 8°57 | 11°22 | S 24 | |
| M 25 | 4 17 43 | 3° 0'01 | 13°50 | 15°16 | 21°20 | 12°58 | 13°45 | 22°33 | 21° 4 | 21° 9 | 8°15 | 10°28 | 10° 4 | 9° 4 | 11°19 | M 25 | |
| T 26 | 4 21 39 | 4° 0'29 | 25°42 | 15°39 | 22°30 | 13°44 | 13°57 | 22°34 | 21° 8 | 21° 8 | 8°15 | 10°14 | 10° 1 | 9°11 | 11°17 | T 26 | |
| W 27 | 4 25 36 | 5° 0'58 | 7♁35 | 16°10 | 23°41 | 14°29 | 14° 9 | 22°35 | 21°11 | 21° 7 | 8°14 | 10° 1 | 9°58 | 9°18 | 11°14 | W 27 | |
| T 28 | 4 29 32 | 6° 1'30 | 19°32 | 16°49 | 24°52 | 15°15 | 14°21 | 22°35 | 21°15 | 21° 6 | 8°13 | 9°51 | 9°55 | 9°24 | 11°11 | T 28 | |
| F 29 | 4 33 29 | 7° 2'02 | 1♁36 | 17°36 | 26° 3 | 16° 0 | 14°34 | 22°36 | 21°19 | 21° 4 | 8°13 | 9°44 | 9°52 | 9°31 | 11° 9 | F 29 | |
| S 30 | 4 37 25 | 8♁ 2'35 | 13♁49 | 18♁30 | 27♁14 | 16♁46 | 14♁46 | 22♁36 | 21♁22 | 21♁3 | 8♁12 | 9♁40 | 9♁48 | 9♁38 | 11♁ 7 | S 30 | |

Delta T = 18m03s

DECEMBER 2565

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|------|-------|--------|------|-----|
| S 1 | 4 41 22 | 9♁ 3'10 | 26♁16 | 19♁29 | 28♁25 | 17♁32 | 14♁59 | 22♁37 | 21♁26 | 21°R 2 | 8°R12 | 9°R39 | 9♁45 | 9♁44 | 11°R 4 | S 1 | |
| M 2 | 4 45 19 | 10° 3'46 | 9♁ 1 | 20°33 | 29°36 | 18°17 | 15°11 | 22°37 | 21°30 | 21♁1 | 8°R11 | 9♁38 | 9°42 | 9°51 | 11♁ 2 | M 2 | |
| T 3 | 4 49 15 | 11° 4'23 | 22° 9 | 21°41 | 0♁47 | 19° 3 | 15°24 | 22°R37 | 21°33 | 21° 0 | 8°11 | 9°38 | 9°39 | 9°58 | 10°59 | T 3 | |
| W 4 | 4 53 12 | 12° 5'01 | 5♁44 | 22°53 | 1°59 | 19°49 | 15°36 | 22°37 | 21°37 | 20°59 | 8°10 | 9°37 | 9°36 | 10° 5 | 10°57 | W 4 | |
| T 5 | 4 57 8 | 13° 5'40 | 19°49 | 24° 8 | 3°10 | 20°35 | 15°49 | 22°37 | 21°40 | 20°57 | 8°10 | 9°33 | 9°33 | 10°11 | 10°55 | T 5 | |
| F 6 | 5 1 5 | 14° 6'21 | 4♁22 | 25°25 | 4°22 | 21°21 | 16° 2 | 22°37 | 21°44 | 20°56 | 8°10 | 9°27 | 9°29 | 10°18 | 10°52 | F 6 | |
| S 7 | 5 5 1 | 15° 7'02 | 19°20 | 26°46 | 5°34 | 22° 7 | 16°15 | 22°36 | 21°47 | 20°55 | 8° 9 | 9°18 | 9°26 | 10°25 | 10°50 | S 7 | |
| S 8 | 5 8 58 | 16° 7'45 | 4♁36 | 28° 8 | 6°46 | 22°53 | 16°27 | 22°36 | 21°51 | 20°53 | 8° 9 | 9° 7 | 9°23 | 10°32 | 10°48 | S 8 | |
| M 9 | 5 12 54 | 17° 8'29 | 19°58 | 29°31 | 7°58 | 23°39 | 16°40 | 22°35 | 21°55 | 20°52 | 8° 9 | 8°56 | 9°20 | 10°38 | 10°46 | M 9 | |
| T 10 | 5 16 51 | 18° 9'14 | 5♁16 | 0♁56 | 9°10 | 24°25 | 16°53 | 22°35 | 21°58 | 20°51 | 8° 8 | 8°45 | 9°17 | 10°45 | 10°44 | T 10 | |
| W 11 | 5 20 48 | 19°10'00 | 20°17 | 2°23 | 10°22 | 25°12 | 17° 6 | 22°34 | 22° 1 | 20°49 | 8° 8 | 8°36 | 9°13 | 10°52 | 10°41 | W 11 | |
| T 12 | 5 24 44 | 20°10'48 | 4♁54 | 3°50 | 11°34 | 25°58 | 17°20 | 22°33 | 22° 5 | 20°48 | 8° 8 | 8°30 | 9°10 | 10°58 | 10°39 | T 12 | |
| F 13 | 5 28 41 | 21°11'37 | 19° 1 | 5°18 | 12°47 | 26°44 | 17°33 | 22°32 | 22° 8 | 20°47 | 8° 8 | 8°26 | 9° 7 | 11° 5 | 10°37 | F 13 | |
| S 14 | 5 32 37 | 22°12'27 | 2♁39 | 6°47 | 13°59 | 27°30 | 17°46 | 22°31 | 22°12 | 20°45 | 8° 7 | 8°25 | 9° 4 | 11°12 | 10°35 | S 14 | |
| S 15 | 5 36 34 | 23°13'19 | 15°48 | 8°16 | 15°12 | 28°17 | 17°59 | 22°29 | 22°15 | 20°44 | 8° 7 | 8°D25 | 9° 1 | 11°19 | 10°33 | S 15 | |
| M 16 | 5 40 30 | 24°14'12 | 28°33 | 9°46 | 16°24 | 29° 3 | 18°12 | 22°28 | 22°18 | 20°42 | 8° 7 | 8°R25 | 8°58 | 11°25 | 10°32 | M 16 | |
| T 17 | 5 44 27 | 25°15'06 | 10♁59 | 11°17 | 17°37 | 29°50 | 18°26 | 22°27 | 22°22 | 20°41 | 8° 7 | 8°24 | 8°54 | 11°32 | 10°30 | T 17 | |
| W 18 | 5 48 24 | 26°16'01 | 23°10 | 12°48 | 18°50 | 0♁36 | 18°39 | 22°25 | 22°25 | 20°39 | 8° 7 | 8°20 | 8°51 | 11°39 | 10°28 | W 18 | |
| T 19 | 5 52 20 | 27°16'58 | 5♁11 | 14°19 | 20° 2 | 1°23 | 18°52 | 22°23 | 22°28 | 20°38 | 8° 7 | 8°14 | 8°48 | 11°46 | 10°26 | T 19 | |
| F 20 | 5 56 17 | 28°17'56 | 17° 6 | 15°50 | 21°15 | 2° 9 | 19° 6 | 22°22 | 22°32 | 20°36 | 8° 7 | 8° 6 | 8°45 | 11°52 | 10°24 | F 20 | |
| S 21 | 6 0 13 | 29°18'55 | 28°57 | 17°22 | 22°28 | 2°56 | 19°19 | 22°20 | 22°35 | 20°35 | 8° 7 | 7°54 | 8°42 | 11°59 | 10°23 | S 21 | |
| S 22 | 6 4 10 | 0♁19'55 | 10♁49 | 18°54 | 23°41 | 3°42 | 19°33 | 22°18 | 22°38 | 20°33 | 8°D 7 | 7°41 | 8°39 | 12° 6 | 10°21 | S 22 | |
| M 23 | 6 8 6 | 1°20'56 | 22°42 | 20°26 | 24°54 | 4°29 | 19°46 | 22°16 | 22°41 | 20°32 | 8° 7 | 7°28 | 8°35 | 12°12 | 10°20 | M 23 | |
| T 24 | 6 12 3 | 2°21'57 | 4♁37 | 21°58 | 26° 8 | 5°16 | 20° 0 | 22°13 | 22°44 | 20°30 | 8° 7 | 7°15 | 8°32 | 12°19 | 10°18 | T 24 | |
| W 25 | 6 15 59 | 3°23'00 | 16°37 | 23°30 | 27°21 | 6° 3 | 20°14 | 22°11 | 22°47 | 20°28 | 8° 7 | 7° 3 | 8°29 | 12°26 | 10°17 | W 25 | |
| T 26 | 6 19 56 | 4°24'03 | 28°42 | 25° 3 | 28°34 | 6°50 | 20°27 | 22° 9 | 22°50 | 20°27 | 8° 7 | 6°54 | 8°26 | 12°33 | 10°15 | T 26 | |
| F 27 | 6 23 53 | 5°25'06 | 10♁55 | 26°36 | 29°47 | 7°36 | 20°41 | 22° 6 | 22°54 | 20°25 | 8° 7 | 6°48 | 8°23 | 12°39 | 10°14 | F 27 | |
| S 28 | 6 27 49 | 6°26'10 | 23°16 | 28° 9 | 1♁ 1 | 8°23 | 20°55 | 22° 4 | 22°57 | 20°23 | 8° 7 | 6°45 | 8°19 | 12°46 | 10°13 | S 28 | |
| S 29 | 6 31 46 | 7°27'14 | 5♁49 | 29°42 | 2°14 | 9°10 | 21° 8 | 22° 1 | 22°59 | 20°22 | 8° 7 | 6°D44 | 8°16 | 12°53 | 10°11 | S 29 | |
| M 30 | 6 35 42 | 8°28'19 | 18°36 | 1♁15 | 3°28 | 9°57 | 21°22 | 21°58 | 23° 2 | 20°20 | 8° 7 | 6°44 | 8°13 | 12°59 | 10°10 | M 30 | |
| T 31 | 6 39 39 | 9♁29'24 | 1°42 | 2♁48 | 4♁41 | 10♁44 | 21♁36 | 21♁55 | 23♁ 5 | 20♁19 | 8♁ 8 | 6♁45 | 8♁10 | 13♁ 6 | 10♁ 9 | T 31 | |

ASTRODIENST EPHEMERIS for the year 2566
geocentric

JANUARY 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|------|-------|--------|------|
| W 1 | 6 43 35 | 10♌30'29 | 15♍10 | 4♋22 | 5♌55 | 11♍31 | 21♌50 | 21°R52 | 23♍ 8 | 20°R17 | 8♍ 8 | 6°R45 | 8♋ 7 | 13♌13 | 10°R 8 | W 1 |
| T 2 | 6 47 32 | 11°31'34 | 29° 2 | 5°56 | 7° 8 | 12°18 | 22° 4 | 21♌49 | 23°11 | 20♌15 | 8° 8 | 6♋44 | 8° 4 | 13°20 | 10♌ 7 | T 2 |
| F 3 | 6 51 28 | 12°32'39 | 13♌18 | 7°30 | 8°22 | 13° 5 | 22°17 | 21°46 | 23°14 | 20°13 | 8° 8 | 6°40 | 8° 0 | 13°26 | 10° 6 | F 3 |
| S 4 | 6 55 25 | 13°33'44 | 27°58 | 9° 4 | 9°36 | 13°52 | 22°31 | 21°43 | 23°17 | 20°12 | 8° 9 | 6°34 | 7°57 | 13°33 | 10° 5 | S 4 |
| S 5 | 6 59 22 | 14°34'50 | 12♌55 | 10°39 | 10°49 | 14°39 | 22°45 | 21°39 | 23°19 | 20°10 | 8° 9 | 6°27 | 7°54 | 13°40 | 10° 4 | S 5 |
| M 6 | 7 3 18 | 15°35'56 | 28° 3 | 12°14 | 12° 3 | 15°26 | 22°59 | 21°36 | 23°22 | 20° 8 | 8° 9 | 6°18 | 7°51 | 13°47 | 10° 3 | M 6 |
| T 7 | 7 7 15 | 16°37'02 | 13♌12 | 13°49 | 13°17 | 16°13 | 23°13 | 21°32 | 23°25 | 20° 7 | 8°10 | 6°10 | 7°48 | 13°53 | 10° 3 | T 7 |
| W 8 | 7 11 11 | 17°38'08 | 28°10 | 15°24 | 14°31 | 17° 0 | 23°27 | 21°29 | 23°27 | 20° 5 | 8°10 | 6° 4 | 7°45 | 14° 0 | 10° 2 | W 8 |
| T 9 | 7 15 8 | 18°39'14 | 12♌49 | 17° 0 | 15°45 | 17°48 | 23°41 | 21°25 | 23°30 | 20° 3 | 8°11 | 5°59 | 7°41 | 14° 7 | 10° 1 | T 9 |
| F 10 | 7 19 4 | 19°40'21 | 27° 3 | 18°36 | 16°59 | 18°35 | 23°55 | 21°21 | 23°32 | 20° 2 | 8°11 | 5°57 | 7°38 | 14°13 | 10° 1 | F 10 |
| S 11 | 7 23 1 | 20°41'27 | 10♍50 | 20°12 | 18°13 | 19°22 | 24° 9 | 21°18 | 23°35 | 20° 0 | 8°11 | 5°D57 | 7°35 | 14°20 | 10° 0 | S 11 |
| S 12 | 7 26 58 | 21°42'34 | 24° 8 | 21°49 | 19°27 | 20° 9 | 24°23 | 21°14 | 23°37 | 19°58 | 8°12 | 5°58 | 7°32 | 14°27 | 10° 0 | S 12 |
| M13 | 7 30 54 | 22°43'42 | 7♌ 0 | 23°26 | 20°41 | 20°56 | 24°37 | 21°10 | 23°39 | 19°57 | 8°12 | 6° 0 | 7°29 | 14°34 | 9°59 | M13 |
| T 14 | 7 34 51 | 23°44'49 | 19°31 | 25° 3 | 21°55 | 21°44 | 24°51 | 21° 6 | 23°42 | 19°55 | 8°13 | 6°R 1 | 7°25 | 14°40 | 9°59 | T 14 |
| W15 | 7 38 47 | 24°45'57 | 1♍45 | 26°41 | 23° 9 | 22°31 | 25° 5 | 21° 2 | 23°44 | 19°53 | 8°14 | 6° 0 | 7°22 | 14°47 | 9°59 | W15 |
| T 16 | 7 42 44 | 25°47'05 | 13°47 | 28°19 | 24°23 | 23°18 | 25°19 | 20°57 | 23°46 | 19°51 | 8°14 | 5°58 | 7°19 | 14°54 | 9°58 | T 16 |
| F 17 | 7 46 40 | 26°48'13 | 25°41 | 29°58 | 25°37 | 24° 6 | 25°33 | 20°53 | 23°49 | 19°50 | 8°15 | 5°55 | 7°16 | 15° 1 | 9°58 | F 17 |
| S 18 | 7 50 37 | 27°49'22 | 7♌32 | 1♌37 | 26°51 | 24°53 | 25°47 | 20°49 | 23°51 | 19°48 | 8°15 | 5°49 | 7°13 | 15° 7 | 9°58 | S 18 |
| S 19 | 7 54 33 | 28°50'30 | 19°23 | 3°16 | 28° 5 | 25°40 | 26° 1 | 20°45 | 23°53 | 19°46 | 8°16 | 5°43 | 7°10 | 15°14 | 9°58 | S 19 |
| M20 | 7 58 30 | 29°51'38 | 1♌18 | 4°56 | 29°20 | 26°28 | 26°15 | 20°40 | 23°55 | 19°45 | 8°17 | 5°36 | 7° 6 | 15°21 | 9°D58 | M20 |
| T 21 | 8 2 27 | 0♌52'47 | 13°19 | 6°36 | 0♌34 | 27°15 | 26°29 | 20°36 | 23°57 | 19°43 | 8°17 | 5°29 | 7° 3 | 15°27 | 9°58 | T 21 |
| W22 | 8 6 23 | 1°53'55 | 25°28 | 8°16 | 1°48 | 28° 2 | 26°43 | 20°31 | 23°59 | 19°41 | 8°18 | 5°23 | 7° 0 | 15°34 | 9°58 | W22 |
| T 23 | 8 10 20 | 2°55'02 | 7♌45 | 9°57 | 3° 3 | 28°50 | 26°56 | 20°27 | 24° 1 | 19°40 | 8°19 | 5°18 | 6°57 | 15°41 | 9°58 | T 23 |
| F 24 | 8 14 16 | 3°56'09 | 20°13 | 11°38 | 4°17 | 29°37 | 27°10 | 20°22 | 24° 3 | 19°38 | 8°20 | 5°15 | 6°54 | 15°48 | 9°58 | F 24 |
| S 25 | 8 18 13 | 4°57'16 | 2♌51 | 13°20 | 5°31 | 0♌24 | 27°24 | 20°18 | 24° 5 | 19°37 | 8°20 | 5°D14 | 6°51 | 15°54 | 9°59 | S 25 |
| S 26 | 8 22 9 | 5°58'22 | 15°40 | 15° 1 | 6°46 | 1°12 | 27°38 | 20°13 | 24° 6 | 19°35 | 8°21 | 5°15 | 6°47 | 16° 1 | 9°59 | S 26 |
| M27 | 8 26 6 | 6°59'27 | 28°42 | 16°43 | 8° 0 | 1°59 | 27°52 | 20° 8 | 24° 8 | 19°33 | 8°22 | 5°16 | 6°44 | 16° 8 | 10° 0 | M27 |
| T 28 | 8 30 2 | 8° 0'32 | 11♍59 | 18°25 | 9°14 | 2°47 | 28° 6 | 20° 3 | 24°10 | 19°32 | 8°23 | 5°18 | 6°41 | 16°14 | 10° 0 | T 28 |
| W29 | 8 33 59 | 9° 1'36 | 25°30 | 20° 7 | 10°29 | 3°34 | 28°20 | 19°59 | 24°11 | 19°30 | 8°24 | 5°19 | 6°38 | 16°21 | 10° 0 | W29 |
| T 30 | 8 37 56 | 10° 2'38 | 9♌19 | 21°48 | 11°43 | 4°21 | 28°34 | 19°54 | 24°13 | 19°28 | 8°24 | 5°R20 | 6°35 | 16°28 | 10° 1 | T 30 |
| F 31 | 8 41 52 | 11° 3'40 | 23♌24 | 23°29 | 12♌58 | 5♌ 9 | 28°48 | 19°49 | 24♍14 | 19°27 | 8°R25 | 5♌19 | 6♌31 | 16°35 | 10♌ 2 | F 31 |

Delta T = 18m03s

FEBRUARY 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|--------|--------|--------|-------|-------|------|-------|-------|------|
| S 1 | 8 45 49 | 12° 4'42 | 7♌44 | 25°10 | 14♌12 | 5♌56 | 29♌ 2 | 19°R44 | 24♍16 | 19°R25 | 8°R26 | 5°R18 | 6♌28 | 16°41 | 10♌ 2 | S 1 |
| S 2 | 8 49 45 | 13° 5'42 | 22°17 | 26°50 | 15°26 | 6°44 | 29°15 | 19°R39 | 24°17 | 19°R24 | 8°27 | 5♌15 | 6°25 | 16°48 | 10° 3 | S 2 |
| M 3 | 8 53 42 | 14° 6'41 | 6♌57 | 28°29 | 16°41 | 7°31 | 29°29 | 19°34 | 24°19 | 19°22 | 8°28 | 5°12 | 6°22 | 16°55 | 10° 4 | M 3 |
| T 4 | 8 57 38 | 15° 7'39 | 21°40 | 0♌ 7 | 17°55 | 8°18 | 29°43 | 19°30 | 24°20 | 19°21 | 8°29 | 5° 9 | 6°19 | 17° 2 | 10° 5 | T 4 |
| W 5 | 9 1 35 | 16° 8'36 | 6♌16 | 1°43 | 19°10 | 9° 6 | 29°57 | 19°25 | 24°21 | 19°19 | 8°30 | 5° 7 | 6°16 | 17° 8 | 10° 6 | W 5 |
| T 6 | 9 5 31 | 17° 9'33 | 20°41 | 3°17 | 20°24 | 9°53 | 0♌10 | 19°20 | 24°22 | 19°18 | 8°31 | 5° 5 | 6°12 | 17°15 | 10° 7 | T 6 |
| F 7 | 9 9 28 | 18°10'28 | 4♍47 | 4°48 | 21°39 | 10°40 | 0°24 | 19°15 | 24°24 | 19°16 | 8°32 | 5°D 5 | 6° 9 | 17°22 | 10° 8 | F 7 |
| S 8 | 9 13 25 | 19°11'22 | 18°32 | 6°17 | 22°53 | 11°28 | 0°38 | 19°10 | 24°25 | 19°15 | 8°33 | 5° 5 | 6° 6 | 17°28 | 10° 9 | S 8 |
| S 9 | 9 17 21 | 20°12'16 | 1♌52 | 7°42 | 24° 8 | 12°15 | 0°51 | 19° 5 | 24°26 | 19°14 | 8°34 | 5° 6 | 6° 3 | 17°35 | 10°10 | S 9 |
| M10 | 9 21 18 | 21°13'09 | 14°50 | 9° 2 | 25°22 | 13° 2 | 1° 5 | 19° 0 | 24°27 | 19°12 | 8°35 | 5° 8 | 6° 0 | 17°42 | 10°11 | M10 |
| T 11 | 9 25 14 | 22°14'01 | 27°27 | 10°18 | 26°37 | 13°50 | 1°19 | 18°55 | 24°28 | 19°11 | 8°36 | 5° 9 | 5°57 | 17°49 | 10°12 | T 11 |
| W12 | 9 29 11 | 23°14'52 | 9♍45 | 11°28 | 27°52 | 14°37 | 1°32 | 18°50 | 24°29 | 19° 9 | 8°38 | 5°10 | 5°53 | 17°55 | 10°14 | W12 |
| T 13 | 9 33 7 | 24°15'43 | 21°51 | 12°32 | 29° 6 | 15°24 | 1°46 | 18°45 | 24°29 | 19° 8 | 8°39 | 5°R10 | 5°50 | 18° 2 | 10°15 | T 13 |
| F 14 | 9 37 4 | 25°16'32 | 3♌47 | 13°29 | 0♌21 | 16°12 | 1°59 | 18°40 | 24°30 | 19° 7 | 8°40 | 5°10 | 5°47 | 18° 9 | 10°17 | F 14 |
| S 15 | 9 41 0 | 26°17'21 | 15°39 | 14°17 | 1°35 | 16°59 | 2°12 | 18°36 | 24°31 | 19° 6 | 8°41 | 5° 9 | 5°44 | 18°15 | 10°18 | S 15 |
| S 16 | 9 44 57 | 27°18'09 | 27°31 | 14°57 | 2°50 | 17°46 | 2°26 | 18°31 | 24°31 | 19° 4 | 8°42 | 5° 8 | 5°41 | 18°22 | 10°20 | S 16 |
| M17 | 9 48 54 | 28°18'56 | 9♌28 | 15°28 | 4° 5 | 18°34 | 2°39 | 18°26 | 24°32 | 19° 3 | 8°43 | 5° 7 | 5°37 | 18°29 | 10°21 | M17 |
| T 18 | 9 52 50 | 29°19'42 | 21°34 | 15°48 | 5°19 | 19°21 | 2°52 | 18°21 | 24°33 | 19° 2 | 8°45 | 5° 7 | 5°34 | 18°36 | 10°23 | T 18 |
| W19 | 9 56 47 | 0♌20'27 | 3♌50 | 15°R58 | 6°34 | 20° 8 | 3° 6 | 18°16 | 24°33 | 19° 1 | 8°46 | 5° 6 | 5°31 | 18°42 | 10°24 | W19 |
| T 20 | 10 0 43 | 1°21'11 | 16°19 | 15°58 | 7°49 | 20°55 | 3°19 | 18°12 | 24°34 | 18°59 | 8°47 | 5° 5 | 5°28 | 18°49 | 10°26 | T 20 |
| F 21 | 10 4 40 | 2°21'54 | 29° 3 | 15°46 | 9° 3 | 21°42 | 3°32 | 18° 7 | 24°34 | 18°58 | 8°48 | 5°D 5 | 5°25 | 18°56 | 10°28 | F 21 |
| S 22 | 10 8 36 | 3°22'35 | 12♌ 2 | 15°25 | 10°18 | 22°30 | 3°45 | 18° 2 | 24°34 | 18°57 | 8°49 | 5° 5 | 5°22 | 19° 2 | 10°30 | S 22 |
| S 23 | 10 12 33 | 4°23'14 | 25°16 | 14°53 | 11°32 | 23°17 | 3°58 | 17°58 | 24°35 | 18°56 | 8°51 | 5° 5 | 5°18 | 19° 9 | 10°32 | S 23 |
| M24 | 10 16 29 | 5°23'52 | 8♍43 | 14°12 | 12°47 | 24° 4 | 4°11 | 17°53 | 24°35 | 18°55 | 8°52 | 5°R 5 | 5°15 | 19°16 | 10°34 | M24 |
| T 25 | 10 20 26 | 6°24'29 | 22°22 | 13°22 | 14° 2 | 24°51 | 4°24 | 17°48 | 24°35 | 18°54 | 8°53 | 5° 5 | 5°12 | 19°23 | 10°36 | T 25 |
| W26 | 10 24 23 | 7°25'04 | 6♌12 | 12°26 | 15°16 | 25°38 | 4°37 | 17°44 | 24°35 | 18°53 | 8°55 | 5° 5 | 5° 9 | 19°29 | 10°38 | W26 |
| T 27 | 10 28 19 | 8°25'37 | 20°11 | 11°24 | 16°31 | 26°25 | 4°50 | 17°39 | 24°R35 | 18°52 | 8°56 | 5° 5 | 5° 6 | 19°36 | 10°40 | T 27 |
| F 28 | 10 32 16 | 9♌26'09 | 4♍17 | 10♌19 | 17°46 | 27°12 | 5° 3 | 17°R35 | 24♍35 | 18°51 | 8°R57 | 5°D 5 | 5♌ 3 | 19°43 | 10♌42 | F 28 |

Delta T = 18m03s

ASTRODIENST EPHEMERIS for the year 2566
geocentric

MARCH 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------|-------|-------|-------|--------|-------|--------|--------|--------|-------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 10 36 12 | 10♋26°38 | 18♏29 | 9°R12 | 19♌0 | 27♋59 | 5♌15 | 17°R31 | 24°R35 | 18°R50 | 8°V59 | 5♋5 | 4♋59 | 19♌50 | 10♈44 | S 1 | | | | | | | | |
| S 2 | 10 40 9 | 11°27'06 | 2♉43 | 8♋5 | 20°15 | 28°47 | 5°28 | 17♏26 | 24♎35 | 18♉49 | 9°0 | 5°5 | 4°56 | 19°56 | 10°46 | S 2 | | | | | | | | |
| M 3 | 10 44 5 | 12°27'32 | 16°58 | 6°59 | 21°29 | 29°34 | 5°41 | 17°22 | 24°35 | 18°48 | 9°1 | 5°6 | 4°53 | 20°3 | 10°48 | M 3 | | | | | | | | |
| T 4 | 10 48 2 | 13°27'56 | 1♏10 | 5°57 | 22°44 | 0°V20 | 5°53 | 17°18 | 24°35 | 18°47 | 9°3 | 5°6 | 4°50 | 20°10 | 10°51 | T 4 | | | | | | | | |
| W 5 | 10 51 58 | 14°28'18 | 15°17 | 4°58 | 23°59 | 1°7 | 6°6 | 17°14 | 24°34 | 18°47 | 9°4 | 5°7 | 4°47 | 20°16 | 10°53 | W 5 | | | | | | | | |
| T 6 | 10 55 55 | 15°28'39 | 29°14 | 4°5 | 25°13 | 1°54 | 6°18 | 17°10 | 24°34 | 18°46 | 9°5 | 5°R7 | 4°43 | 20°23 | 10°55 | T 6 | | | | | | | | |
| F 7 | 10 59 52 | 16°28'57 | 12♎59 | 3°18 | 26°28 | 2°41 | 6°30 | 17°6 | 24°34 | 18°45 | 9°7 | 5°7 | 4°40 | 20°30 | 10°58 | F 7 | | | | | | | | |
| S 8 | 11 3 48 | 17°29'14 | 26°28 | 2°38 | 27°43 | 3°28 | 6°43 | 17°2 | 24°33 | 18°44 | 9°8 | 5°7 | 4°37 | 20°37 | 11°0 | S 8 | | | | | | | | |
| S 9 | 11 7 45 | 18°29'29 | 9♌40 | 2°4 | 28°57 | 4°15 | 6°55 | 16°58 | 24°33 | 18°44 | 9°10 | 5°5 | 4°34 | 20°43 | 11°3 | S 9 | | | | | | | | |
| M10 | 11 11 41 | 19°29'43 | 22°34 | 1°38 | 0♋12 | 5°2 | 7°7 | 16°54 | 24°32 | 18°43 | 9°11 | 5°3 | 4°31 | 20°50 | 11°5 | M10 | | | | | | | | |
| T 11 | 11 15 38 | 20°29'55 | 5♎10 | 1°19 | 1°26 | 5°48 | 7°19 | 16°51 | 24°31 | 18°42 | 9°13 | 5°1 | 4°28 | 20°57 | 11°8 | T 11 | | | | | | | | |
| W12 | 11 19 34 | 21°30'06 | 17°31 | 1°7 | 2°41 | 6°35 | 7°31 | 16°47 | 24°31 | 18°42 | 9°14 | 4°59 | 4°24 | 21°3 | 11°11 | W12 | | | | | | | | |
| T 13 | 11 23 31 | 22°30'15 | 29°38 | 1°D1 | 3°56 | 7°22 | 7°43 | 16°44 | 24°30 | 18°41 | 9°15 | 4°57 | 4°21 | 21°10 | 11°13 | T 13 | | | | | | | | |
| F 14 | 11 27 27 | 23°30'22 | 11♌36 | 1°2 | 5°10 | 8°9 | 7°55 | 16°40 | 24°29 | 18°41 | 9°17 | 4°55 | 4°18 | 21°17 | 11°16 | F 14 | | | | | | | | |
| S 15 | 11 31 24 | 24°30'28 | 23°29 | 1°10 | 6°25 | 8°55 | 8°7 | 16°37 | 24°29 | 18°40 | 9°18 | 4°D55 | 4°15 | 21°24 | 11°19 | S 15 | | | | | | | | |
| S 16 | 11 35 21 | 25°30'32 | 5♊22 | 1°23 | 7°39 | 9°42 | 8°18 | 16°33 | 24°28 | 18°40 | 9°20 | 4°55 | 4°12 | 21°30 | 11°22 | S 16 | | | | | | | | |
| M17 | 11 39 17 | 26°30'35 | 17°19 | 1°42 | 8°54 | 10°28 | 8°30 | 16°30 | 24°27 | 18°39 | 9°21 | 4°56 | 4°8 | 21°37 | 11°25 | M17 | | | | | | | | |
| T 18 | 11 43 14 | 27°30'37 | 29°25 | 2°6 | 10°9 | 11°15 | 8°41 | 16°27 | 24°26 | 18°39 | 9°23 | 4°58 | 4°5 | 21°44 | 11°27 | T 18 | | | | | | | | |
| W19 | 11 47 10 | 28°30'36 | 11♌45 | 2°35 | 11°23 | 12°1 | 8°53 | 16°24 | 24°25 | 18°38 | 9°24 | 5°0 | 4°2 | 21°50 | 11°30 | W19 | | | | | | | | |
| T 20 | 11 51 7 | 29°30'34 | 24°22 | 3°9 | 12°38 | 12°48 | 9°4 | 16°21 | 24°24 | 18°38 | 9°26 | 5°1 | 3°59 | 21°57 | 11°33 | T 20 | | | | | | | | |
| F 21 | 11 55 3 | 0°V30'30 | 7♋18 | 3°47 | 13°52 | 13°34 | 9°15 | 16°18 | 24°23 | 18°38 | 9°27 | 5°R1 | 3°56 | 22°4 | 11°36 | F 21 | | | | | | | | |
| S 22 | 11 59 0 | 1°30'24 | 20°35 | 4°29 | 15°7 | 14°21 | 9°27 | 16°16 | 24°21 | 18°37 | 9°29 | 5°0 | 3°53 | 22°11 | 11°39 | S 22 | | | | | | | | |
| S 23 | 12 2 56 | 2°30'17 | 4°V12 | 5°14 | 16°21 | 15°7 | 9°38 | 16°13 | 24°20 | 18°37 | 9°30 | 4°58 | 3°49 | 22°17 | 11°42 | S 23 | | | | | | | | |
| M24 | 12 6 53 | 3°30'07 | 18°6 | 6°4 | 17°36 | 15°54 | 9°49 | 16°10 | 24°19 | 18°37 | 9°32 | 4°55 | 3°46 | 22°24 | 11°45 | M24 | | | | | | | | |
| T 25 | 12 10 49 | 4°29'56 | 2♌15 | 6°56 | 18°51 | 16°40 | 9°59 | 16°8 | 24°18 | 18°37 | 9°33 | 4°50 | 3°43 | 22°31 | 11°48 | T 25 | | | | | | | | |
| W26 | 12 14 46 | 5°29'42 | 16°32 | 7°51 | 20°5 | 17°26 | 10°10 | 16°6 | 24°16 | 18°37 | 9°35 | 4°46 | 3°40 | 22°37 | 11°52 | W26 | | | | | | | | |
| T 27 | 12 18 43 | 6°29'26 | 0♏54 | 8°50 | 21°20 | 18°12 | 10°21 | 16°3 | 24°15 | 18°37 | 9°36 | 4°41 | 3°37 | 22°44 | 11°55 | T 27 | | | | | | | | |
| F 28 | 12 22 39 | 7°29'09 | 15°15 | 9°51 | 22°34 | 18°59 | 10°31 | 16°1 | 24°14 | 18°36 | 9°38 | 4°38 | 3°34 | 22°51 | 11°58 | F 28 | | | | | | | | |
| S 29 | 12 26 36 | 8°28'48 | 29°32 | 10°54 | 23°49 | 19°45 | 10°42 | 15°59 | 24°12 | 18°36 | 9°39 | 4°36 | 3°30 | 22°58 | 12°1 | S 29 | | | | | | | | |
| S 30 | 12 30 32 | 9°28'26 | 13♉41 | 12°0 | 25°3 | 20°31 | 10°52 | 15°57 | 24°11 | 18°D36 | 9°41 | 4°D36 | 3°27 | 23°4 | 12°4 | S 30 | | | | | | | | |
| M31 | 12 34 29 | 10°V28'01 | 27♉42 | 13♋9 | 26♋18 | 21°V17 | 11♌3 | 15°D55 | 24♎9 | 18°D36 | 9°V42 | 4♋37 | 3♋24 | 23♌11 | 12♈8 | M31 | | | | | | | | |

Delta T = 18m04s

APRIL 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------|--------|-------|-------|-------|-------|--------|-------|--------|--------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| T 1 | 12 38 25 | 11°V27'34 | 11♏32 | 14♋19 | 27♋32 | 22°V3 | 11♌13 | 15°R54 | 24°R7 | 18♉37 | 9°V44 | 4♋39 | 3♋21 | 23♌18 | 12♈11 | T 1 | | | | | | | | |
| W 2 | 12 42 22 | 12°27'05 | 25°13 | 15°32 | 28°47 | 22°49 | 11°23 | 15°D52 | 24♎6 | 18°37 | 9°45 | 4°40 | 3°18 | 23°24 | 12°14 | W 2 | | | | | | | | |
| T 3 | 12 46 18 | 13°26'33 | 8♎42 | 16°46 | 0°V1 | 23°35 | 11°33 | 15°50 | 24°4 | 18°37 | 9°47 | 4°R40 | 3°14 | 23°31 | 12°18 | T 3 | | | | | | | | |
| F 4 | 12 50 15 | 14°25'59 | 22°1 | 18°3 | 1°15 | 24°21 | 11°43 | 15°49 | 24°2 | 18°37 | 9°48 | 4°39 | 3°11 | 23°38 | 12°21 | F 4 | | | | | | | | |
| S 5 | 12 54 12 | 15°25'23 | 5♌8 | 19°21 | 2°30 | 25°7 | 11°52 | 15°48 | 24°1 | 18°37 | 9°50 | 4°35 | 3°8 | 23°45 | 12°24 | S 5 | | | | | | | | |
| S 6 | 12 58 8 | 16°24'45 | 18°2 | 20°41 | 3°44 | 25°52 | 12°2 | 15°47 | 23°59 | 18°37 | 9°51 | 4°30 | 3°5 | 23°51 | 12°28 | S 6 | | | | | | | | |
| M 7 | 13 2 5 | 17°24'05 | 0♎43 | 22°3 | 4°59 | 26°38 | 12°11 | 15°45 | 23°57 | 18°38 | 9°53 | 4°23 | 3°2 | 23°58 | 12°31 | M 7 | | | | | | | | |
| T 8 | 13 6 1 | 18°23'23 | 13°12 | 23°27 | 6°13 | 27°24 | 12°21 | 15°44 | 23°55 | 18°38 | 9°54 | 4°15 | 2°59 | 24°5 | 12°35 | T 8 | | | | | | | | |
| W 9 | 13 9 58 | 19°22'40 | 25°28 | 24°52 | 7°27 | 28°9 | 12°30 | 15°44 | 23°53 | 18°38 | 9°56 | 4°7 | 2°55 | 24°11 | 12°38 | W 9 | | | | | | | | |
| T 10 | 13 13 54 | 20°21'54 | 7♌33 | 26°19 | 8°42 | 28°55 | 12°39 | 15°43 | 23°51 | 18°39 | 9°57 | 3°59 | 2°52 | 24°18 | 12°42 | T 10 | | | | | | | | |
| F 11 | 13 17 51 | 21°21'07 | 19°31 | 27°47 | 9°56 | 29°41 | 12°48 | 15°42 | 23°49 | 18°39 | 9°59 | 3°52 | 2°49 | 24°25 | 12°45 | F 11 | | | | | | | | |
| S 12 | 13 21 47 | 22°20'17 | 1♊23 | 29°17 | 11°11 | 0♉26 | 12°57 | 15°41 | 23°47 | 18°39 | 10°0 | 3°48 | 2°46 | 24°32 | 12°49 | S 12 | | | | | | | | |
| S 13 | 13 25 44 | 23°19'26 | 13°15 | 0°V49 | 12°25 | 1°12 | 13°6 | 15°41 | 23°45 | 18°40 | 10°2 | 3°45 | 2°43 | 24°38 | 12°52 | S 13 | | | | | | | | |
| M14 | 13 29 41 | 24°18'34 | 25°10 | 2°22 | 13°39 | 1°57 | 13°14 | 15°41 | 23°43 | 18°40 | 10°3 | 3°D45 | 2°40 | 24°45 | 12°56 | M14 | | | | | | | | |
| T 15 | 13 33 37 | 25°17'39 | 7♌15 | 3°56 | 14°54 | 2°43 | 13°23 | 15°40 | 23°41 | 18°41 | 10°5 | 3°45 | 2°36 | 24°52 | 12°59 | T 15 | | | | | | | | |
| W16 | 13 37 34 | 26°16'43 | 19°34 | 5°32 | 16°8 | 3°28 | 13°31 | 15°40 | 23°39 | 18°42 | 10°6 | 3°46 | 2°33 | 24°58 | 13°3 | W16 | | | | | | | | |
| T 17 | 13 41 30 | 27°15'45 | 2♋11 | 7°10 | 17°22 | 4°13 | 13°40 | 15°D40 | 23°37 | 18°42 | 10°7 | 3°R47 | 2°30 | 25°5 | 13°7 | T 17 | | | | | | | | |
| F 18 | 13 45 27 | 28°14'45 | 15°12 | 8°49 | 18°37 | 4°58 | 13°48 | 15°40 | 23°34 | 18°43 | 10°9 | 3°47 | 2°27 | 25°12 | 13°10 | F 18 | | | | | | | | |
| S 19 | 13 49 23 | 29°13'43 | 28°38 | 10°29 | 19°51 | 5°44 | 13°56 | 15°41 | 23°32 | 18°43 | 10°10 | 3°44 | 2°24 | 25°19 | 13°14 | S 19 | | | | | | | | |
| S 20 | 13 53 20 | 0♉12'40 | 12°V30 | 12°11 | 21°5 | 6°29 | 14°3 | 15°41 | 23°30 | 18°44 | 10°12 | 3°39 | 2°20 | 25°25 | 13°18 | S 20 | | | | | | | | |
| M21 | 13 57 16 | 1°11'34 | 26°45 | 13°55 | 22°19 | 7°14 | 14°11 | 15°41 | 23°28 | 18°45 | 10°13 | 3°32 | 2°17 | 25°32 | 13°21 | M21 | | | | | | | | |
| T 22 | 14 1 13 | 2°10'27 | 11♌19 | 15°40 | 23°34 | 7°59 | 14°19 | 15°42 | 23°25 | 18°46 | 10°15 | 3°23 | 2°14 | 25°39 | 13°25 | T 22 | | | | | | | | |
| W23 | 14 5 10 | 3°9'18 | 26°5 | 17°27 | 24°48 | 8°44 | 14°26 | 15°42 | 23°23 | 18°46 | 10°16 | 3°13 | 2°11 | 25°45 | 13°29 | W23 | | | | | | | | |
| T 24 | 14 9 6 | 4°8'06 | 10♏54 | 19°15 | 26°2 | 9°29 | 14°33 | 15°43 | 23°21 | 18°47 | 10°17 | 3°5 | 2°8 | 25°52 | 13°32 | T 24 | | | | | | | | |
| F 25 | 14 13 3 | 5°6'53 | 25°38 | 21°5 | 27°16 | 10°14 | 14°40 | 15°44 | 23°18 | 18°48 | 10°19 | 2°57 | 2°5 | 25°59 | 13°36 | F 25 | | | | | | | | |
| S 26 | 14 16 59 | 6°5'37 | 10♉11 | 22°56 | 28°31 | 10°59 | 14°47 | 15°45 | 23°16 | 18°49 | 10°20 | 2°52 | 2°1 | 26°6 | 13°40 | S 26 | | | | | | | | |
| S 27 | 14 20 56 | 7°4'20 | 24°28 | 24°49 | 29°45 | 11°44 | 14°54 | 15°46 | 23°14 | 18°50 | 10°22 | 2°50 | 1°58 | 26°12 | 13°43 | S 27 | | | | | | | | |
| M28 | 14 24 52 | 8°2'59 | 8♏27 | 26°44 | 0♉59 | 12°29 | 15°1 | 15°47 | 23°11 | 18°51 | 10°23 | 2°D49 | 1°55 | 26°19 | 13°47 | M28 | | | | | | | | |
| T 29 | 14 28 49 | 9°1'37 | 22°9 | 28°40 | 2°13 | 13°13 | 15°7 | 15°49 | 23°9 | 18°52 | 10°24 | 2°50 | 1°52 | 26°26 | 13°51 | T 29 | | | | | | | | |
| W30 | 14 32 45 | 10♉0'12 | 5♎34 | 0♉37 | 3♉27 | 13♉58 | 15♌14 | 15°D50 | 23♎6 | 18°D53 | 10°V26 | 2°R50 | 1♋49 | 26♌32 | 13♈55 | W30 | | | | | | | | |

Delta T = 18m04s

ASTRODIENST EPHEMERIS for the year 2566
geocentric

MAY 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|-------|------|-----|
| T 1 | 14 36 42 | 10♌58'46 | 18♎44 | 2♃37 | 4♄42 | 14♌43 | 15♍20 | 15♎52 | 23°R 4 | 18♏54 | 10♐27 | 2°R49 | 1♋46 | 26♌39 | 13♌58 | T 1 | |
| F 2 | 14 40 39 | 11°57'16 | 1♌41 | 4°37 | 5°56 | 15°27 | 15°26 | 15°53 | 23♎ 1 | 18°55 | 10°28 | 2♋46 | 1°42 | 26°46 | 14° 2 | F 2 | |
| S 3 | 14 44 35 | 12°55'45 | 14°27 | 6°39 | 7°10 | 16°12 | 15°32 | 15°55 | 22°59 | 18°56 | 10°30 | 2°39 | 1°39 | 26°53 | 14° 6 | S 3 | |
| S 4 | 14 48 32 | 13°54'12 | 27° 3 | 8°43 | 8°24 | 16°56 | 15°38 | 15°57 | 22°57 | 18°57 | 10°31 | 2°31 | 1°36 | 26°59 | 14°10 | S 4 | |
| M 5 | 14 52 28 | 14°52'38 | 9♎28 | 10°48 | 9°38 | 17°41 | 15°43 | 15°59 | 22°54 | 18°58 | 10°32 | 2°19 | 1°33 | 27° 6 | 14°13 | M 5 | |
| T 6 | 14 56 25 | 15°51'01 | 21°45 | 12°54 | 10°52 | 18°25 | 15°49 | 16° 1 | 22°52 | 19° 0 | 10°33 | 2° 7 | 1°30 | 27°13 | 14°17 | T 6 | |
| W 7 | 15 0 21 | 16°49'22 | 3♌53 | 15° 1 | 12° 6 | 19° 9 | 15°54 | 16° 3 | 22°49 | 19° 1 | 10°35 | 1°54 | 1°26 | 27°19 | 14°21 | W 7 | |
| T 8 | 15 4 18 | 17°47'42 | 15°53 | 17° 9 | 13°20 | 19°53 | 15°59 | 16° 5 | 22°46 | 19° 2 | 10°36 | 1°41 | 1°23 | 27°26 | 14°25 | T 8 | |
| F 9 | 15 8 14 | 18°46'00 | 27°47 | 19°17 | 14°34 | 20°38 | 16° 4 | 16° 7 | 22°44 | 19° 3 | 10°37 | 1°30 | 1°20 | 27°33 | 14°28 | F 9 | |
| S 10 | 15 12 11 | 19°44'17 | 9♌38 | 21°27 | 15°48 | 21°22 | 16° 9 | 16°10 | 22°41 | 19° 5 | 10°38 | 1°22 | 1°17 | 27°39 | 14°32 | S 10 | |
| S 11 | 15 16 8 | 20°42'32 | 21°28 | 23°36 | 17° 2 | 22° 6 | 16°13 | 16°12 | 22°39 | 19° 6 | 10°40 | 1°16 | 1°14 | 27°46 | 14°36 | S 11 | |
| M12 | 15 20 4 | 21°40'46 | 3♍23 | 25°46 | 18°16 | 22°50 | 16°18 | 16°15 | 22°36 | 19° 7 | 10°41 | 1°13 | 1°11 | 27°53 | 14°39 | M12 | |
| T 13 | 15 24 1 | 22°38'58 | 15°25 | 27°55 | 19°30 | 23°34 | 16°22 | 16°18 | 22°34 | 19° 9 | 10°42 | 1°12 | 1° 7 | 28° 0 | 14°43 | T 13 | |
| W14 | 15 27 57 | 23°37'08 | 27°41 | 0♐ 4 | 20°44 | 24°18 | 16°26 | 16°20 | 22°31 | 19°10 | 10°43 | 1°11 | 1° 4 | 28° 6 | 14°47 | W14 | |
| T 15 | 15 31 54 | 24°35'17 | 10♋16 | 2°12 | 21°58 | 25° 2 | 16°30 | 16°23 | 22°29 | 19°11 | 10°44 | 1°11 | 1° 1 | 28°13 | 14°51 | T 15 | |
| F 16 | 15 35 50 | 25°33'25 | 23°15 | 4°19 | 23°12 | 25°46 | 16°34 | 16°26 | 22°26 | 19°13 | 10°46 | 1°10 | 0°58 | 28°20 | 14°54 | F 16 | |
| S 17 | 15 39 47 | 26°31'31 | 6♐41 | 6°25 | 24°26 | 26°30 | 16°37 | 16°30 | 22°24 | 19°14 | 10°47 | 1° 7 | 0°55 | 28°26 | 14°58 | S 17 | |
| S 18 | 15 43 43 | 27°29'36 | 20°36 | 8°29 | 25°40 | 27°13 | 16°41 | 16°33 | 22°21 | 19°16 | 10°48 | 1° 1 | 0°51 | 28°33 | 15° 2 | S 18 | |
| M19 | 15 47 40 | 28°27'40 | 4♌59 | 10°31 | 26°54 | 27°57 | 16°44 | 16°36 | 22°19 | 19°17 | 10°49 | 0°52 | 0°48 | 28°40 | 15° 5 | M19 | |
| T 20 | 15 51 37 | 29°25'42 | 19°47 | 12°31 | 28° 8 | 28°41 | 16°47 | 16°40 | 22°16 | 19°19 | 10°50 | 0°42 | 0°45 | 28°47 | 15° 9 | T 20 | |
| W21 | 15 55 33 | 0♐23'42 | 4♐50 | 14°28 | 29°22 | 29°24 | 16°50 | 16°43 | 22°14 | 19°21 | 10°51 | 0°30 | 0°42 | 28°53 | 15°13 | W21 | |
| T 22 | 15 59 30 | 1°21'42 | 20° 0 | 16°23 | 0♐36 | 0♐ 8 | 16°52 | 16°47 | 22°11 | 19°22 | 10°52 | 0°20 | 0°39 | 29° 0 | 15°16 | T 22 | |
| F 23 | 16 3 26 | 2°19'39 | 5♌ 5 | 18°15 | 1°50 | 0°51 | 16°55 | 16°50 | 22° 9 | 19°24 | 10°53 | 0°11 | 0°36 | 29° 7 | 15°20 | F 23 | |
| S 24 | 16 7 23 | 3°17'35 | 19°57 | 20° 4 | 3° 4 | 1°35 | 16°57 | 16°54 | 22° 6 | 19°25 | 10°54 | 0° 4 | 0°32 | 29°13 | 15°24 | S 24 | |
| S 25 | 16 11 19 | 4°15'29 | 4♎29 | 21°51 | 4°18 | 2°18 | 16°59 | 16°58 | 22° 4 | 19°27 | 10°55 | 0° 0 | 0°29 | 29°20 | 15°27 | S 25 | |
| M26 | 16 15 16 | 5°13'22 | 18°37 | 23°34 | 5°32 | 3° 2 | 17° 1 | 17° 2 | 22° 1 | 19°29 | 10°56 | 29♌59 | 0°26 | 29°27 | 15°31 | M26 | |
| T 27 | 16 19 12 | 6°11'12 | 2♎22 | 25°14 | 6°46 | 3°45 | 17° 3 | 17° 6 | 21°59 | 19°31 | 10°57 | 29°59 | 0°23 | 29°34 | 15°34 | T 27 | |
| W28 | 16 23 9 | 7° 9'01 | 15°44 | 26°51 | 7°59 | 4°28 | 17° 4 | 17°10 | 21°56 | 19°32 | 10°58 | 29°59 | 0°20 | 29°40 | 15°38 | W28 | |
| T 29 | 16 27 6 | 8° 6'48 | 28°46 | 28°24 | 9°13 | 5°11 | 17° 5 | 17°14 | 21°54 | 19°34 | 10°59 | 29°57 | 0°17 | 29°47 | 15°41 | T 29 | |
| F 30 | 16 31 2 | 9° 4'33 | 11♌31 | 29°54 | 10°27 | 5°54 | 17° 6 | 17°19 | 21°51 | 19°36 | 11° 0 | 29°54 | 0°13 | 29°54 | 15°45 | F 30 | |
| S 31 | 16 34 59 | 10♐ 2'17 | 24♌ 3 | 1♌21 | 11♐41 | 6♐37 | 17♌ 7 | 17♎23 | 21♎49 | 19♏38 | 11♐ 1 | 29♌48 | 0♋10 | 0♌ 0 | 15♌48 | S 31 | |

Delta T = 18m04s

JUNE 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|--------|-------|-------|--------|-------|------|-------|------|-----|
| S 1 | 16 38 55 | 11♐ 0'00 | 6♎24 | 2♌44 | 12♐55 | 7♐21 | 17♌ 8 | 17♎27 | 21°R47 | 19♏39 | 11♐ 2 | 29°R39 | 0♋ 7 | 0♌ 7 | 15♌52 | S 1 | |
| M 2 | 16 42 52 | 11°57'41 | 18°37 | 4° 3 | 14° 9 | 8° 3 | 17° 9 | 17°32 | 21♎44 | 19°41 | 11° 2 | 29♌28 | 0° 4 | 0°14 | 15°55 | M 2 | |
| T 3 | 16 46 48 | 12°55'20 | 0♌42 | 5°19 | 15°22 | 8°46 | 17° 9 | 17°37 | 21°42 | 19°43 | 11° 3 | 29°15 | 0° 1 | 0°20 | 15°59 | T 3 | |
| W 4 | 16 50 45 | 13°52'59 | 12°41 | 6°32 | 16°36 | 9°29 | 17°R 9 | 17°41 | 21°40 | 19°45 | 11° 4 | 29° 2 | 29♌57 | 0°27 | 16° 2 | W 4 | |
| T 5 | 16 54 42 | 14°50'36 | 24°36 | 7°41 | 17°50 | 10°12 | 17° 9 | 17°46 | 21°37 | 19°47 | 11° 5 | 28°49 | 29°54 | 0°34 | 16° 6 | T 5 | |
| F 6 | 16 58 38 | 15°48'12 | 6♌28 | 8°46 | 19° 4 | 10°55 | 17° 9 | 17°51 | 21°35 | 19°49 | 11° 6 | 28°38 | 29°51 | 0°41 | 16° 9 | F 6 | |
| S 7 | 17 2 35 | 16°45'47 | 18°18 | 9°47 | 20°18 | 11°38 | 17° 9 | 17°56 | 21°33 | 19°51 | 11° 6 | 28°29 | 29°48 | 0°47 | 16°12 | S 7 | |
| S 8 | 17 6 31 | 17°43'21 | 0♍ 9 | 10°45 | 21°31 | 12°20 | 17° 8 | 18° 1 | 21°31 | 19°53 | 11° 7 | 28°23 | 29°45 | 0°54 | 16°16 | S 8 | |
| M 9 | 17 10 28 | 18°40'54 | 12° 5 | 11°38 | 22°45 | 13° 3 | 17° 7 | 18° 6 | 21°29 | 19°55 | 11° 8 | 28°20 | 29°42 | 1° 1 | 16°19 | M 9 | |
| T 10 | 17 14 24 | 19°38'26 | 24° 8 | 12°28 | 23°59 | 13°45 | 17° 6 | 18°11 | 21°27 | 19°57 | 11° 8 | 28°D19 | 29°38 | 1° 7 | 16°22 | T 10 | |
| W11 | 17 18 21 | 20°35'58 | 6♋24 | 13°13 | 25°13 | 14°28 | 17° 5 | 18°16 | 21°24 | 19°59 | 11° 9 | 28°19 | 29°35 | 1°14 | 16°25 | W11 | |
| T 12 | 17 22 17 | 21°33'28 | 18°57 | 13°55 | 26°26 | 15°10 | 17° 4 | 18°22 | 21°22 | 20° 1 | 11°10 | 28°R19 | 29°32 | 1°21 | 16°29 | T 12 | |
| F 13 | 17 26 14 | 22°30'58 | 1♐52 | 14°32 | 27°40 | 15°53 | 17° 2 | 18°27 | 21°20 | 20° 3 | 11°10 | 28°19 | 29°29 | 1°27 | 16°32 | F 13 | |
| S 14 | 17 30 11 | 23°28'27 | 15°13 | 15° 5 | 28°54 | 16°35 | 17° 1 | 18°32 | 21°18 | 20° 5 | 11°11 | 28°17 | 29°26 | 1°34 | 16°35 | S 14 | |
| S 15 | 17 34 7 | 24°25'56 | 29° 4 | 15°33 | 0♌ 8 | 17°17 | 16°59 | 18°38 | 21°16 | 20° 7 | 11°12 | 28°13 | 29°23 | 1°41 | 16°38 | S 15 | |
| M16 | 17 38 4 | 25°23'23 | 13♌23 | 15°57 | 1°21 | 18° 0 | 16°57 | 18°43 | 21°14 | 20° 9 | 11°12 | 28° 6 | 29°19 | 1°48 | 16°41 | M16 | |
| T 17 | 17 42 0 | 26°20'51 | 28° 9 | 16°17 | 2°35 | 18°42 | 16°54 | 18°49 | 21°12 | 20°11 | 11°13 | 27°58 | 29°16 | 1°54 | 16°44 | T 17 | |
| W18 | 17 45 57 | 27°18'17 | 13♐14 | 16°32 | 3°49 | 19°24 | 16°52 | 18°55 | 21°10 | 20°13 | 11°13 | 27°49 | 29°13 | 2° 1 | 16°47 | W18 | |
| T 19 | 17 49 53 | 28°15'43 | 28°30 | 16°42 | 5° 3 | 20° 6 | 16°49 | 19° 1 | 21° 9 | 20°15 | 11°14 | 27°41 | 29°10 | 2° 8 | 16°50 | T 19 | |
| F 20 | 17 53 50 | 29°13'09 | 13♌46 | 16°48 | 6°16 | 20°48 | 16°46 | 19° 6 | 21° 7 | 20°17 | 11°14 | 27°33 | 29° 7 | 2°14 | 16°53 | F 20 | |
| S 21 | 17 57 46 | 0♌10'33 | 28°51 | 16°R50 | 7°30 | 21°30 | 16°43 | 19°12 | 21° 5 | 20°19 | 11°15 | 27°28 | 29° 4 | 2°21 | 16°56 | S 21 | |
| S 22 | 18 1 43 | 1° 7'56 | 13♎36 | 16°46 | 8°44 | 22°12 | 16°40 | 19°18 | 21° 3 | 20°21 | 11°15 | 27°25 | 29° 0 | 2°28 | 16°59 | S 22 | |
| M23 | 18 5 40 | 2° 5'19 | 27°56 | 16°39 | 9°57 | 22°54 | 16°37 | 19°24 | 21° 1 | 20°23 | 11°16 | 27°D25 | 28°57 | 2°34 | 17° 2 | M23 | |
| T 24 | 18 9 36 | 3° 2'40 | 11♎49 | 16°27 | 11°11 | 23°36 | 16°33 | 19°30 | 21° 0 | 20°26 | 11°16 | 27°25 | 28°54 | 2°41 | 17° 5 | T 24 | |
| W25 | 18 13 33 | 4° 0'00 | 25°16 | 16°11 | 12°25 | 24°18 | 16°30 | 19°37 | 20°58 | 20°28 | 11°16 | 27°26 | 28°51 | 2°48 | 17° 8 | W25 | |
| T 26 | 18 17 29 | 4°57'20 | 8♌19 | 15°51 | 13°38 | 24°59 | 16°26 | 19°43 | 20°57 | 20°30 | 11°17 | 27°R26 | 28°48 | 2°55 | 17°11 | T 26 | |
| F 27 | 18 21 26 | 5°54'39 | 21° 2 | 15°28 | 14°52 | 25°41 | 16°22 | 19°49 | 20°55 | 20°32 | 11°17 | 27°25 | 28°44 | 3° 1 | 17°13 | F 27 | |
| S 28 | 18 25 22 | 6°51'56 | 3♎29 | 15° 2 | 16° 6 | 26°23 | 16°17 | 19°55 | 20°53 | 20°34 | 11°17 | 27°22 | 28°41 | 3° 8 | 17°16 | S 28 | |
| S 29 | 18 29 19 | 7°49'14 | 15°42 | 14°33 | 17°19 | 27° 4 | 16°13 | 20° 2 | 20°52 | 20°36 | 11°18 | 27°16 | 28°38 | 3°15 | 17°19 | S 29 | |
| M30 | 18 33 15 | 8♌46'30 | 27♎47 | 14♌ 1 | 18♌33 | 27♐46 | 16♌ 9 | 20♎ 8 | 20♎51 | 20♏39 | 11♐18 | 27♌ 9 | 28♌35 | 3♌21 | 17♌21 | M30 | |

Delta T = 18m05s

ASTRODIENST EPHEMERIS for the year 2566
geocentric

JULY 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♂ | Day |
|------|----------|----------|--------|--------|-------|-------|--------|-------|--------|-------|--------|--------|-------|------|-------|------|
| T 1 | 18 37 12 | 9♄43'46 | 9♄44 | 13°R28 | 19♄47 | 28♂27 | 16°R 4 | 20♂14 | 20°R49 | 20♄41 | 11°V18 | 27°R 1 | 28♂32 | 3♄28 | 17♂24 | T 1 |
| W 2 | 18 41 9 | 10°41'01 | 21°38 | 12♄54 | 21° 0 | 29° 9 | 15♂59 | 20°21 | 20♂48 | 20°43 | 11°18 | 26♂52 | 28°29 | 3°35 | 17°27 | W 2 |
| T 3 | 18 45 5 | 11°38'16 | 3♄29 | 12°19 | 22°14 | 29°50 | 15°54 | 20°28 | 20°47 | 20°45 | 11°19 | 26°44 | 28°25 | 3°41 | 17°29 | T 3 |
| F 4 | 18 49 2 | 12°35'31 | 15°20 | 11°44 | 23°28 | 0♄32 | 15°49 | 20°34 | 20°45 | 20°47 | 11°19 | 26°37 | 28°22 | 3°48 | 17°32 | F 4 |
| S 5 | 18 52 58 | 13°32'45 | 27°13 | 11° 9 | 24°41 | 1°13 | 15°43 | 20°41 | 20°44 | 20°50 | 11°19 | 26°31 | 28°19 | 3°55 | 17°34 | S 5 |
| S 6 | 18 56 55 | 14°29'59 | 9♂ 9 | 10°36 | 25°55 | 1°54 | 15°38 | 20°48 | 20°43 | 20°52 | 11°19 | 26°28 | 28°16 | 4° 2 | 17°36 | S 6 |
| M 7 | 19 0 51 | 15°27'12 | 21°10 | 10° 5 | 27° 9 | 2°35 | 15°32 | 20°54 | 20°42 | 20°54 | 11°19 | 26°D26 | 28°13 | 4° 8 | 17°39 | M 7 |
| T 8 | 19 4 48 | 16°24'26 | 3♄20 | 9°35 | 28°22 | 3°16 | 15°27 | 21° 1 | 20°41 | 20°56 | 11°19 | 26°26 | 28°10 | 4°15 | 17°41 | T 8 |
| W 9 | 19 8 45 | 17°21'39 | 15°42 | 9° 9 | 29°36 | 3°58 | 15°21 | 21° 8 | 20°40 | 20°58 | 11°19 | 26°28 | 28° 6 | 4°22 | 17°43 | W 9 |
| T 10 | 19 12 41 | 18°18'53 | 28°19 | 8°46 | 0♂49 | 4°39 | 15°15 | 21°15 | 20°39 | 21° 1 | 11°19 | 26°29 | 28° 3 | 4°28 | 17°46 | T 10 |
| F 11 | 19 16 38 | 19°16'06 | 11°V15 | 8°26 | 2° 3 | 5°20 | 15° 9 | 21°22 | 20°38 | 21° 3 | 11°R19 | 26°30 | 28° 0 | 4°35 | 17°48 | F 11 |
| S 12 | 19 20 34 | 20°13'20 | 24°33 | 8°11 | 3°17 | 6° 1 | 15° 2 | 21°29 | 20°37 | 21° 5 | 11°19 | 26°R30 | 27°57 | 4°42 | 17°50 | S 12 |
| S 13 | 19 24 31 | 21°10'34 | 8♂16 | 8° 0 | 4°30 | 6°41 | 14°56 | 21°36 | 20°36 | 21° 7 | 11°19 | 26°29 | 27°54 | 4°48 | 17°52 | S 13 |
| M14 | 19 28 27 | 22° 7'49 | 22°25 | 7°53 | 5°44 | 7°22 | 14°49 | 21°43 | 20°35 | 21°10 | 11°19 | 26°27 | 27°50 | 4°55 | 17°54 | M14 |
| T 15 | 19 32 24 | 23° 5'03 | 6♂59 | 7°D51 | 6°57 | 8° 3 | 14°43 | 21°50 | 20°35 | 21°12 | 11°19 | 26°23 | 27°47 | 5° 2 | 17°56 | T 15 |
| W16 | 19 36 20 | 24° 2'19 | 21°52 | 7°54 | 8°11 | 8°44 | 14°36 | 21°57 | 20°34 | 21°14 | 11°19 | 26°18 | 27°44 | 5° 9 | 17°58 | W16 |
| T 17 | 19 40 17 | 24°59'34 | 6♄59 | 8° 3 | 9°24 | 9°25 | 14°29 | 22° 4 | 20°33 | 21°16 | 11°19 | 26°14 | 27°41 | 5°15 | 18° 0 | T 17 |
| F 18 | 19 44 14 | 25°56'49 | 22° 9 | 8°16 | 10°38 | 10° 5 | 14°22 | 22°11 | 20°33 | 21°19 | 11°19 | 26°10 | 27°38 | 5°22 | 18° 2 | F 18 |
| S 19 | 19 48 10 | 26°54'05 | 7♂13 | 8°35 | 11°52 | 10°46 | 14°15 | 22°18 | 20°32 | 21°21 | 11°19 | 26° 8 | 27°35 | 5°29 | 18° 4 | S 19 |
| S 20 | 19 52 7 | 27°51'20 | 22° 1 | 8°58 | 13° 5 | 11°27 | 14° 8 | 22°26 | 20°32 | 21°23 | 11°18 | 26°D 7 | 27°31 | 5°35 | 18° 6 | S 20 |
| M21 | 19 56 3 | 28°48'36 | 6♂28 | 9°28 | 14°19 | 12° 7 | 14° 1 | 22°33 | 20°31 | 21°25 | 11°18 | 26° 7 | 27°28 | 5°42 | 18° 7 | M21 |
| T 22 | 20 0 0 | 29°45'51 | 20°29 | 10° 2 | 15°32 | 12°48 | 13°54 | 22°40 | 20°31 | 21°27 | 11°18 | 26° 8 | 27°25 | 5°49 | 18° 9 | T 22 |
| W23 | 20 3 56 | 0♂43'07 | 4♄ 4 | 10°41 | 16°46 | 13°28 | 13°46 | 22°48 | 20°30 | 21°30 | 11°18 | 26°10 | 27°22 | 5°55 | 18°11 | W23 |
| T 24 | 20 7 53 | 1°40'22 | 17°13 | 11°26 | 17°59 | 14° 8 | 13°39 | 22°55 | 20°30 | 21°32 | 11°17 | 26°11 | 27°19 | 6° 2 | 18°12 | T 24 |
| F 25 | 20 11 49 | 2°37'38 | 29°59 | 12°15 | 19°13 | 14°49 | 13°32 | 23° 2 | 20°30 | 21°34 | 11°17 | 26°R12 | 27°15 | 6° 9 | 18°14 | F 25 |
| S 26 | 20 15 46 | 3°34'53 | 12♂25 | 13°10 | 20°26 | 15°29 | 13°24 | 23°10 | 20°30 | 21°36 | 11°17 | 26°11 | 27°12 | 6°15 | 18°15 | S 26 |
| S 27 | 20 19 43 | 4°32'09 | 24°37 | 14°10 | 21°40 | 16° 9 | 13°17 | 23°17 | 20°30 | 21°38 | 11°17 | 26°10 | 27° 9 | 6°22 | 18°17 | S 27 |
| M28 | 20 23 39 | 5°29'25 | 6♄39 | 15°14 | 22°53 | 16°50 | 13° 9 | 23°25 | 20°29 | 21°41 | 11°16 | 26° 8 | 27° 6 | 6°29 | 18°18 | M28 |
| T 29 | 20 27 36 | 6°26'41 | 18°33 | 16°24 | 24° 7 | 17°30 | 13° 1 | 23°32 | 20°D29 | 21°43 | 11°16 | 26° 5 | 27° 3 | 6°36 | 18°19 | T 29 |
| W30 | 20 31 32 | 7°23'58 | 0♄24 | 17°38 | 25°20 | 18°10 | 12°54 | 23°40 | 20°30 | 21°45 | 11°15 | 26° 2 | 27° 0 | 6°42 | 18°21 | W30 |
| T 31 | 20 35 29 | 8♂21'15 | 12♄15 | 18♄57 | 26♂34 | 18♄50 | 12♄46 | 23♂47 | 20♂30 | 21♄47 | 11°V15 | 25♂59 | 26♂56 | 6♄49 | 18♂22 | T 31 |

Delta T = 18m05s

AUGUST 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|-------|--------|------|
| F 1 | 20 39 25 | 9♂18'32 | 24♄ 9 | 20♄20 | 27♂47 | 19♄30 | 12°R38 | 23♂55 | 20♂30 | 21♄49 | 11°R15 | 25°R57 | 26♂53 | 6♄56 | 18♂23 | F 1 |
| S 2 | 20 43 22 | 10°15'49 | 6♂ 7 | 21°48 | 29° 1 | 20°10 | 12♂30 | 24° 2 | 20°30 | 21°51 | 11°V14 | 25♂55 | 26°50 | 7° 2 | 18°24 | S 2 |
| S 3 | 20 47 18 | 11°13'08 | 18°11 | 23°20 | 0♂14 | 20°50 | 12°23 | 24°10 | 20°30 | 21°54 | 11°14 | 25°55 | 26°47 | 7° 9 | 18°25 | S 3 |
| M 4 | 20 51 15 | 12°10'26 | 0♄24 | 24°56 | 1°27 | 21°30 | 12°15 | 24°17 | 20°30 | 21°56 | 11°13 | 25°D54 | 26°44 | 7°16 | 18°26 | M 4 |
| T 5 | 20 55 12 | 13° 7'46 | 12°47 | 26°37 | 2°41 | 22°10 | 12° 7 | 24°25 | 20°31 | 21°58 | 11°13 | 25°55 | 26°41 | 7°22 | 18°27 | T 5 |
| W 6 | 20 59 8 | 14° 5'06 | 25°22 | 28°21 | 3°54 | 22°49 | 11°59 | 24°33 | 20°31 | 22° 0 | 11°12 | 25°56 | 26°37 | 7°29 | 18°28 | W 6 |
| T 7 | 21 3 5 | 15° 2'27 | 8°V11 | 0♂ 8 | 5° 8 | 23°29 | 11°52 | 24°40 | 20°32 | 22° 2 | 11°12 | 25°57 | 26°34 | 7°36 | 18°29 | T 7 |
| F 8 | 21 7 1 | 15°59'49 | 21°16 | 1°58 | 6°21 | 24° 9 | 11°44 | 24°48 | 20°32 | 22° 4 | 11°11 | 25°58 | 26°31 | 7°42 | 18°30 | F 8 |
| S 9 | 21 10 58 | 16°57'12 | 4♄38 | 3°52 | 7°34 | 24°49 | 11°36 | 24°56 | 20°33 | 22° 6 | 11°10 | 25°58 | 26°28 | 7°49 | 18°31 | S 9 |
| S 10 | 21 14 54 | 17°54'36 | 18°19 | 5°48 | 8°48 | 25°28 | 11°28 | 25° 3 | 20°33 | 22° 8 | 11°10 | 25°R59 | 26°25 | 7°56 | 18°31 | S 10 |
| M11 | 21 18 51 | 18°52'02 | 2♂20 | 7°46 | 10° 1 | 26° 8 | 11°21 | 25°11 | 20°34 | 22°10 | 11° 9 | 25°58 | 26°21 | 8° 3 | 18°32 | M11 |
| T 12 | 21 22 47 | 19°49'29 | 16°39 | 9°46 | 11°14 | 26°47 | 11°13 | 25°19 | 20°35 | 22°12 | 11° 8 | 25°58 | 26°18 | 8° 9 | 18°33 | T 12 |
| W13 | 21 26 44 | 20°46'56 | 1♄13 | 11°48 | 12°28 | 27°27 | 11° 5 | 25°26 | 20°35 | 22°14 | 11° 8 | 25°57 | 26°15 | 8°16 | 18°33 | W13 |
| T 14 | 21 30 41 | 21°44'25 | 15°59 | 13°51 | 13°41 | 28° 6 | 10°58 | 25°34 | 20°36 | 22°16 | 11° 7 | 25°57 | 26°12 | 8°23 | 18°34 | T 14 |
| F 15 | 21 34 37 | 22°41'56 | 0♂49 | 15°54 | 14°54 | 28°46 | 10°50 | 25°42 | 20°37 | 22°18 | 11° 6 | 25°57 | 26° 9 | 8°29 | 18°34 | F 15 |
| S 16 | 21 38 34 | 23°39'27 | 15°37 | 17°59 | 16° 8 | 29°25 | 10°43 | 25°49 | 20°38 | 22°20 | 11° 6 | 25°56 | 26° 6 | 8°36 | 18°34 | S 16 |
| S 17 | 21 42 30 | 24°36'59 | 0♂16 | 20° 3 | 17°21 | 0♂ 5 | 10°36 | 25°57 | 20°39 | 22°22 | 11° 5 | 25°D56 | 26° 2 | 8°43 | 18°35 | S 17 |
| M18 | 21 46 27 | 25°34'32 | 14°38 | 22° 7 | 18°34 | 0°44 | 10°28 | 26° 5 | 20°40 | 22°24 | 11° 4 | 25°R56 | 25°59 | 8°49 | 18°35 | M18 |
| T 19 | 21 50 23 | 26°32'06 | 28°39 | 24°11 | 19°47 | 1°23 | 10°21 | 26°13 | 20°41 | 22°26 | 11° 3 | 25°56 | 25°56 | 8°56 | 18°35 | T 19 |
| W20 | 21 54 20 | 27°29'41 | 12♄16 | 26°15 | 21° 1 | 2° 2 | 10°14 | 26°20 | 20°42 | 22°28 | 11° 3 | 25°56 | 25°53 | 9° 3 | 18°35 | W20 |
| T 21 | 21 58 16 | 28°27'16 | 25°29 | 28°17 | 22°14 | 2°41 | 10° 7 | 26°28 | 20°43 | 22°30 | 11° 2 | 25°56 | 25°50 | 9° 9 | 18°35 | T 21 |
| F 22 | 22 2 13 | 29°24'53 | 8♂19 | 0♂19 | 23°27 | 3°21 | 10° 0 | 26°36 | 20°44 | 22°32 | 11° 1 | 25°56 | 25°47 | 9°16 | 18°R35 | F 22 |
| S 23 | 22 6 10 | 0♂22'31 | 20°49 | 2°20 | 24°40 | 4° 0 | 9°53 | 26°43 | 20°46 | 22°34 | 11° 0 | 25°55 | 25°43 | 9°23 | 18°35 | S 23 |
| S 24 | 22 10 6 | 1°20'09 | 3♄ 2 | 4°20 | 25°53 | 4°39 | 9°46 | 26°51 | 20°47 | 22°35 | 10°59 | 25°D55 | 25°40 | 9°29 | 18°35 | S 24 |
| M25 | 22 14 3 | 2°17'49 | 15° 4 | 6°18 | 27° 7 | 5°18 | 9°40 | 26°59 | 20°48 | 22°37 | 10°58 | 25°56 | 25°37 | 9°36 | 18°35 | M25 |
| T 26 | 22 17 59 | 3°15'29 | 26°58 | 8°15 | 28°20 | 5°57 | 9°33 | 27° 6 | 20°50 | 22°39 | 10°57 | 25°56 | 25°34 | 9°43 | 18°35 | T 26 |
| W27 | 22 21 56 | 4°13'11 | 8♄48 | 10°11 | 29°33 | 6°35 | 9°27 | 27°14 | 20°51 | 22°41 | 10°57 | 25°57 | 25°31 | 9°50 | 18°35 | W27 |
| T 28 | 22 25 52 | 5°10'54 | 20°40 | 12° 6 | 0♂46 | 7°14 | 9°20 | 27°22 | 20°53 | 22°43 | 10°56 | 25°58 | 25°27 | 9°56 | 18°34 | T 28 |
| F 29 | 22 29 49 | 6° 8'37 | 2♂37 | 13°59 | 1°59 | 7°53 | 9°14 | 27°29 | 20°54 | 22°44 | 10°55 | 25°59 | 25°24 | 10° 3 | 18°34 | F 29 |
| S 30 | 22 33 45 | 7° 6'22 | 14°42 | 15°51 | 3°12 | 8°32 | 9° 8 | 27°37 | 20°56 | 22°46 | 10°54 | 25°59 | 25°21 | 10°10 | 18°34 | S 30 |
| S 31 | 22 37 42 | 8♂40'8 | 26♂58 | 17♂41 | 4♄25 | 9♂11 | 9♂ 2 | 27♂45 | 20♂58 | 22♄48 | 10°V53 | 26°R 0 | 25♂18 | 10♄16 | 18♂33 | S 31 |

Delta T = 18m05s

ASTRODIENST EPHEMERIS for the year 2566
geocentric

SEPTEMBER 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|-------|-------|-------|--------|--------|-------|-------|--------|------|-----|
| M 1 | 22 41 39 | 9♎1'56 | 9♎25 | 19♎31 | 5♏38 | 9♏49 | 8°R56 | 27♏52 | 20♎59 | 22♏49 | 10°R52 | 25°R59 | 25♏15 | 10♏23 | 18°R33 | M 1 | |
| T 2 | 22 45 35 | 9°59'44 | 22° 7 | 21°18 | 6°51 | 10°28 | 8♏51 | 28° 0 | 21° 1 | 22°51 | 10°Y51 | 25♏58 | 25°12 | 10°30 | 18♏32 | T 2 | |
| W 3 | 22 49 32 | 10°57'35 | 5°Y 2 | 23° 5 | 8° 4 | 11° 7 | 8°45 | 28° 8 | 21° 3 | 22°53 | 10°50 | 25°56 | 25° 8 | 10°36 | 18°32 | W 3 | |
| T 4 | 22 53 28 | 11°55'26 | 18°12 | 24°50 | 9°17 | 11°45 | 8°40 | 28°15 | 21° 5 | 22°54 | 10°49 | 25°54 | 25° 5 | 10°43 | 18°31 | T 4 | |
| F 5 | 22 57 25 | 12°53'20 | 1♏35 | 26°33 | 10°30 | 12°24 | 8°35 | 28°23 | 21° 7 | 22°56 | 10°48 | 25°52 | 25° 2 | 10°50 | 18°30 | F 5 | |
| S 6 | 23 1 21 | 13°51'15 | 15°11 | 28°16 | 11°43 | 13° 2 | 8°30 | 28°30 | 21° 9 | 22°57 | 10°47 | 25°50 | 24°59 | 10°56 | 18°29 | S 6 | |
| S 7 | 23 5 18 | 14°49'12 | 28°59 | 29°57 | 12°56 | 13°41 | 8°25 | 28°38 | 21°11 | 22°59 | 10°46 | 25°49 | 24°56 | 11° 3 | 18°28 | S 7 | |
| M 8 | 23 9 14 | 15°47'11 | 12♐59 | 1♏37 | 14° 9 | 14°19 | 8°20 | 28°45 | 21°13 | 23° 1 | 10°45 | 25°D48 | 24°53 | 11°10 | 18°28 | M 8 | |
| T 9 | 23 13 11 | 16°45'12 | 27° 8 | 3°15 | 15°21 | 14°57 | 8°15 | 28°53 | 21°15 | 23° 2 | 10°44 | 25°48 | 24°49 | 11°16 | 18°27 | T 9 | |
| W10 | 23 17 8 | 17°43'15 | 11♐26 | 4°52 | 16°34 | 15°36 | 8°11 | 29° 0 | 21°17 | 23° 3 | 10°43 | 25°49 | 24°46 | 11°23 | 18°26 | W10 | |
| T 11 | 23 21 4 | 18°41'20 | 25°48 | 6°28 | 17°47 | 16°14 | 8° 7 | 29° 8 | 21°19 | 23° 5 | 10°41 | 25°51 | 24°43 | 11°30 | 18°25 | T 11 | |
| F 12 | 23 25 1 | 19°39'26 | 10♐13 | 8° 3 | 19° 0 | 16°52 | 8° 2 | 29°15 | 21°21 | 23° 6 | 10°40 | 25°52 | 24°40 | 11°36 | 18°23 | F 12 | |
| S 13 | 23 28 57 | 20°37'34 | 24°36 | 9°37 | 20°13 | 17°30 | 7°59 | 29°22 | 21°23 | 23° 8 | 10°39 | 25°R52 | 24°37 | 11°43 | 18°22 | S 13 | |
| S 14 | 23 32 54 | 21°35'44 | 8♎52 | 11° 9 | 21°25 | 18° 9 | 7°55 | 29°30 | 21°26 | 23° 9 | 10°38 | 25°52 | 24°33 | 11°50 | 18°21 | S 14 | |
| M15 | 23 36 50 | 22°33'56 | 22°58 | 12°40 | 22°38 | 18°47 | 7°51 | 29°37 | 21°28 | 23°10 | 10°37 | 25°50 | 24°30 | 11°56 | 18°20 | M15 | |
| T 16 | 23 40 47 | 23°32'09 | 6♏47 | 14°10 | 23°51 | 19°25 | 7°48 | 29°44 | 21°30 | 23°12 | 10°36 | 25°47 | 24°27 | 12° 3 | 18°18 | T 16 | |
| W17 | 23 44 43 | 24°30'24 | 20°18 | 15°38 | 25° 4 | 20° 3 | 7°45 | 29°52 | 21°33 | 23°13 | 10°35 | 25°43 | 24°24 | 12°10 | 18°17 | W17 | |
| T 18 | 23 48 40 | 25°28'41 | 3♐29 | 17° 6 | 26°16 | 20°41 | 7°42 | 29°59 | 21°35 | 23°14 | 10°34 | 25°38 | 24°21 | 12°17 | 18°16 | T 18 | |
| F 19 | 23 52 36 | 26°26'59 | 16°19 | 18°32 | 27°29 | 21°19 | 7°39 | 0♎ 6 | 21°38 | 23°15 | 10°32 | 25°33 | 24°18 | 12°23 | 18°14 | F 19 | |
| S 20 | 23 56 33 | 27°25'19 | 28°49 | 19°57 | 28°41 | 21°57 | 7°36 | 0°13 | 21°40 | 23°17 | 10°31 | 25°29 | 24°14 | 12°30 | 18°13 | S 20 | |
| S 21 | 0 0 30 | 28°23'41 | 11♐ 3 | 21°20 | 29°54 | 22°34 | 7°34 | 0°20 | 21°43 | 23°18 | 10°30 | 25°26 | 24°11 | 12°37 | 18°11 | S 21 | |
| M22 | 0 4 26 | 29°22'04 | 23° 5 | 22°42 | 1♐ 7 | 23°12 | 7°31 | 0°28 | 21°45 | 23°19 | 10°29 | 25°25 | 24° 8 | 12°43 | 18° 9 | M22 | |
| T 23 | 0 8 23 | 0♏20'29 | 4♏59 | 24° 3 | 2°19 | 23°50 | 7°29 | 0°35 | 21°48 | 23°20 | 10°28 | 25°D25 | 24° 5 | 12°50 | 18° 8 | T 23 | |
| W24 | 0 12 19 | 1°18'55 | 16°49 | 25°23 | 3°32 | 24°28 | 7°27 | 0°42 | 21°51 | 23°21 | 10°27 | 25°26 | 24° 2 | 12°57 | 18° 6 | W24 | |
| T 25 | 0 16 16 | 2°17'22 | 28°42 | 26°41 | 4°44 | 25° 5 | 7°26 | 0°49 | 21°53 | 23°22 | 10°26 | 25°27 | 23°59 | 13° 3 | 18° 4 | T 25 | |
| F 26 | 0 20 12 | 3°15'52 | 10♏41 | 27°57 | 5°57 | 25°43 | 7°24 | 0°56 | 21°56 | 23°23 | 10°24 | 25°29 | 23°55 | 13°10 | 18° 3 | F 26 | |
| S 27 | 0 24 9 | 4°14'23 | 22°51 | 29°12 | 7° 9 | 26°21 | 7°23 | 1° 2 | 21°59 | 23°24 | 10°23 | 25°R30 | 23°52 | 13°17 | 18° 1 | S 27 | |
| S 28 | 0 28 5 | 5°12'55 | 5♎16 | 0♐25 | 8°21 | 26°58 | 7°22 | 1° 9 | 22° 2 | 23°25 | 10°22 | 25°30 | 23°49 | 13°23 | 17°59 | S 28 | |
| M29 | 0 32 2 | 6°11'29 | 17°58 | 1°37 | 9°34 | 27°36 | 7°21 | 1°16 | 22° 5 | 23°26 | 10°21 | 25°27 | 23°46 | 13°30 | 17°57 | M29 | |
| T 30 | 0 35 59 | 7♏10'06 | 0°Y58 | 2♐47 | 10♐46 | 28°♏13 | 7♏20 | 1°23 | 22♐ 8 | 23♏27 | 10°Y20 | 25♏23 | 23♏43 | 13♏37 | 17♏55 | T 30 | |

Delta T = 18m06s

OCTOBER 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|---------|-------|--------|--------|--------|-------|-------|--------|------|-----|
| W 1 | 0 39 55 | 8♏ 8'44 | 14°Y17 | 3♐54 | 11♐58 | 28♏50 | 7°R20 | 1°23'30 | 22♐11 | 23♏28 | 10°R18 | 25°R17 | 23♏39 | 13♏43 | 17°R53 | W 1 | |
| T 2 | 0 43 52 | 9° 7'23 | 27°52 | 5° 0 | 13°11 | 29°28 | 7♏19 | 1°36 | 22°14 | 23°29 | 10°Y17 | 25°10 | 23°36 | 13°50 | 17♏51 | T 2 | |
| F 3 | 0 47 48 | 10° 6'05 | 11♐42 | 6° 4 | 14°23 | 0♎ 5 | 7°D19 | 1°43 | 22°17 | 23°30 | 10°16 | 25° 3 | 23°33 | 13°57 | 17°49 | F 3 | |
| S 4 | 0 51 45 | 11° 4'50 | 25°41 | 7° 5 | 15°35 | 0°42 | 7°19 | 1°50 | 22°20 | 23°30 | 10°15 | 24°56 | 23°30 | 14° 3 | 17°47 | S 4 | |
| S 5 | 0 55 41 | 12° 3'36 | 9♐48 | 8° 4 | 16°47 | 1°20 | 7°19 | 1°56 | 22°23 | 23°31 | 10°14 | 24°51 | 23°27 | 14°10 | 17°44 | S 5 | |
| M 6 | 0 59 38 | 13° 2'25 | 23°58 | 9° 0 | 17°59 | 1°57 | 7°20 | 2° 3 | 22°26 | 23°32 | 10°12 | 24°47 | 23°24 | 14°17 | 17°42 | M 6 | |
| T 7 | 1 3 34 | 14° 1'16 | 8♏ 8 | 9°53 | 19°11 | 2°34 | 7°20 | 2° 9 | 22°29 | 23°32 | 10°11 | 24°D45 | 23°20 | 14°23 | 17°40 | T 7 | |
| W 8 | 1 7 31 | 15° 0'09 | 22°17 | 10°43 | 20°24 | 3°11 | 7°21 | 2°15 | 22°32 | 23°33 | 10°10 | 24°45 | 23°17 | 14°30 | 17°38 | W 8 | |
| T 9 | 1 11 28 | 15°59'04 | 6♐23 | 11°30 | 21°36 | 3°48 | 7°22 | 2°22 | 22°35 | 23°34 | 10° 9 | 24°46 | 23°14 | 14°37 | 17°35 | T 9 | |
| F 10 | 1 15 24 | 16°58'02 | 20°25 | 12°13 | 22°48 | 4°25 | 7°23 | 2°28 | 22°38 | 23°34 | 10° 8 | 24°R47 | 23°11 | 14°43 | 17°33 | F 10 | |
| S 11 | 1 19 21 | 17°57'02 | 4♎22 | 12°52 | 24° 0 | 5° 2 | 7°25 | 2°34 | 22°42 | 23°35 | 10° 7 | 24°47 | 23° 8 | 14°50 | 17°31 | S 11 | |
| S 12 | 1 23 17 | 18°56'04 | 18°11 | 13°26 | 25°11 | 5°39 | 7°26 | 2°40 | 22°45 | 23°35 | 10° 5 | 24°44 | 23° 4 | 14°57 | 17°28 | S 12 | |
| M13 | 1 27 14 | 19°55'08 | 1♏52 | 13°56 | 26°23 | 6°16 | 7°28 | 2°46 | 22°48 | 23°36 | 10° 4 | 24°40 | 23° 1 | 15° 3 | 17°26 | M13 | |
| T 14 | 1 31 10 | 20°54'15 | 15°21 | 14°21 | 27°35 | 6°53 | 7°30 | 2°52 | 22°51 | 23°36 | 10° 3 | 24°32 | 22°58 | 15°10 | 17°23 | T 14 | |
| W15 | 1 35 7 | 21°53'23 | 28°37 | 14°40 | 28°47 | 7°30 | 7°32 | 2°58 | 22°55 | 23°37 | 10° 2 | 24°23 | 22°55 | 15°17 | 17°21 | W15 | |
| T 16 | 1 39 3 | 22°52'33 | 11♐36 | 14°52 | 29°59 | 8° 6 | 7°35 | 3° 4 | 22°58 | 23°37 | 10° 1 | 24°12 | 22°52 | 15°23 | 17°18 | T 16 | |
| F 17 | 1 43 0 | 23°51'46 | 24°19 | 14°R59 | 1♐11 | 8°43 | 7°37 | 3°10 | 23° 1 | 23°37 | 10° 0 | 24° 2 | 22°49 | 15°30 | 17°16 | F 17 | |
| S 18 | 1 46 57 | 24°51'00 | 6♏46 | 14°58 | 2°22 | 9°20 | 7°40 | 3°16 | 23° 5 | 23°38 | 9°58 | 23°52 | 22°45 | 15°37 | 17°13 | S 18 | |
| S 19 | 1 50 53 | 25°50'16 | 18°58 | 14°49 | 3°34 | 9°56 | 7°43 | 3°22 | 23° 8 | 23°38 | 9°57 | 23°44 | 22°42 | 15°43 | 17°10 | S 19 | |
| M20 | 1 54 50 | 26°49'34 | 0♏58 | 14°33 | 4°46 | 10°33 | 7°46 | 3°27 | 23°12 | 23°38 | 9°56 | 23°38 | 22°39 | 15°50 | 17° 8 | M20 | |
| T 21 | 1 58 46 | 27°48'54 | 12°50 | 14° 9 | 5°57 | 11° 9 | 7°50 | 3°33 | 23°15 | 23°38 | 9°55 | 23°35 | 22°36 | 15°57 | 17° 5 | T 21 | |
| W22 | 2 2 43 | 28°48'15 | 24°40 | 13°36 | 7° 9 | 11°46 | 7°53 | 3°38 | 23°19 | 23°39 | 9°54 | 23°D33 | 22°33 | 16° 4 | 17° 2 | W22 | |
| T 23 | 2 6 39 | 29°47'38 | 6♏31 | 12°55 | 8°21 | 12°22 | 7°57 | 3°44 | 23°22 | 23°39 | 9°53 | 23°34 | 22°30 | 16°10 | 17° 0 | T 23 | |
| F 24 | 2 10 36 | 0♐47'03 | 18°29 | 12° 6 | 9°32 | 12°58 | 8° 1 | 3°49 | 23°26 | 23°39 | 9°52 | 23°R34 | 22°26 | 16°17 | 16°57 | F 24 | |
| S 25 | 2 14 32 | 1°46'30 | 0♎40 | 11° 9 | 10°43 | 13°35 | 8° 5 | 3°54 | 23°29 | 23°39 | 9°51 | 23°34 | 22°23 | 16°24 | 16°54 | S 25 | |
| S 26 | 2 18 29 | 2°45'58 | 13° 9 | 10° 6 | 11°55 | 14°11 | 8° 9 | 4° 0 | 23°33 | 23°39 | 9°49 | 23°32 | 22°20 | 16°30 | 16°51 | S 26 | |
| M27 | 2 22 26 | 3°45'28 | 25°59 | 8°58 | 13° 6 | 14°47 | 8°14 | 4° 5 | 23°36 | 23°R39 | 9°48 | 23°28 | 22°17 | 16°37 | 16°49 | M27 | |
| T 28 | 2 26 22 | 4°45'00 | 9°Y13 | 7°45 | 14°17 | 15°23 | 8°18 | 4°10 | 23°40 | 23°39 | 9°47 | 23°21 | 22°14 | 16°44 | 16°46 | T 28 | |
| W29 | 2 30 19 | 5°44'34 | 22°51 | 6°31 | 15°29 | 15°59 | 8°23 | 4°15 | 23°44 | 23°39 | 9°46 | 23°12 | 22°10 | 16°50 | 16°43 | W29 | |
| T 30 | 2 34 15 | 6°44'10 | 6♏50 | 5°17 | 16°40 | 16°35 | 8°28 | 4°20 | 23°47 | 23°39 | 9°45 | 23° 1 | 22° 7 | 16°57 | 16°40 | T 30 | |
| F 31 | 2 38 12 | 7♐43'47 | 21♏ 6 | 4♐ 5 | 17♏51 | 17°21 | 8♏33 | 4°24 | 23♐51 | 23♏39 | 9°Y44 | 22♏50 | 22♏ 4 | 17♏ 4 | 16♏37 | F 31 | |

Delta T = 18m06s

ASTRODIENST EPHEMERIS for the year 2566
geocentric

NOVEMBER 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|------|-------|--------|-------|--------|-------|-------|--------|------|-----|
| S 1 | 2 42 8 | 8♁43'27 | 5♁34 | 2°R57 | 19♁ 2 | 17♁47 | 8♁38 | 4♁29 | 23♁55 | 23°R38 | 9°R43 | 22°R39 | 22♁ 1 | 17♁10 | 16°R34 | S 1 | |
| S 2 | 2 46 5 | 9°43'09 | 20° 7 | 1♁57 | 20°13 | 18°23 | 8°44 | 4°34 | 23°58 | 23♁38 | 9°R42 | 22♁29 | 21°58 | 17°17 | 16♁32 | S 2 | |
| M 3 | 2 50 1 | 10°42'53 | 4♁37 | 1° 4 | 21°24 | 18°59 | 8°49 | 4°38 | 24° 2 | 23°38 | 9°41 | 22°23 | 21°55 | 17°24 | 16°29 | M 3 | |
| T 4 | 2 53 58 | 11°42'40 | 19° 1 | 0°22 | 22°35 | 19°34 | 8°55 | 4°43 | 24° 6 | 23°38 | 9°40 | 22°19 | 21°51 | 17°30 | 16°26 | T 4 | |
| W 5 | 2 57 55 | 12°42'28 | 3♁14 | 29♁50 | 23°45 | 20°10 | 9° 1 | 4°47 | 24° 9 | 23°38 | 9°39 | 22°17 | 21°48 | 17°37 | 16°23 | W 5 | |
| T 6 | 3 1 51 | 13°42'19 | 17°16 | 29°29 | 24°56 | 20°46 | 9° 7 | 4°52 | 24°13 | 23°37 | 9°38 | 22°17 | 21°45 | 17°44 | 16°20 | T 6 | |
| F 7 | 3 5 48 | 14°42'12 | 1♁ 6 | 29°D20 | 26° 7 | 21°21 | 9°14 | 4°56 | 24°17 | 23°37 | 9°37 | 22°17 | 21°42 | 17°50 | 16°17 | F 7 | |
| S 8 | 3 9 44 | 15°42'07 | 14°44 | 29°23 | 27°17 | 21°57 | 9°20 | 5° 0 | 24°20 | 23°36 | 9°36 | 22°16 | 21°39 | 17°57 | 16°14 | S 8 | |
| S 9 | 3 13 41 | 16°42'04 | 28°11 | 29°36 | 28°28 | 22°32 | 9°27 | 5° 4 | 24°24 | 23°36 | 9°35 | 22°12 | 21°36 | 18° 4 | 16°11 | S 9 | |
| M10 | 3 17 37 | 17°42'04 | 11♁28 | 29°59 | 29°38 | 23° 8 | 9°34 | 5° 8 | 24°28 | 23°36 | 9°35 | 22° 5 | 21°32 | 18°10 | 16° 9 | M10 | |
| T 11 | 3 21 34 | 18°42'05 | 24°34 | 0♁32 | 0♁49 | 23°43 | 9°40 | 5°12 | 24°32 | 23°35 | 9°34 | 21°55 | 21°29 | 18°17 | 16° 6 | T 11 | |
| W12 | 3 25 30 | 19°42'09 | 7♁28 | 1°14 | 1°59 | 24°18 | 9°48 | 5°16 | 24°35 | 23°34 | 9°33 | 21°43 | 21°26 | 18°24 | 16° 3 | W12 | |
| T 13 | 3 29 27 | 20°42'14 | 20°11 | 2° 4 | 3° 9 | 24°53 | 9°55 | 5°19 | 24°39 | 23°34 | 9°32 | 21°29 | 21°23 | 18°30 | 16° 0 | T 13 | |
| F 14 | 3 33 24 | 21°42'21 | 2♁41 | 3° 0 | 4°20 | 25°29 | 10° 2 | 5°23 | 24°43 | 23°33 | 9°31 | 21°15 | 21°20 | 18°37 | 15°57 | F 14 | |
| S 15 | 3 37 20 | 22°42'30 | 14°59 | 4° 3 | 5°30 | 26° 4 | 10°10 | 5°26 | 24°47 | 23°33 | 9°30 | 21° 2 | 21°16 | 18°44 | 15°54 | S 15 | |
| S 16 | 3 41 17 | 23°42'41 | 27° 5 | 5°11 | 6°40 | 26°39 | 10°18 | 5°30 | 24°50 | 23°32 | 9°29 | 20°50 | 21°13 | 18°50 | 15°51 | S 16 | |
| M17 | 3 45 13 | 24°42'53 | 9♁ 1 | 6°23 | 7°50 | 27°14 | 10°25 | 5°33 | 24°54 | 23°31 | 9°29 | 20°42 | 21°10 | 18°57 | 15°48 | M17 | |
| T 18 | 3 49 10 | 25°43'07 | 20°51 | 7°39 | 9° 0 | 27°48 | 10°33 | 5°36 | 24°58 | 23°31 | 9°28 | 20°36 | 21° 7 | 19° 4 | 15°46 | T 18 | |
| W19 | 3 53 6 | 26°43'22 | 2♁38 | 8°59 | 10° 9 | 28°23 | 10°42 | 5°39 | 25° 2 | 23°30 | 9°27 | 20°33 | 21° 4 | 19°10 | 15°43 | W19 | |
| T 20 | 3 57 3 | 27°43'39 | 14°27 | 10°22 | 11°19 | 28°58 | 10°50 | 5°42 | 25° 5 | 23°29 | 9°26 | 20°32 | 21° 1 | 19°17 | 15°40 | T 20 | |
| F 21 | 4 0 59 | 28°43'57 | 26°22 | 11°47 | 12°28 | 29°33 | 10°58 | 5°45 | 25° 9 | 23°28 | 9°26 | 20°32 | 20°57 | 19°24 | 15°37 | F 21 | |
| S 22 | 4 4 56 | 29°44'17 | 8♁31 | 13°13 | 13°38 | 0♁ 7 | 11° 7 | 5°48 | 25°13 | 23°28 | 9°25 | 20°31 | 20°54 | 19°30 | 15°34 | S 22 | |
| S 23 | 4 8 53 | 0♁44'38 | 20°58 | 14°42 | 14°47 | 0°42 | 11°16 | 5°51 | 25°17 | 23°27 | 9°24 | 20°30 | 20°51 | 19°37 | 15°31 | S 23 | |
| M24 | 4 12 49 | 1°45'00 | 3♁47 | 16°12 | 15°56 | 1°16 | 11°24 | 5°53 | 25°20 | 23°26 | 9°24 | 20°26 | 20°48 | 19°44 | 15°29 | M24 | |
| T 25 | 4 16 46 | 2°45'24 | 17° 4 | 17°43 | 17° 6 | 1°50 | 11°33 | 5°56 | 25°24 | 23°25 | 9°23 | 20°20 | 20°45 | 19°50 | 15°26 | T 25 | |
| W26 | 4 20 42 | 3°45'49 | 0♁49 | 19°15 | 18°14 | 2°25 | 11°42 | 5°58 | 25°28 | 23°24 | 9°22 | 20°11 | 20°42 | 19°57 | 15°23 | W26 | |
| T 27 | 4 24 39 | 4°46'15 | 15° 1 | 20°47 | 19°23 | 2°59 | 11°52 | 6° 0 | 25°32 | 23°23 | 9°22 | 20° 1 | 20°38 | 20° 4 | 15°21 | T 27 | |
| F 28 | 4 28 35 | 5°46'43 | 29°36 | 22°20 | 20°32 | 3°33 | 12° 1 | 6° 3 | 25°35 | 23°22 | 9°21 | 19°49 | 20°35 | 20°10 | 15°18 | F 28 | |
| S 29 | 4 32 32 | 6°47'13 | 14♁27 | 23°54 | 21°41 | 4° 7 | 12°11 | 6° 5 | 25°39 | 23°21 | 9°21 | 19°38 | 20°32 | 20°17 | 15°15 | S 29 | |
| S 30 | 4 36 28 | 7♁47'44 | 29♁25 | 25♁27 | 22♁49 | 4♁41 | 12♁20 | 6♁ 7 | 25♁43 | 23♁20 | 9°R20 | 19♁29 | 20♁29 | 20♁24 | 15♁13 | S 30 | |

Delta T = 18m06s

DECEMBER 2566

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|------|-----|
| M 1 | 4 40 25 | 8♁48'17 | 14♁21 | 27♁ 2 | 23♁57 | 5♁15 | 12♁30 | 6♁ 9 | 25♁46 | 23°R19 | 9°R20 | 19°R22 | 20♁26 | 20♁30 | 15°R10 | M 1 | |
| T 2 | 4 44 22 | 9°48'51 | 29° 7 | 28°36 | 25° 5 | 5°49 | 12°40 | 6°10 | 25°50 | 23♁18 | 9°R19 | 19♁18 | 20°22 | 20°37 | 15♁ 7 | T 2 | |
| W 3 | 4 48 18 | 10°49'27 | 13♁37 | 0♁10 | 26°13 | 6°23 | 12°50 | 6°12 | 25°54 | 23°16 | 9°19 | 19°D16 | 20°19 | 20°44 | 15° 5 | W 3 | |
| T 4 | 4 52 15 | 11°50'05 | 27°48 | 1°45 | 27°21 | 6°56 | 13° 0 | 6°13 | 25°57 | 23°15 | 9°18 | 19°16 | 20°16 | 20°50 | 15° 2 | T 4 | |
| F 5 | 4 56 11 | 12°50'44 | 11♁39 | 3°19 | 28°29 | 7°30 | 13°10 | 6°15 | 26° 1 | 23°14 | 9°18 | 19°R17 | 20°13 | 20°57 | 15° 0 | F 5 | |
| S 6 | 5 0 8 | 13°51'25 | 25°11 | 4°54 | 29°36 | 8° 3 | 13°20 | 6°16 | 26° 5 | 23°13 | 9°17 | 19°16 | 20°10 | 21° 4 | 14°57 | S 6 | |
| S 7 | 5 4 4 | 14°52'07 | 8♁26 | 6°28 | 0♁44 | 8°37 | 13°31 | 6°17 | 26° 8 | 23°12 | 9°17 | 19°14 | 20° 7 | 21°10 | 14°55 | S 7 | |
| M 8 | 5 8 1 | 15°52'51 | 21°27 | 8° 2 | 1°51 | 9°10 | 13°41 | 6°18 | 26°12 | 23°10 | 9°17 | 19° 9 | 20° 3 | 21°17 | 14°53 | M 8 | |
| T 9 | 5 11 57 | 16°53'37 | 4♁14 | 9°37 | 2°58 | 9°43 | 13°52 | 6°19 | 26°15 | 23° 9 | 9°16 | 19° 1 | 20° 0 | 21°24 | 14°50 | T 9 | |
| W10 | 5 15 54 | 17°54'24 | 16°49 | 11°11 | 4° 5 | 10°16 | 14° 3 | 6°20 | 26°19 | 23° 8 | 9°16 | 18°51 | 19°57 | 21°30 | 14°48 | W10 | |
| T 11 | 5 19 51 | 18°55'12 | 29°14 | 12°45 | 5°11 | 10°49 | 14°14 | 6°21 | 26°23 | 23° 7 | 9°16 | 18°39 | 19°54 | 21°37 | 14°46 | T 11 | |
| F 12 | 5 23 47 | 19°56'02 | 11♁29 | 14°20 | 6°18 | 11°22 | 14°25 | 6°22 | 26°26 | 23° 5 | 9°15 | 18°27 | 19°51 | 21°44 | 14°43 | F 12 | |
| S 13 | 5 27 44 | 20°56'52 | 23°35 | 15°54 | 7°24 | 11°55 | 14°36 | 6°22 | 26°30 | 23° 4 | 9°15 | 18°16 | 19°48 | 21°50 | 14°41 | S 13 | |
| S 14 | 5 31 40 | 21°57'44 | 5♁34 | 17°28 | 8°30 | 12°28 | 14°47 | 6°23 | 26°33 | 23° 2 | 9°15 | 18° 7 | 19°44 | 21°57 | 14°39 | S 14 | |
| M15 | 5 35 37 | 22°58'37 | 17°26 | 19° 2 | 9°36 | 13° 1 | 14°58 | 6°23 | 26°37 | 23° 1 | 9°15 | 18° 0 | 19°41 | 22° 4 | 14°37 | M15 | |
| T 16 | 5 39 33 | 23°59'31 | 29°13 | 20°36 | 10°41 | 13°33 | 15° 9 | 6°23 | 26°40 | 23° 0 | 9°14 | 17°55 | 19°38 | 22°10 | 14°35 | T 16 | |
| W17 | 5 43 30 | 25° 0'26 | 10♁59 | 22°10 | 11°47 | 14° 5 | 15°21 | 6°R23 | 26°43 | 22°58 | 9°14 | 17°53 | 19°35 | 22°17 | 14°33 | W17 | |
| T 18 | 5 47 27 | 26° 1'21 | 22°48 | 23°45 | 12°52 | 14°38 | 15°32 | 6°23 | 26°47 | 22°57 | 9°14 | 17°D53 | 19°32 | 22°24 | 14°31 | T 18 | |
| F 19 | 5 51 23 | 27° 2'18 | 4♁42 | 25°19 | 13°56 | 15°10 | 15°44 | 6°23 | 26°50 | 22°55 | 9°14 | 17°54 | 19°28 | 22°30 | 14°29 | F 19 | |
| S 20 | 5 55 20 | 28° 3'14 | 16°49 | 26°53 | 15° 1 | 15°42 | 15°56 | 6°23 | 26°54 | 22°54 | 9°14 | 17°55 | 19°25 | 22°37 | 14°27 | S 20 | |
| S 21 | 5 59 16 | 29° 4'12 | 29°11 | 28°27 | 16° 5 | 16°14 | 16° 8 | 6°22 | 26°57 | 22°52 | 9°14 | 17°R56 | 19°22 | 22°44 | 14°25 | S 21 | |
| M22 | 6 3 13 | 0♁ 5'10 | 11♁55 | 0♁ 2 | 17° 9 | 16°46 | 16°20 | 6°22 | 27° 0 | 22°51 | 9°14 | 17°55 | 19°19 | 22°50 | 14°23 | M22 | |
| T 23 | 6 7 9 | 1° 6'08 | 25° 6 | 1°36 | 18°13 | 17°17 | 16°32 | 6°21 | 27° 4 | 22°49 | 9°D14 | 17°52 | 19°16 | 22°57 | 14°21 | T 23 | |
| W24 | 6 11 6 | 2° 7'07 | 8♁45 | 3°10 | 19°16 | 17°49 | 16°44 | 6°21 | 27° 7 | 22°48 | 9°14 | 17°47 | 19°13 | 23° 3 | 14°20 | W24 | |
| T 25 | 6 15 2 | 3° 8'07 | 22°54 | 4°45 | 20°19 | 18°21 | 16°56 | 6°20 | 27°10 | 22°46 | 9°14 | 17°41 | 19° 9 | 23°10 | 14°18 | T 25 | |
| F 26 | 6 18 59 | 4° 9'07 | 7♁30 | 6°20 | 21°22 | 18°52 | 17° 8 | 6°19 | 27°13 | 22°44 | 9°14 | 17°34 | 19° 6 | 23°17 | 14°16 | F 26 | |
| S 27 | 6 22 56 | 5°10'08 | 22°29 | 7°55 | 22°24 | 19°23 | 17°20 | 6°18 | 27°16 | 22°43 | 9°14 | 17°27 | 19° 3 | 23°23 | 14°15 | S 27 | |
| S 28 | 6 26 52 | 6°11'09 | 7♁40 | 9°30 | 23°26 | 19°54 | 17°33 | 6°17 | 27°20 | 22°41 | 9°14 | 17°21 | 19° 0 | 23°30 | 14°13 | S 28 | |
| M29 | 6 30 49 | 7°12'11 | 22°54 | 11° 5 | 24°27 | 20°25 | 17°45 | 6°15 | 27°23 | 22°40 | 9°14 | 17°17 | 18°57 | 23°37 | 14°12 | M29 | |
| T 30 | 6 34 45 | 8°13'13 | 8♁ 1 | 12°40 | 25°28 | 20°56 | 17°58 | 6°14 | 27°26 | 22°38 | 9°14 | 17°15 | 18°54 | 23°43 | 14°10 | T 30 | |
| W31 | 6 38 42 | 9♁14'16 | 22♁52 | 14♁16 | 26♁29 | 21♁27 | 18♁11 | 6♁13 | 27♁29 | 22♁36 | 9°R15 | 17°D15 | 18♁50 | 23♁50 | 14♁ 9 | W31 | |

Delta T = 18m06s

ASTRODIENST EPHEMERIS for the year 2567
geocentric

JANUARY 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|------|--------|-------|-------|--------|------|-----|
| T 1 | 6 42 38 | 10♁15'20 | 7♎21 | 15♁52 | 27♁29 | 21♁57 | 18♁23 | 6°R11 | 27♎32 | 22°R35 | 9♏15 | 17♁16 | 18♁47 | 23♁57 | 14°R 8 | T 1 | |
| F 2 | 6 46 35 | 11°16'25 | 21°25 | 17°28 | 28°29 | 22°28 | 18°36 | 6♎ 9 | 27°35 | 22♁33 | 9°15 | 17°18 | 18°44 | 24° 3 | 14♁ 6 | F 2 | |
| S 3 | 6 50 31 | 12°17'30 | 5♁ 5 | 19° 4 | 29°29 | 22°58 | 18°49 | 6° 7 | 27°38 | 22°31 | 9°15 | 17°19 | 18°41 | 24°10 | 14° 5 | S 3 | |
| S 4 | 6 54 28 | 13°18'36 | 18°21 | 20°40 | 0♁28 | 23°28 | 19° 2 | 6° 6 | 27°41 | 22°30 | 9°15 | 17°R19 | 18°38 | 24°17 | 14° 4 | S 4 | |
| M 5 | 6 58 25 | 14°19'42 | 1♎16 | 22°17 | 1°26 | 23°58 | 19°15 | 6° 4 | 27°44 | 22°28 | 9°16 | 17°18 | 18°34 | 24°23 | 14° 3 | M 5 | |
| T 6 | 7 2 21 | 15°20'49 | 13°54 | 23°54 | 2°24 | 24°28 | 19°28 | 6° 1 | 27°46 | 22°26 | 9°16 | 17°15 | 18°31 | 24°30 | 14° 2 | T 6 | |
| W 7 | 7 6 18 | 16°21'57 | 26°18 | 25°30 | 3°22 | 24°58 | 19°41 | 5°59 | 27°49 | 22°25 | 9°16 | 17°10 | 18°28 | 24°37 | 14° 1 | W 7 | |
| T 8 | 7 10 14 | 17°23'05 | 8♁29 | 27° 7 | 4°19 | 25°28 | 19°54 | 5°57 | 27°52 | 22°23 | 9°17 | 17° 5 | 18°25 | 24°43 | 14° 0 | T 8 | |
| F 9 | 7 14 11 | 18°24'14 | 20°32 | 28°44 | 5°15 | 25°57 | 20° 7 | 5°55 | 27°55 | 22°21 | 9°17 | 17° 0 | 18°22 | 24°50 | 13°59 | F 9 | |
| S 10 | 7 18 7 | 19°25'23 | 2♁28 | 0♁21 | 6°11 | 26°26 | 20°20 | 5°52 | 27°57 | 22°20 | 9°18 | 16°54 | 18°19 | 24°57 | 13°58 | S 10 | |
| S 11 | 7 22 4 | 20°26'32 | 14°20 | 1°58 | 7° 6 | 26°55 | 20°34 | 5°49 | 28° 0 | 22°18 | 9°18 | 16°50 | 18°15 | 25° 3 | 13°57 | S 11 | |
| M12 | 7 26 1 | 21°27'41 | 26° 8 | 3°35 | 8° 1 | 27°24 | 20°47 | 5°47 | 28° 3 | 22°16 | 9°18 | 16°47 | 18°12 | 25°10 | 13°57 | M12 | |
| T 13 | 7 29 57 | 22°28'50 | 7♁56 | 5°12 | 8°55 | 27°53 | 21° 1 | 5°44 | 28° 5 | 22°14 | 9°19 | 16°45 | 18° 9 | 25°17 | 13°56 | T 13 | |
| W14 | 7 33 54 | 23°29'59 | 19°44 | 6°49 | 9°48 | 28°21 | 21°14 | 5°41 | 28° 8 | 22°13 | 9°19 | 16°D45 | 18° 6 | 25°23 | 13°55 | W14 | |
| T 15 | 7 37 50 | 24°31'08 | 1♁37 | 8°25 | 10°40 | 28°50 | 21°28 | 5°38 | 28°10 | 22°11 | 9°20 | 16°46 | 18° 3 | 25°30 | 13°55 | T 15 | |
| F 16 | 7 41 47 | 25°32'16 | 13°36 | 10° 0 | 11°32 | 29°18 | 21°41 | 5°35 | 28°13 | 22° 9 | 9°20 | 16°47 | 18° 0 | 25°37 | 13°54 | F 16 | |
| S 17 | 7 45 43 | 26°33'25 | 25°45 | 11°35 | 12°23 | 29°46 | 21°55 | 5°32 | 28°15 | 22° 8 | 9°21 | 16°49 | 17°56 | 25°43 | 13°54 | S 17 | |
| S 18 | 7 49 40 | 27°34'33 | 8♏ 8 | 13° 8 | 13°14 | 0♎13 | 22° 9 | 5°29 | 28°18 | 22° 6 | 9°22 | 16°51 | 17°53 | 25°50 | 13°54 | S 18 | |
| M19 | 7 53 36 | 28°35'40 | 20°50 | 14°41 | 14° 3 | 0°41 | 22°22 | 5°25 | 28°20 | 22° 4 | 9°22 | 16°51 | 17°50 | 25°57 | 13°53 | M19 | |
| T 20 | 7 57 33 | 29°36'47 | 3♁53 | 16°12 | 14°52 | 1° 8 | 22°36 | 5°22 | 28°22 | 22° 3 | 9°23 | 16°R52 | 17°47 | 26° 3 | 13°53 | T 20 | |
| W21 | 8 1 30 | 0♁37'54 | 17°22 | 17°41 | 15°39 | 1°35 | 22°50 | 5°18 | 28°24 | 22° 1 | 9°23 | 16°51 | 17°44 | 26°10 | 13°53 | W21 | |
| T 22 | 8 5 26 | 1°38'59 | 1♁18 | 19° 7 | 16°26 | 2° 2 | 23° 4 | 5°15 | 28°27 | 21°59 | 9°24 | 16°50 | 17°40 | 26°17 | 13°53 | T 22 | |
| F 23 | 8 9 23 | 2°40'05 | 15°41 | 20°31 | 17°12 | 2°29 | 23°18 | 5°11 | 28°29 | 21°58 | 9°25 | 16°48 | 17°37 | 26°23 | 13°53 | F 23 | |
| S 24 | 8 13 19 | 3°41'10 | 0♁27 | 21°52 | 17°57 | 2°56 | 23°31 | 5° 7 | 28°31 | 21°56 | 9°26 | 16°46 | 17°34 | 26°30 | 13°D53 | S 24 | |
| S 25 | 8 17 16 | 4°42'14 | 15°32 | 23° 9 | 18°40 | 3°22 | 23°45 | 5° 4 | 28°33 | 21°54 | 9°26 | 16°45 | 17°31 | 26°37 | 13°53 | S 25 | |
| M26 | 8 21 12 | 5°43'18 | 0♁45 | 24°21 | 19°23 | 3°48 | 23°59 | 5° 0 | 28°35 | 21°53 | 9°27 | 16°44 | 17°28 | 26°43 | 13°53 | M26 | |
| T 27 | 8 25 9 | 6°44'21 | 15°59 | 25°28 | 20° 4 | 4°14 | 24°13 | 4°56 | 28°37 | 21°51 | 9°28 | 16°D43 | 17°25 | 26°50 | 13°53 | T 27 | |
| W28 | 8 29 5 | 7°45'23 | 1♎ 2 | 26°29 | 20°45 | 4°39 | 24°27 | 4°52 | 28°39 | 21°49 | 9°29 | 16°43 | 17°21 | 26°57 | 13°53 | W28 | |
| T 29 | 8 33 2 | 8°46'25 | 15°47 | 27°23 | 21°23 | 5° 5 | 24°41 | 4°48 | 28°41 | 21°48 | 9°30 | 16°44 | 17°18 | 27° 3 | 13°54 | T 29 | |
| F 30 | 8 36 59 | 9°47'27 | 0♁ 7 | 28° 9 | 22° 1 | 5°30 | 24°56 | 4°43 | 28°42 | 21°46 | 9°30 | 16°45 | 17°15 | 27°10 | 13°54 | F 30 | |
| S 31 | 8 40 55 | 10♁48'28 | 14♁ 0 | 28♁47 | 22♁38 | 5♎55 | 25♁10 | 4♎39 | 28♎44 | 21♁45 | 9♏31 | 16♁45 | 17♁12 | 27♁16 | 13♁54 | S 31 | |

Delta T = 18m07s

FEBRUARY 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 8 44 52 | 11♁49'29 | 27♁26 | 29♁15 | 23♁13 | 6♎19 | 25♁24 | 4°R35 | 28♎46 | 21°R43 | 9♏32 | 16♁46 | 17♁ 9 | 27♁23 | 13♁55 | S 1 | |
| M 2 | 8 48 48 | 12°50'30 | 10♎27 | 29°34 | 23°46 | 6°44 | 25°38 | 4♎31 | 28°48 | 21♁41 | 9°33 | 16°R46 | 17° 6 | 27°30 | 13°55 | M 2 | |
| T 3 | 8 52 45 | 13°51'30 | 23° 5 | 29°R41 | 24°18 | 7° 8 | 25°52 | 4°26 | 28°49 | 21°40 | 9°34 | 16°46 | 17° 2 | 27°36 | 13°56 | T 3 | |
| W 4 | 8 56 41 | 14°52'30 | 5♁26 | 29°37 | 24°49 | 7°31 | 26° 6 | 4°22 | 28°51 | 21°38 | 9°35 | 16°46 | 16°59 | 27°43 | 13°57 | W 4 | |
| T 5 | 9 0 38 | 15°53'29 | 17°32 | 29°21 | 25°18 | 7°55 | 26°21 | 4°17 | 28°52 | 21°37 | 9°36 | 16°46 | 16°56 | 27°50 | 13°57 | T 5 | |
| F 6 | 9 4 34 | 16°54'28 | 29°28 | 28°54 | 25°45 | 8°18 | 26°35 | 4°13 | 28°54 | 21°35 | 9°37 | 16°D46 | 16°53 | 27°56 | 13°58 | F 6 | |
| S 7 | 9 8 31 | 17°55'26 | 11♁18 | 28°17 | 26°10 | 8°41 | 26°49 | 4° 8 | 28°55 | 21°34 | 9°38 | 16°46 | 16°50 | 28° 3 | 13°59 | S 7 | |
| S 8 | 9 12 28 | 18°56'23 | 23° 5 | 27°29 | 26°34 | 9° 4 | 27° 4 | 4° 4 | 28°56 | 21°32 | 9°39 | 16°46 | 16°46 | 28°10 | 14° 0 | S 8 | |
| M 9 | 9 16 24 | 19°57'19 | 4♁53 | 26°32 | 26°56 | 9°26 | 27°18 | 3°59 | 28°58 | 21°31 | 9°40 | 16°46 | 16°43 | 28°16 | 14° 1 | M 9 | |
| T 10 | 9 20 21 | 20°58'15 | 16°43 | 25°29 | 27°16 | 9°48 | 27°32 | 3°54 | 28°59 | 21°29 | 9°41 | 16°R46 | 16°40 | 28°23 | 14° 2 | T 10 | |
| W11 | 9 24 17 | 21°59'09 | 28°38 | 24°20 | 27°34 | 10° 9 | 27°47 | 3°50 | 29° 0 | 21°28 | 9°42 | 16°46 | 16°37 | 28°30 | 14° 3 | W11 | |
| T 12 | 9 28 14 | 23° 0'02 | 10♁40 | 23° 7 | 27°50 | 10°31 | 28° 1 | 3°45 | 29° 1 | 21°27 | 9°43 | 16°46 | 16°34 | 28°36 | 14° 4 | T 12 | |
| F 13 | 9 32 10 | 24° 0'54 | 22°50 | 21°54 | 28° 4 | 10°52 | 28°15 | 3°40 | 29° 2 | 21°25 | 9°44 | 16°45 | 16°31 | 28°43 | 14° 5 | F 13 | |
| S 14 | 9 36 7 | 25° 1'45 | 5♏11 | 20°41 | 28°15 | 11°12 | 28°30 | 3°35 | 29° 3 | 21°24 | 9°45 | 16°44 | 16°27 | 28°50 | 14° 6 | S 14 | |
| S 15 | 9 40 3 | 26° 2'35 | 17°44 | 19°31 | 28°25 | 11°33 | 28°44 | 3°31 | 29° 4 | 21°22 | 9°46 | 16°42 | 16°24 | 28°56 | 14° 7 | S 15 | |
| M16 | 9 44 0 | 27° 3'23 | 0♁37 | 18°26 | 28°32 | 11°52 | 28°58 | 3°26 | 29° 5 | 21°21 | 9°48 | 16°41 | 16°21 | 29° 3 | 14° 9 | M16 | |
| T 17 | 9 47 57 | 28° 4'10 | 13°37 | 17°26 | 28°36 | 12°12 | 29°13 | 3°21 | 29° 6 | 21°20 | 9°49 | 16°40 | 16°18 | 29°10 | 14°10 | T 17 | |
| W18 | 9 51 53 | 29° 4'55 | 27° 1 | 16°33 | 28°R39 | 12°31 | 29°27 | 3°16 | 29° 7 | 21°19 | 9°50 | 16°D40 | 16°15 | 29°16 | 14°12 | W18 | |
| T 19 | 9 55 50 | 0♁ 5'39 | 10♁45 | 15°48 | 28°38 | 12°50 | 29°42 | 3°11 | 29° 8 | 21°17 | 9°51 | 16°40 | 16°12 | 29°23 | 14°13 | T 19 | |
| F 20 | 9 59 46 | 1° 6'22 | 24°51 | 15°11 | 28°36 | 13° 8 | 29°56 | 3° 6 | 29° 8 | 21°16 | 9°52 | 16°41 | 16° 8 | 29°30 | 14°15 | F 20 | |
| S 21 | 10 3 43 | 2° 7'03 | 9♁16 | 14°42 | 28°31 | 13°26 | 0♁10 | 3° 1 | 29° 9 | 21°15 | 9°53 | 16°42 | 16° 5 | 29°36 | 14°16 | S 21 | |
| S 22 | 10 7 39 | 3° 7'42 | 23°59 | 14°20 | 28°23 | 13°44 | 0°25 | 2°56 | 29°10 | 21°14 | 9°55 | 16°43 | 16° 2 | 29°43 | 14°18 | S 22 | |
| M23 | 10 11 36 | 4° 8'19 | 8♁54 | 14° 7 | 28°13 | 14° 1 | 0°39 | 2°52 | 29°10 | 21°13 | 9°56 | 16°44 | 15°59 | 29°49 | 14°20 | M23 | |
| T 24 | 10 15 32 | 5° 8'55 | 23°54 | 14°D 1 | 28° 0 | 14°17 | 0°53 | 2°47 | 29°11 | 21°11 | 9°57 | 16°R44 | 15°56 | 29°56 | 14°21 | T 24 | |
| W25 | 10 19 29 | 6° 9'30 | 8♎51 | 14° 3 | 27°44 | 14°34 | 1° 8 | 2°42 | 29°11 | 21°10 | 9°58 | 16°43 | 15°52 | 0♁ 3 | 14°23 | W25 | |
| T 26 | 10 23 26 | 7°10'03 | 23°37 | 14°11 | 27°27 | 14°50 | 1°22 | 2°37 | 29°12 | 21° 9 | 10° 0 | 16°41 | 15°49 | 0° 9 | 14°25 | T 26 | |
| F 27 | 10 27 22 | 8°10'34 | 8♁ 3 | 14°26 | 27° 7 | 15° 5 | 1°37 | 2°32 | 29°12 | 21° 8 | 10° 1 | 16°38 | 15°46 | 0°16 | 14°27 | F 27 | |
| S 28 | 10 31 19 | 9♁11'05 | 22♁ 5 | 14♁46 | 26♁44 | 15♎20 | 1♁51 | 2♎27 | 29♎12 | 21♁ 7 | 10♏ 2 | 16♁35 | 15♁43 | 0♁23 | 14♁29 | S 28 | |

Delta T = 18m07s

ASTRODIENST EPHEMERIS for the year 2567
geocentric

MARCH 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|--------|--------|------|-------|--------|--------|-------|--------|-------|------|-------|------|
| S 1 | 10 35 15 | 10♋11'34 | 5♍41 | 15♌22 | 26°R19 | 15♍34 | 2♋ 5 | 2°R22 | 29♍12 | 21°R 6 | 10♏ 4 | 16°R32 | 15♌40 | 0♌29 | 14♌31 | S 1 |
| M 2 | 10 39 12 | 11°12'01 | 18°49 | 15°44 | 25♋53 | 15°48 | 2°20 | 2♌18 | 29°12 | 21♌ 5 | 10° 5 | 16♌29 | 15°37 | 0°36 | 14°33 | M 2 |
| T 3 | 10 43 8 | 12°12'28 | 1♌34 | 16°19 | 25°24 | 16° 2 | 2°34 | 2°13 | 29°13 | 21° 4 | 10° 6 | 16°27 | 15°33 | 0°43 | 14°35 | T 3 |
| W 4 | 10 47 5 | 13°12'53 | 13°57 | 17° 0 | 24°53 | 16°14 | 2°48 | 2° 8 | 29°R13 | 21° 3 | 10° 8 | 16°D27 | 15°30 | 0°49 | 14°37 | W 4 |
| T 5 | 10 51 1 | 14°13'17 | 26° 3 | 17°44 | 24°21 | 16°27 | 3° 2 | 2° 3 | 29°13 | 21° 2 | 10° 9 | 16°27 | 15°27 | 0°56 | 14°40 | T 5 |
| F 6 | 10 54 58 | 15°13'40 | 7♌59 | 18°32 | 23°47 | 16°39 | 3°17 | 1°59 | 29°13 | 21° 2 | 10°10 | 16°29 | 15°24 | 1° 3 | 14°42 | F 6 |
| S 7 | 10 58 55 | 16°14'01 | 19°47 | 19°23 | 23°13 | 16°50 | 3°31 | 1°54 | 29°12 | 21° 1 | 10°12 | 16°31 | 15°21 | 1° 9 | 14°44 | S 7 |
| S 8 | 11 2 51 | 17°14'21 | 1♌34 | 20°18 | 22°37 | 17° 1 | 3°45 | 1°49 | 29°12 | 21° 0 | 10°13 | 16°32 | 15°17 | 1°16 | 14°46 | S 8 |
| M 9 | 11 6 48 | 18°14'39 | 13°22 | 21°16 | 22° 0 | 17°11 | 3°59 | 1°45 | 29°12 | 20°59 | 10°15 | 16°R33 | 15°14 | 1°23 | 14°49 | M 9 |
| T 10 | 11 10 44 | 19°14'55 | 25°17 | 22°16 | 21°23 | 17°21 | 4°13 | 1°40 | 29°12 | 20°58 | 10°16 | 16°33 | 15°11 | 1°29 | 14°51 | T 10 |
| W11 | 11 14 41 | 20°15'10 | 7♋20 | 23°19 | 20°46 | 17°30 | 4°28 | 1°36 | 29°11 | 20°58 | 10°17 | 16°31 | 15° 8 | 1°36 | 14°54 | W11 |
| T 12 | 11 18 37 | 21°15'23 | 19°34 | 24°24 | 20° 8 | 17°38 | 4°42 | 1°31 | 29°11 | 20°57 | 10°19 | 16°27 | 15° 5 | 1°42 | 14°56 | T 12 |
| F 13 | 11 22 34 | 22°15'35 | 2♏ 1 | 25°32 | 19°31 | 17°46 | 4°56 | 1°27 | 29°11 | 20°56 | 10°20 | 16°22 | 15° 2 | 1°49 | 14°59 | F 13 |
| S 14 | 11 26 30 | 23°15'44 | 14°40 | 26°41 | 18°54 | 17°53 | 5°10 | 1°22 | 29°10 | 20°56 | 10°22 | 16°16 | 14°58 | 1°56 | 15° 1 | S 14 |
| S 15 | 11 30 27 | 24°15'52 | 27°32 | 27°53 | 18°18 | 17°59 | 5°24 | 1°18 | 29° 9 | 20°55 | 10°23 | 16° 9 | 14°55 | 2° 2 | 15° 4 | S 15 |
| M16 | 11 34 24 | 25°15'58 | 10♌37 | 29° 6 | 17°43 | 18° 5 | 5°38 | 1°14 | 29° 9 | 20°55 | 10°25 | 16° 2 | 14°52 | 2° 9 | 15° 7 | M16 |
| T 17 | 11 38 20 | 26°16'02 | 23°55 | 0♋22 | 17° 9 | 18°10 | 5°52 | 1°10 | 29° 8 | 20°54 | 10°26 | 15°57 | 14°49 | 2°16 | 15°10 | T 17 |
| W18 | 11 42 17 | 27°16'04 | 7♎26 | 1°39 | 16°36 | 18°15 | 6° 6 | 1° 6 | 29° 7 | 20°54 | 10°28 | 15°53 | 14°46 | 2°22 | 15°12 | W18 |
| T 19 | 11 46 13 | 28°16'03 | 21°10 | 2°57 | 16° 5 | 18°19 | 6°20 | 1° 1 | 29° 7 | 20°53 | 10°29 | 15°51 | 14°43 | 2°29 | 15°15 | T 19 |
| F 20 | 11 50 10 | 29°16'01 | 5♌ 6 | 4°18 | 15°36 | 18°22 | 6°33 | 0°57 | 29° 6 | 20°53 | 10°31 | 15°D51 | 14°39 | 2°36 | 15°18 | F 20 |
| S 21 | 11 54 6 | 0♏15'56 | 19°16 | 5°40 | 15° 9 | 18°25 | 6°47 | 0°54 | 29° 5 | 20°52 | 10°32 | 15°52 | 14°36 | 2°42 | 15°21 | S 21 |
| S 22 | 11 58 3 | 1°15'49 | 3♏36 | 7° 3 | 14°44 | 18°26 | 7° 1 | 0°50 | 29° 4 | 20°52 | 10°33 | 15°54 | 14°33 | 2°49 | 15°24 | S 22 |
| M23 | 12 1 59 | 2°15'40 | 18° 6 | 8°28 | 14°20 | 18°27 | 7°15 | 0°46 | 29° 3 | 20°52 | 10°35 | 15°R54 | 14°30 | 2°56 | 15°27 | M23 |
| T 24 | 12 5 56 | 3°15'29 | 2♎40 | 9°54 | 13°59 | 18°R28 | 7°29 | 0°42 | 29° 2 | 20°51 | 10°36 | 15°53 | 14°27 | 3° 2 | 15°30 | T 24 |
| W25 | 12 9 53 | 4°15'15 | 17°15 | 11°21 | 13°41 | 18°27 | 7°42 | 0°38 | 29° 1 | 20°51 | 10°38 | 15°49 | 14°23 | 3° 9 | 15°33 | W25 |
| T 26 | 12 13 49 | 5°14'59 | 1♌43 | 12°50 | 13°25 | 18°26 | 7°56 | 0°35 | 29° 0 | 20°51 | 10°39 | 15°44 | 14°20 | 3°16 | 15°36 | T 26 |
| F 27 | 12 17 46 | 6°14'42 | 15°59 | 14°20 | 13°11 | 18°25 | 8° 9 | 0°31 | 28°59 | 20°51 | 10°41 | 15°36 | 14°17 | 3°22 | 15°39 | F 27 |
| S 28 | 12 21 42 | 7°14'22 | 29°56 | 15°52 | 13° 0 | 18°22 | 8°23 | 0°28 | 28°58 | 20°50 | 10°42 | 15°28 | 14°14 | 3°29 | 15°42 | S 28 |
| S 29 | 12 25 39 | 8°14'01 | 13♍31 | 17°25 | 12°51 | 18°19 | 8°36 | 0°25 | 28°56 | 20°50 | 10°44 | 15°19 | 14°11 | 3°35 | 15°45 | S 29 |
| M30 | 12 29 35 | 9°13'38 | 26°42 | 18°59 | 12°45 | 18°15 | 8°50 | 0°21 | 28°55 | 20°50 | 10°45 | 15°11 | 14° 8 | 3°42 | 15°48 | M30 |
| T 31 | 12 33 32 | 10♏13'14 | 9♌30 | 20♋34 | 12♋41 | 18♍10 | 9♋ 3 | 0♎18 | 28♍54 | 20♌50 | 10♏47 | 15♌ 4 | 14♌ 4 | 3♌49 | 15♌52 | T 31 |

Delta T = 18m07s

APRIL 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|--------|--------|-------|-------|--------|--------|-------|--------|-------|------|-------|------|
| W 1 | 12 37 28 | 11♏12'47 | 21♌56 | 22♋11 | 12°D40 | 18°R 4 | 9♋16 | 0°R15 | 28°R52 | 20°D50 | 10♏48 | 15°R 0 | 14♌ 1 | 3♌55 | 15♌55 | W 1 |
| T 2 | 12 41 25 | 12°12'19 | 4♌ 6 | 23°49 | 12♋41 | 17♍58 | 9°30 | 0♎12 | 28♍51 | 20♌50 | 10°50 | 14♌58 | 13°58 | 4° 2 | 15°58 | T 2 |
| F 3 | 12 45 21 | 13°11'49 | 16° 2 | 25°29 | 12°44 | 17°50 | 9°43 | 0° 9 | 28°49 | 20°50 | 10°51 | 14°D58 | 13°55 | 4° 9 | 16° 1 | F 3 |
| S 4 | 12 49 18 | 14°11'17 | 27°51 | 27° 9 | 12°50 | 17°43 | 9°56 | 0° 6 | 28°48 | 20°50 | 10°53 | 14°58 | 13°52 | 4°15 | 16° 5 | S 4 |
| S 5 | 12 53 15 | 15°10'44 | 9♌39 | 28°51 | 12°58 | 17°34 | 10° 9 | 0° 4 | 28°46 | 20°50 | 10°54 | 14°R59 | 13°49 | 4°22 | 16° 8 | S 5 |
| M 6 | 12 57 11 | 16°10'09 | 21°30 | 0♏35 | 13° 8 | 17°24 | 10°22 | 0° 1 | 28°45 | 20°51 | 10°56 | 14°59 | 13°45 | 4°29 | 16°11 | M 6 |
| T 7 | 13 1 8 | 17° 9'32 | 3♋29 | 2°20 | 13°20 | 17°14 | 10°35 | 29♌58 | 28°43 | 20°51 | 10°57 | 14°57 | 13°42 | 4°35 | 16°15 | T 7 |
| W 8 | 13 5 4 | 18° 8'53 | 15°40 | 4° 6 | 13°35 | 17° 3 | 10°48 | 29°56 | 28°41 | 20°51 | 10°59 | 14°53 | 13°39 | 4°42 | 16°18 | W 8 |
| T 9 | 13 9 1 | 19° 8'12 | 28° 5 | 5°53 | 13°51 | 16°51 | 11° 1 | 29°54 | 28°40 | 20°51 | 11° 0 | 14°46 | 13°36 | 4°49 | 16°22 | T 9 |
| F 10 | 13 12 57 | 20° 7'29 | 10♏48 | 7°42 | 14°10 | 16°39 | 11°14 | 29°51 | 28°38 | 20°52 | 11° 2 | 14°37 | 13°33 | 4°55 | 16°25 | F 10 |
| S 11 | 13 16 54 | 21° 6'45 | 23°47 | 9°32 | 14°30 | 16°25 | 11°26 | 29°49 | 28°36 | 20°52 | 11° 3 | 14°26 | 13°29 | 5° 2 | 16°29 | S 11 |
| S 12 | 13 20 50 | 22° 5'58 | 7♌ 3 | 11°24 | 14°52 | 16°11 | 11°39 | 29°47 | 28°34 | 20°52 | 11° 5 | 14°14 | 13°26 | 5° 9 | 16°32 | S 12 |
| M13 | 13 24 47 | 23° 5'09 | 20°32 | 13°17 | 15°16 | 15°57 | 11°52 | 29°45 | 28°32 | 20°53 | 11° 6 | 14° 3 | 13°23 | 5°15 | 16°36 | M13 |
| T 14 | 13 28 44 | 24° 4'18 | 4♎13 | 15°11 | 15°42 | 15°41 | 12° 4 | 29°43 | 28°31 | 20°53 | 11° 8 | 13°53 | 13°20 | 5°22 | 16°39 | T 14 |
| W15 | 13 32 40 | 25° 3'26 | 18° 2 | 17° 7 | 16° 9 | 15°25 | 12°17 | 29°42 | 28°29 | 20°53 | 11° 9 | 13°46 | 13°17 | 5°28 | 16°43 | W15 |
| T 16 | 13 36 37 | 26° 2'30 | 1♌58 | 19° 4 | 16°38 | 15° 8 | 12°29 | 29°40 | 28°27 | 20°54 | 11°11 | 13°41 | 13°14 | 5°35 | 16°47 | T 16 |
| F 17 | 13 40 33 | 27° 1'33 | 15°59 | 21° 2 | 17° 8 | 14°51 | 12°41 | 29°38 | 28°25 | 20°54 | 11°12 | 13°39 | 13°10 | 5°42 | 16°50 | F 17 |
| S 18 | 13 44 30 | 28° 0'33 | 0♎ 4 | 23° 2 | 17°40 | 14°33 | 12°53 | 29°37 | 28°23 | 20°55 | 11°14 | 13°D39 | 13° 7 | 5°48 | 16°54 | S 18 |
| S 19 | 13 48 26 | 28°59'31 | 14°12 | 25° 3 | 18°13 | 14°15 | 13° 6 | 29°36 | 28°21 | 20°56 | 11°15 | 13°R39 | 13° 4 | 5°55 | 16°57 | S 19 |
| M20 | 13 52 23 | 29°58'26 | 28°21 | 27° 5 | 18°47 | 13°56 | 13°18 | 29°34 | 28°18 | 20°56 | 11°16 | 13°38 | 13° 1 | 6° 2 | 17° 1 | M20 |
| T 21 | 13 56 19 | 0♌57'20 | 12♎31 | 29° 9 | 19°23 | 13°36 | 13°30 | 29°33 | 28°16 | 20°57 | 11°18 | 13°36 | 12°58 | 6° 8 | 17° 5 | T 21 |
| W22 | 14 0 16 | 1°56'10 | 26°39 | 1♌13 | 20° 0 | 13°16 | 13°41 | 29°32 | 28°14 | 20°58 | 11°19 | 13°31 | 12°55 | 6°15 | 17° 9 | W22 |
| T 23 | 14 4 13 | 2°54'59 | 10♌42 | 3°18 | 20°38 | 12°56 | 13°53 | 29°31 | 28°12 | 20°58 | 11°21 | 13°22 | 12°51 | 6°22 | 17°12 | T 23 |
| F 24 | 14 8 9 | 3°53'46 | 24°34 | 5°25 | 21°18 | 12°35 | 14° 5 | 29°30 | 28°10 | 20°59 | 11°22 | 13°12 | 12°48 | 6°28 | 17°16 | F 24 |
| S 25 | 14 12 6 | 4°52'31 | 8♍14 | 7°31 | 21°58 | 12°14 | 14°17 | 29°30 | 28° 7 | 21° 0 | 11°24 | 13° 0 | 12°45 | 6°35 | 17°20 | S 25 |
| S 26 | 14 16 2 | 5°51'14 | 21°36 | 9°38 | 22°40 | 11°52 | 14°28 | 29°29 | 28° 5 | 21° 1 | 11°25 | 12°47 | 12°42 | 6°42 | 17°23 | S 26 |
| M27 | 14 19 59 | 6°49'55 | 4♌39 | 11°45 | 23°22 | 11°31 | 14°40 | 29°29 | 28° 3 | 21° 1 | 11°26 | 12°35 | 12°39 | 6°48 | 17°27 | M27 |
| T 28 | 14 23 55 | 7°48'34 | 17°22 | 13°52 | 24° 6 | 11° 9 | 14°51 | 29°28 | 28° 1 | 21° 2 | 11°28 | 12°26 | 12°35 | 6°55 | 17°31 | T 28 |
| W29 | 14 27 52 | 8°47'12 | 29°47 | 15°59 | 24°50 | 10°46 | 15° 2 | 29°28 | 27°58 | 21° 3 | 11°29 | 12°18 | 12°32 | 7° 2 | 17°35 | W29 |
| T 30 | 14 31 48 | 9♌45'47 | 11♌55 | 18♌ 4 | 25♋36 | 10♍24 | 15♋13 | 29♌28 | 27♍56 | 21♌ 4 | 11♏30 | 12♌14 | 12♌29 | 7♌ 8 | 17♌38 | T 30 |

Delta T = 18m08s

ASTRODIENST EPHEMERIS for the year 2567
geocentric

MAY 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♄ | ♃ | ♁ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------|---------|---------|--------|--------|--------|--------|---------|-------|--------|--------|-------|-------|--------|------|-----|
| F 1 | 14 35 45 | 10♃44'22 | 23♂52 | 20♂ 9 | 26♂22 | 10°R 1 | 15♂24 | 29°D28 | 27°R54 | 21♁ 5 | 11♂32 | 12°R11 | 12♁26 | 7♁15 | 17♂42 | F 1 | |
| S 2 | 14 39 42 | 11°42'54 | 5♁42 | 22°12 | 27° 9 | 9♂39 | 15°35 | 29♁28 | 27♂51 | 21° 6 | 11°33 | 12♁11 | 12°23 | 7°21 | 17°46 | S 2 | |
| S 3 | 14 43 38 | 12°41'25 | 17°31 | 24°14 | 27°57 | 9°16 | 15°46 | 29°28 | 27°49 | 21° 7 | 11°34 | 12°11 | 12°20 | 7°28 | 17°50 | S 3 | |
| M 4 | 14 47 35 | 13°39'54 | 29°23 | 26°14 | 28°46 | 8°53 | 15°57 | 29°28 | 27°46 | 21° 8 | 11°36 | 12°10 | 12°16 | 7°35 | 17°54 | M 4 | |
| T 5 | 14 51 31 | 14°38'22 | 11♂24 | 28°11 | 29°35 | 8°31 | 16° 8 | 29°29 | 27°44 | 21° 9 | 11°37 | 12° 8 | 12°13 | 7°41 | 17°57 | T 5 | |
| W 6 | 14 55 28 | 15°36'48 | 23°39 | 0♂II 6 | 0♂V25 | 8° 8 | 16°18 | 29°29 | 27°42 | 21°10 | 11°38 | 12° 4 | 12°10 | 7°48 | 18° 1 | W 6 | |
| T 7 | 14 59 24 | 16°35'12 | 6♂V13 | 1°57 | 1°16 | 7°46 | 16°29 | 29°30 | 27°39 | 21°12 | 11°40 | 11°57 | 12° 7 | 7°55 | 18° 5 | T 7 | |
| F 8 | 15 3 21 | 17°33'35 | 19° 7 | 3°46 | 2° 8 | 7°23 | 16°39 | 29°30 | 27°37 | 21°13 | 11°41 | 11°47 | 12° 4 | 8° 1 | 18° 9 | F 8 | |
| S 9 | 15 7 17 | 18°31'56 | 2♂22 | 5°32 | 3° 0 | 7° 1 | 16°49 | 29°31 | 27°34 | 21°14 | 11°42 | 11°36 | 12° 0 | 8° 8 | 18°13 | S 9 | |
| S 10 | 15 11 14 | 19°30'16 | 15°58 | 7°14 | 3°53 | 6°40 | 17° 0 | 29°32 | 27°32 | 21°15 | 11°43 | 11°24 | 11°57 | 8°15 | 18°17 | S 10 | |
| M 11 | 15 15 11 | 20°28'34 | 29°52 | 8°52 | 4°46 | 6°18 | 17°10 | 29°33 | 27°29 | 21°16 | 11°45 | 11°12 | 11°54 | 8°21 | 18°20 | M 11 | |
| T 12 | 15 19 7 | 21°26'50 | 13♂II59 | 10°27 | 5°40 | 5°57 | 17°20 | 29°34 | 27°27 | 21°18 | 11°46 | 11° 1 | 11°51 | 8°28 | 18°24 | T 12 | |
| W 13 | 15 23 4 | 22°25'04 | 28°14 | 11°57 | 6°34 | 5°37 | 17°29 | 29°36 | 27°24 | 21°19 | 11°47 | 10°53 | 11°48 | 8°35 | 18°28 | W 13 | |
| T 14 | 15 27 0 | 23°23'17 | 12♁32 | 13°24 | 7°29 | 5°17 | 17°39 | 29°37 | 27°22 | 21°20 | 11°48 | 10°48 | 11°45 | 8°41 | 18°32 | T 14 | |
| F 15 | 15 30 57 | 24°21'27 | 26°49 | 14°47 | 8°25 | 4°57 | 17°49 | 29°38 | 27°19 | 21°22 | 11°49 | 10°46 | 11°41 | 8°48 | 18°36 | F 15 | |
| S 16 | 15 34 53 | 25°19'36 | 11♁ 2 | 16° 5 | 9°21 | 4°38 | 17°58 | 29°40 | 27°16 | 21°23 | 11°51 | 10°D45 | 11°38 | 8°54 | 18°39 | S 16 | |
| S 17 | 15 38 50 | 26°17'42 | 25°10 | 17°19 | 10°17 | 4°19 | 18° 7 | 29°42 | 27°14 | 21°24 | 11°52 | 10°R46 | 11°35 | 9° 1 | 18°43 | S 17 | |
| M 18 | 15 42 46 | 27°15'46 | 9♂II12 | 18°29 | 11°14 | 4° 1 | 18°17 | 29°43 | 27°11 | 21°26 | 11°53 | 10°45 | 11°32 | 9° 8 | 18°47 | M 18 | |
| T 19 | 15 46 43 | 28°13'49 | 23° 6 | 19°35 | 12°11 | 3°44 | 18°26 | 29°45 | 27° 9 | 21°27 | 11°54 | 10°43 | 11°29 | 9°14 | 18°51 | T 19 | |
| W 20 | 15 50 40 | 29°11'50 | 6♂II53 | 20°36 | 13° 9 | 3°27 | 18°35 | 29°47 | 27° 6 | 21°29 | 11°55 | 10°38 | 11°26 | 9°21 | 18°55 | W 20 | |
| T 21 | 15 54 36 | 0♂II 9'48 | 20°51 | 21°33 | 14° 7 | 3°11 | 18°44 | 29°49 | 27° 4 | 21°30 | 11°56 | 10°31 | 11°22 | 9°28 | 18°58 | T 21 | |
| F 22 | 15 58 33 | 1° 7'45 | 3♂II58 | 22°25 | 15° 6 | 2°55 | 18°52 | 29°51 | 27° 1 | 21°32 | 11°57 | 10°22 | 11°19 | 9°34 | 19° 2 | F 22 | |
| S 23 | 16 2 29 | 2° 5'41 | 17°13 | 23°13 | 16° 4 | 2°41 | 19° 1 | 29°54 | 26°59 | 21°34 | 11°58 | 10°11 | 11°16 | 9°41 | 19° 6 | S 23 | |
| S 24 | 16 6 26 | 3° 3'35 | 0♂II15 | 23°56 | 17° 4 | 2°27 | 19° 9 | 29°56 | 26°56 | 21°35 | 11°59 | 9°59 | 11°13 | 9°48 | 19°10 | S 24 | |
| M 25 | 16 10 22 | 4° 1'28 | 13° 1 | 24°34 | 18° 3 | 2°13 | 19°18 | 29°58 | 26°54 | 21°37 | 12° 0 | 9°48 | 11°10 | 9°54 | 19°13 | M 25 | |
| T 26 | 16 14 19 | 4°59'19 | 25°33 | 25° 7 | 19° 3 | 2° 1 | 19°26 | 0♂II 1 | 26°51 | 21°38 | 12° 1 | 9°39 | 11° 6 | 10° 1 | 19°17 | T 26 | |
| W 27 | 16 18 15 | 5°57'08 | 7♂II50 | 25°36 | 20° 4 | 1°49 | 19°34 | 0° 4 | 26°49 | 21°40 | 12° 2 | 9°32 | 11° 3 | 10° 8 | 19°21 | W 27 | |
| T 28 | 16 22 12 | 6°54'57 | 19°54 | 25°59 | 21° 4 | 1°38 | 19°42 | 0° 6 | 26°46 | 21°42 | 12° 3 | 9°28 | 11° 0 | 10°14 | 19°24 | T 28 | |
| F 29 | 16 26 9 | 7°52'44 | 1♁49 | 26°18 | 22° 5 | 1°28 | 19°49 | 0° 9 | 26°44 | 21°43 | 12° 4 | 9°26 | 10°57 | 10°21 | 19°28 | F 29 | |
| S 30 | 16 30 5 | 8°50'30 | 13°38 | 26°32 | 23° 6 | 1°19 | 19°57 | 0°12 | 26°41 | 21°45 | 12° 5 | 9°D26 | 10°54 | 10°28 | 19°32 | S 30 | |
| S 31 | 16 34 2 | 9♂II48'15 | 25♁26 | 26♂II41 | 24♂V 8 | 1♂II10 | 20♂H 5 | 0♂II15 | 26♂II39 | 21♁47 | 12♂V 6 | 9♁27 | 10♁51 | 10♁34 | 19♂H35 | S 31 | |

Delta T = 18m08s

JUNE 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♄ | ♃ | ♁ | ♂ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|------------|---------|---------|--------|--------|--------|--------|---------|-------|--------|-------|-------|-------|--------|------|-----|
| M 1 | 16 37 58 | 10♂II45'59 | 7♂H18 | 26°R45 | 25♂V10 | 1°R 2 | 20♂H12 | 0♂II18 | 26°R36 | 21♁49 | 12♂V 7 | 9°R27 | 10♁47 | 10♁41 | 19♂H39 | M 1 | |
| T 2 | 16 41 55 | 11°43'42 | 19°20 | 26♂II45 | 26°12 | 0♂II55 | 20°19 | 0°22 | 26♂II34 | 21°50 | 12° 8 | 9♁27 | 10°44 | 10°47 | 19°43 | T 2 | |
| W 3 | 16 45 51 | 12°41'23 | 1♂V36 | 26°40 | 27°14 | 0°49 | 20°26 | 0°25 | 26°32 | 21°52 | 12° 9 | 9°25 | 10°41 | 10°54 | 19°46 | W 3 | |
| T 4 | 16 49 48 | 13°39'04 | 14°12 | 26°30 | 28°17 | 0°43 | 20°33 | 0°28 | 26°29 | 21°54 | 12° 9 | 9°21 | 10°38 | 11° 1 | 19°50 | T 4 | |
| F 5 | 16 53 44 | 14°36'44 | 27°10 | 26°17 | 29°20 | 0°39 | 20°40 | 0°32 | 26°27 | 21°56 | 12°10 | 9°15 | 10°35 | 11° 7 | 19°53 | F 5 | |
| S 6 | 16 57 41 | 15°34'23 | 10♂II34 | 25°59 | 0♂II23 | 0°35 | 20°46 | 0°35 | 26°24 | 21°58 | 12°11 | 9° 8 | 10°32 | 11°14 | 19°57 | S 6 | |
| S 7 | 17 1 38 | 16°32'01 | 8♂II22 | 25°38 | 1°26 | 0°32 | 20°53 | 0°39 | 26°22 | 22° 0 | 12°12 | 8°59 | 10°28 | 11°21 | 20° 0 | S 7 | |
| M 8 | 17 5 34 | 17°29'38 | 8♂II32 | 25°14 | 2°30 | 0°30 | 20°59 | 0°43 | 26°20 | 22° 1 | 12°13 | 8°51 | 10°25 | 11°27 | 20° 4 | M 8 | |
| T 9 | 17 9 31 | 18°27'14 | 23° 0 | 24°47 | 3°33 | 0°28 | 21° 5 | 0°47 | 26°18 | 22° 3 | 12°13 | 8°44 | 10°22 | 11°34 | 20° 7 | T 9 | |
| W 10 | 17 13 27 | 19°24'49 | 7♂II39 | 24°17 | 4°37 | 0°D28 | 21°11 | 0°51 | 26°15 | 22° 5 | 12°14 | 8°38 | 10°19 | 11°41 | 20°11 | W 10 | |
| T 11 | 17 17 24 | 20°22'22 | 22°21 | 23°46 | 5°42 | 0°28 | 21°17 | 0°55 | 26°13 | 22° 7 | 12°15 | 8°35 | 10°16 | 11°47 | 20°14 | T 11 | |
| F 12 | 17 21 20 | 21°19'55 | 7♂II 1 | 23°13 | 6°46 | 0°29 | 21°22 | 0°59 | 26°11 | 22° 9 | 12°15 | 8°D34 | 10°12 | 11°54 | 20°18 | F 12 | |
| S 13 | 17 25 17 | 22°17'26 | 21°33 | 22°40 | 7°50 | 0°31 | 21°28 | 1° 3 | 26° 9 | 22°11 | 12°16 | 8°35 | 10° 9 | 12° 1 | 20°21 | S 13 | |
| S 14 | 17 29 14 | 23°14'56 | 5♂II52 | 22° 6 | 8°55 | 0°33 | 21°33 | 1° 7 | 26° 6 | 22°13 | 12°17 | 8°36 | 10° 6 | 12° 7 | 20°24 | S 14 | |
| M 15 | 17 33 10 | 24°12'24 | 19°58 | 21°33 | 10° 0 | 0°37 | 21°38 | 1°12 | 26° 4 | 22°15 | 12°17 | 8°R37 | 10° 3 | 12°14 | 20°28 | M 15 | |
| T 16 | 17 37 7 | 25° 9'52 | 3♂II48 | 21° 1 | 11° 5 | 0°41 | 21°43 | 1°16 | 26° 2 | 22°17 | 12°18 | 8°36 | 10° 0 | 12°20 | 20°31 | T 16 | |
| W 17 | 17 41 3 | 26° 7'18 | 17°24 | 20°31 | 12°10 | 0°46 | 21°48 | 1°21 | 26° 0 | 22°19 | 12°18 | 8°35 | 9°57 | 12°27 | 20°34 | W 17 | |
| T 18 | 17 45 0 | 27° 4'43 | 0♂II45 | 20° 2 | 13°16 | 0°51 | 21°53 | 1°25 | 25°58 | 22°21 | 12°19 | 8°31 | 9°53 | 12°34 | 20°38 | T 18 | |
| F 19 | 17 48 56 | 28° 2'07 | 13°52 | 19°36 | 14°22 | 0°58 | 21°57 | 1°30 | 25°56 | 22°23 | 12°19 | 8°25 | 9°50 | 12°40 | 20°41 | F 19 | |
| S 20 | 17 52 53 | 28°59'30 | 26°45 | 19°13 | 15°27 | 1° 5 | 22° 1 | 1°35 | 25°54 | 22°25 | 12°20 | 8°19 | 9°47 | 12°47 | 20°44 | S 20 | |
| S 21 | 17 56 49 | 29°56'52 | 9♂II26 | 18°53 | 16°33 | 1°12 | 22° 5 | 1°40 | 25°52 | 22°28 | 12°20 | 8°12 | 9°44 | 12°54 | 20°47 | S 21 | |
| M 22 | 18 0 46 | 0♂II54'13 | 21°54 | 18°37 | 17°39 | 1°21 | 22° 9 | 1°45 | 25°50 | 22°30 | 12°21 | 8° 6 | 9°41 | 13° 0 | 20°50 | M 22 | |
| T 23 | 18 4 43 | 1°51'34 | 4♂II11 | 18°25 | 18°45 | 1°30 | 22°13 | 1°50 | 25°48 | 22°32 | 12°21 | 8° 1 | 9°38 | 13° 7 | 20°53 | T 23 | |
| W 24 | 18 8 39 | 2°48'54 | 16°17 | 18°17 | 19°52 | 1°39 | 22°16 | 1°55 | 25°46 | 22°34 | 12°22 | 7°57 | 9°34 | 13°14 | 20°56 | W 24 | |
| T 25 | 18 12 36 | 3°46'13 | 28°14 | 18°D13 | 20°58 | 1°50 | 22°20 | 2° 0 | 25°45 | 22°36 | 12°22 | 7°55 | 9°31 | 13°20 | 20°59 | T 25 | |
| F 26 | 18 16 32 | 4°43'32 | 10♁ 6 | 18°14 | 22° 5 | 2° 1 | 22°23 | 2° 5 | 25°43 | 22°38 | 12°23 | 7°D55 | 9°28 | 13°27 | 21° 2 | F 26 | |
| S 27 | 18 20 29 | 5°40'50 | 21°53 | 18°19 | 23°12 | 2°12 | 22°26 | 2°10 | 25°41 | 22°40 | 12°23 | 7°56 | 9°25 | 13°34 | 21° 5 | S 27 | |
| S 28 | 18 24 25 | 6°38'08 | 3♂H41 | 18°29 | 24°19 | 2°25 | 22°29 | 2°16 | 25°39 | 22°42 | 12°23 | 7°57 | 9°22 | 13°40 | 21° 8 | S 28 | |
| M 29 | 18 28 22 | 7°35'25 | 15°34 | 18°44 | 25°26 | 2°37 | 22°31 | 2°21 | 25°38 | 22°45 | 12°24 | 7°59 | 9°18 | 13°47 | 21°11 | M 29 | |
| T 30 | 18 32 18 | 8°32'42 | 27♂H35 | 19♂II 3 | 26♂H33 | 2♂II51 | 22♂H34 | 2♂II27 | 25♂II36 | 22♁47 | 12♂V24 | 8♁ 0 | 9♁15 | 13♁54 | 21♂H14 | T 30 | |

Delta T = 18m08s

ASTRODIENST EPHEMERIS for the year 2567
geocentric

JULY 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|------|--------|-------|--------|-------|------|-------|-------|------|
| W 1 | 18 36 15 | 9♄29'59 | 9♃51 | 19♂27 | 27♂40 | 3♂ 5 | 22♂36 | 2♂32 | 25°R34 | 22♄49 | 12♃24 | 8°R 1 | 9♁12 | 14♁ 0 | 21♂17 | W 1 |
| T 2 | 18 40 12 | 10°27'16 | 22°25 | 19°56 | 28°48 | 3°19 | 22°38 | 2°38 | 25♂33 | 22°51 | 12°24 | 8♁ 0 | 9° 9 | 14° 7 | 21°20 | T 2 |
| F 3 | 18 44 8 | 11°24'33 | 5♂21 | 20°29 | 29°55 | 3°35 | 22°40 | 2°43 | 25°31 | 22°53 | 12°25 | 7°58 | 9° 6 | 14°13 | 21°23 | F 3 |
| S 4 | 18 48 5 | 12°21'50 | 18°44 | 21° 6 | 1♂ 3 | 3°50 | 22°42 | 2°49 | 25°30 | 22°55 | 12°25 | 7°56 | 9° 3 | 14°20 | 21°25 | S 4 |
| S 5 | 18 52 1 | 13°19'06 | 2♂33 | 21°48 | 2°11 | 4° 7 | 22°43 | 2°55 | 25°28 | 22°58 | 12°25 | 7°52 | 8°59 | 14°27 | 21°28 | S 5 |
| M 6 | 18 55 58 | 14°16'23 | 16°48 | 22°35 | 3°19 | 4°23 | 22°45 | 3° 1 | 25°27 | 23° 0 | 12°25 | 7°49 | 8°56 | 14°33 | 21°31 | M 6 |
| T 7 | 18 59 54 | 15°13'40 | 1♄26 | 23°25 | 4°27 | 4°41 | 22°46 | 3° 7 | 25°26 | 23° 2 | 12°25 | 7°46 | 8°53 | 14°40 | 21°33 | T 7 |
| W 8 | 19 3 51 | 16°10'56 | 16°19 | 24°20 | 5°35 | 4°59 | 22°47 | 3°13 | 25°24 | 23° 4 | 12°25 | 7°44 | 8°50 | 14°47 | 21°36 | W 8 |
| T 9 | 19 7 48 | 17° 8'12 | 1♂20 | 25°19 | 6°43 | 5°17 | 22°47 | 3°19 | 25°23 | 23° 7 | 12°26 | 7°D43 | 8°47 | 14°53 | 21°38 | T 9 |
| F 10 | 19 11 44 | 18° 5'28 | 16°21 | 26°22 | 7°51 | 5°36 | 22°48 | 3°25 | 25°22 | 23° 9 | 12°26 | 7°43 | 8°44 | 15° 0 | 21°41 | F 10 |
| S 11 | 19 15 41 | 19° 2'43 | 1♂13 | 27°30 | 9° 0 | 5°55 | 22°48 | 3°31 | 25°21 | 23°11 | 12°26 | 7°44 | 8°40 | 15° 7 | 21°43 | S 11 |
| S 12 | 19 19 37 | 19°59'58 | 15°50 | 28°41 | 10° 8 | 6°15 | 22°R48 | 3°37 | 25°20 | 23°13 | 12°R26 | 7°45 | 8°37 | 15°13 | 21°46 | S 12 |
| M13 | 19 23 34 | 20°57'13 | 0♄ 8 | 29°56 | 11°17 | 6°36 | 22°48 | 3°43 | 25°19 | 23°15 | 12°26 | 7°46 | 8°34 | 15°20 | 21°48 | M13 |
| T 14 | 19 27 30 | 21°54'27 | 14° 4 | 1♄15 | 12°26 | 6°56 | 22°48 | 3°50 | 25°18 | 23°18 | 12°26 | 7°47 | 8°31 | 15°27 | 21°50 | T 14 |
| W15 | 19 31 27 | 22°51'41 | 27°39 | 2°38 | 13°34 | 7°18 | 22°47 | 3°56 | 25°17 | 23°20 | 12°26 | 7°R47 | 8°28 | 15°33 | 21°53 | W15 |
| T 16 | 19 35 23 | 23°48'55 | 10♂53 | 4° 5 | 14°43 | 7°39 | 22°47 | 4° 3 | 25°16 | 23°22 | 12°26 | 7°47 | 8°24 | 15°40 | 21°55 | T 16 |
| F 17 | 19 39 20 | 24°46'08 | 23°48 | 5°36 | 15°52 | 8° 2 | 22°46 | 4° 9 | 25°15 | 23°24 | 12°25 | 7°46 | 8°21 | 15°46 | 21°57 | F 17 |
| S 18 | 19 43 17 | 25°43'22 | 6♂26 | 7°10 | 17° 1 | 8°24 | 22°45 | 4°16 | 25°14 | 23°27 | 12°25 | 7°44 | 8°18 | 15°53 | 21°59 | S 18 |
| S 19 | 19 47 13 | 26°40'35 | 18°51 | 8°48 | 18°11 | 8°47 | 22°44 | 4°22 | 25°13 | 23°29 | 12°25 | 7°42 | 8°15 | 16° 0 | 22° 1 | S 19 |
| M20 | 19 51 10 | 27°37'48 | 1♄ 4 | 10°29 | 19°20 | 9°11 | 22°42 | 4°29 | 25°12 | 23°31 | 12°25 | 7°41 | 8°12 | 16° 6 | 22° 3 | M20 |
| T 21 | 19 55 6 | 28°35'02 | 13° 8 | 12°14 | 20°29 | 9°34 | 22°41 | 4°35 | 25°12 | 23°33 | 12°25 | 7°40 | 8° 9 | 16°13 | 22° 5 | T 21 |
| W22 | 19 59 3 | 29°32'15 | 25° 4 | 14° 2 | 21°39 | 9°59 | 22°39 | 4°42 | 25°11 | 23°36 | 12°25 | 7°39 | 8° 5 | 16°20 | 22° 7 | W22 |
| T 23 | 20 2 59 | 0♄29'29 | 6♁55 | 15°53 | 22°48 | 10°23 | 22°37 | 4°49 | 25°11 | 23°38 | 12°25 | 7°D39 | 8° 2 | 16°26 | 22° 9 | T 23 |
| F 24 | 20 6 56 | 1°26'42 | 18°43 | 17°47 | 23°58 | 10°48 | 22°35 | 4°56 | 25°10 | 23°40 | 12°24 | 7°39 | 7°59 | 16°33 | 22°11 | F 24 |
| S 25 | 20 10 52 | 2°23'57 | 0♂31 | 19°43 | 25° 7 | 11°13 | 22°32 | 5° 3 | 25° 9 | 23°42 | 12°24 | 7°40 | 7°56 | 16°40 | 22°13 | S 25 |
| S 26 | 20 14 49 | 3°21'11 | 12°21 | 21°42 | 26°17 | 11°39 | 22°30 | 5° 9 | 25° 9 | 23°44 | 12°24 | 7°40 | 7°53 | 16°46 | 22°14 | S 26 |
| M27 | 20 18 46 | 4°18'26 | 24°16 | 23°43 | 27°27 | 12° 5 | 22°27 | 5°16 | 25° 9 | 23°47 | 12°23 | 7°41 | 7°50 | 16°53 | 22°16 | M27 |
| T 28 | 20 22 42 | 5°15'42 | 6♃20 | 25°46 | 28°37 | 12°32 | 22°24 | 5°23 | 25° 8 | 23°49 | 12°23 | 7°41 | 7°46 | 17° 0 | 22°18 | T 28 |
| W29 | 20 26 39 | 6°12'58 | 18°37 | 27°51 | 29°47 | 12°58 | 22°21 | 5°30 | 25° 8 | 23°51 | 12°23 | 7°41 | 7°43 | 17° 6 | 22°19 | W29 |
| T 30 | 20 30 35 | 7°10'15 | ♂10 | 29°56 | 0♄57 | 13°25 | 22°17 | 5°37 | 25° 8 | 23°53 | 12°22 | 7°41 | 7°40 | 17°13 | 22°21 | T 30 |
| F 31 | 20 34 32 | 8♄ 7'33 | 14♂ 3 | 2♄ 3 | 2♄ 7 | 13♂53 | 22♂14 | 5♂44 | 25♂ 8 | 23♄55 | 12♃22 | 7♁41 | 7♁37 | 17♁20 | 22♂22 | F 31 |

Delta T = 18m09s

AUGUST 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|------|--------|-------|--------|-------|------|-------|--------|------|
| S 1 | 20 38 28 | 9♄ 4'52 | 27♂19 | 4♄10 | 3♄17 | 14♂20 | 22°R10 | 5♂51 | 25°R 7 | 23♄58 | 12°R22 | 7♁41 | 7♁34 | 17♁26 | 22♂24 | S 1 |
| S 2 | 20 42 25 | 10° 2'12 | 11♂ 2 | 6°18 | 4°28 | 14°49 | 22♂ 6 | 5°59 | 25♂ 7 | 24° 0 | 12♃21 | 7°41 | 7°30 | 17°33 | 22°25 | S 2 |
| M 3 | 20 46 21 | 10°59'32 | 25°11 | 8°25 | 5°38 | 15°17 | 22° 2 | 6° 6 | 25°D 7 | 24° 2 | 12°21 | 7°42 | 7°27 | 17°39 | 22°27 | M 3 |
| T 4 | 20 50 18 | 11°56'53 | 9♄44 | 10°33 | 6°49 | 15°46 | 21°58 | 6°13 | 25° 7 | 24° 4 | 12°20 | 7°42 | 7°24 | 17°46 | 22°28 | T 4 |
| W 5 | 20 54 15 | 12°54'15 | 24°38 | 12°40 | 7°59 | 16°15 | 21°54 | 6°20 | 25° 7 | 24° 6 | 12°20 | 7°42 | 7°21 | 17°53 | 22°29 | W 5 |
| T 6 | 20 58 11 | 13°51'38 | 9♄44 | 14°46 | 9°10 | 16°44 | 21°49 | 6°27 | 25° 8 | 24° 8 | 12°19 | 7°R42 | 7°18 | 17°59 | 22°30 | T 6 |
| F 7 | 21 2 8 | 14°49'02 | 24°56 | 16°51 | 10°20 | 17°13 | 21°45 | 6°35 | 25° 8 | 24°10 | 12°19 | 7°42 | 7°15 | 18° 6 | 22°32 | F 7 |
| S 8 | 21 6 4 | 15°46'26 | 10♂ 2 | 18°55 | 11°31 | 17°43 | 21°40 | 6°42 | 25° 8 | 24°12 | 12°18 | 7°41 | 7°11 | 18°13 | 22°33 | S 8 |
| S 9 | 21 10 1 | 16°43'50 | 24°55 | 20°58 | 12°42 | 18°14 | 21°35 | 6°49 | 25° 8 | 24°15 | 12°18 | 7°41 | 7° 8 | 18°19 | 22°34 | S 9 |
| M10 | 21 13 57 | 17°41'16 | 9♄27 | 22°59 | 13°53 | 18°44 | 21°29 | 6°57 | 25° 9 | 24°17 | 12°17 | 7°39 | 7° 5 | 18°26 | 22°35 | M10 |
| T 11 | 21 17 54 | 18°38'41 | 23°34 | 25° 0 | 15° 4 | 19°15 | 21°24 | 7° 4 | 25° 9 | 24°19 | 12°16 | 7°38 | 7° 2 | 18°33 | 22°36 | T 11 |
| W12 | 21 21 50 | 19°36'08 | 7♂15 | 26°59 | 16°15 | 19°46 | 21°19 | 7°11 | 25° 9 | 24°21 | 12°16 | 7°38 | 6°59 | 18°39 | 22°36 | W12 |
| T 13 | 21 25 47 | 20°33'35 | 20°30 | 28°56 | 17°26 | 20°17 | 21°13 | 7°19 | 25°10 | 24°23 | 12°15 | 7°D37 | 6°56 | 18°46 | 22°37 | T 13 |
| F 14 | 21 29 44 | 21°31'03 | 3♂21 | 0♂52 | 18°37 | 20°49 | 21° 7 | 7°26 | 25°10 | 24°25 | 12°14 | 7°38 | 6°52 | 18°53 | 22°38 | F 14 |
| S 15 | 21 33 40 | 22°28'31 | 15°53 | 2°46 | 19°48 | 21°21 | 21° 1 | 7°34 | 25°11 | 24°27 | 12°14 | 7°38 | 6°49 | 18°59 | 22°39 | S 15 |
| S 16 | 21 37 37 | 23°26'00 | 28° 8 | 4°39 | 21° 0 | 21°53 | 20°55 | 7°41 | 25°12 | 24°29 | 12°13 | 7°40 | 6°46 | 19° 6 | 22°39 | S 16 |
| M17 | 21 41 33 | 24°23'30 | 10♄12 | 6°30 | 22°11 | 22°25 | 20°49 | 7°49 | 25°12 | 24°31 | 12°12 | 7°41 | 6°43 | 19°13 | 22°40 | M17 |
| T 18 | 21 45 30 | 25°21'01 | 22° 7 | 8°20 | 23°23 | 22°57 | 20°43 | 7°56 | 25°13 | 24°33 | 12°12 | 7°42 | 6°40 | 19°19 | 22°40 | T 18 |
| W19 | 21 49 26 | 26°18'32 | 3♁57 | 10° 8 | 24°34 | 23°30 | 20°36 | 8° 4 | 25°14 | 24°35 | 12°11 | 7°R43 | 6°36 | 19°26 | 22°41 | W19 |
| T 20 | 21 53 23 | 27°16'05 | 15°44 | 11°54 | 25°46 | 24° 3 | 20°30 | 8°11 | 25°15 | 24°37 | 12°10 | 7°43 | 6°33 | 19°32 | 22°41 | T 20 |
| F 21 | 21 57 19 | 28°13'38 | 27°33 | 13°39 | 26°57 | 24°37 | 20°23 | 8°19 | 25°16 | 24°39 | 12° 9 | 7°42 | 6°30 | 19°39 | 22°42 | F 21 |
| S 22 | 22 1 16 | 29°11'13 | 9♂24 | 15°23 | 28° 9 | 25°10 | 20°16 | 8°27 | 25°17 | 24°41 | 12° 8 | 7°39 | 6°27 | 19°46 | 22°42 | S 22 |
| S 23 | 22 5 13 | 0♂ 8'48 | 21°19 | 17° 5 | 29°21 | 25°44 | 20° 9 | 8°34 | 25°18 | 24°43 | 12° 8 | 7°36 | 6°24 | 19°52 | 22°42 | S 23 |
| M24 | 22 9 9 | 1° 6'25 | 3♃22 | 18°45 | 0♄32 | 26°18 | 20° 2 | 8°42 | 25°19 | 24°44 | 12° 7 | 7°33 | 6°21 | 19°59 | 22°42 | M24 |
| T 25 | 22 13 6 | 2° 4'04 | 15°33 | 20°24 | 1°44 | 26°52 | 19°55 | 8°49 | 25°20 | 24°46 | 12° 6 | 7°29 | 6°17 | 20° 6 | 22°43 | T 25 |
| W26 | 22 17 2 | 3° 1'43 | 27°56 | 22° 1 | 2°56 | 27°26 | 19°48 | 8°57 | 25°21 | 24°48 | 12° 5 | 7°25 | 6°14 | 20°12 | 22°43 | W26 |
| T 27 | 22 20 59 | 3°59'25 | 10♄33 | 23°38 | 4° 8 | 28° 1 | 19°41 | 9° 5 | 25°22 | 24°50 | 12° 4 | 7°22 | 6°11 | 20°19 | 22°R43 | T 27 |
| F 28 | 22 24 55 | 4°57'07 | 23°26 | 25°12 | 5°20 | 28°35 | 19°33 | 9°12 | 25°23 | 24°52 | 12° 3 | 7°20 | 6° 8 | 20°26 | 22°43 | F 28 |
| S 29 | 22 28 52 | 5°54'52 | 6♂39 | 26°45 | 6°33 | 29°10 | 19°26 | 9°20 | 25°25 | 24°54 | 12° 2 | 7°D20 | 6° 5 | 20°32 | 22°43 | S 29 |
| S 30 | 22 32 48 | 6°52'38 | 20°13 | 28°17 | 7°45 | 29°46 | 19°18 | 9°28 | 25°26 | 24°55 | 12° 2 | 7°21 | 6° 2 | 20°39 | 22°42 | S 30 |
| M31 | 22 36 45 | 7♂50'26 | 4♄10 | 29♂47 | 8♄57 | 0♂21 | 19♂11 | 9♂35 | 25♂28 | 24♄57 | 12♃ 1 | 7♁22 | 5♁58 | 20♁46 | 22♂42 | M31 |

Delta T = 18m09s

ASTRODIENST EPHEMERIS for the year 2567
geocentric

SEPTEMBER 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|-------|--------|-------|------|-------|--------|------|
| T 1 | 22 40 42 | 8♎48'15 | 18♏30 | 1♑16 | 10♒10 | 0♃57 | 19°R 3 | 9♎43 | 25♎29 | 24♏59 | 12°R 0 | 7♎23 | 5♎55 | 20♎52 | 22°R42 | T 1 |
| W 2 | 22 44 38 | 9°46'06 | 3♏11 | 2°43 | 11°22 | 1°32 | 18♎55 | 9°50 | 25°31 | 25° 1 | 11°Y59 | 7°R24 | 5°52 | 20°59 | 22♃42 | W 2 |
| T 3 | 22 48 35 | 10°43'59 | 18° 8 | 4° 9 | 12°34 | 2° 8 | 18°47 | 9°58 | 25°32 | 25° 2 | 11°58 | 7°24 | 5°49 | 21° 6 | 22°41 | T 3 |
| F 4 | 22 52 31 | 11°41'53 | 3♎15 | 5°33 | 13°47 | 2°45 | 18°40 | 10° 6 | 25°34 | 25° 4 | 11°57 | 7°22 | 5°46 | 21°12 | 22°41 | F 4 |
| S 5 | 22 56 28 | 12°39'49 | 18°22 | 6°56 | 15° 0 | 3°21 | 18°32 | 10°13 | 25°35 | 25° 6 | 11°56 | 7°18 | 5°42 | 21°19 | 22°40 | S 5 |
| S 6 | 23 0 24 | 13°37'46 | 3♑20 | 8°17 | 16°12 | 3°58 | 18°24 | 10°21 | 25°37 | 25° 7 | 11°55 | 7°14 | 5°39 | 21°26 | 22°40 | S 6 |
| M 7 | 23 4 21 | 14°35'44 | 18° 0 | 9°36 | 17°25 | 4°34 | 18°16 | 10°29 | 25°39 | 25° 9 | 11°54 | 7° 8 | 5°36 | 21°32 | 22°39 | M 7 |
| T 8 | 23 8 17 | 15°33'44 | 2♎16 | 10°54 | 18°38 | 5°11 | 18° 8 | 10°36 | 25°41 | 25°10 | 11°53 | 7° 2 | 5°33 | 21°39 | 22°38 | T 8 |
| W 9 | 23 12 14 | 16°31'45 | 16° 4 | 12°10 | 19°50 | 5°48 | 18° 0 | 10°44 | 25°42 | 25°12 | 11°52 | 6°58 | 5°30 | 21°45 | 22°38 | W 9 |
| T 10 | 23 16 10 | 17°29'48 | 29°24 | 13°25 | 21° 3 | 6°26 | 17°52 | 10°52 | 25°44 | 25°13 | 11°51 | 6°55 | 5°27 | 21°52 | 22°37 | T 10 |
| F 11 | 23 20 7 | 18°27'52 | 12♎17 | 14°37 | 22°16 | 7° 3 | 17°44 | 10°59 | 25°46 | 25°15 | 11°49 | 6°53 | 5°23 | 21°59 | 22°36 | F 11 |
| S 12 | 23 24 4 | 19°25'57 | 24°48 | 15°48 | 23°29 | 7°41 | 17°36 | 11° 7 | 25°48 | 25°16 | 11°48 | 6°D53 | 5°20 | 22° 5 | 22°35 | S 12 |
| S 13 | 23 28 0 | 20°24'04 | 7♃ 1 | 16°57 | 24°42 | 8°18 | 17°28 | 11°14 | 25°50 | 25°18 | 11°47 | 6°54 | 5°17 | 22°12 | 22°34 | S 13 |
| M14 | 23 31 57 | 21°22'12 | 19° 0 | 18° 3 | 25°55 | 8°56 | 17°21 | 11°22 | 25°52 | 25°19 | 11°46 | 6°56 | 5°14 | 22°19 | 22°33 | M14 |
| T 15 | 23 35 53 | 22°20'21 | 0♎51 | 19° 8 | 27° 8 | 9°35 | 17°13 | 11°30 | 25°54 | 25°21 | 11°45 | 6°R57 | 5°11 | 22°25 | 22°32 | T 15 |
| W16 | 23 39 50 | 23°18'32 | 12°39 | 20°10 | 28°22 | 10°13 | 17° 5 | 11°37 | 25°57 | 25°22 | 11°44 | 6°57 | 5° 8 | 22°32 | 22°31 | W16 |
| T 17 | 23 43 46 | 24°16'45 | 24°27 | 21° 9 | 29°35 | 10°51 | 16°57 | 11°45 | 25°59 | 25°23 | 11°43 | 6°55 | 5° 4 | 22°39 | 22°30 | T 17 |
| F 18 | 23 47 43 | 25°14'59 | 6♎18 | 22° 6 | 0♎48 | 11°30 | 16°49 | 11°52 | 26° 1 | 25°25 | 11°42 | 6°51 | 5° 1 | 22°45 | 22°29 | F 18 |
| S 19 | 23 51 39 | 26°13'14 | 18°15 | 23° 0 | 2° 1 | 12° 9 | 16°42 | 12° 0 | 26° 3 | 25°26 | 11°41 | 6°45 | 4°58 | 22°52 | 22°28 | S 19 |
| S 20 | 23 55 36 | 27°11'31 | 0♎21 | 23°51 | 3°15 | 12°47 | 16°34 | 12° 7 | 26° 6 | 25°27 | 11°39 | 6°37 | 4°55 | 22°59 | 22°26 | S 20 |
| M21 | 23 59 33 | 28° 9'50 | 12°35 | 24°39 | 4°28 | 13°26 | 16°26 | 12°15 | 26° 8 | 25°29 | 11°38 | 6°28 | 4°52 | 23° 5 | 22°25 | M21 |
| T 22 | 0 3 29 | 29° 8'11 | 25° 0 | 25°24 | 5°42 | 14° 6 | 16°19 | 12°22 | 26°10 | 25°30 | 11°37 | 6°18 | 4°48 | 23°12 | 22°23 | T 22 |
| W23 | 0 7 26 | 0♑ 6'34 | 7♃37 | 26° 4 | 6°55 | 14°45 | 16°11 | 12°29 | 26°13 | 25°31 | 11°36 | 6° 9 | 4°45 | 23°19 | 22°22 | W23 |
| T 24 | 0 11 22 | 1° 4'59 | 20°25 | 26°41 | 8° 9 | 15°24 | 16° 4 | 12°37 | 26°15 | 25°32 | 11°35 | 6° 1 | 4°42 | 23°25 | 22°21 | T 24 |
| F 25 | 0 15 19 | 2° 3'26 | 3♎26 | 27°14 | 9°22 | 16° 4 | 15°56 | 12°44 | 26°18 | 25°33 | 11°34 | 5°55 | 4°39 | 23°32 | 22°19 | F 25 |
| S 26 | 0 19 15 | 3° 1'55 | 16°41 | 27°42 | 10°36 | 16°44 | 15°49 | 12°52 | 26°20 | 25°34 | 11°32 | 5°52 | 4°36 | 23°39 | 22°17 | S 26 |
| S 27 | 0 23 12 | 4° 0'27 | 0♑13 | 28° 5 | 11°50 | 17°24 | 15°42 | 12°59 | 26°23 | 25°35 | 11°31 | 5°D51 | 4°33 | 23°45 | 22°16 | S 27 |
| M28 | 0 27 8 | 4°59'00 | 14° 1 | 28°23 | 13° 4 | 18° 4 | 15°35 | 13° 6 | 26°26 | 25°36 | 11°30 | 5°51 | 4°29 | 23°52 | 22°14 | M28 |
| T 29 | 0 31 5 | 5°57'36 | 28° 6 | 28°35 | 14°18 | 18°44 | 15°28 | 13°14 | 26°28 | 25°37 | 11°29 | 5°51 | 4°26 | 23°58 | 22°12 | T 29 |
| W30 | 0 35 2 | 6♑56'14 | 12♒29 | 28°R41 | 15♎31 | 19♎24 | 15♎21 | 13♎21 | 26♎31 | 25♏38 | 11°Y28 | 5°R51 | 4♎23 | 24♎ 5 | 22♃10 | W30 |

Delta T = 18m09s

OCTOBER 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|-------|-------|--------|--------|-------|------|-------|--------|------|
| T 1 | 0 38 58 | 7♑54'54 | 27♒ 7 | 28°R41 | 16♎45 | 20♎ 5 | 15°R14 | 13♎28 | 26♎34 | 25♏39 | 11°R27 | 5°R50 | 4♎20 | 24♎12 | 22°R 9 | T 1 |
| F 2 | 0 42 55 | 8°53'36 | 11♎56 | 28♑34 | 17°59 | 20°45 | 15♎ 8 | 13°35 | 26°37 | 25°40 | 11°Y25 | 5♎46 | 4°17 | 24°18 | 22♃ 7 | F 2 |
| S 3 | 0 46 51 | 9°52'20 | 28°21 | 19°13 | 21°26 | 15° 1 | 13°42 | 13°42 | 26°39 | 25°41 | 11°24 | 5°39 | 4°13 | 24°25 | 22° 5 | S 3 |
| S 4 | 0 50 48 | 10°51'06 | 11♑36 | 28° 0 | 20°27 | 22° 7 | 14°55 | 13°49 | 26°42 | 25°42 | 11°23 | 5°30 | 4°10 | 24°32 | 22° 3 | S 4 |
| M 5 | 0 54 44 | 11°49'54 | 26°11 | 27°31 | 21°41 | 22°48 | 14°48 | 13°57 | 26°45 | 25°43 | 11°22 | 5°20 | 4° 7 | 24°38 | 22° 1 | M 5 |
| T 6 | 0 58 41 | 12°48'44 | 10♎25 | 26°56 | 22°56 | 23°29 | 14°42 | 14° 4 | 26°48 | 25°44 | 11°21 | 5° 9 | 4° 4 | 24°45 | 21°59 | T 6 |
| W 7 | 1 2 37 | 13°47'36 | 24°15 | 26°13 | 24°10 | 24°10 | 14°36 | 14°11 | 26°51 | 25°44 | 11°19 | 5° 0 | 4° 1 | 24°52 | 21°57 | W 7 |
| T 8 | 1 6 34 | 14°46'29 | 7♎38 | 25°23 | 25°24 | 24°51 | 14°30 | 14°18 | 26°54 | 25°45 | 11°18 | 4°52 | 3°58 | 24°58 | 21°54 | T 8 |
| F 9 | 1 10 31 | 15°45'25 | 20°35 | 24°27 | 26°38 | 25°33 | 14°25 | 14°25 | 26°57 | 25°46 | 11°17 | 4°47 | 3°54 | 25° 5 | 21°52 | F 9 |
| S 10 | 1 14 27 | 16°44'22 | 3♃ 7 | 23°26 | 27°53 | 26°14 | 14°19 | 14°31 | 27° 0 | 25°46 | 11°16 | 4°44 | 3°51 | 25°12 | 21°50 | S 10 |
| S 11 | 1 18 24 | 17°43'21 | 15°21 | 22°21 | 29° 7 | 26°56 | 14°14 | 14°38 | 27° 3 | 25°47 | 11°15 | 4°D44 | 3°48 | 25°18 | 21°48 | S 11 |
| M12 | 1 22 20 | 18°42'21 | 27°20 | 21°13 | 0♑21 | 27°38 | 14° 9 | 14°45 | 27° 6 | 25°48 | 11°14 | 4°44 | 3°45 | 25°25 | 21°45 | M12 |
| T 13 | 1 26 17 | 19°41'24 | 9♎11 | 20° 4 | 1°36 | 28°20 | 14° 3 | 14°52 | 27° 9 | 25°48 | 11°12 | 4°R44 | 3°42 | 25°32 | 21°43 | T 13 |
| W14 | 1 30 13 | 20°40'28 | 20°59 | 18°55 | 2°50 | 29° 2 | 13°59 | 14°59 | 27°13 | 25°49 | 11°11 | 4°43 | 3°39 | 25°38 | 21°41 | W14 |
| T 15 | 1 34 10 | 21°39'33 | 2♎48 | 17°49 | 4° 4 | 29°44 | 13°54 | 15° 5 | 27°16 | 25°49 | 11°10 | 4°39 | 3°35 | 25°45 | 21°38 | T 15 |
| F 16 | 1 38 6 | 22°38'41 | 14°44 | 16°48 | 5°19 | 0♑26 | 13°49 | 15°12 | 27°19 | 25°50 | 11° 9 | 4°34 | 3°32 | 25°52 | 21°36 | F 16 |
| S 17 | 1 42 3 | 23°37'50 | 26°48 | 15°52 | 6°33 | 1° 8 | 13°45 | 15°18 | 27°22 | 25°50 | 11° 8 | 4°25 | 3°29 | 25°58 | 21°33 | S 17 |
| S 18 | 1 46 0 | 24°37'01 | 9♎ 5 | 15° 5 | 7°48 | 1°51 | 13°41 | 15°25 | 27°26 | 25°50 | 11° 7 | 4°14 | 3°26 | 26° 5 | 21°31 | S 18 |
| M19 | 1 49 56 | 25°36'14 | 21°34 | 14°26 | 9° 3 | 2°33 | 13°37 | 15°31 | 27°29 | 25°51 | 11° 5 | 4° 1 | 3°23 | 26°12 | 21°28 | M19 |
| T 20 | 1 53 53 | 26°35'29 | 4♎17 | 13°57 | 10°17 | 3°16 | 13°33 | 15°38 | 27°32 | 25°51 | 11° 4 | 3°48 | 3°19 | 26°18 | 21°26 | T 20 |
| W21 | 1 57 49 | 27°34'47 | 17°13 | 13°39 | 11°32 | 3°59 | 13°29 | 15°44 | 27°35 | 25°51 | 11° 3 | 3°35 | 3°16 | 26°25 | 21°23 | W21 |
| T 22 | 2 1 46 | 28°34'06 | 0♎21 | 13°D32 | 12°46 | 4°42 | 13°25 | 15°51 | 27°39 | 25°52 | 11° 2 | 3°24 | 3°13 | 26°32 | 21°20 | T 22 |
| F 23 | 2 5 42 | 29°33'27 | 13°40 | 13°36 | 14° 1 | 5°25 | 13°22 | 15°57 | 27°42 | 25°52 | 11° 1 | 3°15 | 3°10 | 26°38 | 21°18 | F 23 |
| S 24 | 2 9 39 | 0♎32'51 | 27° 9 | 13°50 | 15°16 | 6° 8 | 13°19 | 16° 3 | 27°46 | 25°52 | 11° 0 | 3° 9 | 3° 7 | 26°45 | 21°15 | S 24 |
| S 25 | 2 13 35 | 1°32'17 | 10♑48 | 14°15 | 16°31 | 6°51 | 13°16 | 16° 9 | 27°49 | 25°52 | 10°59 | 3° 6 | 3° 4 | 26°52 | 21°12 | S 25 |
| M26 | 2 17 32 | 2°31'46 | 24°37 | 14°49 | 17°45 | 7°34 | 13°13 | 16°15 | 27°53 | 25°52 | 10°58 | 3° 5 | 3° 0 | 26°58 | 21°10 | M26 |
| T 27 | 2 21 29 | 3°31'16 | 8♒36 | 15°33 | 19° 0 | 8°17 | 13°11 | 16°21 | 27°56 | 25°53 | 10°57 | 3° 5 | 2°57 | 27° 5 | 21° 7 | T 27 |
| W28 | 2 25 25 | 4°30'49 | 22°45 | 16°24 | 20°15 | 9° 1 | 13° 8 | 16°27 | 28° 0 | 25°53 | 10°55 | 3° 5 | 2°54 | 27°11 | 21° 4 | W28 |
| T 29 | 2 29 22 | 5°30'24 | 7♎ 3 | 17°23 | 21°30 | 9°44 | 13° 6 | 16°33 | 28° 3 | 25°R53 | 10°54 | 3° 2 | 2°51 | 27°18 | 21° 1 | T 29 |
| F 30 | 2 33 18 | 6°30'02 | 21°27 | 18°29 | 22°45 | 10°28 | 13° 4 | 16°39 | 28° 7 | 25°53 | 10°53 | 2°57 | 2°48 | 27°25 | 20°59 | F 30 |
| S 31 | 2 37 15 | 7♎29'41 | 5♑55 | 19♑40 | 24♑ 0 | 11♃11 | 13♎ 3 | 16♎45 | 28♎10 | 25♏53 | 10°Y52 | 2♎49 | 2♎45 | 27♎31 | 20♃56 | S 31 |

Delta T = 18m10s

ASTRODIENST EPHEMERIS for the year 2567
geocentric

NOVEMBER 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|-------|--------|--------|--------|------|-------|--------|------|-----|
| S 1 | 2 41 11 | 8♉29°23 | 20♌19 | 20♌56 | 25♌15 | 11♌55 | 13°R 1 | 16♎51 | 28♌14 | 25°R52 | 10°R51 | 2°R39 | 2♌41 | 27♌38 | 20°R53 | S 1 | |
| M 2 | 2 45 8 | 9°29'07 | 4♌35 | 22°16 | 26°30 | 12°39 | 13°K 0 | 16°56 | 28°17 | 25♎52 | 10°Y50 | 2♌27 | 2°38 | 27°45 | 20♌50 | M 2 | |
| T 3 | 2 49 4 | 10°28'52 | 18°35 | 23°40 | 27°45 | 13°23 | 12°59 | 17° 2 | 28°21 | 25°52 | 10°49 | 2°15 | 2°35 | 27°51 | 20°47 | T 3 | |
| W 4 | 2 53 1 | 11°28'40 | 2♌16 | 25° 7 | 29° 0 | 14° 7 | 12°58 | 17° 7 | 28°25 | 25°52 | 10°48 | 2° 3 | 2°32 | 27°58 | 20°44 | W 4 | |
| T 5 | 2 56 58 | 12°28'30 | 15°34 | 26°37 | 0♌15 | 14°51 | 12°57 | 17°13 | 28°28 | 25°52 | 10°47 | 1°54 | 2°29 | 28° 5 | 20°41 | T 5 | |
| F 6 | 3 0 54 | 13°28'21 | 28°28 | 28° 9 | 1°30 | 15°35 | 12°56 | 17°18 | 28°32 | 25°52 | 10°46 | 1°47 | 2°25 | 28°11 | 20°38 | F 6 | |
| S 7 | 3 4 51 | 14°28'14 | 11♌ 1 | 29°42 | 2°45 | 16°20 | 12°56 | 17°23 | 28°35 | 25°51 | 10°45 | 1°43 | 2°22 | 28°18 | 20°36 | S 7 | |
| S 8 | 3 8 47 | 15°28'09 | 23°15 | 1♌17 | 4° 0 | 17° 4 | 12°D56 | 17°29 | 28°39 | 25°51 | 10°44 | 1°41 | 2°19 | 28°25 | 20°33 | S 8 | |
| M 9 | 3 12 44 | 16°28'05 | 5♌16 | 2°53 | 5°15 | 17°48 | 12°56 | 17°34 | 28°43 | 25°51 | 10°43 | 1°D41 | 2°16 | 28°31 | 20°30 | M 9 | |
| T 10 | 3 16 40 | 17°28'03 | 17° 8 | 4°30 | 6°30 | 18°33 | 12°56 | 17°39 | 28°46 | 25°50 | 10°42 | 1°R41 | 2°13 | 28°38 | 20°27 | T 10 | |
| W11 | 3 20 37 | 18°28'02 | 28°56 | 6° 7 | 7°45 | 19°17 | 12°57 | 17°44 | 28°50 | 25°50 | 10°42 | 1°41 | 2°10 | 28°45 | 20°24 | W11 | |
| T 12 | 3 24 33 | 19°28'03 | 10♌47 | 7°45 | 9° 1 | 20° 2 | 12°57 | 17°49 | 28°54 | 25°49 | 10°41 | 1°39 | 2° 6 | 28°51 | 20°21 | T 12 | |
| F 13 | 3 28 30 | 20°28'06 | 22°45 | 9°23 | 10°16 | 20°47 | 12°58 | 17°54 | 28°58 | 25°49 | 10°40 | 1°34 | 2° 3 | 28°58 | 20°18 | F 13 | |
| S 14 | 3 32 27 | 21°28'10 | 4♌54 | 11° 1 | 11°31 | 21°31 | 12°59 | 17°58 | 29° 1 | 25°48 | 10°39 | 1°27 | 2° 0 | 29° 5 | 20°15 | S 14 | |
| S 15 | 3 36 23 | 22°28'16 | 17°19 | 12°39 | 12°46 | 22°16 | 13° 1 | 18° 3 | 29° 5 | 25°48 | 10°38 | 1°17 | 1°57 | 29°11 | 20°12 | S 15 | |
| M16 | 3 40 20 | 23°28'23 | 0♌ 1 | 14°17 | 14° 1 | 23° 1 | 13° 2 | 18° 8 | 29° 9 | 25°47 | 10°37 | 1° 6 | 1°54 | 29°18 | 20° 9 | M16 | |
| T 17 | 3 44 16 | 24°28'32 | 13° 1 | 15°55 | 15°17 | 23°46 | 13° 4 | 18°12 | 29°12 | 25°47 | 10°36 | 0°54 | 1°50 | 29°25 | 20° 6 | T 17 | |
| W18 | 3 48 13 | 25°28'43 | 26°17 | 17°33 | 16°32 | 24°31 | 13° 6 | 18°17 | 29°16 | 25°46 | 10°36 | 0°43 | 1°47 | 29°31 | 20° 3 | W18 | |
| T 19 | 3 52 9 | 26°28'56 | 9♌49 | 19°11 | 17°47 | 25°16 | 13° 8 | 18°21 | 29°20 | 25°45 | 10°35 | 0°33 | 1°44 | 29°38 | 20° 0 | T 19 | |
| F 20 | 3 56 6 | 27°29'10 | 23°33 | 20°49 | 19° 2 | 26° 1 | 13°10 | 18°25 | 29°24 | 25°45 | 10°34 | 0°25 | 1°41 | 29°45 | 19°57 | F 20 | |
| S 21 | 4 0 2 | 28°29'27 | 7♌26 | 22°26 | 20°18 | 26°47 | 13°13 | 18°29 | 29°27 | 25°44 | 10°33 | 0°20 | 1°38 | 29°51 | 19°54 | S 21 | |
| S 22 | 4 3 59 | 29°29'45 | 21°25 | 24° 3 | 21°33 | 27°32 | 13°15 | 18°33 | 29°31 | 25°43 | 10°33 | 0°18 | 1°35 | 29°58 | 19°52 | S 22 | |
| M23 | 4 7 56 | 0♌30°05 | 5♌28 | 25°40 | 22°48 | 28°17 | 13°18 | 18°37 | 29°35 | 25°42 | 10°32 | 0°D18 | 1°31 | 0♌ 5 | 19°49 | M23 | |
| T 24 | 4 11 52 | 1°30'27 | 19°33 | 27°17 | 24° 3 | 29° 3 | 13°21 | 18°41 | 29°39 | 25°42 | 10°31 | 0°19 | 1°28 | 0°11 | 19°46 | T 24 | |
| W25 | 4 15 49 | 2°30'51 | 3♌40 | 28°53 | 25°19 | 29°48 | 13°25 | 18°45 | 29°42 | 25°41 | 10°31 | 0°R19 | 1°25 | 0°18 | 19°43 | W25 | |
| T 26 | 4 19 45 | 3°31'16 | 17°46 | 0♌29 | 26°34 | 0♌33 | 13°28 | 18°49 | 29°46 | 25°40 | 10°30 | 0°18 | 1°22 | 0°25 | 19°40 | T 26 | |
| F 27 | 4 23 42 | 4°31'44 | 1♌52 | 2° 5 | 27°49 | 1°19 | 13°32 | 18°52 | 29°50 | 25°39 | 10°29 | 0°15 | 1°19 | 0°31 | 19°37 | F 27 | |
| S 28 | 4 27 38 | 5°32'13 | 15°55 | 3°41 | 29° 5 | 2° 5 | 13°36 | 18°56 | 29°54 | 25°38 | 10°29 | 0° 9 | 1°16 | 0°38 | 19°34 | S 28 | |
| S 29 | 4 31 35 | 6°32'44 | 29°52 | 5°16 | 0♌20 | 2°50 | 13°40 | 18°59 | 29°57 | 25°37 | 10°28 | 0° 2 | 1°12 | 0°45 | 19°32 | S 29 | |
| M30 | 4 35 31 | 7♌33'17 | 13♌40 | 6♌51 | 1♌36 | 3♌36 | 13°K44 | 19°K 3 | 0♌ 1 | 25♎36 | 10°Y28 | 29°Z53 | 1♌ 9 | 0♌51 | 19°Z29 | M30 | |

Delta T = 18m10s

DECEMBER 2567

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|--------|--------|--------|------|--------|--------|--------|--------|-------|--------|------|-----|
| T 1 | 4 39 28 | 8♌33'52 | 27♌15 | 8♌26 | 2♌51 | 4♌22 | 13°K49 | 19°K 6 | 0♌ 5 | 25°R35 | 10°R27 | 29°R44 | 1♌ 6 | 0♌58 | 19°R26 | T 1 | |
| W 2 | 4 43 25 | 9°34'28 | 10♌36 | 10° 1 | 4° 6 | 5° 7 | 13°53 | 19° 9 | 0° 9 | 25♎34 | 10°Y27 | 29°Z35 | 1° 3 | 1° 5 | 19°Z23 | W 2 | |
| T 3 | 4 47 21 | 10°35'05 | 23°39 | 11°36 | 5°22 | 5°53 | 13°58 | 19°12 | 0°12 | 25°33 | 10°26 | 29°28 | 1° 0 | 1°11 | 19°21 | T 3 | |
| F 4 | 4 51 18 | 11°35'44 | 6♌24 | 13°10 | 6°37 | 6°39 | 14° 3 | 19°15 | 0°16 | 25°32 | 10°26 | 29°23 | 0°56 | 1°18 | 19°18 | F 4 | |
| S 5 | 4 55 14 | 12°36'24 | 18°51 | 14°44 | 7°53 | 7°25 | 14° 8 | 19°18 | 0°20 | 25°31 | 10°25 | 29°20 | 0°53 | 1°25 | 19°15 | S 5 | |
| S 6 | 4 59 11 | 13°37'05 | 1♌ 3 | 16°18 | 9° 8 | 8°11 | 14°13 | 19°21 | 0°23 | 25°30 | 10°25 | 29°D20 | 0°50 | 1°31 | 19°13 | S 6 | |
| M 7 | 5 3 7 | 14°37'48 | 13° 3 | 17°52 | 10°23 | 8°57 | 14°19 | 19°23 | 0°27 | 25°28 | 10°24 | 29°20 | 0°47 | 1°38 | 19°10 | M 7 | |
| T 8 | 5 7 4 | 15°38'31 | 24°55 | 19°26 | 11°39 | 9°43 | 14°25 | 19°26 | 0°31 | 25°27 | 10°24 | 29°22 | 0°44 | 1°45 | 19° 8 | T 8 | |
| W 9 | 5 11 0 | 16°39'15 | 6♌43 | 21° 0 | 12°54 | 10°29 | 14°31 | 19°28 | 0°34 | 25°26 | 10°23 | 29°23 | 0°41 | 1°51 | 19° 5 | W 9 | |
| T 10 | 5 14 57 | 17°40'01 | 18°34 | 22°34 | 14°10 | 11°15 | 14°37 | 19°31 | 0°38 | 25°25 | 10°23 | 29°R24 | 0°37 | 1°58 | 19° 2 | T 10 | |
| F 11 | 5 18 54 | 18°40'47 | 0♌32 | 24° 7 | 15°25 | 12° 2 | 14°43 | 19°33 | 0°42 | 25°23 | 10°23 | 29°23 | 0°34 | 2° 5 | 19° 0 | F 11 | |
| S 12 | 5 22 50 | 19°41'34 | 12°42 | 25°41 | 16°41 | 12°48 | 14°49 | 19°35 | 0°45 | 25°22 | 10°22 | 29°20 | 0°31 | 2°11 | 18°58 | S 12 | |
| S 13 | 5 26 47 | 20°42'22 | 25° 8 | 27°15 | 17°56 | 13°34 | 14°56 | 19°37 | 0°49 | 25°21 | 10°22 | 29°16 | 0°28 | 2°18 | 18°55 | S 13 | |
| M14 | 5 30 43 | 21°43'11 | 7♌55 | 28°48 | 19°12 | 14°20 | 15° 3 | 19°39 | 0°52 | 25°19 | 10°22 | 29°10 | 0°25 | 2°25 | 18°53 | M14 | |
| T 15 | 5 34 40 | 22°44'01 | 21° 3 | 0♌22 | 20°27 | 15° 6 | 15° 9 | 19°41 | 0°56 | 25°18 | 10°22 | 29° 4 | 0°22 | 2°31 | 18°50 | T 15 | |
| W16 | 5 38 36 | 23°44'52 | 4♌34 | 1°55 | 21°42 | 15°53 | 15°17 | 19°42 | 0°59 | 25°17 | 10°21 | 28°58 | 0°18 | 2°38 | 18°48 | W16 | |
| T 17 | 5 42 33 | 24°45'43 | 18°25 | 3°29 | 22°58 | 16°39 | 15°24 | 19°44 | 1° 3 | 25°15 | 10°21 | 28°53 | 0°15 | 2°45 | 18°46 | T 17 | |
| F 18 | 5 46 29 | 25°46'36 | 2♌33 | 5° 2 | 24°13 | 17°26 | 15°31 | 19°45 | 1° 6 | 25°14 | 10°21 | 28°49 | 0°12 | 2°51 | 18°44 | F 18 | |
| S 19 | 5 50 26 | 26°47'30 | 16°54 | 6°36 | 25°29 | 18°12 | 15°39 | 19°47 | 1°10 | 25°12 | 10°21 | 28°46 | 0° 9 | 2°58 | 18°41 | S 19 | |
| S 20 | 5 54 23 | 27°48'24 | 1♌21 | 8° 9 | 26°44 | 18°58 | 15°46 | 19°48 | 1°13 | 25°11 | 10°21 | 28°D46 | 0° 6 | 3° 5 | 18°39 | S 20 | |
| M21 | 5 58 19 | 28°49'20 | 15°50 | 9°42 | 28° 0 | 19°45 | 15°54 | 19°49 | 1°17 | 25°10 | 10°21 | 28°47 | 0° 3 | 3°11 | 18°37 | M21 | |
| T 22 | 6 2 16 | 29°50'17 | 0♌15 | 11°16 | 29°15 | 20°31 | 16° 2 | 19°50 | 1°20 | 25° 8 | 10°21 | 28°48 | 29°Z59 | 3°18 | 18°35 | T 22 | |
| W23 | 6 6 12 | 0♌51'15 | 14°34 | 12°49 | 0♌31 | 21°18 | 16°10 | 19°51 | 1°24 | 25° 7 | 10°21 | 28°50 | 29°56 | 3°25 | 18°33 | W23 | |
| T 24 | 6 10 9 | 1°52'14 | 28°44 | 14°22 | 1°46 | 22° 4 | 16°19 | 19°52 | 1°27 | 25° 5 | 10°21 | 28°R51 | 29°53 | 3°31 | 18°31 | T 24 | |
| F 25 | 6 14 5 | 2°53'14 | 12♌43 | 15°55 | 3° 2 | 22°51 | 16°27 | 19°52 | 1°30 | 25° 3 | 10°D21 | 28°50 | 29°50 | 3°38 | 18°29 | F 25 | |
| S 26 | 6 18 2 | 3°54'15 | 26°30 | 17°27 | 4°17 | 23°37 | 16°36 | 19°53 | 1°34 | 25° 2 | 10°21 | 28°49 | 29°47 | 3°45 | 18°27 | S 26 | |
| S 27 | 6 21 59 | 4°55'17 | 10♌ 5 | 19° 0 | 5°33 | 24°24 | 16°44 | 19°54 | 1°37 | 25° 0 | 10°21 | 28°46 | 29°43 | 3°51 | 18°26 | S 27 | |
| M28 | 6 25 55 | 5°56'20 | 23°27 | 20°32 | 6°48 | 25°10 | 16°53 | 19°54 | 1°40 | 24°59 | 10°21 | 28°43 | 29°40 | 3°58 | 18°24 | M28 | |
| T 29 | 6 29 52 | 6°57'23 | 6♌36 | 22° 4 | 8° 4 | 25°57 | 17° 2 | 19°54 | 1°43 | 24°57 | 10°21 | 28°39 | 29°37 | 4° 5 | 18°22 | T 29 | |
| W30 | 6 33 48 | 7°58'28 | 19°32 | 23°35 | 9°19 | 26°44 | 17°11 | 19°54 | 1°47 | 24°56 | 10°21 | 28°36 | 29°34 | 4°11 | 18°20 | W30 | |
| T 31 | 6 37 45 | 8♌59'33 | 2♌15 | 25♌ 5 | 10♌35 | 27°≈30 | 17°K21 | 19°R54 | 1♌50 | 24♎54 | 10°Y21 | 28°Z33 | 29°Z31 | 4°K18 | 18°Z19 | T 31 | |

Delta T = 18m10s

ASTRODIENST EPHEMERIS for the year 2568
geocentric

JANUARY 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|--------|------|--------|-------|--------|-------|------|--------|------|-----|
| F 1 | 6 41 41 | 10♌0'39 | 14♌44 | 26♌34 | 11♌50 | 28♌17 | 17♌30 | 19°R54 | 1♌53 | 24°R52 | 10♌21 | 28°R31 | 29♌28 | 4♌25 | 18°R17 | F 1 | |
| S 2 | 6 45 38 | 11° 1'45 | 27° 0 | 28° 3 | 13° 6 | 29° 4 | 17°40 | 19♎54 | 1°56 | 24♌51 | 10°21 | 28°D31 | 29°24 | 4°31 | 18♌16 | S 2 | |
| S 3 | 6 49 34 | 12° 2'52 | 9♌ 6 | 29°30 | 14°21 | 29°50 | 17°49 | 19°54 | 1°59 | 24°49 | 10°22 | 28♌31 | 29°21 | 4°38 | 18°14 | S 3 | |
| M 4 | 6 53 31 | 13° 3'58 | 21° 2 | 0♌56 | 15°37 | 0♌37 | 17°59 | 19°53 | 2° 2 | 24°47 | 10°22 | 28°32 | 29°18 | 4°45 | 18°13 | M 4 | |
| T 5 | 6 57 28 | 14° 5'05 | 2♌53 | 2°19 | 16°52 | 1°24 | 18° 9 | 19°53 | 2° 5 | 24°46 | 10°22 | 28°33 | 29°15 | 4°51 | 18°12 | T 5 | |
| W 6 | 7 1 24 | 15° 6'12 | 14°42 | 3°41 | 18° 8 | 2°10 | 18°19 | 19°52 | 2° 8 | 24°44 | 10°22 | 28°35 | 29°12 | 4°58 | 18°10 | W 6 | |
| T 7 | 7 5 21 | 16° 7'19 | 26°32 | 5° 0 | 19°23 | 2°57 | 18°29 | 19°51 | 2°11 | 24°42 | 10°23 | 28°36 | 29° 9 | 5° 5 | 18° 9 | T 7 | |
| F 8 | 7 9 17 | 17° 8'26 | 8♌28 | 6°16 | 20°39 | 3°44 | 18°39 | 19°50 | 2°14 | 24°41 | 10°23 | 28°37 | 29° 5 | 5°11 | 18° 8 | F 8 | |
| S 9 | 7 13 14 | 18° 9'33 | 20°35 | 7°28 | 21°54 | 4°30 | 18°50 | 19°49 | 2°17 | 24°39 | 10°23 | 28°R37 | 29° 2 | 5°18 | 18° 7 | S 9 | |
| S 10 | 7 17 10 | 19°10'40 | 2♌58 | 8°36 | 23°10 | 5°17 | 19° 0 | 19°48 | 2°20 | 24°37 | 10°24 | 28°37 | 28°59 | 5°25 | 18° 6 | S 10 | |
| M 11 | 7 21 7 | 20°11'47 | 15°41 | 9°39 | 24°25 | 6° 4 | 19°11 | 19°47 | 2°23 | 24°36 | 10°24 | 28°36 | 28°56 | 5°31 | 18° 5 | M 11 | |
| T 12 | 7 25 3 | 21°12'53 | 28°48 | 10°37 | 25°41 | 6°51 | 19°22 | 19°46 | 2°26 | 24°34 | 10°25 | 28°35 | 28°53 | 5°38 | 18° 4 | T 12 | |
| W 13 | 7 29 0 | 22°14'00 | 12♌20 | 11°28 | 26°56 | 7°37 | 19°33 | 19°44 | 2°28 | 24°32 | 10°25 | 28°34 | 28°49 | 5°45 | 18° 3 | W 13 | |
| T 14 | 7 32 57 | 23°15'06 | 26°17 | 12°12 | 28°11 | 8°24 | 19°44 | 19°43 | 2°31 | 24°31 | 10°25 | 28°33 | 28°46 | 5°51 | 18° 2 | T 14 | |
| F 15 | 7 36 53 | 24°16'12 | 10♌39 | 12°47 | 29°27 | 9°11 | 19°55 | 19°41 | 2°34 | 24°29 | 10°26 | 28°33 | 28°43 | 5°58 | 18° 1 | F 15 | |
| S 16 | 7 40 50 | 25°17'18 | 25°19 | 13°14 | 0♌42 | 9°57 | 20° 6 | 19°40 | 2°36 | 24°27 | 10°26 | 28°D33 | 28°40 | 6° 5 | 18° 0 | S 16 | |
| S 17 | 7 44 46 | 26°18'24 | 10♌11 | 13°30 | 1°58 | 10°44 | 20°17 | 19°38 | 2°39 | 24°26 | 10°27 | 28°33 | 28°37 | 6°11 | 18° 0 | S 17 | |
| M 18 | 7 48 43 | 27°19'30 | 25° 8 | 13°R36 | 3°13 | 11°31 | 20°28 | 19°36 | 2°42 | 24°24 | 10°28 | 28°33 | 28°34 | 6°18 | 17°59 | M 18 | |
| T 19 | 7 52 39 | 28°20'36 | 10♌ 1 | 13°31 | 4°29 | 12°17 | 20°40 | 19°34 | 2°44 | 24°22 | 10°28 | 28°R33 | 28°30 | 6°25 | 17°59 | T 19 | |
| W 20 | 7 56 36 | 29°21'42 | 24°43 | 13°13 | 5°44 | 13° 4 | 20°52 | 19°32 | 2°47 | 24°20 | 10°29 | 28°33 | 28°27 | 6°31 | 17°58 | W 20 | |
| T 21 | 8 0 32 | 0♌22'47 | 9♌ 9 | 12°44 | 6°59 | 13°51 | 21° 3 | 19°29 | 2°49 | 24°19 | 10°29 | 28°33 | 28°24 | 6°38 | 17°58 | T 21 | |
| F 22 | 8 4 29 | 1°23'53 | 23°16 | 12° 3 | 8°15 | 14°37 | 21°15 | 19°27 | 2°51 | 24°17 | 10°30 | 28°33 | 28°21 | 6°45 | 17°57 | F 22 | |
| S 23 | 8 8 26 | 2°24'59 | 7♌ 2 | 11°12 | 9°30 | 15°24 | 21°27 | 19°25 | 2°54 | 24°15 | 10°31 | 28°D33 | 28°18 | 6°51 | 17°57 | S 23 | |
| S 24 | 8 12 22 | 3°26'05 | 20°27 | 10°11 | 10°46 | 16°11 | 21°39 | 19°22 | 2°56 | 24°14 | 10°31 | 28°33 | 28°14 | 6°58 | 17°57 | S 24 | |
| M 25 | 8 16 19 | 4°27'11 | 3♌33 | 9° 2 | 12° 1 | 16°57 | 21°51 | 19°19 | 2°58 | 24°12 | 10°32 | 28°33 | 28°11 | 7° 5 | 17°56 | M 25 | |
| T 26 | 8 20 15 | 5°28'16 | 16°23 | 7°48 | 13°17 | 17°44 | 22° 3 | 19°17 | 3° 1 | 24°10 | 10°33 | 28°34 | 28° 8 | 7°12 | 17°56 | T 26 | |
| W 27 | 8 24 12 | 6°29'22 | 28°58 | 6°30 | 14°32 | 18°30 | 22°15 | 19°14 | 3° 3 | 24° 9 | 10°33 | 28°35 | 28° 5 | 7°18 | 17°56 | W 27 | |
| T 28 | 8 28 8 | 7°30'27 | 11♌21 | 5°12 | 15°47 | 19°17 | 22°27 | 19°11 | 3° 5 | 24° 7 | 10°34 | 28°36 | 28° 2 | 7°25 | 17°D56 | T 28 | |
| F 29 | 8 32 5 | 8°31'32 | 23°33 | 3°55 | 17° 3 | 20° 4 | 22°40 | 19° 8 | 3° 7 | 24° 5 | 10°35 | 28°R36 | 27°59 | 7°32 | 17°56 | F 29 | |
| S 30 | 8 36 2 | 9°32'36 | 5♌37 | 2°42 | 18°18 | 20°50 | 22°52 | 19° 5 | 3° 9 | 24° 4 | 10°36 | 28°36 | 27°55 | 7°38 | 17°56 | S 30 | |
| S 31 | 8 39 58 | 10♌33'39 | 17♌35 | 1♌35 | 19♌33 | 21♌37 | 23♌ 5 | 19♎ 2 | 3♌11 | 24♌ 2 | 10♌37 | 28♌35 | 27♌52 | 7♌45 | 17♌57 | S 31 | |

Delta T = 18m10s

FEBRUARY 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|--------|------|--------|-------|--------|-------|-------|-------|------|-----|
| M 1 | 8 43 55 | 11♌34'42 | 29♌27 | 0°R34 | 20♌49 | 22♌23 | 23♌17 | 18°R59 | 3♌13 | 24°R 1 | 10♌38 | 28°R34 | 27♌49 | 7♌52 | 17♌57 | M 1 | |
| T 2 | 8 47 51 | 12°35'44 | 11♌16 | 29♌42 | 22° 4 | 23°10 | 23°30 | 18♎55 | 3°15 | 23♌59 | 10°38 | 28♌32 | 27°46 | 7°58 | 17°57 | T 2 | |
| W 3 | 8 51 48 | 13°36'45 | 23° 5 | 28°58 | 23°19 | 23°56 | 23°43 | 18°52 | 3°17 | 23°57 | 10°39 | 28°29 | 27°43 | 8° 5 | 17°57 | W 3 | |
| T 4 | 8 55 44 | 14°37'45 | 4♌57 | 28°23 | 24°35 | 24°43 | 23°56 | 18°48 | 3°18 | 23°56 | 10°40 | 28°27 | 27°40 | 8°12 | 17°58 | T 4 | |
| F 5 | 8 59 41 | 15°38'44 | 16°53 | 27°58 | 25°50 | 25°29 | 24° 9 | 18°45 | 3°20 | 23°54 | 10°41 | 28°25 | 27°36 | 8°18 | 17°58 | F 5 | |
| S 6 | 9 3 37 | 16°39'43 | 28°59 | 27°41 | 27° 5 | 26°16 | 24°22 | 18°41 | 3°22 | 23°53 | 10°42 | 28°23 | 27°33 | 8°25 | 17°59 | S 6 | |
| S 7 | 9 7 34 | 17°40'40 | 11♌18 | 27°33 | 28°21 | 27° 2 | 24°35 | 18°37 | 3°23 | 23°51 | 10°43 | 28°22 | 27°30 | 8°32 | 17°59 | S 7 | |
| M 8 | 9 11 30 | 18°41'36 | 23°55 | 27°D33 | 29°36 | 27°48 | 24°48 | 18°33 | 3°25 | 23°50 | 10°44 | 28°D22 | 27°27 | 8°38 | 18° 0 | M 8 | |
| T 9 | 9 15 27 | 19°42'31 | 6♌53 | 27°40 | 0♌51 | 28°35 | 25° 1 | 18°30 | 3°27 | 23°48 | 10°45 | 28°23 | 27°24 | 8°45 | 18° 1 | T 9 | |
| W 10 | 9 19 24 | 20°43'24 | 20°17 | 27°55 | 2° 6 | 29°21 | 25°14 | 18°26 | 3°28 | 23°47 | 10°46 | 28°24 | 27°20 | 8°52 | 18° 2 | W 10 | |
| T 11 | 9 23 20 | 21°44'17 | 4♌ 7 | 28°15 | 3°21 | 0♌ 7 | 25°27 | 18°22 | 3°30 | 23°45 | 10°47 | 28°25 | 27°17 | 8°58 | 18° 2 | T 11 | |
| F 12 | 9 27 17 | 22°45'08 | 18°25 | 28°42 | 4°37 | 0°54 | 25°41 | 18°18 | 3°31 | 23°44 | 10°48 | 28°27 | 27°14 | 9° 5 | 18° 3 | F 12 | |
| S 13 | 9 31 13 | 23°45'58 | 3♌ 8 | 29°15 | 5°52 | 1°40 | 25°54 | 18°13 | 3°32 | 23°42 | 10°49 | 28°R27 | 27°11 | 9°12 | 18° 4 | S 13 | |
| S 14 | 9 35 10 | 24°46'47 | 18°11 | 29°52 | 7° 7 | 2°26 | 26° 8 | 18° 9 | 3°34 | 23°41 | 10°50 | 28°26 | 27° 8 | 9°18 | 18° 5 | S 14 | |
| M 15 | 9 39 6 | 25°47'34 | 3♌24 | 0♌34 | 8°22 | 3°12 | 26°21 | 18° 5 | 3°35 | 23°40 | 10°51 | 28°23 | 27° 5 | 9°25 | 18° 6 | M 15 | |
| T 16 | 9 43 3 | 26°48'20 | 18°39 | 1°20 | 9°37 | 3°59 | 26°35 | 18° 1 | 3°36 | 23°38 | 10°53 | 28°20 | 27° 1 | 9°32 | 18° 7 | T 16 | |
| W 17 | 9 47 0 | 27°49'06 | 3♌44 | 2°10 | 10°52 | 4°45 | 26°48 | 17°56 | 3°37 | 23°37 | 10°54 | 28°15 | 26°58 | 9°38 | 18° 9 | W 17 | |
| T 18 | 9 50 56 | 28°49'50 | 18°31 | 3° 3 | 12° 7 | 5°31 | 27° 2 | 17°52 | 3°38 | 23°35 | 10°55 | 28°11 | 26°55 | 9°45 | 18°10 | T 18 | |
| F 19 | 9 54 53 | 29°50'33 | 2♌54 | 4° 0 | 13°22 | 6°17 | 27°16 | 17°48 | 3°39 | 23°34 | 10°56 | 28° 7 | 26°52 | 9°52 | 18°11 | F 19 | |
| S 20 | 9 58 49 | 0♌51'16 | 16°50 | 4°59 | 14°37 | 7° 3 | 27°30 | 17°43 | 3°40 | 23°33 | 10°57 | 28° 5 | 26°49 | 9°58 | 18°13 | S 20 | |
| S 21 | 10 2 46 | 1°51'57 | 0♌18 | 6° 1 | 15°53 | 7°49 | 27°43 | 17°39 | 3°41 | 23°32 | 10°58 | 28°D 4 | 26°46 | 10° 5 | 18°14 | S 21 | |
| M 22 | 10 6 42 | 2°52'38 | 13°22 | 7° 6 | 17° 8 | 8°35 | 27°57 | 17°34 | 3°42 | 23°30 | 11° 0 | 28° 5 | 26°42 | 10°12 | 18°15 | M 22 | |
| T 23 | 10 10 39 | 3°53'17 | 26° 3 | 8°12 | 18°23 | 9°21 | 28°11 | 17°29 | 3°43 | 23°29 | 11° 1 | 28° 6 | 26°39 | 10°19 | 18°17 | T 23 | |
| W 24 | 10 14 35 | 4°53'55 | 8♌27 | 9°21 | 19°37 | 10° 7 | 28°25 | 17°25 | 3°43 | 23°28 | 11° 2 | 28° 8 | 26°36 | 10°25 | 18°19 | W 24 | |
| T 25 | 10 18 32 | 5°54'32 | 20°37 | 10°32 | 20°52 | 10°53 | 28°39 | 17°20 | 3°44 | 23°27 | 11° 3 | 28° 9 | 26°33 | 10°32 | 18°20 | T 25 | |
| F 26 | 10 22 29 | 6°55'08 | 2♌38 | 11°45 | 22° 7 | 11°39 | 28°53 | 17°15 | 3°45 | 23°26 | 11° 5 | 28°R 9 | 26°30 | 10°39 | 18°22 | F 26 | |
| S 27 | 10 26 25 | 7°55'43 | 14°32 | 13° 0 | 23°22 | 12°24 | 29° 7 | 17°11 | 3°45 | 23°25 | 11° 6 | 28° 8 | 26°26 | 10°45 | 18°24 | S 27 | |
| S 28 | 10 30 22 | 8°56'16 | 26°22 | 14°16 | 24°37 | 13°10 | 29°21 | 17° 6 | 3°46 | 23°23 | 11° 7 | 28° 4 | 26°23 | 10°52 | 18°25 | S 28 | |
| M 29 | 10 34 18 | 9♌56'48 | 8♌12 | 15♌33 | 25♌52 | 13♌56 | 29♌36 | 17♎ 1 | 3♌46 | 23♌22 | 11♌ 8 | 27♌58 | 26♌20 | 10♌59 | 18♌27 | M 29 | |

Delta T = 18m11s

ASTRODIENST EPHEMERIS for the year 2568
geocentric

MARCH 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|------|
| T 1 | 10 38 15 | 10♌57'18 | 20♋ 2 | 16♉53 | 27♋ 7 | 14♏42 | 29♋50 | 16°R56 | 3♌47 | 23°R21 | 11♏10 | 27°R51 | 26♌17 | 11♋ 5 | 18♌29 | T 1 |
| W 2 | 10 42 11 | 11°57'46 | 1♏54 | 18°13 | 28°22 | 15°27 | 0♏ 4 | 16♏51 | 3°47 | 23♌20 | 11°11 | 27♌42 | 26°14 | 11°12 | 18°31 | W 2 |
| T 3 | 10 46 8 | 12°58'13 | 13°50 | 19°35 | 29°36 | 16°13 | 0°18 | 16°47 | 3°47 | 23°19 | 11°12 | 27°33 | 26°11 | 11°19 | 18°33 | T 3 |
| F 4 | 10 50 4 | 13°58'38 | 25°51 | 20°58 | 0♏51 | 16°59 | 0°32 | 16°42 | 3°48 | 23°18 | 11°14 | 27°25 | 26° 7 | 11°25 | 18°35 | F 4 |
| S 5 | 10 54 1 | 14°59'02 | 8♌ 1 | 22°23 | 2° 6 | 17°44 | 0°47 | 16°37 | 3°48 | 23°17 | 11°15 | 27°17 | 26° 4 | 11°32 | 18°37 | S 5 |
| S 6 | 10 57 57 | 15°59'23 | 20°22 | 23°48 | 3°21 | 18°30 | 1° 1 | 16°32 | 3°48 | 23°17 | 11°16 | 27°12 | 26° 1 | 11°39 | 18°39 | S 6 |
| M 7 | 11 1 54 | 16°59'43 | 2♏57 | 25°15 | 4°35 | 19°15 | 1°15 | 16°27 | 3°48 | 23°16 | 11°18 | 27° 9 | 25°58 | 11°45 | 18°42 | M 7 |
| T 8 | 11 5 51 | 18° 0'01 | 15°49 | 26°43 | 5°50 | 20° 1 | 1°30 | 16°22 | 3°R48 | 23°15 | 11°19 | 27°D 7 | 25°55 | 11°52 | 18°44 | T 8 |
| W 9 | 11 9 47 | 19° 0'17 | 29° 3 | 28°12 | 7° 5 | 20°46 | 1°44 | 16°18 | 3°48 | 23°14 | 11°21 | 27° 8 | 25°52 | 11°59 | 18°46 | W 9 |
| T 10 | 11 13 44 | 20° 0'31 | 12♌41 | 29°43 | 8°19 | 21°31 | 1°59 | 16°13 | 3°48 | 23°13 | 11°22 | 27° 9 | 25°48 | 12° 5 | 18°48 | T 10 |
| F 11 | 11 17 40 | 21° 0'42 | 26°46 | 1♋14 | 9°34 | 22°17 | 2°13 | 16° 8 | 3°48 | 23°12 | 11°23 | 27°R 9 | 25°45 | 12°12 | 18°51 | F 11 |
| S 12 | 11 21 37 | 22° 0'52 | 11♏17 | 2°46 | 10°48 | 23° 2 | 2°28 | 16° 3 | 3°48 | 23°12 | 11°25 | 27° 9 | 25°42 | 12°19 | 18°53 | S 12 |
| S 13 | 11 25 33 | 23° 1'00 | 26°11 | 4°20 | 12° 3 | 23°47 | 2°42 | 15°58 | 3°47 | 23°11 | 11°26 | 27° 6 | 25°39 | 12°26 | 18°56 | S 13 |
| M14 | 11 29 30 | 24° 1'06 | 11♏22 | 5°55 | 13°17 | 24°33 | 2°56 | 15°54 | 3°47 | 23°10 | 11°28 | 27° 0 | 25°36 | 12°32 | 18°58 | M14 |
| T 15 | 11 33 26 | 25° 1'09 | 26°40 | 7°30 | 14°32 | 25°18 | 3°11 | 15°49 | 3°47 | 23°10 | 11°29 | 26°52 | 25°32 | 12°39 | 19° 1 | T 15 |
| W16 | 11 37 23 | 26° 1'11 | 11♌54 | 9° 7 | 15°46 | 26° 3 | 3°25 | 15°44 | 3°46 | 23° 9 | 11°31 | 26°43 | 25°29 | 12°46 | 19° 4 | W16 |
| T 17 | 11 41 20 | 27° 1'12 | 26°54 | 10°45 | 17° 0 | 26°48 | 3°40 | 15°39 | 3°46 | 23° 9 | 11°32 | 26°34 | 25°26 | 12°52 | 19° 6 | T 17 |
| F 18 | 11 45 16 | 28° 1'10 | 11♏31 | 12°24 | 18°15 | 27°33 | 3°54 | 15°35 | 3°45 | 23° 8 | 11°34 | 26°26 | 25°23 | 12°59 | 19° 9 | F 18 |
| S 19 | 11 49 13 | 29° 1'07 | 25°39 | 14° 5 | 19°29 | 28°18 | 4° 9 | 15°30 | 3°45 | 23° 8 | 11°35 | 26°19 | 25°20 | 13° 6 | 19°12 | S 19 |
| S 20 | 11 53 9 | 0♏ 1'03 | 9♌17 | 15°46 | 20°43 | 29° 3 | 4°24 | 15°25 | 3°44 | 23° 7 | 11°36 | 26°15 | 25°17 | 13°12 | 19°14 | S 20 |
| M21 | 11 57 6 | 1° 0'57 | 22°26 | 17°28 | 21°57 | 29°48 | 4°38 | 15°21 | 3°44 | 23° 7 | 11°38 | 26°13 | 25°13 | 13°19 | 19°17 | M21 |
| T 22 | 12 1 2 | 2° 0'49 | 5♌ 9 | 19°12 | 23°12 | 0♌33 | 4°53 | 15°16 | 3°43 | 23° 6 | 11°39 | 26°D12 | 25°10 | 13°26 | 19°20 | T 22 |
| W23 | 12 4 59 | 3° 0'40 | 17°31 | 20°57 | 24°26 | 1°17 | 5° 7 | 15°12 | 3°42 | 23° 6 | 11°41 | 26°13 | 25° 7 | 13°32 | 19°23 | W23 |
| T 24 | 12 8 55 | 4° 0'29 | 29°37 | 22°43 | 25°40 | 2° 2 | 5°22 | 15° 7 | 3°41 | 23° 6 | 11°42 | 26°R13 | 25° 4 | 13°39 | 19°26 | T 24 |
| F 25 | 12 12 52 | 5° 0'16 | 11♌33 | 24°30 | 26°54 | 2°47 | 5°36 | 15° 3 | 3°40 | 23° 5 | 11°44 | 26°12 | 25° 1 | 13°46 | 19°29 | F 25 |
| S 26 | 12 16 49 | 6° 0'01 | 23°23 | 26°19 | 28° 8 | 3°32 | 5°51 | 14°59 | 3°40 | 23° 5 | 11°45 | 26° 8 | 24°58 | 13°52 | 19°32 | S 26 |
| S 27 | 12 20 45 | 6°59'45 | 5♋11 | 28° 9 | 29°22 | 4°16 | 6° 6 | 14°54 | 3°39 | 23° 5 | 11°47 | 26° 2 | 24°54 | 13°59 | 19°35 | S 27 |
| M28 | 12 24 42 | 7°59'27 | 17° 0 | 29°59 | 0♌36 | 5° 1 | 6°20 | 14°50 | 3°38 | 23° 4 | 11°48 | 25°53 | 24°51 | 14° 6 | 19°38 | M28 |
| T 29 | 12 28 38 | 8°59'07 | 28°52 | 1♏52 | 1°50 | 5°45 | 6°35 | 14°46 | 3°36 | 23° 4 | 11°50 | 25°42 | 24°48 | 14°13 | 19°41 | T 29 |
| W30 | 12 32 35 | 9°58'45 | 10♏50 | 3°45 | 3° 4 | 6°30 | 6°49 | 14°42 | 3°35 | 23° 4 | 11°51 | 25°28 | 24°45 | 14°19 | 19°44 | W30 |
| T 31 | 12 36 31 | 10♏58'21 | 22♏54 | 5♏40 | 4♌18 | 7♌14 | 7♏ 4 | 14♏38 | 3♌34 | 23♌ 4 | 11♏53 | 25♌14 | 24♌42 | 14♌26 | 19♌47 | T 31 |

Delta T = 18m11s

APRIL 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|------|
| F 1 | 12 40 28 | 11♏57'55 | 5♌ 6 | 7♏36 | 5♌31 | 7♌59 | 7♏18 | 14°R34 | 3°R33 | 23°R 4 | 11♏54 | 25°R 1 | 24♌38 | 14♋33 | 19♌51 | F 1 |
| S 2 | 12 44 24 | 12°57'27 | 17°27 | 9°33 | 6°45 | 8°43 | 7°33 | 14♏30 | 3♌32 | 23♌ 4 | 11°56 | 24♌49 | 24°35 | 14°39 | 19°54 | S 2 |
| M 3 | 12 48 21 | 13°56'56 | 29°57 | 11°31 | 7°59 | 9°27 | 7°47 | 14°26 | 3°30 | 23°D 4 | 11°57 | 24°40 | 24°32 | 14°46 | 19°57 | S 3 |
| S 4 | 12 52 18 | 14°56'24 | 12♏39 | 13°30 | 9°13 | 10°12 | 8° 2 | 14°22 | 3°29 | 23° 4 | 11°59 | 24°34 | 24°29 | 14°53 | 20° 1 | M 4 |
| T 5 | 12 56 14 | 15°55'50 | 25°35 | 15°30 | 10°26 | 10°56 | 8°16 | 14°18 | 3°28 | 23° 4 | 12° 0 | 24°30 | 24°26 | 14°59 | 20° 4 | T 5 |
| W 6 | 13 0 11 | 16°55'13 | 8♌47 | 17°31 | 11°40 | 11°40 | 8°31 | 14°14 | 3°26 | 23° 4 | 12° 2 | 24°29 | 24°23 | 15° 6 | 20° 7 | W 6 |
| T 7 | 13 4 7 | 17°54'34 | 22°18 | 19°33 | 12°54 | 12°24 | 8°45 | 14°11 | 3°25 | 23° 4 | 12° 3 | 24°29 | 24°19 | 15°13 | 20°11 | T 7 |
| F 8 | 13 8 4 | 18°53'52 | 6♏11 | 21°36 | 14° 7 | 13° 8 | 9° 0 | 14° 7 | 3°23 | 23° 4 | 12° 5 | 24°28 | 24°16 | 15°19 | 20°14 | F 8 |
| S 9 | 13 12 0 | 19°53'08 | 20°26 | 23°39 | 15°21 | 13°52 | 9°14 | 14° 4 | 3°22 | 23° 5 | 12° 6 | 24°27 | 24°13 | 15°26 | 20°18 | S 9 |
| S 10 | 13 15 57 | 20°52'22 | 5♏ 2 | 25°43 | 16°34 | 14°36 | 9°29 | 14° 0 | 3°20 | 23° 5 | 12° 8 | 24°23 | 24°10 | 15°33 | 20°21 | S 10 |
| M11 | 13 19 53 | 21°51'34 | 19°55 | 27°47 | 17°47 | 15°20 | 9°43 | 13°57 | 3°18 | 23° 5 | 12° 9 | 24°16 | 24° 7 | 15°40 | 20°25 | M11 |
| T 12 | 13 23 50 | 22°50'43 | 4♌58 | 29°50 | 19° 1 | 16° 4 | 9°58 | 13°54 | 3°17 | 23° 5 | 12°11 | 24° 7 | 24° 3 | 15°46 | 20°28 | T 12 |
| W13 | 13 27 46 | 23°49'50 | 20° 3 | 1♌53 | 20°14 | 16°48 | 10°12 | 13°51 | 3°15 | 23° 6 | 12°12 | 23°56 | 24° 0 | 15°53 | 20°32 | W13 |
| T 14 | 13 31 43 | 24°48'55 | 4♏58 | 3°56 | 21°27 | 17°32 | 10°26 | 13°48 | 3°13 | 23° 6 | 12°14 | 23°44 | 23°57 | 16° 0 | 20°35 | T 14 |
| F 15 | 13 35 40 | 25°47'59 | 19°35 | 5°57 | 22°40 | 18°15 | 10°41 | 13°45 | 3°12 | 23° 7 | 12°15 | 23°33 | 23°54 | 16° 6 | 20°39 | F 15 |
| S 16 | 13 39 36 | 26°47'00 | 3♌46 | 7°57 | 23°53 | 18°59 | 10°55 | 13°42 | 3°10 | 23° 7 | 12°16 | 23°25 | 23°51 | 16°13 | 20°42 | S 16 |
| S 17 | 13 43 33 | 27°46'00 | 17°30 | 9°55 | 25° 6 | 19°43 | 11° 9 | 13°39 | 3° 8 | 23° 7 | 12°18 | 23°18 | 23°48 | 16°20 | 20°46 | S 17 |
| M18 | 13 47 29 | 28°44'58 | 0♌44 | 11°52 | 26°19 | 20°26 | 11°23 | 13°36 | 3° 6 | 23° 8 | 12°19 | 23°15 | 23°44 | 16°26 | 20°50 | M18 |
| T 19 | 13 51 26 | 29°43'54 | 13°32 | 13°45 | 27°32 | 21°10 | 11°38 | 13°34 | 3° 4 | 23° 8 | 12°21 | 23°13 | 23°41 | 16°33 | 20°53 | T 19 |
| W20 | 13 55 22 | 0♌42'49 | 25°58 | 15°36 | 28°45 | 21°53 | 11°52 | 13°31 | 3° 2 | 23° 9 | 12°22 | 23°13 | 23°38 | 16°40 | 20°57 | W20 |
| T 21 | 13 59 19 | 1°41'42 | 8♌ 7 | 17°24 | 29°58 | 22°37 | 12° 6 | 13°29 | 3° 0 | 23°10 | 12°24 | 23°13 | 23°35 | 16°46 | 21° 1 | T 21 |
| F 22 | 14 3 16 | 2°40'33 | 20° 4 | 19° 8 | 1♏11 | 23°20 | 12°20 | 13°26 | 2°58 | 23°10 | 12°25 | 23°12 | 23°32 | 16°53 | 21° 4 | F 22 |
| S 23 | 14 7 12 | 3°39'22 | 1♋54 | 20°49 | 2°24 | 24° 3 | 12°34 | 13°24 | 2°56 | 23°11 | 12°27 | 23° 9 | 23°29 | 17° 0 | 21° 8 | S 23 |
| S 24 | 14 11 9 | 4°38'09 | 13°42 | 22°25 | 3°37 | 24°47 | 12°48 | 13°22 | 2°54 | 23°12 | 12°28 | 23° 3 | 23°25 | 17° 7 | 21°12 | S 24 |
| M25 | 14 15 5 | 5°36'55 | 25°33 | 23°57 | 4°49 | 25°30 | 13° 2 | 13°20 | 2°52 | 23°12 | 12°29 | 22°55 | 23°22 | 17°13 | 21°16 | M25 |
| T 26 | 14 19 2 | 6°35'39 | 7♏30 | 25°25 | 6° 2 | 26°13 | 13°16 | 13°18 | 2°50 | 23°13 | 12°31 | 22°44 | 23°19 | 17°20 | 21°20 | T 26 |
| W27 | 14 22 58 | 7°34'21 | 19°35 | 26°48 | 7°14 | 26°56 | 13°30 | 13°16 | 2°47 | 23°14 | 12°32 | 22°32 | 23°16 | 17°27 | 21°23 | W27 |
| T 28 | 14 26 55 | 8°33'02 | 1♌50 | 28° 6 | 8°27 | 27°39 | 13°44 | 13°15 | 2°45 | 23°15 | 12°33 | 22°18 | 23°13 | 17°33 | 21°27 | T 28 |
| F 29 | 14 30 51 | 9°31'40 | 14°16 | 29°20 | 9°39 | 28°22 | 13°58 | 13°13 | 2°43 | 23°16 | 12°35 | 22° 6 | 23° 9 | 17°40 | 21°31 | F 29 |
| S 30 | 14 34 48 | 10♌30'17 | 26♌52 | 0♏28 | 10♏52 | 29♌ 5 | 14♏12 | 13♏11 | 2♌41 | 23♌16 | 12♏36 | 21♌54 | 23♌ 6 | 17♌47 | 21♌35 | S 30 |

Delta T = 18m11s

ASTRODIENST EPHEMERIS for the year 2568
geocentric

MAY 2568

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 14 38 44 | 11♁28'52 | 9♂39 | 1♂31 | 12♂4 | 29♁48 | 14♂25 | 13°R10 | 2°R38 | 23♁17 | 12♂37 | 21°R45 | 23♁3 | 17♁53 | 21♁39 | S 1 | |
| M 2 | 14 42 41 | 12°27'24 | 22°37 | 2°28 | 13°17 | 0♂31 | 14°39 | 13♂9 | 2♁36 | 23°18 | 12°39 | 21♁39 | 23°0 | 18°0 | 21°43 | M 2 | |
| T 3 | 14 46 38 | 13°25'55 | 5♁47 | 3°21 | 14°29 | 1°14 | 14°53 | 13°7 | 2°34 | 23°19 | 12°40 | 21°36 | 22°57 | 18°7 | 21°46 | T 3 | |
| W 4 | 14 50 34 | 14°24'24 | 19°9 | 4°8 | 15°41 | 1°57 | 15°6 | 13°6 | 2°31 | 23°20 | 12°41 | 21°D35 | 22°54 | 18°14 | 21°50 | W 4 | |
| T 5 | 14 54 31 | 15°22'50 | 2♁45 | 4°49 | 16°53 | 2°40 | 15°20 | 13°5 | 2°29 | 23°21 | 12°43 | 21°35 | 22°50 | 18°20 | 21°54 | T 5 | |
| F 6 | 14 58 27 | 16°21'15 | 16°35 | 5°25 | 18°5 | 3°23 | 15°33 | 13°4 | 2°27 | 23°22 | 12°44 | 21°R36 | 22°47 | 18°27 | 21°58 | F 6 | |
| S 7 | 15 2 24 | 17°19'37 | 0♂40 | 5°55 | 19°17 | 4°5 | 15°47 | 13°3 | 2°24 | 23°24 | 12°45 | 21°35 | 22°44 | 18°34 | 22°2 | S 7 | |
| S 8 | 15 6 20 | 18°17'57 | 15°0 | 6°19 | 20°29 | 4°48 | 16°0 | 13°3 | 2°22 | 23°25 | 12°47 | 21°32 | 22°41 | 18°40 | 22°6 | S 8 | |
| M 9 | 15 10 17 | 19°16'15 | 29°32 | 6°38 | 21°41 | 5°30 | 16°14 | 13°2 | 2°19 | 23°26 | 12°48 | 21°27 | 22°38 | 18°47 | 22°10 | M 9 | |
| T 10 | 15 14 13 | 20°14'31 | 14♁11 | 6°52 | 22°53 | 6°13 | 16°27 | 13°2 | 2°17 | 23°27 | 12°49 | 21°20 | 22°35 | 18°54 | 22°14 | T 10 | |
| W11 | 15 18 10 | 21°12'45 | 28°52 | 7°0 | 24°4 | 6°55 | 16°40 | 13°1 | 2°15 | 23°28 | 12°50 | 21°11 | 22°31 | 19°0 | 22°17 | W11 | |
| T 12 | 15 22 7 | 22°10'57 | 13♂26 | 7°R 2 | 25°16 | 7°38 | 16°53 | 13°1 | 2°12 | 23°29 | 12°52 | 21°2 | 22°28 | 19°7 | 22°21 | T 12 | |
| F 13 | 15 26 3 | 23°9'07 | 27°47 | 7°0 | 26°28 | 8°20 | 17°6 | 13°1 | 2°10 | 23°31 | 12°53 | 20°53 | 22°25 | 19°14 | 22°25 | F 13 | |
| S 14 | 15 30 0 | 24°7'16 | 11♁48 | 6°52 | 27°39 | 9°3 | 17°20 | 13°D 1 | 2°7 | 23°32 | 12°54 | 20°46 | 22°22 | 19°21 | 22°29 | S 14 | |
| S 15 | 15 33 56 | 25°5'24 | 25°26 | 6°39 | 28°51 | 9°45 | 17°33 | 13°1 | 2°5 | 23°33 | 12°55 | 20°41 | 22°19 | 19°27 | 22°33 | S 15 | |
| M16 | 15 37 53 | 26°3'30 | 8♁39 | 6°22 | 0♁2 | 10°27 | 17°46 | 13°1 | 2°2 | 23°35 | 12°56 | 20°38 | 22°15 | 19°34 | 22°37 | M16 | |
| T 17 | 15 41 49 | 27°1'34 | 21°28 | 6°1 | 1°13 | 11°9 | 17°58 | 13°1 | 2°0 | 23°36 | 12°57 | 20°D38 | 22°12 | 19°41 | 22°41 | T 17 | |
| W18 | 15 45 46 | 27°59'37 | 3♁57 | 5°37 | 2°24 | 11°51 | 18°11 | 13°2 | 1°57 | 23°37 | 12°58 | 20°38 | 22°9 | 19°47 | 22°45 | W18 | |
| T 19 | 15 49 43 | 28°57'38 | 16°9 | 5°9 | 3°36 | 12°33 | 18°24 | 13°2 | 1°55 | 23°39 | 13°0 | 20°39 | 22°6 | 19°54 | 22°49 | T 19 | |
| F 20 | 15 53 39 | 29°55'39 | 28°8 | 4°38 | 4°47 | 13°15 | 18°37 | 13°3 | 1°52 | 23°40 | 13°1 | 20°R40 | 22°3 | 20°1 | 22°53 | F 20 | |
| S 21 | 15 57 36 | 0♂53'37 | 10♁1 | 4°5 | 5°58 | 13°57 | 18°49 | 13°3 | 1°50 | 23°42 | 13°2 | 20°40 | 22°0 | 20°7 | 22°56 | S 21 | |
| S 22 | 16 1 32 | 1°51'35 | 21°52 | 3°31 | 7°9 | 14°39 | 19°2 | 13°4 | 1°47 | 23°43 | 13°3 | 20°37 | 21°56 | 20°14 | 23°0 | S 22 | |
| M23 | 16 5 29 | 2°49'31 | 3♂46 | 2°56 | 8°20 | 15°21 | 19°14 | 13°5 | 1°45 | 23°45 | 13°4 | 20°33 | 21°53 | 20°21 | 23°4 | M23 | |
| T 24 | 16 9 25 | 3°47'26 | 15°47 | 2°20 | 9°30 | 16°3 | 19°27 | 13°6 | 1°42 | 23°46 | 13°5 | 20°27 | 21°50 | 20°28 | 23°8 | T 24 | |
| W25 | 16 13 22 | 4°45'20 | 27°58 | 1°45 | 10°41 | 16°45 | 19°39 | 13°7 | 1°39 | 23°48 | 13°6 | 20°20 | 21°47 | 20°34 | 23°12 | W25 | |
| T 26 | 16 17 18 | 5°43'13 | 10♁22 | 1°10 | 11°52 | 17°27 | 19°51 | 13°8 | 1°37 | 23°50 | 13°7 | 20°12 | 21°44 | 20°41 | 23°16 | T 26 | |
| F 27 | 16 21 15 | 6°41'04 | 23°1 | 0°38 | 13°2 | 18°9 | 20°3 | 13°9 | 1°34 | 23°51 | 13°8 | 20°4 | 21°41 | 20°48 | 23°20 | F 27 | |
| S 28 | 16 25 11 | 7°38'54 | 5♂54 | 0°7 | 14°13 | 18°50 | 20°15 | 13°11 | 1°32 | 23°53 | 13°9 | 19°57 | 21°37 | 20°54 | 23°23 | S 28 | |
| S 29 | 16 29 8 | 8°36'43 | 19°1 | 29♁39 | 15°23 | 19°32 | 20°27 | 13°12 | 1°29 | 23°55 | 13°10 | 19°52 | 21°34 | 21°1 | 23°27 | S 29 | |
| M30 | 16 33 5 | 9°34'30 | 2♁21 | 29°14 | 16°33 | 20°14 | 20°39 | 13°14 | 1°27 | 23°56 | 13°11 | 19°49 | 21°31 | 21°8 | 23°31 | M30 | |
| T 31 | 16 37 1 | 10♂32'16 | 15♁53 | 28♁52 | 17♁44 | 20♂55 | 20♂51 | 13♂16 | 1♁24 | 23♁58 | 13♂12 | 19°D47 | 21♁28 | 21♁14 | 23♁35 | T 31 | |

Delta T = 18m12s

JUNE 2568

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-----|
| W 1 | 16 40 58 | 11♂30'00 | 29♁36 | 28°R34 | 18♁54 | 21♂37 | 21♂3 | 13♂17 | 1°R22 | 24♁0 | 13♂13 | 19♁38 | 21♁25 | 21♁21 | 23♁39 | W 1 | |
| T 2 | 16 44 54 | 12°27'43 | 13♁28 | 28♁19 | 20°4 | 22°18 | 21°15 | 13°19 | 1♁19 | 24°1 | 13°13 | 19°49 | 21°21 | 21°28 | 23°42 | T 2 | |
| F 3 | 16 48 51 | 13°25'24 | 27°28 | 28°9 | 21°14 | 22°59 | 21°26 | 13°21 | 1°17 | 24°3 | 13°14 | 19°50 | 21°18 | 21°35 | 23°46 | F 3 | |
| S 4 | 16 52 47 | 14°23'04 | 11♂35 | 28°3 | 22°23 | 23°41 | 21°38 | 13°23 | 1°15 | 24°5 | 13°15 | 19°R51 | 21°15 | 21°41 | 23°50 | S 4 | |
| S 5 | 16 56 44 | 15°20'42 | 25°48 | 28°D 2 | 23°33 | 24°22 | 21°49 | 13°26 | 1°12 | 24°7 | 13°16 | 19°51 | 21°12 | 21°48 | 23°53 | S 5 | |
| M 6 | 17 0 41 | 16°18'18 | 10♁4 | 28°5 | 24°43 | 25°3 | 22°0 | 13°28 | 1°10 | 24°9 | 13°17 | 19°49 | 21°9 | 21°55 | 23°57 | M 6 | |
| T 7 | 17 4 37 | 17°15'53 | 24°21 | 28°13 | 25°52 | 25°45 | 22°11 | 13°30 | 1°7 | 24°10 | 13°18 | 19°45 | 21°6 | 22°1 | 24°1 | T 7 | |
| W 8 | 17 8 34 | 18°13'27 | 8♂35 | 28°25 | 27°2 | 26°26 | 22°23 | 13°33 | 1°5 | 24°12 | 13°18 | 19°41 | 21°2 | 22°8 | 24°4 | W 8 | |
| T 9 | 17 12 30 | 19°11'00 | 22°41 | 28°41 | 28°11 | 27°7 | 22°34 | 13°35 | 1°3 | 24°14 | 13°19 | 19°37 | 20°59 | 22°15 | 24°8 | T 9 | |
| F 10 | 17 16 27 | 20°8'31 | 6♁36 | 29°2 | 29°20 | 27°48 | 22°44 | 13°38 | 1°0 | 24°16 | 13°20 | 19°32 | 20°56 | 22°22 | 24°12 | F 10 | |
| S 11 | 17 20 23 | 21°6'02 | 20°15 | 29°27 | 0♂29 | 28°29 | 22°55 | 13°41 | 0°58 | 24°18 | 13°20 | 19°29 | 20°53 | 22°28 | 24°15 | S 11 | |
| S 12 | 17 24 20 | 22°3'31 | 3♁37 | 29°57 | 1°38 | 29°10 | 23°6 | 13°44 | 0°56 | 24°20 | 13°21 | 19°27 | 20°50 | 22°35 | 24°19 | S 12 | |
| M13 | 17 28 16 | 23°0'59 | 16°39 | 0♂30 | 2°47 | 29°51 | 23°17 | 13°47 | 0°53 | 24°22 | 13°22 | 19°D26 | 20°47 | 22°42 | 24°22 | M13 | |
| T 14 | 17 32 13 | 23°58'27 | 29°22 | 1°8 | 3°56 | 0♁32 | 23°27 | 13°50 | 0°51 | 24°24 | 13°22 | 19°26 | 20°43 | 22°48 | 24°26 | T 14 | |
| W15 | 17 36 10 | 24°55'54 | 11♁49 | 1°50 | 5°5 | 1°13 | 23°37 | 13°53 | 0°49 | 24°26 | 13°23 | 19°27 | 20°40 | 22°55 | 24°30 | W15 | |
| T 16 | 17 40 6 | 25°53'20 | 24°0 | 2°36 | 6°13 | 1°54 | 23°48 | 13°56 | 0°47 | 24°28 | 13°24 | 19°29 | 20°37 | 23°2 | 24°33 | T 16 | |
| F 17 | 17 44 3 | 26°50'45 | 6♁1 | 3°25 | 7°21 | 2°35 | 23°58 | 14°0 | 0°44 | 24°30 | 13°24 | 19°31 | 20°34 | 23°8 | 24°36 | F 17 | |
| S 18 | 17 47 59 | 27°48'10 | 17°56 | 4°18 | 8°30 | 3°15 | 24°8 | 14°3 | 0°42 | 24°32 | 13°25 | 19°32 | 20°31 | 23°15 | 24°40 | S 18 | |
| S 19 | 17 51 56 | 28°45'34 | 29°48 | 5°15 | 9°38 | 3°56 | 24°18 | 14°7 | 0°40 | 24°34 | 13°25 | 19°R32 | 20°27 | 23°22 | 24°43 | S 19 | |
| M20 | 17 55 52 | 29°42'57 | 11♂44 | 6°16 | 10°46 | 4°37 | 24°28 | 14°10 | 0°38 | 24°36 | 13°26 | 19°31 | 20°24 | 23°29 | 24°47 | M20 | |
| T 21 | 17 59 49 | 0♁40'20 | 23°46 | 7°20 | 11°54 | 5°18 | 24°37 | 14°14 | 0°36 | 24°38 | 13°26 | 19°30 | 20°21 | 23°35 | 24°50 | T 21 | |
| W22 | 18 3 45 | 1°37'43 | 6♁1 | 8°27 | 13°1 | 5°58 | 24°47 | 14°18 | 0°34 | 24°40 | 13°27 | 19°28 | 20°18 | 23°42 | 24°53 | W22 | |
| T 23 | 18 7 42 | 2°35'05 | 18°30 | 9°38 | 14°9 | 6°39 | 24°56 | 14°22 | 0°32 | 24°42 | 13°27 | 19°26 | 20°15 | 23°49 | 24°57 | T 23 | |
| F 24 | 18 11 39 | 3°32'27 | 1♂17 | 10°52 | 15°16 | 7°19 | 25°6 | 14°26 | 0°30 | 24°44 | 13°28 | 19°23 | 20°12 | 23°55 | 25°0 | F 24 | |
| S 25 | 18 15 35 | 4°29'48 | 14°23 | 12°9 | 16°24 | 8°0 | 25°15 | 14°30 | 0°28 | 24°46 | 13°28 | 19°21 | 20°8 | 24°2 | 25°3 | S 25 | |
| S 26 | 18 19 32 | 5°27'09 | 27°48 | 13°30 | 17°31 | 8°40 | 25°24 | 14°34 | 0°26 | 24°49 | 13°29 | 19°20 | 20°5 | 24°9 | 25°6 | S 26 | |
| M27 | 18 23 28 | 6°24'30 | 11♁31 | 14°54 | 18°38 | 9°21 | 25°33 | 14°38 | 0°24 | 24°51 | 13°29 | 19°19 | 20°2 | 24°16 | 25°9 | M27 | |
| T 28 | 18 27 25 | 7°21'49 | 25°28 | 16°21 | 19°45 | 10°1 | 25°42 | 14°42 | 0°22 | 24°53 | 13°29 | 19°D19 | 19°59 | 24°22 | 25°13 | T 28 | |
| W29 | 18 31 21 | 8°19'08 | 9♂37 | 17°51 | 20°51 | 10°42 | 25°51 | 14°47 | 0°21 | 24°55 | 13°30 | 19°20 | 19°56 | 24°29 | 25°16 | W29 | |
| T 30 | 18 35 18 | 9♁16'27 | 23♁54 | 19♂24 | 21♁58 | 11♁22 | 25♂59 | 14♂51 | 0♁19 | 24♁57 | 13♂30 | 19♁20 | 19♁53 | 24♁36 | 25♁19 | T 30 | |

Delta T = 18m12s

ASTRODIENST EPHEMERIS for the year 2568
geocentric

JULY 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| F 1 | 18 39 15 | 10♄13'45 | 8♃15 | 21♂ 0 | 23♂ 4 | 12♄ 2 | 26♂ 8 | 14♃56 | 0°R17 | 24♄59 | 13♂30 | 19♂21 | 19♂49 | 24♃42 | 25♂22 | F 1 | | | | | | | | |
| S 2 | 18 43 11 | 11°11'01 | 22°35 | 22°40 | 24°10 | 12°42 | 26°16 | 15° 0 | 0♄15 | 25° 1 | 13°30 | 19°22 | 19°46 | 24°49 | 25°25 | S 2 | | | | | | | | |
| S 3 | 18 47 8 | 12° 8'18 | 6♄52 | 24°22 | 25°16 | 13°23 | 26°24 | 15° 5 | 0°14 | 25° 4 | 13°31 | 19°R22 | 19°43 | 24°56 | 25°28 | S 3 | | | | | | | | |
| M 4 | 18 51 4 | 13° 5'33 | 21° 3 | 26° 8 | 26°22 | 14° 3 | 26°32 | 15°10 | 0°12 | 25° 6 | 13°31 | 19°22 | 19°40 | 25° 3 | 25°31 | M 4 | | | | | | | | |
| T 5 | 18 55 1 | 14° 2'48 | 5♂ 5 | 27°56 | 27°28 | 14°43 | 26°40 | 15°14 | 0°10 | 25° 8 | 13°31 | 19°22 | 19°37 | 25° 9 | 25°34 | T 5 | | | | | | | | |
| W 6 | 18 58 57 | 15° 0'03 | 18°57 | 29°47 | 28°33 | 15°23 | 26°48 | 15°19 | 0° 9 | 25°10 | 13°31 | 19°21 | 19°33 | 25°16 | 25°36 | W 6 | | | | | | | | |
| T 7 | 19 2 54 | 15°57'17 | 2♃38 | 1♄41 | 29°38 | 16° 3 | 26°55 | 15°24 | 0° 7 | 25°12 | 13°31 | 19°21 | 19°30 | 25°23 | 25°39 | T 7 | | | | | | | | |
| F 8 | 19 6 50 | 16°54'31 | 16° 5 | 3°37 | 0♃44 | 16°43 | 27° 3 | 15°29 | 0° 6 | 25°15 | 13°31 | 19°21 | 19°27 | 25°29 | 25°42 | F 8 | | | | | | | | |
| S 9 | 19 10 47 | 17°51'44 | 29°19 | 5°36 | 1°48 | 17°23 | 27°10 | 15°35 | 0° 4 | 25°17 | 13°32 | 19°21 | 19°24 | 25°36 | 25°45 | S 9 | | | | | | | | |
| S 10 | 19 14 44 | 18°48'57 | 12♂19 | 7°37 | 2°53 | 18° 3 | 27°17 | 15°40 | 0° 3 | 25°19 | 13°32 | 19°D21 | 19°21 | 25°43 | 25°48 | S 10 | | | | | | | | |
| M 11 | 19 18 40 | 19°46'10 | 25° 4 | 9°40 | 3°57 | 18°43 | 27°24 | 15°45 | 0° 2 | 25°21 | 13°32 | 19°R21 | 19°18 | 25°49 | 25°50 | M 11 | | | | | | | | |
| T 12 | 19 22 37 | 20°43'22 | 7♂36 | 11°45 | 5° 1 | 19°23 | 27°31 | 15°50 | 0° 0 | 25°24 | 13°32 | 19°20 | 19°14 | 25°56 | 25°53 | T 12 | | | | | | | | |
| W 13 | 19 26 33 | 21°40'35 | 19°54 | 13°52 | 6° 5 | 20° 2 | 27°38 | 15°56 | 29♂59 | 25°26 | 13°R32 | 19°20 | 19°11 | 26° 3 | 25°55 | W 13 | | | | | | | | |
| T 14 | 19 30 30 | 22°37'48 | 2♃ 2 | 16° 0 | 7° 9 | 20°42 | 27°44 | 16° 1 | 29°58 | 25°28 | 13°32 | 19°20 | 19° 8 | 26°10 | 25°58 | T 14 | | | | | | | | |
| F 15 | 19 34 26 | 23°35'01 | 14° 1 | 18° 8 | 8°12 | 21°22 | 27°51 | 16° 7 | 29°57 | 25°30 | 13°32 | 19°19 | 19° 5 | 26°16 | 26° 0 | F 15 | | | | | | | | |
| S 16 | 19 38 23 | 24°32'14 | 25°55 | 20°18 | 9°16 | 22° 2 | 27°57 | 16°12 | 29°56 | 25°32 | 13°32 | 19°19 | 19° 2 | 26°23 | 26° 3 | S 16 | | | | | | | | |
| S 17 | 19 42 19 | 25°29'27 | 7♂48 | 22°28 | 10°19 | 22°41 | 28° 3 | 16°18 | 29°55 | 25°35 | 13°32 | 19°18 | 18°59 | 26°30 | 26° 5 | S 17 | | | | | | | | |
| M 18 | 19 46 16 | 26°26'41 | 19°43 | 24°38 | 11°21 | 23°21 | 28° 9 | 16°24 | 29°54 | 25°37 | 13°31 | 19°18 | 18°55 | 26°36 | 26° 8 | M 18 | | | | | | | | |
| T 19 | 19 50 13 | 27°23'55 | 1♄45 | 26°47 | 12°24 | 24° 1 | 28°15 | 16°29 | 29°53 | 25°39 | 13°31 | 19°D18 | 18°52 | 26°43 | 26°10 | T 19 | | | | | | | | |
| W 20 | 19 54 9 | 28°21'10 | 13°59 | 28°57 | 13°26 | 24°40 | 28°20 | 16°35 | 29°52 | 25°41 | 13°31 | 19°18 | 18°49 | 26°50 | 26°12 | W 20 | | | | | | | | |
| T 21 | 19 58 6 | 29°18'25 | 26°28 | 1♂ 6 | 14°28 | 25°20 | 28°26 | 16°41 | 29°51 | 25°44 | 13°31 | 19°19 | 18°46 | 26°57 | 26°14 | T 21 | | | | | | | | |
| F 22 | 20 2 2 | 0♄15'40 | 9♂17 | 3°13 | 15°29 | 25°59 | 28°31 | 16°47 | 29°50 | 25°46 | 13°31 | 19°20 | 18°43 | 27° 3 | 26°17 | F 22 | | | | | | | | |
| S 23 | 20 5 59 | 1°12'56 | 22°29 | 5°20 | 16°30 | 26°39 | 28°36 | 16°53 | 29°49 | 25°48 | 13°31 | 19°21 | 18°39 | 27°10 | 26°19 | S 23 | | | | | | | | |
| S 24 | 20 9 55 | 2°10'13 | 6♄ 4 | 7°26 | 17°31 | 27°18 | 28°41 | 16°59 | 29°48 | 25°50 | 13°30 | 19°22 | 18°36 | 27°17 | 26°21 | S 24 | | | | | | | | |
| M 25 | 20 13 52 | 3° 7'30 | 20° 2 | 9°30 | 18°32 | 27°58 | 28°46 | 17° 5 | 29°48 | 25°52 | 13°30 | 19°R22 | 18°33 | 27°23 | 26°23 | M 25 | | | | | | | | |
| T 26 | 20 17 48 | 4° 4'47 | 4♂21 | 11°33 | 19°32 | 28°37 | 28°50 | 17°12 | 29°47 | 25°55 | 13°30 | 19°22 | 18°30 | 27°30 | 26°25 | T 26 | | | | | | | | |
| W 27 | 20 21 45 | 5° 2'05 | 18°55 | 13°34 | 20°32 | 29°17 | 28°55 | 17°18 | 29°46 | 25°57 | 13°30 | 19°20 | 18°27 | 27°37 | 26°27 | W 27 | | | | | | | | |
| T 28 | 20 25 42 | 5°59'23 | 3♃39 | 15°34 | 21°32 | 29°56 | 28°59 | 17°24 | 29°46 | 25°59 | 13°29 | 19°19 | 18°24 | 27°44 | 26°29 | T 28 | | | | | | | | |
| F 29 | 20 29 38 | 6°56'41 | 18°25 | 17°32 | 22°31 | 0♄35 | 29° 3 | 17°30 | 29°45 | 26° 1 | 13°29 | 19°17 | 18°20 | 27°50 | 26°31 | F 29 | | | | | | | | |
| S 30 | 20 33 35 | 7°54'00 | 3♄ 7 | 19°28 | 23°30 | 1°15 | 29° 7 | 17°37 | 29°45 | 26° 4 | 13°29 | 19°14 | 18°17 | 27°57 | 26°32 | S 30 | | | | | | | | |
| S 31 | 20 37 31 | 8♄51'18 | 17♂37 | 21♂23 | 24♃29 | 1♄54 | 29♂11 | 17♃43 | 29♂45 | 26♄ 6 | 13♂28 | 19♂13 | 18♂14 | 28♃ 4 | 26♂34 | S 31 | | | | | | | | |

Delta T = 18m12s

AUGUST 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|-------|--------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| M 1 | 20 41 28 | 9♄48'37 | 1♂53 | 23♂16 | 25♃27 | 2♄33 | 29♂14 | 17♃50 | 29°R44 | 26♄ 8 | 13°R28 | 19°R12 | 18♂11 | 28♃10 | 26♂36 | M 1 | | | | | | | | |
| T 2 | 20 45 24 | 10°45'57 | 15°51 | 25° 7 | 26°24 | 3°12 | 29°17 | 17°56 | 29♂44 | 26°10 | 13°R27 | 19°D12 | 18° 8 | 28°17 | 26°37 | T 2 | | | | | | | | |
| W 3 | 20 49 21 | 11°43'16 | 29°31 | 26°56 | 27°22 | 3°51 | 29°20 | 18° 3 | 29°44 | 26°12 | 13°27 | 19♂12 | 18° 4 | 28°24 | 26°39 | W 3 | | | | | | | | |
| T 4 | 20 53 17 | 12°40'36 | 12♃54 | 28°44 | 28°18 | 4°31 | 29°23 | 18°10 | 29°44 | 26°14 | 13°26 | 19°14 | 18° 1 | 28°31 | 26°41 | T 4 | | | | | | | | |
| F 5 | 20 57 14 | 13°37'57 | 26° 0 | 0♃30 | 29°15 | 5°10 | 29°26 | 18°16 | 29°43 | 26°17 | 13°26 | 19°15 | 17°58 | 28°37 | 26°42 | F 5 | | | | | | | | |
| S 6 | 21 1 11 | 14°35'17 | 8♂52 | 2°14 | 0♄11 | 5°49 | 29°29 | 18°23 | 29°43 | 26°19 | 13°25 | 19°16 | 17°55 | 28°44 | 26°43 | S 6 | | | | | | | | |
| S 7 | 21 5 7 | 15°32'39 | 21°31 | 3°56 | 1° 6 | 6°28 | 29°31 | 18°30 | 29°D43 | 26°21 | 13°25 | 19°R17 | 17°52 | 28°51 | 26°45 | S 7 | | | | | | | | |
| M 8 | 21 9 4 | 16°30'01 | 3♂58 | 5°37 | 2° 1 | 7° 7 | 29°33 | 18°36 | 29°43 | 26°23 | 13°24 | 19°16 | 17°49 | 28°57 | 26°46 | M 8 | | | | | | | | |
| T 9 | 21 13 0 | 17°27'24 | 16°16 | 7°16 | 2°55 | 7°46 | 29°35 | 18°43 | 29°43 | 26°25 | 13°24 | 19°14 | 17°45 | 29° 4 | 26°47 | T 9 | | | | | | | | |
| W 10 | 21 16 57 | 18°24'47 | 28°24 | 8°53 | 3°49 | 8°25 | 29°37 | 18°50 | 29°43 | 26°27 | 13°23 | 19°10 | 17°42 | 29°11 | 26°49 | W 10 | | | | | | | | |
| T 11 | 21 20 53 | 19°22'11 | 10♃26 | 10°29 | 4°42 | 9° 4 | 29°39 | 18°57 | 29°44 | 26°29 | 13°23 | 19° 5 | 17°39 | 29°18 | 26°50 | T 11 | | | | | | | | |
| F 12 | 21 24 50 | 20°19'36 | 22°22 | 12° 3 | 5°35 | 9°43 | 29°40 | 19° 4 | 29°44 | 26°31 | 13°22 | 19° 0 | 17°36 | 29°24 | 26°51 | F 12 | | | | | | | | |
| S 13 | 21 28 46 | 21°17'03 | 4♂14 | 13°35 | 6°27 | 10°22 | 29°41 | 19°11 | 29°44 | 26°33 | 13°21 | 18°54 | 17°33 | 29°31 | 26°52 | S 13 | | | | | | | | |
| S 14 | 21 32 43 | 22°14'30 | 16° 6 | 15° 5 | 7°18 | 11° 0 | 29°42 | 19°18 | 29°44 | 26°35 | 13°21 | 18°49 | 17°30 | 29°38 | 26°53 | S 14 | | | | | | | | |
| M 15 | 21 36 40 | 23°11'58 | 28° 0 | 16°34 | 8° 9 | 11°39 | 29°43 | 19°25 | 29°45 | 26°38 | 13°20 | 18°45 | 17°26 | 29°44 | 26°54 | M 15 | | | | | | | | |
| T 16 | 21 40 36 | 24° 9'28 | 10♂ 1 | 18° 1 | 8°59 | 12°18 | 29°44 | 19°32 | 29°45 | 26°40 | 13°19 | 18°43 | 17°23 | 29°51 | 26°55 | T 16 | | | | | | | | |
| W 17 | 21 44 33 | 25° 6'59 | 22°12 | 19°27 | 9°49 | 12°57 | 29°44 | 19°39 | 29°46 | 26°42 | 13°19 | 18°D42 | 17°20 | 29°58 | 26°56 | W 17 | | | | | | | | |
| T 18 | 21 48 29 | 26° 4'31 | 4♂38 | 20°50 | 10°37 | 13°36 | 29°44 | 19°46 | 29°46 | 26°44 | 13°18 | 18°42 | 17°17 | 0♂ 5 | 26°56 | T 18 | | | | | | | | |
| F 19 | 21 52 26 | 27° 2'05 | 17°24 | 22°12 | 11°25 | 14°14 | 29°R44 | 19°54 | 29°47 | 26°46 | 13°17 | 18°43 | 17°14 | 0°11 | 26°57 | F 19 | | | | | | | | |
| S 20 | 21 56 22 | 27°59'40 | 0♄33 | 23°32 | 12°12 | 14°53 | 29°44 | 20° 1 | 29°48 | 26°48 | 13°16 | 18°45 | 17°10 | 0°18 | 26°58 | S 20 | | | | | | | | |
| S 21 | 22 0 19 | 28°57'17 | 14° 9 | 24°50 | 12°59 | 15°32 | 29°44 | 20° 8 | 29°48 | 26°49 | 13°16 | 18°R46 | 17° 7 | 0°25 | 26°58 | S 21 | | | | | | | | |
| M 22 | 22 4 15 | 29°54'55 | 28°12 | 26° 6 | 13°44 | 16°10 | 29°43 | 20°15 | 29°49 | 26°51 | 13°15 | 18°45 | 17° 4 | 0°32 | 26°59 | M 22 | | | | | | | | |
| T 23 | 22 8 12 | 0♃52'34 | 12♂41 | 27°20 | 14°29 | 16°49 | 29°42 | 20°22 | 29°50 | 26°53 | 13°14 | 18°43 | 17° 1 | 0°38 | 26°59 | T 23 | | | | | | | | |
| W 24 | 22 12 9 | 1°50'14 | 27°31 | 28°32 | 15°13 | 17°28 | 29°41 | 20°30 | 29°51 | 26°55 | 13°13 | 18°39 | 16°58 | 0°45 | 27° 0 | W 24 | | | | | | | | |
| T 25 | 22 16 5 | 2°47'56 | 12♃35 | 29°42 | 15°56 | 18° 6 | 29°40 | 20°37 | 29°52 | 26°57 | 13°12 | 18°34 | 16°55 | 0°52 | 27° 0 | T 25 | | | | | | | | |
| F 26 | 22 20 2 | 3°45'38 | 27°44 | 0♄49 | 16°38 | 18°45 | 29°39 | 20°44 | 29°53 | 26°59 | 13°11 | 18°27 | 16°51 | 0°58 | 27° 0 | F 26 | | | | | | | | |
| S 27 | 22 23 58 | 4°43'22 | 12♄47 | 1°55 | 17°19 | 19°23 | 29°37 | 20°52 | 29°54 | 27° 1 | 13°11 | 18°21 | 16°48 | 1° 5 | 27° 1 | S 27 | | | | | | | | |
| S 28 | 22 27 55 | 5°41'07 | 27°36 | 2°58 | 17°59 | 20° 2 | 29°35 | 20°59 | 29°55 | 27° 3 | 13°10 | 18°15 | 16°45 | 1°12 | 27° 1 | S 28 | | | | | | | | |
| M 29 | 22 31 51 | 6°38'53 | 12♂ 4 | 3°58 | 18°38 | 20°40 | 29°33 | 21° 7 | 29°56 | 27° 5 | 13° 9 | 18°10 | 16°42 | 1°19 | 27° 1 | M 29 | | | | | | | | |
| T 30 | 22 35 48 | 7°36'41 | 26° 7 | 4°56 | 19°15 | 21°19 | 29°31 | 21°14 | 29°57 | 27° 6 | 13° 8 | 18° 8 | 16°39 | 1°25 | 27° 1 | T 30 | | | | | | | | |
| W 31 | 22 39 44 | 8♃34'29 | 9♂46 | 5♄51 | 19♄52 | 21♂57 | 29♂29 | 21♃22 | 29♂58 | 27♄ 8 | 13♂ 7 | 18°D 7 | 16♂36 | 1♂32 | 27°R 1 | W 31 | | | | | | | | |

Delta T = 18m13s

ASTRODIENST EPHEMERIS for the year 2568
geocentric

SEPTEMBER 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------|-------|--------|--------|-------|--------|-------|-------|-------|--------|--------|-------|-------|--------|------|-----|
| T 1 | 22 43 41 | 9♉32'18" | 23♌1 | 6♄43 | 20♁27 | 22♁36 | 29°R26 | 21♉29 | 29♉59 | 27♁10 | 13°R 6 | 18♌8 | 16♌32 | 1♃39 | 27°R 1 | T 1 | |
| F 2 | 22 47 38 | 10°30'09" | 5♌56 | 7°32 | 21° 1 | 23°14 | 29♃23 | 21°36 | 0♌1 | 27°12 | 13♃5 | 18° 9 | 16°29 | 1°45 | 27♌1 | F 2 | |
| S 3 | 22 51 34 | 11°28'01" | 18°33 | 8°17 | 21°34 | 23°52 | 29°20 | 21°44 | 0° 2 | 27°13 | 13° 4 | 18°R10 | 16°26 | 1°52 | 27° 1 | S 3 | |
| S 4 | 22 55 31 | 12°25'54" | 0♌57 | 8°59 | 22° 5 | 24°31 | 29°17 | 21°51 | 0° 3 | 27°15 | 13° 3 | 18° 9 | 16°23 | 1°59 | 27° 1 | S 4 | |
| M 5 | 22 59 27 | 13°23'48" | 13°10 | 9°38 | 22°35 | 25° 9 | 29°14 | 21°59 | 0° 5 | 27°17 | 13° 2 | 18° 6 | 16°20 | 2° 6 | 27° 0 | M 5 | |
| T 6 | 23 3 24 | 14°21'43" | 25°16 | 10°12 | 23° 3 | 25°47 | 29°11 | 22° 7 | 0° 6 | 27°18 | 13° 1 | 18° 0 | 16°16 | 2°12 | 27° 0 | T 6 | |
| W 7 | 23 7 20 | 15°19'40" | 7♃15 | 10°42 | 23°30 | 26°25 | 29° 7 | 22°14 | 0° 8 | 27°20 | 13° 0 | 17°53 | 16°13 | 2°19 | 27° 0 | W 7 | |
| T 8 | 23 11 17 | 16°17'39" | 19°11 | 11° 8 | 23°55 | 27° 4 | 29° 3 | 22°22 | 0° 9 | 27°22 | 12°59 | 17°43 | 16°10 | 2°26 | 26°59 | T 8 | |
| F 9 | 23 15 13 | 17°15'39" | 1♃4 | 11°29 | 24°19 | 27°42 | 28°59 | 22°29 | 0°11 | 27°23 | 12°58 | 17°32 | 16° 7 | 2°32 | 26°59 | F 9 | |
| S 10 | 23 19 10 | 18°13'40" | 12°56 | 11°44 | 24°41 | 28°20 | 28°55 | 22°37 | 0°13 | 27°25 | 12°57 | 17°20 | 16° 4 | 2°39 | 26°58 | S 10 | |
| S 11 | 23 23 6 | 19°11'44" | 24°49 | 11°55 | 25° 1 | 28°58 | 28°50 | 22°44 | 0°15 | 27°26 | 12°56 | 17° 9 | 16° 1 | 2°46 | 26°57 | S 11 | |
| M12 | 23 27 3 | 20° 9'49" | 6♌45 | 12°R 0 | 25°19 | 29°36 | 28°46 | 22°52 | 0°16 | 27°28 | 12°55 | 17° 0 | 15°57 | 2°53 | 26°57 | M12 | |
| T 13 | 23 31 0 | 21° 7'56" | 18°46 | 11°59 | 25°35 | 0♉15 | 28°41 | 22°59 | 0°18 | 27°29 | 12°54 | 16°53 | 15°54 | 2°59 | 26°56 | T 13 | |
| W14 | 23 34 56 | 22° 6'05" | 0♉57 | 11°52 | 25°50 | 0°53 | 28°36 | 23° 7 | 0°20 | 27°31 | 12°53 | 16°49 | 15°51 | 3° 6 | 26°55 | W14 | |
| T 15 | 23 38 53 | 23° 4'16" | 13°20 | 11°38 | 26° 2 | 1°31 | 28°31 | 23°15 | 0°22 | 27°32 | 12°52 | 16°46 | 15°48 | 3°13 | 26°54 | T 15 | |
| F 16 | 23 42 49 | 24° 2'29" | 26° 1 | 11°18 | 26°12 | 2° 9 | 28°26 | 23°22 | 0°24 | 27°34 | 12°50 | 16°D46 | 15°45 | 3°19 | 26°54 | F 16 | |
| S 17 | 23 46 46 | 25° 0'44" | 9♌4 | 10°52 | 26°20 | 2°47 | 28°20 | 23°30 | 0°26 | 27°35 | 12°49 | 16°46 | 15°42 | 3°26 | 26°53 | S 17 | |
| S 18 | 23 50 42 | 25°59'01" | 22°33 | 10°19 | 26°26 | 3°25 | 28°15 | 23°37 | 0°28 | 27°36 | 12°48 | 16°R46 | 15°38 | 3°33 | 26°52 | S 18 | |
| M19 | 23 54 39 | 26°57'20" | 6♁30 | 9°40 | 26°30 | 4° 3 | 28° 9 | 23°45 | 0°30 | 27°38 | 12°47 | 16°45 | 15°35 | 3°40 | 26°50 | M19 | |
| T 20 | 23 58 35 | 27°55'41" | 20°56 | 8°55 | 26°R32 | 4°41 | 28° 3 | 23°52 | 0°32 | 27°39 | 12°46 | 16°41 | 15°32 | 3°46 | 26°49 | T 20 | |
| W21 | 0 2 32 | 28°54'04" | 5♉47 | 8° 5 | 26°31 | 5°19 | 27°57 | 24° 0 | 0°34 | 27°40 | 12°45 | 16°35 | 15°29 | 3°53 | 26°48 | W21 | |
| T 22 | 0 6 29 | 29°52'29" | 20°57 | 7°10 | 26°28 | 5°57 | 27°51 | 24° 8 | 0°37 | 27°42 | 12°44 | 16°26 | 15°26 | 4° 0 | 26°47 | T 22 | |
| F 23 | 0 10 25 | 0♌50'55" | 6♄17 | 6°11 | 26°22 | 6°35 | 27°44 | 24°15 | 0°39 | 27°43 | 12°43 | 16°16 | 15°22 | 4° 7 | 26°46 | F 23 | |
| S 24 | 0 14 22 | 1°49'24" | 21°34 | 5°10 | 26°15 | 7°13 | 27°38 | 24°23 | 0°41 | 27°44 | 12°41 | 16° 5 | 15°19 | 4°13 | 26°44 | S 24 | |
| S 25 | 0 18 18 | 2°47'54" | 6♉37 | 4° 7 | 26° 4 | 7°51 | 27°31 | 24°30 | 0°44 | 27°45 | 12°40 | 15°56 | 15°16 | 4°20 | 26°43 | S 25 | |
| M26 | 0 22 15 | 3°46'26" | 21°19 | 3° 5 | 25°52 | 8°28 | 27°25 | 24°38 | 0°46 | 27°46 | 12°39 | 15°48 | 15°13 | 4°27 | 26°41 | M26 | |
| T 27 | 0 26 11 | 4°45'00" | 5♌33 | 2° 3 | 25°37 | 9° 6 | 27°18 | 24°45 | 0°49 | 27°47 | 12°38 | 15°43 | 15°10 | 4°33 | 26°40 | T 27 | |
| W28 | 0 30 8 | 5°43'35" | 19°17 | 1° 5 | 25°19 | 9°44 | 27°11 | 24°53 | 0°51 | 27°48 | 12°37 | 15°40 | 15° 7 | 4°40 | 26°38 | W28 | |
| T 29 | 0 34 4 | 6°42'12" | 2♌34 | 0°12 | 25° 0 | 10°22 | 27° 4 | 25° 0 | 0°54 | 27°50 | 12°36 | 15°D40 | 15° 3 | 4°47 | 26°37 | T 29 | |
| F 30 | 0 38 1 | 7°40'51" | 15♌27 | 29♉24 | 24♁38 | 11♉0 | 26°V57 | 25♉8 | 0♌56 | 27°51 | 12°V34 | 15°R40 | 15♌0 | 4°V54 | 26♌35 | F 30 | |

Delta T = 18m13s

OCTOBER 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|-----------|-------|--------|--------|-------|--------|-------|------|--------|--------|--------|-------|-------|--------|------|-----|
| S 1 | 0 41 58 | 8♁39'31" | 27♌59 | 28°R44 | 24°R14 | 11♉38 | 26°R49 | 25♉15 | 0♌59 | 27°52 | 12°R33 | 15°R39 | 14♌57 | 5♃0 | 26°R33 | S 1 | |
| S 2 | 0 45 54 | 9°38'13" | 10♌15 | 28♉12 | 23♁48 | 12°15 | 26°V42 | 25°23 | 1° 1 | 27°52 | 12°V32 | 15♌37 | 14°54 | 5° 7 | 26♌32 | S 2 | |
| M 3 | 0 49 51 | 10°36'56" | 22°20 | 27°49 | 23°20 | 12°53 | 26°35 | 25°30 | 1° 4 | 27°53 | 12°31 | 15°33 | 14°51 | 5°14 | 26°30 | M 3 | |
| T 4 | 0 53 47 | 11°35'41" | 4♃18 | 27°36 | 22°50 | 13°31 | 26°27 | 25°37 | 1° 7 | 27°54 | 12°30 | 15°26 | 14°47 | 5°20 | 26°28 | T 4 | |
| W 5 | 0 57 44 | 12°34'28" | 16°12 | 27°D32 | 22°19 | 14° 8 | 26°20 | 25°45 | 1° 9 | 27°55 | 12°28 | 15°16 | 14°44 | 5°27 | 26°26 | W 5 | |
| T 6 | 1 1 40 | 13°33'17" | 28° 5 | 27°39 | 21°46 | 14°46 | 26°12 | 25°52 | 1°12 | 27°56 | 12°27 | 15° 3 | 14°41 | 5°34 | 26°24 | T 6 | |
| F 7 | 1 5 37 | 14°32'08" | 9♃57 | 27°56 | 21°12 | 15°24 | 26° 4 | 25°59 | 1°15 | 27°57 | 12°26 | 14°49 | 14°38 | 5°41 | 26°22 | F 7 | |
| S 8 | 1 9 33 | 15°31'00" | 21°51 | 28°23 | 20°37 | 16° 1 | 25°56 | 26° 7 | 1°18 | 27°58 | 12°25 | 14°35 | 14°35 | 5°47 | 26°20 | S 8 | |
| S 9 | 1 13 30 | 16°29'55" | 3♌49 | 28°59 | 20° 1 | 16°39 | 25°48 | 26°14 | 1°21 | 27°58 | 12°24 | 14°21 | 14°32 | 5°54 | 26°18 | S 9 | |
| M10 | 1 17 27 | 17°28'52" | 15°50 | 29°44 | 19°24 | 17°16 | 25°41 | 26°21 | 1°24 | 27°59 | 12°23 | 14° 9 | 14°28 | 6° 1 | 26°16 | M10 | |
| T 11 | 1 21 23 | 18°27'50" | 27°57 | 0♌37 | 18°47 | 17°54 | 25°33 | 26°28 | 1°27 | 28° 0 | 12°21 | 14° 0 | 14°25 | 6° 7 | 26°14 | T 11 | |
| W12 | 1 25 20 | 19°26'52" | 10♉13 | 1°38 | 18°10 | 18°32 | 25°25 | 26°36 | 1°30 | 28° 0 | 12°20 | 13°53 | 14°22 | 6°14 | 26°12 | W12 | |
| T 13 | 1 29 16 | 20°25'55" | 22°40 | 2°45 | 17°33 | 19° 9 | 25°17 | 26°43 | 1°33 | 28° 1 | 12°19 | 13°50 | 14°19 | 6°21 | 26° 9 | T 13 | |
| F 14 | 1 33 13 | 21°25'01" | 5♌21 | 3°59 | 16°57 | 19°47 | 25° 9 | 26°50 | 1°36 | 28° 2 | 12°18 | 13°48 | 14°16 | 6°28 | 26° 7 | F 14 | |
| S 15 | 1 37 9 | 22°24'09" | 18°21 | 5°18 | 16°21 | 20°24 | 25° 1 | 26°57 | 1°39 | 28° 2 | 12°17 | 13°48 | 14°13 | 6°34 | 26° 5 | S 15 | |
| S 16 | 1 41 6 | 23°23'19" | 1♁43 | 6°42 | 15°46 | 21° 2 | 24°52 | 27° 4 | 1°42 | 28° 3 | 12°16 | 13°48 | 14° 9 | 6°41 | 26° 2 | S 16 | |
| M17 | 1 45 2 | 24°22'31" | 15°30 | 8° 9 | 15°12 | 21°39 | 24°44 | 27°11 | 1°45 | 28° 3 | 12°14 | 13°47 | 14° 6 | 6°48 | 26° 0 | M17 | |
| T 18 | 1 48 59 | 25°21'46" | 29°43 | 9°41 | 14°40 | 22°16 | 24°36 | 27°18 | 1°48 | 28° 4 | 12°13 | 13°43 | 14° 3 | 6°55 | 25°58 | T 18 | |
| W19 | 1 52 56 | 26°21'03" | 14♉22 | 11°15 | 14° 9 | 22°54 | 24°28 | 27°25 | 1°51 | 28° 4 | 12°12 | 13°37 | 14° 0 | 7° 1 | 25°55 | W19 | |
| T 20 | 1 56 52 | 27°20'22" | 29°22 | 12°51 | 13°40 | 23°31 | 24°20 | 27°32 | 1°55 | 28° 4 | 12°11 | 13°28 | 13°57 | 7° 8 | 25°53 | T 20 | |
| F 21 | 2 0 49 | 28°19'43" | 14♁34 | 14°29 | 13°12 | 24° 9 | 24°12 | 27°39 | 1°58 | 28° 5 | 12°10 | 13°18 | 13°53 | 7°15 | 25°50 | F 21 | |
| S 22 | 2 4 45 | 29°19'07" | 29°48 | 16° 9 | 12°47 | 24°46 | 24° 4 | 27°46 | 2° 1 | 28° 5 | 12° 9 | 13° 7 | 13°50 | 7°21 | 25°47 | S 22 | |
| S 23 | 2 8 42 | 0♉18'32" | 14♉54 | 17°50 | 12°23 | 25°23 | 23°56 | 27°53 | 2° 4 | 28° 5 | 12° 8 | 12°57 | 13°47 | 7°28 | 25°45 | S 23 | |
| M24 | 2 12 38 | 1°18'00" | 29°41 | 19°32 | 12° 2 | 26° 1 | 23°48 | 28° 0 | 2° 8 | 28° 6 | 12° 6 | 12°49 | 13°44 | 7°35 | 25°42 | M24 | |
| T 25 | 2 16 35 | 2°17'30" | 14♌3 | 21°14 | 11°43 | 26°38 | 23°40 | 28° 6 | 2°11 | 28° 6 | 12° 5 | 12°43 | 13°41 | 7°42 | 25°40 | T 25 | |
| W26 | 2 20 31 | 3°17'01" | 27°55 | 22°57 | 11°26 | 27°15 | 23°32 | 28°13 | 2°14 | 28° 6 | 12° 4 | 12°40 | 13°38 | 7°48 | 25°37 | W26 | |
| T 27 | 2 24 28 | 4°16'34" | 11♌19 | 24°40 | 11°12 | 27°52 | 23°24 | 28°20 | 2°18 | 28° 6 | 12° 3 | 12°D40 | 13°34 | 7°55 | 25°34 | T 27 | |
| F 28 | 2 28 25 | 5°16'08" | 24°15 | 26°23 | 11° 0 | 28°30 | 23°17 | 28°26 | 2°21 | 28° 6 | 12° 2 | 12°40 | 13°31 | 8° 2 | 25°31 | F 28 | |
| S 29 | 2 32 21 | 6°15'45" | 6♌50 | 28° 6 | 10°51 | 29° 7 | 23° 9 | 28°33 | 2°25 | 28° 6 | 12° 1 | 12°R40 | 13°28 | 8° 8 | 25°29 | S 29 | |
| S 30 | 2 36 18 | 7°15'23" | 19° 6 | 29°48 | 10°44 | 29°44 | 23° 1 | 28°39 | 2°28 | 28° 6 | 12° 0 | 12°39 | 13°25 | 8°15 | 25°26 | S 30 | |
| M31 | 2 40 14 | 8♉15'02" | 1♃9 | 1♉31 | 10♁39 | 0♌21 | 22°V54 | 28♉46 | 2♌32 | 28°R 6 | 11°V59 | 12♌37 | 13♌22 | 8°V22 | 25♌23 | M31 | |

Delta T = 18m13s

ASTRODIENST EPHEMERIS for the year 2568
geocentric

NOVEMBER 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|--------|-------|--------|-------|------|--------|--------|--------|-------|--------|--------|------|-----|
| T 1 | 2 44 11 | 9♈14'44 | 13♋ 5 | 3♌13 | 10°D37 | 0♌58 | 22°R46 | 28♎52 | 2♊35 | 28°R 6 | 11°R58 | 12°R31 | 13♋19 | 8♈29 | 25°R20 | T 1 | |
| W 2 | 2 48 7 | 10°14'27 | 24°57 | 4°55 | 10♌38 | 1°35 | 22°V39 | 28°58 | 2°39 | 28♎ 6 | 11°V57 | 12♋24 | 13°15 | 8°35 | 25♋17 | W 2 | |
| T 3 | 2 52 4 | 11°14'12 | 6°V49 | 6°36 | 10°40 | 2°12 | 22°32 | 29° 5 | 2°42 | 28° 6 | 11°56 | 12°14 | 13°12 | 8°42 | 25°14 | T 3 | |
| F 4 | 2 56 0 | 12°13'58 | 18°43 | 8°17 | 10°45 | 2°49 | 22°25 | 29°11 | 2°46 | 28° 6 | 11°55 | 12° 3 | 13° 9 | 8°49 | 25°12 | F 4 | |
| S 5 | 2 59 57 | 13°13'47 | 0♋41 | 9°57 | 10°53 | 3°26 | 22°17 | 29°17 | 2°49 | 28° 6 | 11°54 | 11°51 | 13° 6 | 8°56 | 25° 9 | S 5 | |
| S 6 | 3 3 53 | 14°13'37 | 12°46 | 11°37 | 11° 2 | 4° 4 | 22°11 | 29°23 | 2°53 | 28° 6 | 11°53 | 11°40 | 13° 3 | 9° 2 | 25° 6 | S 6 | |
| M 7 | 3 7 50 | 15°13'29 | 24°58 | 13°17 | 11°14 | 4°41 | 22° 4 | 29°29 | 2°56 | 28° 5 | 11°52 | 11°30 | 12°59 | 9° 9 | 25° 3 | M 7 | |
| T 8 | 3 11 47 | 16°13'24 | 7♈17 | 14°56 | 11°28 | 5°17 | 21°57 | 29°35 | 3° 0 | 28° 5 | 11°51 | 11°23 | 12°56 | 9°16 | 25° 0 | T 8 | |
| W 9 | 3 15 43 | 17°13'20 | 19°46 | 16°34 | 11°44 | 5°54 | 21°50 | 29°41 | 3° 4 | 28° 5 | 11°50 | 11°18 | 12°53 | 9°22 | 24°57 | W 9 | |
| T 10 | 3 19 40 | 18°13'18 | 2♋25 | 18°12 | 12° 2 | 6°31 | 21°44 | 29°47 | 3° 7 | 28° 4 | 11°49 | 11°16 | 12°50 | 9°29 | 24°54 | T 10 | |
| F 11 | 3 23 36 | 19°13'19 | 15°16 | 19°50 | 12°22 | 7° 8 | 21°38 | 29°53 | 3°11 | 28° 4 | 11°48 | 11°D15 | 12°47 | 9°36 | 24°51 | F 11 | |
| S 12 | 3 27 33 | 20°13'21 | 28°22 | 21°27 | 12°44 | 7°45 | 21°32 | 29°59 | 3°15 | 28° 4 | 11°47 | 11°16 | 12°44 | 9°43 | 24°48 | S 12 | |
| S 13 | 3 31 29 | 21°13'26 | 11♌45 | 23° 4 | 13° 8 | 8°22 | 21°25 | 0♌ 4 | 3°18 | 28° 3 | 11°46 | 11°17 | 12°40 | 9°49 | 24°45 | S 13 | |
| M14 | 3 35 26 | 22°13'32 | 25°26 | 24°40 | 13°34 | 8°59 | 21°20 | 0°10 | 3°22 | 28° 3 | 11°46 | 11°R17 | 12°37 | 9°56 | 24°42 | M14 | |
| T 15 | 3 39 23 | 23°13'41 | 9♈28 | 26°16 | 14° 1 | 9°36 | 21°14 | 0°16 | 3°26 | 28° 2 | 11°45 | 11°16 | 12°34 | 10° 3 | 24°39 | T 15 | |
| W16 | 3 43 19 | 24°13'51 | 23°50 | 27°51 | 14°30 | 10°12 | 21° 8 | 0°21 | 3°29 | 28° 2 | 11°44 | 11°13 | 12°31 | 10°10 | 24°36 | W16 | |
| T 17 | 3 47 16 | 25°14'04 | 8♌28 | 29°27 | 15° 1 | 10°49 | 21° 3 | 0°27 | 3°33 | 28° 1 | 11°43 | 11° 8 | 12°28 | 10°16 | 24°33 | T 17 | |
| F 18 | 3 51 12 | 26°14'19 | 23°19 | 1♌ 1 | 15°33 | 11°26 | 20°58 | 0°32 | 3°37 | 28° 1 | 11°42 | 11° 1 | 12°25 | 10°23 | 24°30 | F 18 | |
| S 19 | 3 55 9 | 27°14'36 | 8♌13 | 2°36 | 16° 6 | 12° 3 | 20°53 | 0°37 | 3°40 | 28° 0 | 11°41 | 10°54 | 12°21 | 10°30 | 24°27 | S 19 | |
| S 20 | 3 59 5 | 28°14'54 | 23° 4 | 4°10 | 16°41 | 12°39 | 20°48 | 0°42 | 3°44 | 27°59 | 11°41 | 10°47 | 12°18 | 10°36 | 24°24 | S 20 | |
| M21 | 4 3 2 | 29°15'14 | 7♈41 | 5°44 | 17°18 | 13°16 | 20°43 | 0°47 | 3°48 | 27°59 | 11°40 | 10°42 | 12°15 | 10°43 | 24°21 | M21 | |
| T 22 | 4 6 58 | 0♌15'36 | 21°59 | 7°17 | 17°55 | 13°53 | 20°38 | 0°53 | 3°52 | 27°58 | 11°39 | 10°39 | 12°12 | 10°50 | 24°18 | T 22 | |
| W23 | 4 10 55 | 1°16'00 | 5♋53 | 8°51 | 18°34 | 14°29 | 20°34 | 0°58 | 3°55 | 27°57 | 11°39 | 10°D37 | 12° 9 | 10°57 | 24°15 | W23 | |
| T 24 | 4 14 52 | 2°16'25 | 19°50 | 10°24 | 19°15 | 15° 6 | 20°30 | 1° 2 | 3°59 | 27°56 | 11°38 | 10°37 | 12° 5 | 11° 3 | 24°12 | T 24 | |
| F 25 | 4 18 48 | 3°16'51 | 2♋21 | 11°56 | 19°56 | 15°43 | 20°26 | 1° 7 | 4° 3 | 27°56 | 11°37 | 10°39 | 12° 2 | 11°10 | 24° 9 | F 25 | |
| S 26 | 4 22 45 | 4°17'19 | 15° 1 | 13°29 | 20°38 | 16°19 | 20°22 | 1°12 | 4° 6 | 27°55 | 11°36 | 10°40 | 11°59 | 11°17 | 24° 6 | S 26 | |
| S 27 | 4 26 41 | 5°17'48 | 27°21 | 15° 1 | 21°22 | 16°56 | 20°18 | 1°17 | 4°10 | 27°54 | 11°36 | 10°42 | 11°56 | 11°23 | 24° 3 | S 27 | |
| M28 | 4 30 38 | 6°18'18 | 9♈27 | 16°33 | 22° 6 | 17°32 | 20°15 | 1°21 | 4°14 | 27°53 | 11°35 | 10°R42 | 11°53 | 11°30 | 24° 0 | M28 | |
| T 29 | 4 34 34 | 7°18'49 | 21°24 | 18° 5 | 22°52 | 18° 8 | 20°12 | 1°26 | 4°18 | 27°52 | 11°35 | 10°41 | 11°50 | 11°37 | 23°57 | T 29 | |
| W30 | 4 38 31 | 8♌19'21 | 3♈16 | 19♌36 | 23♌39 | 18♌45 | 20°V 9 | 1♌30 | 4♌21 | 27♌51 | 11°V34 | 10♋38 | 11♋46 | 11°V44 | 23♋54 | W30 | |

Delta T = 18m14s

DECEMBER 2568

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|-------|-------|-------|--------|------|------|--------|--------|--------|-------|--------|--------|------|-----|
| T 1 | 4 42 27 | 9♌19'55 | 15♈ 8 | 21♌ 7 | 24♌26 | 19♌21 | 20°R 6 | 1♌34 | 4♌25 | 27°R50 | 11°R34 | 10°R34 | 11♋43 | 11°V50 | 23°R52 | T 1 | |
| F 2 | 4 46 24 | 10°20'30 | 27° 5 | 22°38 | 25°14 | 19°58 | 20°V 3 | 1°39 | 4°29 | 27♌49 | 11°V33 | 10♋29 | 11°40 | 11°57 | 23♋49 | F 2 | |
| S 3 | 4 50 21 | 11°21'06 | 9♋ 8 | 24° 9 | 26° 4 | 20°34 | 20° 1 | 1°43 | 4°33 | 27°48 | 11°32 | 10°24 | 11°37 | 12° 4 | 23°46 | S 3 | |
| S 4 | 4 54 17 | 12°21'44 | 21°20 | 25°40 | 26°54 | 21°10 | 19°59 | 1°47 | 4°36 | 27°47 | 11°32 | 10°19 | 11°34 | 12°11 | 23°43 | S 4 | |
| M 5 | 4 58 14 | 13°22'22 | 3♈44 | 27°10 | 27°45 | 21°46 | 19°57 | 1°51 | 4°40 | 27°46 | 11°32 | 10°14 | 11°31 | 12°17 | 23°40 | M 5 | |
| T 6 | 5 2 10 | 14°23'02 | 16°19 | 28°40 | 28°36 | 22°23 | 19°55 | 1°55 | 4°44 | 27°45 | 11°31 | 10°11 | 11°27 | 12°24 | 23°37 | T 6 | |
| W 7 | 5 6 7 | 15°23'44 | 29° 6 | 0♋10 | 29°29 | 22°59 | 19°53 | 1°59 | 4°47 | 27°44 | 11°31 | 10° 9 | 11°24 | 12°31 | 23°35 | W 7 | |
| T 8 | 5 10 3 | 16°24'26 | 12♋ 6 | 1°39 | 0♌22 | 23°35 | 19°52 | 2° 2 | 4°51 | 27°43 | 11°30 | 10°D 9 | 11°21 | 12°37 | 23°32 | T 8 | |
| F 9 | 5 14 0 | 17°25'11 | 25°18 | 3° 8 | 1°16 | 24°11 | 19°50 | 2° 6 | 4°55 | 27°41 | 11°30 | 10° 9 | 11°18 | 12°44 | 23°29 | F 9 | |
| S 10 | 5 17 56 | 18°25'56 | 8♌42 | 4°36 | 2°10 | 24°47 | 19°49 | 2° 9 | 4°58 | 27°40 | 11°30 | 10°11 | 11°15 | 12°51 | 23°27 | S 10 | |
| S 11 | 5 21 53 | 19°26'43 | 22°19 | 6° 4 | 3° 6 | 25°23 | 19°49 | 2°13 | 5° 2 | 27°39 | 11°29 | 10°12 | 11°11 | 12°58 | 23°24 | S 11 | |
| M12 | 5 25 50 | 20°27'31 | 6♈ 7 | 7°31 | 4° 1 | 25°59 | 19°48 | 2°16 | 5° 6 | 27°38 | 11°29 | 10°13 | 11° 8 | 13° 4 | 23°21 | M12 | |
| T 13 | 5 29 46 | 21°28'21 | 20° 7 | 8°57 | 4°58 | 26°35 | 19°48 | 2°19 | 5° 9 | 27°36 | 11°29 | 10°R14 | 11° 5 | 13°11 | 23°19 | T 13 | |
| W14 | 5 33 43 | 22°29'11 | 4♌18 | 10°23 | 5°55 | 27°11 | 19°D48 | 2°23 | 5°13 | 27°35 | 11°28 | 10°14 | 11° 2 | 13°18 | 23°16 | W14 | |
| T 15 | 5 37 39 | 23°30'04 | 18°37 | 11°47 | 6°52 | 27°47 | 19°48 | 2°26 | 5°17 | 27°34 | 11°28 | 10°12 | 10°59 | 13°25 | 23°14 | T 15 | |
| F 16 | 5 41 36 | 24°30'58 | 3♌ 1 | 13°11 | 7°50 | 28°23 | 19°48 | 2°29 | 5°20 | 27°32 | 11°28 | 10°11 | 10°56 | 13°31 | 23°11 | F 16 | |
| S 17 | 5 45 32 | 25°31'53 | 17°27 | 14°33 | 8°49 | 28°59 | 19°48 | 2°31 | 5°24 | 27°31 | 11°28 | 10° 9 | 10°52 | 13°38 | 23° 9 | S 17 | |
| S 18 | 5 49 29 | 26°32'49 | 1♌49 | 15°53 | 9°48 | 29°35 | 19°49 | 2°34 | 5°27 | 27°30 | 11°27 | 10° 7 | 10°49 | 13°45 | 23° 6 | S 18 | |
| M19 | 5 53 25 | 27°33'46 | 16° 3 | 17°12 | 10°47 | 0♌10 | 19°50 | 2°37 | 5°31 | 27°28 | 11°27 | 10° 5 | 10°46 | 13°51 | 23° 4 | M19 | |
| T 20 | 5 57 22 | 28°34'44 | 0♋ 2 | 18°28 | 11°48 | 0°46 | 19°51 | 2°39 | 5°34 | 27°27 | 11°27 | 10° 5 | 10°43 | 13°58 | 23° 2 | T 20 | |
| W21 | 6 1 19 | 29°35'44 | 13°43 | 19°42 | 12°48 | 1°22 | 19°52 | 2°42 | 5°38 | 27°25 | 11°27 | 10°D 4 | 10°40 | 14° 5 | 22°59 | W21 | |
| T 22 | 6 5 15 | 0♋36'43 | 27° 5 | 20°52 | 13°49 | 1°58 | 19°54 | 2°44 | 5°41 | 27°24 | 11°27 | 10° 5 | 10°37 | 14°12 | 22°57 | T 22 | |
| F 23 | 6 9 12 | 1°37'44 | 10♋ 5 | 22° 0 | 14°50 | 2°33 | 19°56 | 2°46 | 5°45 | 27°22 | 11°27 | 10° 6 | 10°33 | 14°18 | 22°55 | F 23 | |
| S 24 | 6 13 8 | 2°38'45 | 22°46 | 23° 3 | 15°52 | 3° 9 | 19°57 | 2°48 | 5°48 | 27°21 | 11°27 | 10° 6 | 10°30 | 14°25 | 22°53 | S 24 | |
| S 25 | 6 17 5 | 3°39'46 | 5♋ 9 | 24° 2 | 16°54 | 3°44 | 20° 0 | 2°50 | 5°52 | 27°19 | 11°D27 | 10° 7 | 10°27 | 14°32 | 22°51 | S 25 | |
| M26 | 6 21 1 | 4°40'48 | 17°18 | 24°56 | 17°56 | 4°20 | 20° 2 | 2°52 | 5°55 | 27°18 | 11°27 | 10° 8 | 10°24 | 14°38 | 22°49 | M26 | |
| T 27 | 6 24 58 | 5°41'51 | 29°17 | 25°43 | 18°59 | 4°55 | 20° 4 | 2°54 | 5°58 | 27°16 | 11°27 | 10° 8 | 10°21 | 14°45 | 22°47 | T 27 | |
| W28 | 6 28 54 | 6°42'53 | 11°V11 | 26°24 | 20° 2 | 5°30 | 20° 7 | 2°56 | 6° 2 | 27°15 | 11°27 | 10°R 8 | 10°17 | 14°52 | 22°45 | W28 | |
| T 29 | 6 32 51 | 7°43'56 | 23° 3 | 26°57 | 21° 6 | 6° 6 | 20°10 | 2°57 | 6° 5 | 27°13 | 11°27 | 10° 8 | 10°14 | 14°59 | 22°43 | T 29 | |
| F 30 | 6 36 48 | 8°44'59 | 5♋ 0 | 27°21 | 22° 9 | 6°41 | 20°13 | 2°59 | 6° 8 | 27°12 | 11°27 | 10° 8 | 10°11 | 15° 5 | 22°41 | F 30 | |
| S 31 | 6 40 44 | 9♋46'03 | 17♋ 5 | 27♋36 | 23♌14 | 7♌16 | 20°V17 | 3♌ 0 | 6♌12 | 27♌10 | 11°V27 | 10°D 8 | 10♋ 8 | 15°V12 | 22♋39 | S 31 | |

Delta T = 18m14s

ASTRODIENST EPHEMERIS for the year 2569
geocentric

JANUARY 2569

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|-------|------|--------|--------|--------|-------|--------|--------|------|-----|
| S 1 | 6 44 41 | 10♌47'07 | 29♋22 | 27°R41 | 24♍18 | 7♍51 | 20°V20 | 3♌1 | 6♌15 | 27°R 8 | 11°V27 | 10♌8 | 10♌5 | 15°V19 | 22°R37 | S 1 | |
| M 2 | 6 48 37 | 11°48'11 | 11♋53 | 27♌34 | 25°23 | 8°27 | 20°24 | 3° 3 | 6°18 | 27°R 7 | 11°28 | 10° 8 | 10° 2 | 15°26 | 22°R36 | M 2 | |
| T 3 | 6 52 34 | 12°49'16 | 24°42 | 27°16 | 26°28 | 9° 2 | 20°28 | 3° 4 | 6°21 | 27° 5 | 11°28 | 10° 8 | 9°58 | 15°32 | 22°34 | T 3 | |
| W 4 | 6 56 30 | 13°50'20 | 7♋48 | 26°47 | 27°33 | 9°37 | 20°32 | 3° 5 | 6°25 | 27° 4 | 11°28 | 10°R 8 | 9°55 | 15°39 | 22°32 | W 4 | |
| T 5 | 7 0 27 | 14°51'25 | 21°12 | 26° 5 | 28°38 | 10°12 | 20°36 | 3° 5 | 6°28 | 27° 2 | 11°28 | 10° 8 | 9°52 | 15°46 | 22°31 | T 5 | |
| F 6 | 7 4 24 | 15°52'31 | 4♌51 | 25°12 | 29°44 | 10°47 | 20°41 | 3° 6 | 6°31 | 27° 0 | 11°29 | 10° 8 | 9°49 | 15°52 | 22°29 | F 6 | |
| S 7 | 7 8 20 | 16°53'36 | 18°43 | 24°10 | 0♌50 | 11°21 | 20°45 | 3° 7 | 6°34 | 26°59 | 11°29 | 10° 7 | 9°46 | 15°59 | 22°28 | S 7 | |
| S 8 | 7 12 17 | 17°54'42 | 2♍46 | 22°59 | 1°57 | 11°56 | 20°50 | 3° 7 | 6°37 | 26°57 | 11°29 | 10° 6 | 9°43 | 16° 6 | 22°26 | S 8 | |
| M 9 | 7 16 13 | 18°55'49 | 16°55 | 21°42 | 3° 3 | 12°31 | 20°55 | 3° 8 | 6°40 | 26°55 | 11°29 | 10° 5 | 9°39 | 16°13 | 22°25 | M 9 | |
| T 10 | 7 20 10 | 19°56'55 | 1♌7 | 20°21 | 4°10 | 13° 6 | 21° 0 | 3° 8 | 6°43 | 26°54 | 11°30 | 10° 4 | 9°36 | 16°19 | 22°24 | T 10 | |
| W 11 | 7 24 6 | 20°58'02 | 15°20 | 19° 0 | 5°17 | 13°40 | 21° 6 | 3° 8 | 6°46 | 26°52 | 11°30 | 10°D 4 | 9°33 | 16°26 | 22°23 | W 11 | |
| T 12 | 7 28 3 | 21°59'10 | 29°31 | 17°40 | 6°24 | 14°15 | 21°11 | 3°R 8 | 6°49 | 26°50 | 11°31 | 10° 4 | 9°30 | 16°33 | 22°21 | T 12 | |
| F 13 | 7 31 59 | 23° 0'18 | 13♍38 | 16°24 | 7°32 | 14°50 | 21°17 | 3° 8 | 6°52 | 26°49 | 11°31 | 10° 4 | 9°27 | 16°40 | 22°20 | F 13 | |
| S 14 | 7 35 56 | 24° 1'26 | 27°38 | 15°15 | 8°39 | 15°24 | 21°23 | 3° 8 | 6°55 | 26°47 | 11°32 | 10° 5 | 9°23 | 16°46 | 22°19 | S 14 | |
| S 15 | 7 39 53 | 25° 2'35 | 11♌31 | 14°13 | 9°47 | 15°58 | 21°29 | 3° 8 | 6°57 | 26°45 | 11°32 | 10° 7 | 9°20 | 16°53 | 22°18 | S 15 | |
| M 16 | 7 43 49 | 26° 3'43 | 25°14 | 13°20 | 10°55 | 16°33 | 21°36 | 3° 7 | 7° 0 | 26°43 | 11°33 | 10° 8 | 9°17 | 17° 0 | 22°17 | M 16 | |
| T 17 | 7 47 46 | 27° 4'52 | 8♌46 | 12°37 | 12° 3 | 17° 7 | 21°42 | 3° 7 | 7° 3 | 26°42 | 11°33 | 10°R 8 | 9°14 | 17° 6 | 22°16 | T 17 | |
| W 18 | 7 51 42 | 28° 6'01 | 22° 6 | 12° 5 | 13°11 | 17°41 | 21°49 | 3° 6 | 7° 6 | 26°40 | 11°34 | 10° 8 | 9°11 | 17°13 | 22°16 | W 18 | |
| T 19 | 7 55 39 | 29° 7'09 | 5♌11 | 11°42 | 14°20 | 18°15 | 21°55 | 3° 5 | 7° 8 | 26°38 | 11°34 | 10° 6 | 9° 8 | 17°20 | 22°15 | T 19 | |
| F 20 | 7 59 35 | 0♌8'17 | 18° 1 | 11°29 | 15°29 | 18°50 | 22° 2 | 3° 4 | 7°11 | 26°37 | 11°35 | 10° 4 | 9° 4 | 17°27 | 22°14 | F 20 | |
| S 21 | 8 3 32 | 1° 9'25 | 0♌36 | 11°D24 | 16°37 | 19°24 | 22° 9 | 3° 4 | 7°13 | 26°35 | 11°35 | 10° 1 | 9° 1 | 17°33 | 22°14 | S 21 | |
| S 22 | 8 7 28 | 2°10'32 | 12°57 | 11°29 | 17°46 | 19°57 | 22°17 | 3° 2 | 7°16 | 26°33 | 11°36 | 9°57 | 8°58 | 17°40 | 22°13 | S 22 | |
| M 23 | 8 11 25 | 3°11'39 | 25° 6 | 11°42 | 18°56 | 20°31 | 22°24 | 3° 1 | 7°18 | 26°32 | 11°37 | 9°53 | 8°55 | 17°47 | 22°12 | M 23 | |
| T 24 | 8 15 22 | 4°12'45 | 7°V 5 | 12° 1 | 20° 5 | 21° 5 | 22°32 | 3° 0 | 7°21 | 26°30 | 11°37 | 9°50 | 8°52 | 17°53 | 22°12 | T 24 | |
| W 25 | 8 19 18 | 5°13'50 | 18°58 | 12°28 | 21°14 | 21°39 | 22°40 | 2°59 | 7°23 | 26°28 | 11°38 | 9°47 | 8°49 | 18° 0 | 22°12 | W 25 | |
| T 26 | 8 23 15 | 6°14'55 | 0♌50 | 13° 0 | 22°24 | 22°12 | 22°47 | 2°57 | 7°26 | 26°27 | 11°39 | 9°D46 | 8°45 | 18° 7 | 22°11 | T 26 | |
| F 27 | 8 27 11 | 7°15'59 | 12°45 | 13°38 | 23°33 | 22°46 | 22°55 | 2°56 | 7°28 | 26°25 | 11°39 | 9°46 | 8°42 | 18°14 | 22°11 | F 27 | |
| S 28 | 8 31 8 | 8°17'02 | 24°48 | 14°21 | 24°43 | 23°19 | 23° 4 | 2°54 | 7°30 | 26°23 | 11°40 | 9°47 | 8°39 | 18°20 | 22°11 | S 28 | |
| S 29 | 8 35 4 | 9°18'05 | 7♋4 | 15° 9 | 25°53 | 23°53 | 23°12 | 2°52 | 7°33 | 26°22 | 11°41 | 9°49 | 8°36 | 18°27 | 22°11 | S 29 | |
| M 30 | 8 39 1 | 10°19'07 | 19°37 | 16° 0 | 27° 3 | 24°26 | 23°21 | 2°50 | 7°35 | 26°20 | 11°42 | 9°51 | 8°33 | 18°34 | 22°11 | M 30 | |
| T 31 | 8 42 57 | 11°20'08 | 2♌31 | 16°55 | 28°13 | 24°59 | 23°V29 | 2°48 | 7°37 | 26°18 | 11°V43 | 9°52 | 8°29 | 18°V41 | 22°D10 | T 31 | |

Delta T = 18m14s

FEBRUARY 2569

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|--------|-------|--------|-------|------|--------|--------|-------|------|--------|--------|------|-----|
| W 1 | 8 46 54 | 12°21'08 | 15♌48 | 17♌53 | 29°R23 | 25♍32 | 23°V38 | 2°R46 | 7♌39 | 26°R17 | 11°V43 | 9°R52 | 8♌26 | 18°V47 | 22°R11 | W 1 | |
| T 2 | 8 50 51 | 13°22'07 | 29°29 | 18°54 | 0♌34 | 26° 5 | 23°47 | 2°44 | 7°41 | 26°15 | 11°44 | 9°50 | 8°23 | 18°54 | 22°11 | T 2 | |
| F 3 | 8 54 47 | 14°23'05 | 13♌31 | 19°58 | 1°44 | 26°38 | 23°56 | 2°42 | 7°43 | 26°13 | 11°45 | 9°47 | 8°20 | 19° 1 | 22°11 | F 3 | |
| S 4 | 8 58 44 | 15°24'02 | 27°52 | 21° 4 | 2°55 | 27°11 | 24° 5 | 2°39 | 7°45 | 26°12 | 11°46 | 9°43 | 8°17 | 19° 7 | 22°11 | S 4 | |
| S 5 | 9 2 40 | 16°24'59 | 12♍26 | 22°13 | 4° 5 | 27°44 | 24°14 | 2°37 | 7°47 | 26°10 | 11°47 | 9°37 | 8°14 | 19°14 | 22°11 | S 5 | |
| M 6 | 9 6 37 | 17°25'55 | 27° 4 | 23°24 | 5°16 | 28°17 | 24°24 | 2°34 | 7°49 | 26° 9 | 11°48 | 9°31 | 8°10 | 19°21 | 22°12 | M 6 | |
| T 7 | 9 10 33 | 18°26'50 | 11♌41 | 24°36 | 6°27 | 28°49 | 24°33 | 2°32 | 7°51 | 26° 7 | 11°49 | 9°26 | 8° 7 | 19°28 | 22°12 | T 7 | |
| W 8 | 9 14 30 | 19°27'45 | 26°11 | 25°50 | 7°38 | 29°22 | 24°43 | 2°29 | 7°52 | 26° 6 | 11°50 | 9°22 | 8° 4 | 19°34 | 22°13 | W 8 | |
| T 9 | 9 18 26 | 20°28'39 | 10♍28 | 27° 6 | 8°49 | 29°54 | 24°53 | 2°26 | 7°54 | 26° 4 | 11°51 | 9°19 | 8° 1 | 19°41 | 22°13 | T 9 | |
| F 10 | 9 22 23 | 21°29'32 | 24°31 | 28°23 | 10° 0 | 0♌27 | 25° 3 | 2°23 | 7°56 | 26° 3 | 11°52 | 9°D19 | 7°58 | 19°48 | 22°14 | F 10 | |
| S 11 | 9 26 20 | 22°30'25 | 8♌19 | 29°42 | 11°11 | 0°59 | 25°13 | 2°20 | 7°57 | 26° 1 | 11°53 | 9°20 | 7°54 | 19°54 | 22°14 | S 11 | |
| S 12 | 9 30 16 | 23°31'17 | 21°52 | 1♌2 | 12°22 | 1°31 | 25°23 | 2°17 | 7°59 | 26° 0 | 11°54 | 9°21 | 7°51 | 20° 1 | 22°15 | S 12 | |
| M 13 | 9 34 13 | 24°32'08 | 5♌12 | 2°23 | 13°34 | 2° 3 | 25°33 | 2°14 | 8° 1 | 25°58 | 11°55 | 9°R22 | 7°48 | 20° 8 | 22°16 | M 13 | |
| T 14 | 9 38 9 | 25°32'58 | 18°18 | 3°45 | 14°45 | 2°35 | 25°44 | 2°10 | 8° 2 | 25°57 | 11°56 | 9°22 | 7°45 | 20°15 | 22°17 | T 14 | |
| W 15 | 9 42 6 | 26°33'48 | 1♌14 | 5° 9 | 15°57 | 3° 6 | 25°54 | 2° 7 | 8° 3 | 25°55 | 11°57 | 9°20 | 7°42 | 20°21 | 22°18 | W 15 | |
| T 16 | 9 46 2 | 27°34'36 | 13°58 | 6°33 | 17° 8 | 3°38 | 26° 5 | 2° 4 | 8° 5 | 25°54 | 11°58 | 9°15 | 7°39 | 20°28 | 22°18 | T 16 | |
| F 17 | 9 49 59 | 28°35'23 | 26°31 | 7°59 | 18°20 | 4° 9 | 26°16 | 2° 0 | 8° 6 | 25°53 | 11°59 | 9° 8 | 7°35 | 20°35 | 22°20 | F 17 | |
| S 18 | 9 53 55 | 29°36'09 | 8♌54 | 9°25 | 19°32 | 4°41 | 26°27 | 1°56 | 8° 7 | 25°51 | 12° 1 | 8°59 | 7°32 | 20°42 | 22°21 | S 18 | |
| S 19 | 9 57 52 | 0♌36'54 | 21° 8 | 10°53 | 20°43 | 5°12 | 26°38 | 1°53 | 8° 9 | 25°50 | 12° 2 | 8°48 | 7°29 | 20°48 | 22°22 | S 19 | |
| M 20 | 10 1 49 | 1°37'37 | 3°V12 | 12°21 | 21°55 | 5°43 | 26°49 | 1°49 | 8°10 | 25°49 | 12° 3 | 8°38 | 7°26 | 20°55 | 22°23 | M 20 | |
| T 21 | 10 5 45 | 2°38'18 | 15° 9 | 13°50 | 23° 7 | 6°14 | 27° 0 | 1°45 | 8°11 | 25°47 | 12° 4 | 8°28 | 7°23 | 21° 2 | 22°24 | T 21 | |
| W 22 | 10 9 42 | 3°38'59 | 27° 1 | 15°21 | 24°19 | 6°45 | 27°11 | 1°41 | 8°12 | 25°46 | 12° 5 | 8°20 | 7°20 | 21° 8 | 22°26 | W 22 | |
| T 23 | 10 13 38 | 4°39'37 | 8♌51 | 16°52 | 25°31 | 7°16 | 27°23 | 1°37 | 8°13 | 25°45 | 12° 7 | 8°14 | 7°16 | 21°15 | 22°27 | T 23 | |
| F 24 | 10 17 35 | 5°40'14 | 20°44 | 18°24 | 26°43 | 7°46 | 27°34 | 1°33 | 8°14 | 25°43 | 12° 8 | 8°10 | 7°13 | 21°22 | 22°28 | F 24 | |
| S 25 | 10 21 31 | 6°40'50 | 2♋44 | 19°57 | 27°55 | 8°17 | 27°46 | 1°29 | 8°15 | 25°42 | 12° 9 | 8°D 9 | 7°10 | 21°29 | 22°30 | S 25 | |
| S 26 | 10 25 28 | 7°41'23 | 14°55 | 21°31 | 29° 7 | 8°47 | 27°57 | 1°25 | 8°16 | 25°41 | 12°10 | 8° 9 | 7° 7 | 21°35 | 22°31 | S 26 | |
| M 27 | 10 29 24 | 8°41'55 | 27°24 | 23° 6 | 0♌19 | 9°17 | 28° 9 | 1°21 | 8°16 | 25°40 | 12°12 | 8°10 | 7° 4 | 21°42 | 22°33 | M 27 | |
| T 28 | 10 33 21 | 9°42'26 | 10♌15 | 24°41 | 1♌31 | 9°47 | 28°V21 | 1°17 | 8°17 | 25°39 | 12°V13 | 8°R10 | 7♌0 | 21°V49 | 22°R35 | T 28 | |

Delta T = 18m15s

ASTRODIENST EPHEMERIS for the year 2569
geocentric

MARCH 2569

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|------|
| W 1 | 10 37 18 | 10 ^h 42'54 | 23 ^h 32 | 26 ^h 18 | 2 ^h 44 | 10 ^h 17 | 28 ^h 33 | 1 ^h R13 | 8 ^h 18 | 25 ^h R38 | 12 ^h 14 | 8 ^h R 9 | 6 ^h 57 | 21 ^h 55 | 22 ^h 36 | W 1 |
| T 2 | 10 41 14 | 11 ^h 43'21 | 7 ^h 18 | 27 ^h 55 | 3 ^h 56 | 10 ^h 47 | 28 ^h 45 | 1 ^h 8 | 8 ^h 18 | 25 ^h 37 | 12 ^h 15 | 8 ^h R 6 | 6 ^h 54 | 22 ^h 2 | 22 ^h 38 | T 2 |
| F 3 | 10 45 11 | 12 ^h 43'46 | 21 ^h 32 | 29 ^h 34 | 5 ^h 8 | 11 ^h 16 | 28 ^h 57 | 1 ^h 4 | 8 ^h 19 | 25 ^h 36 | 12 ^h 17 | 8 ^h 0 | 6 ^h 51 | 22 ^h 9 | 22 ^h 40 | F 3 |
| S 4 | 10 49 7 | 13 ^h 44'09 | 6 ^h 10 | 1 ^h X13 | 6 ^h 21 | 11 ^h 46 | 29 ^h 9 | 0 ^h 59 | 8 ^h 19 | 25 ^h 35 | 12 ^h 18 | 7 ^h 51 | 6 ^h 48 | 22 ^h 16 | 22 ^h 42 | S 4 |
| S 5 | 10 53 4 | 14 ^h 44'30 | 21 ^h 6 | 2 ^h 54 | 7 ^h 33 | 12 ^h 15 | 29 ^h 21 | 0 ^h 55 | 8 ^h 20 | 25 ^h 34 | 12 ^h 19 | 7 ^h 41 | 6 ^h 45 | 22 ^h 22 | 22 ^h 44 | S 5 |
| M 6 | 10 57 0 | 15 ^h 44'50 | 6 ^h 11 | 4 ^h 35 | 8 ^h 46 | 12 ^h 44 | 29 ^h 34 | 0 ^h 50 | 8 ^h 20 | 25 ^h 33 | 12 ^h 21 | 7 ^h 31 | 6 ^h 41 | 22 ^h 29 | 22 ^h 46 | M 6 |
| T 7 | 11 0 57 | 16 ^h 45'08 | 21 ^h 15 | 6 ^h 17 | 9 ^h 58 | 13 ^h 13 | 29 ^h 46 | 0 ^h 46 | 8 ^h 21 | 25 ^h 32 | 12 ^h 22 | 7 ^h 21 | 6 ^h 38 | 22 ^h 36 | 22 ^h 48 | T 7 |
| W 8 | 11 4 53 | 17 ^h 45'25 | 6 ^h 18 | 8 ^h 1 | 11 ^h 11 | 13 ^h 41 | 29 ^h 59 | 0 ^h 41 | 8 ^h 21 | 25 ^h 31 | 12 ^h 23 | 7 ^h 13 | 6 ^h 35 | 22 ^h 42 | 22 ^h 50 | W 8 |
| T 9 | 11 8 50 | 18 ^h 45'41 | 20 ^h 43 | 9 ^h 45 | 12 ^h 23 | 14 ^h 10 | 0 ^h 811 | 0 ^h 37 | 8 ^h 21 | 25 ^h 30 | 12 ^h 25 | 7 ^h 8 | 6 ^h 32 | 22 ^h 49 | 22 ^h 52 | T 9 |
| F 10 | 11 12 47 | 19 ^h 45'55 | 4 ^h X56 | 11 ^h 30 | 13 ^h 36 | 14 ^h 38 | 0 ^h 24 | 0 ^h 32 | 8 ^h 21 | 25 ^h 29 | 12 ^h 26 | 7 ^h 5 | 6 ^h 29 | 22 ^h 56 | 22 ^h 54 | F 10 |
| S 11 | 11 16 43 | 20 ^h 46'08 | 18 ^h 45 | 13 ^h 17 | 14 ^h 48 | 15 ^h 6 | 0 ^h 37 | 0 ^h 27 | 8 ^h 22 | 25 ^h 28 | 12 ^h 28 | 7 ^h D 4 | 6 ^h 26 | 23 ^h 3 | 22 ^h 56 | S 11 |
| S 12 | 11 20 40 | 21 ^h 46'19 | 2 ^h 313 | 15 ^h 4 | 16 ^h 1 | 15 ^h 34 | 0 ^h 49 | 0 ^h 23 | 8 ^h 22 | 25 ^h 27 | 12 ^h 29 | 7 ^h R 4 | 6 ^h 22 | 23 ^h 9 | 22 ^h 59 | S 12 |
| M13 | 11 24 36 | 22 ^h 46'29 | 15 ^h 21 | 16 ^h 53 | 17 ^h 14 | 16 ^h 2 | 1 ^h 2 | 0 ^h 18 | 8 ^h R22 | 25 ^h 27 | 12 ^h 30 | 7 ^h 4 | 6 ^h 19 | 23 ^h 16 | 23 ^h 1 | M13 |
| T 14 | 11 28 33 | 23 ^h 46'37 | 28 ^h 13 | 18 ^h 42 | 18 ^h 27 | 16 ^h 30 | 1 ^h 15 | 0 ^h 13 | 8 ^h 22 | 25 ^h 26 | 12 ^h 32 | 7 ^h 3 | 6 ^h 16 | 23 ^h 23 | 23 ^h 3 | T 14 |
| W15 | 11 32 29 | 24 ^h 46'44 | 10 ^h 51 | 20 ^h 33 | 19 ^h 39 | 16 ^h 57 | 1 ^h 28 | 0 ^h 9 | 8 ^h 22 | 25 ^h 25 | 12 ^h 33 | 6 ^h 58 | 6 ^h 13 | 23 ^h 29 | 23 ^h 6 | W15 |
| T 16 | 11 36 26 | 25 ^h 46'48 | 23 ^h 17 | 22 ^h 25 | 20 ^h 52 | 17 ^h 24 | 1 ^h 41 | 0 ^h 4 | 8 ^h 21 | 25 ^h 24 | 12 ^h 35 | 6 ^h 51 | 6 ^h 10 | 23 ^h 36 | 23 ^h 8 | T 16 |
| F 17 | 11 40 22 | 26 ^h 46'52 | 5 ^h X35 | 24 ^h 18 | 22 ^h 5 | 17 ^h 51 | 1 ^h 54 | 29 ^h 159 | 8 ^h 21 | 25 ^h 24 | 12 ^h 36 | 6 ^h 41 | 6 ^h 6 | 23 ^h 43 | 23 ^h 11 | F 17 |
| S 18 | 11 44 19 | 27 ^h 46'53 | 17 ^h 45 | 26 ^h 11 | 23 ^h 18 | 18 ^h 18 | 2 ^h 8 | 29 ^h 54 | 8 ^h 21 | 25 ^h 23 | 12 ^h 38 | 6 ^h 28 | 6 ^h 3 | 23 ^h 50 | 23 ^h 13 | S 18 |
| S 19 | 11 48 16 | 28 ^h 46'53 | 29 ^h 49 | 28 ^h 6 | 24 ^h 31 | 18 ^h 44 | 2 ^h 21 | 29 ^h 49 | 8 ^h 21 | 25 ^h 23 | 12 ^h 39 | 6 ^h 14 | 6 ^h 0 | 23 ^h 56 | 23 ^h 16 | S 19 |
| M20 | 11 52 12 | 29 ^h 46'51 | 11 ^h 47 | 0 ^h Y 2 | 25 ^h 44 | 19 ^h 10 | 2 ^h 34 | 29 ^h 45 | 8 ^h 20 | 25 ^h 22 | 12 ^h 40 | 5 ^h 59 | 5 ^h 57 | 24 ^h 3 | 23 ^h 19 | M20 |
| T 21 | 11 56 9 | 0 ^h Y46'46 | 23 ^h 40 | 1 ^h 59 | 26 ^h 57 | 19 ^h 36 | 2 ^h 47 | 29 ^h 40 | 8 ^h 20 | 25 ^h 22 | 12 ^h 42 | 5 ^h 45 | 5 ^h 44 | 24 ^h 10 | 23 ^h 21 | T 21 |
| W22 | 12 0 5 | 1 ^h 46'40 | 5 ^h X31 | 3 ^h 56 | 28 ^h 10 | 20 ^h 2 | 3 ^h 1 | 29 ^h 35 | 8 ^h 19 | 25 ^h 21 | 12 ^h 43 | 5 ^h 33 | 5 ^h 31 | 24 ^h 16 | 23 ^h 24 | W22 |
| T 23 | 12 4 2 | 2 ^h 46'32 | 17 ^h 21 | 5 ^h 54 | 29 ^h 22 | 20 ^h 27 | 3 ^h 14 | 29 ^h 30 | 8 ^h 19 | 25 ^h 21 | 12 ^h 45 | 5 ^h 24 | 5 ^h 47 | 24 ^h 23 | 23 ^h 27 | T 23 |
| F 24 | 12 7 58 | 3 ^h 46'22 | 29 ^h 13 | 7 ^h 53 | 0 ^h X35 | 20 ^h 53 | 3 ^h 28 | 29 ^h 26 | 8 ^h 18 | 25 ^h 20 | 12 ^h 46 | 5 ^h 17 | 5 ^h 44 | 24 ^h 30 | 23 ^h 30 | F 24 |
| S 25 | 12 11 55 | 4 ^h 46'10 | 11 ^h 12 | 9 ^h 52 | 1 ^h 48 | 21 ^h 18 | 3 ^h 41 | 29 ^h 21 | 8 ^h 18 | 25 ^h 20 | 12 ^h 48 | 5 ^h 14 | 5 ^h 41 | 24 ^h 37 | 23 ^h 33 | S 25 |
| S 26 | 12 15 51 | 5 ^h 45'55 | 23 ^h 21 | 11 ^h 52 | 3 ^h 1 | 21 ^h 42 | 3 ^h 55 | 29 ^h 16 | 8 ^h 17 | 25 ^h 19 | 12 ^h 49 | 5 ^h 12 | 5 ^h 38 | 24 ^h 43 | 23 ^h 36 | S 26 |
| M27 | 12 19 48 | 6 ^h 45'38 | 5 ^h 56 | 13 ^h 51 | 4 ^h 14 | 22 ^h 7 | 4 ^h 9 | 29 ^h 11 | 8 ^h 16 | 25 ^h 19 | 12 ^h 51 | 5 ^h 12 | 5 ^h 35 | 24 ^h 50 | 23 ^h 39 | M27 |
| T 28 | 12 23 44 | 7 ^h 45'19 | 18 ^h 31 | 15 ^h 51 | 5 ^h 28 | 22 ^h 31 | 4 ^h 22 | 29 ^h 7 | 8 ^h 16 | 25 ^h 19 | 12 ^h 52 | 5 ^h 12 | 5 ^h 31 | 24 ^h 57 | 23 ^h 42 | T 28 |
| W29 | 12 27 41 | 8 ^h 44'58 | 1 ^h 42 | 17 ^h 50 | 6 ^h 41 | 22 ^h 55 | 4 ^h 36 | 29 ^h 2 | 8 ^h 15 | 25 ^h 19 | 12 ^h 54 | 5 ^h 11 | 5 ^h 28 | 25 ^h 3 | 23 ^h 45 | W29 |
| T 30 | 12 31 38 | 9 ^h 44'35 | 15 ^h 22 | 19 ^h 48 | 7 ^h 54 | 23 ^h 18 | 4 ^h 50 | 28 ^h 57 | 8 ^h 14 | 25 ^h 18 | 12 ^h 55 | 5 ^h 7 | 5 ^h 25 | 25 ^h 10 | 23 ^h 48 | T 30 |
| F 31 | 12 35 34 | 10 ^h Y44'09 | 29 ^h 32 | 21 ^h Y45 | 9 ^h X 7 | 23 ^h X41 | 5 ^h X 4 | 28 ^h 153 | 8 ^h X13 | 25 ^h 18 | 12 ^h Y57 | 5 ^h X 1 | 5 ^h X22 | 25 ^h Y17 | 23 ^h X51 | F 31 |

Delta T = 18m15s

APRIL 2569

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|------|
| S 1 | 12 39 31 | 11 ^h Y43'41 | 14 ^h 11 | 23 ^h Y41 | 10 ^h X20 | 24 ^h X 4 | 5 ^h X17 | 28 ^h R48 | 8 ^h R12 | 25 ^h R18 | 12 ^h Y58 | 4 ^h R52 | 5 ^h X19 | 25 ^h Y24 | 23 ^h X54 | S 1 |
| S 2 | 12 43 27 | 12 ^h 43'11 | 29 ^h 14 | 25 ^h 35 | 11 ^h 33 | 24 ^h 27 | 5 ^h 31 | 28 ^h 143 | 8 ^h X11 | 25 ^h 18 | 13 ^h 0 | 4 ^h X2 | 5 ^h 16 | 25 ^h 30 | 23 ^h 57 | S 2 |
| M 3 | 12 47 24 | 13 ^h 42'38 | 14 ^h 13 | 27 ^h 27 | 12 ^h 46 | 24 ^h 49 | 5 ^h 45 | 28 ^h 39 | 8 ^h 10 | 25 ^h 18 | 13 ^h 1 | 4 ^h 31 | 5 ^h 12 | 25 ^h 37 | 24 ^h 0 | M 3 |
| T 4 | 12 51 20 | 14 ^h 42'04 | 29 ^h 50 | 29 ^h 16 | 13 ^h 59 | 25 ^h 11 | 5 ^h 59 | 28 ^h 34 | 8 ^h 9 | 25 ^h 18 | 13 ^h 3 | 4 ^h 20 | 5 ^h 9 | 25 ^h 44 | 24 ^h 4 | T 4 |
| W 5 | 12 55 17 | 15 ^h 41'28 | 15 ^h 11 | 1 ^h X 2 | 15 ^h 12 | 25 ^h 33 | 6 ^h 13 | 28 ^h 30 | 8 ^h 8 | 25 ^h D18 | 13 ^h 4 | 4 ^h 11 | 5 ^h 6 | 25 ^h 50 | 24 ^h 7 | W 5 |
| T 6 | 12 59 13 | 16 ^h 40'50 | 29 ^h 54 | 2 ^h 45 | 16 ^h 25 | 25 ^h 54 | 6 ^h 27 | 28 ^h 26 | 8 ^h 6 | 25 ^h 18 | 13 ^h 6 | 4 ^h 5 | 5 ^h 3 | 25 ^h 57 | 24 ^h 10 | T 6 |
| F 7 | 13 3 10 | 17 ^h 40'10 | 14 ^h X22 | 4 ^h 24 | 17 ^h 39 | 26 ^h 15 | 6 ^h 41 | 28 ^h 21 | 8 ^h 5 | 25 ^h 18 | 13 ^h 7 | 4 ^h 2 | 5 ^h 0 | 26 ^h 4 | 24 ^h 14 | F 7 |
| S 8 | 13 7 7 | 18 ^h 39'29 | 28 ^h 23 | 5 ^h 58 | 18 ^h 52 | 26 ^h 36 | 6 ^h 55 | 28 ^h 17 | 8 ^h 4 | 25 ^h 18 | 13 ^h 9 | 4 ^h D 0 | 4 ^h 57 | 26 ^h 11 | 24 ^h 17 | S 8 |
| S 9 | 13 11 3 | 19 ^h 38'46 | 11 ^h X57 | 7 ^h 28 | 20 ^h 5 | 26 ^h 56 | 7 ^h 9 | 28 ^h 13 | 8 ^h 2 | 25 ^h 18 | 13 ^h 10 | 4 ^h 0 | 4 ^h 53 | 26 ^h 17 | 24 ^h 20 | S 9 |
| M10 | 13 15 0 | 20 ^h 38'01 | 25 ^h 6 | 8 ^h 53 | 21 ^h 18 | 27 ^h 16 | 7 ^h 24 | 28 ^h 8 | 8 ^h 1 | 25 ^h 18 | 13 ^h 12 | 4 ^h R 0 | 4 ^h 50 | 26 ^h 24 | 24 ^h 24 | M10 |
| T 11 | 13 18 56 | 21 ^h 37'15 | 7 ^h X54 | 10 ^h 12 | 22 ^h 32 | 27 ^h 36 | 7 ^h 38 | 28 ^h 4 | 8 ^h 0 | 25 ^h 18 | 13 ^h 13 | 3 ^h 59 | 4 ^h 47 | 26 ^h 31 | 24 ^h 27 | T 11 |
| W12 | 13 22 53 | 22 ^h 36'26 | 20 ^h 25 | 11 ^h 26 | 23 ^h 45 | 27 ^h 55 | 7 ^h 52 | 28 ^h 0 | 7 ^h 58 | 25 ^h 18 | 13 ^h 15 | 3 ^h 56 | 4 ^h 44 | 26 ^h 37 | 24 ^h 31 | W12 |
| T 13 | 13 26 49 | 23 ^h 35'36 | 2 ^h X42 | 12 ^h 34 | 24 ^h 58 | 28 ^h 14 | 8 ^h 6 | 27 ^h 56 | 7 ^h 57 | 25 ^h 19 | 13 ^h 16 | 3 ^h 50 | 4 ^h 41 | 26 ^h 44 | 24 ^h 34 | T 13 |
| F 14 | 13 30 46 | 24 ^h 34'44 | 14 ^h 50 | 13 ^h 36 | 26 ^h 11 | 28 ^h 32 | 8 ^h 20 | 27 ^h 52 | 7 ^h 55 | 25 ^h 19 | 13 ^h 17 | 3 ^h 42 | 4 ^h 37 | 26 ^h 51 | 24 ^h 38 | F 14 |
| S 15 | 13 34 42 | 25 ^h 33'50 | 26 ^h 50 | 14 ^h 32 | 27 ^h 25 | 28 ^h 50 | 8 ^h 35 | 27 ^h 48 | 7 ^h 53 | 25 ^h 19 | 13 ^h 19 | 3 ^h 31 | 4 ^h 34 | 26 ^h 58 | 24 ^h 41 | |

ASTRODIENST EPHEMERIS for the year 2569
geocentric

MAY 2569

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|--------|-------|-------|--------|-------|------|--------|-------|------|-----|
| M 1 | 14 37 47 | 11♁14'49 | 22♁44 | 15°R16 | 16°V57 | 2♁29 | 12♁25 | 26°R54 | 7°R23 | 25♁29 | 13°V41 | 2°R 1 | 3♁43 | 28°V45 | 25♁42 | M 1 | |
| T 2 | 14 41 44 | 12°13'20 | 8♁ 1 | 14♁38 | 18°11 | 2°38 | 12°39 | 26♁52 | 7♁21 | 25°30 | 13°43 | 1♁54 | 3°40 | 28°52 | 25°46 | T 2 | |
| W 3 | 14 45 40 | 13°11'48 | 23°15 | 13°58 | 19°24 | 2°47 | 12°54 | 26°49 | 7°19 | 25°31 | 13°44 | 1°48 | 3°37 | 28°58 | 25°49 | W 3 | |
| T 4 | 14 49 37 | 14°10'15 | 8♁15 | 13°17 | 20°37 | 2°55 | 13° 8 | 26°47 | 7°16 | 25°32 | 13°45 | 1°44 | 3°34 | 29° 5 | 25°53 | T 4 | |
| F 5 | 14 53 34 | 15° 8'41 | 22°54 | 12°37 | 21°51 | 3° 2 | 13°22 | 26°44 | 7°14 | 25°33 | 13°47 | 1°42 | 3°31 | 29°12 | 25°57 | F 5 | |
| S 6 | 14 57 30 | 16° 7'04 | 7♁ 6 | 11°57 | 23° 4 | 3° 8 | 13°37 | 26°42 | 7°12 | 25°34 | 13°48 | 1°D42 | 3°28 | 29°19 | 26° 1 | S 6 | |
| S 7 | 15 1 27 | 17° 5'26 | 20°49 | 11°18 | 24°17 | 3°14 | 13°51 | 26°40 | 7° 9 | 25°35 | 13°49 | 1°43 | 3°24 | 29°25 | 26° 5 | S 7 | |
| M 8 | 15 5 23 | 18° 3'47 | 4♁ 6 | 10°41 | 25°31 | 3°19 | 14° 6 | 26°38 | 7° 7 | 25°36 | 13°51 | 1°44 | 3°21 | 29°32 | 26° 9 | M 8 | |
| T 9 | 15 9 20 | 19° 2'06 | 16°58 | 10° 7 | 26°44 | 3°24 | 14°20 | 26°36 | 7° 5 | 25°37 | 13°52 | 1°R45 | 3°18 | 29°39 | 26°13 | T 9 | |
| W10 | 15 13 16 | 20° 0'23 | 29°30 | 9°35 | 27°57 | 3°28 | 14°34 | 26°34 | 7° 2 | 25°38 | 13°53 | 1°44 | 3°15 | 29°45 | 26°17 | W10 | |
| T 11 | 15 17 13 | 20°58'39 | 11♁46 | 9° 8 | 29°11 | 3°31 | 14°49 | 26°32 | 7° 0 | 25°39 | 13°54 | 1°42 | 3°12 | 29°52 | 26°21 | T 11 | |
| F 12 | 15 21 9 | 21°56'53 | 23°50 | 8°44 | 0♁24 | 3°33 | 15° 3 | 26°30 | 6°58 | 25°40 | 13°56 | 1°38 | 3° 9 | 29°59 | 26°25 | F 12 | |
| S 13 | 15 25 6 | 22°55'06 | 5°V47 | 8°24 | 1°37 | 3°35 | 15°18 | 26°29 | 6°55 | 25°41 | 13°57 | 1°33 | 3° 5 | 0♁ 5 | 26°29 | S 13 | |
| S 14 | 15 29 3 | 23°53'18 | 17°39 | 8° 9 | 2°51 | 3°36 | 15°32 | 26°27 | 6°53 | 25°43 | 13°58 | 1°26 | 3° 2 | 0°12 | 26°33 | S 14 | |
| M15 | 15 32 59 | 24°51'28 | 29°29 | 7°58 | 4° 4 | 3°R36 | 15°46 | 26°26 | 6°50 | 25°44 | 13°59 | 1°19 | 2°59 | 0°19 | 26°37 | M15 | |
| T 16 | 15 36 56 | 25°49'36 | 11♁21 | 7°52 | 5°17 | 3°36 | 16° 0 | 26°24 | 6°48 | 25°45 | 14° 0 | 1°13 | 2°56 | 0°26 | 26°41 | T 16 | |
| W17 | 15 40 52 | 26°47'43 | 23°15 | 7°D51 | 6°31 | 3°35 | 16°15 | 26°23 | 6°46 | 25°46 | 14° 2 | 1° 7 | 2°53 | 0°32 | 26°45 | W17 | |
| T 18 | 15 44 49 | 27°45'48 | 5♁14 | 7°54 | 7°44 | 3°33 | 16°29 | 26°22 | 6°43 | 25°48 | 14° 3 | 1° 3 | 2°49 | 0°39 | 26°49 | T 18 | |
| F 19 | 15 48 45 | 28°43'52 | 17°19 | 8° 2 | 8°57 | 3°30 | 16°43 | 26°21 | 6°41 | 25°49 | 14° 4 | 1° 0 | 2°46 | 0°46 | 26°53 | F 19 | |
| S 20 | 15 52 42 | 29°41'54 | 29°32 | 8°15 | 10°11 | 3°26 | 16°58 | 26°20 | 6°38 | 25°50 | 14° 5 | 0°D59 | 2°43 | 0°52 | 26°57 | S 20 | |
| S 21 | 15 56 38 | 0♁39'54 | 11♁56 | 8°32 | 11°24 | 3°22 | 17°12 | 26°19 | 6°36 | 25°52 | 14° 6 | 1° 0 | 2°40 | 0°59 | 27° 1 | S 21 | |
| M22 | 16 0 35 | 1°37'53 | 24°32 | 8°54 | 12°38 | 3°17 | 17°26 | 26°19 | 6°33 | 25°53 | 14° 7 | 1° 1 | 2°37 | 1° 6 | 27° 5 | M22 | |
| T 23 | 16 4 32 | 2°35'49 | 7♁24 | 9°20 | 13°51 | 3°11 | 17°40 | 26°18 | 6°31 | 25°55 | 14° 8 | 1° 3 | 2°34 | 1°13 | 27° 9 | T 23 | |
| W24 | 16 8 28 | 3°33'44 | 20°34 | 9°50 | 15° 4 | 3° 5 | 17°54 | 26°18 | 6°28 | 25°56 | 14° 9 | 1° 4 | 2°30 | 1°19 | 27°13 | W24 | |
| T 25 | 16 12 25 | 4°31'38 | 4♁ 4 | 10°24 | 16°18 | 2°57 | 18° 8 | 26°17 | 6°26 | 25°58 | 14°10 | 1°R 5 | 2°27 | 1°26 | 27°17 | T 25 | |
| F 26 | 16 16 21 | 5°29'29 | 17°56 | 11° 2 | 17°31 | 2°49 | 18°22 | 26°17 | 6°23 | 25°59 | 14°11 | 1° 4 | 2°24 | 1°33 | 27°21 | F 26 | |
| S 27 | 16 20 18 | 6°27'19 | 2♁11 | 11°44 | 18°44 | 2°40 | 18°36 | 26°17 | 6°21 | 26° 1 | 14°12 | 1° 3 | 2°21 | 1°39 | 27°25 | S 27 | |
| S 28 | 16 24 14 | 7°25'07 | 16°45 | 12°29 | 19°58 | 2°31 | 18°50 | 26°D17 | 6°18 | 26° 3 | 14°13 | 1° 0 | 2°18 | 1°46 | 27°29 | S 28 | |
| M29 | 16 28 11 | 8°22'53 | 1♁35 | 13°18 | 21°11 | 2°21 | 19° 4 | 26°17 | 6°16 | 26° 4 | 14°14 | 0°57 | 2°14 | 1°53 | 27°33 | M29 | |
| T 30 | 16 32 7 | 9°20'38 | 16°34 | 14°11 | 22°24 | 2°10 | 19°18 | 26°17 | 6°13 | 26° 6 | 14°15 | 0°54 | 2°11 | 1°59 | 27°37 | T 30 | |
| W31 | 16 36 4 | 10♁18'21 | 1♁34 | 15♁ 7 | 23♁38 | 1♁58 | 19♁32 | 26♁17 | 6♁11 | 26♁ 7 | 14°V16 | 0♁52 | 2♁ 8 | 2♁ 6 | 27♁41 | W31 | |

Delta T = 18m15s

JUNE 2569

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| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|------|-------|------|-----|
| T 1 | 16 40 1 | 11♁16'03 | 16♁25 | 16♁ 6 | 24♁51 | 1°R46 | 19♁46 | 26♁17 | 6°R 8 | 26♁ 9 | 14°V17 | 0°R51 | 2♁ 5 | 2♁13 | 27♁45 | T 1 | |
| F 2 | 16 43 57 | 12°13'44 | 1♁ 0 | 17° 8 | 26° 4 | 1♁33 | 20° 0 | 26°18 | 6♁ 6 | 26°11 | 14°18 | 0°D50 | 2° 2 | 2°20 | 27°49 | F 2 | |
| S 3 | 16 47 54 | 13°11'24 | 15°13 | 18°14 | 27°18 | 1°19 | 20°14 | 26°18 | 6° 3 | 26°12 | 14°19 | 0°R51 | 1°59 | 2°26 | 27°53 | S 3 | |
| S 4 | 16 51 50 | 14° 9'03 | 29° 2 | 19°22 | 28°31 | 1° 5 | 20°28 | 26°19 | 6° 1 | 26°14 | 14°20 | 0°52 | 1°55 | 2°33 | 27°57 | S 4 | |
| M 5 | 16 55 47 | 15° 6'40 | 12♁25 | 20°33 | 29°45 | 0°50 | 20°41 | 26°20 | 5°58 | 26°16 | 14°21 | 0°53 | 1°52 | 2°40 | 28° 0 | M 5 | |
| T 6 | 16 59 43 | 16° 4'17 | 25°23 | 21°47 | 0♁58 | 0°34 | 20°55 | 26°21 | 5°56 | 26°18 | 14°21 | 0°54 | 1°49 | 2°46 | 28° 4 | T 6 | |
| W 7 | 17 3 40 | 17° 1'53 | 7♁59 | 23° 4 | 2°11 | 0°18 | 21° 9 | 26°22 | 5°53 | 26°20 | 14°22 | 0°55 | 1°46 | 2°53 | 28° 8 | W 7 | |
| T 8 | 17 7 36 | 17°59'27 | 20°18 | 24°24 | 3°25 | 0° 2 | 21°22 | 26°23 | 5°51 | 26°21 | 14°23 | 0°R55 | 1°43 | 3° 0 | 28°12 | T 8 | |
| F 9 | 17 11 33 | 18°57'01 | 2°V24 | 25°46 | 4°38 | 29♁45 | 21°36 | 26°24 | 5°48 | 26°23 | 14°24 | 0°54 | 1°40 | 3° 7 | 28°16 | F 9 | |
| S 10 | 17 15 30 | 19°54'34 | 14°20 | 27°11 | 5°52 | 29°27 | 21°49 | 26°25 | 5°46 | 26°25 | 14°24 | 0°54 | 1°36 | 3°13 | 28°20 | S 10 | |
| S 11 | 17 19 26 | 20°52'07 | 26°12 | 28°39 | 7° 5 | 29° 9 | 22° 3 | 26°27 | 5°43 | 26°27 | 14°25 | 0°52 | 1°33 | 3°20 | 28°23 | S 11 | |
| M12 | 17 23 23 | 21°49'38 | 8♁ 2 | 0♁ 9 | 8°18 | 28°51 | 22°16 | 26°28 | 5°41 | 26°29 | 14°26 | 0°51 | 1°30 | 3°27 | 28°27 | M12 | |
| T 13 | 17 27 19 | 22°47'09 | 19°56 | 1°42 | 9°32 | 28°32 | 22°30 | 26°30 | 5°39 | 26°31 | 14°27 | 0°50 | 1°27 | 3°33 | 28°31 | T 13 | |
| W14 | 17 31 16 | 23°44'39 | 1♁55 | 3°18 | 10°45 | 28°13 | 22°43 | 26°31 | 5°36 | 26°33 | 14°27 | 0°49 | 1°24 | 3°40 | 28°35 | W14 | |
| T 15 | 17 35 12 | 24°42'08 | 14° 2 | 4°56 | 11°59 | 27°54 | 22°56 | 26°33 | 5°34 | 26°35 | 14°28 | 0°48 | 1°21 | 3°47 | 28°38 | T 15 | |
| F 16 | 17 39 9 | 25°39'36 | 26°20 | 6°37 | 13°12 | 27°34 | 23°10 | 26°35 | 5°32 | 26°37 | 14°28 | 0°D48 | 1°17 | 3°53 | 28°42 | F 16 | |
| S 17 | 17 43 5 | 26°37'04 | 8♁48 | 8°20 | 14°26 | 27°14 | 23°23 | 26°37 | 5°29 | 26°39 | 14°29 | 0°48 | 1°14 | 4° 0 | 28°46 | S 17 | |
| S 18 | 17 47 2 | 27°34'30 | 21°30 | 10° 6 | 15°39 | 26°54 | 23°36 | 26°39 | 5°27 | 26°41 | 14°30 | 0°48 | 1°11 | 4° 7 | 28°49 | S 18 | |
| M19 | 17 50 59 | 28°31'56 | 4♁24 | 11°54 | 16°53 | 26°34 | 23°49 | 26°41 | 5°25 | 26°43 | 14°30 | 0°49 | 1° 8 | 4°14 | 28°53 | M19 | |
| T 20 | 17 54 55 | 29°29'20 | 17°33 | 13°45 | 18° 6 | 26°14 | 24° 2 | 26°44 | 5°23 | 26°45 | 14°31 | 0°49 | 1° 5 | 4°20 | 28°57 | T 20 | |
| W21 | 17 58 52 | 0♁26'44 | 0♁56 | 15°39 | 19°19 | 25°54 | 24°15 | 26°46 | 5°20 | 26°47 | 14°31 | 0°R49 | 1° 1 | 4°27 | 29° 0 | W21 | |
| T 22 | 18 2 48 | 1°24'06 | 14°35 | 17°34 | 20°33 | 25°34 | 24°28 | 26°48 | 5°18 | 26°49 | 14°32 | 0°49 | 0°58 | 4°34 | 29° 4 | T 22 | |
| F 23 | 18 6 45 | 2°21'28 | 28°28 | 19°32 | 21°46 | 25°14 | 24°40 | 26°51 | 5°16 | 26°51 | 14°32 | 0°D49 | 0°55 | 4°40 | 29° 7 | F 23 | |
| S 24 | 18 10 41 | 3°18'48 | 12♁35 | 21°33 | 23° 0 | 24°54 | 24°53 | 26°54 | 5°14 | 26°53 | 14°33 | 0°49 | 0°52 | 4°47 | 29°11 | S 24 | |
| S 25 | 18 14 38 | 4°16'08 | 26°54 | 23°35 | 24°13 | 24°35 | 25° 6 | 26°56 | 5°12 | 26°55 | 14°33 | 0°49 | 0°49 | 4°54 | 29°14 | S 25 | |
| M26 | 18 18 34 | 5°13'27 | 11♁23 | 25°39 | 25°27 | 24°16 | 25°18 | 26°59 | 5°10 | 26°57 | 14°34 | 0°49 | 0°46 | 5° 0 | 29°18 | M26 | |
| T 27 | 18 22 31 | 6°10'45 | 25°57 | 27°45 | 26°40 | 23°57 | 25°31 | 27° 2 | 5° 8 | 26°59 | 14°34 | 0°50 | 0°42 | 5° 7 | 29°21 | T 27 | |
| W28 | 18 26 28 | 7° 8'02 | 10♁31 | 29°53 | 27°54 | 23°38 | 25°44 | 27° 5 | 5° 6 | 27° 1 | 14°34 | 0°50 | 0°39 | 5°14 | 29°25 | W28 | |
| T 29 | 18 30 24 | 8° 5'18 | 25° 0 | 2♁ 2 | 29° 7 | 23°20 | 25°56 | 27° 8 | 5° 4 | 27° 3 | 14°35 | 0°R51 | 0°36 | 5°21 | 29°28 | T 29 | |
| F 30 | 18 34 21 | 9° 2'34 | 9♁18 | 4♁11 | 0♁21 | 23♁ 2 | 26♁ 8 | 27♁11 | 5♁ 2 | 27♁ 5 | 14°V35 | 0♁50 | 0♁33 | 5♁27 | 29♁31 | F 30 | |

Delta T = 18m16s

ASTRODIENST EPHEMERIS for the year 2569
geocentric

JULY 2569

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------------------|---------------------|--------------------|-------------------|--------------------|--------------------|------------------|-------------------|------------------|--------------------|--------------------|--------------------|-------------------|--------------------|------|---|---|---|---|---|---|---|-----|
| S 1 | 18 38 17 | 9 ⁵⁹ 50'50 | 23 ²⁰ | 6 ²² | 1 ³⁴ | 22 ^R 44 | 26 ²¹ | 27 ¹⁵ | 5 ^R 0 | 27 ⁸ | 14 ³⁵ | 0 ^R 50 | 0 ³⁰ | 5 ³⁴ | 29 ³⁴ | S 1 | | | | | | | | |
| S 2 | 18 42 14 | 10 ⁵⁷ 05 | 7 ³ | 8 ³³ | 2 ⁴⁸ | 22 ^A 27 | 26 ³³ | 27 ¹⁸ | 4 ^A 58 | 27 ¹⁰ | 14 ³⁶ | 0 ³⁴ 49 | 0 ²⁷ | 5 ⁴¹ | 29 ³⁸ | S 2 | | | | | | | | |
| M 3 | 18 46 10 | 11 ⁵⁴ 20 | 20 ²⁴ | 10 ⁴⁵ | 4 ² | 22 ¹⁰ | 26 ⁴⁵ | 27 ²² | 4 ⁵⁶ | 27 ¹² | 14 ³⁶ | 0 ⁴⁸ | 0 ²³ | 5 ⁴⁷ | 29 ⁴¹ | M 3 | | | | | | | | |
| T 4 | 18 50 7 | 12 ⁵¹ 35 | 3 ^H 24 | 12 ⁵⁶ | 5 ¹⁵ | 21 ⁵⁴ | 26 ⁵⁷ | 27 ²⁵ | 4 ⁵⁴ | 27 ¹⁴ | 14 ³⁶ | 0 ⁴⁶ | 0 ²⁰ | 5 ⁵⁴ | 29 ⁴⁴ | T 4 | | | | | | | | |
| W 5 | 18 54 4 | 13 ⁴⁸ 49 | 16 ³ | 15 ⁸ | 6 ²⁹ | 21 ³⁹ | 27 ⁹ | 27 ²⁹ | 4 ⁵³ | 27 ¹⁶ | 14 ³⁶ | 0 ⁴⁵ | 0 ¹⁷ | 6 ¹ | 29 ⁴⁷ | W 5 | | | | | | | | |
| T 6 | 18 58 0 | 14 ⁴⁶ 03 | 28 ²⁴ | 17 ¹⁸ | 7 ⁴² | 21 ²⁴ | 27 ²¹ | 27 ³³ | 4 ⁵¹ | 27 ¹⁸ | 14 ³⁷ | 0 ⁴⁴ | 0 ¹⁴ | 6 ⁷ | 29 ⁵⁰ | T 6 | | | | | | | | |
| F 7 | 19 1 57 | 15 ⁴³ 18 | 10 ^V 31 | 19 ²⁸ | 8 ⁵⁶ | 21 ¹⁰ | 27 ³² | 27 ³⁶ | 4 ⁴⁹ | 27 ²¹ | 14 ³⁷ | 0 ^D 43 | 0 ¹¹ | 6 ¹⁴ | 29 ⁵⁴ | F 7 | | | | | | | | |
| S 8 | 19 5 53 | 16 ⁴⁰ 32 | 22 ²⁹ | 21 ³⁷ | 10 ¹⁰ | 20 ⁵⁶ | 27 ⁴⁴ | 27 ⁴⁰ | 4 ⁴⁷ | 27 ²³ | 14 ³⁷ | 0 ⁴³ | 0 ⁷ | 6 ²¹ | 29 ⁵⁷ | S 8 | | | | | | | | |
| S 9 | 19 9 50 | 17 ³⁷ 47 | 4 ²¹ | 23 ⁴⁴ | 11 ²³ | 20 ⁴⁴ | 27 ⁵⁶ | 27 ⁴⁴ | 4 ⁴⁶ | 27 ²⁵ | 14 ³⁷ | 0 ⁴⁴ | 0 ⁴ | 6 ²⁷ | 29 ⁵⁹ | S 9 | | | | | | | | |
| M10 | 19 13 46 | 18 ³⁵ 01 | 16 ¹³ | 25 ⁵¹ | 12 ³⁷ | 20 ³¹ | 28 ⁷ | 27 ⁴⁸ | 4 ⁴⁴ | 27 ²⁷ | 14 ³⁷ | 0 ⁴⁵ | 0 ¹ | 6 ³⁴ | 0 ^{II} 3 | M10 | | | | | | | | |
| T 11 | 19 17 43 | 19 ³² 16 | 28 ⁸ | 27 ⁵⁵ | 13 ⁵¹ | 20 ²⁰ | 28 ¹⁹ | 27 ⁵² | 4 ⁴³ | 27 ²⁹ | 14 ³⁷ | 0 ⁴⁶ | 29 ^A 58 | 6 ⁴¹ | 0 ⁶ | T 11 | | | | | | | | |
| W12 | 19 21 39 | 20 ²⁹ 31 | 10 ^{II} 12 | 29 ⁵⁹ | 15 ⁴ | 20 ⁹ | 28 ³⁰ | 27 ⁵⁷ | 4 ⁴¹ | 27 ³² | 14 ³⁷ | 0 ⁴⁸ | 29 ⁵⁵ | 6 ⁴⁸ | 0 ⁸ | W12 | | | | | | | | |
| T 13 | 19 25 36 | 21 ²⁶ 46 | 22 ²⁸ | 2 ⁰ | 16 ¹⁸ | 19 ⁵⁹ | 28 ⁴¹ | 28 ¹ | 4 ⁴⁰ | 27 ³⁴ | 14 ³⁷ | 0 ⁴⁹ | 29 ⁵² | 6 ⁵⁴ | 0 ¹¹ | T 13 | | | | | | | | |
| F 14 | 19 29 33 | 22 ²⁴ 01 | 4 ⁵⁷ | 3 ⁵⁹ | 17 ³² | 19 ⁵⁰ | 28 ⁵³ | 28 ⁵ | 4 ³⁸ | 27 ³⁶ | 14 ^R 37 | 0 ^R 49 | 29 ⁴⁸ | 7 ¹ | 0 ¹⁴ | F 14 | | | | | | | | |
| S 15 | 19 33 29 | 23 ²¹ 16 | 17 ⁴³ | 5 ⁵⁷ | 18 ⁴⁵ | 19 ⁴² | 29 ⁴ | 28 ¹⁰ | 4 ³⁷ | 27 ³⁸ | 14 ³⁷ | 0 ⁴⁸ | 29 ⁴⁵ | 7 ⁸ | 0 ¹⁷ | S 15 | | | | | | | | |
| S 16 | 19 37 26 | 24 ¹⁸ 31 | 0 ⁴⁵ | 7 ⁵³ | 19 ⁵⁹ | 19 ³⁵ | 29 ¹⁵ | 28 ¹⁴ | 4 ³⁶ | 27 ⁴¹ | 14 ³⁷ | 0 ⁴⁶ | 29 ⁴² | 7 ¹⁴ | 0 ²⁰ | S 16 | | | | | | | | |
| M17 | 19 41 22 | 25 ¹⁵ 46 | 14 ³ | 9 ⁴⁷ | 21 ¹³ | 19 ²⁸ | 29 ²⁶ | 28 ¹⁹ | 4 ³⁴ | 27 ⁴³ | 14 ³⁷ | 0 ⁴³ | 29 ³⁹ | 7 ²¹ | 0 ²² | M17 | | | | | | | | |
| T 18 | 19 45 19 | 26 ¹³ 01 | 27 ³⁷ | 11 ³⁹ | 22 ²⁶ | 19 ²² | 29 ³⁶ | 28 ²⁴ | 4 ³³ | 27 ⁴⁵ | 14 ³⁷ | 0 ³⁹ | 29 ³⁶ | 7 ²⁸ | 0 ²⁵ | T 18 | | | | | | | | |
| W19 | 19 49 15 | 27 ¹⁰ 16 | 11 ^{II} 23 | 13 ²⁹ | 23 ⁴⁰ | 19 ¹⁷ | 29 ⁴⁷ | 28 ²⁹ | 4 ³² | 27 ⁴⁷ | 14 ³⁷ | 0 ³⁶ | 29 ³² | 7 ³⁴ | 0 ²⁸ | W19 | | | | | | | | |
| T 20 | 19 53 12 | 28 ⁷ 31 | 25 ¹⁹ | 15 ¹⁷ | 24 ⁵⁴ | 19 ¹³ | 29 ⁵⁸ | 28 ³³ | 4 ³¹ | 27 ⁴⁹ | 14 ³⁷ | 0 ³² | 29 ²⁹ | 7 ⁴¹ | 0 ³⁰ | T 20 | | | | | | | | |
| F 21 | 19 57 8 | 29 ⁴ 46 | 9 ^A 23 | 17 ³ | 26 ⁸ | 19 ¹⁰ | 0 ^{II} 8 | 28 ³⁸ | 4 ³⁰ | 27 ⁵² | 14 ³⁷ | 0 ³⁰ | 29 ²⁶ | 7 ⁴⁸ | 0 ³³ | F 21 | | | | | | | | |
| S 22 | 20 1 5 | 0 ⁴ 01 | 23 ³² | 18 ⁴⁷ | 27 ²² | 19 ⁸ | 0 ¹⁹ | 28 ⁴³ | 4 ²⁸ | 27 ⁵⁴ | 14 ³⁷ | 0 ^D 29 | 29 ²³ | 7 ⁵⁵ | 0 ³⁵ | S 22 | | | | | | | | |
| S 23 | 20 5 2 | 0 ⁵⁹ 15 | 7 ⁴⁵ | 20 ³⁰ | 28 ³⁵ | 19 ⁶ | 0 ²⁹ | 28 ⁴⁸ | 4 ²⁷ | 27 ⁵⁶ | 14 ³⁶ | 0 ²⁹ | 29 ²⁰ | 8 ¹ | 0 ³⁸ | S 23 | | | | | | | | |
| M24 | 20 8 58 | 1 ⁵⁶ 30 | 21 ⁵⁸ | 22 ¹⁰ | 29 ⁴⁹ | 19 ^D 5 | 0 ³⁹ | 28 ⁵³ | 4 ²⁶ | 27 ⁵⁸ | 14 ³⁶ | 0 ³⁰ | 29 ¹⁷ | 8 ⁸ | 0 ⁴⁰ | M24 | | | | | | | | |
| T 25 | 20 12 55 | 2 ⁵³ 45 | 6 ^A 9 | 23 ⁴⁸ | 1 ⁴ | 19 ⁵ | 0 ⁴⁹ | 28 ⁵⁹ | 4 ²⁶ | 28 ¹ | 14 ³⁶ | 0 ³¹ | 29 ¹³ | 8 ¹⁵ | 0 ⁴² | T 25 | | | | | | | | |
| W26 | 20 16 51 | 3 ⁵¹ 00 | 20 ¹⁸ | 25 ²⁵ | 2 ¹⁷ | 19 ⁶ | 0 ⁵⁹ | 29 ⁴ | 4 ²⁵ | 28 ³ | 14 ³⁶ | 0 ³² | 29 ¹⁰ | 8 ²¹ | 0 ⁴⁵ | W26 | | | | | | | | |
| T 27 | 20 20 48 | 4 ⁴⁸ 15 | 4 ²⁰ | 26 ⁵⁹ | 3 ³¹ | 19 ⁸ | 1 ⁹ | 29 ⁹ | 4 ²⁴ | 28 ⁵ | 14 ³⁶ | 0 ^R 33 | 29 ⁷ | 8 ²⁸ | 0 ⁴⁷ | T 27 | | | | | | | | |
| F 28 | 20 24 44 | 5 ⁴⁵ 30 | 18 ¹³ | 28 ³¹ | 4 ⁴⁴ | 19 ¹¹ | 1 ¹⁹ | 29 ¹⁵ | 4 ²³ | 28 ⁷ | 14 ³⁵ | 0 ³¹ | 29 ⁴ | 8 ³⁵ | 0 ⁴⁹ | F 28 | | | | | | | | |
| S 29 | 20 28 41 | 6 ⁴² 45 | 1 ^A 54 | 0 ^{II} 2 | 5 ⁵⁸ | 19 ¹⁵ | 1 ²⁸ | 29 ²⁰ | 4 ²² | 28 ⁹ | 14 ³⁵ | 0 ²⁸ | 29 ¹ | 8 ⁴¹ | 0 ⁵¹ | S 29 | | | | | | | | |
| S 30 | 20 32 37 | 7 ⁴⁰ 01 | 15 ²¹ | 1 ³⁰ | 7 ¹² | 19 ¹⁹ | 1 ³⁸ | 29 ²⁶ | 4 ²² | 28 ¹² | 14 ³⁵ | 0 ²⁴ | 28 ⁵⁸ | 8 ⁴⁸ | 0 ⁵³ | S 30 | | | | | | | | |
| M31 | 20 36 34 | 8 ⁴³ 18 | 28 ^A 32 | 2 ^{II} 57 | 8 ⁴² 6 | 19 ^A 24 | 1 ^{II} 47 | 29 ³¹ | 4 ^A 21 | 28 ¹⁴ | 14 ^V 34 | 0 ³ 18 | 28 ^A 54 | 8 ⁴⁵ 5 | 0 ^{II} 55 | M31 | | | | | | | | |

Delta T = 18m16s

AUGUST 2569

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|------------------|-------------------|------------------|--------------------|--------------------|--------------------|------------------|--------------------|------|---|---|---|---|---|---|---|-----|
| T 1 | 20 40 31 | 9 ³⁴ 35 | 11 ^H 25 | 4 ^{II} 21 | 9 ⁴⁰ | 19 ^A 30 | 1 ^{II} 56 | 29 ³⁷ | 4 ^R 20 | 28 ¹⁶ | 14 ^R 34 | 0 ^R 12 | 28 ^A 51 | 9 ⁸ 1 | 0 ^{II} 57 | T 1 | | | | | | | | |
| W 2 | 20 44 27 | 10 ³¹ 52 | 24 ¹ | 5 ⁴³ | 10 ⁵⁴ | 19 ³⁶ | 2 ⁵ | 29 ⁴³ | 4 ^A 20 | 28 ¹⁸ | 14 ^V 33 | 0 ³ 5 | 28 ⁴⁸ | 9 ⁸ | 0 ⁵⁹ | W 2 | | | | | | | | |
| T 3 | 20 48 24 | 11 ²⁹ 11 | 6 ^V 21 | 7 ⁴ | 12 ⁸ | 19 ⁴⁴ | 2 ¹⁵ | 29 ⁴⁸ | 4 ¹⁹ | 28 ²⁰ | 14 ³³ | 29 ^A 59 | 28 ⁴⁵ | 9 ¹⁵ | 1 ¹ | T 3 | | | | | | | | |
| F 4 | 20 52 20 | 12 ²⁶ 30 | 18 ²⁸ | 8 ²² | 13 ²² | 19 ⁵² | 2 ²³ | 29 ⁵⁴ | 4 ¹⁹ | 28 ²³ | 14 ³³ | 29 ⁵⁵ | 28 ⁴² | 9 ²² | 1 ³ | F 4 | | | | | | | | |
| S 5 | 20 56 17 | 13 ²³ 50 | 0 ^B 25 | 9 ³⁸ | 14 ³⁶ | 20 ¹ | 2 ³² | 0 ^A 0 | 4 ¹⁹ | 28 ²⁵ | 14 ³² | 29 ⁵² | 28 ³⁸ | 9 ²⁸ | 1 ⁵ | S 5 | | | | | | | | |
| S 6 | 21 0 13 | 14 ²¹ 11 | 12 ¹⁷ | 10 ⁵¹ | 15 ⁵⁰ | 20 ¹¹ | 2 ⁴¹ | 0 ⁶ | 4 ¹⁸ | 28 ²⁷ | 14 ³² | 29 ^D 51 | 28 ³⁵ | 9 ³⁵ | 1 ⁷ | S 6 | | | | | | | | |
| M 7 | 21 4 10 | 15 ¹⁸ 34 | 24 ⁸ | 12 ³ | 17 ⁴ | 20 ²¹ | 2 ⁴⁹ | 0 ¹² | 4 ¹⁸ | 28 ²⁹ | 14 ³¹ | 29 ⁵¹ | 28 ³² | 9 ⁴² | 1 ⁸ | M 7 | | | | | | | | |
| T 8 | 21 8 6 | 16 ¹⁵ 57 | 6 ^{II} 4 | 13 ¹² | 18 ¹⁸ | 20 ³² | 2 ⁵⁸ | 0 ¹⁸ | 4 ¹⁸ | 28 ³¹ | 14 ³¹ | 29 ⁵³ | 28 ²⁹ | 9 ⁴⁸ | 1 ¹⁰ | T 8 | | | | | | | | |
| W 9 | 21 12 3 | 17 ¹³ 21 | 18 ¹⁰ | 14 ¹⁸ | 19 ³¹ | 20 ⁴⁴ | 3 ⁶ | 0 ²⁴ | 4 ¹⁷ | 28 ³³ | 14 ³⁰ | 29 ⁵⁴ | 28 ²⁶ | 9 ⁵⁵ | 1 ¹² | W 9 | | | | | | | | |
| T 10 | 21 16 0 | 18 ¹⁰ 46 | 0 ³⁰ | 15 ²² | 20 ⁴⁶ | 20 ⁵⁷ | 3 ¹⁴ | 0 ³⁰ | 4 ¹⁷ | 28 ³⁶ | 14 ³⁰ | 29 ^R 54 | 28 ²³ | 10 ² | 1 ¹³ | T 10 | | | | | | | | |
| F 11 | 21 19 56 | 19 ⁸ 13 | 13 ⁹ | 16 ²⁴ | 22 ⁰ | 21 ¹⁰ | 3 ²² | 0 ³⁷ | 4 ¹⁷ | 28 ³⁸ | 14 ²⁹ | 29 ⁵⁴ | 28 ¹⁹ | 10 ⁸ | 1 ¹⁵ | F 11 | | | | | | | | |
| S 12 | 21 23 53 | 20 ⁵ 40 | 26 ⁸ | 17 ²² | 23 ¹⁴ | 21 ²⁴ | 3 ³⁰ | 0 ⁴³ | 4 ^D 17 | 28 ⁴⁰ | 14 ²⁸ | 29 ⁵¹ | 28 ¹⁶ | 10 ¹⁵ | 1 ¹⁶ | S 12 | | | | | | | | |
| S 13 | 21 27 49 | 21 ³ 08 | 9 ⁰ 28 | 18 ¹⁸ | 24 ²⁸ | 21 ³⁹ | 3 ³⁷ | 0 ⁴⁹ | 4 ¹⁷ | 28 ⁴² | 14 ²⁸ | 29 ⁴⁶ | 28 ¹³ | 10 ²² | 1 ¹⁷ | S 13 | | | | | | | | |
| M14 | 21 31 46 | 22 ⁰ 37 | 23 ¹⁰ | 19 ¹¹ | 25 ⁴² | 21 ⁵⁴ | 3 ⁴⁵ | 0 ⁵⁶ | 4 ¹⁷ | 28 ⁴⁴ | 14 ²⁷ | 29 ³⁹ | 28 ¹⁰ | 10 ²⁸ | 1 ¹⁹ | M14 | | | | | | | | |
| T 15 | 21 35 42 | 22 ⁵⁸ 07 | 7 ^{II} 10 | 20 ⁰ | 26 ⁵⁶ | 22 ¹⁰ | 3 ⁵² | 1 ² | 4 ¹⁷ | 28 ⁴⁶ | 14 ²⁷ | 29 ³⁰ | 28 ⁷ | 10 ³⁵ | 1 ²⁰ | T 15 | | | | | | | | |
| W16 | 21 39 39 | 23 ⁵⁵ 38 | 21 ²³ | 20 ⁴⁶ | 28 ¹⁰ | 22 ²⁷ | 4 ⁰ | 1 ⁸ | 4 ¹⁸ | 28 ⁴⁸ | 14 ²⁶ | 29 ²² | 28 ⁴ | 10 ⁴² | 1 ²¹ | W16 | | | | | | | | |
| T 17 | 21 43 35 | 24 ⁵³ 10 | 5 ^A 45 | 21 ²⁹ | 29 ²⁴ | 22 ⁴⁴ | 4 ⁷ | 1 ¹⁵ | 4 ¹⁸ | 28 ⁵⁰ | 14 ²⁵ | 29 ¹⁴ | 28 ⁰ | 10 ⁴⁸ | 1 ²² | T 17 | | | | | | | | |
| F 18 | 21 47 32 | 25 ⁵⁰ 43 | 20 ⁹ | 22 ⁸ | 0 ^{II} 38 | 23 ² | 4 ¹⁴ | 1 ²¹ | 4 ¹⁸ | 28 ⁵² | 14 ²⁴ | 29 ⁸ | 27 ⁵⁷ | 10 ⁵⁵ | 1 ²³ | F 18 | | | | | | | | |
| S 19 | 21 51 29 | 26 ⁴⁸ 16 | 4 ^{III} 31 | 22 ⁴³ | 1 ⁵² | 23 ²¹ | 4 ²⁰ | 1 ²⁸ | 4 ¹⁸ | 28 ⁵⁴ | 14 ²⁴ | 29 ³ | 27 ⁵⁴ | 11 ² | 1 ²⁴ | S 19 | | | | | | | | |
| S 20 | 21 55 25 | 27 ⁴⁵ 50 | 18 ⁴⁷ | 23 ¹⁴ | 3 ⁶ | 23 ⁴⁰ | 4 ²⁷ | 1 ³⁵ | 4 ¹⁹ | 28 ⁵⁶ | 14 ²³ | 29 ¹ | 27 ⁵¹ | 11 ⁹ | 1 ²⁵ | S 20 | | | | | | | | |
| M21 | 21 59 22 | 28 ⁴³ 26 | 2 ^A | | | | | | | | | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2569
geocentric

SEPTEMBER 2569

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|------|-------|--------|--------|-------|-------|-------|------|---|---|---|---|-----|
| F 1 | 22 42 44 | 9♎18'00 | 26♏30 | 22°R59 | 17♎56 | 28♏11 | 5♎34 | 2♎57 | 4♏27 | 29♏19 | 14°R13 | 27°R50 | 27♏13 | 12♎29 | 1♎33 | F 1 | | | | | |
| S 2 | 22 46 40 | 10°15'49 | 8♎25 | 22♎22 | 19°10 | 28°37 | 5°38 | 3° 4 | 4°29 | 29°21 | 14°Y12 | 27°R43 | 27°10 | 12°35 | 1°33 | S 2 | | | | | |
| S 3 | 22 50 37 | 11°13'41 | 20°15 | 21°40 | 20°24 | 29° 3 | 5°43 | 3°11 | 4°30 | 29°23 | 14°11 | 27°39 | 27° 6 | 12°42 | 1°33 | S 3 | | | | | |
| M 4 | 22 54 33 | 12°11'33 | 2♎5 | 20°54 | 21°39 | 29°30 | 5°47 | 3°19 | 4°31 | 29°24 | 14°10 | 27°37 | 27° 3 | 12°49 | 1°33 | M 4 | | | | | |
| T 5 | 22 58 30 | 13° 9'28 | 14° 0 | 20° 4 | 22°53 | 29°57 | 5°51 | 3°26 | 4°32 | 29°26 | 14° 9 | 27°D36 | 27° 0 | 12°55 | 1°R33 | T 5 | | | | | |
| W 6 | 23 2 27 | 14° 7'25 | 26° 4 | 19°11 | 24° 7 | 0♎24 | 5°54 | 3°33 | 4°33 | 29°28 | 14° 8 | 27°R37 | 26°57 | 13° 2 | 1°33 | W 6 | | | | | |
| T 7 | 23 6 23 | 15° 5'23 | 8♎25 | 18°16 | 25°21 | 0°52 | 5°58 | 3°40 | 4°35 | 29°30 | 14° 7 | 27°36 | 26°54 | 13° 9 | 1°33 | T 7 | | | | | |
| F 8 | 23 10 20 | 16° 3'23 | 21° 5 | 17°19 | 26°35 | 1°20 | 6° 1 | 3°48 | 4°36 | 29°31 | 14° 6 | 27°34 | 26°50 | 13°16 | 1°33 | F 8 | | | | | |
| S 9 | 23 14 16 | 17° 1'25 | 4♎10 | 16°24 | 27°50 | 1°49 | 6° 4 | 3°55 | 4°37 | 29°33 | 14° 5 | 27°30 | 26°47 | 13°22 | 1°33 | S 9 | | | | | |
| S 10 | 23 18 13 | 17°59'28 | 17°42 | 15°29 | 29° 4 | 2°18 | 6° 7 | 4° 2 | 4°39 | 29°34 | 14° 4 | 27°23 | 26°44 | 13°29 | 1°32 | S 10 | | | | | |
| M 11 | 23 22 9 | 18°57'33 | 1♎39 | 14°37 | 0♎18 | 2°47 | 6°10 | 4° 9 | 4°40 | 29°36 | 14° 3 | 27°14 | 26°41 | 13°36 | 1°32 | M 11 | | | | | |
| T 12 | 23 26 6 | 19°55'40 | 16° 0 | 13°49 | 1°32 | 3°17 | 6°13 | 4°17 | 4°42 | 29°38 | 14° 2 | 27° 3 | 26°38 | 13°42 | 1°32 | T 12 | | | | | |
| W 13 | 23 30 2 | 20°53'49 | 0♎38 | 13° 6 | 2°47 | 3°47 | 6°15 | 4°24 | 4°43 | 29°39 | 14° 1 | 26°52 | 26°35 | 13°49 | 1°31 | W 13 | | | | | |
| T 14 | 23 33 59 | 21°51'59 | 15°25 | 12°28 | 4° 1 | 4°18 | 6°18 | 4°31 | 4°45 | 29°41 | 14° 0 | 26°41 | 26°31 | 13°56 | 1°31 | T 14 | | | | | |
| F 15 | 23 37 55 | 22°50'11 | 0♎14 | 11°58 | 5°15 | 4°49 | 6°20 | 4°39 | 4°47 | 29°42 | 13°59 | 26°32 | 26°28 | 14° 2 | 1°30 | F 15 | | | | | |
| S 16 | 23 41 52 | 23°48'24 | 14°56 | 11°35 | 6°29 | 5°20 | 6°21 | 4°46 | 4°48 | 29°44 | 13°58 | 26°26 | 26°25 | 14° 9 | 1°29 | S 16 | | | | | |
| S 17 | 23 45 49 | 24°46'39 | 29°26 | 11°20 | 7°44 | 5°52 | 6°23 | 4°54 | 4°50 | 29°45 | 13°57 | 26°22 | 26°22 | 14°16 | 1°29 | S 17 | | | | | |
| M 18 | 23 49 45 | 25°44'56 | 13♏40 | 11°D14 | 8°58 | 6°24 | 6°25 | 5° 1 | 4°52 | 29°47 | 13°55 | 26°21 | 26°19 | 14°22 | 1°28 | M 18 | | | | | |
| T 19 | 23 53 42 | 26°43'14 | 27°36 | 11°17 | 10°12 | 6°56 | 6°26 | 5° 9 | 4°54 | 29°48 | 13°54 | 26°21 | 26°15 | 14°29 | 1°27 | T 19 | | | | | |
| W 20 | 23 57 38 | 27°41'33 | 11♎16 | 11°29 | 11°27 | 7°28 | 6°27 | 5°16 | 4°56 | 29°49 | 13°53 | 26°20 | 26°12 | 14°36 | 1°26 | W 20 | | | | | |
| T 21 | 0 1 35 | 28°39'54 | 24°40 | 11°50 | 12°41 | 8° 1 | 6°28 | 5°23 | 4°58 | 29°51 | 13°52 | 26°19 | 26° 9 | 14°42 | 1°25 | T 21 | | | | | |
| F 22 | 0 5 31 | 29°38'16 | 7♎50 | 12°20 | 13°55 | 8°34 | 6°28 | 5°31 | 5° 0 | 29°52 | 13°51 | 26°15 | 26° 6 | 14°49 | 1°24 | F 22 | | | | | |
| S 23 | 0 9 28 | 0♎36'40 | 20°48 | 12°59 | 15° 9 | 9° 8 | 6°29 | 5°38 | 5° 2 | 29°53 | 13°50 | 26° 8 | 26° 3 | 14°56 | 1°23 | S 23 | | | | | |
| S 24 | 0 13 24 | 1°35'05 | 3♎34 | 13°46 | 16°24 | 9°41 | 6°29 | 5°46 | 5° 4 | 29°55 | 13°49 | 25°58 | 26° 0 | 15° 2 | 1°22 | S 24 | | | | | |
| M 25 | 0 17 21 | 2°33'32 | 16° 9 | 14°41 | 17°38 | 10°15 | 6°R29 | 5°53 | 5° 6 | 29°56 | 13°47 | 25°46 | 25°56 | 15° 9 | 1°21 | M 25 | | | | | |
| T 26 | 0 21 18 | 3°32'01 | 28°34 | 15°44 | 18°52 | 10°50 | 6°29 | 6° 1 | 5° 8 | 29°57 | 13°46 | 25°33 | 25°53 | 15°16 | 1°20 | T 26 | | | | | |
| W 27 | 0 25 14 | 4°30'32 | 10♏49 | 16°53 | 20° 6 | 11°24 | 6°29 | 6° 8 | 5°11 | 29°58 | 13°45 | 25°19 | 25°50 | 15°22 | 1°19 | W 27 | | | | | |
| T 28 | 0 29 11 | 5°29'05 | 22°55 | 18° 9 | 21°21 | 11°59 | 6°28 | 6°16 | 5°13 | 29°59 | 13°44 | 25° 6 | 25°47 | 15°29 | 1°17 | T 28 | | | | | |
| F 29 | 0 33 7 | 6°27'39 | 4♎52 | 19°30 | 22°35 | 12°34 | 6°27 | 6°23 | 5°15 | 0♎ 0 | 13°43 | 24°56 | 25°44 | 15°36 | 1°16 | F 29 | | | | | |
| S 30 | 0 37 4 | 7♎26'16 | 16♎43 | 20♎57 | 23♎49 | 13♎ 9 | 6♎27 | 6♎31 | 5♎18 | 0♎ 2 | 13°Y42 | 24♎48 | 25♎41 | 15♎42 | 1♎15 | S 30 | | | | | |

Delta T = 18m17s

OCTOBER 2569

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|------|------|--------|--------|-------|-------|-------|------|---|---|---|---|-----|
| S 1 | 0 41 0 | 8♎24'55 | 28♎31 | 22♎27 | 25♎ 3 | 13♎45 | 6°R25 | 6♎38 | 5♎20 | 0♎ 3 | 13°R40 | 24°R42 | 25♎37 | 15♎49 | 1°R13 | S 1 | | | | | |
| M 2 | 0 44 57 | 9°23'36 | 10♎19 | 24° 2 | 26°18 | 14°20 | 6♎22 | 6°46 | 5°22 | 0° 4 | 13°Y39 | 24♎39 | 25°34 | 15°56 | 1♎12 | M 2 | | | | | |
| T 3 | 0 48 53 | 10°22'19 | 22°12 | 25°40 | 27°32 | 14°56 | 6°22 | 6°53 | 5°25 | 0° 5 | 13°38 | 24°D39 | 25°31 | 16° 2 | 1°10 | T 3 | | | | | |
| W 4 | 0 52 50 | 11°21'04 | 4♎15 | 27°20 | 28°46 | 15°33 | 6°21 | 7° 1 | 5°27 | 0° 6 | 13°37 | 24°39 | 25°28 | 16° 9 | 1° 8 | W 4 | | | | | |
| T 5 | 0 56 47 | 12°19'52 | 16°33 | 29° 3 | 0♎ 0 | 16° 9 | 6°19 | 7° 8 | 5°30 | 0° 7 | 13°36 | 24°R39 | 25°25 | 16°16 | 1° 7 | T 5 | | | | | |
| F 6 | 1 0 43 | 13°18'42 | 29°11 | 0♎47 | 1°15 | 16°46 | 6°17 | 7°16 | 5°32 | 0° 8 | 13°35 | 24°38 | 25°21 | 16°23 | 1° 5 | F 6 | | | | | |
| S 7 | 1 4 40 | 14°17'34 | 12♎14 | 2°33 | 2°29 | 17°23 | 6°14 | 7°23 | 5°35 | 0° 8 | 13°33 | 24°35 | 25°18 | 16°29 | 1° 3 | S 7 | | | | | |
| S 8 | 1 8 36 | 15°16'28 | 25°45 | 4°19 | 3°43 | 18° 0 | 6°12 | 7°31 | 5°38 | 0° 9 | 13°32 | 24°29 | 25°15 | 16°36 | 1° 1 | S 8 | | | | | |
| M 9 | 1 12 33 | 16°15'25 | 9♎46 | 6° 7 | 4°57 | 18°37 | 6° 9 | 7°38 | 5°40 | 0°10 | 13°31 | 24°21 | 25°12 | 16°43 | 0°59 | M 9 | | | | | |
| T 10 | 1 16 29 | 17°14'23 | 24°14 | 7°55 | 6°11 | 19°14 | 6° 6 | 7°46 | 5°43 | 0°11 | 13°30 | 24°12 | 25° 9 | 16°49 | 0°58 | T 10 | | | | | |
| W 11 | 1 20 26 | 18°13'24 | 9♎ 5 | 9°43 | 7°26 | 19°52 | 6° 3 | 7°53 | 5°46 | 0°12 | 13°29 | 24° 1 | 25° 6 | 16°56 | 0°56 | W 11 | | | | | |
| T 12 | 1 24 22 | 19°12'27 | 24°10 | 11°31 | 8°40 | 20°30 | 6° 0 | 8° 0 | 5°49 | 0°12 | 13°27 | 23°52 | 25° 2 | 17° 3 | 0°54 | T 12 | | | | | |
| F 13 | 1 28 19 | 20°11'32 | 9♎19 | 13°19 | 9°54 | 21° 8 | 5°56 | 8° 8 | 5°52 | 0°13 | 13°26 | 23°44 | 24°59 | 17° 9 | 0°51 | F 13 | | | | | |
| S 14 | 1 32 15 | 21°10'39 | 24°23 | 15° 6 | 11° 8 | 21°46 | 5°52 | 8°15 | 5°55 | 0°14 | 13°25 | 23°38 | 24°56 | 17°16 | 0°49 | S 14 | | | | | |
| S 15 | 1 36 12 | 22° 9'47 | 9♎11 | 16°53 | 12°23 | 22°25 | 5°48 | 8°23 | 5°57 | 0°14 | 13°24 | 23°35 | 24°53 | 17°23 | 0°47 | S 15 | | | | | |
| M 16 | 1 40 9 | 23° 8'58 | 23°40 | 18°40 | 13°37 | 23° 4 | 5°44 | 8°30 | 6° 0 | 0°15 | 13°23 | 23°D34 | 24°50 | 17°29 | 0°45 | M 16 | | | | | |
| T 17 | 1 44 5 | 24° 8'10 | 7♎46 | 20°26 | 14°51 | 23°42 | 5°40 | 8°37 | 6° 3 | 0°16 | 13°22 | 23°35 | 24°47 | 17°36 | 0°43 | T 17 | | | | | |
| W 18 | 1 48 2 | 25° 7'24 | 21°28 | 22°12 | 16° 5 | 24°21 | 5°36 | 8°45 | 6° 6 | 0°16 | 13°20 | 23°R36 | 24°43 | 17°43 | 0°40 | W 18 | | | | | |
| T 19 | 1 51 58 | 26° 6'40 | 4♎49 | 23°57 | 17°20 | 25° 1 | 5°31 | 8°52 | 6° 9 | 0°17 | 13°19 | 23°35 | 24°40 | 17°49 | 0°38 | T 19 | | | | | |
| F 20 | 1 55 55 | 27° 5'57 | 17°51 | 25°41 | 18°34 | 25°40 | 5°26 | 8°59 | 6°13 | 0°17 | 13°18 | 23°33 | 24°37 | 17°56 | 0°36 | F 20 | | | | | |
| S 21 | 1 59 51 | 28° 5'16 | 0♎36 | 27°25 | 19°48 | 26°19 | 5°21 | 9° 6 | 6°16 | 0°17 | 13°17 | 23°29 | 24°34 | 18° 3 | 0°33 | S 21 | | | | | |
| S 22 | 2 3 48 | 29° 4'37 | 13° 8 | 29° 8 | 21° 2 | 26°59 | 5°16 | 9°14 | 6°19 | 0°18 | 13°16 | 23°22 | 24°31 | 18° 9 | 0°31 | S 22 | | | | | |
| M 23 | 2 7 44 | 0♎ 3'59 | 25°29 | 0♎50 | 22°16 | 27°39 | 5°11 | 9°21 | 6°22 | 0°18 | 13°15 | 23°13 | 24°27 | 18°16 | 0°28 | M 23 | | | | | |
| T 24 | 2 11 41 | 1° 3'24 | 7♎40 | 2°31 | 23°30 | 28°19 | 5° 5 | 9°28 | 6°25 | 0°19 | 13°14 | 23° 3 | 24°24 | 18°23 | 0°26 | T 24 | | | | | |
| W 25 | 2 15 38 | 2° 2'50 | 19°43 | 4°12 | 24°45 | 28°59 | 5° 0 | 9°35 | 6°28 | 0°19 | 13°13 | 22°53 | 24°21 | 18°29 | 0°23 | W 25 | | | | | |
| T 26 | 2 19 34 | 3° 2'18 | 1♎40 | 5°52 | 25°59 | 29°39 | 4°54 | 9°42 | 6°32 | 0°19 | 13°11 | 22°44 | 24°18 | 18°36 | 0°21 | T 26 | | | | | |
| F 27 | 2 23 31 | 4° 1'48 | 13°33 | 7°32 | 27°13 | 0♎20 | 4°48 | 9°49 | 6°35 | 0°19 | 13°10 | 22°36 | 24°15 | 18°43 | 0°18 | F 27 | | | | | |
| S 28 | 2 27 27 | 5° 1'21 | 25°22 | 9°11 | 28°27 | 1° 0 | 4°42 | 9°56 | 6°38 | 0°19 | 13° 9 | 22°30 | 24°12 | 18°49 | 0°15 | S 28 | | | | | |
| S 29 | 2 31 24 | 6° 0'55 | 7♎10 | 10°49 | 29°41 | 1°41 | 4°36 | 10° 3 | 6°41 | 0°20 | 13° 8 | 22°27 | 24° 8 | 18°56 | 0°13 | S 29 | | | | | |
| M 30 | 2 35 20 | 7° 0'32 | 18°59 | 12°26 | 0♎55 | 2°21 | 4°29 | 10°10 | 6°45 | 0°20 | 13° 7 | 22°D25 | 24° 5 | 19° 3 | 0°10 | M 30 | | | | | |
| T 31 | 2 39 17 | 8♎ 0'11 | 0♎54 | 14♎ 3 | 2♎ 9 | 3♎ 2 | 4♎23 | 10♎17 | 6♎48 | 0♎20 | 13°Y 6 | 22♎25 | 24♎ 2 | 19♎ 9 | 0♎ 7 | T 31 | | | | | |

Delta T = 18m17s

ASTRODIENST EPHEMERIS for the year 2569
geocentric

NOVEMBER 2569

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|------|-------|--------|--------|-------|-------|-------|------|-----|
| W 1 | 2 43 13 | 8♁59'52 | 12☾57 | 15♁40 | 3♁24 | 3♁43 | 4°R16 | 10♁24 | 6♁51 | 0♁20 | 13°R 5 | 22♁27 | 23♁59 | 19♁16 | 0°R 4 | W 1 | |
| T 2 | 2 47 10 | 9°59'35 | 25°14 | 17°16 | 4°38 | 4°24 | 4♁10 | 10°31 | 6°55 | 0°R20 | 13°Y 4 | 22°28 | 23°56 | 19°23 | 0♁2 | T 2 | |
| F 3 | 2 51 7 | 10°59'20 | 7♁29 | 18°51 | 5°52 | 5° 6 | 4° 3 | 10°38 | 6°58 | 0°20 | 13° 3 | 22°R29 | 23°52 | 19°29 | 29♁59 | F 3 | |
| S 4 | 2 55 3 | 11°59'08 | 20°47 | 20°26 | 7° 6 | 5°47 | 3°56 | 10°45 | 7° 2 | 0°20 | 13° 2 | 22°29 | 23°49 | 19°36 | 29°56 | S 4 | |
| S 5 | 2 59 0 | 12°58'58 | 4♁11 | 22° 0 | 8°20 | 6°28 | 3°49 | 10°52 | 7° 5 | 0°20 | 13° 1 | 22°27 | 23°46 | 19°43 | 29°53 | S 5 | |
| M 6 | 3 2 56 | 13°58'50 | 18° 4 | 23°34 | 9°34 | 7°10 | 3°41 | 10°58 | 7° 9 | 0°20 | 13° 0 | 22°23 | 23°43 | 19°49 | 29°50 | M 6 | |
| T 7 | 3 6 53 | 14°58'44 | 2♁26 | 25° 7 | 10°48 | 7°52 | 3°34 | 11° 5 | 7°12 | 0°20 | 12°59 | 22°18 | 23°40 | 19°56 | 29°47 | T 7 | |
| W 8 | 3 10 49 | 15°58'40 | 17°13 | 26°40 | 12° 2 | 8°33 | 3°27 | 11°12 | 7°16 | 0°19 | 12°58 | 22°13 | 23°37 | 20° 3 | 29°44 | W 8 | |
| T 9 | 3 14 46 | 16°58'38 | 2♁18 | 28°12 | 13°16 | 9°15 | 3°19 | 11°18 | 7°19 | 0°19 | 12°57 | 22° 7 | 23°33 | 20° 9 | 29°41 | T 9 | |
| F 10 | 3 18 42 | 17°58'39 | 17°34 | 29°44 | 14°31 | 9°57 | 3°11 | 11°25 | 7°23 | 0°19 | 12°56 | 22° 3 | 23°30 | 20°16 | 29°38 | F 10 | |
| S 11 | 3 22 39 | 18°58'41 | 2♁48 | 1♁15 | 15°45 | 10°39 | 3° 4 | 11°31 | 7°26 | 0°19 | 12°55 | 22° 0 | 23°27 | 20°23 | 29°35 | S 11 | |
| S 12 | 3 26 36 | 19°58'45 | 17°52 | 2°46 | 16°59 | 11°22 | 2°56 | 11°38 | 7°30 | 0°18 | 12°54 | 21°D59 | 23°24 | 20°29 | 29°32 | S 12 | |
| M13 | 3 30 32 | 20°58'51 | 2☾36 | 4°17 | 18°13 | 12° 4 | 2°48 | 11°44 | 7°34 | 0°18 | 12°53 | 21°59 | 23°21 | 20°36 | 29°29 | M13 | |
| T 14 | 3 34 29 | 21°58'59 | 16°56 | 5°47 | 19°27 | 12°46 | 2°40 | 11°50 | 7°37 | 0°18 | 12°52 | 22° 0 | 23°18 | 20°43 | 29°26 | T 14 | |
| W15 | 3 38 25 | 22°59'07 | 0♁50 | 7°16 | 20°41 | 13°29 | 2°32 | 11°57 | 7°41 | 0°17 | 12°52 | 22° 2 | 23°14 | 20°49 | 29°23 | W15 | |
| T 16 | 3 42 22 | 23°59'18 | 14°18 | 8°46 | 21°55 | 14°11 | 2°24 | 12° 3 | 7°44 | 0°17 | 12°51 | 22° 3 | 23°11 | 20°56 | 29°20 | T 16 | |
| F 17 | 3 46 18 | 24°59'29 | 27°21 | 10°14 | 23° 9 | 14°54 | 2°16 | 12° 9 | 7°48 | 0°16 | 12°50 | 22°R 3 | 23° 8 | 21° 3 | 29°17 | F 17 | |
| S 18 | 3 50 15 | 25°59'43 | 10♁4 | 11°43 | 24°23 | 15°37 | 2° 8 | 12°15 | 7°52 | 0°16 | 12°49 | 22° 3 | 23° 5 | 21° 9 | 29°14 | S 18 | |
| S 19 | 3 54 11 | 26°59'57 | 22°30 | 13°10 | 25°37 | 16°19 | 2° 0 | 12°21 | 7°55 | 0°15 | 12°48 | 22° 0 | 23° 2 | 21°16 | 29°11 | S 19 | |
| M20 | 3 58 8 | 28° 0'13 | 4♁42 | 14°38 | 26°51 | 17° 2 | 1°52 | 12°27 | 7°59 | 0°15 | 12°48 | 21°57 | 22°58 | 21°23 | 29° 8 | M20 | |
| T 21 | 4 2 5 | 29° 0'31 | 16°45 | 16° 4 | 28° 5 | 17°45 | 1°44 | 12°33 | 8° 3 | 0°14 | 12°47 | 21°54 | 22°55 | 21°29 | 29° 5 | T 21 | |
| W22 | 4 6 1 | 0♁50 | 28°40 | 17°30 | 29°19 | 18°28 | 1°36 | 12°39 | 8° 6 | 0°13 | 12°46 | 21°50 | 22°52 | 21°36 | 29° 2 | W22 | |
| T 23 | 4 9 58 | 1° 1'11 | 10♁31 | 18°56 | 0♁33 | 19°11 | 1°27 | 12°45 | 8°10 | 0°13 | 12°45 | 21°46 | 22°49 | 21°43 | 28°59 | T 23 | |
| F 24 | 4 13 54 | 2° 1'53 | 22°20 | 20°20 | 1°47 | 19°54 | 1°19 | 12°51 | 8°14 | 0°12 | 12°45 | 21°43 | 22°46 | 21°49 | 28°56 | F 24 | |
| S 25 | 4 17 51 | 3° 1'57 | 4♁10 | 21°44 | 3° 0 | 20°37 | 1°11 | 12°56 | 8°18 | 0°11 | 12°44 | 21°41 | 22°43 | 21°56 | 28°52 | S 25 | |
| S 26 | 4 21 47 | 4° 2'22 | 16° 1 | 23° 7 | 4°14 | 21°21 | 1° 3 | 13° 2 | 8°21 | 0°10 | 12°43 | 21°D40 | 22°39 | 22° 3 | 28°49 | S 26 | |
| M27 | 4 25 44 | 5° 2'49 | 27°57 | 24°30 | 5°28 | 22° 4 | 0°55 | 13° 8 | 8°25 | 0°10 | 12°43 | 21°40 | 22°36 | 22° 9 | 28°46 | M27 | |
| T 28 | 4 29 40 | 6° 3'18 | 9☾59 | 25°51 | 6°42 | 22°47 | 0°47 | 13°13 | 8°29 | 0° 9 | 12°42 | 21°41 | 22°33 | 22°16 | 28°43 | T 28 | |
| W29 | 4 33 37 | 7° 3'48 | 22°11 | 27°10 | 7°56 | 23°31 | 0°39 | 13°19 | 8°32 | 0° 8 | 12°41 | 21°42 | 22°30 | 22°23 | 28°40 | W29 | |
| T 30 | 4 37 34 | 8♁42'0 | 4♁34 | 28♁29 | 9☾10 | 24♁14 | 0♁31 | 13♁24 | 8♁36 | 0♁7 | 12♁41 | 21♁44 | 22♁27 | 22♁29 | 28♁37 | T 30 | |

Delta T = 18m17s

DECEMBER 2569

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|--------|------|-----|
| F 1 | 4 41 30 | 9♁45'4 | 17♁13 | 29♁46 | 10☾24 | 24♁58 | 0°R23 | 13♁29 | 8♁40 | 0°R 6 | 12°R40 | 21♁45 | 22♁24 | 22♁36 | 28°R34 | F 1 | |
| S 2 | 4 45 27 | 10° 5'29 | 0♁9 | 1♁1 | 11°37 | 25°41 | 0♁15 | 13°35 | 8°44 | 0♁5 | 12°Y40 | 21°45 | 22°20 | 22°43 | 28♁31 | S 2 | |
| S 3 | 4 49 23 | 11° 6'06 | 13°28 | 2°15 | 12°51 | 26°25 | 0° 7 | 13°40 | 8°47 | 0° 4 | 12°39 | 21°R46 | 22°17 | 22°49 | 28°28 | S 3 | |
| M 4 | 4 53 20 | 12° 6'45 | 27°10 | 3°26 | 14° 5 | 27° 9 | 29♁59 | 13°45 | 8°51 | 0° 3 | 12°38 | 21°45 | 22°14 | 22°56 | 28°25 | M 4 | |
| T 5 | 4 57 16 | 13° 7'25 | 11♁16 | 4°34 | 15°19 | 27°52 | 29°51 | 13°50 | 8°55 | 0° 2 | 12°38 | 21°45 | 22°11 | 23° 3 | 28°22 | T 5 | |
| W 6 | 5 1 13 | 14° 8'07 | 25°46 | 5°40 | 16°32 | 28°36 | 29°43 | 13°55 | 8°58 | 0° 1 | 12°38 | 21°44 | 22° 8 | 23° 9 | 28°19 | W 6 | |
| T 7 | 5 5 9 | 15° 8'51 | 10♁35 | 6°42 | 17°46 | 29°20 | 29°36 | 14° 0 | 9° 2 | 0° 0 | 12°37 | 21°43 | 22° 4 | 23°16 | 28°16 | T 7 | |
| F 8 | 5 9 6 | 16° 9'36 | 25°38 | 7°40 | 19° 0 | 0♁4 | 29°28 | 14° 4 | 9° 6 | 29☾59 | 12°37 | 21°42 | 22° 1 | 23°23 | 28°14 | F 8 | |
| S 9 | 5 13 3 | 17°10'23 | 10♁45 | 8°34 | 20°13 | 0°48 | 29°21 | 14° 9 | 9°10 | 29°58 | 12°36 | 21°42 | 21°58 | 23°29 | 28°11 | S 9 | |
| S 10 | 5 16 59 | 18°11'10 | 25°49 | 9°23 | 21°27 | 1°31 | 29°13 | 14°14 | 9°13 | 29°57 | 12°36 | 21°D42 | 21°55 | 23°36 | 28° 8 | S 10 | |
| M11 | 5 20 56 | 19°11'59 | 10☾39 | 10° 6 | 22°41 | 2°15 | 29° 6 | 14°18 | 9°17 | 29°56 | 12°35 | 21°42 | 21°52 | 23°43 | 28° 5 | M11 | |
| T 12 | 5 24 52 | 20°12'49 | 25° 9 | 10°43 | 23°54 | 2°59 | 28°59 | 14°23 | 9°21 | 29°54 | 12°35 | 21°42 | 21°49 | 23°49 | 28° 2 | T 12 | |
| W13 | 5 28 49 | 21°13'40 | 9♁14 | 11°13 | 25° 8 | 3°43 | 28°52 | 14°27 | 9°24 | 29°53 | 12°35 | 21°42 | 21°45 | 23°56 | 27°59 | W13 | |
| T 14 | 5 32 45 | 22°14'32 | 22°52 | 11°35 | 26°21 | 4°28 | 28°45 | 14°31 | 9°28 | 29°52 | 12°35 | 21°R42 | 21°42 | 24° 3 | 27°57 | T 14 | |
| F 15 | 5 36 42 | 23°15'24 | 6♁4 | 11°47 | 27°35 | 5°12 | 28°38 | 14°35 | 9°32 | 29°51 | 12°34 | 21°42 | 21°39 | 24° 9 | 27°54 | F 15 | |
| S 16 | 5 40 39 | 24°16'18 | 18°52 | 11°R51 | 28°48 | 5°56 | 28°32 | 14°40 | 9°35 | 29°49 | 12°34 | 21°D42 | 21°36 | 24°16 | 27°51 | S 16 | |
| S 17 | 5 44 35 | 25°17'11 | 1°Y18 | 11°43 | 0♁2 | 6°40 | 28°25 | 14°44 | 9°39 | 29°48 | 12°34 | 21°42 | 21°33 | 24°23 | 27°49 | S 17 | |
| M18 | 5 48 32 | 26°18'06 | 13°29 | 11°25 | 1°15 | 7°24 | 28°19 | 14°48 | 9°43 | 29°47 | 12°34 | 21°42 | 21°30 | 24°29 | 27°46 | M18 | |
| T 19 | 5 52 28 | 27°19'01 | 25°28 | 10°55 | 2°28 | 8° 8 | 28°13 | 14°51 | 9°46 | 29°45 | 12°33 | 21°43 | 21°26 | 24°36 | 27°43 | T 19 | |
| W20 | 5 56 25 | 28°19'57 | 7♁20 | 10°14 | 3°42 | 8°53 | 28° 7 | 14°55 | 9°50 | 29°44 | 12°33 | 21°43 | 21°23 | 24°43 | 27°41 | W20 | |
| T 21 | 6 0 21 | 29°20'54 | 19° 8 | 9°22 | 4°55 | 9°37 | 28° 1 | 14°59 | 9°53 | 29°43 | 12°33 | 21°44 | 21°20 | 24°49 | 27°38 | T 21 | |
| F 22 | 6 4 18 | 0☾21'51 | 0♁57 | 8°20 | 6° 8 | 10°21 | 27°55 | 15° 2 | 9°57 | 29°41 | 12°33 | 21°45 | 21°17 | 24°56 | 27°36 | F 22 | |
| S 23 | 6 8 14 | 1°22'49 | 12°49 | 7° 9 | 7°21 | 11° 5 | 27°49 | 15° 6 | 10° 0 | 29°40 | 12°33 | 21°46 | 21°14 | 25° 3 | 27°33 | S 23 | |
| S 24 | 6 12 11 | 2°23'48 | 24°47 | 5°51 | 8°35 | 11°50 | 27°44 | 15° 9 | 10° 4 | 29°38 | 12°33 | 21°R46 | 21°10 | 25° 9 | 27°31 | S 24 | |
| M25 | 6 16 8 | 3°24'48 | 6☾54 | 4°30 | 9°48 | 12°34 | 27°39 | 15°13 | 10° 7 | 29°37 | 12°33 | 21°45 | 21° 7 | 25°16 | 27°29 | M25 | |
| T 26 | 6 20 4 | 4°25'48 | 19°10 | 3° 7 | 11° 1 | 13°18 | 27°33 | 15°16 | 10°11 | 29°35 | 12°D33 | 21°44 | 21° 4 | 25°23 | 27°26 | T 26 | |
| W27 | 6 24 1 | 5°26'49 | 1♁26 | 1°45 | 12°14 | 14° 2 | 27°29 | 15°19 | 10°14 | 29°34 | 12°33 | 21°42 | 21° 1 | 25°29 | 27°24 | W27 | |
| T 28 | 6 27 57 | 6°27'50 | 14°16 | 0°27 | 13°27 | 14°47 | 27°24 | 15°22 | 10°18 | 29°32 | 12°33 | 21°40 | 20°58 | 25°36 | 27°22 | T 28 | |
| F 29 | 6 31 54 | 7°28'52 | 27° 8 | 29♁16 | 14°40 | 15°31 | 27°19 | 15°25 | 10°21 | 29°31 | 12°33 | 21°38 | 20°55 | 25°43 | 27°20 | F 29 | |
| S 30 | 6 35 50 | 8°29'55 | 10♁14 | 28°13 | 15°53 | 16°15 | 27°15 | 15°28 | 10°25 | 29°29 | 12°33 | 21°36 | 20°51 | 25°49 | 27°18 | S 30 | |
| S 31 | 6 39 47 | 9☾30'59 | 23♁36 | 27♁20 | 17♁5 | 17♁0 | 27♁11 | 15♁30 | 10♁28 | 29☾28 | 12♁33 | 21♁34 | 20♁48 | 25♁56 | 27♁16 | S 31 | |

Delta T = 18m18s

ASTRODIENST EPHEMERIS for the year 2570
geocentric

JANUARY 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|-------|--------|--------|-------|--------|--------|--------|-------|-------|--------|------|-----|
| M 1 | 6 43 43 | 10♁32'04 | 7♁14 | 26°R37 | 18♁18 | 17♁44 | 27°R 7 | 15♁33 | 10♁31 | 29°R26 | 12°V33 | 21°D34 | 20♁45 | 26♁ 3 | 27°R13 | M 1 | |
| T 2 | 6 47 40 | 11°33'09 | 21° 9 | 26♁ 5 | 19°31 | 18°28 | 27♁ 3 | 15°35 | 10°35 | 29♁24 | 12°33 | 21♁34 | 20°42 | 26° 9 | 27♁11 | T 2 | |
| W 3 | 6 51 37 | 12°34'15 | 5♁20 | 25°44 | 20°44 | 19°13 | 26°59 | 15°38 | 10°38 | 29°23 | 12°33 | 21°35 | 20°39 | 26°16 | 27°10 | W 3 | |
| T 4 | 6 55 33 | 13°35'22 | 19°46 | 25°33 | 21°56 | 19°57 | 26°56 | 15°40 | 10°41 | 29°21 | 12°34 | 21°36 | 20°36 | 26°22 | 27° 8 | T 4 | |
| F 5 | 6 59 30 | 14°36'30 | 4♁24 | 25°D32 | 23° 9 | 20°42 | 26°52 | 15°42 | 10°45 | 29°20 | 12°34 | 21°38 | 20°32 | 26°29 | 27° 6 | F 5 | |
| S 6 | 7 3 26 | 15°37'38 | 19° 9 | 25°40 | 24°21 | 21°26 | 26°49 | 15°44 | 10°48 | 29°18 | 12°34 | 21°R38 | 20°29 | 26°36 | 27° 4 | S 6 | |
| S 7 | 7 7 23 | 16°38'46 | 3♁54 | 25°57 | 25°34 | 22°10 | 26°46 | 15°46 | 10°51 | 29°16 | 12°34 | 21°38 | 20°26 | 26°42 | 27° 2 | S 7 | |
| M 8 | 7 11 19 | 17°39'55 | 18°32 | 26°22 | 26°46 | 22°55 | 26°44 | 15°48 | 10°54 | 29°15 | 12°35 | 21°36 | 20°23 | 26°49 | 27° 1 | M 8 | |
| T 9 | 7 15 16 | 18°41'04 | 2♁57 | 26°53 | 27°58 | 23°39 | 26°41 | 15°50 | 10°57 | 29°13 | 12°35 | 21°33 | 20°20 | 26°56 | 26°59 | T 9 | |
| W10 | 7 19 13 | 19°42'13 | 17° 3 | 27°30 | 29°11 | 24°23 | 26°39 | 15°52 | 11° 1 | 29°11 | 12°35 | 21°29 | 20°16 | 27° 2 | 26°57 | W10 | |
| T 11 | 7 23 9 | 20°43'21 | 0♁46 | 28°14 | 0♁23 | 25° 8 | 26°37 | 15°53 | 11° 4 | 29°10 | 12°36 | 21°24 | 20°13 | 27° 9 | 26°56 | T 11 | |
| F 12 | 7 27 6 | 21°44'30 | 14° 4 | 29° 2 | 1°35 | 25°52 | 26°35 | 15°55 | 11° 7 | 29° 8 | 12°36 | 21°19 | 20°10 | 27°16 | 26°54 | F 12 | |
| S 13 | 7 31 2 | 22°45'38 | 26°57 | 29°54 | 2°47 | 26°37 | 26°33 | 15°56 | 11°10 | 29° 6 | 12°36 | 21°15 | 20° 7 | 27°22 | 26°53 | S 13 | |
| S 14 | 7 34 59 | 23°46'46 | 9°V28 | 0♁51 | 3°59 | 27°21 | 26°32 | 15°57 | 11°13 | 29° 5 | 12°37 | 21°13 | 20° 4 | 27°29 | 26°52 | S 14 | |
| M15 | 7 38 55 | 24°47'54 | 21°41 | 1°50 | 5°10 | 28° 5 | 26°31 | 15°58 | 11°16 | 29° 3 | 12°37 | 21°D12 | 20° 1 | 27°36 | 26°50 | M15 | |
| T 16 | 7 42 52 | 25°49'02 | 3♁41 | 2°54 | 6°22 | 28°50 | 26°30 | 15°59 | 11°19 | 29° 1 | 12°38 | 21°12 | 19°57 | 27°42 | 26°49 | T 16 | |
| W17 | 7 46 48 | 26°50'09 | 15°32 | 3°59 | 7°34 | 29°34 | 26°29 | 16° 0 | 11°21 | 29° 0 | 12°38 | 21°13 | 19°54 | 27°49 | 26°48 | W17 | |
| T 18 | 7 50 45 | 27°51'16 | 27°20 | 5° 8 | 8°45 | 0°V18 | 26°28 | 16° 1 | 11°24 | 28°58 | 12°39 | 21°15 | 19°51 | 27°56 | 26°47 | T 18 | |
| F 19 | 7 54 42 | 28°52'22 | 9°II 9 | 6°18 | 9°57 | 1° 3 | 26°28 | 16° 2 | 11°27 | 28°56 | 12°39 | 21°17 | 19°48 | 28° 2 | 26°46 | F 19 | |
| S 20 | 7 58 38 | 29°53'28 | 21° 5 | 7°31 | 11° 8 | 1°47 | 26°D28 | 16° 2 | 11°30 | 28°55 | 12°40 | 21°R18 | 19°45 | 28° 9 | 26°45 | S 20 | |
| S 21 | 8 2 35 | 0♁54'34 | 3♁10 | 8°45 | 12°19 | 2°31 | 26°28 | 16° 3 | 11°33 | 28°53 | 12°40 | 21°17 | 19°42 | 28°16 | 26°44 | S 21 | |
| M22 | 8 6 31 | 1°55'39 | 15°27 | 10° 1 | 13°31 | 3°15 | 26°28 | 16° 3 | 11°35 | 28°51 | 12°41 | 21°14 | 19°38 | 28°22 | 26°43 | M22 | |
| T 23 | 8 10 28 | 2°56'44 | 27°59 | 11°19 | 14°42 | 4° 0 | 26°29 | 16° 3 | 11°38 | 28°49 | 12°42 | 21° 9 | 19°35 | 28°29 | 26°42 | T 23 | |
| W24 | 8 14 24 | 3°57'48 | 10♁46 | 12°37 | 15°52 | 4°44 | 26°29 | 16° 4 | 11°41 | 28°48 | 12°42 | 21° 3 | 19°32 | 28°36 | 26°42 | W24 | |
| T 25 | 8 18 21 | 4°58'52 | 23°48 | 13°58 | 17° 3 | 5°28 | 26°30 | 16°R 4 | 11°43 | 28°46 | 12°43 | 20°55 | 19°29 | 28°42 | 26°41 | T 25 | |
| F 26 | 8 22 17 | 5°59'55 | 7°II 3 | 15°19 | 18°14 | 6°12 | 26°31 | 16° 4 | 11°46 | 28°44 | 12°44 | 20°47 | 19°26 | 28°49 | 26°40 | F 26 | |
| S 27 | 8 26 14 | 7° 0'58 | 20°31 | 16°41 | 19°24 | 6°57 | 26°32 | 16° 3 | 11°48 | 28°43 | 12°44 | 20°39 | 19°22 | 28°56 | 26°40 | S 27 | |
| S 28 | 8 30 11 | 8° 2'01 | 4♁10 | 18° 4 | 20°35 | 7°41 | 26°34 | 16° 3 | 11°51 | 28°41 | 12°45 | 20°33 | 19°19 | 29° 2 | 26°39 | S 28 | |
| M29 | 8 34 7 | 9° 3'03 | 17°57 | 19°29 | 21°45 | 8°25 | 26°35 | 16° 3 | 11°53 | 28°39 | 12°46 | 20°28 | 19°16 | 29° 9 | 26°39 | M29 | |
| T 30 | 8 38 4 | 10° 4'06 | 1♁53 | 20°54 | 22°55 | 9° 9 | 26°37 | 16° 2 | 11°56 | 28°38 | 12°47 | 20°26 | 19°13 | 29°16 | 26°38 | T 30 | |
| W31 | 8 42 0 | 11♁ 5'08 | 15♁56 | 22♁20 | 24♁ 5 | 9°V53 | 26♁39 | 16♁ 2 | 11♁58 | 28♁36 | 12°V47 | 20°D26 | 19♁10 | 29♁22 | 26♁38 | W31 | |

Delta T = 18m18s

FEBRUARY 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|---------|-------|--------|--------|-------|--------|-------|--------|--------|--------|-------|---------|--------|------|-----|
| T 1 | 8 45 57 | 12♁ 6'09 | 0♁ 5 | 23♁46 | 25♁15 | 10°V37 | 26♁42 | 16°R 1 | 12♁ 0 | 28°R34 | 12°V48 | 20♁27 | 19♁ 7 | 29♁29 | 26°R38 | T 1 | |
| F 2 | 8 49 53 | 13° 7'10 | 14°19 | 25°14 | 26°25 | 11°21 | 26°44 | 16° 0 | 12° 3 | 28♁33 | 12°49 | 20°R28 | 19° 3 | 29°36 | 26♁38 | F 2 | |
| S 3 | 8 53 50 | 14° 8'11 | 28°36 | 26°42 | 27°35 | 12° 5 | 26°47 | 15°59 | 12° 5 | 28°31 | 12°50 | 20°28 | 19° 0 | 29°42 | 26°38 | S 3 | |
| S 4 | 8 57 46 | 15° 9'12 | 12♁53 | 28°11 | 28°44 | 12°49 | 26°50 | 15°58 | 12° 7 | 28°30 | 12°51 | 20°26 | 18°57 | 29°49 | 26°D37 | S 4 | |
| M 5 | 9 1 43 | 16°10'11 | 27° 6 | 29°41 | 29°54 | 13°33 | 26°53 | 15°57 | 12° 9 | 28°28 | 12°52 | 20°21 | 18°54 | 29°55 | 26°37 | M 5 | |
| T 6 | 9 5 40 | 17°11'10 | 11♁11 | 1♁11 | 1°V 3 | 14°17 | 26°56 | 15°56 | 12°11 | 28°26 | 12°52 | 20°14 | 18°51 | 0°II 2 | 26°38 | T 6 | |
| W 7 | 9 9 36 | 18°12'08 | 25° 3 | 2°43 | 2°12 | 15° 1 | 27° 0 | 15°54 | 12°13 | 28°25 | 12°53 | 20° 4 | 18°48 | 0° 9 | 26°38 | W 7 | |
| T 8 | 9 13 33 | 19°13'05 | 8♁37 | 4°14 | 3°21 | 15°45 | 27° 3 | 15°53 | 12°15 | 28°23 | 12°54 | 19°53 | 18°44 | 0°15 | 26°38 | T 8 | |
| F 9 | 9 17 29 | 20°14'01 | 21°51 | 5°47 | 4°29 | 16°29 | 27° 7 | 15°51 | 12°17 | 28°22 | 12°55 | 19°43 | 18°41 | 0°22 | 26°38 | F 9 | |
| S 10 | 9 21 26 | 21°14'56 | 4°V43 | 7°20 | 5°38 | 17°13 | 27°11 | 15°50 | 12°19 | 28°20 | 12°56 | 19°33 | 18°38 | 0°29 | 26°39 | S 10 | |
| S 11 | 9 25 22 | 22°15'49 | 17°16 | 8°54 | 6°46 | 17°57 | 27°15 | 15°48 | 12°21 | 28°19 | 12°57 | 19°25 | 18°35 | 0°35 | 26°39 | S 11 | |
| M12 | 9 29 19 | 23°16'42 | 29°30 | 10°29 | 7°54 | 18°40 | 27°20 | 15°46 | 12°23 | 28°17 | 12°58 | 19°20 | 18°32 | 0°42 | 26°39 | M12 | |
| T 13 | 9 33 15 | 24°17'33 | 11♁31 | 12° 4 | 9° 2 | 19°24 | 27°24 | 15°44 | 12°25 | 28°16 | 12°59 | 19°17 | 18°28 | 0°49 | 26°40 | T 13 | |
| W14 | 9 37 12 | 25°18'22 | 23°23 | 13°40 | 10°10 | 20° 8 | 27°29 | 15°42 | 12°26 | 28°14 | 13° 0 | 19°D16 | 18°25 | 0°55 | 26°40 | W14 | |
| T 15 | 9 41 9 | 26°19'11 | 5°II 11 | 15°17 | 11°17 | 20°52 | 27°34 | 15°40 | 12°28 | 28°13 | 13° 1 | 19°16 | 18°22 | 1° 2 | 26°41 | T 15 | |
| F 16 | 9 45 5 | 27°19'58 | 17° 0 | 16°55 | 12°25 | 21°35 | 27°39 | 15°37 | 12°30 | 28°11 | 13° 3 | 19°R16 | 18°19 | 1° 9 | 26°42 | F 16 | |
| S 17 | 9 49 2 | 28°20'43 | 28°57 | 18°33 | 13°32 | 22°19 | 27°44 | 15°35 | 12°31 | 28°10 | 13° 4 | 19°16 | 18°16 | 1°15 | 26°43 | S 17 | |
| S 18 | 9 52 58 | 29°21'27 | 11♁ 6 | 20°12 | 14°39 | 23° 3 | 27°50 | 15°33 | 12°33 | 28° 8 | 13° 5 | 19°14 | 18°13 | 1°22 | 26°43 | S 18 | |
| M19 | 9 56 55 | 0♁22'10 | 23°31 | 21°52 | 15°45 | 23°46 | 27°56 | 15°30 | 12°34 | 28° 7 | 13° 6 | 19° 9 | 18° 9 | 1°29 | 26°44 | M19 | |
| T 20 | 10 0 51 | 1°22'51 | 6♁15 | 23°33 | 16°52 | 24°30 | 28° 1 | 15°27 | 12°35 | 28° 6 | 13° 7 | 19° 1 | 18° 6 | 1°35 | 26°45 | T 20 | |
| W21 | 10 4 48 | 2°23'30 | 19°20 | 25°15 | 17°58 | 25°14 | 28° 7 | 15°25 | 12°37 | 28° 4 | 13° 8 | 18°51 | 18° 3 | 1°42 | 26°46 | W21 | |
| T 22 | 10 8 44 | 3°24'09 | 2♁44 | 26°57 | 19° 4 | 25°57 | 28°14 | 15°22 | 12°38 | 28° 3 | 13° 9 | 18°40 | 18° 0 | 1°49 | 26°47 | T 22 | |
| F 23 | 10 12 41 | 4°24'45 | 16°25 | 28°40 | 20° 9 | 26°40 | 28°20 | 15°19 | 12°39 | 28° 2 | 13°11 | 18°27 | 17°57 | 1°55 | 26°49 | F 23 | |
| S 24 | 10 16 37 | 5°25'21 | 0♁21 | 0♁25 | 21°15 | 27°24 | 28°26 | 15°16 | 12°40 | 28° 0 | 13°12 | 18°15 | 17°54 | 2° 2 | 26°50 | S 24 | |
| S 25 | 10 20 34 | 6°25'55 | 14°25 | 2°10 | 22°20 | 28° 7 | 28°33 | 15°13 | 12°42 | 27°59 | 13°13 | 18° 5 | 17°50 | 2° 8 | 26°51 | S 25 | |
| M26 | 10 24 31 | 7°26'28 | 28°35 | 3°56 | 23°24 | 28°51 | 28°40 | 15°10 | 12°43 | 27°58 | 13°14 | 17°58 | 17°47 | 2°15 | 26°52 | M26 | |
| T 27 | 10 28 27 | 8°27'00 | 12♁46 | 5°42 | 24°29 | 29°34 | 28°47 | 15° 7 | 12°44 | 27°57 | 13°15 | 17°53 | 17°44 | 2°22 | 26°54 | T 27 | |
| W28 | 10 32 24 | 9♁27'30 | 26♁55 | 7♁30 | 25°V33 | 0♁17 | 28♁54 | 15♁ 3 | 12♁45 | 27♁55 | 13°V17 | 17♁51 | 17♁41 | 2°II 28 | 26♁55 | W28 | |

Delta T = 18m18s

ASTRODIENST EPHEMERIS for the year 2570
geocentric

MARCH 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|------|-------|------|
| T 1 | 10 36 20 | 10♌28'00 | 11♌ 2 | 9♌19 | 26♍37 | 1♌ 1 | 29♌ 1 | 15°R 0 | 12♌46 | 27°R54 | 13♍18 | 17°R51 | 17♌38 | 2♌35 | 26♌57 | T 1 |
| F 2 | 10 40 17 | 11°28'28 | 25° 4 | 11° 8 | 27°41 | 1°44 | 29° 9 | 14♌56 | 12°47 | 27♌53 | 13°19 | 17♌51 | 17°34 | 2°42 | 26°58 | F 2 |
| S 3 | 10 44 13 | 12°28'55 | 9♌ 2 | 12°58 | 28°44 | 2°27 | 29°16 | 14°53 | 12°47 | 27°52 | 13°21 | 17°50 | 17°31 | 2°48 | 27° 0 | S 3 |
| S 4 | 10 48 10 | 13°29'21 | 22°54 | 14°50 | 29°47 | 3°10 | 29°24 | 14°49 | 12°48 | 27°51 | 13°22 | 17°46 | 17°28 | 2°55 | 27° 2 | S 4 |
| M 5 | 10 52 6 | 14°29'45 | 6♌41 | 16°41 | 0♌49 | 3°53 | 29°32 | 14°45 | 12°49 | 27°50 | 13°23 | 17°40 | 17°25 | 3° 2 | 27° 3 | M 5 |
| T 6 | 10 56 3 | 15°30'08 | 20°19 | 18°34 | 1°51 | 4°36 | 29°40 | 14°42 | 12°50 | 27°49 | 13°25 | 17°31 | 17°22 | 3° 8 | 27° 5 | T 6 |
| W 7 | 11 0 0 | 16°30'29 | 3♌46 | 20°27 | 2°53 | 5°20 | 29°48 | 14°38 | 12°50 | 27°48 | 13°26 | 17°19 | 17°19 | 3°15 | 27° 7 | W 7 |
| T 8 | 11 3 56 | 17°30'49 | 17° 1 | 22°21 | 3°55 | 6° 3 | 29°56 | 14°34 | 12°51 | 27°47 | 13°27 | 17° 5 | 17°15 | 3°22 | 27° 9 | T 8 |
| F 9 | 11 7 53 | 18°31'07 | 29°59 | 24°16 | 4°56 | 6°46 | 0♌ 5 | 14°30 | 12°51 | 27°46 | 13°29 | 16°52 | 17°12 | 3°28 | 27°11 | F 9 |
| S 10 | 11 11 49 | 19°31'23 | 12♍42 | 26°10 | 5°57 | 7°29 | 0°13 | 14°26 | 12°52 | 27°45 | 13°30 | 16°39 | 17° 9 | 3°35 | 27°13 | S 10 |
| S 11 | 11 15 46 | 20°31'37 | 25° 9 | 28° 5 | 6°57 | 8°11 | 0°22 | 14°22 | 12°52 | 27°44 | 13°31 | 16°28 | 17° 6 | 3°42 | 27°15 | S 11 |
| M12 | 11 19 42 | 21°31'50 | 7♌20 | 0♍ 0 | 7°57 | 8°54 | 0°31 | 14°18 | 12°52 | 27°43 | 13°33 | 16°20 | 17° 3 | 3°48 | 27°17 | M12 |
| T 13 | 11 23 39 | 22°32'00 | 19°20 | 1°55 | 8°56 | 9°37 | 0°40 | 14°14 | 12°53 | 27°42 | 13°34 | 16°15 | 16°59 | 3°55 | 27°19 | T 13 |
| W14 | 11 27 35 | 23°32'09 | 1♌11 | 3°49 | 9°55 | 10°20 | 0°49 | 14° 9 | 12°53 | 27°41 | 13°36 | 16°13 | 16°56 | 4° 2 | 27°21 | W14 |
| T 15 | 11 31 32 | 24°32'15 | 12°58 | 5°43 | 10°54 | 11° 3 | 0°58 | 14° 5 | 12°53 | 27°41 | 13°37 | 16°D12 | 16°53 | 4° 8 | 27°24 | T 15 |
| F 16 | 11 35 29 | 25°32'20 | 24°47 | 7°35 | 11°51 | 11°46 | 1° 7 | 14° 1 | 12°53 | 27°40 | 13°38 | 16°R12 | 16°50 | 4°15 | 27°26 | F 16 |
| S 17 | 11 39 25 | 26°32'22 | 6♌43 | 9°26 | 12°49 | 12°28 | 1°17 | 13°57 | 12°53 | 27°39 | 13°40 | 16°12 | 16°47 | 4°21 | 27°28 | S 17 |
| S 18 | 11 43 22 | 27°32'22 | 18°53 | 11°15 | 13°46 | 13°11 | 1°27 | 13°52 | 12°R53 | 27°39 | 13°41 | 16°10 | 16°44 | 4°28 | 27°31 | S 18 |
| M19 | 11 47 18 | 28°32'20 | 1♌20 | 13° 1 | 14°42 | 13°54 | 1°36 | 13°48 | 12°53 | 27°38 | 13°43 | 16° 6 | 16°40 | 4°35 | 27°33 | M19 |
| T 20 | 11 51 15 | 29°32'16 | 14° 8 | 14°45 | 15°38 | 14°36 | 1°46 | 13°43 | 12°53 | 27°37 | 13°44 | 15°59 | 16°37 | 4°41 | 27°36 | T 20 |
| W21 | 11 55 11 | 0♍32'10 | 27°22 | 16°25 | 16°33 | 15°19 | 1°56 | 13°39 | 12°53 | 27°37 | 13°46 | 15°50 | 16°34 | 4°48 | 27°38 | W21 |
| T 22 | 11 59 8 | 1°32'02 | 11♌ 0 | 18° 2 | 17°28 | 16° 1 | 2° 6 | 13°34 | 12°53 | 27°36 | 13°47 | 15°39 | 16°31 | 4°55 | 27°41 | T 22 |
| F 23 | 12 3 4 | 2°31'52 | 25° 1 | 19°34 | 18°22 | 16°44 | 2°16 | 13°30 | 12°52 | 27°36 | 13°48 | 15°27 | 16°28 | 5° 1 | 27°44 | F 23 |
| S 24 | 12 7 1 | 3°31'39 | 9♌20 | 21° 1 | 19°15 | 17°26 | 2°27 | 13°25 | 12°52 | 27°35 | 13°50 | 15°16 | 16°25 | 5° 8 | 27°46 | S 24 |
| S 25 | 12 10 58 | 4°31'25 | 23°52 | 22°24 | 20° 7 | 18° 9 | 2°37 | 13°20 | 12°52 | 27°35 | 13°51 | 15° 7 | 16°21 | 5°15 | 27°49 | S 25 |
| M26 | 12 14 54 | 5°31'09 | 8♌28 | 23°40 | 20°59 | 18°51 | 2°47 | 13°16 | 12°51 | 27°34 | 13°53 | 15° 0 | 16°18 | 5°21 | 27°52 | M26 |
| T 27 | 12 18 51 | 6°30'52 | 23° 4 | 24°50 | 21°50 | 19°33 | 2°58 | 13°11 | 12°51 | 27°34 | 13°54 | 14°55 | 16°15 | 5°28 | 27°55 | T 27 |
| W28 | 12 22 47 | 7°30'32 | 7♌32 | 25°53 | 22°41 | 20°15 | 3° 9 | 13° 6 | 12°50 | 27°33 | 13°56 | 14°54 | 16°12 | 5°35 | 27°58 | W28 |
| T 29 | 12 26 44 | 8°30'11 | 21°50 | 26°50 | 23°30 | 20°58 | 3°20 | 13° 2 | 12°50 | 27°33 | 13°57 | 14°D54 | 16° 9 | 5°41 | 28° 1 | T 29 |
| F 30 | 12 30 40 | 9°29'49 | 5♌56 | 27°39 | 24°19 | 21°40 | 3°30 | 12°57 | 12°49 | 27°33 | 13°59 | 14°R54 | 16° 5 | 5°48 | 28° 4 | F 30 |
| S 31 | 12 34 37 | 10♍29'24 | 19♌48 | 28♍21 | 25♌ 7 | 22♌22 | 3♌41 | 12♌52 | 12♌48 | 27♌32 | 14♍ 0 | 14♌54 | 16♌ 2 | 5♌55 | 28♌ 7 | S 31 |

Delta T = 18m18s

APRIL 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|------|--------|--------|--------|-------|--------|-------|------|-------|------|
| S 1 | 12 38 33 | 11♍28'58 | 3♌28 | 28♍55 | 25♌54 | 23♌ 4 | 3♌52 | 12°R48 | 12°R48 | 27°R32 | 14♍ 2 | 14°R52 | 15♌59 | 6♌ 1 | 28♌10 | S 1 |
| M 2 | 12 42 30 | 12°28'31 | 16°55 | 29°21 | 26°40 | 23°46 | 4° 4 | 12♌43 | 12♌47 | 27♌32 | 14° 3 | 14♌47 | 15°56 | 6° 8 | 28°13 | M 2 |
| T 3 | 12 46 27 | 13°28'01 | 0♌11 | 29°40 | 27°26 | 24°28 | 4°15 | 12°38 | 12°46 | 27°32 | 14° 5 | 14°40 | 15°53 | 6°14 | 28°16 | T 3 |
| W 4 | 12 50 23 | 14°27'30 | 13°15 | 29°50 | 28°10 | 25°10 | 4°26 | 12°33 | 12°45 | 27°32 | 14° 6 | 14°31 | 15°50 | 6°21 | 28°19 | W 4 |
| T 5 | 12 54 20 | 15°26'56 | 26° 7 | 29°R53 | 28°53 | 25°52 | 4°38 | 12°29 | 12°44 | 27°32 | 14° 8 | 14°20 | 15°46 | 6°28 | 28°22 | T 5 |
| F 6 | 12 58 16 | 16°26'21 | 8♍46 | 29°49 | 29°36 | 26°34 | 4°49 | 12°24 | 12°43 | 27°31 | 14° 9 | 14° 9 | 15°43 | 6°34 | 28°26 | F 6 |
| S 7 | 13 2 13 | 17°25'44 | 21°13 | 29°37 | 0♌17 | 27°16 | 5° 1 | 12°19 | 12°42 | 27°31 | 14°11 | 13°59 | 15°40 | 6°41 | 28°29 | S 7 |
| S 8 | 13 6 9 | 18°25'05 | 3♌27 | 29°18 | 0°57 | 27°58 | 5°13 | 12°15 | 12°41 | 27°D31 | 14°12 | 13°50 | 15°37 | 6°48 | 28°32 | S 8 |
| M 9 | 13 10 6 | 19°24'23 | 15°31 | 28°53 | 1°36 | 28°40 | 5°24 | 12°10 | 12°40 | 27°31 | 14°14 | 13°44 | 15°34 | 6°54 | 28°36 | M 9 |
| T 10 | 13 14 2 | 20°23'40 | 27°26 | 28°23 | 2°13 | 29°22 | 5°36 | 12° 5 | 12°39 | 27°32 | 14°15 | 13°40 | 15°31 | 7° 1 | 28°39 | T 10 |
| W11 | 13 17 59 | 21°22'55 | 9♌15 | 27°47 | 2°49 | 0♌ 3 | 5°48 | 12° 1 | 12°38 | 27°32 | 14°16 | 13°D39 | 15°27 | 7° 8 | 28°42 | W11 |
| T 12 | 13 21 55 | 22°22'07 | 21° 2 | 27° 7 | 3°24 | 0°45 | 6° 0 | 11°56 | 12°36 | 27°32 | 14°18 | 13°39 | 15°24 | 7°14 | 28°46 | T 12 |
| F 13 | 13 25 52 | 23°21'17 | 2♌50 | 26°24 | 3°58 | 1°27 | 6°12 | 11°51 | 12°35 | 27°32 | 14°19 | 13°40 | 15°21 | 7°21 | 28°49 | F 13 |
| S 14 | 13 29 49 | 24°20'25 | 14°46 | 25°38 | 4°30 | 2° 8 | 6°24 | 11°47 | 12°34 | 27°32 | 14°21 | 13°41 | 15°18 | 7°28 | 28°53 | S 14 |
| S 15 | 13 33 45 | 25°19'31 | 26°53 | 24°51 | 5° 1 | 2°50 | 6°37 | 11°42 | 12°32 | 27°32 | 14°22 | 13°R42 | 15°15 | 7°34 | 28°56 | S 15 |
| M16 | 13 37 42 | 26°18'34 | 9♌18 | 24° 3 | 5°30 | 3°31 | 6°49 | 11°38 | 12°31 | 27°33 | 14°24 | 13°40 | 15°11 | 7°41 | 29° 0 | M16 |
| T 17 | 13 41 38 | 27°17'35 | 22° 6 | 23°16 | 5°58 | 4°13 | 7° 1 | 11°33 | 12°29 | 27°33 | 14°25 | 13°38 | 15° 8 | 7°47 | 29° 4 | T 17 |
| W18 | 13 45 35 | 28°16'33 | 5♌18 | 22°30 | 6°24 | 4°54 | 7°14 | 11°29 | 12°28 | 27°33 | 14°27 | 13°33 | 15° 5 | 7°54 | 29° 7 | W18 |
| T 19 | 13 49 31 | 29°15'30 | 18°59 | 21°46 | 6°48 | 5°36 | 7°26 | 11°24 | 12°26 | 27°34 | 14°28 | 13°27 | 15° 2 | 8° 1 | 29°11 | T 19 |
| F 20 | 13 53 28 | 0♌14'24 | 3♌ 6 | 21° 4 | 7°10 | 6°17 | 7°39 | 11°20 | 12°25 | 27°34 | 14°30 | 13°20 | 14°59 | 8° 7 | 29°15 | F 20 |
| S 21 | 13 57 24 | 1°13'16 | 17°37 | 20°27 | 7°31 | 6°58 | 7°52 | 11°16 | 12°23 | 27°34 | 14°31 | 13°13 | 14°56 | 8°14 | 29°18 | S 21 |
| S 22 | 14 1 21 | 2°12'06 | 2♌26 | 19°53 | 7°49 | 7°40 | 8° 4 | 11°12 | 12°21 | 27°35 | 14°32 | 13° 8 | 14°52 | 8°21 | 29°22 | S 22 |
| M23 | 14 5 18 | 3°10'54 | 17°24 | 19°23 | 8° 6 | 8°21 | 8°17 | 11° 7 | 12°20 | 27°35 | 14°34 | 13° 4 | 14°49 | 8°27 | 29°26 | M23 |
| T 24 | 14 9 14 | 4° 9'41 | 2♌23 | 18°58 | 8°20 | 9° 2 | 8°30 | 11° 3 | 12°18 | 27°36 | 14°35 | 13° 1 | 14°46 | 8°34 | 29°30 | T 24 |
| W25 | 14 13 11 | 5° 8'25 | 17°15 | 18°38 | 8°33 | 9°43 | 8°43 | 10°59 | 12°16 | 27°37 | 14°37 | 13°D 1 | 14°43 | 8°41 | 29°33 | W25 |
| T 26 | 14 17 7 | 6° 7'08 | 1♌52 | 18°24 | 8°43 | 10°25 | 8°56 | 10°55 | 12°14 | 27°37 | 14°38 | 13° 2 | 14°40 | 8°47 | 29°37 | T 26 |
| F 27 | 14 21 4 | 7° 5'49 | 16°12 | 18°14 | 8°51 | 11° 6 | 9° 9 | 10°51 | 12°12 | 27°38 | 14°39 | 13° 3 | 14°36 | 8°54 | 29°41 | F 27 |
| S 28 | 14 25 0 | 8° 4'29 | 0♌12 | 18°D10 | 8°57 | 11°47 | 9°22 | 10°47 | 12°11 | 27°38 | 14°41 | 13° 5 | 14°33 | 9° 1 | 29°45 | S 28 |
| S 29 | 14 28 57 | 9° 3'07 | 13°52 | 18°10 | 9° 1 | 12°28 | 9°35 | 10°43 | 12° 9 | 27°39 | 14°42 | 13°R 5 | 14°30 | 9° 7 | 29°49 | S 29 |
| M30 | 14 32 53 | 10♌ 1'43 | 27♌13 | 18♍16 | 9°R 2 | 13♌ 9 | 9♌48 | 10♌39 | 12♌ 7 | 27♌30 | 14♍44 | 13♌ 4 | 14♌27 | 9♌14 | 29♌53 | M30 |

Delta T = 18m19s

ASTRODIENST EPHEMERIS for the year 2570
geocentric

MAY 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|--------|-------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|-----|
| T 1 | 14 36 50 | 11♈ 0°18 | 10♋16 | 18♃27 | 9♂R 1 | 13♅50 | 10♄I 1 | 10°R36 | 12°R 5 | 27♁41 | 14♃45 | 13°R 1 | 14♌24 | 9♅21 | 29♄57 | T 1 | | | | | | | |
| W 2 | 14 40 47 | 11°58'51 | 23° 4 | 18°43 | 8♅57 | 14°31 | 10°14 | 10♄32 | 12♌3 | 27°41 | 14°46 | 12♌57 | 14°21 | 9°27 | 0♅I 1 | W 2 | | | | | | | |
| T 3 | 14 44 43 | 12°57'22 | 5♃37 | 19° 3 | 8°52 | 15°12 | 10°27 | 10°28 | 12° 1 | 27°42 | 14°48 | 12°52 | 14°17 | 9°34 | 0° 5 | T 3 | | | | | | | |
| F 4 | 14 48 40 | 13°55'51 | 17°59 | 19°27 | 8°43 | 15°52 | 10°41 | 10°25 | 11°59 | 27°43 | 14°49 | 12°47 | 14°14 | 9°40 | 0° 9 | F 4 | | | | | | | |
| S 5 | 14 52 36 | 14°54'19 | 0♃10 | 19°57 | 8°32 | 16°33 | 10°54 | 10°21 | 11°56 | 27°44 | 14°50 | 12°42 | 14°11 | 9°47 | 0°13 | S 5 | | | | | | | |
| S 6 | 14 56 33 | 15°52'46 | 12°13 | 20°30 | 8°19 | 17°14 | 11° 7 | 10°18 | 11°54 | 27°45 | 14°52 | 12°38 | 14° 8 | 9°54 | 0°17 | S 6 | | | | | | | |
| M 7 | 15 0 29 | 16°51'10 | 24° 8 | 21° 7 | 8° 4 | 17°55 | 11°21 | 10°15 | 11°52 | 27°46 | 14°53 | 12°36 | 14° 5 | 10° 0 | 0°21 | M 7 | | | | | | | |
| T 8 | 15 4 26 | 17°49'33 | 5♅58 | 21°48 | 7°45 | 18°36 | 11°34 | 10°11 | 11°50 | 27°47 | 14°54 | 12°34 | 14° 2 | 10° 7 | 0°25 | T 8 | | | | | | | |
| W 9 | 15 8 22 | 18°47'53 | 17°45 | 22°32 | 7°25 | 19°16 | 11°48 | 10° 8 | 11°48 | 27°48 | 14°55 | 12°D34 | 13°58 | 10°14 | 0°29 | W 9 | | | | | | | |
| T 10 | 15 12 19 | 19°46'12 | 29°31 | 23°21 | 7° 3 | 19°57 | 12° 1 | 10° 5 | 11°45 | 27°49 | 14°57 | 12°35 | 13°55 | 10°20 | 0°33 | T 10 | | | | | | | |
| F 11 | 15 16 16 | 20°44'29 | 11♁21 | 24°12 | 6°38 | 20°38 | 12°15 | 10° 2 | 11°43 | 27°50 | 14°58 | 12°37 | 13°52 | 10°27 | 0°37 | F 11 | | | | | | | |
| S 12 | 15 20 12 | 21°42'44 | 23°18 | 25° 7 | 6°11 | 21°18 | 12°29 | 9°59 | 11°41 | 27°51 | 14°59 | 12°38 | 13°49 | 10°34 | 0°41 | S 12 | | | | | | | |
| S 13 | 15 24 9 | 22°40'57 | 5♁26 | 26° 5 | 5°42 | 21°59 | 12°42 | 9°56 | 11°39 | 27°52 | 15° 0 | 12°40 | 13°46 | 10°40 | 0°45 | S 13 | | | | | | | |
| M14 | 15 28 5 | 23°39'08 | 17°50 | 27° 5 | 5°11 | 22°39 | 12°56 | 9°54 | 11°36 | 27°53 | 15° 2 | 12°R40 | 13°42 | 10°47 | 0°49 | M14 | | | | | | | |
| T 15 | 15 32 2 | 24°37'17 | 0♃34 | 28° 9 | 4°39 | 23°20 | 13°10 | 9°51 | 11°34 | 27°54 | 15° 3 | 12°40 | 13°39 | 10°54 | 0°53 | T 15 | | | | | | | |
| W16 | 15 35 58 | 25°35'24 | 13°42 | 29°15 | 4° 5 | 24° 0 | 13°23 | 9°48 | 11°32 | 27°56 | 15° 4 | 12°40 | 13°36 | 11° 0 | 0°57 | W16 | | | | | | | |
| T 17 | 15 39 55 | 26°33'30 | 27°16 | 0♃24 | 3°30 | 24°40 | 13°37 | 9°46 | 11°29 | 27°57 | 15° 5 | 12°38 | 13°33 | 11° 7 | 1° 2 | T 17 | | | | | | | |
| F 18 | 15 43 51 | 27°31'33 | 11♁18 | 1°36 | 2°54 | 25°21 | 13°51 | 9°43 | 11°27 | 27°58 | 15° 6 | 12°36 | 13°30 | 11°13 | 1° 6 | F 18 | | | | | | | |
| S 19 | 15 47 48 | 28°29'34 | 25°46 | 2°50 | 2°18 | 26° 1 | 14° 5 | 9°41 | 11°24 | 27°59 | 15° 8 | 12°35 | 13°27 | 11°20 | 1°10 | S 19 | | | | | | | |
| S 20 | 15 51 45 | 29°27'34 | 10♃37 | 4° 7 | 1°40 | 26°41 | 14°18 | 9°39 | 11°22 | 28° 1 | 15° 9 | 12°33 | 13°23 | 11°27 | 1°14 | S 20 | | | | | | | |
| M21 | 15 55 41 | 0♅25'32 | 25°42 | 5°26 | 1° 2 | 27°22 | 14°32 | 9°37 | 11°19 | 28° 2 | 15°10 | 12°32 | 13°20 | 11°33 | 1°18 | M21 | | | | | | | |
| T 22 | 15 59 38 | 1°23'29 | 10♌53 | 6°47 | 0°25 | 28° 2 | 14°46 | 9°35 | 11°17 | 28° 4 | 15°11 | 12°D32 | 13°17 | 11°40 | 1°22 | T 22 | | | | | | | |
| W23 | 16 3 34 | 2°21'24 | 26° 1 | 8°11 | 29♃47 | 28°42 | 15° 0 | 9°33 | 11°15 | 28° 5 | 15°12 | 12°32 | 13°14 | 11°47 | 1°26 | W23 | | | | | | | |
| T 24 | 16 7 31 | 3°19'18 | 10♄57 | 9°37 | 29°10 | 29°22 | 15°14 | 9°31 | 11°12 | 28° 6 | 15°13 | 12°32 | 13°11 | 11°53 | 1°30 | T 24 | | | | | | | |
| F 25 | 16 11 27 | 4°17'10 | 25°35 | 11° 5 | 28°33 | 0♁2 | 15°28 | 9°29 | 11°10 | 28° 8 | 15°14 | 12°33 | 13° 8 | 12° 0 | 1°35 | F 25 | | | | | | | |
| S 26 | 16 15 24 | 5°15'01 | 9♁48 | 12°36 | 27°57 | 0°42 | 15°42 | 9°28 | 11° 7 | 28° 9 | 15°15 | 12°34 | 13° 4 | 12° 7 | 1°39 | S 26 | | | | | | | |
| S 27 | 16 19 20 | 6°12'52 | 23°37 | 14° 9 | 27°23 | 1°23 | 15°56 | 9°26 | 11° 5 | 28°11 | 15°16 | 12°34 | 13° 1 | 12°13 | 1°43 | S 27 | | | | | | | |
| M28 | 16 23 17 | 7°10'40 | 7♃1 | 15°44 | 26°50 | 2° 3 | 16°10 | 9°25 | 11° 2 | 28°12 | 15°17 | 12°R34 | 12°58 | 12°20 | 1°47 | M28 | | | | | | | |
| T 29 | 16 27 14 | 8° 8'28 | 20° 1 | 17°21 | 26°18 | 2°43 | 16°24 | 9°23 | 11° 0 | 28°14 | 15°18 | 12°34 | 12°55 | 12°27 | 1°51 | T 29 | | | | | | | |
| W30 | 16 31 10 | 9° 6'15 | 2♃42 | 19° 0 | 25°48 | 3°23 | 16°38 | 9°22 | 10°57 | 28°15 | 15°19 | 12°34 | 12°52 | 12°33 | 1°55 | W30 | | | | | | | |
| T 31 | 16 35 7 | 10♅4'00 | 15♃5 | 20♃42 | 25♃20 | 4°52 | 16♅52 | 9°21 | 10♌55 | 28°17 | 15♃20 | 12♌34 | 12♌48 | 12♅40 | 1♅59 | T 31 | | | | | | | |

Delta T = 18m19s

JUNE 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|-------|--------|-------|-------|--------|-------|-------|------|------|---|---|---|---|---|---|-----|
| F 1 | 16 39 3 | 11♅1'45 | 27♃16 | 22♃26 | 24°R54 | 4♁42 | 17♅6 | 9°R20 | 10°R52 | 28♁19 | 15♃21 | 12°R33 | 12♌45 | 12♅47 | 2♅3 | F 1 | | | | | | | |
| S 2 | 16 43 0 | 11°59'28 | 9♃16 | 24°12 | 24♃30 | 5°22 | 17°20 | 9°19 | 10♌50 | 28°20 | 15°22 | 12♌33 | 12°42 | 12°53 | 2° 7 | S 2 | | | | | | | |
| S 3 | 16 46 56 | 12°57'11 | 21° 9 | 26° 0 | 24° 8 | 6° 2 | 17°34 | 9°18 | 10°47 | 28°22 | 15°23 | 12°D33 | 12°39 | 13° 0 | 2°12 | S 3 | | | | | | | |
| M 4 | 16 50 53 | 13°54'52 | 2♅58 | 27°50 | 23°48 | 6°42 | 17°48 | 9°17 | 10°45 | 28°24 | 15°24 | 12°33 | 12°36 | 13° 6 | 2°16 | M 4 | | | | | | | |
| T 5 | 16 54 49 | 14°52'32 | 14°45 | 29°43 | 23°31 | 7°22 | 18° 2 | 9°16 | 10°42 | 28°25 | 15°25 | 12°R33 | 12°33 | 13°13 | 2°20 | T 5 | | | | | | | |
| W 6 | 16 58 46 | 15°50'11 | 26°32 | 1♅37 | 23°16 | 8° 2 | 18°16 | 9°16 | 10°40 | 28°27 | 15°25 | 12°33 | 12°29 | 13°20 | 2°24 | W 6 | | | | | | | |
| T 7 | 17 2 43 | 16°47'49 | 8♁23 | 3°34 | 23° 3 | 8°41 | 18°30 | 9°15 | 10°37 | 28°29 | 15°26 | 12°33 | 12°26 | 13°26 | 2°28 | T 7 | | | | | | | |
| F 8 | 17 6 39 | 17°45'25 | 20°18 | 5°33 | 22°53 | 9°21 | 18°44 | 9°15 | 10°35 | 28°31 | 15°27 | 12°32 | 12°23 | 13°33 | 2°32 | F 8 | | | | | | | |
| S 9 | 17 10 36 | 18°43'01 | 2♁21 | 7°34 | 22°45 | 10° 1 | 18°58 | 9°15 | 10°32 | 28°32 | 15°28 | 12°32 | 12°20 | 13°40 | 2°36 | S 9 | | | | | | | |
| S 10 | 17 14 32 | 19°40'34 | 14°34 | 9°36 | 22°40 | 10°40 | 19°12 | 9°15 | 10°30 | 28°34 | 15°29 | 12°31 | 12°17 | 13°46 | 2°40 | S 10 | | | | | | | |
| M11 | 17 18 29 | 20°38'07 | 27° 2 | 11°41 | 22°37 | 11°20 | 19°26 | 9°D15 | 10°27 | 28°36 | 15°29 | 12°30 | 12°14 | 13°53 | 2°44 | M11 | | | | | | | |
| T 12 | 17 22 25 | 21°35'38 | 9♃46 | 13°47 | 22°D36 | 11°59 | 19°40 | 9°15 | 10°25 | 28°38 | 15°30 | 12°30 | 12°10 | 14° 0 | 2°48 | T 12 | | | | | | | |
| W13 | 17 26 22 | 22°33'08 | 22°50 | 15°55 | 22°38 | 12°39 | 19°54 | 9°15 | 10°22 | 28°40 | 15°31 | 12°D29 | 12° 7 | 14° 6 | 2°52 | W13 | | | | | | | |
| T 14 | 17 30 18 | 23°30'37 | 6♁17 | 18° 4 | 22°42 | 13°19 | 20° 8 | 9°15 | 10°20 | 28°42 | 15°31 | 12°30 | 12° 4 | 14°13 | 2°56 | T 14 | | | | | | | |
| F 15 | 17 34 15 | 24°28'05 | 20° 9 | 20°14 | 22°48 | 13°58 | 20°22 | 9°16 | 10°18 | 28°43 | 15°32 | 12°30 | 12° 1 | 14°20 | 3° 0 | F 15 | | | | | | | |
| S 16 | 17 38 12 | 25°25'31 | 4♅25 | 22°25 | 22°56 | 14°38 | 20°36 | 9°16 | 10°15 | 28°45 | 15°33 | 12°31 | 11°58 | 14°26 | 3° 4 | S 16 | | | | | | | |
| S 17 | 17 42 8 | 26°22'56 | 19° 4 | 24°37 | 23° 7 | 15°17 | 20°50 | 9°17 | 10°13 | 28°47 | 15°33 | 12°32 | 11°54 | 14°33 | 3° 7 | S 17 | | | | | | | |
| M18 | 17 46 5 | 27°20'21 | 4♌7 | 26°49 | 23°19 | 15°56 | 21° 4 | 9°17 | 10°10 | 28°49 | 15°34 | 12°33 | 11°51 | 14°39 | 3°11 | M18 | | | | | | | |
| T 19 | 17 50 1 | 28°17'44 | 19° 9 | 29° 1 | 23°34 | 16°36 | 21°18 | 9°18 | 10° 8 | 28°51 | 15°35 | 12°R33 | 11°48 | 14°46 | 3°15 | T 19 | | | | | | | |
| W20 | 17 53 58 | 29°15'07 | 4♁19 | 1♁13 | 23°50 | 17°15 | 21°32 | 9°19 | 10° 6 | 28°53 | 15°35 | 12°32 | 11°45 | 14°53 | 3°19 | W20 | | | | | | | |
| T 21 | 17 57 54 | 0♁12'29 | 19°22 | 3°25 | 24° 9 | 17°54 | 21°46 | 9°20 | 10° 3 | 28°55 | 15°36 | 12°31 | 11°42 | 14°59 | 3°23 | T 21 | | | | | | | |
| F 22 | 18 1 51 | 1° 9'50 | 4♁10 | 5°35 | 24°29 | 18°34 | 21°59 | 9°21 | 10° 1 | 28°57 | 15°36 | 12°28 | 11°39 | 15° 6 | 3°27 | F 22 | | | | | | | |
| S 23 | 18 5 48 | 2° 7'10 | 18°35 | 7°45 | 24°51 | 19°13 | 22°13 | 9°22 | 9°59 | 28°59 | 15°37 | 12°26 | 11°35 | 15°13 | 3°30 | S 23 | | | | | | | |
| S 24 | 18 9 44 | 3° 4'30 | 2♃33 | 9°54 | 25°15 | 19°52 | 22°27 | 9°23 | 9°57 | 29° 1 | 15°37 | 12°24 | 11°32 | 15°19 | 3°34 | S 24 | | | | | | | |
| M25 | 18 13 41 | 4° 1'50 | 16° 4 | 12° 2 | 25°40 | 20°32 | 22°41 | 9°25 | 9°54 | 29° 3 | 15°38 | 12°22 | 11°29 | 15°26 | 3°38 | M25 | | | | | | | |
| T 26 | 18 17 37 | 4°59'09 | 29° 8 | 14° 7 | 26° 7 | 21°11 | 22°55 | 9°26 | 9°52 | 29° 5 | 15°38 | 12°21 | 11°26 | 15°33 | 3°42 | T 26 | | | | | | | |
| W27 | 18 21 34 | 5°56'28 | 11♃49 | 16°12 | 26°36 | 21°50 | 23° 9 | 9°28 | 9°50 | 29° 7 | 15°39 | 12°D21 | 11°23 | 15°39 | 3°45 | W27 | | | | | | | |
| T 28 | 18 25 30 | 6°53'47 | 24°10 | 18°14 | 27° 6 | 22°29 | 23°23 | 9°30 | 9°48 | 29°10 | 15°39 | 12°22 | 11°20 | 15°46 | 3°49 | T 28 | | | | | | | |
| F 29 | 18 29 27 | 7°51'05 | 6♃15 | 20°14 | 27°37 | 23° 8 | 23°36 | 9°31 | 9°46 | 29°12 | 15°39 | 12°23 | 11°16 | 15°53 | 3°52 | F 29 | | | | | | | |
| S 30 | 18 33 23 | 8°48'24 | 18♃10 | 22°13 | 28♃10 | 23°47 | 23♅50 | 9°33 | 9°44 | 29°14 | 15♃40 | 12♌25 | 11♌13 | 15♅59 | 3♅56 | S 30 | | | | | | | |

Delta T = 18m19s

ASTRODIENST EPHEMERIS for the year 2570
geocentric

JULY 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|------|------|-----|
| S 1 | 18 37 20 | 9♄5'42 | 29♃59 | 24♄ 9 | 28♃44 | 24♄26 | 24♃4 | 9♄35 | 9°R42 | 29♄16 | 15°V40 | 12♃26 | 11♃10 | 16♃6 | 4♃0 | S 1 | |
| M 2 | 18 41 17 | 10°43'00 | 11♃45 | 26° 3 | 29°19 | 25° 6 | 24°18 | 9°37 | 9♄40 | 29°18 | 15°40 | 12°R27 | 11° 7 | 16°12 | 4° 3 | M 2 | |
| T 3 | 18 45 13 | 11°40'17 | 23°33 | 27°55 | 29°56 | 25°45 | 24°31 | 9°39 | 9°38 | 29°20 | 15°41 | 12°26 | 11° 4 | 16°19 | 4° 7 | T 3 | |
| W 4 | 18 49 10 | 12°37'34 | 5♄24 | 29°45 | 0♃34 | 26°24 | 24°45 | 9°42 | 9°36 | 29°22 | 15°41 | 12°24 | 11° 0 | 16°26 | 4°10 | W 4 | |
| T 5 | 18 53 6 | 13°34'51 | 17°21 | 1♃33 | 1°12 | 27° 3 | 24°59 | 9°44 | 9°34 | 29°24 | 15°41 | 12°21 | 10°57 | 16°32 | 4°14 | T 5 | |
| F 6 | 18 57 3 | 14°32'08 | 29°26 | 3°18 | 1°52 | 27°42 | 25°12 | 9°46 | 9°32 | 29°27 | 15°41 | 12°16 | 10°54 | 16°39 | 4°17 | F 6 | |
| S 7 | 19 0 59 | 15°29'24 | 11♃40 | 5° 1 | 2°33 | 28°21 | 25°26 | 9°49 | 9°30 | 29°29 | 15°42 | 12°11 | 10°51 | 16°46 | 4°20 | S 7 | |
| S 8 | 19 4 56 | 16°26'40 | 24° 6 | 6°42 | 3°15 | 29° 0 | 25°39 | 9°52 | 9°28 | 29°31 | 15°42 | 12° 5 | 10°48 | 16°52 | 4°24 | S 8 | |
| M 9 | 19 8 52 | 17°23'55 | 6♃44 | 8°21 | 3°58 | 29°39 | 25°53 | 9°54 | 9°26 | 29°33 | 15°42 | 11°59 | 10°45 | 16°59 | 4°27 | M 9 | |
| T 10 | 19 12 49 | 18°21'10 | 19°36 | 9°58 | 4°42 | 0♃17 | 26° 6 | 9°57 | 9°24 | 29°35 | 15°42 | 11°55 | 10°41 | 17° 6 | 4°30 | T 10 | |
| W11 | 19 16 46 | 19°18'25 | 2♄44 | 11°32 | 5°27 | 0°56 | 26°19 | 10° 0 | 9°23 | 29°38 | 15°42 | 11°52 | 10°38 | 17°12 | 4°33 | W11 | |
| T 12 | 19 20 42 | 20°15'39 | 16° 9 | 13° 4 | 6°12 | 1°35 | 26°33 | 10° 3 | 9°21 | 29°40 | 15°42 | 11°D51 | 10°35 | 17°19 | 4°37 | T 12 | |
| F 13 | 19 24 39 | 21°12'53 | 29°53 | 14°34 | 6°59 | 2°14 | 26°46 | 10° 6 | 9°19 | 29°42 | 15°42 | 11°51 | 10°32 | 17°26 | 4°40 | F 13 | |
| S 14 | 19 28 35 | 22°10'07 | 13♃56 | 16° 1 | 7°46 | 2°53 | 26°59 | 10° 9 | 9°18 | 29°44 | 15°42 | 11°52 | 10°29 | 17°32 | 4°43 | S 14 | |
| S 15 | 19 32 32 | 23° 7'20 | 28°18 | 17°26 | 8°34 | 3°32 | 27°13 | 10°13 | 9°16 | 29°46 | 15°42 | 11°54 | 10°26 | 17°39 | 4°46 | S 15 | |
| M16 | 19 36 28 | 24° 4'33 | 12♃57 | 18°49 | 9°23 | 4°10 | 27°26 | 10°16 | 9°15 | 29°49 | 15°R42 | 11°R54 | 10°22 | 17°46 | 4°49 | M16 | |
| T 17 | 19 40 25 | 25° 1'46 | 27°49 | 20° 9 | 10°12 | 4°49 | 27°39 | 10°19 | 9°13 | 29°51 | 15°42 | 11°53 | 10°19 | 17°52 | 4°52 | T 17 | |
| W18 | 19 44 21 | 25°58'59 | 12♃46 | 21°27 | 11° 2 | 5°28 | 27°52 | 10°23 | 9°12 | 29°53 | 15°42 | 11°50 | 10°16 | 17°59 | 4°55 | W18 | |
| T 19 | 19 48 18 | 26°56'12 | 27°41 | 22°43 | 11°53 | 6° 7 | 28° 5 | 10°27 | 9°10 | 29°55 | 15°42 | 11°46 | 10°13 | 18° 5 | 4°58 | T 19 | |
| F 20 | 19 52 15 | 27°53'25 | 12♃25 | 23°56 | 12°44 | 6°45 | 28°18 | 10°30 | 9° 9 | 29°57 | 15°42 | 11°39 | 10°10 | 18°12 | 5° 1 | F 20 | |
| S 21 | 19 56 11 | 28°50'38 | 26°51 | 25° 6 | 13°36 | 7°24 | 28°31 | 10°34 | 9° 8 | 29°59 | 15°42 | 11°32 | 10° 6 | 18°19 | 5° 4 | S 21 | |
| S 22 | 20 0 8 | 29°47'51 | 10♃53 | 26°14 | 14°29 | 8° 3 | 28°44 | 10°38 | 9° 6 | 0♃ 2 | 15°42 | 11°25 | 10° 3 | 18°25 | 5° 7 | S 22 | |
| M23 | 20 4 4 | 0♃45'05 | 24°28 | 27°18 | 15°22 | 8°41 | 28°57 | 10°42 | 9° 5 | 0° 4 | 15°42 | 11°19 | 10° 0 | 18°32 | 5° 9 | M23 | |
| T 24 | 20 8 1 | 1°42'20 | 7°V36 | 28°20 | 16°16 | 9°20 | 29°10 | 10°46 | 9° 4 | 0° 6 | 15°42 | 11°14 | 9°57 | 18°39 | 5°12 | T 24 | |
| W25 | 20 11 57 | 2°39'35 | 20°19 | 29°20 | 17°10 | 9°59 | 29°23 | 10°50 | 9° 3 | 0° 9 | 15°41 | 11°11 | 9°54 | 18°45 | 5°15 | W25 | |
| T 26 | 20 15 54 | 3°36'50 | 2♃41 | 0♃16 | 18° 5 | 10°37 | 29°35 | 10°54 | 9° 2 | 0°11 | 15°41 | 11°D11 | 9°51 | 18°52 | 5°17 | T 26 | |
| F 27 | 20 19 50 | 4°34'06 | 14°47 | 1° 8 | 19° 0 | 11°16 | 29°48 | 10°59 | 9° 0 | 0°13 | 15°41 | 11°11 | 9°47 | 18°59 | 5°20 | F 27 | |
| S 28 | 20 23 47 | 5°31'23 | 26°41 | 1°58 | 19°56 | 11°54 | 0♄ 1 | 11° 3 | 8°59 | 0°15 | 15°41 | 11°12 | 9°44 | 19° 5 | 5°22 | S 28 | |
| S 29 | 20 27 44 | 6°28'41 | 8♃29 | 2°44 | 20°53 | 12°33 | 0°13 | 11° 7 | 8°58 | 0°18 | 15°40 | 11°R13 | 9°41 | 19°12 | 5°25 | S 29 | |
| M30 | 20 31 40 | 7°25'59 | 20°16 | 3°27 | 21°49 | 13°12 | 0°26 | 11°12 | 8°58 | 0°20 | 15°40 | 11°12 | 9°38 | 19°19 | 5°27 | M30 | |
| T 31 | 20 35 37 | 8♃23'18 | 2♄ 6 | 4♃ 6 | 22♃46 | 13♃50 | 0♄38 | 11♄16 | 8♄57 | 0♃22 | 15°V40 | 11♃10 | 9♄35 | 19♃25 | 5♃30 | T 31 | |

Delta T = 18m20s

AUGUST 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|------|-------|-------|------|--------|--------|------|-------|------|------|-----|
| W 1 | 20 39 33 | 9♃20'38 | 14♄ 3 | 4♃41 | 23♃44 | 14♃29 | 0♄50 | 11♄21 | 8°R56 | 0♃24 | 15°R39 | 11°R 5 | 9♄32 | 19♃32 | 5♃32 | W 1 | |
| T 2 | 20 43 30 | 10°17'58 | 26° 9 | 5°12 | 24°42 | 15° 7 | 1° 3 | 11°26 | 8°55 | 0°26 | 15°V39 | 10♃58 | 9°28 | 19°39 | 5°34 | T 2 | |
| F 3 | 20 47 26 | 11°15'19 | 8♃27 | 5°39 | 25°40 | 15°46 | 1°15 | 11°31 | 8°54 | 0°29 | 15°39 | 10°49 | 9°25 | 19°45 | 5°37 | F 3 | |
| S 4 | 20 51 23 | 12°12'40 | 20°57 | 6° 1 | 26°39 | 16°24 | 1°27 | 11°36 | 8°54 | 0°31 | 15°38 | 10°39 | 9°22 | 19°52 | 5°39 | S 4 | |
| S 5 | 20 55 19 | 13°10'02 | 3♃41 | 6°19 | 27°38 | 17° 3 | 1°39 | 11°40 | 8°53 | 0°33 | 15°38 | 10°28 | 9°19 | 19°58 | 5°41 | S 5 | |
| M 6 | 20 59 16 | 14° 7'25 | 16°36 | 6°33 | 28°38 | 17°41 | 1°51 | 11°45 | 8°52 | 0°35 | 15°37 | 10°18 | 9°16 | 20° 5 | 5°43 | M 6 | |
| T 7 | 21 3 13 | 15° 4'48 | 29°45 | 6°41 | 29°38 | 18°20 | 2° 3 | 11°51 | 8°52 | 0°37 | 15°37 | 10° 9 | 9°12 | 20°12 | 5°45 | T 7 | |
| W 8 | 21 7 9 | 16° 2'12 | 13♄ 5 | 6°R45 | 0♄38 | 18°58 | 2°15 | 11°56 | 8°51 | 0°40 | 15°36 | 10° 2 | 9° 9 | 20°18 | 5°47 | W 8 | |
| T 9 | 21 11 6 | 16°59'36 | 26°37 | 6°43 | 1°39 | 19°36 | 2°27 | 12° 1 | 8°51 | 0°42 | 15°36 | 9°59 | 9° 6 | 20°25 | 5°49 | T 9 | |
| F 10 | 21 15 2 | 17°57'01 | 10♃21 | 6°36 | 2°39 | 20°15 | 2°38 | 12° 6 | 8°51 | 0°44 | 15°35 | 9°57 | 9° 3 | 20°32 | 5°51 | F 10 | |
| S 11 | 21 18 59 | 18°54'26 | 24°18 | 6°24 | 3°41 | 20°53 | 2°50 | 12°12 | 8°50 | 0°46 | 15°35 | 9°D57 | 9° 0 | 20°38 | 5°53 | S 11 | |
| S 12 | 21 22 55 | 19°51'52 | 8♄27 | 6° 7 | 4°42 | 21°32 | 3° 1 | 12°17 | 8°50 | 0°48 | 15°34 | 9°R57 | 8°57 | 20°45 | 5°55 | S 12 | |
| M13 | 21 26 52 | 20°49'18 | 22°48 | 5°45 | 5°44 | 22°10 | 3°13 | 12°22 | 8°50 | 0°50 | 15°34 | 9°57 | 8°53 | 20°52 | 5°56 | M13 | |
| T 14 | 21 30 48 | 21°46'45 | 7♃18 | 5°18 | 6°46 | 22°48 | 3°24 | 12°28 | 8°50 | 0°52 | 15°33 | 9°54 | 8°50 | 20°58 | 5°58 | T 14 | |
| W15 | 21 34 45 | 22°44'13 | 21°53 | 4°46 | 7°48 | 23°27 | 3°36 | 12°34 | 8°49 | 0°54 | 15°33 | 9°49 | 8°47 | 21° 5 | 6° 0 | W15 | |
| T 16 | 21 38 42 | 23°41'42 | 6♄27 | 4°10 | 8°51 | 24° 5 | 3°47 | 12°39 | 8°49 | 0°57 | 15°32 | 9°42 | 8°44 | 21°12 | 6° 1 | T 16 | |
| F 17 | 21 42 38 | 24°39'11 | 20°54 | 3°30 | 9°54 | 24°43 | 3°58 | 12°45 | 8°D49 | 0°59 | 15°31 | 9°32 | 8°41 | 21°18 | 6° 3 | F 17 | |
| S 18 | 21 46 35 | 25°36'41 | 5♃ 8 | 2°46 | 10°57 | 25°22 | 4° 9 | 12°51 | 8°49 | 1° 1 | 15°31 | 9°21 | 8°37 | 21°25 | 6° 4 | S 18 | |
| S 19 | 21 50 31 | 26°34'13 | 19° 2 | 2° 0 | 12° 0 | 26° 0 | 4°20 | 12°57 | 8°49 | 1° 3 | 15°30 | 9°10 | 8°34 | 21°32 | 6° 5 | S 19 | |
| M20 | 21 54 28 | 27°31'45 | 2°V33 | 1°13 | 13° 4 | 26°38 | 4°31 | 13° 3 | 8°49 | 1° 5 | 15°29 | 8°59 | 8°31 | 21°38 | 6° 7 | M20 | |
| T 21 | 21 58 24 | 28°29'19 | 15°40 | 0°24 | 14° 8 | 27°17 | 4°42 | 13° 8 | 8°50 | 1° 7 | 15°28 | 8°51 | 8°28 | 21°45 | 6° 8 | T 21 | |
| W22 | 22 2 21 | 29°26'54 | 28°23 | 29♃34 | 15°12 | 27°55 | 4°52 | 13°14 | 8°50 | 1° 9 | 15°28 | 8°46 | 8°25 | 21°51 | 6° 9 | W22 | |
| T 23 | 22 6 17 | 0♃24'31 | 10♃46 | 28°46 | 16°17 | 28°33 | 5° 3 | 13°21 | 8°50 | 1°11 | 15°27 | 8°42 | 8°22 | 21°58 | 6°10 | T 23 | |
| F 24 | 22 10 14 | 1°22'09 | 22°52 | 27°59 | 17°21 | 29°11 | 5°13 | 13°27 | 8°50 | 1°13 | 15°26 | 8°41 | 8°18 | 22° 5 | 6°11 | F 24 | |
| S 25 | 22 14 11 | 2°19'49 | 4♃47 | 27°15 | 18°26 | 29°50 | 5°24 | 13°33 | 8°51 | 1°15 | 15°25 | 8°41 | 8°15 | 22°11 | 6°12 | S 25 | |
| S 26 | 22 18 7 | 3°17'30 | 16°36 | 26°34 | 19°31 | 0♃28 | 5°34 | 13°39 | 8°51 | 1°17 | 15°25 | 8°41 | 8°12 | 22°18 | 6°13 | S 26 | |
| M27 | 22 22 4 | 4°15'13 | 28°24 | 25°58 | 20°36 | 1° 6 | 5°44 | 13°45 | 8°52 | 1°19 | 15°24 | 8°40 | 8° 9 | 22°25 | 6°14 | M27 | |
| T 28 | 22 26 0 | 5°12'57 | 10♄17 | 25°27 | 21°42 | 1°44 | 5°54 | 13°52 | 8°52 | 1°21 | 15°23 | 8°37 | 8° 6 | 22°31 | 6°15 | T 28 | |
| W29 | 22 29 57 | 6°10'42 | 22°20 | 25° 2 | 22°48 | 2°23 | 6° 4 | 13°58 | 8°53 | 1°23 | 15°22 | 8°31 | 8° 3 | 22°38 | 6°16 | W29 | |
| T 30 | 22 33 53 | 7° 8'30 | 4♃35 | 24°44 | 23°54 | 3° 1 | 6°14 | 14° 4 | 8°54 | 1°24 | 15°21 | 8°23 | 7°59 | 22°45 | 6°17 | T 30 | |
| F 31 | 22 37 50 | 8♃ 6'18 | 17♃ 5 | 24♃33 | 25♄ 0 | 3♃39 | 6♄24 | 14♄11 | 8♄54 | 1♃26 | 15°V20 | 8♄12 | 7♄56 | 22♃51 | 6♃17 | F 31 | |

Delta T = 18m20s

ASTRODIENST EPHEMERIS for the year 2570
geocentric

SEPTEMBER 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|-------|------|------|--------|-------|------|-------|-------|------|-----|
| S 1 | 22 41 46 | 9♎ 4'08 | 29♏52 | 24°D29 | 26♁ 6 | 4♎17 | 6♁33 | 14♎17 | 8♁55 | 1♏28 | 15°R19 | 8°R 0 | 7♁53 | 22♎58 | 6♎18 | S 1 | |
| S 2 | 22 45 43 | 10° 2'00 | 12♎55 | 24♏32 | 27°12 | 4°56 | 6°43 | 14°24 | 8°56 | 1°30 | 15°Y18 | 7♁47 | 7°50 | 23° 5 | 6°19 | S 2 | |
| M 3 | 22 49 40 | 10°59'53 | 26°13 | 24°44 | 28°19 | 5°34 | 6°52 | 14°30 | 8°57 | 1°32 | 15°17 | 7°34 | 7°47 | 23°11 | 6°19 | M 3 | |
| T 4 | 22 53 36 | 11°57'47 | 9♎44 | 25° 3 | 29°26 | 6°12 | 7° 2 | 14°37 | 8°58 | 1°34 | 15°17 | 7°24 | 7°43 | 23°18 | 6°20 | T 4 | |
| W 5 | 22 57 33 | 12°55'42 | 23°25 | 25°31 | 0♏33 | 6°50 | 7°11 | 14°44 | 8°58 | 1°35 | 15°16 | 7°16 | 7°40 | 23°25 | 6°20 | W 5 | |
| T 6 | 23 1 29 | 13°53'39 | 7♎15 | 26° 6 | 1°40 | 7°28 | 7°20 | 14°50 | 8°59 | 1°37 | 15°15 | 7°11 | 7°37 | 23°31 | 6°20 | T 6 | |
| F 7 | 23 5 26 | 14°51'38 | 21°10 | 26°49 | 2°47 | 8° 7 | 7°29 | 14°57 | 9° 1 | 1°39 | 15°14 | 7° 9 | 7°34 | 23°38 | 6°21 | F 7 | |
| S 8 | 23 9 22 | 15°49'37 | 5♁12 | 27°40 | 3°55 | 8°45 | 7°38 | 15° 4 | 9° 2 | 1°41 | 15°13 | 7°D 8 | 7°31 | 23°45 | 6°21 | S 8 | |
| S 9 | 23 13 19 | 16°47'38 | 19°17 | 28°38 | 5° 3 | 9°23 | 7°46 | 15°11 | 9° 3 | 1°42 | 15°12 | 7°R 8 | 7°28 | 23°51 | 6°21 | S 9 | |
| M10 | 23 17 15 | 17°45'40 | 3♁26 | 29°42 | 6°10 | 10° 1 | 7°55 | 15°18 | 9° 4 | 1°44 | 15°11 | 7° 7 | 7°24 | 23°58 | 6°21 | M10 | |
| T 11 | 23 21 12 | 18°43'44 | 17°37 | 0♎54 | 7°18 | 10°39 | 8° 3 | 15°24 | 9° 5 | 1°46 | 15°10 | 7° 5 | 7°21 | 24° 4 | 6°R21 | T 11 | |
| W12 | 23 25 8 | 19°41'48 | 1♁49 | 2°11 | 8°27 | 11°17 | 8°11 | 15°31 | 9° 7 | 1°47 | 15° 9 | 7° 0 | 7°18 | 24°11 | 6°21 | W12 | |
| T 13 | 23 29 5 | 20°39'54 | 15°58 | 3°34 | 9°35 | 11°56 | 8°20 | 15°38 | 9° 8 | 1°49 | 15° 7 | 6°52 | 7°15 | 24°18 | 6°21 | T 13 | |
| F 14 | 23 33 2 | 21°38'02 | 29°59 | 5° 3 | 10°43 | 12°34 | 8°28 | 15°45 | 9° 9 | 1°51 | 15° 6 | 6°42 | 7°12 | 24°24 | 6°21 | F 14 | |
| S 15 | 23 36 58 | 22°36'11 | 13♁51 | 6°35 | 11°52 | 13°12 | 8°36 | 15°52 | 9°11 | 1°52 | 15° 5 | 6°31 | 7° 9 | 24°31 | 6°20 | S 15 | |
| S 16 | 23 40 55 | 23°34'22 | 27°27 | 8°12 | 13° 1 | 13°50 | 8°43 | 15°59 | 9°12 | 1°54 | 15° 4 | 6°19 | 7° 5 | 24°38 | 6°20 | S 16 | |
| M17 | 23 44 51 | 24°32'34 | 10°Y44 | 9°53 | 14° 9 | 14°28 | 8°51 | 16° 6 | 9°14 | 1°55 | 15° 3 | 6° 9 | 7° 2 | 24°44 | 6°20 | M17 | |
| T 18 | 23 48 48 | 25°30'48 | 23°42 | 11°37 | 15°18 | 15° 6 | 8°58 | 16°13 | 9°15 | 1°57 | 15° 2 | 6° 0 | 6°59 | 24°51 | 6°19 | T 18 | |
| W19 | 23 52 44 | 26°29'04 | 6♁20 | 13°23 | 16°28 | 15°44 | 9° 6 | 16°21 | 9°17 | 1°58 | 15° 1 | 5°54 | 6°56 | 24°58 | 6°19 | W19 | |
| T 20 | 23 56 41 | 27°27'22 | 18°40 | 15°11 | 17°37 | 16°22 | 9°13 | 16°28 | 9°19 | 2° 0 | 15° 0 | 5°50 | 6°53 | 25° 4 | 6°18 | T 20 | |
| F 21 | 0 0 37 | 28°25'43 | 0♎45 | 17° 1 | 18°46 | 17° 1 | 9°20 | 16°35 | 9°20 | 2° 1 | 14°59 | 5°D49 | 6°49 | 25°11 | 6°18 | F 21 | |
| S 22 | 0 4 34 | 29°24'05 | 12°39 | 18°52 | 19°56 | 17°39 | 9°27 | 16°42 | 9°22 | 2° 2 | 14°58 | 5°49 | 6°46 | 25°18 | 6°17 | S 22 | |
| S 23 | 0 8 31 | 0♎22'29 | 24°29 | 20°44 | 21° 6 | 18°17 | 9°34 | 16°49 | 9°24 | 2° 4 | 14°56 | 5°49 | 6°43 | 25°24 | 6°16 | S 23 | |
| M24 | 0 12 27 | 1°20'55 | 6♁18 | 22°37 | 22°15 | 18°55 | 9°40 | 16°57 | 9°26 | 2° 5 | 14°55 | 5°R49 | 6°40 | 25°31 | 6°15 | M24 | |
| T 25 | 0 16 24 | 2°19'24 | 18°12 | 24°30 | 23°25 | 19°33 | 9°47 | 17° 4 | 9°28 | 2° 6 | 14°54 | 5°48 | 6°37 | 25°38 | 6°14 | T 25 | |
| W26 | 0 20 20 | 3°17'54 | 0♏17 | 26°23 | 24°36 | 20°11 | 9°53 | 17°11 | 9°30 | 2° 8 | 14°53 | 5°45 | 6°34 | 25°44 | 6°14 | W26 | |
| T 27 | 0 24 17 | 4°16'27 | 12°37 | 28°16 | 25°46 | 20°49 | 9°59 | 17°18 | 9°32 | 2° 9 | 14°52 | 5°39 | 6°30 | 25°51 | 6°13 | T 27 | |
| F 28 | 0 28 13 | 5°15'02 | 25°15 | 0♎ 9 | 26°56 | 21°28 | 10° 5 | 17°26 | 9°34 | 2°10 | 14°51 | 5°31 | 6°27 | 25°58 | 6°12 | F 28 | |
| S 29 | 0 32 10 | 6°13'38 | 8♎13 | 2° 1 | 28° 7 | 22° 6 | 10°11 | 17°33 | 9°36 | 2°11 | 14°50 | 5°21 | 6°24 | 26° 4 | 6°10 | S 29 | |
| S 30 | 0 36 6 | 7♎12'17 | 21♎32 | 3♁53 | 29♏17 | 22♎44 | 10♁16 | 17♎40 | 9♁38 | 2♏12 | 14°Y48 | 5♁11 | 6♁21 | 26♎11 | 6♎ 9 | S 30 | |

Delta T = 18m20s

OCTOBER 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|------|--------|-------|------|-------|-------|------|-----|
| M 1 | 0 40 3 | 8♎10'58 | 5♎11 | 5♎44 | 0♎28 | 23♎22 | 10♁22 | 17♎48 | 9♁40 | 2♏14 | 14°R47 | 5°R 2 | 6♁18 | 26♎17 | 6°R 8 | M 1 | |
| T 2 | 0 44 0 | 9° 9'41 | 19° 6 | 7°34 | 1°39 | 24° 0 | 10°27 | 17°55 | 9°43 | 2°15 | 14°Y46 | 4♁53 | 6°14 | 26°24 | 6♎ 7 | T 2 | |
| W 3 | 0 47 56 | 10° 8'25 | 3♎13 | 9°23 | 2°49 | 24°38 | 10°32 | 18° 2 | 9°45 | 2°16 | 14°45 | 4°47 | 6°11 | 26°31 | 6° 6 | W 3 | |
| T 4 | 0 51 53 | 11° 7'12 | 17°27 | 11°12 | 4° 0 | 25°16 | 10°37 | 18°10 | 9°47 | 2°17 | 14°44 | 4°44 | 6° 8 | 26°37 | 6° 4 | T 4 | |
| F 5 | 0 55 49 | 12° 6'00 | 1♁45 | 13° 0 | 5°12 | 25°54 | 10°42 | 18°17 | 9°50 | 2°18 | 14°43 | 4°D42 | 6° 5 | 26°44 | 6° 3 | F 5 | |
| S 6 | 0 59 46 | 13° 4'50 | 16° 2 | 14°46 | 6°23 | 26°33 | 10°47 | 18°25 | 9°52 | 2°19 | 14°41 | 4°43 | 6° 2 | 26°51 | 6° 1 | S 6 | |
| S 7 | 1 3 42 | 14° 3'42 | 0♁16 | 16°32 | 7°34 | 27°11 | 10°51 | 18°32 | 9°54 | 2°20 | 14°40 | 4°44 | 5°59 | 26°57 | 6° 0 | S 7 | |
| M 8 | 1 7 39 | 15° 2'35 | 14°25 | 18°18 | 8°45 | 27°49 | 10°55 | 18°39 | 9°57 | 2°21 | 14°39 | 4°R44 | 5°55 | 27° 4 | 5°58 | M 8 | |
| T 9 | 1 11 35 | 16° 1'30 | 28°28 | 20° 2 | 9°57 | 28°27 | 10°59 | 18°47 | 9°59 | 2°22 | 14°38 | 4°44 | 5°52 | 27°11 | 5°56 | T 9 | |
| W10 | 1 15 32 | 17° 0'27 | 12♁23 | 21°45 | 11° 8 | 29° 5 | 11° 3 | 18°54 | 10° 2 | 2°23 | 14°37 | 4°41 | 5°49 | 27°17 | 5°55 | W10 | |
| T 11 | 1 19 29 | 17°59'25 | 26° 9 | 23°27 | 12°20 | 29°43 | 11° 7 | 19° 2 | 10° 4 | 2°23 | 14°35 | 4°36 | 5°46 | 27°24 | 5°53 | T 11 | |
| F 12 | 1 23 25 | 18°58'25 | 9♁46 | 25° 9 | 13°32 | 0♎21 | 11°11 | 19° 9 | 10° 7 | 2°24 | 14°34 | 4°30 | 5°43 | 27°31 | 5°51 | F 12 | |
| S 13 | 1 27 22 | 19°57'27 | 23°11 | 26°50 | 14°44 | 0°59 | 11°14 | 19°16 | 10°10 | 2°25 | 14°33 | 4°22 | 5°40 | 27°37 | 5°49 | S 13 | |
| S 14 | 1 31 18 | 20°56'30 | 6°Y22 | 28°29 | 15°56 | 1°38 | 11°17 | 19°24 | 10°12 | 2°26 | 14°32 | 4°15 | 5°36 | 27°44 | 5°47 | S 14 | |
| M15 | 1 35 15 | 21°55'36 | 19°19 | 0♎ 8 | 17° 8 | 2°16 | 11°20 | 19°31 | 10°15 | 2°26 | 14°31 | 4° 8 | 5°33 | 27°51 | 5°45 | M15 | |
| T 16 | 1 39 11 | 22°54'44 | 2♁ 1 | 1°47 | 18°20 | 2°54 | 11°23 | 19°39 | 10°18 | 2°27 | 14°30 | 4° 2 | 5°30 | 27°57 | 5°43 | T 16 | |
| W17 | 1 43 8 | 23°53'53 | 14°28 | 3°24 | 19°32 | 3°32 | 11°26 | 19°46 | 10°21 | 2°28 | 14°28 | 3°58 | 5°27 | 28° 4 | 5°41 | W17 | |
| T 18 | 1 47 4 | 24°53'05 | 26°41 | 5° 1 | 20°44 | 4°10 | 11°28 | 19°53 | 10°24 | 2°28 | 14°27 | 3°56 | 5°24 | 28°11 | 5°39 | T 18 | |
| F 19 | 1 51 1 | 25°52'19 | 8♎42 | 6°37 | 21°57 | 4°48 | 11°30 | 20° 1 | 10°27 | 2°29 | 14°26 | 3°D56 | 5°20 | 28°17 | 5°37 | F 19 | |
| S 20 | 1 54 57 | 26°51'36 | 20°35 | 8°12 | 23° 9 | 5°26 | 11°32 | 20° 8 | 10°29 | 2°29 | 14°25 | 3°57 | 5°17 | 28°24 | 5°35 | S 20 | |
| S 21 | 1 58 54 | 27°50'54 | 2♁24 | 9°46 | 24°22 | 6° 5 | 11°34 | 20°16 | 10°32 | 2°30 | 14°24 | 3°59 | 5°14 | 28°31 | 5°32 | S 21 | |
| M22 | 2 2 51 | 28°50'15 | 14°13 | 11°20 | 25°35 | 6°43 | 11°36 | 20°23 | 10°35 | 2°30 | 14°23 | 4° 1 | 5°11 | 28°37 | 5°30 | M22 | |
| T 23 | 2 6 47 | 29°49'38 | 26° 6 | 12°53 | 26°47 | 7°21 | 11°37 | 20°30 | 10°38 | 2°31 | 14°22 | 4°R 2 | 5° 8 | 28°44 | 5°28 | T 23 | |
| W24 | 2 10 44 | 0♎49'03 | 8♏10 | 14°26 | 28° 0 | 7°59 | 11°38 | 20°38 | 10°41 | 2°31 | 14°20 | 4° 2 | 5° 5 | 28°51 | 5°25 | W24 | |
| T 25 | 2 14 40 | 1°48'31 | 20°30 | 15°57 | 29°13 | 8°37 | 11°39 | 20°45 | 10°44 | 2°32 | 14°19 | 4° 0 | 5° 1 | 28°57 | 5°23 | T 25 | |
| F 26 | 2 18 37 | 2°48'01 | 3♎ 8 | 17°28 | 0♎26 | 9°15 | 11°40 | 20°52 | 10°48 | 2°32 | 14°18 | 3°57 | 4°58 | 29° 4 | 5°21 | F 26 | |
| S 27 | 2 22 33 | 3°47'33 | 16° 9 | 18°59 | 1°39 | 9°53 | 11°41 | 21° 0 | 10°51 | 2°32 | 14°17 | 3°53 | 4°55 | 29°11 | 5°18 | S 27 | |
| S 28 | 2 26 30 | 4°47'07 | 29°35 | 20°29 | 2°52 | 10°32 | 11°41 | 21° 7 | 10°54 | 2°33 | 14°16 | 3°48 | 4°52 | 29°17 | 5°15 | S 28 | |
| M29 | 2 30 26 | 5°46'43 | 13♁25 | 21°58 | 4° 5 | 11°10 | 11°42 | 21°14 | 10°57 | 2°33 | 14°15 | 3°44 | 4°49 | 29°24 | 5°13 | M29 | |
| T 30 | 2 34 23 | 6°46'22 | 27°37 | 23°26 | 5°18 | 11°48 | 11°R42 | 21°22 | 11° 0 | 2°33 | 14°14 | 3°40 | 4°46 | 29°30 | 5°10 | T 30 | |
| W31 | 2 38 20 | 7♎46'02 | 12♎ 6 | 24♎54 | 6♁32 | 12♎26 | 11♁26 | 21♎29 | 11♁ 3 | 2♏13 | 14°Y13 | 3♁37 | 4♁42 | 29♎37 | 5♎ 8 | W31 | |

Delta T = 18m21s

ASTRODIENST EPHEMERIS for the year 2570
geocentric

NOVEMBER 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|-------|-------|-------|--------|-------|------|-------|-------|------|-----|
| T 1 | 2 42 16 | 8♉45'45 | 26♉46 | 26♉21 | 7♌45 | 13♌4 | 11°R41 | 21♌36 | 11♌7 | 2♉233 | 14°R12 | 3°D36 | 4♌39 | 29♉44 | 5°R 5 | T 1 | |
| F 2 | 2 46 13 | 9°45'29 | 11♌30 | 27°47 | 8°59 | 13°43 | 11♌41 | 21°43 | 11°10 | 2°33 | 14°Y11 | 3♌36 | 4°36 | 29°50 | 5♉2 | F 2 | |
| S 3 | 2 50 9 | 10°45'15 | 26°12 | 29°13 | 10°12 | 14°21 | 11°40 | 21°50 | 11°13 | 2°34 | 14°10 | 3°37 | 4°33 | 29°57 | 4°59 | S 3 | |
| S 4 | 2 54 6 | 11°45'03 | 10♌36 | 0♌38 | 11°26 | 14°59 | 11°39 | 21°58 | 11°17 | 2°34 | 14° 9 | 3°39 | 4°30 | 0♌4 | 4°57 | S 4 | |
| M 5 | 2 58 2 | 12°44'53 | 25° 7 | 2° 2 | 12°39 | 15°37 | 11°38 | 22° 5 | 11°20 | 2°R34 | 14° 8 | 3°40 | 4°26 | 0°10 | 4°54 | M 5 | |
| T 6 | 3 1 59 | 13°44'44 | 9♌14 | 3°25 | 13°53 | 16°15 | 11°37 | 22°12 | 11°23 | 2°34 | 14° 7 | 3°R41 | 4°23 | 0°17 | 4°51 | T 6 | |
| W 7 | 3 5 55 | 14°44'37 | 23° 4 | 4°48 | 15° 7 | 16°54 | 11°35 | 22°19 | 11°27 | 2°34 | 14° 6 | 3°40 | 4°20 | 0°24 | 4°48 | W 7 | |
| T 8 | 3 9 52 | 15°44'31 | 6♌38 | 6° 9 | 16°20 | 17°32 | 11°33 | 22°26 | 11°30 | 2°33 | 14° 5 | 3°39 | 4°17 | 0°30 | 4°45 | T 8 | |
| F 9 | 3 13 49 | 16°44'27 | 19°56 | 7°30 | 17°34 | 18°10 | 11°31 | 22°33 | 11°34 | 2°33 | 14° 4 | 3°38 | 4°14 | 0°37 | 4°42 | F 9 | |
| S 10 | 3 17 45 | 17°44'25 | 2°Y59 | 8°49 | 18°48 | 18°48 | 11°29 | 22°40 | 11°37 | 2°33 | 14° 3 | 3°35 | 4°11 | 0°44 | 4°39 | S 10 | |
| S 11 | 3 21 42 | 18°44'24 | 15°48 | 10° 8 | 20° 2 | 19°26 | 11°27 | 22°47 | 11°41 | 2°33 | 14° 2 | 3°33 | 4° 7 | 0°50 | 4°36 | S 11 | |
| M12 | 3 25 38 | 19°44'25 | 28°23 | 11°25 | 21°16 | 20° 5 | 11°24 | 22°54 | 11°44 | 2°33 | 14° 1 | 3°31 | 4° 4 | 0°57 | 4°33 | M12 | |
| T 13 | 3 29 35 | 20°44'27 | 10♌47 | 12°40 | 22°30 | 20°43 | 11°21 | 23° 1 | 11°48 | 2°32 | 14° 0 | 3°29 | 4° 1 | 1° 4 | 4°30 | T 13 | |
| W14 | 3 33 31 | 21°44'32 | 23° 0 | 13°54 | 23°44 | 21°21 | 11°19 | 23° 7 | 11°51 | 2°32 | 13°59 | 3°29 | 3°58 | 1°10 | 4°27 | W14 | |
| T 15 | 3 37 28 | 22°44'38 | 5♉3 | 15° 7 | 24°58 | 21°59 | 11°15 | 23°14 | 11°55 | 2°32 | 13°58 | 3°D28 | 3°55 | 1°17 | 4°24 | T 15 | |
| F 16 | 3 41 24 | 23°44'46 | 16°59 | 16°17 | 26°12 | 22°37 | 11°12 | 23°21 | 11°58 | 2°31 | 13°57 | 3°29 | 3°51 | 1°24 | 4°21 | F 16 | |
| S 17 | 3 45 21 | 24°44'56 | 28°49 | 17°25 | 27°26 | 23°16 | 11° 9 | 23°28 | 12° 2 | 2°31 | 13°56 | 3°29 | 3°48 | 1°30 | 4°18 | S 17 | |
| S 18 | 3 49 18 | 25°45'08 | 10♌38 | 18°31 | 28°41 | 23°54 | 11° 5 | 23°34 | 12° 5 | 2°31 | 13°56 | 3°30 | 3°45 | 1°37 | 4°15 | S 18 | |
| M19 | 3 53 14 | 26°45'22 | 22°26 | 19°34 | 29°55 | 24°32 | 11° 1 | 23°41 | 12° 9 | 2°30 | 13°55 | 3°31 | 3°42 | 1°44 | 4°12 | M19 | |
| T 20 | 3 57 11 | 27°45'38 | 4♉20 | 20°35 | 1♉ 9 | 25°10 | 10°57 | 23°48 | 12°13 | 2°30 | 13°54 | 3°32 | 3°39 | 1°50 | 4° 9 | T 20 | |
| W21 | 4 1 7 | 28°45'55 | 16°22 | 21°31 | 2°24 | 25°49 | 10°53 | 23°54 | 12°16 | 2°29 | 13°53 | 3°32 | 3°36 | 1°57 | 4° 6 | W21 | |
| T 22 | 4 5 4 | 29°46'15 | 28°38 | 22°24 | 3°38 | 26°27 | 10°48 | 24° 1 | 12°20 | 2°29 | 13°52 | 3°R32 | 3°32 | 2° 4 | 4° 2 | T 22 | |
| F 23 | 4 9 0 | 0♌46'36 | 11♉12 | 23°13 | 4°53 | 27° 5 | 10°44 | 24° 7 | 12°23 | 2°28 | 13°52 | 3°32 | 3°29 | 2°10 | 3°59 | F 23 | |
| S 24 | 4 12 57 | 1°47'00 | 24° 8 | 23°57 | 6° 7 | 27°43 | 10°39 | 24°14 | 12°27 | 2°27 | 13°51 | 3°32 | 3°26 | 2°17 | 3°56 | S 24 | |
| S 25 | 4 16 53 | 2°47'25 | 7♌29 | 24°35 | 7°22 | 28°22 | 10°34 | 24°20 | 12°31 | 2°27 | 13°50 | 3°32 | 3°23 | 2°24 | 3°53 | S 25 | |
| M26 | 4 20 50 | 3°47'52 | 21°17 | 25° 8 | 8°36 | 29° 0 | 10°29 | 24°26 | 12°34 | 2°26 | 13°49 | 3°D32 | 3°20 | 2°30 | 3°50 | M26 | |
| T 27 | 4 24 47 | 4°48'21 | 5♉32 | 25°33 | 9°51 | 29°38 | 10°24 | 24°33 | 12°38 | 2°25 | 13°49 | 3°32 | 3°17 | 2°37 | 3°47 | T 27 | |
| W28 | 4 28 43 | 5°48'52 | 20°10 | 25°52 | 11° 6 | 0♉17 | 10°18 | 24°39 | 12°42 | 2°25 | 13°48 | 3°32 | 3°13 | 2°44 | 3°44 | W28 | |
| T 29 | 4 32 40 | 6°49'24 | 5♌5 | 26° 1 | 12°20 | 0°55 | 10°12 | 24°45 | 12°46 | 2°24 | 13°47 | 3°R32 | 3°10 | 2°50 | 3°40 | T 29 | |
| F 30 | 4 36 36 | 7°49'58 | 20♌10 | 26°R 2 | 13♉35 | 1♉33 | 10♌7 | 24♌51 | 12♌49 | 2♉23 | 13°Y47 | 3♌32 | 3♌7 | 2♌57 | 3♉37 | F 30 | |

Delta T = 18m21s

DECEMBER 2570

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|--------|-------|-------|--------|-------|-------|-------|--------|-------|------|------|-------|------|-----|
| S 1 | 4 40 33 | 8♌50'34 | 5♌16 | 25°R54 | 14♉50 | 2♉11 | 10°R 1 | 24♌57 | 12♌53 | 2°R22 | 13°R46 | 3°R32 | 3♌4 | 3♌4 | 3°R34 | S 1 | |
| S 2 | 4 44 29 | 9°51'10 | 20°14 | 25♌34 | 16° 4 | 2°50 | 9♌55 | 25° 3 | 12°57 | 2♉21 | 13°Y46 | 3♌31 | 3° 1 | 3°10 | 3♉31 | S 2 | |
| M 3 | 4 48 26 | 10°51'48 | 4♌57 | 25° 5 | 17°19 | 3°28 | 9°48 | 25° 9 | 13° 0 | 2°20 | 13°45 | 3°30 | 2°57 | 3°17 | 3°28 | M 3 | |
| T 4 | 4 52 22 | 11°52'27 | 19°18 | 24°24 | 18°34 | 4° 6 | 9°42 | 25°15 | 13° 4 | 2°19 | 13°44 | 3°29 | 2°54 | 3°24 | 3°25 | T 4 | |
| W 5 | 4 56 19 | 12°53'07 | 3♌15 | 23°33 | 19°49 | 4°45 | 9°36 | 25°21 | 13° 8 | 2°18 | 13°44 | 3°29 | 2°51 | 3°30 | 3°22 | W 5 | |
| T 6 | 5 0 16 | 13°53'47 | 16°49 | 22°32 | 21° 4 | 5°23 | 9°29 | 25°26 | 13°12 | 2°17 | 13°43 | 3°D29 | 2°48 | 3°37 | 3°19 | T 6 | |
| F 7 | 5 4 12 | 14°54'29 | 29°59 | 21°23 | 22°19 | 6° 1 | 9°22 | 25°32 | 13°15 | 2°16 | 13°43 | 3°29 | 2°45 | 3°44 | 3°16 | F 7 | |
| S 8 | 5 8 9 | 15°55'12 | 12°Y50 | 20° 7 | 23°34 | 6°40 | 9°15 | 25°38 | 13°19 | 2°15 | 13°43 | 3°30 | 2°42 | 3°50 | 3°12 | S 8 | |
| S 9 | 5 12 5 | 16°55'56 | 25°23 | 18°46 | 24°49 | 7°18 | 9° 8 | 25°43 | 13°23 | 2°14 | 13°42 | 3°31 | 2°38 | 3°57 | 3° 9 | S 9 | |
| M10 | 5 16 2 | 17°56'41 | 7♌42 | 17°23 | 26° 3 | 7°56 | 9° 1 | 25°49 | 13°26 | 2°13 | 13°42 | 3°33 | 2°35 | 4° 4 | 3° 6 | M10 | |
| T 11 | 5 19 58 | 18°57'27 | 19°51 | 16° 1 | 27°18 | 8°34 | 8°54 | 25°54 | 13°30 | 2°12 | 13°41 | 3°34 | 2°32 | 4°10 | 3° 3 | T 11 | |
| W12 | 5 23 55 | 19°58'14 | 1♉51 | 14°43 | 28°33 | 9°13 | 8°47 | 26° 0 | 13°34 | 2°11 | 13°41 | 3°R34 | 2°29 | 4°17 | 3° 0 | W12 | |
| T 13 | 5 27 51 | 20°59'02 | 13°46 | 13°31 | 29°48 | 9°51 | 8°39 | 26° 5 | 13°37 | 2°10 | 13°41 | 3°34 | 2°26 | 4°24 | 2°57 | T 13 | |
| F 14 | 5 31 48 | 21°59'51 | 25°36 | 12°27 | 1♌3 | 10°29 | 8°32 | 26°10 | 13°41 | 2° 9 | 13°40 | 3°32 | 2°23 | 4°30 | 2°54 | F 14 | |
| S 15 | 5 35 45 | 23° 0'42 | 7♌26 | 11°33 | 2°19 | 11° 8 | 8°24 | 26°15 | 13°45 | 2° 7 | 13°40 | 3°30 | 2°19 | 4°37 | 2°52 | S 15 | |
| S 16 | 5 39 41 | 24° 1'33 | 19°15 | 10°50 | 3°34 | 11°46 | 8°17 | 26°20 | 13°48 | 2° 6 | 13°40 | 3°27 | 2°16 | 4°44 | 2°49 | S 16 | |
| M17 | 5 43 38 | 25° 2'26 | 1♉ 7 | 10°18 | 4°49 | 12°24 | 8° 9 | 26°25 | 13°52 | 2° 5 | 13°39 | 3°23 | 2°13 | 4°50 | 2°46 | M17 | |
| T 18 | 5 47 34 | 26° 3'19 | 13° 4 | 9°58 | 6° 4 | 13° 3 | 8° 1 | 26°30 | 13°56 | 2° 4 | 13°39 | 3°19 | 2°10 | 4°57 | 2°43 | T 18 | |
| W19 | 5 51 31 | 27° 4'14 | 25° 8 | 9°D48 | 7°19 | 13°41 | 7°53 | 26°35 | 13°59 | 2° 2 | 13°39 | 3°16 | 2° 7 | 5° 4 | 2°40 | W19 | |
| T 20 | 5 55 27 | 28° 5'10 | 7♉24 | 9°50 | 8°34 | 14°19 | 7°45 | 26°40 | 14° 3 | 2° 1 | 13°39 | 3°13 | 2° 3 | 5°10 | 2°37 | T 20 | |
| F 21 | 5 59 24 | 29° 6'06 | 19°55 | 10° 0 | 9°49 | 14°58 | 7°37 | 26°45 | 14° 7 | 2° 0 | 13°39 | 3°12 | 2° 0 | 5°17 | 2°35 | F 21 | |
| S 22 | 6 3 21 | 0♌7'05 | 2♌44 | 10°20 | 11° 4 | 15°36 | 7°29 | 26°49 | 14°10 | 1°58 | 13°38 | 3°D11 | 1°57 | 5°24 | 2°32 | S 22 | |
| S 23 | 6 7 17 | 1° 8'04 | 15°55 | 10°49 | 12°20 | 16°14 | 7°21 | 26°54 | 14°14 | 1°57 | 13°38 | 3°12 | 1°54 | 5°30 | 2°29 | S 23 | |
| M24 | 6 11 14 | 2° 9'04 | 29°32 | 11°24 | 13°35 | 16°53 | 7°13 | 26°58 | 14°18 | 1°56 | 13°38 | 3°14 | 1°51 | 5°37 | 2°27 | M24 | |
| T 25 | 6 15 10 | 3°10'05 | 13♉35 | 12° 6 | 14°50 | 17°31 | 7° 5 | 27° 3 | 14°21 | 1°54 | 13°38 | 3°15 | 1°48 | 5°44 | 2°24 | T 25 | |
| W26 | 6 19 7 | 4°11'07 | 28° 5 | 12°54 | 16° 5 | 18° 9 | 6°57 | 27° 7 | 14°25 | 1°53 | 13°38 | 3°R16 | 1°44 | 5°50 | 2°21 | W26 | |
| T 27 | 6 23 3 | 5°12'11 | 12♌57 | 13°47 | 17°21 | 18°48 | 6°49 | 27°11 | 14°28 | 1°51 | 13°38 | 3°16 | 1°41 | 5°57 | 2°19 | T 27 | |
| F 28 | 6 27 0 | 6°13'15 | 28° 7 | 14°44 | 18°36 | 19°26 | 6°41 | 27°15 | 14°32 | 1°50 | 13°D38 | 3°14 | 1°38 | 6° 4 | 2°16 | F 28 | |
| S 29 | 6 30 56 | 7°14'19 | 13♌24 | 15°45 | 19°51 | 20° 5 | 6°32 | 27°19 | 14°35 | 1°48 | 13°38 | 3°10 | 1°35 | 6°10 | 2°14 | S 29 | |
| S 30 | 6 34 53 | 8°15'25 | 28°38 | 16°50 | 21° 6 | 20°43 | 6°24 | 27°23 | 14°39 | 1°47 | 13°38 | 3° 6 | 1°32 | 6°17 | 2°12 | S 30 | |
| M31 | 6 38 50 | 9♌16'30 | 13♌38 | 17♌58 | 22♌22 | 21♉21 | 6♌16 | 27♌27 | 14♌42 | 1♉45 | 13°Y38 | 3♌0 | 1♌29 | 6♌24 | 2♉9 | M31 | |

Delta T = 18m21s

ASTRODIENST EPHEMERIS for the year 2571
geocentric

JANUARY 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-----|
| T 1 | 6 42 46 | 10♁17'36 | 28♁17 | 19♁ 9 | 23♁37 | 22♁ 0 | 6°R 8 | 27♁31 | 14♁46 | 1°R44 | 13♁38 | 2°R54 | 1♁25 | 6♁30 | 2°R 7 | T 1 | |
| W 2 | 6 46 43 | 11°18'42 | 12♁28 | 20°21 | 24°52 | 22°38 | 6♁ 0 | 27°35 | 14°49 | 1♁42 | 13°38 | 2♁50 | 1°22 | 6°37 | 2♁ 5 | W 2 | |
| T 3 | 6 50 39 | 12°19'48 | 26°11 | 21°36 | 26° 8 | 23°16 | 5°52 | 27°38 | 14°52 | 1°40 | 13°38 | 2°47 | 1°19 | 6°44 | 2° 2 | T 3 | |
| F 4 | 6 54 36 | 13°20'54 | 9♁25 | 22°53 | 27°23 | 23°55 | 5°44 | 27°42 | 14°56 | 1°39 | 13°39 | 2°D45 | 1°16 | 6°50 | 2° 0 | F 4 | |
| S 5 | 6 58 32 | 14°22'00 | 22°14 | 24°11 | 28°38 | 24°33 | 5°36 | 27°45 | 14°59 | 1°37 | 13°39 | 2°46 | 1°13 | 6°57 | 1°58 | S 5 | |
| S 6 | 7 2 29 | 15°23'06 | 4♁42 | 25°31 | 29°53 | 25°11 | 5°28 | 27°48 | 15° 3 | 1°36 | 13°39 | 2°47 | 1° 9 | 7° 4 | 1°56 | S 6 | |
| M 7 | 7 6 25 | 16°24'13 | 16°53 | 26°52 | 1♁ 9 | 25°50 | 5°20 | 27°52 | 15° 6 | 1°34 | 13°39 | 2°49 | 1° 6 | 7°10 | 1°54 | M 7 | |
| T 8 | 7 10 22 | 17°25'19 | 28°53 | 28°14 | 2°24 | 26°28 | 5°12 | 27°55 | 15° 9 | 1°32 | 13°39 | 2°R50 | 1° 3 | 7°17 | 1°52 | T 8 | |
| W 9 | 7 14 19 | 18°26'25 | 10♁46 | 29°38 | 3°39 | 27° 6 | 5° 4 | 27°58 | 15°12 | 1°31 | 13°40 | 2°49 | 1° 0 | 7°24 | 1°50 | W 9 | |
| T 10 | 7 18 15 | 19°27'32 | 22°34 | 1♁ 2 | 4°55 | 27°45 | 4°57 | 28° 1 | 15°16 | 1°29 | 13°40 | 2°47 | 0°57 | 7°30 | 1°48 | T 10 | |
| F 11 | 7 22 12 | 20°28'38 | 4♁23 | 2°27 | 6°10 | 28°23 | 4°49 | 28° 3 | 15°19 | 1°28 | 13°40 | 2°42 | 0°54 | 7°37 | 1°46 | F 11 | |
| S 12 | 7 26 8 | 21°29'44 | 16°13 | 3°52 | 7°25 | 29° 1 | 4°42 | 28° 6 | 15°22 | 1°26 | 13°41 | 2°35 | 0°50 | 7°44 | 1°45 | S 12 | |
| S 13 | 7 30 5 | 22°30'51 | 28° 6 | 5°19 | 8°41 | 29°40 | 4°34 | 28° 9 | 15°25 | 1°24 | 13°41 | 2°27 | 0°47 | 7°50 | 1°43 | S 13 | |
| M14 | 7 34 1 | 23°31'57 | 10♁ 5 | 6°46 | 9°56 | 0♁18 | 4°27 | 28°11 | 15°28 | 1°23 | 13°41 | 2°16 | 0°44 | 7°57 | 1°41 | M14 | |
| T 15 | 7 37 58 | 24°33'03 | 22°11 | 8°14 | 11°11 | 0°56 | 4°20 | 28°14 | 15°31 | 1°21 | 13°42 | 2° 6 | 0°41 | 8° 4 | 1°40 | T 15 | |
| W16 | 7 41 54 | 25°34'09 | 4♁24 | 9°42 | 12°27 | 1°35 | 4°12 | 28°16 | 15°35 | 1°19 | 13°42 | 1°56 | 0°38 | 8°10 | 1°38 | W16 | |
| T 17 | 7 45 51 | 26°35'16 | 16°47 | 11°11 | 13°42 | 2°13 | 4° 5 | 28°18 | 15°38 | 1°17 | 13°43 | 1°48 | 0°35 | 8°17 | 1°37 | T 17 | |
| F 18 | 7 49 48 | 27°36'22 | 29°21 | 12°40 | 14°58 | 2°51 | 3°58 | 28°20 | 15°41 | 1°16 | 13°43 | 1°41 | 0°31 | 8°24 | 1°35 | F 18 | |
| S 19 | 7 53 44 | 28°37'29 | 12♁10 | 14°10 | 16°13 | 3°30 | 3°52 | 28°23 | 15°44 | 1°14 | 13°44 | 1°37 | 0°28 | 8°30 | 1°34 | S 19 | |
| S 20 | 7 57 41 | 29°38'35 | 25°16 | 15°41 | 17°28 | 4° 8 | 3°45 | 28°24 | 15°46 | 1°12 | 13°44 | 1°D36 | 0°25 | 8°37 | 1°33 | S 20 | |
| M21 | 8 1 37 | 0♁39'42 | 8♁42 | 17°11 | 18°44 | 4°46 | 3°39 | 28°26 | 15°49 | 1°11 | 13°45 | 1°36 | 0°22 | 8°44 | 1°31 | M21 | |
| T 22 | 8 5 34 | 1°40'49 | 22°31 | 18°43 | 19°59 | 5°25 | 3°32 | 28°28 | 15°52 | 1° 9 | 13°45 | 1°37 | 0°19 | 8°50 | 1°30 | T 22 | |
| W23 | 8 9 30 | 2°41'56 | 6♁44 | 20°15 | 21°14 | 6° 3 | 3°26 | 28°30 | 15°55 | 1° 7 | 13°46 | 1°R37 | 0°15 | 8°57 | 1°29 | W23 | |
| T 24 | 8 13 27 | 3°43'02 | 21°20 | 21°47 | 22°30 | 6°41 | 3°20 | 28°31 | 15°58 | 1° 6 | 13°47 | 1°35 | 0°12 | 9° 4 | 1°28 | T 24 | |
| F 25 | 8 17 23 | 4°44'09 | 6♁15 | 23°20 | 23°45 | 7°19 | 3°14 | 28°32 | 16° 1 | 1° 4 | 13°47 | 1°31 | 0° 9 | 9°11 | 1°27 | F 25 | |
| S 26 | 8 21 20 | 5°45'15 | 21°22 | 24°54 | 25° 1 | 7°58 | 3° 8 | 28°34 | 16° 3 | 1° 2 | 13°48 | 1°24 | 0° 6 | 9°17 | 1°26 | S 26 | |
| S 27 | 8 25 17 | 6°46'21 | 6♁33 | 26°28 | 26°16 | 8°36 | 3° 2 | 28°35 | 16° 6 | 1° 1 | 13°49 | 1°15 | 0° 3 | 9°24 | 1°25 | S 27 | |
| M28 | 8 29 13 | 7°47'26 | 21°37 | 28° 2 | 27°31 | 9°14 | 2°57 | 28°36 | 16° 9 | 0°59 | 13°49 | 1° 5 | 29♁59 | 9°31 | 1°24 | M28 | |
| T 29 | 8 33 10 | 8°48'31 | 6♁33 | 29°37 | 28°47 | 9°53 | 2°52 | 28°37 | 16°11 | 0°57 | 13°50 | 0°54 | 29°56 | 9°37 | 1°24 | T 29 | |
| W30 | 8 37 6 | 9°49'34 | 20°44 | 1♁13 | 0♁ 2 | 10°31 | 2°46 | 28°38 | 16°14 | 0°56 | 13°51 | 0°44 | 29°53 | 9°44 | 1°23 | W30 | |
| T 31 | 8 41 3 | 10♁50'37 | 4♁36 | 2♁49 | 1♁17 | 11♁ 9 | 2♁41 | 28♁39 | 16♁17 | 0♁54 | 13♁51 | 0♁37 | 29♁50 | 9♁51 | 1♁22 | T 31 | |

Delta T = 18m22s

FEBRUARY 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|-----|
| F 1 | 8 44 59 | 11♁51'39 | 17♁58 | 4♁26 | 2♁33 | 11♁47 | 2°R37 | 28♁39 | 16♁19 | 0°R52 | 13♁52 | 0°R32 | 29♁47 | 9♁57 | 1°R22 | F 1 | |
| S 2 | 8 48 56 | 12°52'40 | 0♁52 | 6° 3 | 3°48 | 12°26 | 2♁32 | 28°40 | 16°21 | 0♁51 | 13°53 | 0♁30 | 29°44 | 10° 4 | 1♁21 | S 2 | |
| S 3 | 8 52 52 | 13°53'40 | 13°23 | 7°41 | 5° 4 | 13° 4 | 2°27 | 28°40 | 16°24 | 0°49 | 13°54 | 0°D29 | 29°41 | 10°11 | 1°21 | S 3 | |
| M 4 | 8 56 49 | 14°54'40 | 25°34 | 9°19 | 6°19 | 13°42 | 2°23 | 28°41 | 16°26 | 0°47 | 13°55 | 0°R29 | 29°37 | 10°17 | 1°20 | M 4 | |
| T 5 | 9 0 46 | 15°55'38 | 7♁33 | 10°58 | 7°34 | 14°20 | 2°19 | 28°41 | 16°29 | 0°46 | 13°56 | 0°29 | 29°34 | 10°24 | 1°20 | T 5 | |
| W 6 | 9 4 42 | 16°56'35 | 19°23 | 12°38 | 8°50 | 14°58 | 2°15 | 28°R41 | 16°31 | 0°44 | 13°56 | 0°28 | 29°31 | 10°31 | 1°20 | W 6 | |
| T 7 | 9 8 39 | 17°57'30 | 1♁10 | 14°19 | 10° 5 | 15°37 | 2°11 | 28°41 | 16°33 | 0°42 | 13°57 | 0°24 | 29°28 | 10°37 | 1°20 | T 7 | |
| F 8 | 9 12 35 | 18°58'25 | 12°59 | 16° 0 | 11°20 | 16°15 | 2° 8 | 28°41 | 16°35 | 0°41 | 13°58 | 0°17 | 29°25 | 10°44 | 1°20 | F 8 | |
| S 9 | 9 16 32 | 19°59'19 | 24°52 | 17°41 | 12°35 | 16°53 | 2° 5 | 28°41 | 16°37 | 0°39 | 13°59 | 0° 7 | 29°21 | 10°51 | 1°D20 | S 9 | |
| S 10 | 9 20 28 | 21° 0'12 | 6♁52 | 19°24 | 13°51 | 17°31 | 2° 1 | 28°40 | 16°40 | 0°38 | 14° 0 | 29♁55 | 29°18 | 10°57 | 1°20 | S 10 | |
| M11 | 9 24 25 | 22° 1'03 | 19° 0 | 21° 7 | 15° 6 | 18° 9 | 1°58 | 28°40 | 16°42 | 0°36 | 14° 1 | 29°41 | 29°15 | 11° 4 | 1°20 | M11 | |
| T 12 | 9 28 21 | 23° 1'53 | 1♁18 | 22°51 | 16°21 | 18°47 | 1°56 | 28°39 | 16°44 | 0°35 | 14° 2 | 29°26 | 29°12 | 11°11 | 1°20 | T 12 | |
| W13 | 9 32 18 | 24° 2'43 | 13°46 | 24°36 | 17°37 | 19°26 | 1°53 | 28°39 | 16°46 | 0°33 | 14° 3 | 29°12 | 29° 9 | 11°17 | 1°20 | W13 | |
| T 14 | 9 36 15 | 25° 3'31 | 26°24 | 26°21 | 18°52 | 20° 4 | 1°51 | 28°38 | 16°48 | 0°31 | 14° 4 | 29° 0 | 29° 6 | 11°24 | 1°21 | T 14 | |
| F 15 | 9 40 11 | 26° 4'18 | 9♁13 | 28° 7 | 20° 7 | 20°42 | 1°49 | 28°37 | 16°49 | 0°30 | 14° 5 | 28°51 | 29° 2 | 11°31 | 1°21 | F 15 | |
| S 16 | 9 44 8 | 27° 5'05 | 22°13 | 29°53 | 21°23 | 21°20 | 1°47 | 28°36 | 16°51 | 0°28 | 14° 6 | 28°45 | 28°59 | 11°37 | 1°21 | S 16 | |
| S 17 | 9 48 4 | 28° 5'50 | 5♁25 | 1♁41 | 22°38 | 21°58 | 1°45 | 28°35 | 16°53 | 0°27 | 14° 7 | 28°41 | 28°56 | 11°44 | 1°22 | S 17 | |
| M18 | 9 52 1 | 29° 6'35 | 18°52 | 3°29 | 23°53 | 22°36 | 1°43 | 28°34 | 16°55 | 0°26 | 14° 8 | 28°40 | 28°53 | 11°51 | 1°22 | M18 | |
| T 19 | 9 55 57 | 0♁ 7'19 | 2♁34 | 5°17 | 25° 8 | 23°14 | 1°42 | 28°33 | 16°56 | 0°24 | 14°10 | 28°40 | 28°50 | 11°57 | 1°23 | T 19 | |
| W20 | 9 59 54 | 1° 8'02 | 16°34 | 7° 6 | 26°24 | 23°52 | 1°41 | 28°31 | 16°58 | 0°23 | 14°11 | 28°40 | 28°47 | 12° 4 | 1°24 | W20 | |
| T 21 | 10 3 50 | 2° 8'43 | 0♁51 | 8°55 | 27°39 | 24°30 | 1°40 | 28°30 | 17° 0 | 0°21 | 14°12 | 28°38 | 28°43 | 12°11 | 1°24 | T 21 | |
| F 22 | 10 7 47 | 3° 9'24 | 15°24 | 10°45 | 28°54 | 25° 8 | 1°39 | 28°28 | 17° 1 | 0°20 | 14°13 | 28°33 | 28°40 | 12°18 | 1°25 | F 22 | |
| S 23 | 10 11 44 | 4°10'04 | 0♁ 8 | 12°35 | 0♁ 9 | 25°46 | 1°38 | 28°26 | 17° 3 | 0°19 | 14°14 | 28°26 | 28°37 | 12°24 | 1°26 | S 23 | |
| S 24 | 10 15 40 | 5°10'42 | 14°58 | 14°25 | 1°24 | 26°24 | 1°38 | 28°25 | 17° 4 | 0°17 | 14°15 | 28°16 | 28°34 | 12°31 | 1°27 | S 24 | |
| M25 | 10 19 37 | 6°11'19 | 29°44 | 16°14 | 2°40 | 27° 2 | 1°D38 | 28°23 | 17° 5 | 0°16 | 14°17 | 28° 4 | 28°31 | 12°38 | 1°28 | M25 | |
| T 26 | 10 23 33 | 7°11'55 | 14♁20 | 18° 4 | 3°55 | 27°40 | 1°38 | 28°21 | 17° 7 | 0°15 | 14°18 | 27°52 | 28°27 | 12°44 | 1°29 | T 26 | |
| W27 | 10 27 30 | 8°12'29 | 28°36 | 19°52 | 5°10 | 28°18 | 1°38 | 28°19 | 17° 8 | 0°13 | 14°19 | 27°40 | 28°24 | 12°51 | 1°30 | W27 | |
| T 28 | 10 31 26 | 9♁13'01 | 12♁27 | 21♁40 | 6♁25 | 28♁56 | 1♁38 | 28♁17 | 17♁ 9 | 0♁12 | 14♁20 | 27♁31 | 28♁21 | 12♁58 | 1♁32 | T 28 | |

Delta T = 18m22s

ASTRODIENST EPHEMERIS for the year 2571

geocentric

MARCH 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♆ | Day |
|------|----------|------------------------|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|------|
| F 1 | 10 35 23 | 10 ¹³ 13'32 | 25 ⁵ 52 | 23 ³⁰ 27 | 7 ⁴⁰ 40 | 29 ¹² 34 | 1 ³⁹ 39 | 28°R14 | 17 ¹⁰ 10 | 0°R11 | 14 ²¹ 21 | 27°R25 | 28 ¹⁸ 18 | 13 ⁴ 4 | 1 ³³ 33 | F 1 |
| S 2 | 10 39 19 | 11°14'01 | 8 ⁵⁰ 50 | 25°12 | 8°56 | 0 ¹² 12 | 1°40 | 28 ¹² 12 | 17°12 | 0 ¹⁰ 10 | 14°23 | 27 ²² 22 | 28°15 | 13°11 | 1°34 | S 2 |
| S 3 | 10 43 16 | 12°14'29 | 21°25 | 26°55 | 10°11 | 0°50 | 1°41 | 28° 9 | 17°13 | 0° 8 | 14°24 | 27°20 | 28°12 | 13°18 | 1°36 | S 3 |
| M 4 | 10 47 13 | 13°14'54 | 3 ⁴⁰ 40 | 28°36 | 11°26 | 1°27 | 1°42 | 28° 7 | 17°14 | 0° 7 | 14°25 | 27°D20 | 28° 8 | 13°24 | 1°37 | M 4 |
| T 5 | 10 51 9 | 14°15'18 | 15°42 | 0 ¹³ 13 | 12°41 | 2° 5 | 1°44 | 28° 4 | 17°15 | 0° 6 | 14°27 | 27°R20 | 28° 5 | 13°31 | 1°39 | T 5 |
| W 6 | 10 55 6 | 15°15'40 | 27°34 | 1°47 | 13°56 | 2°43 | 1°45 | 28° 2 | 17°16 | 0° 5 | 14°28 | 27°20 | 28° 2 | 13°38 | 1°40 | W 6 |
| T 7 | 10 59 2 | 16°16'00 | 9 ²² 22 | 3°17 | 15°11 | 3°21 | 1°47 | 27°59 | 17°16 | 0° 4 | 14°29 | 27°17 | 27°59 | 13°44 | 1°42 | T 7 |
| F 8 | 11 2 59 | 17°16'17 | 21°13 | 4°42 | 16°26 | 3°58 | 1°49 | 27°56 | 17°17 | 0° 3 | 14°31 | 27°12 | 27°56 | 13°51 | 1°43 | F 8 |
| S 9 | 11 6 55 | 18°16'33 | 3 ⁹ 9 | 6° 1 | 17°41 | 4°36 | 1°51 | 27°53 | 17°18 | 0° 2 | 14°32 | 27° 4 | 27°52 | 13°58 | 1°45 | S 9 |
| S 10 | 11 10 52 | 19°16'48 | 15°15 | 7°15 | 18°56 | 5°14 | 1°54 | 27°50 | 17°19 | 0° 1 | 14°33 | 26°54 | 27°49 | 14° 4 | 1°47 | S 10 |
| M 11 | 11 14 48 | 20°17'00 | 27°33 | 8°22 | 20°11 | 5°51 | 1°56 | 27°47 | 17°19 | 0° 0 | 14°35 | 26°42 | 27°46 | 14°11 | 1°49 | M 11 |
| T 12 | 11 18 45 | 21°17'10 | 10 ⁴ 4 | 9°22 | 21°26 | 6°29 | 1°59 | 27°44 | 17°20 | 29 ⁵⁹ 59 | 14°36 | 26°30 | 27°43 | 14°18 | 1°51 | T 12 |
| W 13 | 11 22 41 | 22°17'19 | 22°48 | 10°14 | 22°41 | 7° 7 | 2° 2 | 27°40 | 17°20 | 29°58 | 14°37 | 26°18 | 27°40 | 14°25 | 1°53 | W 13 |
| T 14 | 11 26 38 | 23°17'25 | 5 ⁴⁶ 46 | 10°58 | 23°56 | 7°44 | 2° 5 | 27°37 | 17°21 | 29°57 | 14°39 | 26° 8 | 27°37 | 14°31 | 1°55 | T 14 |
| F 15 | 11 30 35 | 24°17'30 | 18°56 | 11°34 | 25°11 | 8°22 | 2° 9 | 27°33 | 17°21 | 29°56 | 14°40 | 26° 0 | 27°33 | 14°38 | 1°57 | F 15 |
| S 16 | 11 34 31 | 25°17'33 | 2 ¹⁷ 17 | 12° 0 | 26°26 | 8°59 | 2°12 | 27°30 | 17°22 | 29°56 | 14°41 | 25°55 | 27°30 | 14°45 | 1°59 | S 16 |
| S 17 | 11 38 28 | 26°17'35 | 15°48 | 12°18 | 27°41 | 9°37 | 2°16 | 27°26 | 17°22 | 29°55 | 14°43 | 25°53 | 27°27 | 14°51 | 2° 1 | S 17 |
| M 18 | 11 42 24 | 27°17'35 | 29°29 | 12°R27 | 28°56 | 10°14 | 2°20 | 27°23 | 17°22 | 29°54 | 14°44 | 25°D52 | 27°24 | 14°58 | 2° 4 | M 18 |
| T 19 | 11 46 21 | 28°17'34 | 13 ¹⁷ 17 | 12°26 | 0 ¹¹ 11 | 10°52 | 2°24 | 27°19 | 17°22 | 29°53 | 14°46 | 25°53 | 27°21 | 15° 5 | 2° 6 | T 19 |
| W 20 | 11 50 17 | 29°17'31 | 27°18 | 12°17 | 1°26 | 11°29 | 2°28 | 27°15 | 17°23 | 29°53 | 14°47 | 25°R54 | 27°18 | 15°11 | 2° 8 | W 20 |
| T 21 | 11 54 14 | 0 ¹⁷ 17 | 11 ²⁶ 26 | 11°59 | 2°41 | 12° 7 | 2°33 | 27°11 | 17°23 | 29°52 | 14°49 | 25°53 | 27°14 | 15°18 | 2°11 | T 21 |
| F 22 | 11 58 10 | 1°17'20 | 25°41 | 11°34 | 3°55 | 12°44 | 2°37 | 27° 7 | 17°R23 | 29°51 | 14°50 | 25°51 | 27°11 | 15°25 | 2°13 | F 22 |
| S 23 | 12 2 7 | 2°17'13 | 10 ² 2 | 11° 1 | 5°10 | 13°21 | 2°42 | 27° 3 | 17°23 | 29°51 | 14°51 | 25°46 | 27° 8 | 15°31 | 2°16 | S 23 |
| S 24 | 12 6 4 | 3°17'03 | 24°25 | 10°22 | 6°25 | 13°58 | 2°47 | 26°59 | 17°23 | 29°50 | 14°53 | 25°39 | 27° 5 | 15°38 | 2°18 | S 24 |
| M 25 | 12 10 0 | 4°16'52 | 8 ⁴³ 43 | 9°37 | 7°40 | 14°36 | 2°52 | 26°55 | 17°23 | 29°50 | 14°54 | 25°31 | 27° 2 | 15°45 | 2°21 | M 25 |
| T 26 | 12 13 57 | 5°16'39 | 22°53 | 8°47 | 8°55 | 15°13 | 2°57 | 26°51 | 17°22 | 29°49 | 14°56 | 25°22 | 26°58 | 15°51 | 2°23 | T 26 |
| W 27 | 12 17 53 | 6°16'24 | 6 ⁴⁹ 49 | 7°55 | 10° 9 | 15°50 | 3° 3 | 26°47 | 17°22 | 29°49 | 14°57 | 25°14 | 26°55 | 15°58 | 2°26 | W 27 |
| T 28 | 12 21 50 | 7°16'07 | 20°26 | 7° 0 | 11°24 | 16°27 | 3° 8 | 26°43 | 17°22 | 29°48 | 14°59 | 25° 8 | 26°52 | 16° 5 | 2°29 | T 28 |
| F 29 | 12 25 46 | 8°15'48 | 3 ⁴² 42 | 6° 5 | 12°39 | 17° 4 | 3°14 | 26°39 | 17°22 | 29°48 | 15° 0 | 25° 4 | 26°49 | 16°12 | 2°32 | F 29 |
| S 30 | 12 29 43 | 9°15'27 | 16°36 | 5°10 | 13°54 | 17°41 | 3°20 | 26°34 | 17°21 | 29°47 | 15° 2 | 25° 1 | 26°46 | 16°18 | 2°35 | S 30 |
| S 31 | 12 33 39 | 10 ¹⁵ 15'04 | 29 ⁸ 11 | 4 ¹⁶ 16 | 15 ⁸ 8 | 18 ¹⁸ 18 | 3 ²⁶ 26 | 26 ³⁰ 30 | 17 ²¹ 21 | 29 ⁴⁷ 47 | 15 ³ 3 | 25°D 1 | 26 ⁴³ 43 | 16 ²⁵ 25 | 2 ³⁸ 38 | S 31 |

Delta T = 18m22s

APRIL 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♆ | Day |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|------|
| M 1 | 12 37 36 | 11 ¹⁴ 14'39 | 11 ²⁷ 27 | 3°R25 | 16 ²³ 23 | 18 ⁵⁵ 55 | 3 ³³ 33 | 26°R26 | 17°R20 | 29°R47 | 15° ⁵ 5 | 25 ² 2 | 26 ³⁹ 39 | 16 ³² 32 | 2 ⁴⁰ 40 | M 1 |
| T 2 | 12 41 33 | 12°14'11 | 23°31 | 2 ³⁷ 37 | 17°38 | 19°32 | 3°39 | 26°21 | 17°20 | 29°46 | 15° 6 | 25° 4 | 26°36 | 16°38 | 2°43 | T 2 |
| W 3 | 12 45 29 | 13°13'42 | 5 ²⁵ 25 | 1°53 | 18°52 | 20° 9 | 3°46 | 26°17 | 17°19 | 29°46 | 15° 8 | 25° 5 | 26°33 | 16°45 | 2°47 | W 3 |
| T 4 | 12 49 26 | 14°13'10 | 17°16 | 1°14 | 20° 7 | 20°46 | 3°52 | 26°12 | 17°18 | 29°46 | 15° 9 | 25°R 5 | 26°30 | 16°52 | 2°50 | T 4 |
| F 5 | 12 53 22 | 15°12'36 | 29° 8 | 0°40 | 21°21 | 21°22 | 3°59 | 26° 8 | 17°18 | 29°46 | 15°11 | 25° 4 | 26°27 | 16°58 | 2°53 | F 5 |
| S 6 | 12 57 19 | 16°11'59 | 11 ⁶ 6 | 0°11 | 22°36 | 21°59 | 4° 6 | 26° 3 | 17°17 | 29°45 | 15°12 | 25° 1 | 26°24 | 17° 5 | 2°56 | S 6 |
| S 7 | 13 1 15 | 17°11'20 | 23°15 | 29 ⁴⁹ 49 | 23°50 | 22°36 | 4°13 | 25°59 | 17°16 | 29°45 | 15°14 | 24°57 | 26°20 | 17°12 | 2°59 | S 7 |
| M 8 | 13 5 12 | 18°10'39 | 5 ³⁸ 38 | 29°32 | 25° 5 | 23°12 | 4°21 | 25°54 | 17°15 | 29°45 | 15°15 | 24°51 | 26°17 | 17°18 | 3° 2 | M 8 |
| T 9 | 13 9 8 | 19° 9'56 | 18°18 | 29°21 | 26°19 | 23°49 | 4°28 | 25°49 | 17°15 | 29°45 | 15°16 | 24°45 | 26°14 | 17°25 | 3° 6 | T 9 |
| W 10 | 13 13 5 | 20° 9'10 | 1 ¹⁶ 16 | 29°D15 | 27°34 | 24°25 | 4°36 | 25°45 | 17°14 | 29°D45 | 15°18 | 24°39 | 26°11 | 17°32 | 3° 9 | W 10 |
| T 11 | 13 17 1 | 21° 8'23 | 14°31 | 29°16 | 28°48 | 25° 2 | 4°43 | 25°40 | 17°13 | 29°45 | 15°19 | 24°33 | 26° 8 | 17°38 | 3°12 | T 11 |
| F 12 | 13 20 58 | 22° 7'33 | 28° 3 | 29°22 | 0 ³ 3 | 25°38 | 4°51 | 25°35 | 17°12 | 29°45 | 15°21 | 24°30 | 26° 4 | 17°45 | 3°16 | F 12 |
| S 13 | 13 24 55 | 23° 6'42 | 11 ⁵⁰ 50 | 29°33 | 1°17 | 26°14 | 4°59 | 25°31 | 17°11 | 29°45 | 15°22 | 24°27 | 26° 1 | 17°52 | 3°19 | S 13 |
| S 14 | 13 28 51 | 24° 5'48 | 25°47 | 29°49 | 2°31 | 26°51 | 5° 7 | 25°26 | 17° 9 | 29°45 | 15°24 | 24°D27 | 25°58 | 17°59 | 3°23 | S 14 |
| M 15 | 13 32 48 | 25° 4'53 | 9 ⁵² 52 | 0 ¹⁰ 10 | 3°46 | 27°27 | 5°16 | 25°21 | 17° 8 | 29°46 | 15°25 | 24°28 | 25°55 | 18° 5 | 3°26 | M 15 |
| T 16 | 13 36 44 | 26° 3'56 | 24° 3 | 0°36 | 5° 0 | 28° 3 | 5°24 | 25°17 | 17° 7 | 29°46 | 15°27 | 24°29 | 25°52 | 18°12 | 3°30 | T 16 |
| W 17 | 13 40 41 | 27° 2'57 | 8 ¹⁵ 15 | 1° 6 | 6°14 | 28°39 | 5°33 | 25°12 | 17° 6 | 29°46 | 15°28 | 24°30 | 25°49 | 18°19 | 3°33 | W 17 |
| T 18 | 13 44 37 | 28° 1'57 | 22°28 | 1°41 | 7°29 | 29°15 | 5°41 | 25° 8 | 17° 4 | 29°46 | 15°30 | 24°R31 | 25°45 | 18°25 | 3°37 | T 18 |
| F 19 | 13 48 34 | 29° 0'55 | 6 ³⁹ 39 | 2°19 | 8°43 | 29°51 | 5°50 | 25° 3 | 17° 3 | 29°47 | 15°31 | 24°31 | 25°42 | 18°32 | 3°41 | F 19 |
| S 20 | 13 52 30 | 29°59'51 | 20°45 | 3° 1 | 9°57 | 0 ²⁷ 27 | 5°59 | 24°58 | 17° 2 | 29°47 | 15°33 | 24°30 | 25°39 | 18°39 | 3°44 | S 20 |
| S 21 | 13 56 27 | 0 ⁵⁸ 46 | 4 ⁴⁶ 46 | 3°47 | 11°11 | 1° 3 | 6° 8 | 24°54 | 17° 0 | 29°47 | 15°34 | 24°28 | 25°36 | 18°45 | 3°48 | S 21 |
| M 22 | 14 0 24 | 1°57'38 | 18°38 | 4°37 | 12°26 | 1°38 | 6°17 | 24°49 | 16°59 | 29°48 | 15°35 | 24°25 | 25°33 | 18°52 | 3°52 | M 22 |
| T 23 | 14 4 20 | 2°56'29 | 2 ¹⁹ 19 | 5°29 | 13°40 | 2°14 | 6°26 | 24°44 | 16°57 | 29°48 | 15°37 | 24°21 | 25°29 | 18°59 | 3°55 | T 23 |
| W 24 | 14 8 17 | 3°55'18 | 15°47 | 6°25 | 14°54 | 2°49 | 6°35 | 24°40 | 16°56 | 29°48 | 15°38 | 24°18 | 25°26 | 19° 6 | 3°59 | W 24 |
| T 25 | 14 12 13 | 4°54'06 | 29° 1 | 7°23 | 16° 8 | 3°25 | 6°45 | 24°35 | 16°54 | 29°49 | 15°40 | 24°16 | 25°23 | 19°12 | 4° 3 | T 25 |
| F 26 | 14 16 10 | 5°52'51 | 11 ⁵⁸ 58 | 8°25 | 17°22 | 4° 0 | 6°55 | 24°31 | 16°52 | 29°49 | 15°41 | 24°15 | 25°20 | 19°19 | 4° 7 | F 26 |
| S 27 | 14 20 6 | 6°51'35 | 24°40 | 9°29 | 18°36 | 4°36 | 7° 4 | 24°26 | 16°51 | 29°50 | 15°42 | 24°D14 | 25°17 | 19°26 | 4°11 | S 27 |
| S 28 | 14 24 3 | 7°50'16 | 7 ⁷ 7 | 10°36 | 19°50 | 5°11 | 7°14 | 24°22 | 16°49 | 29°51 | 15°44 | 24°15 | 25°14 | 19°32 | 4°15 | S 28 |
| M 29 | 14 27 59 | 8°48'56 | 19°20 | 11°45 | 21° 4 | 5°46 | 7°24 | 24°17 | 16°47 | 29°51 | 15°45 | 24°16 | 25°10 | 19°39 | 4°19 | M 29 |
| T 30 | 14 31 56 | 9 ⁴⁷ 33 | 1 ²² 22 | 12 ⁵⁶ 56 | 22 ¹⁹ 19 | 6 ²¹ 21 | 7 ³⁴ 34 | 24 ¹³ 13 | 16 ⁴⁵ 45 | 29 ⁵² 52 | 15 ⁴⁷ 47 | 24 ¹⁷ 17 | 25 ⁷ 7 | 19 ⁴⁶ 46 | 4 ²³ 23 | T 30 |

Delta T = 18m23s

ASTRODIENST EPHEMERIS for the year 2571
geocentric

MAY 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|-------|------|------|-----|
| W 1 | 14 35 53 | 10♄46'09 | 13♁17 | 14♃10 | 23♄33 | 6♁56 | 7♁44 | 24°R 8 | 16°R44 | 29♁53 | 15♃48 | 24♂18 | 25♂4 | 19♁52 | 4♂27 | W 1 | |
| T 2 | 14 39 49 | 11°44'42 | 25° 8 | 15°26 | 24°46 | 7°30 | 7°54 | 24♁ 4 | 16♁42 | 29°53 | 15°49 | 24°19 | 25° 1 | 19°59 | 4°31 | T 2 | |
| F 3 | 14 43 46 | 12°43'13 | 7♂ 1 | 16°45 | 26° 0 | 8° 5 | 8° 4 | 24° 0 | 16°40 | 29°54 | 15°51 | 24°20 | 24°58 | 20° 6 | 4°35 | F 3 | |
| S 4 | 14 47 42 | 13°41'42 | 18°59 | 18° 5 | 27°14 | 8°40 | 8°15 | 23°56 | 16°38 | 29°55 | 15°52 | 24°R20 | 24°55 | 20°12 | 4°39 | S 4 | |
| S 5 | 14 51 39 | 14°40'09 | 1♃ 8 | 19°27 | 28°28 | 9°14 | 8°25 | 23°51 | 16°36 | 29°56 | 15°53 | 24°19 | 24°51 | 20°19 | 4°43 | S 5 | |
| M 6 | 14 55 35 | 15°38'33 | 13°32 | 20°52 | 29°42 | 9°48 | 8°36 | 23°47 | 16°34 | 29°56 | 15°55 | 24°19 | 24°48 | 20°26 | 4°47 | M 6 | |
| T 7 | 14 59 32 | 16°36'56 | 26°14 | 22°18 | 0♂56 | 10°23 | 8°47 | 23°43 | 16°32 | 29°57 | 15°56 | 24°18 | 24°45 | 20°33 | 4°51 | T 7 | |
| W 8 | 15 3 28 | 17°35'16 | 9♁17 | 23°47 | 2°10 | 10°57 | 8°57 | 23°39 | 16°30 | 29°58 | 15°57 | 24°17 | 24°42 | 20°39 | 4°55 | W 8 | |
| T 9 | 15 7 25 | 18°33'35 | 22°43 | 25°17 | 3°24 | 11°31 | 9° 8 | 23°35 | 16°28 | 29°59 | 15°59 | 24°16 | 24°39 | 20°46 | 4°59 | T 9 | |
| F 10 | 15 11 22 | 19°31'52 | 6♂30 | 26°49 | 4°37 | 12° 5 | 9°19 | 23°31 | 16°26 | 0♂ 0 | 16° 0 | 24°16 | 24°35 | 20°53 | 5° 3 | F 10 | |
| S 11 | 15 15 18 | 20°30'07 | 20°37 | 28°24 | 5°51 | 12°39 | 9°30 | 23°27 | 16°24 | 0° 1 | 16° 1 | 24°D16 | 24°32 | 20°59 | 5° 7 | S 11 | |
| S 12 | 15 19 15 | 21°28'20 | 5♁ 0 | 29°59 | 7° 5 | 13°12 | 9°41 | 23°23 | 16°21 | 0° 2 | 16° 2 | 24°16 | 24°29 | 21° 6 | 5°11 | S 12 | |
| M13 | 15 23 11 | 22°26'32 | 19°33 | 1♄38 | 8°18 | 13°46 | 9°52 | 23°20 | 16°19 | 0° 3 | 16° 4 | 24°16 | 24°26 | 21°13 | 5°16 | M13 | |
| T 14 | 15 27 8 | 23°24'42 | 4♁11 | 3°17 | 9°32 | 14°19 | 10° 4 | 23°16 | 16°17 | 0° 4 | 16° 5 | 24°16 | 24°23 | 21°19 | 5°20 | T 14 | |
| W15 | 15 31 4 | 24°22'51 | 18°47 | 4°59 | 10°46 | 14°52 | 10°15 | 23°12 | 16°15 | 0° 5 | 16° 6 | 24°R16 | 24°20 | 21°26 | 5°24 | W15 | |
| T 16 | 15 35 1 | 25°20'58 | 3♁16 | 6°43 | 11°59 | 15°25 | 10°26 | 23° 9 | 16°13 | 0° 6 | 16° 7 | 24°16 | 24°16 | 21°33 | 5°28 | T 16 | |
| F 17 | 15 38 57 | 26°19'04 | 17°34 | 8°28 | 13°13 | 15°58 | 10°38 | 23° 5 | 16°10 | 0° 8 | 16° 8 | 24°16 | 24°13 | 21°40 | 5°32 | F 17 | |
| S 18 | 15 42 54 | 27°17'08 | 1♁38 | 10°16 | 14°26 | 16°31 | 10°49 | 23° 2 | 16° 8 | 0° 9 | 16°10 | 24°D16 | 24°10 | 21°46 | 5°37 | S 18 | |
| S 19 | 15 46 51 | 28°15'12 | 15°28 | 12° 5 | 15°40 | 17° 4 | 11° 1 | 22°58 | 16° 6 | 0°10 | 16°11 | 24°16 | 24° 7 | 21°53 | 5°41 | S 19 | |
| M20 | 15 50 47 | 29°13'13 | 29° 1 | 13°56 | 16°53 | 17°36 | 11°13 | 22°55 | 16° 3 | 0°11 | 16°12 | 24°16 | 24° 4 | 22° 0 | 5°45 | M20 | |
| T 21 | 15 54 44 | 0♂11'14 | 12♃20 | 15°49 | 18° 7 | 18° 9 | 11°25 | 22°52 | 16° 1 | 0°13 | 16°13 | 24°17 | 24° 1 | 22° 6 | 5°49 | T 21 | |
| W22 | 15 58 40 | 1° 9'13 | 25°24 | 17°44 | 19°20 | 18°41 | 11°36 | 22°49 | 15°59 | 0°14 | 16°14 | 24°17 | 23°57 | 22°13 | 5°54 | W22 | |
| T 23 | 16 2 37 | 2° 7'11 | 8♁14 | 19°41 | 20°34 | 19°13 | 11°48 | 22°45 | 15°56 | 0°15 | 16°15 | 24°18 | 23°54 | 22°20 | 5°58 | T 23 | |
| F 24 | 16 6 33 | 3° 5'08 | 20°51 | 21°40 | 21°47 | 19°45 | 12° 0 | 22°42 | 15°54 | 0°17 | 16°16 | 24°R18 | 23°51 | 22°26 | 6° 2 | F 24 | |
| S 25 | 16 10 30 | 4° 3'03 | 3♂16 | 23°41 | 23° 1 | 20°16 | 12°12 | 22°40 | 15°51 | 0°18 | 16°17 | 24°18 | 23°48 | 22°33 | 6° 6 | S 25 | |
| S 26 | 16 14 26 | 5° 0'57 | 15°30 | 25°43 | 24°14 | 20°48 | 12°24 | 22°37 | 15°49 | 0°19 | 16°18 | 24°17 | 23°45 | 22°40 | 6°11 | S 26 | |
| M27 | 16 18 23 | 5°58'49 | 27°36 | 27°47 | 25°27 | 21°19 | 12°37 | 22°34 | 15°46 | 0°21 | 16°19 | 24°16 | 23°41 | 22°47 | 6°15 | M27 | |
| T 28 | 16 22 20 | 6°56'40 | 9♁34 | 29°53 | 26°41 | 21°50 | 12°49 | 22°31 | 15°44 | 0°22 | 16°20 | 24°15 | 23°38 | 22°53 | 6°19 | T 28 | |
| W29 | 16 26 16 | 7°54'29 | 21°27 | 2♂ 0 | 27°54 | 22°21 | 13° 1 | 22°29 | 15°42 | 0°24 | 16°21 | 24°13 | 23°35 | 23° 0 | 6°24 | W29 | |
| T 30 | 16 30 13 | 8°52'16 | 3♂18 | 4° 8 | 29° 7 | 22°51 | 13°13 | 22°26 | 15°39 | 0°25 | 16°22 | 24°11 | 23°32 | 23° 7 | 6°28 | T 30 | |
| F 31 | 16 34 9 | 9♂50'02 | 15♁10 | 6♂17 | 0♁21 | 23♁22 | 13♁26 | 22♁24 | 15♁37 | 0♂27 | 16♃23 | 24♂ 9 | 23♂29 | 23♁13 | 6♂32 | F 31 | |

Delta T = 18m23s

JUNE 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|------|-------|--------|-------|-------|------|------|
| S 1 | 16 38 6 | 10♂47'47 | 27♂ 8 | 8♂28 | 1♁34 | 23♁52 | 13♁38 | 22°R22 | 15°R34 | 0♂28 | 16♃24 | 24°R 8 | 23♂26 | 23♁20 | 6♂36 | S 1 |
| S 2 | 16 42 2 | 11°45'30 | 9♂15 | 10°39 | 2°47 | 24°22 | 13°51 | 22♁19 | 15♁32 | 0°30 | 16°25 | 24°D 7 | 23°22 | 23°27 | 6°41 | S 2 |
| M 3 | 16 45 59 | 12°43'11 | 21°36 | 12°51 | 4° 0 | 24°51 | 14° 3 | 22°17 | 15°29 | 0°32 | 16°26 | 24♂ 7 | 23°19 | 23°34 | 6°45 | M 3 |
| T 4 | 16 49 55 | 13°40'51 | 4♁15 | 15° 3 | 5°13 | 25°21 | 14°16 | 22°15 | 15°27 | 0°33 | 16°27 | 24° 8 | 23°16 | 23°40 | 6°49 | T 4 |
| W 5 | 16 53 52 | 14°38'29 | 17°16 | 17°15 | 6°26 | 25°50 | 14°29 | 22°13 | 15°24 | 0°35 | 16°28 | 24° 9 | 23°13 | 23°47 | 6°53 | W 5 |
| T 6 | 16 57 49 | 15°36'06 | 0♂43 | 19°26 | 7°39 | 26°19 | 14°41 | 22°11 | 15°22 | 0°36 | 16°29 | 24°11 | 23°10 | 23°54 | 6°58 | T 6 |
| F 7 | 17 1 45 | 16°33'42 | 14°35 | 21°37 | 8°53 | 26°48 | 14°54 | 22°10 | 15°19 | 0°38 | 16°30 | 24°12 | 23° 7 | 24° 0 | 7° 2 | F 7 |
| S 8 | 17 5 42 | 17°31'16 | 28°53 | 23°47 | 10° 6 | 27°16 | 15° 7 | 22° 8 | 15°17 | 0°40 | 16°31 | 24°R12 | 23° 3 | 24° 7 | 7° 6 | S 8 |
| S 9 | 17 9 38 | 18°28'50 | 13♁32 | 25°56 | 11°19 | 27°44 | 15°20 | 22° 6 | 15°14 | 0°42 | 16°31 | 24°11 | 23° 0 | 24°14 | 7°10 | S 9 |
| M10 | 17 13 35 | 19°26'22 | 28°26 | 28° 4 | 12°31 | 28°12 | 15°32 | 22° 5 | 15°12 | 0°43 | 16°32 | 24° 9 | 22°57 | 24°20 | 7°15 | M10 |
| T 11 | 17 17 31 | 20°23'53 | 13♁28 | 0♁10 | 13°44 | 28°40 | 15°45 | 22° 3 | 15° 9 | 0°45 | 16°33 | 24° 6 | 22°54 | 24°27 | 7°19 | T 11 |
| W12 | 17 21 28 | 21°21'23 | 28°29 | 2°14 | 14°57 | 29° 7 | 15°58 | 22° 2 | 15° 7 | 0°47 | 16°34 | 24° 2 | 22°51 | 24°34 | 7°23 | W12 |
| T 13 | 17 25 25 | 22°18'52 | 13♁19 | 4°17 | 16°10 | 29°34 | 16°11 | 22° 1 | 15° 4 | 0°49 | 16°34 | 23°59 | 22°47 | 24°41 | 7°27 | T 13 |
| F 14 | 17 29 21 | 23°16'21 | 27°52 | 6°17 | 17°23 | 0♁ 1 | 16°24 | 22° 0 | 15° 2 | 0°51 | 16°35 | 23°56 | 22°44 | 24°47 | 7°31 | F 14 |
| S 15 | 17 33 18 | 24°13'49 | 12♁ 5 | 8°15 | 18°36 | 0°28 | 16°37 | 21°59 | 14°59 | 0°52 | 16°36 | 23°54 | 22°41 | 24°54 | 7°35 | S 15 |
| S 16 | 17 37 14 | 25°11'16 | 25°54 | 10°11 | 19°49 | 0°54 | 16°50 | 21°58 | 14°57 | 0°54 | 16°37 | 23°D53 | 22°38 | 25° 1 | 7°40 | S 16 |
| M17 | 17 41 11 | 26° 8'42 | 9♃20 | 12° 5 | 21° 1 | 1°19 | 17° 3 | 21°57 | 14°54 | 0°56 | 16°37 | 23°54 | 22°35 | 25° 7 | 7°44 | M17 |
| T 18 | 17 45 7 | 27° 6'09 | 22°26 | 13°56 | 22°14 | 1°45 | 17°17 | 21°56 | 14°52 | 0°58 | 16°38 | 23°55 | 22°32 | 25°14 | 7°48 | T 18 |
| W19 | 17 49 4 | 28° 3'34 | 5♁14 | 15°44 | 23°27 | 2°10 | 17°30 | 21°56 | 14°50 | 1° 0 | 16°38 | 23°57 | 22°28 | 25°21 | 7°52 | W19 |
| T 20 | 17 53 0 | 29° 0'59 | 17°46 | 17°30 | 24°39 | 2°35 | 17°43 | 21°55 | 14°47 | 1° 2 | 16°39 | 23°R58 | 22°25 | 25°28 | 7°56 | T 20 |
| F 21 | 17 56 57 | 29°58'24 | 0♂ 6 | 19°14 | 25°52 | 2°59 | 17°56 | 21°55 | 14°45 | 1° 4 | 16°40 | 23°58 | 22°22 | 25°34 | 8° 0 | F 21 |
| S 22 | 18 0 54 | 0♁55'47 | 12°17 | 20°55 | 27° 5 | 3°23 | 18° 9 | 21°55 | 14°42 | 1° 6 | 16°40 | 23°56 | 22°19 | 25°41 | 8° 4 | S 22 |
| S 23 | 18 4 50 | 1°53'11 | 24°20 | 22°33 | 28°17 | 3°46 | 18°23 | 21°55 | 14°40 | 1° 8 | 16°41 | 23°53 | 22°16 | 25°48 | 8° 8 | S 23 |
| M24 | 18 8 47 | 2°50'33 | 6♁17 | 24° 9 | 29°30 | 4° 9 | 18°36 | 21°D54 | 14°38 | 1°10 | 16°41 | 23°48 | 22°13 | 25°54 | 8°12 | M24 |
| T 25 | 18 12 43 | 3°47'55 | 18°11 | 25°43 | 0♂42 | 4°32 | 18°49 | 21°54 | 14°35 | 1°12 | 16°42 | 23°41 | 22° 9 | 26° 1 | 8°16 | T 25 |
| W26 | 18 16 40 | 4°45'16 | 0♂ 2 | 27°13 | 1°55 | 4°54 | 19° 3 | 21°55 | 14°33 | 1°14 | 16°42 | 23°34 | 22° 6 | 26° 8 | 8°20 | W26 |
| T 27 | 18 20 36 | 5°42'37 | 11°53 | 28°41 | 3° 7 | 5°16 | 19°16 | 21°55 | 14°31 | 1°16 | 16°43 | 23°26 | 22° 3 | 26°14 | 8°24 | T 27 |
| F 28 | 18 24 33 | 6°39'57 | 23°47 | 0♂ 7 | 4°20 | 5°38 | 19°30 | 21°55 | 14°29 | 1°18 | 16°43 | 23°19 | 22° 0 | 26°21 | 8°28 | F 28 |
| S 29 | 18 28 29 | 7°37'16 | 5♂45 | 1°29 | 5°32 | 5°58 | 19°43 | 21°55 | 14°26 | 1°20 | 16°43 | 23°13 | 21°57 | 26°28 | 8°32 | S 29 |
| S 30 | 18 32 26 | 8♁34'34 | 17♂51 | 2♂49 | 6♂44 | 6♁19 | 19♁56 | 21♁56 | 14♁24 | 1♂22 | 16♃44 | 23♂ 9 | 21♂53 | 26♁35 | 8♂36 | S 30 |

Delta T = 18m23s

ASTRODIENST EPHEMERIS for the year 2571
geocentric

JULY 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|-------|---------|------|
| M 1 | 18 36 23 | 9♄31'51 | 0♄10 | 4♄ 6 | 7♄57 | 6♄39 | 20♄10 | 21♄57 | 14♄R22 | 1♄24 | 16♄V44 | 23°R 7 | 21♄M50 | 26♄41 | 8♄II39 | M 1 |
| T 2 | 18 40 19 | 10°29'08 | 12°45 | 5°20 | 9° 9 | 6°58 | 20°23 | 21°57 | 14♄R20 | 1°26 | 16°45 | 23°D 6 | 21°47 | 26°48 | 8°43 | T 2 |
| W 3 | 18 44 16 | 11°26'24 | 25°41 | 6°32 | 10°21 | 7°17 | 20°37 | 21°58 | 14°18 | 1°28 | 16°45 | 23♄M 7 | 21°44 | 26°55 | 8°47 | W 3 |
| T 4 | 18 48 12 | 12°23'40 | 9♄M 2 | 7°40 | 11°33 | 7°36 | 20°50 | 21°59 | 14°16 | 1°31 | 16°45 | 23° 8 | 21°41 | 27° 1 | 8°51 | T 4 |
| F 5 | 18 52 9 | 13°20'55 | 22°50 | 8°45 | 12°45 | 7°54 | 21° 4 | 22° 0 | 14°14 | 1°33 | 16°45 | 23°R 9 | 21°38 | 27° 8 | 8°55 | F 5 |
| S 6 | 18 56 5 | 14°18'09 | 7♄ 6 | 9°48 | 13°57 | 8°11 | 21°17 | 22° 1 | 14°11 | 1°35 | 16°46 | 23° 8 | 21°34 | 27°15 | 8°58 | S 6 |
| S 7 | 19 0 2 | 15°15'23 | 21°47 | 10°47 | 15° 9 | 8°28 | 21°31 | 22° 2 | 14° 9 | 1°37 | 16°46 | 23° 5 | 21°31 | 27°22 | 9° 2 | S 7 |
| M 8 | 19 3 58 | 16°12'37 | 6♄50 | 11°43 | 16°21 | 8°45 | 21°44 | 22° 4 | 14° 7 | 1°39 | 16°46 | 23° 0 | 21°28 | 27°28 | 9° 6 | M 8 |
| T 9 | 19 7 55 | 17° 9'50 | 22° 5 | 12°35 | 17°33 | 9° 0 | 21°58 | 22° 5 | 14° 5 | 1°41 | 16°46 | 22°54 | 21°25 | 27°35 | 9° 9 | T 9 |
| W10 | 19 11 52 | 18° 7'03 | 7♄22 | 13°24 | 18°45 | 9°16 | 22°11 | 22° 7 | 14° 4 | 1°43 | 16°46 | 22°46 | 21°22 | 27°42 | 9°13 | W10 |
| T 11 | 19 15 48 | 19° 4'17 | 22°30 | 14° 9 | 19°57 | 9°30 | 22°25 | 22° 8 | 14° 2 | 1°46 | 16°47 | 22°38 | 21°19 | 27°48 | 9°16 | T 11 |
| F 12 | 19 19 45 | 20° 1'30 | 7♄19 | 14°51 | 21° 9 | 9°44 | 22°38 | 22°10 | 14° 0 | 1°48 | 16°47 | 22°31 | 21°15 | 27°55 | 9°20 | F 12 |
| S 13 | 19 23 41 | 20°58'43 | 21°43 | 15°28 | 22°21 | 9°58 | 22°52 | 22°12 | 13°58 | 1°50 | 16°47 | 22°25 | 21°12 | 28° 2 | 9°23 | S 13 |
| S 14 | 19 27 38 | 21°55'56 | 5♄V39 | 16° 2 | 23°33 | 10°10 | 23° 6 | 22°14 | 13°56 | 1°52 | 16°47 | 22°22 | 21° 9 | 28° 9 | 9°27 | S 14 |
| M15 | 19 31 34 | 22°53'10 | 19° 7 | 16°32 | 24°44 | 10°22 | 23°19 | 22°16 | 13°54 | 1°54 | 16°47 | 22°D21 | 21° 6 | 28°15 | 9°30 | M15 |
| T 16 | 19 35 31 | 23°50'24 | 2♄10 | 16°57 | 25°56 | 10°34 | 23°33 | 22°18 | 13°53 | 1°57 | 16°47 | 22°21 | 21° 3 | 28°22 | 9°34 | T 16 |
| W17 | 19 39 27 | 24°47'38 | 14°51 | 17°18 | 27° 7 | 10°45 | 23°46 | 22°20 | 13°51 | 1°59 | 16°R47 | 22°22 | 20°59 | 28°29 | 9°37 | W17 |
| T 18 | 19 43 24 | 25°44'53 | 27°14 | 17°35 | 28°19 | 10°55 | 24° 0 | 22°22 | 13°49 | 2° 1 | 16°47 | 22°R22 | 20°56 | 28°35 | 9°40 | T 18 |
| F 19 | 19 47 21 | 26°42'08 | 9♄I25 | 17°47 | 29°31 | 11° 4 | 24°13 | 22°25 | 13°48 | 2° 3 | 16°47 | 22°20 | 20°53 | 28°42 | 9°44 | F 19 |
| S 20 | 19 51 17 | 27°39'23 | 21°26 | 17°54 | 0♄42 | 11°13 | 24°27 | 22°27 | 13°46 | 2° 6 | 16°47 | 22°17 | 20°50 | 28°49 | 9°47 | S 20 |
| S 21 | 19 55 14 | 28°36'39 | 3♄21 | 17°R57 | 1°53 | 11°21 | 24°40 | 22°30 | 13°45 | 2° 8 | 16°47 | 22°10 | 20°47 | 28°56 | 9°50 | S 21 |
| M22 | 19 59 10 | 29°33'55 | 15°13 | 17°54 | 3° 5 | 11°28 | 24°54 | 22°32 | 13°43 | 2°10 | 16°47 | 22° 1 | 20°44 | 29° 2 | 9°53 | M22 |
| T 23 | 20 3 7 | 0♄I31'11 | 27° 4 | 17°47 | 4°16 | 11°34 | 25° 7 | 22°35 | 13°42 | 2°12 | 16°47 | 21°50 | 20°40 | 29° 9 | 9°56 | T 23 |
| W24 | 20 7 3 | 1°28'28 | 8♄J56 | 17°36 | 5°27 | 11°40 | 25°21 | 22°38 | 13°40 | 2°14 | 16°46 | 21°38 | 20°37 | 29°16 | 9°59 | W24 |
| T 25 | 20 11 0 | 2°25'45 | 20°49 | 17°19 | 6°39 | 11°45 | 25°34 | 22°41 | 13°39 | 2°17 | 16°46 | 21°25 | 20°34 | 29°22 | 10° 2 | T 25 |
| F 26 | 20 14 56 | 3°23'02 | 2♄47 | 16°59 | 7°50 | 11°49 | 25°48 | 22°44 | 13°38 | 2°19 | 16°46 | 21°13 | 20°31 | 29°29 | 10° 5 | F 26 |
| S 27 | 20 18 53 | 4°20'19 | 14°49 | 16°34 | 9° 1 | 11°53 | 26° 1 | 22°47 | 13°36 | 2°21 | 16°46 | 21° 3 | 20°28 | 29°36 | 10° 8 | S 27 |
| S 28 | 20 22 50 | 5°17'36 | 27° 0 | 16° 5 | 10°12 | 11°55 | 26°15 | 22°50 | 13°35 | 2°23 | 16°46 | 20°55 | 20°24 | 29°43 | 10°11 | S 28 |
| M29 | 20 26 46 | 6°14'52 | 9♄21 | 15°32 | 11°23 | 11°57 | 26°28 | 22°53 | 13°34 | 2°26 | 16°45 | 20°49 | 20°21 | 29°49 | 10°14 | M29 |
| T 30 | 20 30 43 | 7°12'14 | 21°56 | 14°56 | 12°34 | 11°58 | 26°42 | 22°57 | 13°33 | 2°28 | 16°45 | 20°47 | 20°18 | 29°56 | 10°17 | T 30 |
| W31 | 20 34 39 | 8♄ 9'30 | 4♄M49 | 14♄I18 | 13♄45 | 11°R59 | 26♄55 | 23♄ 0 | 13♄R32 | 2♄L30 | 16°V45 | 20°D46 | 20♄M15 | 0♄ 3 | 10♄II19 | W31 |

Delta T = 18m23s

AUGUST 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|-------|---------|------|
| T 1 | 20 38 36 | 9♄ 6'48 | 18♄ 3 | 13°R37 | 14♄56 | 11°R58 | 27♄ 9 | 23♄ 4 | 13°R31 | 2♄L32 | 16°R44 | 20°R46 | 20♄M12 | 0♄ 9 | 10♄II22 | T 1 |
| F 2 | 20 42 32 | 10° 4'07 | 1♄43 | 12♄55 | 16° 6 | 11°K57 | 27°22 | 23° 7 | 13°R30 | 2°34 | 16°V44 | 20♄M46 | 20° 9 | 0°16 | 10°25 | F 2 |
| S 3 | 20 46 29 | 11° 1'26 | 15°49 | 12°13 | 17°17 | 11°55 | 27°35 | 23°11 | 13°29 | 2°37 | 16°44 | 20°44 | 20° 5 | 0°23 | 10°27 | S 3 |
| S 4 | 20 50 25 | 11°58'45 | 0♄32 | 11°30 | 18°28 | 11°52 | 27°49 | 23°15 | 13°28 | 2°39 | 16°43 | 20°40 | 20° 2 | 0°30 | 10°30 | S 4 |
| M 5 | 20 54 22 | 12°56'04 | 15°18 | 10°49 | 19°38 | 11°49 | 28° 2 | 23°19 | 13°27 | 2°41 | 16°43 | 20°33 | 19°59 | 0°36 | 10°33 | M 5 |
| T 6 | 20 58 19 | 13°53'25 | 0♄30 | 10° 8 | 20°49 | 11°45 | 28°15 | 23°23 | 13°26 | 2°43 | 16°43 | 20°24 | 19°56 | 0°43 | 10°35 | T 6 |
| W 7 | 21 2 15 | 14°50'45 | 15°48 | 9°31 | 21°59 | 11°40 | 28°28 | 23°27 | 13°25 | 2°45 | 16°42 | 20°14 | 19°53 | 0°50 | 10°37 | W 7 |
| T 8 | 21 6 12 | 15°48'07 | 1♄ 1 | 8°56 | 23°10 | 11°34 | 28°42 | 23°31 | 13°24 | 2°48 | 16°42 | 20° 3 | 19°50 | 0°56 | 10°40 | T 8 |
| F 9 | 21 10 8 | 16°45'29 | 15°58 | 8°25 | 24°20 | 11°28 | 28°55 | 23°35 | 13°24 | 2°50 | 16°41 | 19°53 | 19°46 | 1° 3 | 10°42 | F 9 |
| S 10 | 21 14 5 | 17°42'52 | 0♄V30 | 7°58 | 25°30 | 11°20 | 29° 8 | 23°39 | 13°23 | 2°52 | 16°41 | 19°46 | 19°43 | 1°10 | 10°44 | S 10 |
| S 11 | 21 18 1 | 18°40'16 | 14°34 | 7°36 | 26°40 | 11°12 | 29°21 | 23°44 | 13°23 | 2°54 | 16°40 | 19°41 | 19°40 | 1°17 | 10°47 | S 11 |
| M12 | 21 21 58 | 19°37'41 | 28° 8 | 7°20 | 27°50 | 11° 4 | 29°34 | 23°48 | 13°22 | 2°56 | 16°40 | 19°38 | 19°37 | 1°23 | 10°49 | M12 |
| T 13 | 21 25 54 | 20°35'08 | 11♄14 | 7° 9 | 29° 0 | 10°54 | 29°47 | 23°53 | 13°21 | 2°58 | 16°39 | 19°37 | 19°34 | 1°30 | 10°51 | T 13 |
| W14 | 21 29 51 | 21°32'35 | 23°56 | 7°D 5 | 0♄10 | 10°45 | 0♄ 0 | 23°57 | 13°21 | 3° 1 | 16°39 | 19°37 | 19°30 | 1°37 | 10°53 | W14 |
| T 15 | 21 33 48 | 22°30'04 | 6♄I18 | 7° 6 | 1°20 | 10°34 | 0°13 | 24° 2 | 13°21 | 3° 3 | 16°38 | 19°36 | 19°27 | 1°43 | 10°55 | T 15 |
| F 16 | 21 37 44 | 23°27'34 | 18°25 | 7°15 | 2°30 | 10°23 | 0°26 | 24° 6 | 13°20 | 3° 5 | 16°37 | 19°35 | 19°24 | 1°50 | 10°57 | F 16 |
| S 17 | 21 41 41 | 24°25'06 | 0♄23 | 7°30 | 3°39 | 10°11 | 0°39 | 24°11 | 13°20 | 3° 7 | 16°37 | 19°31 | 19°21 | 1°57 | 10°59 | S 17 |
| S 18 | 21 45 37 | 25°22'38 | 12°15 | 7°52 | 4°49 | 9°59 | 0°52 | 24°16 | 13°20 | 3° 9 | 16°36 | 19°24 | 19°18 | 2° 4 | 11° 1 | S 18 |
| M19 | 21 49 34 | 26°20'12 | 24° 5 | 8°21 | 5°59 | 9°46 | 1° 5 | 24°21 | 13°20 | 3°11 | 16°35 | 19°14 | 19°15 | 2°10 | 11° 2 | M19 |
| T 20 | 21 53 30 | 27°17'47 | 5♄J56 | 8°56 | 7° 8 | 9°32 | 1°18 | 24°26 | 13°20 | 3°13 | 16°35 | 19° 2 | 19°11 | 2°17 | 11° 4 | T 20 |
| W21 | 21 57 27 | 28°15'23 | 17°51 | 9°39 | 8°17 | 9°18 | 1°30 | 24°31 | 13°19 | 3°15 | 16°34 | 18°49 | 19° 8 | 2°24 | 11° 6 | W21 |
| T 22 | 22 1 23 | 29°13'00 | 29°50 | 10°27 | 9°27 | 9° 4 | 1°43 | 24°36 | 13°D19 | 3°17 | 16°33 | 18°35 | 19° 5 | 2°30 | 11° 7 | T 22 |
| F 23 | 22 5 20 | 0♄I0'38 | 11♄55 | 11°23 | 10°36 | 8°50 | 1°56 | 24°41 | 13°19 | 3°19 | 16°33 | 18°22 | 19° 2 | 2°37 | 11° 9 | F 23 |
| S 24 | 22 9 17 | 1° 8'18 | 24° 8 | 12°25 | 11°45 | 8°35 | 2° 8 | 24°47 | 13°19 | 3°21 | 16°32 | 18°11 | 18°59 | 2°44 | 11°10 | S 24 |
| S 25 | 22 13 13 | 2° 5'58 | 6♄28 | 13°33 | 12°54 | 8°20 | 2°21 | 24°52 | 13°20 | 3°23 | 16°31 | 18° 3 | 18°56 | 2°51 | 11°12 | S 25 |
| M26 | 22 17 10 | 3° 3'40 | 18°59 | 14°47 | 14° 3 | 8° 4 | 2°33 | 24°57 | 13°20 | 3°25 | 16°30 | 17°57 | 18°52 | 2°57 | 11°13 | M26 |
| T 27 | 22 21 6 | 4° 1'23 | 1♄41 | 16° 6 | 15°12 | 7°49 | 2°46 | 25° 3 | 13°20 | 3°27 | 16°29 | 17°54 | 18°49 | 3° 4 | 11°14 | T 27 |
| W28 | 22 25 3 | 4°59'06 | 14°38 | 17°31 | 16°20 | 7°33 | 2°58 | 25° 8 | 13°20 | 3°29 | 16°29 | 17°D53 | 18°46 | 3°11 | 11°16 | W28 |
| T 29 | 22 28 59 | 5°56'51 | 27°53 | 19° 1 | 17°29 | 7°17 | 3°11 | 25°14 | 13°21 | 3°31 | 16°28 | 17°53 | 18°43 | 3°17 | 11°17 | T 29 |
| F 30 | 22 32 56 | 6°54'37 | 11♄27 | 20°35 | 18°38 | 7° 1 | 3°23 | 25°20 | 13°21 | 3°33 | 16°27 | 17°R53 | 18°40 | 3°24 | 11°18 | F 30 |
| S 31 | 22 36 52 | 7♄52'24 | 25♄24 | 22♄I14 | 19♄46 | 6♄K45 | 3♄L35 | 25♄25 | 13♄R21 | 3♄L35 | 16°V26 | 17♄M52 | 18♄M36 | 3♄L31 | 11♄II19 | S 31 |

Delta T = 18m24s

ASTRODIENST EPHEMERIS for the year 2571
geocentric

SEPTEMBER 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|--------|-------|-------|--------|--------|-------|--------|--------|--------|-------|--------|------|-----|
| S 1 | 22 40 49 | 8♎50'12 | 9♏44 | 23♌57 | 20♊54 | 6♋R29 | 3♄L47 | 25♌31 | 13♎22 | 3♄L37 | 16♋R25 | 17♋R49 | 18♌L33 | 3♄L38 | 11♎L20 | S 1 | |
| M 2 | 22 44 46 | 9°48'01 | 24°23 | 25°43 | 22° 2 | 6♋L14 | 4° 0 | 25°37 | 13°23 | 3°39 | 16♋Y24 | 17♌L43 | 18°30 | 3°44 | 11°21 | M 2 | |
| T 3 | 22 48 42 | 10°45'51 | 9♏19 | 27°31 | 23°11 | 5°58 | 4°12 | 25°43 | 13°23 | 3°41 | 16°23 | 17°35 | 18°27 | 3°51 | 11°22 | T 3 | |
| W 4 | 22 52 39 | 11°43'43 | 24°22 | 29°23 | 24°18 | 5°43 | 4°24 | 25°49 | 13°24 | 3°43 | 16°22 | 17°26 | 18°24 | 3°58 | 11°23 | W 4 | |
| T 5 | 22 56 35 | 12°41'36 | 9♋24 | 1♎16 | 25°26 | 5°28 | 4°36 | 25°55 | 13°24 | 3°45 | 16°21 | 17°16 | 18°21 | 4° 4 | 11°24 | T 5 | |
| F 6 | 23 0 32 | 13°39'30 | 24°14 | 3°11 | 26°34 | 5°13 | 4°47 | 26° 1 | 13°25 | 3°46 | 16°21 | 17° 7 | 18°17 | 4°11 | 11°24 | F 6 | |
| S 7 | 23 4 28 | 14°37'26 | 8♋Y44 | 5° 7 | 27°42 | 4°58 | 4°59 | 26° 7 | 13°26 | 3°48 | 16°20 | 17° 0 | 18°14 | 4°18 | 11°25 | S 7 | |
| S 8 | 23 8 25 | 15°35'23 | 22°50 | 7° 4 | 28°49 | 4°44 | 5°11 | 26°13 | 13°27 | 3°50 | 16°19 | 16°56 | 18°11 | 4°25 | 11°25 | S 8 | |
| M 9 | 23 12 21 | 16°33'22 | 6♏Z7 | 9° 2 | 29°56 | 4°30 | 5°23 | 26°19 | 13°28 | 3°52 | 16°18 | 16°53 | 18° 8 | 4°31 | 11°26 | M 9 | |
| T 10 | 23 16 18 | 17°31'24 | 19°37 | 10°59 | 1♌ 3 | 4°17 | 5°34 | 26°25 | 13°29 | 3°53 | 16°17 | 16°D53 | 18° 5 | 4°38 | 11°26 | T 10 | |
| W11 | 23 20 14 | 18°29'26 | 2♎L22 | 12°57 | 2°10 | 4° 4 | 5°46 | 26°32 | 13°30 | 3°55 | 16°16 | 16°53 | 18° 2 | 4°45 | 11°27 | W11 | |
| T 12 | 23 24 11 | 19°27'31 | 14°47 | 14°55 | 3°17 | 3°52 | 5°57 | 26°38 | 13°31 | 3°57 | 16°15 | 16°R54 | 17°58 | 4°52 | 11°27 | T 12 | |
| F 13 | 23 28 8 | 20°25'38 | 26°56 | 16°52 | 4°24 | 3°40 | 6° 9 | 26°44 | 13°32 | 3°58 | 16°14 | 16°54 | 17°55 | 4°58 | 11°27 | F 13 | |
| S 14 | 23 32 4 | 21°23'47 | 8♏S4 | 18°49 | 5°31 | 3°28 | 6°20 | 26°51 | 13°33 | 4° 0 | 16°12 | 16°52 | 17°52 | 5° 5 | 11°28 | S 14 | |
| S 15 | 23 36 1 | 22°21'57 | 20°47 | 20°45 | 6°37 | 3°18 | 6°31 | 26°57 | 13°34 | 4° 2 | 16°11 | 16°48 | 17°49 | 5°12 | 11°28 | S 15 | |
| M16 | 23 39 57 | 23°20'10 | 2♄L38 | 22°40 | 7°44 | 3° 8 | 6°42 | 27° 4 | 13°35 | 4° 3 | 16°10 | 16°42 | 17°46 | 5°18 | 11°R28 | M16 | |
| T 17 | 23 43 54 | 24°18'24 | 14°31 | 24°34 | 8°50 | 2°58 | 6°54 | 27°10 | 13°37 | 4° 5 | 16° 9 | 16°34 | 17°42 | 5°25 | 11°28 | T 17 | |
| W18 | 23 47 50 | 25°16'41 | 26°30 | 26°27 | 9°56 | 2°49 | 7° 5 | 27°17 | 13°38 | 4° 6 | 16° 8 | 16°25 | 17°39 | 5°32 | 11°28 | W18 | |
| T 19 | 23 51 47 | 26°14'59 | 8♎Z7 | 28°19 | 11° 2 | 2°41 | 7°15 | 27°23 | 13°40 | 4° 8 | 16° 7 | 16°16 | 17°36 | 5°39 | 11°28 | T 19 | |
| F 20 | 23 55 43 | 27°13'18 | 20°52 | 0♊L11 | 12° 7 | 2°34 | 7°26 | 27°30 | 13°41 | 4° 9 | 16° 6 | 16° 6 | 17°33 | 5°45 | 11°27 | F 20 | |
| S 21 | 23 59 40 | 28°11'40 | 3♊L18 | 2° 1 | 13°13 | 2°27 | 7°37 | 27°37 | 13°42 | 4°11 | 16° 5 | 15°59 | 17°30 | 5°52 | 11°27 | S 21 | |
| S 22 | 0 3 37 | 29°10'04 | 15°54 | 3°50 | 14°18 | 2°21 | 7°48 | 27°43 | 13°44 | 4°12 | 16° 4 | 15°53 | 17°27 | 5°59 | 11°27 | S 22 | |
| M23 | 0 7 33 | 0♊L29 | 28°42 | 5°38 | 15°23 | 2°16 | 7°58 | 27°50 | 13°46 | 4°14 | 16° 3 | 15°49 | 17°23 | 6° 5 | 11°26 | M23 | |
| T24 | 0 11 30 | 1° 6'56 | 11♌L41 | 7°25 | 16°28 | 2°12 | 8° 9 | 27°57 | 13°47 | 4°15 | 16° 2 | 15°D48 | 17°20 | 6°12 | 11°26 | T24 | |
| W25 | 0 15 26 | 2° 5'24 | 24°52 | 9°10 | 17°33 | 2° 8 | 8°19 | 28° 4 | 13°49 | 4°17 | 16° 0 | 15°48 | 17°17 | 6°19 | 11°25 | W25 | |
| T 26 | 0 19 23 | 3° 3'55 | 8♎L17 | 10°55 | 18°38 | 2° 6 | 8°29 | 28°11 | 13°51 | 4°18 | 15°59 | 15°49 | 17°14 | 6°26 | 11°25 | T 26 | |
| F 27 | 0 23 19 | 4° 2'27 | 21°56 | 12°39 | 19°42 | 2° 4 | 8°39 | 28°18 | 13°52 | 4°19 | 15°58 | 15°50 | 17°11 | 6°32 | 11°24 | F 27 | |
| S 28 | 0 27 16 | 5° 1'00 | 5♏S50 | 14°21 | 20°46 | 2° 3 | 8°50 | 28°24 | 13°54 | 4°21 | 15°57 | 15°R51 | 17° 7 | 6°39 | 11°23 | S 28 | |
| S 29 | 0 31 12 | 5°59'35 | 20° 0 | 16° 3 | 21°50 | 2°D 2 | 9° 0 | 28°31 | 13°56 | 4°22 | 15°56 | 15°50 | 17° 4 | 6°46 | 11°23 | S 29 | |
| M30 | 0 35 9 | 6♊S8'12 | 4♏Z3 | 17♊L43 | 22♌L54 | 2♋L 3 | 9♄L 9 | 28♊L38 | 13♎L58 | 4♄L23 | 15♋Y55 | 15♌L48 | 17♌ 1 | 6♄L52 | 11♎L22 | M30 | |

Delta T = 18m24s

OCTOBER 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|------|-----|
| T 1 | 0 39 6 | 7♊S6'50 | 18♏S56 | 19♎L23 | 23♌L57 | 2♋L 4 | 9♄L19 | 28♊L45 | 14♎L 0 | 4♄L24 | 15°R53 | 15°R43 | 16♌L58 | 6♄L59 | 11°R21 | T 1 | |
| W 2 | 0 43 2 | 8°55'29 | 3♋L34 | 21° 1 | 25° 0 | 2° 7 | 9°29 | 28°52 | 14° 2 | 4°26 | 15°Y52 | 15♌L38 | 16°55 | 7° 6 | 11°R20 | W 2 | |
| T 3 | 0 46 59 | 9°54'11 | 18°11 | 22°39 | 26° 3 | 2°10 | 9°38 | 29° 0 | 14° 4 | 4°27 | 15°51 | 15°33 | 16°52 | 7°13 | 11°19 | T 3 | |
| F 4 | 0 50 55 | 10°52'54 | 2♋Y41 | 24°15 | 27° 6 | 2°13 | 9°48 | 29° 7 | 14° 6 | 4°28 | 15°50 | 15°28 | 16°48 | 7°19 | 11°18 | F 4 | |
| S 5 | 0 54 52 | 11°51'39 | 16°55 | 25°51 | 28° 9 | 2°18 | 9°57 | 29°14 | 14° 8 | 4°29 | 15°49 | 15°24 | 16°45 | 7°26 | 11°17 | S 5 | |
| S 6 | 0 58 48 | 12°50'27 | 0♏S51 | 27°26 | 29°11 | 2°23 | 10° 6 | 29°21 | 14°11 | 4°30 | 15°48 | 15°21 | 16°42 | 7°33 | 11°16 | S 6 | |
| M 7 | 1 2 45 | 13°49'16 | 14°23 | 29° 0 | 0♎L13 | 2°29 | 10°16 | 29°28 | 14°13 | 4°31 | 15°46 | 15°D21 | 16°39 | 7°40 | 11°14 | M 7 | |
| T 8 | 1 6 41 | 14°48'07 | 27°32 | 0♌L33 | 1°14 | 2°36 | 10°24 | 29°35 | 14°15 | 4°32 | 15°45 | 15°21 | 16°36 | 7°46 | 11°13 | T 8 | |
| W 9 | 1 10 38 | 15°47'01 | 10♎L19 | 2° 5 | 2°15 | 2°44 | 10°33 | 29°42 | 14°17 | 4°33 | 15°44 | 15°23 | 16°33 | 7°53 | 11°12 | W 9 | |
| T 10 | 1 14 34 | 16°45'57 | 22°47 | 3°36 | 3°16 | 2°52 | 10°42 | 29°50 | 14°20 | 4°34 | 15°43 | 15°24 | 16°29 | 8° 0 | 11°10 | T 10 | |
| F 11 | 1 18 31 | 17°44'55 | 4♏S58 | 5° 6 | 4°17 | 3° 1 | 10°51 | 29°57 | 14°22 | 4°35 | 15°42 | 15°26 | 16°26 | 8° 6 | 11° 9 | F 11 | |
| S 12 | 1 22 28 | 18°43'55 | 16°59 | 6°36 | 5°17 | 3°11 | 10°59 | 0♌ 4 | 14°25 | 4°36 | 15°41 | 15°R26 | 16°23 | 8°13 | 11° 7 | S 12 | |
| S 13 | 1 26 24 | 19°42'58 | 28°53 | 8° 4 | 6°17 | 3°22 | 11° 8 | 0°11 | 14°27 | 4°37 | 15°39 | 15°26 | 16°20 | 8°20 | 11° 6 | S 13 | |
| M14 | 1 30 21 | 20°42'03 | 10♄L45 | 9°32 | 7°17 | 3°33 | 11°16 | 0°19 | 14°30 | 4°37 | 15°38 | 15°24 | 16°17 | 8°27 | 11° 4 | M14 | |
| T 15 | 1 34 17 | 21°41'10 | 22°41 | 10°59 | 8°16 | 3°45 | 11°24 | 0°26 | 14°32 | 4°38 | 15°37 | 15°22 | 16°13 | 8°33 | 11° 2 | T 15 | |
| W16 | 1 38 14 | 22°40'19 | 4♎L43 | 12°25 | 9°15 | 3°57 | 11°32 | 0°33 | 14°35 | 4°39 | 15°36 | 15°19 | 16°10 | 8°40 | 11° 0 | W16 | |
| T 17 | 1 42 10 | 23°39'30 | 16°55 | 13°50 | 10°13 | 4°11 | 11°40 | 0°40 | 14°37 | 4°40 | 15°35 | 15°15 | 16° 7 | 8°47 | 10°59 | T 17 | |
| F 18 | 1 46 7 | 24°38'44 | 29°20 | 15°14 | 11°12 | 4°25 | 11°48 | 0°48 | 14°40 | 4°40 | 15°34 | 15°12 | 16° 4 | 8°53 | 10°57 | F 18 | |
| S 19 | 1 50 3 | 25°37'59 | 11♊L59 | 16°37 | 12° 9 | 4°39 | 11°55 | 0°55 | 14°43 | 4°41 | 15°32 | 15° 9 | 16° 1 | 9° 0 | 10°55 | S 19 | |
| S 20 | 1 54 0 | 26°37'17 | 24°54 | 17°59 | 13° 6 | 4°54 | 12° 3 | 1° 2 | 14°45 | 4°42 | 15°31 | 15° 7 | 15°58 | 9° 7 | 10°53 | S 20 | |
| M21 | 1 57 57 | 27°36'37 | 8♌L 2 | 19°20 | 14° 3 | 5°10 | 12°10 | 1°10 | 14°48 | 4°42 | 15°30 | 15° 6 | 15°54 | 9°14 | 10°51 | M21 | |
| T 22 | 2 1 53 | 28°35'59 | 21°25 | 20°40 | 14°59 | 5°27 | 12°17 | 1°17 | 14°51 | 4°43 | 15°29 | 15°D 6 | 15°51 | 9°20 | 10°49 | T 22 | |
| W23 | 2 5 50 | 29°35'23 | 5♎L 1 | 21°58 | 15°55 | 5°44 | 12°24 | 1°24 | 14°54 | 4°43 | 15°28 | 15° 6 | 15°48 | 9°27 | 10°46 | W23 | |
| T 24 | 2 9 46 | 0♌L34'48 | 18°47 | 23°16 | 16°51 | 6° 2 | 12°31 | 1°32 | 14°57 | 4°44 | 15°27 | 15° 8 | 15°45 | 9°34 | 10°44 | T 24 | |
| F 25 | 2 13 43 | 1°34'16 | 2♏Z43 | 24°32 | 17°45 | 6°20 | 12°38 | 1°39 | 15° 0 | 4°44 | 15°26 | 15° 9 | 15°42 | 9°41 | 10°42 | F 25 | |
| S 26 | 2 17 39 | 2°33'45 | 16°46 | 25°47 | 18°40 | 6°39 | 12°45 | 1°46 | 15° 3 | 4°45 | 15°24 | 15°10 | 15°38 | 9°47 | 10°40 | S 26 | |
| S 27 | 2 21 36 | 3°33'16 | 0♏S56 | 27° 0 | 19°33 | 6°58 | 12°51 | 1°54 | 15° 6 | 4°45 | 15°23 | 15°R10 | 15°35 | 9°54 | 10°37 | S 27 | |
| M28 | 2 25 32 | 4°32'48 | 15° 9 | 28°12 | 20°26 | 7°18 | 12°57 | 2° 1 | 15° 9 | 4°45 | 15°22 | 15°10 | 15°32 | 10° 1 | 10°35 | M28 | |
| T 29 | 2 29 29 | 5°32'23 | 29°24 | 29°21 | 21°19 | 7°39 | 13° 3 | 2° 9 | 15°12 | 4°46 | 15°21 | 15° 9 | 15°29 | 10° 7 | 10°33 | T 29 | |
| W30 | 2 33 26 | 6°31'58 | 13♋L37 | 0♎L29 | 22°10 | 8° 0 | 13° 9 | 2°16 | 15°15 | 4°46 | 15°20 | 15° 8 | 15°26 | 10°14 | 10°30 | W30 | |
| T 31 | 2 37 22 | 7♌L31'36 | 27♋L45 | 1♎L35 | 23♋L 1 | 8♋L21 | 13♄L15 | 2♌L23 | 15♎L18 | 4♄L46 | 15♋Y19 | 15♌L 7 | 15♌L23 | 10♄L21 | 10♎L28 | T 31 | |

Delta T = 18m24s

ASTRODIENST EPHEMERIS for the year 2571
geocentric

NOVEMBER 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|------|-------|-------|--------|--------|-------|-------|--------|------|
| F 1 | 2 41 19 | 8♁31'15 | 11♀46 | 2♁38 | 23♁52 | 8♁43 | 13♁21 | 2♁30 | 15♁21 | 4♁27 | 15°R18 | 15°R 6 | 15♁19 | 10♁28 | 10°R25 | F 1 |
| S 2 | 2 45 15 | 9°30'56 | 25°35 | 3°39 | 24°41 | 9° 6 | 13°26 | 2°38 | 15°24 | 4°47 | 15°V17 | 15°R 6 | 15°16 | 10°34 | 10°R22 | S 2 |
| S 3 | 2 49 12 | 10°30'39 | 9♁ 9 | 4°37 | 25°30 | 9°29 | 13°32 | 2°45 | 15°27 | 4°47 | 15°16 | 15°D 6 | 15°13 | 10°41 | 10°20 | S 3 |
| M 4 | 2 53 8 | 11°30'24 | 22°27 | 5°32 | 26°18 | 9°52 | 13°37 | 2°52 | 15°30 | 4°47 | 15°15 | 15° 6 | 15°10 | 10°48 | 10°17 | M 4 |
| T 5 | 2 57 5 | 12°30'11 | 5♁27 | 6°23 | 27° 6 | 10°16 | 13°42 | 3° 0 | 15°34 | 4°47 | 15°14 | 15° 6 | 15° 7 | 10°54 | 10°14 | T 5 |
| W 6 | 3 1 1 | 13°30'00 | 18° 9 | 7°11 | 27°52 | 10°40 | 13°47 | 3° 7 | 15°37 | 4°47 | 15°13 | 15° 6 | 15° 4 | 11° 1 | 10°12 | W 6 |
| T 7 | 3 4 58 | 14°29'51 | 0♁35 | 7°54 | 28°37 | 11° 5 | 13°51 | 3°14 | 15°40 | 4°R47 | 15°12 | 15° 6 | 15° 0 | 11° 8 | 10° 9 | T 7 |
| F 8 | 3 8 55 | 15°29'44 | 12°47 | 8°33 | 29°22 | 11°30 | 13°56 | 3°21 | 15°43 | 4°47 | 15°11 | 15°R 6 | 14°57 | 11°15 | 10° 6 | F 8 |
| S 9 | 3 12 51 | 16°29'40 | 24°49 | 9° 6 | 0♁ 6 | 11°55 | 14° 0 | 3°29 | 15°47 | 4°47 | 15°10 | 15° 6 | 14°54 | 11°21 | 10° 3 | S 9 |
| S 10 | 3 16 48 | 17°29'37 | 6♁44 | 9°33 | 0°48 | 12°21 | 14° 4 | 3°36 | 15°50 | 4°47 | 15° 9 | 15° 6 | 14°51 | 11°28 | 10° 0 | S 10 |
| M11 | 3 20 44 | 18°29'36 | 18°37 | 9°54 | 1°30 | 12°47 | 14° 8 | 3°43 | 15°53 | 4°47 | 15° 8 | 15°D 6 | 14°48 | 11°35 | 9°57 | M11 |
| T 12 | 3 24 41 | 19°29'38 | 0♁32 | 10° 8 | 2°10 | 13°14 | 14°12 | 3°50 | 15°57 | 4°47 | 15° 7 | 15° 6 | 14°44 | 11°42 | 9°54 | T 12 |
| W13 | 3 28 37 | 20°29'42 | 12°34 | 10°R14 | 2°50 | 13°41 | 14°16 | 3°57 | 16° 0 | 4°47 | 15° 6 | 15° 6 | 14°41 | 11°48 | 9°51 | W13 |
| T 14 | 3 32 34 | 21°29'47 | 24°47 | 10°11 | 3°28 | 14° 8 | 14°19 | 4° 5 | 16° 4 | 4°46 | 15° 5 | 15° 7 | 14°38 | 11°55 | 9°48 | T 14 |
| F 15 | 3 36 30 | 22°29'55 | 7♁16 | 10° 0 | 4° 5 | 14°36 | 14°22 | 4°12 | 16° 7 | 4°46 | 15° 4 | 15° 8 | 14°35 | 12° 2 | 9°45 | F 15 |
| S 16 | 3 40 27 | 23°30'05 | 20° 4 | 9°39 | 4°40 | 15° 4 | 14°25 | 4°19 | 16°11 | 4°46 | 15° 3 | 15° 8 | 14°32 | 12° 8 | 9°42 | S 16 |
| S 17 | 3 44 24 | 24°30'16 | 3♁11 | 9° 9 | 5°15 | 15°32 | 14°28 | 4°26 | 16°14 | 4°46 | 15° 2 | 15° 9 | 14°29 | 12°15 | 9°39 | S 17 |
| M18 | 3 48 20 | 25°30'30 | 16°39 | 8°28 | 5°47 | 16° 1 | 14°31 | 4°33 | 16°18 | 4°45 | 15° 1 | 15°R 9 | 14°25 | 12°22 | 9°36 | M18 |
| T 19 | 3 52 17 | 26°30'45 | 0♁26 | 7°38 | 6°19 | 16°30 | 14°34 | 4°40 | 16°21 | 4°45 | 15° 1 | 15° 9 | 14°22 | 12°29 | 9°33 | T 19 |
| W20 | 3 56 13 | 27°31'03 | 14°30 | 6°39 | 6°49 | 16°59 | 14°36 | 4°47 | 16°25 | 4°44 | 15° 0 | 15° 8 | 14°19 | 12°35 | 9°30 | W20 |
| T 21 | 4 0 10 | 28°31'21 | 28°45 | 5°32 | 7°17 | 17°29 | 14°38 | 4°54 | 16°28 | 4°44 | 14°59 | 15° 6 | 14°16 | 12°42 | 9°27 | T 21 |
| F 22 | 4 4 6 | 29°31'42 | 13♁ 8 | 4°18 | 7°44 | 17°59 | 14°40 | 5° 1 | 16°32 | 4°43 | 14°58 | 15° 5 | 14°13 | 12°49 | 9°24 | F 22 |
| S 23 | 4 8 3 | 0♁32'04 | 27°33 | 3° 0 | 8° 9 | 18°29 | 14°42 | 5° 8 | 16°35 | 4°43 | 14°57 | 15° 3 | 14°10 | 12°56 | 9°20 | S 23 |
| S 24 | 4 11 59 | 1°32'27 | 11♁56 | 1°39 | 8°33 | 19° 0 | 14°43 | 5°15 | 16°39 | 4°42 | 14°57 | 15° 1 | 14° 6 | 13° 2 | 9°17 | S 24 |
| M25 | 4 15 56 | 2°32'51 | 26°12 | 0°19 | 8°54 | 19°30 | 14°45 | 5°21 | 16°43 | 4°42 | 14°56 | 15°D 0 | 14° 3 | 13° 9 | 9°14 | M25 |
| T 26 | 4 19 53 | 3°33'16 | 10♁20 | 29♁ 2 | 9°14 | 20° 1 | 14°46 | 5°28 | 16°46 | 4°41 | 14°55 | 15° 0 | 14° 0 | 13°16 | 9°11 | T 26 |
| W27 | 4 23 49 | 4°33'43 | 24°16 | 27°51 | 9°32 | 20°33 | 14°47 | 5°35 | 16°50 | 4°41 | 14°54 | 15° 1 | 13°57 | 13°22 | 9° 8 | W27 |
| T 28 | 4 27 46 | 5°34'11 | 8♀ 2 | 26°47 | 9°47 | 21° 4 | 14°47 | 5°42 | 16°53 | 4°40 | 14°54 | 15° 3 | 13°54 | 13°29 | 9° 4 | T 28 |
| F 29 | 4 31 42 | 6°34'41 | 21°35 | 25°53 | 10° 1 | 21°36 | 14°48 | 5°48 | 16°57 | 4°39 | 14°53 | 15° 4 | 13°50 | 13°36 | 9° 1 | F 29 |
| S 30 | 4 35 39 | 7°35'11 | 4♁56 | 25♁ 9 | 10♁12 | 22♁ 8 | 14°48 | 5♁55 | 17° 1 | 4♁38 | 14°V52 | 15♁ 5 | 13♁47 | 13°43 | 8♁58 | S 30 |

Delta T = 18m25s

DECEMBER 2571

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|--------|-------|--------|------|-------|-------|--------|--------|-------|-------|-------|------|
| S 1 | 4 39 35 | 8♁35'43 | 18♁ 5 | 24°R37 | 10♁22 | 22♁40 | 14°R49 | 6♁ 2 | 17♁ 4 | 4°R38 | 14°R52 | 15°R 5 | 13♁44 | 13♁49 | 8°R55 | S 1 |
| M 2 | 4 43 32 | 9°36'17 | 1♁ 2 | 24♁17 | 10°29 | 23°12 | 14°49 | 6° 8 | 17° 8 | 4♁37 | 14°V51 | 15♁ 5 | 13°41 | 13°56 | 8♁51 | M 2 |
| T 3 | 4 47 28 | 10°36'52 | 13°45 | 24°D 8 | 10°33 | 23°45 | 14°48 | 6°15 | 17°12 | 4°36 | 14°51 | 15° 2 | 13°38 | 14° 3 | 8°48 | T 3 |
| W 4 | 4 51 25 | 11°37'28 | 26°17 | 24°10 | 10°R35 | 24°18 | 14°48 | 6°21 | 17°15 | 4°35 | 14°50 | 14°59 | 13°35 | 14° 9 | 8°45 | W 4 |
| T 5 | 4 55 22 | 12°38'05 | 8♁36 | 24°23 | 10°35 | 24°51 | 14°47 | 6°27 | 17°19 | 4°34 | 14°49 | 14°54 | 13°31 | 14°16 | 8°42 | T 5 |
| F 6 | 4 59 18 | 13°38'45 | 20°45 | 24°45 | 10°33 | 25°24 | 14°46 | 6°34 | 17°23 | 4°33 | 14°49 | 14°49 | 13°28 | 14°23 | 8°38 | F 6 |
| S 7 | 5 3 15 | 14°39'25 | 2♁45 | 25°16 | 10°28 | 25°57 | 14°45 | 6°40 | 17°27 | 4°33 | 14°48 | 14°44 | 13°25 | 14°30 | 8°35 | S 7 |
| S 8 | 5 7 11 | 15°40'07 | 14°39 | 25°55 | 10°20 | 26°31 | 14°44 | 6°46 | 17°30 | 4°32 | 14°48 | 14°39 | 13°22 | 14°36 | 8°32 | S 8 |
| M 9 | 5 11 8 | 16°40'51 | 26°31 | 26°41 | 10°10 | 27° 5 | 14°43 | 6°53 | 17°34 | 4°31 | 14°47 | 14°36 | 13°19 | 14°43 | 8°29 | M 9 |
| T 10 | 5 15 4 | 17°41'36 | 8♁24 | 27°33 | 9°58 | 27°39 | 14°41 | 6°59 | 17°38 | 4°30 | 14°47 | 14°34 | 13°16 | 14°50 | 8°26 | T 10 |
| W11 | 5 19 1 | 18°42'22 | 2♁23 | 28°30 | 9°43 | 28°13 | 14°39 | 7° 5 | 17°41 | 4°28 | 14°47 | 14°D33 | 13°12 | 14°57 | 8°22 | W11 |
| T 12 | 5 22 57 | 19°43'10 | 2♁34 | 29°32 | 9°26 | 28°47 | 14°37 | 7°11 | 17°45 | 4°27 | 14°46 | 14°34 | 13° 9 | 15° 3 | 8°19 | T 12 |
| F 13 | 5 26 54 | 20°43'59 | 15° 0 | 0♁38 | 9° 6 | 29°21 | 14°35 | 7°17 | 17°49 | 4°26 | 14°46 | 14°36 | 13° 6 | 15°10 | 8°16 | F 13 |
| S 14 | 5 30 51 | 21°44'50 | 27°47 | 1°48 | 8°44 | 29°56 | 14°33 | 7°23 | 17°52 | 4°25 | 14°45 | 14°37 | 13° 3 | 15°17 | 8°13 | S 14 |
| S 15 | 5 34 47 | 22°45'42 | 10♁58 | 3° 0 | 8°20 | 0♀31 | 14°30 | 7°29 | 17°56 | 4°24 | 14°45 | 14°R38 | 13° 0 | 15°23 | 8°10 | S 15 |
| M16 | 5 38 44 | 23°46'35 | 24°34 | 4°16 | 7°54 | 1° 6 | 14°27 | 7°35 | 18° 0 | 4°23 | 14°45 | 14°38 | 12°56 | 15°30 | 8° 7 | M16 |
| T 17 | 5 42 40 | 24°47'30 | 8♁37 | 5°33 | 7°26 | 1°41 | 14°24 | 7°41 | 18° 4 | 4°22 | 14°45 | 14°36 | 12°53 | 15°37 | 8° 4 | T 17 |
| W18 | 5 46 37 | 25°48'25 | 23° 2 | 6°53 | 6°57 | 2°16 | 14°21 | 7°46 | 18° 7 | 4°20 | 14°44 | 14°31 | 12°50 | 15°44 | 8° 1 | W18 |
| T 19 | 5 50 33 | 26°49'22 | 7♁45 | 8°14 | 6°25 | 2°51 | 14°18 | 7°52 | 18°11 | 4°19 | 14°44 | 14°25 | 12°47 | 15°50 | 7°58 | T 19 |
| F 20 | 5 54 30 | 27°50'19 | 22°37 | 9°37 | 5°53 | 3°27 | 14°14 | 7°58 | 18°15 | 4°18 | 14°44 | 14°18 | 12°44 | 15°57 | 7°55 | F 20 |
| S 21 | 5 58 26 | 28°51'18 | 7♁31 | 11° 1 | 5°19 | 4° 2 | 14°11 | 8° 3 | 18°18 | 4°17 | 14°44 | 14°11 | 12°41 | 16° 4 | 7°52 | S 21 |
| S 22 | 6 2 23 | 29°52'16 | 22°17 | 12°26 | 4°44 | 4°38 | 14° 7 | 8° 9 | 18°22 | 4°15 | 14°43 | 14° 5 | 12°37 | 16°11 | 7°49 | S 22 |
| M23 | 6 6 20 | 0♁53'16 | 6♁49 | 13°51 | 4° 8 | 5°14 | 14° 3 | 8°14 | 18°25 | 4°14 | 14°43 | 14° 1 | 12°34 | 16°17 | 7°46 | M23 |
| T 24 | 6 10 16 | 1°54'15 | 21° 3 | 15°18 | 3°32 | 5°50 | 13°58 | 8°19 | 18°29 | 4°13 | 14°43 | 13°58 | 12°31 | 16°24 | 7°43 | T 24 |
| W25 | 6 14 13 | 2°55'16 | 4♀57 | 16°46 | 2°55 | 6°26 | 13°54 | 8°25 | 18°33 | 4°11 | 14°43 | 13°D58 | 12°28 | 16°31 | 7°40 | W25 |
| T 26 | 6 18 9 | 3°56'16 | 18°32 | 18°14 | 2°19 | 7° 2 | 13°49 | 8°30 | 18°36 | 4°10 | 14°43 | 13°59 | 12°25 | 16°37 | 7°37 | T 26 |
| F 27 | 6 22 6 | 4°57'17 | 1♁48 | 19°42 | 1°43 | 7°38 | 13°45 | 8°35 | 18°40 | 4° 8 | 14°43 | 14° 0 | 12°22 | 16°44 | 7°34 | F 27 |
| S 28 | 6 26 2 | 5°58'19 | 14°49 | 21°11 | 1° 7 | 8°15 | 13°40 | 8°40 | 18°44 | 4° 7 | 14°43 | 14°R 0 | 12°18 | 16°51 | 7°32 | S 28 |
| S 29 | 6 29 59 | 6°59'21 | 27°36 | 22°41 | 0°32 | 8°51 | 13°35 | 8°45 | 18°47 | 4° 5 | 14°D43 | 13°59 | 12°15 | 16°58 | 7°29 | S 29 |
| M30 | 6 33 55 | 8° 0'23 | 10♁12 | 24°11 | 29♁58 | 9°28 | 13°29 | 8°50 | 18°51 | 4° 4 | 14°43 | 13°56 | 12°12 | 17° 4 | 7°26 | M30 |
| T 31 | 6 37 52 | 9♁ 1'26 | 22♁38 | 25♁41 | 29♁25 | 10♀ 5 | 13°42 | 8♁55 | 18°54 | 4♁ 3 | 14°V43 | 13♁50 | 12♁ 9 | 17°11 | 7♁24 | T 31 |

Delta T = 18m25s

ASTRODIENST EPHEMERIS for the year 2572
geocentric

JANUARY 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|------|-----|
| W 1 | 6 41 49 | 10☾2'29 | 4☾55 | 27♂12 | 28♁R53 | 10♀♂41 | 13♁R18 | 8♁L59 | 18♁58 | 4♁R 1 | 14♀♂43 | 13♁R41 | 12♁L 6 | 17♁L18 | 7♁R21 | W 1 | |
| T 2 | 6 45 45 | 11° 3'32 | 17° 5 | 28°43 | 28♁R24 | 11°18 | 13♁L13 | 9° 4 | 19° 1 | 4♁L 0 | 14°43 | 13♁L31 | 12° 2 | 17°24 | 7♁L18 | T 2 | |
| F 3 | 6 49 42 | 12° 4'36 | 29° 7 | 0☾14 | 27°56 | 11°55 | 13° 7 | 9° 9 | 19° 5 | 3°58 | 14°43 | 13°19 | 11°59 | 17°31 | 7°16 | F 3 | |
| S 4 | 6 53 38 | 13° 5'41 | 11♁L 4 | 1°45 | 27°30 | 12°32 | 13° 1 | 9°13 | 19° 8 | 3°56 | 14°43 | 13° 7 | 11°56 | 17°38 | 7°13 | S 4 | |
| S 5 | 6 57 35 | 14° 6'46 | 22°57 | 3°17 | 27° 6 | 13° 9 | 12°54 | 9°18 | 19°12 | 3°55 | 14°43 | 12°56 | 11°53 | 17°45 | 7°11 | S 5 | |
| M 6 | 7 1 31 | 15° 7'51 | 4♁L48 | 4°49 | 26°44 | 13°47 | 12°48 | 9°22 | 19°15 | 3°53 | 14°44 | 12°47 | 11°50 | 17°51 | 7° 9 | M 6 | |
| T 7 | 7 5 28 | 16° 8'57 | 16°40 | 6°22 | 26°25 | 14°24 | 12°42 | 9°26 | 19°18 | 3°52 | 14°44 | 12°40 | 11°47 | 17°58 | 7° 6 | T 7 | |
| W 8 | 7 9 24 | 17°10'03 | 28°36 | 7°55 | 26° 7 | 15° 1 | 12°35 | 9°30 | 19°22 | 3°50 | 14°44 | 12°35 | 11°43 | 18° 5 | 7° 4 | W 8 | |
| T 9 | 7 13 21 | 18°11'10 | 10♁L43 | 9°28 | 25°53 | 15°39 | 12°28 | 9°35 | 19°25 | 3°48 | 14°44 | 12°33 | 11°40 | 18°12 | 7° 2 | T 9 | |
| F 10 | 7 17 18 | 19°12'17 | 23° 4 | 11° 1 | 25°41 | 16°16 | 12°22 | 9°39 | 19°29 | 3°47 | 14°44 | 12°D33 | 11°37 | 18°18 | 6°59 | F 10 | |
| S 11 | 7 21 14 | 20°13'25 | 5♁L44 | 12°34 | 25°31 | 16°54 | 12°15 | 9°42 | 19°32 | 3°45 | 14°45 | 12°R34 | 11°34 | 18°25 | 6°57 | S 11 | |
| S 12 | 7 25 11 | 21°14'33 | 18°49 | 14° 8 | 25°24 | 17°31 | 12° 8 | 9°46 | 19°35 | 3°44 | 14°45 | 12°34 | 11°31 | 18°32 | 6°55 | S 12 | |
| M13 | 7 29 7 | 22°15'41 | 2♁L22 | 15°43 | 25°19 | 18° 9 | 12° 0 | 9°50 | 19°38 | 3°42 | 14°45 | 12°32 | 11°28 | 18°38 | 6°53 | M13 | |
| T 14 | 7 33 4 | 23°16'50 | 16°25 | 17°17 | 25°D17 | 18°47 | 11°53 | 9°54 | 19°42 | 3°40 | 14°46 | 12°28 | 11°24 | 18°45 | 6°51 | T 14 | |
| W15 | 7 37 0 | 24°17'59 | 0☾57 | 18°52 | 25°18 | 19°24 | 11°46 | 9°57 | 19°45 | 3°39 | 14°46 | 12°21 | 11°21 | 18°52 | 6°49 | W15 | |
| T 16 | 7 40 57 | 25°19'08 | 15°52 | 20°28 | 25°20 | 20° 2 | 11°39 | 10° 1 | 19°48 | 3°37 | 14°46 | 12°12 | 11°18 | 18°59 | 6°47 | T 16 | |
| F 17 | 7 44 54 | 26°20'17 | 1♁L 4 | 22° 4 | 25°25 | 20°40 | 11°31 | 10° 4 | 19°51 | 3°35 | 14°47 | 12° 1 | 11°15 | 19° 5 | 6°46 | F 17 | |
| S 18 | 7 48 50 | 27°21'26 | 16°20 | 23°40 | 25°33 | 21°18 | 11°23 | 10° 8 | 19°54 | 3°34 | 14°47 | 11°49 | 11°12 | 19°12 | 6°44 | S 18 | |
| S 19 | 7 52 47 | 28°22'34 | 1♁L30 | 25°16 | 25°43 | 21°56 | 11°16 | 10°11 | 19°58 | 3°32 | 14°48 | 11°39 | 11° 8 | 19°19 | 6°42 | S 19 | |
| M20 | 7 56 43 | 29°23'42 | 16°23 | 26°53 | 25°54 | 22°34 | 11° 8 | 10°14 | 20° 1 | 3°30 | 14°48 | 11°31 | 11° 5 | 19°25 | 6°41 | M20 | |
| T 21 | 8 0 40 | 0♁L24'50 | 0♀♂53 | 28°31 | 26° 8 | 23°12 | 11° 0 | 10°17 | 20° 4 | 3°29 | 14°49 | 11°25 | 11° 2 | 19°32 | 6°39 | T 21 | |
| W22 | 8 4 36 | 1°25'57 | 14°57 | 0♁L 9 | 26°25 | 23°51 | 10°52 | 10°20 | 20° 7 | 3°27 | 14°49 | 11°23 | 10°59 | 19°39 | 6°37 | W22 | |
| T 23 | 8 8 33 | 2°27'03 | 28°35 | 1°47 | 26°43 | 24°29 | 10°45 | 10°23 | 20°10 | 3°25 | 14°50 | 11°D22 | 10°56 | 19°46 | 6°36 | T 23 | |
| F 24 | 8 12 29 | 3°28'09 | 11♁L48 | 3°26 | 27° 3 | 25° 7 | 10°37 | 10°25 | 20°13 | 3°23 | 14°51 | 11°R22 | 10°53 | 19°52 | 6°35 | F 24 | |
| S 25 | 8 16 26 | 4°29'14 | 24°41 | 5° 6 | 27°25 | 25°46 | 10°29 | 10°28 | 20°16 | 3°22 | 14°51 | 11°21 | 10°49 | 19°59 | 6°33 | S 25 | |
| S 26 | 8 20 23 | 5°30'19 | 7♁L16 | 6°46 | 27°49 | 26°24 | 10°21 | 10°31 | 20°18 | 3°20 | 14°52 | 11°19 | 10°46 | 20° 6 | 6°32 | S 26 | |
| M27 | 8 24 19 | 6°31'22 | 19°39 | 8°26 | 28°14 | 27° 2 | 10°13 | 10°33 | 20°21 | 3°18 | 14°52 | 11°14 | 10°43 | 20°13 | 6°31 | M27 | |
| T 28 | 8 28 16 | 7°32'25 | 1♁L51 | 10° 7 | 28°42 | 27°41 | 10° 5 | 10°35 | 20°24 | 3°17 | 14°53 | 11° 7 | 10°40 | 20°19 | 6°30 | T 28 | |
| W29 | 8 32 12 | 8°33'28 | 13°57 | 11°48 | 29°10 | 28°19 | 9°57 | 10°38 | 20°27 | 3°15 | 14°54 | 10°56 | 10°37 | 20°26 | 6°29 | W29 | |
| T 30 | 8 36 9 | 9°34'30 | 25°57 | 13°30 | 29°41 | 28°58 | 9°49 | 10°40 | 20°30 | 3°13 | 14°54 | 10°42 | 10°34 | 20°33 | 6°28 | T 30 | |
| F 31 | 8 40 5 | 10°35'31 | 7♁L53 | 15°13 | 0☾13 | 29♀♂36 | 9♁L40 | 10♁L42 | 20♁L32 | 3♁L12 | 14♀♂55 | 10♁L27 | 10♁L30 | 20♁L39 | 6♁L27 | F 31 | |

Delta T = 18m25s

FEBRUARY 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|-------|--------|-------|--------|--------|-------|--------|--------|--------|--------|-------|------|-----|
| S 1 | 8 44 2 | 11°36'31 | 19♁L46 | 16♁L56 | 0☾47 | 0♁L15 | 9°R32 | 10♁L44 | 20♁L35 | 3°R10 | 14♀♂56 | 10°R12 | 10♁L27 | 20♁L46 | 6°R26 | S 1 | |
| S 2 | 8 47 58 | 12°37'30 | 1♁L39 | 18°39 | 1°22 | 0°53 | 9♁L24 | 10°46 | 20°38 | 3♁L 8 | 14°57 | 9♁L58 | 10°24 | 20°53 | 6♁L25 | S 2 | |
| M 3 | 8 51 55 | 13°38'29 | 13°31 | 20°23 | 1°58 | 1°32 | 9°16 | 10°47 | 20°40 | 3° 7 | 14°58 | 9°46 | 10°21 | 21° 0 | 6°24 | M 3 | |
| T 4 | 8 55 52 | 14°39'28 | 25°25 | 22° 7 | 2°36 | 2°10 | 9° 8 | 10°49 | 20°43 | 3° 5 | 14°58 | 9°36 | 10°18 | 21° 6 | 6°23 | T 4 | |
| W 5 | 8 59 48 | 15°40'25 | 7♁L24 | 23°51 | 3°15 | 2°49 | 9° 0 | 10°50 | 20°45 | 3° 3 | 14°59 | 9°29 | 10°14 | 21°13 | 6°23 | W 5 | |
| T 6 | 9 3 45 | 16°41'23 | 19°31 | 25°35 | 3°55 | 3°28 | 8°53 | 10°52 | 20°48 | 3° 2 | 15° 0 | 9°26 | 10°11 | 21°20 | 6°22 | T 6 | |
| F 7 | 9 7 41 | 17°42'19 | 1♁L50 | 27°20 | 4°36 | 4° 7 | 8°45 | 10°53 | 20°50 | 3° 0 | 15° 1 | 9°25 | 10° 8 | 21°26 | 6°22 | F 7 | |
| S 8 | 9 11 38 | 18°43'15 | 14°26 | 29° 5 | 5°18 | 4°45 | 8°37 | 10°54 | 20°53 | 2°58 | 15° 2 | 9°24 | 10° 5 | 21°33 | 6°21 | S 8 | |
| S 9 | 9 15 34 | 19°44'10 | 27°24 | 0♁L49 | 6° 2 | 5°24 | 8°29 | 10°55 | 20°55 | 2°57 | 15° 3 | 9°24 | 10° 2 | 21°40 | 6°21 | S 9 | |
| M10 | 9 19 31 | 20°45'05 | 10♁L48 | 2°34 | 6°47 | 6° 3 | 8°21 | 10°56 | 20°57 | 2°55 | 15° 4 | 9°23 | 9°59 | 21°47 | 6°21 | M10 | |
| T 11 | 9 23 27 | 21°45'59 | 24°41 | 4°17 | 7°32 | 6°41 | 8°14 | 10°57 | 20°59 | 2°54 | 15° 5 | 9°19 | 9°55 | 21°53 | 6°20 | T 11 | |
| W12 | 9 27 24 | 22°46'53 | 9☾ 3 | 6° 0 | 8°18 | 7°20 | 8° 6 | 10°58 | 21° 2 | 2°52 | 15° 6 | 9°13 | 9°52 | 22° 0 | 6°20 | W12 | |
| T 13 | 9 31 21 | 23°47'45 | 23°53 | 7°42 | 9° 6 | 7°59 | 7°59 | 10°59 | 21° 4 | 2°50 | 15° 7 | 9° 4 | 9°49 | 22° 7 | 6°20 | T 13 | |
| F 14 | 9 35 17 | 24°48'37 | 9♁L 3 | 9°22 | 9°54 | 8°38 | 7°51 | 10°59 | 21° 6 | 2°49 | 15° 8 | 8°54 | 9°46 | 22°14 | 6°D20 | F 14 | |
| S 15 | 9 39 14 | 25°49'27 | 24°23 | 11° 1 | 10°43 | 9°17 | 7°44 | 11° 0 | 21° 8 | 2°47 | 15° 9 | 8°43 | 9°43 | 22°20 | 6°20 | S 15 | |
| S 16 | 9 43 10 | 26°50'17 | 9♁L43 | 12°37 | 11°33 | 9°56 | 7°36 | 11° 0 | 21°10 | 2°46 | 15°10 | 8°32 | 9°39 | 22°27 | 6°20 | S 16 | |
| M17 | 9 47 7 | 27°51'05 | 24°50 | 14°11 | 12°24 | 10°35 | 7°29 | 11° 0 | 21°12 | 2°44 | 15°11 | 8°24 | 9°36 | 22°34 | 6°21 | M17 | |
| T 18 | 9 51 3 | 28°51'52 | 9♀♂36 | 15°41 | 13°15 | 11°13 | 7°22 | 11° 1 | 21°14 | 2°43 | 15°12 | 8°18 | 9°33 | 22°40 | 6°21 | T 18 | |
| W19 | 9 55 0 | 29°52'37 | 23°54 | 17° 8 | 14° 7 | 11°52 | 7°15 | 11°R 1 | 21°16 | 2°41 | 15°13 | 8°15 | 9°30 | 22°47 | 6°21 | W19 | |
| T 20 | 9 58 56 | 0♁L53'21 | 7♁L43 | 18°30 | 15° 0 | 12°31 | 7° 8 | 11° 1 | 21°18 | 2°40 | 15°14 | 8°D14 | 9°27 | 22°54 | 6°21 | T 20 | |
| F 21 | 10 2 53 | 1°54'03 | 21° 4 | 19°47 | 15°53 | 13°10 | 7° 2 | 11° 0 | 21°20 | 2°38 | 15°15 | 8°15 | 9°24 | 23° 1 | 6°22 | F 21 | |
| S 22 | 10 6 49 | 2°54'44 | 3♁L59 | 20°58 | 16°47 | 13°49 | 6°55 | 11° 0 | 21°21 | 2°37 | 15°16 | 8°R15 | 9°20 | 23° 7 | 6°22 | S 22 | |
| S 23 | 10 10 46 | 3°55'23 | 16°34 | 22° 3 | 17°42 | 14°28 | 6°49 | 11° 0 | 21°23 | 2°36 | 15°17 | 8°14 | 9°17 | 23°14 | 6°23 | S 23 | |
| M24 | 10 14 43 | 4°56'00 | 28°53 | 23° 0 | 18°37 | 15° 7 | 6°42 | 10°59 | 21°25 | 2°34 | 15°18 | 8°11 | 9°14 | 23°21 | 6°24 | M24 | |
| T 25 | 10 18 39 | 5°56'36 | 10♁L59 | 23°49 | 19°33 | 15°46 | 6°36 | 10°59 | 21°26 | 2°33 | 15°20 | 8° 6 | 9°11 | 23°27 | 6°24 | T 25 | |
| W26 | 10 22 36 | 6°57'10 | 22°58 | 24°29 | 20°29 | 16°25 | 6°30 | 10°58 | 21°28 | 2°32 | 15°21 | 7°58 | 9° 8 | 23°34 | 6°25 | W26 | |
| T 27 | 10 26 32 | 7°57'42 | 4♁L52 | 25° 1 | 21°26 | 17° 4 | 6°24 | 10°57 | 21°29 | 2°30 | 15°22 | 7°48 | 9° 5 | 23°41 | 6°26 | T 27 | |
| F 28 | 10 30 29 | 8°58'13 | 16°44 | 25°22 | 22°23 | 17°43 | 6°18 | 10°56 | 21°31 | 2°29 | 15°23 | 7°36 | 9° 1 | 23°48 | 6°27 | F 28 | |
| S 29 | 10 34 25 | 9♁L58'42 | 28♁L36 | 25♁L33 | 23☾21 | 18♁L22 | 6♁L13 | 10♁L55 | 21♁L32 | 2♁L28 | 15♀♂24 | 7♁L24 | 8♁L58 | 23♁L54 | 6♁L28 | S 29 | |

Delta T = 18m26s

ASTRODIENST EPHEMERIS for the year 2572
geocentric

MARCH 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|--------|--------|-------|--------|-------|------|-------|------|------|---|---|---|---|-----|
| S 1 | 10 38 22 | 10♌59°10 | 10♎30 | 25°R35 | 24♌19 | 19♌ 1 | 6°R 7 | 10°R54 | 21♌34 | 2°R26 | 15♌26 | 7°R13 | 8♌55 | 24♌ 1 | 6♌29 | S 1 | | | | | |
| M 2 | 10 42 18 | 11°59'36 | 22°27 | 25♌26 | 25°18 | 19°40 | 6♌ 2 | 10♌53 | 21°35 | 2♌25 | 15°27 | 7♌ 4 | 8°52 | 24° 8 | 6°30 | M 2 | | | | | |
| T 3 | 10 46 15 | 13° 0'00 | 4♌28 | 25° 7 | 26°17 | 20°19 | 5°57 | 10°52 | 21°36 | 2°24 | 15°28 | 6°56 | 8°49 | 24°14 | 6°31 | T 3 | | | | | |
| W 4 | 10 50 12 | 14° 0'23 | 16°35 | 24°39 | 27°17 | 20°58 | 5°52 | 10°50 | 21°37 | 2°23 | 15°29 | 6°52 | 8°45 | 24°21 | 6°33 | W 4 | | | | | |
| T 5 | 10 54 8 | 15° 0'45 | 28°50 | 24° 2 | 28°17 | 21°37 | 5°47 | 10°49 | 21°39 | 2°22 | 15°31 | 6°49 | 8°42 | 24°28 | 6°34 | T 5 | | | | | |
| F 6 | 10 58 5 | 16° 1'05 | 11♌16 | 23°17 | 29°17 | 22°16 | 5°42 | 10°47 | 21°40 | 2°20 | 15°32 | 6°D49 | 8°39 | 24°35 | 6°35 | F 6 | | | | | |
| S 7 | 11 2 1 | 17° 1'24 | 23°56 | 22°26 | 0♌18 | 22°55 | 5°38 | 10°45 | 21°41 | 2°19 | 15°33 | 6°50 | 8°36 | 24°41 | 6°37 | S 7 | | | | | |
| S 8 | 11 5 58 | 18° 1'41 | 6♌55 | 21°29 | 1°19 | 23°34 | 5°33 | 10°44 | 21°42 | 2°18 | 15°35 | 6°51 | 8°33 | 24°48 | 6°38 | S 8 | | | | | |
| M 9 | 11 9 54 | 19° 1'57 | 20°14 | 20°29 | 2°20 | 24°13 | 5°29 | 10°42 | 21°43 | 2°17 | 15°36 | 6°R52 | 8°30 | 24°55 | 6°40 | M 9 | | | | | |
| T 10 | 11 13 51 | 20° 2'11 | 3♌57 | 19°26 | 3°22 | 24°52 | 5°25 | 10°40 | 21°43 | 2°16 | 15°37 | 6°51 | 8°26 | 25° 1 | 6°42 | T 10 | | | | | |
| W11 | 11 17 47 | 21° 2'25 | 18° 5 | 18°23 | 4°24 | 25°31 | 5°22 | 10°38 | 21°44 | 2°15 | 15°39 | 6°48 | 8°23 | 25° 8 | 6°43 | W11 | | | | | |
| T 12 | 11 21 44 | 22° 2'36 | 2♌38 | 17°21 | 5°27 | 26°10 | 5°18 | 10°35 | 21°45 | 2°14 | 15°40 | 6°43 | 8°20 | 25°15 | 6°45 | T 12 | | | | | |
| F 13 | 11 25 41 | 23° 2'46 | 17°30 | 16°20 | 6°29 | 26°49 | 5°14 | 10°33 | 21°46 | 2°13 | 15°41 | 6°37 | 8°17 | 25°22 | 6°47 | F 13 | | | | | |
| S 14 | 11 29 37 | 24° 2'55 | 2♌36 | 15°23 | 7°33 | 27°28 | 5°11 | 10°31 | 21°47 | 2°12 | 15°43 | 6°30 | 8°14 | 25°28 | 6°49 | S 14 | | | | | |
| S 15 | 11 33 34 | 25° 3'01 | 17°45 | 14°31 | 8°36 | 28° 7 | 5° 8 | 10°28 | 21°47 | 2°11 | 15°44 | 6°24 | 8°11 | 25°35 | 6°51 | S 15 | | | | | |
| M16 | 11 37 30 | 26° 3'06 | 2♌48 | 13°44 | 9°39 | 28°46 | 5° 5 | 10°26 | 21°48 | 2°10 | 15°46 | 6°19 | 8° 7 | 25°42 | 6°53 | M16 | | | | | |
| T 17 | 11 41 27 | 27° 3'09 | 17°35 | 13° 3 | 10°43 | 29°25 | 5° 3 | 10°23 | 21°48 | 2°10 | 15°47 | 6°15 | 8° 4 | 25°48 | 6°55 | T 17 | | | | | |
| W18 | 11 45 23 | 28° 3'10 | 1♌59 | 12°27 | 11°47 | 0♌ 4 | 5° 0 | 10°20 | 21°49 | 2° 9 | 15°48 | 6°D14 | 8° 1 | 25°55 | 6°57 | W18 | | | | | |
| T 19 | 11 49 20 | 29° 3'10 | 15°57 | 11°59 | 12°52 | 0°43 | 4°58 | 10°18 | 21°49 | 2° 8 | 15°50 | 6°14 | 7°58 | 26° 2 | 6°59 | T 19 | | | | | |
| F 20 | 11 53 16 | 0♌37 | 29°26 | 11°37 | 13°56 | 1°22 | 4°56 | 10°15 | 21°49 | 2° 7 | 15°51 | 6°16 | 7°55 | 26° 9 | 7° 1 | F 20 | | | | | |
| S 21 | 11 57 13 | 1° 3'01 | 12♌30 | 11°21 | 15° 1 | 2° 0 | 4°54 | 10°12 | 21°50 | 2° 7 | 15°53 | 6°17 | 7°51 | 26°15 | 7° 3 | S 21 | | | | | |
| S 22 | 12 1 10 | 2° 2'54 | 25°11 | 11°13 | 16° 6 | 2°39 | 4°52 | 10° 9 | 21°50 | 2° 6 | 15°54 | 6°18 | 7°48 | 26°22 | 7° 6 | S 22 | | | | | |
| M23 | 12 5 6 | 3° 2'45 | 7♌32 | 11°D10 | 17°11 | 3°18 | 4°50 | 10° 6 | 21°50 | 2° 5 | 15°56 | 6°R19 | 7°45 | 26°29 | 7° 8 | M23 | | | | | |
| T 24 | 12 9 3 | 4° 2'33 | 19°40 | 11°13 | 18°17 | 3°57 | 4°49 | 10° 2 | 21°50 | 2° 5 | 15°57 | 6°17 | 7°42 | 26°35 | 7°11 | T 24 | | | | | |
| W25 | 12 12 59 | 5° 2'19 | 1♌38 | 11°23 | 19°22 | 4°36 | 4°48 | 9°59 | 21°50 | 2° 4 | 15°58 | 6°14 | 7°39 | 26°42 | 7°13 | W25 | | | | | |
| T 26 | 12 16 56 | 6° 2'03 | 13°31 | 11°38 | 20°28 | 5°15 | 4°47 | 9°56 | 21°R50 | 2° 3 | 16° 0 | 6°10 | 7°36 | 26°49 | 7°16 | T 26 | | | | | |
| F 27 | 12 20 52 | 7° 1'45 | 25°22 | 11°58 | 21°34 | 5°54 | 4°46 | 9°52 | 21°50 | 2° 3 | 16° 1 | 6° 6 | 7°32 | 26°56 | 7°18 | F 27 | | | | | |
| S 28 | 12 24 49 | 8° 1'24 | 7♌15 | 12°23 | 22°40 | 6°33 | 4°46 | 9°49 | 21°50 | 2° 2 | 16° 3 | 6° 0 | 7°29 | 27° 2 | 7°21 | S 28 | | | | | |
| S 29 | 12 28 45 | 9° 1'02 | 19°12 | 12°53 | 23°47 | 7°12 | 4°45 | 9°45 | 21°50 | 2° 2 | 16° 4 | 5°56 | 7°26 | 27° 9 | 7°24 | S 29 | | | | | |
| M30 | 12 32 42 | 10° 0'37 | 1♌15 | 13°27 | 24°53 | 7°51 | 4°D45 | 9°42 | 21°50 | 2° 1 | 16° 6 | 5°52 | 7°23 | 27°16 | 7°26 | M30 | | | | | |
| T 31 | 12 36 38 | 11°0'10 | 13♌26 | 14°♌ 5 | 26°♌ 0 | 8♌29 | 4♌45 | 9♌38 | 21♌50 | 2♌ 1 | 16°♌ 7 | 5♌49 | 7♌20 | 27♌22 | 7♌29 | T 31 | | | | | |

Delta T = 18m26s

APRIL 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | Day |
|------|----------|-----------|--------|-------|--------|-------|------|-------|--------|-------|--------|-------|------|-------|------|------|---|---|---|---|-----|
| W 1 | 12 40 35 | 11°♌59°42 | 25♌46 | 14♌47 | 27°♌ 7 | 9♌ 8 | 4♌45 | 9°R34 | 21°R49 | 2°R 1 | 16°♌ 9 | 5°R47 | 7♌16 | 27♌29 | 7♌32 | W 1 | | | | | |
| T 2 | 12 44 32 | 12°59'11 | 8♌17 | 15°33 | 28°14 | 9°47 | 4°46 | 9♌30 | 21°49 | 2° 0 | 16°10 | 5°D47 | 7°13 | 27°36 | 7°35 | T 2 | | | | | |
| F 3 | 12 48 28 | 13°58'39 | 20°59 | 16°23 | 29°21 | 10°26 | 4°46 | 9°26 | 21°49 | 2° 0 | 16°12 | 5♌47 | 7°10 | 27°43 | 7°38 | F 3 | | | | | |
| S 4 | 12 52 25 | 14°58'05 | 3♌55 | 17°15 | 0♌29 | 11° 5 | 4°47 | 9°22 | 21°48 | 2° 0 | 16°13 | 5°49 | 7° 7 | 27°49 | 7°41 | S 4 | | | | | |
| S 5 | 12 56 21 | 15°57'29 | 17° 5 | 18°11 | 1°36 | 11°44 | 4°48 | 9°18 | 21°48 | 2° 0 | 16°15 | 5°50 | 7° 4 | 27°56 | 7°44 | S 5 | | | | | |
| M 6 | 13 0 18 | 16°56'51 | 0♌31 | 19° 9 | 2°44 | 12°22 | 4°49 | 9°14 | 21°47 | 1°59 | 16°16 | 5°51 | 7° 1 | 28° 3 | 7°47 | M 6 | | | | | |
| T 7 | 13 4 14 | 17°56'12 | 14°14 | 20°11 | 3°52 | 13° 1 | 4°51 | 9°10 | 21°47 | 1°59 | 16°17 | 5°R52 | 6°57 | 28° 9 | 7°50 | T 7 | | | | | |
| W 8 | 13 8 11 | 18°55'31 | 28°14 | 21°15 | 4°59 | 13°40 | 4°52 | 9° 6 | 21°46 | 1°59 | 16°19 | 5°52 | 6°54 | 28°16 | 7°54 | W 8 | | | | | |
| T 9 | 13 12 7 | 19°54'48 | 12♌31 | 22°21 | 6° 7 | 14°19 | 4°54 | 9° 2 | 21°45 | 1°59 | 16°20 | 5°51 | 6°51 | 28°23 | 7°57 | T 9 | | | | | |
| F 10 | 13 16 4 | 20°54'03 | 27° 2 | 23°30 | 7°16 | 14°57 | 4°56 | 8°58 | 21°45 | 1°59 | 16°22 | 5°49 | 6°48 | 28°30 | 8° 0 | F 10 | | | | | |
| S 11 | 13 20 1 | 21°53'17 | 11♌42 | 24°41 | 8°24 | 15°36 | 4°58 | 8°54 | 21°44 | 1°59 | 16°23 | 5°48 | 6°45 | 28°36 | 8° 3 | S 11 | | | | | |
| S 12 | 13 23 57 | 22°52'29 | 26°27 | 25°54 | 9°32 | 16°15 | 5° 0 | 8°49 | 21°43 | 1°D59 | 16°25 | 5°46 | 6°42 | 28°43 | 8° 7 | S 12 | | | | | |
| M13 | 13 27 54 | 23°51'39 | 11°♌ 8 | 27° 9 | 10°41 | 16°54 | 5° 3 | 8°45 | 21°42 | 1°59 | 16°26 | 5°45 | 6°38 | 28°50 | 8°10 | M13 | | | | | |
| T 14 | 13 31 50 | 24°50'47 | 25°39 | 28°26 | 11°49 | 17°32 | 5° 5 | 8°40 | 21°41 | 1°59 | 16°28 | 5°44 | 6°35 | 28°56 | 8°14 | T 14 | | | | | |
| W15 | 13 35 47 | 25°49'53 | 9♌54 | 29°45 | 12°58 | 18°11 | 5° 8 | 8°36 | 21°40 | 1°59 | 16°29 | 5°D44 | 6°32 | 29° 3 | 8°17 | W15 | | | | | |
| T 16 | 13 39 43 | 26°48'57 | 23°49 | 1°♌ 6 | 14° 7 | 18°50 | 5°11 | 8°32 | 21°39 | 1°59 | 16°31 | 5°44 | 6°29 | 29°10 | 8°21 | T 16 | | | | | |
| F 17 | 13 43 40 | 27°47'59 | 7♌20 | 2°29 | 15°16 | 19°28 | 5°14 | 8°27 | 21°38 | 1°59 | 16°32 | 5°45 | 6°26 | 29°17 | 8°24 | F 17 | | | | | |
| S 18 | 13 47 36 | 28°46'58 | 20°27 | 3°54 | 16°25 | 20° 7 | 5°18 | 8°23 | 21°37 | 2° 0 | 16°34 | 5°46 | 6°22 | 29°23 | 8°28 | S 18 | | | | | |
| S 19 | 13 51 33 | 29°45'56 | 3♌13 | 5°20 | 17°34 | 20°46 | 5°21 | 8°18 | 21°36 | 2° 0 | 16°35 | 5°46 | 6°19 | 29°30 | 8°31 | S 19 | | | | | |
| M20 | 13 55 30 | 0♌44'51 | 15°39 | 6°48 | 18°43 | 21°24 | 5°25 | 8°14 | 21°34 | 2° 0 | 16°36 | 5°47 | 6°16 | 29°37 | 8°35 | M20 | | | | | |
| T 21 | 13 59 26 | 1°43'44 | 27°50 | 8°18 | 19°52 | 22° 3 | 5°29 | 8° 9 | 21°33 | 2° 0 | 16°38 | 5°R47 | 6°13 | 29°43 | 8°39 | T 21 | | | | | |
| W22 | 14 3 23 | 2°42'35 | 9♌50 | 9°49 | 21° 2 | 22°42 | 5°33 | 8° 5 | 21°32 | 2° 1 | 16°39 | 5°47 | 6°10 | 29°50 | 8°43 | W22 | | | | | |
| T 23 | 14 7 19 | 3°41'23 | 21°44 | 11°22 | 22°11 | 23°20 | 5°37 | 8° 0 | 21°30 | 2° 1 | 16°41 | 5°47 | 6° 7 | 29°57 | 8°46 | T 23 | | | | | |
| F 24 | 14 11 16 | 4°40'10 | 3♌36 | 12°57 | 23°20 | 23°59 | 5°41 | 7°55 | 21°29 | 2° 1 | 16°42 | 5°47 | 6° 3 | 0♌ 4 | 8°50 | F 24 | | | | | |
| S 25 | 14 15 12 | 5°38'54 | 15°30 | 14°33 | 24°30 | 24°37 | 5°46 | 7°51 | 21°28 | 2° 2 | 16°44 | 5°D46 | 6° 0 | 0°10 | 8°54 | S 25 | | | | | |
| S 26 | 14 19 9 | 6°37'35 | 27°30 | 16°11 | 25°40 | 25°16 | 5°51 | 7°46 | 21°26 | 2° 2 | 16°45 | 5°47 | 5°57 | 0°17 | 8°58 | S 26 | | | | | |
| M27 | 14 23 5 | 7°36'15 | 9♌40 | 17°51 | 26°49 | 25°54 | 5°56 | 7°42 | 21°25 | 2° 3 | 16°46 | 5°47 | 5°54 | 0°24 | 9° 2 | M27 | | | | | |
| T 28 | 14 27 2 | 8°34'53 | 22° 1 | 19°32 | 27°59 | 26°33 | 6° 1 | 7°37 | 21°23 | 2° 3 | 16°48 | 5°47 | 5°51 | 0°30 | 9° 6 | T 28 | | | | | |
| W29 | 14 30 58 | 9°33'29 | 4♌37 | 21°15 | 29° 9 | 27°11 | 6° 6 | 7°32 | 21°21 | 2° 4 | 16°49 | 5°R47 | 5°47 | 0°37 | 9°10 | W29 | | | | | |
| T 30 | 14 34 55 | 10°32'03 | 17♌26 | 22°59 | 0♌19 | 27♌50 | 6♌11 | 7♌28 | 21°20 | 2♌ 5 | 16°♌50 | 5♌47 | 5♌44 | 0♌44 | 9♌14 | T 30 | | | | | |

Delta T = 18m26s

ASTRODIENST EPHEMERIS for the year 2572
geocentric

MAY 2572

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|------|-------|--------|------|-------|-------|------|------|-------|------|---|---|---|---|-----|
| F 1 | 14 38 52 | 11♂30'35 | 0♄31 | 24♃46 | 1♃29 | 28♂28 | 6♂17 | 7°R23 | 21°R18 | 2♂5 | 16♃52 | 5°R46 | 5♂41 | 0♄51 | 9♂18 | F 1 | | | | | |
| S 2 | 14 42 48 | 12°29'05 | 13°50 | 26°33 | 2°39 | 29°7 | 6°22 | 7♂19 | 21♄16 | 2°6 | 16°53 | 5♂46 | 5°38 | 0°57 | 9°22 | S 2 | | | | | |
| S 3 | 14 46 45 | 13°27'34 | 27°22 | 28°23 | 3°49 | 29°45 | 6°28 | 7°14 | 21°15 | 2°7 | 16°55 | 5°45 | 5°35 | 1°4 | 9°26 | S 3 | | | | | |
| M 4 | 14 50 41 | 14°26'01 | 11♂7 | 0♄14 | 4°59 | 0♄24 | 6°34 | 7°9 | 21°13 | 2°7 | 16°56 | 5°44 | 5°32 | 1°11 | 9°30 | M 4 | | | | | |
| T 5 | 14 54 38 | 15°24'26 | 25°2 | 2°7 | 6°10 | 1°2 | 6°40 | 7°5 | 21°11 | 2°8 | 16°57 | 5°43 | 5°28 | 1°17 | 9°34 | T 5 | | | | | |
| W 6 | 14 58 34 | 16°22'50 | 9♄6 | 4°2 | 7°20 | 1°41 | 6°47 | 7°0 | 21°9 | 2°9 | 16°58 | 5°43 | 5°25 | 1°24 | 9°38 | W 6 | | | | | |
| T 7 | 15 2 31 | 17°21'13 | 23°17 | 5°58 | 8°30 | 2°19 | 6°53 | 6°56 | 21°7 | 2°10 | 17°0 | 5°D43 | 5°22 | 1°31 | 9°42 | T 7 | | | | | |
| F 8 | 15 6 27 | 18°19'33 | 7♄32 | 7°56 | 9°41 | 2°57 | 7°0 | 6°51 | 21°5 | 2°10 | 17°1 | 5°43 | 5°19 | 1°38 | 9°46 | F 8 | | | | | |
| S 9 | 15 10 24 | 19°17'53 | 21°51 | 9°55 | 10°51 | 3°36 | 7°6 | 6°47 | 21°3 | 2°11 | 17°2 | 5°44 | 5°16 | 1°44 | 9°51 | S 9 | | | | | |
| S 10 | 15 14 21 | 20°16'10 | 6♃8 | 11°57 | 12°2 | 4°14 | 7°13 | 6°43 | 21°1 | 2°12 | 17°4 | 5°45 | 5°13 | 1°51 | 9°55 | S 10 | | | | | |
| M 11 | 15 18 17 | 21°14'27 | 20°21 | 13°59 | 13°12 | 4°53 | 7°20 | 6°38 | 20°59 | 2°13 | 17°5 | 5°46 | 5°9 | 1°58 | 9°59 | M 11 | | | | | |
| T 12 | 15 22 14 | 22°12'42 | 4♄26 | 16°4 | 14°23 | 5°31 | 7°27 | 6°34 | 20°57 | 2°14 | 17°6 | 5°R46 | 5°6 | 2°4 | 10°3 | T 12 | | | | | |
| W 13 | 15 26 10 | 23°10'55 | 18°19 | 18°9 | 15°34 | 6°9 | 7°35 | 6°29 | 20°55 | 2°15 | 17°7 | 5°46 | 5°3 | 2°11 | 10°8 | W 13 | | | | | |
| T 14 | 15 30 7 | 24°9'06 | 1♂58 | 20°16 | 16°44 | 6°48 | 7°42 | 6°25 | 20°53 | 2°16 | 17°9 | 5°45 | 5°0 | 2°18 | 10°12 | T 14 | | | | | |
| F 15 | 15 34 3 | 25°7'16 | 15°19 | 22°24 | 17°55 | 7°26 | 7°49 | 6°21 | 20°51 | 2°17 | 17°10 | 5°43 | 4°57 | 2°24 | 10°16 | F 15 | | | | | |
| S 16 | 15 38 0 | 26°5'24 | 28°21 | 24°33 | 19°6 | 8°4 | 7°57 | 6°17 | 20°49 | 2°18 | 17°11 | 5°40 | 4°53 | 2°31 | 10°21 | S 16 | | | | | |
| S 17 | 15 41 56 | 27°3'31 | 11♄5 | 26°43 | 20°17 | 8°43 | 8°5 | 6°13 | 20°47 | 2°19 | 17°12 | 5°37 | 4°50 | 2°38 | 10°25 | S 17 | | | | | |
| M 18 | 15 45 53 | 28°1'35 | 23°32 | 28°53 | 21°28 | 9°21 | 8°13 | 6°8 | 20°44 | 2°21 | 17°13 | 5°33 | 4°47 | 2°45 | 10°29 | M 18 | | | | | |
| T 19 | 15 49 50 | 28°59'38 | 5♂44 | 1♂4 | 22°39 | 9°59 | 8°21 | 6°4 | 20°42 | 2°22 | 17°15 | 5°31 | 4°44 | 2°51 | 10°34 | T 19 | | | | | |
| W 20 | 15 53 46 | 29°57'39 | 17°46 | 3°14 | 23°50 | 10°37 | 8°29 | 6°0 | 20°40 | 2°23 | 17°16 | 5°29 | 4°41 | 2°58 | 10°38 | W 20 | | | | | |
| T 21 | 15 57 43 | 0♂55'38 | 29°40 | 5°25 | 25°1 | 11°16 | 8°37 | 5°56 | 20°38 | 2°24 | 17°17 | 5°D29 | 4°38 | 3°5 | 10°42 | T 21 | | | | | |
| F 22 | 16 1 39 | 1°53'35 | 11♄32 | 7°35 | 26°12 | 11°54 | 8°46 | 5°53 | 20°35 | 2°26 | 17°18 | 5°29 | 4°34 | 3°11 | 10°47 | F 22 | | | | | |
| S 23 | 16 5 36 | 2°51'30 | 23°26 | 9°44 | 27°23 | 12°32 | 8°54 | 5°49 | 20°33 | 2°27 | 17°19 | 5°30 | 4°31 | 3°18 | 10°51 | S 23 | | | | | |
| S 24 | 16 9 32 | 3°49'24 | 5♄28 | 11°53 | 28°34 | 13°10 | 9°3 | 5°45 | 20°31 | 2°28 | 17°20 | 5°32 | 4°28 | 3°25 | 10°55 | S 24 | | | | | |
| M 25 | 16 13 29 | 4°47'16 | 17°42 | 14°0 | 29°45 | 13°49 | 9°12 | 5°41 | 20°28 | 2°29 | 17°21 | 5°33 | 4°25 | 3°32 | 11°0 | M 25 | | | | | |
| T 26 | 16 17 25 | 5°45'06 | 0♂11 | 16°5 | 0♄56 | 14°27 | 9°20 | 5°37 | 20°26 | 2°31 | 17°22 | 5°R34 | 4°22 | 3°38 | 11°4 | T 26 | | | | | |
| W 27 | 16 21 22 | 6°42'55 | 12°59 | 18°9 | 2°8 | 15°5 | 9°29 | 5°34 | 20°24 | 2°32 | 17°23 | 5°34 | 4°19 | 3°45 | 11°9 | W 27 | | | | | |
| T 28 | 16 25 19 | 7°40'42 | 26°6 | 20°10 | 3°19 | 15°43 | 9°38 | 5°30 | 20°21 | 2°34 | 17°24 | 5°33 | 4°15 | 3°52 | 11°13 | T 28 | | | | | |
| F 29 | 16 29 15 | 8°38'28 | 9♄32 | 22°9 | 4°30 | 16°21 | 9°48 | 5°27 | 20°19 | 2°35 | 17°25 | 5°30 | 4°12 | 3°58 | 11°18 | F 29 | | | | | |
| S 30 | 16 33 12 | 9°36'13 | 23°17 | 24°6 | 5°41 | 16°59 | 9°57 | 5°23 | 20°16 | 2°37 | 17°26 | 5°25 | 4°9 | 4°5 | 11°22 | S 30 | | | | | |
| S 31 | 16 37 8 | 10♂33'56 | 7♄17 | 26♂1 | 6♄53 | 17♄38 | 10♂6 | 5♂20 | 20♄14 | 2♂38 | 17♃27 | 5♂20 | 4♂6 | 4♄12 | 11♂26 | S 31 | | | | | |

Delta T = 18m27s

JUNE 2572

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|------|------|-------|------|---|---|---|---|-----|
| M 1 | 16 41 5 | 11♂31'38 | 21♄28 | 27♂52 | 8♄4 | 18♄16 | 10♂16 | 5°R17 | 20°R12 | 2♂40 | 17♃28 | 5°R15 | 4♂3 | 4♄18 | 11♂31 | M 1 | | | | | |
| T 2 | 16 45 1 | 12°29'19 | 5♄45 | 29°41 | 9°16 | 18°54 | 10°25 | 5♂14 | 20♄9 | 2°41 | 17°29 | 5♂10 | 3°59 | 4°25 | 11°35 | T 2 | | | | | |
| W 3 | 16 48 58 | 13°26'59 | 20°4 | 1♄27 | 10°27 | 19°32 | 10°35 | 5°11 | 20°7 | 2°43 | 17°30 | 5°6 | 3°56 | 4°32 | 11°40 | W 3 | | | | | |
| T 4 | 16 52 55 | 14°24'38 | 4♄20 | 3°11 | 11°39 | 20°10 | 10°45 | 5°8 | 20°4 | 2°44 | 17°31 | 5°4 | 3°53 | 4°39 | 11°44 | T 4 | | | | | |
| F 5 | 16 56 51 | 15°22'16 | 18°32 | 4°51 | 12°50 | 20°48 | 10°55 | 5°5 | 20°2 | 2°46 | 17°32 | 5°D4 | 3°50 | 4°45 | 11°49 | F 5 | | | | | |
| S 6 | 17 0 48 | 16°19'53 | 2♃38 | 6°28 | 14°2 | 21°26 | 11°5 | 5°2 | 19°59 | 2°48 | 17°33 | 5°5 | 3°47 | 4°52 | 11°53 | S 6 | | | | | |
| S 7 | 17 4 44 | 17°17'30 | 16°35 | 8°3 | 15°13 | 22°4 | 11°15 | 4°59 | 19°57 | 2°49 | 17°34 | 5°6 | 3°44 | 4°59 | 11°58 | S 7 | | | | | |
| M 8 | 17 8 41 | 18°15'05 | 0♄23 | 9°34 | 16°25 | 22°42 | 11°25 | 4°56 | 19°54 | 2°51 | 17°34 | 5°R7 | 3°40 | 5°5 | 12°2 | M 8 | | | | | |
| T 9 | 17 12 37 | 19°12'40 | 14°2 | 11°2 | 17°37 | 23°20 | 11°35 | 4°53 | 19°52 | 2°53 | 17°35 | 5°7 | 3°37 | 5°12 | 12°6 | T 9 | | | | | |
| W 10 | 17 16 34 | 20°10'14 | 27°29 | 12°27 | 18°48 | 23°58 | 11°45 | 4°51 | 19°49 | 2°54 | 17°36 | 5°5 | 3°34 | 5°19 | 12°11 | W 10 | | | | | |
| T 11 | 17 20 30 | 21°7'47 | 10♂46 | 13°49 | 20°0 | 24°36 | 11°56 | 4°48 | 19°47 | 2°56 | 17°37 | 5°1 | 3°31 | 5°25 | 12°15 | T 11 | | | | | |
| F 12 | 17 24 27 | 22°5'19 | 23°49 | 15°8 | 21°12 | 25°14 | 12°6 | 4°46 | 19°44 | 2°58 | 17°38 | 4°54 | 3°28 | 5°32 | 12°20 | F 12 | | | | | |
| S 13 | 17 28 24 | 23°2'50 | 6♄38 | 16°23 | 22°24 | 25°53 | 12°17 | 4°44 | 19°42 | 3°0 | 17°38 | 4°46 | 3°25 | 5°39 | 12°24 | S 13 | | | | | |
| S 14 | 17 32 20 | 24°0'20 | 19°13 | 17°35 | 23°35 | 26°31 | 12°28 | 4°42 | 19°39 | 3°1 | 17°39 | 4°38 | 3°21 | 5°46 | 12°28 | S 14 | | | | | |
| M 15 | 17 36 17 | 24°57'49 | 1♂35 | 18°44 | 24°47 | 27°9 | 12°38 | 4°39 | 19°37 | 3°3 | 17°40 | 4°29 | 3°18 | 5°52 | 12°33 | M 15 | | | | | |
| T 16 | 17 40 13 | 25°55'17 | 13°44 | 19°49 | 25°59 | 27°47 | 12°49 | 4°37 | 19°34 | 3°5 | 17°40 | 4°21 | 3°15 | 5°59 | 12°37 | T 16 | | | | | |
| W 17 | 17 44 10 | 26°52'44 | 25°43 | 20°51 | 27°11 | 28°25 | 13°0 | 4°35 | 19°32 | 3°7 | 17°41 | 4°15 | 3°12 | 6°6 | 12°42 | W 17 | | | | | |
| T 18 | 17 48 6 | 27°50'09 | 7♄36 | 21°49 | 28°23 | 29°3 | 13°11 | 4°34 | 19°29 | 3°9 | 17°42 | 4°10 | 3°9 | 6°12 | 12°46 | T 18 | | | | | |
| F 19 | 17 52 3 | 28°47'34 | 19°27 | 22°44 | 29°35 | 29°41 | 13°22 | 4°32 | 19°27 | 3°11 | 17°42 | 4°8 | 3°5 | 6°19 | 12°50 | F 19 | | | | | |
| S 20 | 17 55 59 | 29°44'57 | 1♄20 | 23°35 | 0♂47 | 0♂19 | 13°33 | 4°30 | 19°25 | 3°13 | 17°43 | 4°D7 | 3°2 | 6°26 | 12°55 | S 20 | | | | | |
| S 21 | 17 59 56 | 0♄24'20 | 13°21 | 24°22 | 1°59 | 0°56 | 13°45 | 4°29 | 19°22 | 3°15 | 17°44 | 4°8 | 2°59 | 6°32 | 12°59 | S 21 | | | | | |
| M 22 | 18 3 53 | 1°39'41 | 25°35 | 25°6 | 3°11 | 1°34 | 13°56 | 4°27 | 19°20 | 3°16 | 17°44 | 4°9 | 2°56 | 6°39 | 13°3 | M 22 | | | | | |
| T 23 | 18 7 49 | 2°37'02 | 8♂7 | 25°45 | 4°23 | 2°12 | 14°7 | 4°26 | 19°17 | 3°18 | 17°45 | 4°R9 | 2°53 | 6°46 | 13°7 | T 23 | | | | | |
| W 24 | 18 11 46 | 3°34'22 | 21°0 | 26°20 | 5°35 | 2°50 | 14°19 | 4°24 | 19°15 | 3°20 | 17°45 | 4°8 | 2°50 | 6°53 | 13°12 | W 24 | | | | | |
| T 25 | 18 15 42 | 4°31'41 | 4♄18 | 26°51 | 6°47 | 3°28 | 14°30 | 4°23 | 19°13 | 3°22 | 17°46 | 4°4 | 2°46 | 6°59 | 13°16 | T 25 | | | | | |
| F 26 | 18 19 39 | 5°28'59 | 18°1 | 27°18 | 7°59 | 4°6 | 14°42 | 4°22 | 19°10 | 3°24 | 17°46 | 3°58 | 2°43 | 7°6 | 13°20 | F 26 | | | | | |
| S 27 | 18 23 35 | 6°26'17 | 2♄7 | 27°40 | 9°11 | 4°44 | 14°53 | 4°21 | 19°8 | 3°26 | 17°47 | 3°51 | 2°40 | 7°13 | 13°24 | S 27 | | | | | |
| S 28 | 18 27 32 | 7°23'34 | 16°32 | 27°58 | 10°23 | 5°22 | 15°5 | 4°20 | 19°6 | 3°28 | 17°47 | 3°41 | 2°37 | 7°19 | 13°29 | S 28 | | | | | |
| M 29 | 18 31 28 | 8°20'50 | 1♄10 | 28°11 | 11°35 | 6°0 | 15°17 | 4°19 | 19°3 | 3°31 | 17°47 | 3°32 | 2°34 | 7°26 | 13°33 | M 29 | | | | | |
| T 30 | 18 35 25 | 9♄18'06 | 15♄53 | 28♄20 | 12♂48 | 6♂38 | 15♂29 | 4♂19 | 19♄1 | 3♂33 | 17♃48 | 3♂23 | 2♂31 | 7♄33 | 13♂37 | T 30 | | | | | |

Delta T = 18m27s

ASTRODIENST EPHEMERIS for the year 2572
geocentric

JULY 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|---------|--------|--------|-------|--------|-------|--------|-------|-------|-------|---------|------|
| W 1 | 18 39 22 | 10♄15'22 | 0♃34 | 28♂R24 | 14♂II 0 | 7♂♂16 | 15♂♂40 | 4♂R18 | 18♂R59 | 3♂♂35 | 17♂Y48 | 3♂R16 | 2♂♂27 | 7♂♂39 | 13♂II41 | W 1 |
| T 2 | 18 43 18 | 11°12'38 | 15° 6 | 28♂♂23 | 15°12 | 7°54 | 15°52 | 4♂♂18 | 18♂R56 | 3°37 | 17°48 | 3♂♂11 | 2°24 | 7°46 | 13°45 | T 2 |
| F 3 | 18 47 15 | 12° 9'53 | 29°25 | 28°18 | 16°25 | 8°32 | 16° 4 | 4°17 | 18°54 | 3°39 | 17°49 | 3° 9 | 2°21 | 7°53 | 13°49 | F 3 |
| S 4 | 18 51 11 | 13° 7'09 | 13♂Y29 | 28° 9 | 17°37 | 9° 9 | 16°16 | 4°17 | 18°52 | 3°41 | 17°49 | 3°D 8 | 2°18 | 8° 0 | 13°53 | S 4 |
| S 5 | 18 55 8 | 14° 4'24 | 27°17 | 27°55 | 18°49 | 9°47 | 16°28 | 4°17 | 18°50 | 3°43 | 17°49 | 3°R 8 | 2°15 | 8° 6 | 13°57 | S 5 |
| M 6 | 18 59 4 | 15° 1'40 | 10♂♂49 | 27°38 | 20° 2 | 10°25 | 16°40 | 4°17 | 18°48 | 3°45 | 17°50 | 3° 8 | 2°11 | 8°13 | 14° 1 | M 6 |
| T 7 | 19 3 1 | 15°58'56 | 24° 9 | 27°16 | 21°14 | 11° 3 | 16°53 | 4°D17 | 18°46 | 3°47 | 17°50 | 3° 7 | 2° 8 | 8°20 | 14° 5 | T 7 |
| W 8 | 19 6 57 | 16°56'11 | 7♂II15 | 26°51 | 22°27 | 11°41 | 17° 5 | 4°17 | 18°44 | 3°49 | 17°50 | 3° 3 | 2° 5 | 8°26 | 14° 9 | W 8 |
| T 9 | 19 10 54 | 17°53'27 | 20°10 | 26°22 | 23°39 | 12°19 | 17°17 | 4°17 | 18°41 | 3°52 | 17°50 | 2°56 | 2° 2 | 8°33 | 14°13 | T 9 |
| F 10 | 19 14 51 | 18°50'42 | 2♂♂53 | 25°51 | 24°52 | 12°57 | 17°29 | 4°17 | 18°39 | 3°54 | 17°50 | 2°46 | 1°59 | 8°40 | 14°17 | F 10 |
| S 11 | 19 18 47 | 19°47'58 | 15°26 | 25°18 | 26° 4 | 13°35 | 17°42 | 4°18 | 18°37 | 3°56 | 17°51 | 2°35 | 1°56 | 8°46 | 14°21 | S 11 |
| S 12 | 19 22 44 | 20°45'13 | 27°48 | 24°42 | 27°17 | 14°13 | 17°54 | 4°18 | 18°35 | 3°58 | 17°51 | 2°22 | 1°52 | 8°53 | 14°25 | S 12 |
| M13 | 19 26 40 | 21°42'29 | 10♂♂0 | 24° 6 | 28°29 | 14°51 | 18° 7 | 4°19 | 18°33 | 4° 0 | 17°51 | 2° 9 | 1°49 | 9° 0 | 14°28 | M13 |
| T 14 | 19 30 37 | 22°39'44 | 22° 3 | 23°29 | 29°42 | 15°28 | 18°19 | 4°19 | 18°32 | 4° 2 | 17°51 | 1°57 | 1°46 | 9° 7 | 14°32 | T 14 |
| W15 | 19 34 33 | 23°36'59 | 3♂♂59 | 22°52 | 0♂♂55 | 16° 6 | 18°32 | 4°20 | 18°30 | 4° 5 | 17°51 | 1°46 | 1°43 | 9°13 | 14°36 | W15 |
| T 16 | 19 38 30 | 24°34'14 | 15°49 | 22°15 | 2° 7 | 16°44 | 18°44 | 4°21 | 18°28 | 4° 7 | 17°51 | 1°39 | 1°40 | 9°20 | 14°40 | T 16 |
| F 17 | 19 42 26 | 25°31'28 | 27°38 | 21°40 | 3°20 | 17°22 | 18°57 | 4°22 | 18°26 | 4° 9 | 17°R51 | 1°34 | 1°37 | 9°27 | 14°43 | F 17 |
| S 18 | 19 46 23 | 26°28'43 | 9♂♂29 | 21° 7 | 4°33 | 18° 0 | 19° 9 | 4°23 | 18°24 | 4°11 | 17°51 | 1°31 | 1°33 | 9°33 | 14°47 | S 18 |
| S 19 | 19 50 20 | 27°25'57 | 21°28 | 20°36 | 5°45 | 18°38 | 19°22 | 4°24 | 18°22 | 4°13 | 17°51 | 1°31 | 1°30 | 9°40 | 14°50 | S 19 |
| M20 | 19 54 16 | 28°23'11 | 3♂♂40 | 20° 9 | 6°58 | 19°16 | 19°35 | 4°26 | 18°21 | 4°16 | 17°51 | 1°30 | 1°27 | 9°47 | 14°54 | M20 |
| T 21 | 19 58 13 | 29°20'26 | 16°10 | 19°45 | 8°11 | 19°54 | 19°47 | 4°27 | 18°19 | 4°18 | 17°51 | 1°30 | 1°24 | 9°53 | 14°58 | T 21 |
| W22 | 20 2 9 | 0♂♂17'40 | 29° 3 | 19°25 | 9°24 | 20°31 | 20° 0 | 4°28 | 18°17 | 4°20 | 17°51 | 1°28 | 1°21 | 10° 0 | 15° 1 | W22 |
| T 23 | 20 6 6 | 1°14'54 | 12♂R23 | 19° 9 | 10°37 | 21° 9 | 20°13 | 4°30 | 18°16 | 4°22 | 17°51 | 1°24 | 1°17 | 10° 7 | 15° 4 | T 23 |
| F 24 | 20 10 2 | 2°12'09 | 26°11 | 18°58 | 11°50 | 21°47 | 20°26 | 4°32 | 18°14 | 4°25 | 17°51 | 1°18 | 1°14 | 10°13 | 15° 8 | F 24 |
| S 25 | 20 13 59 | 3° 9'23 | 10♂♂28 | 18°52 | 13° 3 | 22°25 | 20°39 | 4°33 | 18°13 | 4°27 | 17°50 | 1° 9 | 1°11 | 10°20 | 15°11 | S 25 |
| S 26 | 20 17 55 | 4° 6'38 | 25° 8 | 18°D52 | 14°16 | 23° 3 | 20°52 | 4°35 | 18°11 | 4°29 | 17°50 | 0°58 | 1° 8 | 10°27 | 15°15 | S 26 |
| M27 | 20 21 52 | 5° 3'53 | 10♂♂6 | 18°57 | 15°29 | 23°41 | 21° 4 | 4°37 | 18°10 | 4°31 | 17°50 | 0°47 | 1° 5 | 10°34 | 15°18 | M27 |
| T 28 | 20 25 49 | 6° 1'08 | 25°11 | 19° 7 | 16°42 | 24°19 | 21°17 | 4°39 | 18° 8 | 4°34 | 17°50 | 0°37 | 1° 2 | 10°40 | 15°21 | T 28 |
| W29 | 20 29 45 | 6°58'24 | 10♂R14 | 19°23 | 17°55 | 24°57 | 21°30 | 4°41 | 18° 7 | 4°36 | 17°50 | 0°29 | 0°58 | 10°47 | 15°24 | W29 |
| T 30 | 20 33 42 | 7°55'40 | 25° 5 | 19°45 | 19° 8 | 25°34 | 21°43 | 4°44 | 18° 6 | 4°38 | 17°49 | 0°23 | 0°55 | 10°54 | 15°27 | T 30 |
| F 31 | 20 37 38 | 8♂♂52'57 | 9♂Y38 | 20♂♂13 | 20♂♂21 | 26♂♂12 | 21♂♂56 | 4♂♂46 | 18♂R 4 | 4♂♂40 | 17♂Y49 | 0♂♂20 | 0♂♂52 | 11♂♂0 | 15♂II30 | F 31 |

Delta T = 18m27s

AUGUST 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|---------|------|
| S 1 | 20 41 35 | 9♂♂50'15 | 23♂Y50 | 20♂♂46 | 21♂♂34 | 26♂♂50 | 22♂♂9 | 4♂♂48 | 18°R 3 | 4♂♂42 | 17°R49 | 0°R19 | 0♂♂49 | 11♂♂7 | 15♂II34 | S 1 |
| S 2 | 20 45 31 | 10°47'34 | 7♂♂40 | 21°25 | 22°47 | 27°28 | 22°22 | 4°51 | 18°R 2 | 4°45 | 17°Y48 | 0♂♂19 | 0°46 | 11°14 | 15°37 | S 2 |
| M 3 | 20 49 28 | 11°44'54 | 21° 9 | 22°10 | 24° 0 | 28° 6 | 22°35 | 4°53 | 18° 1 | 4°47 | 17°48 | 0°18 | 0°43 | 11°20 | 15°40 | M 3 |
| T 4 | 20 53 24 | 12°42'15 | 4♂II18 | 23° 0 | 25°14 | 28°44 | 22°48 | 4°56 | 18° 0 | 4°49 | 17°48 | 0°17 | 0°39 | 11°27 | 15°42 | T 4 |
| W 5 | 20 57 21 | 13°39'37 | 17°12 | 23°56 | 26°27 | 29°22 | 23° 2 | 4°59 | 17°59 | 4°51 | 17°47 | 0°13 | 0°36 | 11°34 | 15°45 | W 5 |
| T 6 | 21 1 18 | 14°36'59 | 29°51 | 24°57 | 27°40 | 29°59 | 23°15 | 5° 2 | 17°58 | 4°53 | 17°47 | 0° 7 | 0°33 | 11°40 | 15°48 | T 6 |
| F 7 | 21 5 14 | 15°34'23 | 12♂♂19 | 26° 4 | 28°54 | 0♂♂38 | 23°28 | 5° 5 | 17°57 | 4°56 | 17°46 | 29♂♂57 | 0°30 | 11°47 | 15°51 | F 7 |
| S 8 | 21 9 11 | 16°31'47 | 24°37 | 27°16 | 0♂♂ 7 | 1°16 | 23°41 | 5° 8 | 17°56 | 4°58 | 17°46 | 29°46 | 0°27 | 11°54 | 15°54 | S 8 |
| S 9 | 21 13 7 | 17°29'13 | 6♂♂47 | 28°34 | 1°20 | 1°54 | 23°54 | 5°11 | 17°55 | 5° 0 | 17°45 | 29°33 | 0°23 | 12° 1 | 15°56 | S 9 |
| M10 | 21 17 4 | 18°26'39 | 18°49 | 29°56 | 2°34 | 2°31 | 24° 7 | 5°14 | 17°54 | 5° 2 | 17°45 | 29°21 | 0°20 | 12° 7 | 15°59 | M10 |
| T 11 | 21 21 0 | 19°24'06 | 0♂♂45 | 1♂♂23 | 3°47 | 3° 9 | 24°20 | 5°18 | 17°53 | 5° 4 | 17°44 | 29° 9 | 0°17 | 12°14 | 16° 2 | T 11 |
| W12 | 21 24 57 | 20°21'33 | 12°36 | 2°54 | 5° 1 | 3°47 | 24°33 | 5°21 | 17°53 | 5° 7 | 17°44 | 28°59 | 0°14 | 12°21 | 16° 4 | W12 |
| T 13 | 21 28 53 | 21°19'02 | 24°24 | 4°30 | 6°14 | 4°25 | 24°47 | 5°24 | 17°52 | 5° 9 | 17°43 | 28°51 | 0°11 | 12°27 | 16° 7 | T 13 |
| F 14 | 21 32 50 | 22°16'31 | 6♂♂13 | 6°10 | 7°28 | 5° 3 | 25° 0 | 5°28 | 17°51 | 5°11 | 17°43 | 28°46 | 0° 8 | 12°34 | 16° 9 | F 14 |
| S 15 | 21 36 47 | 23°14'01 | 18° 4 | 7°54 | 8°41 | 5°41 | 25°13 | 5°32 | 17°51 | 5°13 | 17°42 | 28°44 | 0° 4 | 12°41 | 16°11 | S 15 |
| S 16 | 21 40 43 | 24°11'32 | 0♂♂ 3 | 9°41 | 9°55 | 6°19 | 25°26 | 5°35 | 17°50 | 5°15 | 17°42 | 28°D43 | 0° 1 | 12°47 | 16°14 | S 16 |
| M17 | 21 44 40 | 25° 9'03 | 12°14 | 11°32 | 11° 9 | 6°57 | 25°39 | 5°39 | 17°50 | 5°17 | 17°41 | 28°44 | 29♂♂58 | 12°54 | 16°16 | M17 |
| T 18 | 21 48 36 | 26° 6'35 | 24°42 | 13°25 | 12°22 | 7°35 | 25°52 | 5°43 | 17°49 | 5°19 | 17°40 | 28°R44 | 29°55 | 13° 1 | 16°18 | T 18 |
| W19 | 21 52 33 | 27° 4'09 | 7♂R31 | 15°20 | 13°36 | 8°13 | 26° 6 | 5°47 | 17°49 | 5°22 | 17°40 | 28°44 | 29°52 | 13° 7 | 16°20 | W19 |
| T 20 | 21 56 29 | 28° 1'43 | 20°47 | 17°18 | 14°50 | 8°51 | 26°19 | 5°51 | 17°49 | 5°24 | 17°39 | 28°41 | 29°48 | 13°14 | 16°22 | T 20 |
| F 21 | 22 0 26 | 28°59'17 | 4♂♂32 | 19°17 | 16° 3 | 9°29 | 26°32 | 5°55 | 17°48 | 5°26 | 17°38 | 28°37 | 29°45 | 13°21 | 16°24 | F 21 |
| S 22 | 22 4 22 | 29°56'53 | 18°46 | 21°17 | 17°17 | 10° 7 | 26°45 | 5°59 | 17°48 | 5°28 | 17°38 | 28°31 | 29°42 | 13°27 | 16°26 | S 22 |
| S 23 | 22 8 19 | 0♂♂54'30 | 3♂♂28 | 23°19 | 18°31 | 10°45 | 26°58 | 6° 4 | 17°48 | 5°30 | 17°37 | 28°23 | 29°39 | 13°34 | 16°28 | S 23 |
| M24 | 22 12 16 | 1°52'07 | 18°30 | 25°20 | 19°45 | 11°23 | 27°11 | 6° 8 | 17°48 | 5°32 | 17°36 | 28°14 | 29°36 | 13°41 | 16°30 | M24 |
| T 25 | 22 16 12 | 2°49'46 | 3♂R45 | 27°23 | 20°59 | 12° 1 | 27°25 | 6°13 | 17°48 | 5°34 | 17°35 | 28° 6 | 29°33 | 13°48 | 16°32 | T 25 |
| W26 | 22 20 9 | 3°47'26 | 19° 1 | 29°25 | 22°13 | 12°39 | 27°38 | 6°17 | 17°D48 | 5°36 | 17°35 | 28° 0 | 29°29 | 13°54 | 16°34 | W26 |
| T 27 | 22 24 5 | 4°45'07 | 4♂Y 7 | 1♂♂27 | 23°27 | 13°17 | 27°51 | 6°22 | 17°48 | 5°38 | 17°34 | 27°55 | 29°26 | 14° 1 | 16°35 | T 27 |
| F 28 | 22 28 2 | 5°42'50 | 18°56 | 3°28 | 24°40 | 13°56 | 28° 4 | 6°26 | 17°48 | 5°40 | 17°33 | 27°53 | 29°23 | 14° 8 | 16°37 | F 28 |
| S 29 | 22 31 58 | 6°40'34 | 3♂♂21 | 5°29 | 25°54 | 14°34 | 28°17 | 6°31 | 17°48 | 5°42 | 17°32 | 27°D53 | 29°20 | 14°14 | 16°39 | S 29 |
| S 30 | 22 35 55 | 7°38'20 | 17°20 | 7°29 | 27° 8 | 15°12 | 28°30 | 6°36 | 17°48 | 5°44 | 17°31 | 27°54 | 29°17 | 14°21 | 16°40 | S 30 |
| M31 | 22 39 51 | 8♂♂36'08 | 0♂II54 | 9♂♂28 | 28♂♂22 | 15♂♂50 | 28♂♂43 | 6♂♂41 | 17♂R48 | 5♂♂46 | 17♂Y30 | 27♂♂55 | 29♂♂14 | 14♂♂28 | 16♂II42 | M31 |

Delta T = 18m27s

ASTRODIENST EPHEMERIS for the year 2572
geocentric

SEPTEMBER 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|------|-------|------|--------|--------|-------|-------|--------|------|---|-----|
| T 1 | 22 43 48 | 9♎33'57 | 14♏4 | 11♎26 | 29♏237 | 16♎28 | 28♏56 | 6♎46 | 17♏49 | 5♏48 | 17°R30 | 27°R55 | 29♏10 | 14♎34 | 16♏43 | T 1 | | |
| W 2 | 22 47 45 | 10°31'48 | 26°53 | 13°23 | 0♎51 | 17° 6 | 29° 9 | 6°51 | 17°49 | 5°50 | 17°Y29 | 27♏54 | 29° 7 | 14°41 | 16°44 | W 2 | | |
| T 3 | 22 51 41 | 11°29'41 | 9♏25 | 15°18 | 2° 5 | 17°44 | 29°22 | 6°56 | 17°49 | 5°52 | 17°28 | 27°50 | 29° 4 | 14°48 | 16°46 | T 3 | | |
| F 4 | 22 55 38 | 12°27'35 | 21°44 | 17°13 | 3°19 | 18°22 | 29°35 | 7° 1 | 17°50 | 5°53 | 17°27 | 27°45 | 29° 1 | 14°54 | 16°47 | F 4 | | |
| S 5 | 22 59 34 | 13°25'31 | 3♏52 | 19° 6 | 4°33 | 19° 1 | 29°48 | 7° 6 | 17°50 | 5°55 | 17°26 | 27°38 | 28°58 | 15° 1 | 16°48 | S 5 | | |
| S 6 | 23 3 31 | 14°23'29 | 15°52 | 20°58 | 5°47 | 19°39 | 0♎1 | 7°11 | 17°51 | 5°57 | 17°25 | 27°30 | 28°54 | 15° 8 | 16°49 | S 6 | | |
| M 7 | 23 7 27 | 15°21'28 | 27°47 | 22°49 | 7° 2 | 20°17 | 0°14 | 7°17 | 17°51 | 5°59 | 17°24 | 27°22 | 28°51 | 15°14 | 16°50 | M 7 | | |
| T 8 | 23 11 24 | 16°19'29 | 9♎38 | 24°38 | 8°16 | 20°55 | 0°27 | 7°22 | 17°52 | 6° 1 | 17°23 | 27°15 | 28°48 | 15°21 | 16°51 | T 8 | | |
| W 9 | 23 15 20 | 17°17'32 | 21°27 | 26°27 | 9°30 | 21°33 | 0°40 | 7°28 | 17°53 | 6° 3 | 17°22 | 27° 9 | 28°45 | 15°28 | 16°52 | W 9 | | |
| T 10 | 23 19 17 | 18°15'36 | 3♏16 | 28°13 | 10°44 | 22°12 | 0°53 | 7°33 | 17°54 | 6° 4 | 17°21 | 27° 4 | 28°42 | 15°34 | 16°53 | T 10 | | |
| F 11 | 23 23 13 | 19°13'42 | 15° 8 | 29°59 | 11°59 | 22°50 | 1° 6 | 7°39 | 17°54 | 6° 6 | 17°20 | 27° 1 | 28°39 | 15°41 | 16°53 | F 11 | | |
| S 12 | 23 27 10 | 20°11'49 | 27° 4 | 1♏44 | 13°13 | 23°28 | 1°18 | 7°44 | 17°55 | 6° 8 | 17°19 | 27°D 1 | 28°35 | 15°48 | 16°54 | S 12 | | |
| S 13 | 23 31 7 | 21° 9'57 | 9♎7 | 3°27 | 14°27 | 24° 6 | 1°31 | 7°50 | 17°56 | 6° 9 | 17°18 | 27° 1 | 28°32 | 15°54 | 16°55 | S 13 | | |
| M14 | 23 35 3 | 22° 8'08 | 21°22 | 5° 9 | 15°42 | 24°45 | 1°44 | 7°56 | 17°57 | 6°11 | 17°17 | 27° 3 | 28°29 | 16° 1 | 16°55 | M14 | | |
| T 15 | 23 39 0 | 23° 6'19 | 3♏52 | 6°50 | 16°56 | 25°23 | 1°57 | 8° 2 | 17°58 | 6°13 | 17°16 | 27° 4 | 28°26 | 16° 8 | 16°56 | T 15 | | |
| W16 | 23 42 56 | 24° 4'32 | 16°40 | 8°29 | 18°11 | 26° 1 | 2° 9 | 8° 7 | 17°59 | 6°14 | 17°15 | 27° 6 | 28°23 | 16°14 | 16°56 | W16 | | |
| T 17 | 23 46 53 | 25° 2'47 | 29°52 | 10° 8 | 19°25 | 26°40 | 2°22 | 8°13 | 18° 0 | 6°16 | 17°14 | 27°R 6 | 28°20 | 16°21 | 16°56 | T 17 | | |
| F 18 | 23 50 49 | 26° 1'03 | 13♏29 | 11°45 | 20°40 | 27°18 | 2°34 | 8°19 | 18° 1 | 6°18 | 17°13 | 27° 4 | 28°16 | 16°28 | 16°57 | F 18 | | |
| S 19 | 23 54 46 | 26°59'21 | 27°33 | 13°21 | 21°54 | 27°56 | 2°47 | 8°25 | 18° 3 | 6°19 | 17°12 | 27° 2 | 28°13 | 16°35 | 16°57 | S 19 | | |
| S 20 | 23 58 42 | 27°57'39 | 12♏3 | 14°56 | 23° 9 | 28°35 | 3° 0 | 8°31 | 18° 4 | 6°21 | 17°11 | 26°59 | 28°10 | 16°41 | 16°57 | S 20 | | |
| M21 | 0 2 39 | 28°56'00 | 26°55 | 16°30 | 24°23 | 29°13 | 3°12 | 8°37 | 18° 5 | 6°22 | 17° 9 | 26°55 | 28° 7 | 16°48 | 16°57 | M21 | | |
| T 22 | 0 6 36 | 29°54'22 | 12♏3 | 18° 3 | 25°38 | 29°51 | 3°24 | 8°44 | 18° 7 | 6°24 | 17° 8 | 26°51 | 28° 4 | 16°55 | 16°R57 | T 22 | | |
| W23 | 0 10 32 | 0♏52'46 | 27°16 | 19°35 | 26°52 | 0♏30 | 3°37 | 8°50 | 18° 8 | 6°25 | 17° 7 | 26°48 | 28° 0 | 17° 1 | 16°57 | W23 | | |
| T 24 | 0 14 29 | 1°51'11 | 12♏26 | 21° 5 | 28° 7 | 1° 8 | 3°49 | 8°56 | 18° 9 | 6°27 | 17° 6 | 26°46 | 27°57 | 17° 8 | 16°57 | T 24 | | |
| F 25 | 0 18 25 | 2°49'38 | 27°22 | 22°35 | 29°21 | 1°47 | 4° 1 | 9° 2 | 18°11 | 6°28 | 17° 5 | 26°D46 | 27°54 | 17°15 | 16°57 | F 25 | | |
| S 26 | 0 22 22 | 3°48'08 | 11♏57 | 24° 3 | 0♏36 | 2°25 | 4°14 | 9° 9 | 18°12 | 6°29 | 17° 4 | 26°46 | 27°51 | 17°21 | 16°57 | S 26 | | |
| S 27 | 0 26 18 | 4°46'40 | 26° 7 | 25°30 | 1°51 | 3° 4 | 4°26 | 9°15 | 18°14 | 6°31 | 17° 3 | 26°47 | 27°48 | 17°28 | 16°56 | S 27 | | |
| M28 | 0 30 15 | 5°45'13 | 9♏49 | 26°57 | 3° 5 | 3°42 | 4°38 | 9°22 | 18°16 | 6°32 | 17° 2 | 26°49 | 27°45 | 17°35 | 16°56 | M28 | | |
| T 29 | 0 34 11 | 6°43'49 | 23° 6 | 28°22 | 4°20 | 4°21 | 4°50 | 9°28 | 18°17 | 6°33 | 17° 0 | 26°50 | 27°41 | 17°41 | 16°56 | T 29 | | |
| W30 | 0 38 8 | 7♏42'27 | 5♏58 | 29♏45 | 5♏35 | 4♏59 | 5♏2 | 9♏35 | 18♏19 | 6♏35 | 16♏59 | 26°R51 | 27♏38 | 17♏48 | 16♏55 | W30 | | |

Delta T = 18m28s

OCTOBER 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|--------|------|---|-----|
| T 1 | 0 42 5 | 8♏41'08 | 18♏36 | 1♎8 | 6♏49 | 5♏38 | 5♏14 | 9♏41 | 18♏21 | 6♏36 | 16°R58 | 26°R50 | 27♏35 | 17♏55 | 16°R54 | T 1 | | |
| F 2 | 0 46 1 | 9°39'50 | 0♏46 | 2°30 | 8° 4 | 6°16 | 5°26 | 9°48 | 18°23 | 6°37 | 16°Y57 | 26♏49 | 27°32 | 18° 1 | 16°R54 | F 2 | | |
| S 3 | 0 49 58 | 10°38'35 | 12°50 | 3°50 | 9°19 | 6°55 | 5°38 | 9°54 | 18°25 | 6°38 | 16°56 | 26°47 | 27°29 | 18° 8 | 16°53 | S 3 | | |
| S 4 | 0 53 54 | 11°37'21 | 24°45 | 5° 9 | 10°33 | 7°34 | 5°50 | 10° 1 | 18°27 | 6°40 | 16°55 | 26°45 | 27°25 | 18°15 | 16°52 | S 4 | | |
| M 5 | 0 57 51 | 12°36'10 | 6♎36 | 6°26 | 11°48 | 8°12 | 6° 2 | 10° 8 | 18°29 | 6°41 | 16°53 | 26°43 | 27°22 | 18°21 | 16°51 | M 5 | | |
| T 6 | 1 1 47 | 13°35'01 | 18°25 | 7°42 | 13° 3 | 8°51 | 6°13 | 10°15 | 18°31 | 6°42 | 16°52 | 26°41 | 27°19 | 18°28 | 16°51 | T 6 | | |
| W 7 | 1 5 44 | 14°33'54 | 0♏15 | 8°57 | 14°18 | 9°29 | 6°25 | 10°21 | 18°33 | 6°43 | 16°51 | 26°39 | 27°16 | 18°35 | 16°50 | W 7 | | |
| T 8 | 1 9 40 | 15°32'49 | 12° 9 | 10°10 | 15°33 | 10° 8 | 6°36 | 10°28 | 18°35 | 6°44 | 16°50 | 26°38 | 27°13 | 18°41 | 16°49 | T 8 | | |
| F 9 | 1 13 37 | 16°31'46 | 24° 7 | 11°22 | 16°47 | 10°47 | 6°48 | 10°35 | 18°37 | 6°45 | 16°49 | 26°D38 | 27°10 | 18°48 | 16°47 | F 9 | | |
| S 10 | 1 17 33 | 17°30'45 | 6♎14 | 12°31 | 18° 2 | 11°26 | 6°59 | 10°42 | 18°39 | 6°46 | 16°47 | 26°38 | 27° 6 | 18°55 | 16°46 | S 10 | | |
| S 11 | 1 21 30 | 18°29'46 | 18°29 | 13°39 | 19°17 | 12° 4 | 7°11 | 10°49 | 18°41 | 6°47 | 16°46 | 26°38 | 27° 3 | 19° 1 | 16°45 | S 11 | | |
| M12 | 1 25 27 | 19°28'49 | 0♏56 | 14°45 | 20°32 | 12°43 | 7°22 | 10°56 | 18°44 | 6°48 | 16°45 | 26°39 | 27° 0 | 19° 8 | 16°44 | M12 | | |
| T 13 | 1 29 23 | 20°27'54 | 13°36 | 15°49 | 21°47 | 13°22 | 7°33 | 11° 3 | 18°46 | 6°49 | 16°44 | 26°40 | 26°57 | 19°15 | 16°42 | T 13 | | |
| W14 | 1 33 20 | 21°27'00 | 26°31 | 16°50 | 23° 2 | 14° 1 | 7°44 | 11°10 | 18°48 | 6°50 | 16°43 | 26°40 | 26°54 | 19°21 | 16°41 | W14 | | |
| T 15 | 1 37 16 | 22°26'09 | 9♏45 | 17°48 | 24°17 | 14°40 | 7°55 | 11°17 | 18°51 | 6°50 | 16°42 | 26°41 | 26°51 | 19°28 | 16°40 | T 15 | | |
| F 16 | 1 41 13 | 23°25'19 | 23°18 | 18°44 | 25°32 | 15°18 | 8° 6 | 11°24 | 18°53 | 6°51 | 16°40 | 26°R41 | 26°47 | 19°35 | 16°38 | F 16 | | |
| S 17 | 1 45 9 | 24°24'30 | 7♏12 | 19°37 | 26°47 | 15°57 | 8°17 | 11°31 | 18°56 | 6°52 | 16°39 | 26°41 | 26°44 | 19°41 | 16°36 | S 17 | | |
| S 18 | 1 49 6 | 25°23'43 | 21°26 | 20°26 | 28° 1 | 16°36 | 8°28 | 11°38 | 18°58 | 6°53 | 16°38 | 26°41 | 26°41 | 19°48 | 16°35 | S 18 | | |
| M19 | 1 53 2 | 26°22'58 | 5♏58 | 21°12 | 29°16 | 17°15 | 8°39 | 11°45 | 19° 1 | 6°54 | 16°37 | 26°D41 | 26°38 | 19°55 | 16°33 | M19 | | |
| T 20 | 1 56 59 | 27°22'15 | 20°45 | 21°54 | 0♎31 | 17°54 | 8°50 | 11°52 | 19° 3 | 6°54 | 16°36 | 26°41 | 26°35 | 20° 1 | 16°31 | T 20 | | |
| W21 | 2 0 56 | 28°21'34 | 5♏40 | 22°32 | 1°46 | 18°33 | 9° 0 | 11°59 | 19° 6 | 6°55 | 16°35 | 26°41 | 26°31 | 20° 8 | 16°29 | W21 | | |
| T 22 | 2 4 52 | 29°20'54 | 20°36 | 23° 4 | 3° 1 | 19°12 | 9°11 | 12° 6 | 19° 8 | 6°55 | 16°34 | 26°R41 | 26°28 | 20°15 | 16°28 | T 22 | | |
| F 23 | 2 8 49 | 0♎20'17 | 5♏24 | 23°32 | 4°16 | 19°51 | 9°21 | 12°13 | 19°11 | 6°56 | 16°32 | 26°41 | 26°25 | 20°21 | 16°26 | F 23 | | |
| S 24 | 2 12 45 | 1°19'41 | 19°58 | 23°53 | 5°31 | 20°30 | 9°31 | 12°21 | 19°14 | 6°57 | 16°31 | 26°41 | 26°22 | 20°28 | 16°24 | S 24 | | |
| S 25 | 2 16 42 | 2°19'08 | 4♏11 | 24° 9 | 6°46 | 21° 9 | 9°41 | 12°28 | 19°17 | 6°57 | 16°30 | 26°40 | 26°19 | 20°35 | 16°22 | S 25 | | |
| M26 | 2 20 38 | 3°18'37 | 18° 0 | 24°17 | 8° 1 | 21°48 | 9°52 | 12°35 | 19°19 | 6°58 | 16°29 | 26°39 | 26°16 | 20°41 | 16°19 | M26 | | |
| T 27 | 2 24 35 | 4°18'08 | 1♏23 | 24°R19 | 9°16 | 22°27 | 10° 2 | 12°42 | 19°22 | 6°58 | 16°28 | 26°38 | 26°12 | 20°48 | 16°17 | T 27 | | |
| W28 | 2 28 31 | 5°17'41 | 14°21 | 24°12 | 10°31 | 23° 6 | 10°12 | 12°49 | 19°25 | 6°58 | 16°27 | 26°38 | 26° 9 | 20°55 | 16°15 | W28 | | |
| T 29 | 2 32 28 | 6°17'16 | 26°57 | 23°57 | 11°46 | 23°45 | 10°21 | 12°57 | 19°28 | 6°59 | 16°26 | 26°37 | 26° 6 | 21° 2 | 16°13 | T 29 | | |
| F 30 | 2 36 25 | 7°16'54 | 9♏15 | 23°34 | 13° 1 | 24°24 | 10°31 | 13° 4 | 19°31 | 6°59 | 16°25 | 26°D37 | 26° 3 | 21° 8 | 16°11 | F 30 | | |
| S 31 | 2 40 21 | 8♎16'34 | 21♏19 | 23♎2 | 14♎16 | 25♏3 | 10♏41 | 13♎11 | 19♏34 | 6♏59 | 16♏24 | 26♏37 | 26♏0 | 21♏15 | 16♏8 | S 31 | | |

Delta T = 18m28s

ASTRODIENST EPHEMERIS for the year 2572
geocentric

NOVEMBER 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|---------|--------|-------|-------|----------|-------|-------|-------|--------|--------|-------|----------|----------|------|-----|
| S 1 | 2 44 18 | 9♐16'16 | 3♐13 | 22°R20 | 15♐31 | 25♏43 | 10♐50 | 13♐18 | 19♏37 | 7♏0 | 16°R22 | 26♏38 | 25♏56 | 21♐22 | 16°R 6 | S 1 | |
| M 2 | 2 48 14 | 10°16'00 | 15° 2 | 21♐31 | 16°46 | 26°22 | 11° 0 | 13°26 | 19°40 | 7° 0 | 16°Y21 | 26°39 | 25°53 | 21°28 | 16°II 3 | M 2 | |
| T 3 | 2 52 11 | 11°15'47 | 26°51 | 20°33 | 18° 1 | 27° 1 | 11° 9 | 13°33 | 19°43 | 7° 0 | 16°20 | 26°41 | 25°50 | 21°35 | 16° 1 | T 3 | |
| W 4 | 2 56 7 | 12°15'35 | 8♏44 | 19°28 | 19°16 | 27°40 | 11°18 | 13°40 | 19°46 | 7° 0 | 16°19 | 26°42 | 25°47 | 21°42 | 15°58 | W 4 | |
| T 5 | 3 0 4 | 13°15'26 | 20°43 | 18°17 | 20°31 | 28°20 | 11°27 | 13°47 | 19°49 | 7° 0 | 16°18 | 26°R43 | 25°44 | 21°48 | 15°56 | T 5 | |
| F 6 | 3 4 0 | 14°15'19 | 2♐52 | 17° 2 | 21°46 | 28°59 | 11°36 | 13°55 | 19°52 | 7° 1 | 16°17 | 26°43 | 25°41 | 21°55 | 15°53 | F 6 | |
| S 7 | 3 7 57 | 15°15'13 | 15°12 | 15°45 | 23° 1 | 29°38 | 11°45 | 14° 2 | 19°56 | 7° 1 | 16°16 | 26°42 | 25°37 | 22° 2 | 15°50 | S 7 | |
| S 8 | 3 11 53 | 16°15'10 | 27°45 | 14°28 | 24°16 | 0♐18 | 11°54 | 14° 9 | 19°59 | 7° 1 | 16°15 | 26°40 | 25°34 | 22° 8 | 15°48 | S 8 | |
| M 9 | 3 15 50 | 17°15'08 | 10♏31 | 13°14 | 25°31 | 0°57 | 12° 3 | 14°17 | 20° 2 | 7°R 1 | 16°14 | 26°37 | 25°31 | 22°15 | 15°45 | M 9 | |
| T 10 | 3 19 47 | 18°15'09 | 23°31 | 12° 5 | 26°46 | 1°36 | 12°11 | 14°24 | 20° 5 | 7° 1 | 16°13 | 26°34 | 25°28 | 22°22 | 15°42 | T 10 | |
| W 11 | 3 23 43 | 19°15'11 | 6♏44 | 11° 3 | 28° 2 | 2°16 | 12°19 | 14°31 | 20° 9 | 7° 1 | 16°12 | 26°30 | 25°25 | 22°28 | 15°39 | W 11 | |
| T 12 | 3 27 40 | 20°15'14 | 20°11 | 10°11 | 29°17 | 2°55 | 12°28 | 14°38 | 20°12 | 7° 1 | 16°11 | 26°27 | 25°22 | 22°35 | 15°36 | T 12 | |
| F 13 | 3 31 36 | 21°15'19 | 3♏50 | 9°28 | 0♏32 | 3°35 | 12°36 | 14°46 | 20°15 | 7° 0 | 16°10 | 26°25 | 25°18 | 22°42 | 15°33 | F 13 | |
| S 14 | 3 35 33 | 22°15'26 | 17°42 | 8°56 | 1°47 | 4°14 | 12°44 | 14°53 | 20°19 | 7° 0 | 16° 9 | 26°D24 | 25°15 | 22°48 | 15°30 | S 14 | |
| S 15 | 3 39 29 | 23°15'34 | 1♏45 | 8°37 | 3° 2 | 4°54 | 12°52 | 15° 0 | 20°22 | 7° 0 | 16° 9 | 26°24 | 25°12 | 22°55 | 15°27 | S 15 | |
| M 16 | 3 43 26 | 24°15'44 | 15°59 | 8°D28 | 4°17 | 5°33 | 12°59 | 15° 7 | 20°25 | 7° 0 | 16° 8 | 26°25 | 25° 9 | 23° 2 | 15°24 | M 16 | |
| T 17 | 3 47 23 | 25°15'54 | 0°Y22 | 8°31 | 5°32 | 6°13 | 13° 7 | 15°14 | 20°29 | 7° 0 | 16° 7 | 26°27 | 25° 6 | 23° 8 | 15°21 | T 17 | |
| W 18 | 3 51 19 | 26°16'07 | 14°50 | 8°45 | 6°47 | 6°53 | 13°15 | 15°22 | 20°32 | 6°59 | 16° 6 | 26°28 | 25° 2 | 23°15 | 15°18 | W 18 | |
| T 19 | 3 55 16 | 27°16'21 | 29°20 | 9° 9 | 8° 2 | 7°32 | 13°22 | 15°29 | 20°36 | 6°59 | 16° 5 | 26°R28 | 24°59 | 23°22 | 15°15 | T 19 | |
| F 20 | 3 59 12 | 28°16'36 | 13♏47 | 9°42 | 9°17 | 8°12 | 13°29 | 15°36 | 20°39 | 6°59 | 16° 4 | 26°27 | 24°56 | 23°28 | 15°12 | F 20 | |
| S 21 | 4 3 9 | 29°16'53 | 28° 4 | 10°23 | 10°32 | 8°51 | 13°36 | 15°43 | 20°42 | 6°58 | 16° 3 | 26°25 | 24°53 | 23°35 | 15° 9 | S 21 | |
| S 22 | 4 7 5 | 0♏17'12 | 12°II 7 | 11°12 | 11°47 | 9°31 | 13°43 | 15°50 | 20°46 | 6°58 | 16° 3 | 26°20 | 24°50 | 23°42 | 15° 6 | S 22 | |
| M 23 | 4 11 2 | 1°17'33 | 25°51 | 12° 8 | 13° 2 | 10°11 | 13°50 | 15°57 | 20°50 | 6°57 | 16° 2 | 26°15 | 24°47 | 23°48 | 15° 3 | M 23 | |
| T 24 | 4 14 58 | 2°17'55 | 9♏14 | 13° 9 | 14°18 | 10°51 | 13°56 | 16° 4 | 20°53 | 6°57 | 16° 1 | 26° 9 | 24°43 | 23°55 | 14°59 | T 24 | |
| W 25 | 4 18 55 | 3°18'19 | 22°15 | 14°15 | 15°33 | 11°30 | 14° 3 | 16°12 | 20°57 | 6°56 | 16° 0 | 26° 3 | 24°40 | 24° 2 | 14°56 | W 25 | |
| T 26 | 4 22 52 | 4°18'45 | 4♏54 | 15°26 | 16°48 | 12°10 | 14° 9 | 16°19 | 21° 0 | 6°56 | 16° 0 | 25°58 | 24°37 | 24° 8 | 14°53 | T 26 | |
| F 27 | 4 26 48 | 5°19'13 | 17°14 | 16°40 | 18° 3 | 12°50 | 14°15 | 16°26 | 21° 4 | 6°55 | 15°59 | 25°54 | 24°34 | 24°15 | 14°50 | F 27 | |
| S 28 | 4 30 45 | 6°19'42 | 29°19 | 17°57 | 19°18 | 13°30 | 14°22 | 16°33 | 21° 7 | 6°54 | 15°58 | 25°52 | 24°31 | 24°22 | 14°46 | S 28 | |
| S 29 | 4 34 41 | 7°20'13 | 11♐13 | 19°17 | 20°33 | 14°10 | 14°27 | 16°40 | 21°11 | 6°54 | 15°58 | 25°D52 | 24°28 | 24°28 | 14°43 | S 29 | |
| M 30 | 4 38 38 | 8♏20'46 | 23°II 3 | 20♐40 | 21♏48 | 14♐50 | 14°II 33 | 16♐47 | 21♏15 | 6♏53 | 15°Y57 | 25♏53 | 24♏24 | 24°II 35 | 14°II 40 | M 30 | |

Delta T = 18m28s

DECEMBER 2572

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|---------|-------|-------|-------|--------|---------|-------|-------|--------|--------|-------|----------|----------|------|
| T 1 | 4 42 34 | 9♏21'21 | 4♏52 | 22♐4 | 23♏3 | 15♐30 | 14♐39 | 16♐53 | 21♏18 | 6°R52 | 15°R56 | 25♏55 | 24♏21 | 24°II 42 | 14°R36 | T 1 |
| W 2 | 4 46 31 | 10°21'57 | 16°46 | 23°30 | 24°18 | 16°10 | 14°44 | 17° 0 | 21°22 | 6♏52 | 15°Y56 | 25°56 | 24°18 | 24°48 | 14°II 33 | W 2 |
| T 3 | 4 50 27 | 11°22'35 | 28°50 | 24°57 | 25°33 | 16°50 | 14°49 | 17° 7 | 21°25 | 6°51 | 15°55 | 25°R56 | 24°15 | 24°55 | 14°30 | T 3 |
| F 4 | 4 54 24 | 12°23'15 | 11♐7 | 26°25 | 26°48 | 17°30 | 14°54 | 17°14 | 21°29 | 6°50 | 15°54 | 25°55 | 24°12 | 25° 2 | 14°26 | F 4 |
| S 5 | 4 58 21 | 13°23'56 | 23°41 | 27°55 | 28° 4 | 18°10 | 14°59 | 17°21 | 21°33 | 6°49 | 15°54 | 25°51 | 24° 8 | 25° 8 | 14°23 | S 5 |
| S 6 | 5 2 17 | 14°24'38 | 6♏32 | 29°25 | 29°19 | 18°50 | 15° 4 | 17°28 | 21°36 | 6°48 | 15°53 | 25°46 | 24° 5 | 25°15 | 14°20 | S 6 |
| M 7 | 5 6 14 | 15°25'27 | 19°40 | 0♏55 | 0♏34 | 19°30 | 15° 9 | 17°34 | 21°40 | 6°47 | 15°53 | 25°38 | 24° 2 | 25°21 | 14°16 | M 7 |
| T 8 | 5 10 10 | 16°26'07 | 3♏6 | 2°27 | 1°49 | 20°10 | 15°13 | 17°41 | 21°44 | 6°46 | 15°52 | 25°29 | 23°59 | 25°28 | 14°13 | T 8 |
| W 9 | 5 14 7 | 17°26'54 | 16°45 | 3°58 | 3° 4 | 20°50 | 15°17 | 17°48 | 21°47 | 6°45 | 15°52 | 25°20 | 23°56 | 25°35 | 14°10 | W 9 |
| T 10 | 5 18 3 | 18°27'41 | 0♏35 | 5°30 | 4°19 | 21°30 | 15°21 | 17°54 | 21°51 | 6°45 | 15°51 | 25°11 | 23°53 | 25°41 | 14° 6 | T 10 |
| F 11 | 5 22 0 | 19°28'29 | 14°33 | 7° 2 | 5°34 | 22°10 | 15°25 | 18° 1 | 21°55 | 6°44 | 15°51 | 25° 4 | 23°49 | 25°48 | 14° 3 | F 11 |
| S 12 | 5 25 56 | 20°29'19 | 28°36 | 8°35 | 6°49 | 22°51 | 15°29 | 18° 7 | 21°58 | 6°42 | 15°51 | 25° 0 | 23°46 | 25°55 | 14° 0 | S 12 |
| S 13 | 5 29 53 | 21°30'09 | 12♏42 | 10° 8 | 8° 4 | 23°31 | 15°32 | 18°14 | 22° 2 | 6°41 | 15°50 | 24°58 | 23°43 | 26° 1 | 13°56 | S 13 |
| M 14 | 5 33 50 | 22°30'59 | 26°48 | 11°40 | 9°19 | 24°11 | 15°36 | 18°20 | 22° 6 | 6°40 | 15°50 | 24°D58 | 23°40 | 26° 8 | 13°53 | M 14 |
| T 15 | 5 37 46 | 23°31'51 | 10°Y54 | 13°13 | 10°35 | 24°51 | 15°39 | 18°27 | 22° 9 | 6°39 | 15°50 | 24°58 | 23°37 | 26°15 | 13°50 | T 15 |
| W 16 | 5 41 43 | 24°32'43 | 24°59 | 14°46 | 11°50 | 25°32 | 15°42 | 18°33 | 22°13 | 6°38 | 15°49 | 24°R59 | 23°34 | 26°21 | 13°47 | W 16 |
| T 17 | 5 45 39 | 25°33'36 | 9♏8 | 16°19 | 13° 5 | 26°12 | 15°45 | 18°40 | 22°17 | 6°37 | 15°49 | 24°58 | 23°30 | 26°28 | 13°43 | T 17 |
| F 18 | 5 49 36 | 26°34'30 | 23° 0 | 17°52 | 14°20 | 26°52 | 15°47 | 18°46 | 22°21 | 6°36 | 15°49 | 24°55 | 23°27 | 26°35 | 13°40 | F 18 |
| S 19 | 5 53 32 | 27°35'24 | 6°II 52 | 19°26 | 15°35 | 27°33 | 15°50 | 18°52 | 22°24 | 6°34 | 15°48 | 24°49 | 23°24 | 26°41 | 13°37 | S 19 |
| S 20 | 5 57 29 | 28°36'19 | 20°33 | 20°59 | 16°50 | 28°13 | 15°52 | 18°58 | 22°28 | 6°33 | 15°48 | 24°40 | 23°21 | 26°48 | 13°34 | S 20 |
| M 21 | 6 1 25 | 29°37'16 | 4♏1 | 22°32 | 18° 5 | 28°54 | 15°54 | 19° 4 | 22°32 | 6°32 | 15°48 | 24°29 | 23°18 | 26°55 | 13°30 | M 21 |
| T 22 | 6 5 22 | 0♏38'13 | 17°12 | 24° 6 | 19°20 | 29°34 | 15°56 | 19°10 | 22°35 | 6°31 | 15°48 | 24°17 | 23°14 | 27° 1 | 13°27 | T 22 |
| W 23 | 6 9 19 | 1°39'11 | 0♏6 | 25°40 | 20°35 | 0♏15 | 15°58 | 19°16 | 22°39 | 6°29 | 15°48 | 24° 5 | 23°11 | 27° 8 | 13°24 | W 23 |
| T 24 | 6 13 15 | 2°40'09 | 12°42 | 27°13 | 21°50 | 0°55 | 15°59 | 19°22 | 22°43 | 6°28 | 15°47 | 23°55 | 23° 8 | 27°15 | 13°21 | T 24 |
| F 25 | 6 17 12 | 3°41'09 | 25° 1 | 28°47 | 23° 5 | 1°36 | 16° 0 | 19°28 | 22°46 | 6°27 | 15°47 | 23°46 | 23° 5 | 27°21 | 13°18 | F 25 |
| S 26 | 6 21 8 | 4°42'09 | 7♐6 | 0♏21 | 24°20 | 2°16 | 16° 2 | 19°34 | 22°50 | 6°25 | 15°47 | 23°40 | 23° 2 | 27°28 | 13°15 | S 26 |
| S 27 | 6 25 5 | 5°43'11 | 19° 0 | 1°55 | 25°35 | 2°57 | 16° 3 | 19°40 | 22°53 | 6°24 | 15°47 | 23°36 | 22°59 | 27°35 | 13°12 | S 27 |
| M 28 | 6 29 1 | 6°44'13 | 0♏49 | 3°29 | 26°50 | 3°38 | 16° 3 | 19°46 | 22°57 | 6°23 | 15°47 | 23°35 | 22°55 | 27°41 | 13° 9 | M 28 |
| T 29 | 6 32 58 | 7°45'16 | 12°37 | 5° 3 | 28° 5 | 4°18 | 16° 4 | 19°51 | 23° 1 | 6°21 | 15°47 | 23°D34 | 22°52 | 27°48 | 13° 6 | T 29 |
| W 30 | 6 36 54 | 8°46'20 | 24°31 | 6°38 | 29°20 | 4°59 | 16° 4 | 19°57 | 23° 4 | 6°20 | 15°D47 | 23°R35 | 22°49 | 27°55 | 13° 3 | W 30 |
| T 31 | 6 40 51 | 9♏47'25 | 6♐36 | 8♏13 | 0♏35 | 5♏40 | 16°R 4 | 20°II 2 | 23♏8 | 6♏18 | 15°Y47 | 23♏34 | 22♏46 | 28°II 1 | 13°II 0 | T 31 |

Delta T = 18m29s

ASTRODIENST EPHEMERIS for the year 2573
geocentric

JANUARY 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♄ | ♃ | ♅ | ♁ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|-------|--------|---|---|------|
| F 1 | 6 44 48 | 10♌48'30 | 18♍56 | 9♌48 | 1♏50 | 6♌21 | 16°R 4 | 20♍ 8 | 23♌11 | 6°R17 | 15°V47 | 23°R31 | 22♌43 | 28♍ 8 | 12°R57 | | | F 1 |
| S 2 | 6 48 44 | 11°49'36 | 1♌36 | 11°23 | 3° 5 | 7° 2 | 16♍ 4 | 20°13 | 23°15 | 6♌15 | 15°47 | 23♌26 | 22°40 | 28°15 | 12♍54 | | | S 2 |
| S 3 | 6 52 41 | 12°50'43 | 14°39 | 12°58 | 4°20 | 7°42 | 16° 4 | 20°19 | 23°18 | 6°14 | 15°47 | 23°18 | 22°36 | 28°21 | 12°51 | | | S 3 |
| M 4 | 6 56 37 | 13°51'51 | 28° 6 | 14°34 | 5°35 | 8°23 | 16° 3 | 20°24 | 23°22 | 6°12 | 15°47 | 23° 8 | 22°33 | 28°28 | 12°49 | | | M 4 |
| T 5 | 7 0 34 | 14°52'58 | 11♌54 | 16°10 | 6°50 | 9° 4 | 16° 2 | 20°29 | 23°25 | 6°11 | 15°48 | 22°55 | 22°30 | 28°35 | 12°46 | | | T 5 |
| W 6 | 7 4 30 | 15°54'07 | 26° 0 | 17°46 | 8° 5 | 9°45 | 16° 1 | 20°34 | 23°29 | 6° 9 | 15°48 | 22°42 | 22°27 | 28°41 | 12°43 | | | W 6 |
| T 7 | 7 8 27 | 16°55'15 | 10♌19 | 19°22 | 9°20 | 10°26 | 16° 0 | 20°39 | 23°32 | 6° 7 | 15°48 | 22°30 | 22°24 | 28°48 | 12°41 | | | T 7 |
| F 8 | 7 12 23 | 17°56'23 | 24°44 | 20°59 | 10°35 | 11° 7 | 15°58 | 20°45 | 23°36 | 6° 6 | 15°48 | 22°20 | 22°20 | 28°55 | 12°38 | | | F 8 |
| S 9 | 7 16 20 | 18°57'31 | 9♌11 | 22°36 | 11°49 | 11°48 | 15°57 | 20°49 | 23°39 | 6° 4 | 15°48 | 22°13 | 22°17 | 29° 1 | 12°36 | | | S 9 |
| S 10 | 7 20 17 | 19°58'39 | 23°32 | 24°14 | 13° 4 | 12°29 | 15°55 | 20°54 | 23°43 | 6° 3 | 15°49 | 22° 9 | 22°14 | 29° 8 | 12°33 | | | S 10 |
| M11 | 7 24 13 | 20°59'47 | 7°V46 | 25°51 | 14°19 | 13°10 | 15°53 | 20°59 | 23°46 | 6° 1 | 15°49 | 22° 8 | 22°11 | 29°15 | 12°31 | | | M11 |
| T 12 | 7 28 10 | 22° 0'55 | 21°50 | 27°29 | 15°34 | 13°51 | 15°51 | 21° 4 | 23°49 | 5°59 | 15°49 | 22° 7 | 22° 8 | 29°21 | 12°28 | | | T 12 |
| W13 | 7 32 6 | 23° 2'02 | 5♌45 | 29° 7 | 16°49 | 14°32 | 15°48 | 21° 8 | 23°53 | 5°58 | 15°50 | 22° 7 | 22° 5 | 29°28 | 12°26 | | | W13 |
| T 14 | 7 36 3 | 24° 3'10 | 19°29 | 0♌46 | 18° 4 | 15°13 | 15°46 | 21°13 | 23°56 | 5°56 | 15°50 | 22° 5 | 22° 1 | 29°35 | 12°24 | | | T 14 |
| F 15 | 7 39 59 | 25° 4'16 | 3♍ 5 | 2°25 | 19°18 | 15°54 | 15°43 | 21°17 | 23°59 | 5°55 | 15°50 | 22° 1 | 21°58 | 29°41 | 12°22 | | | F 15 |
| S 16 | 7 43 56 | 26° 5'23 | 16°31 | 4° 4 | 20°33 | 16°35 | 15°40 | 21°22 | 24° 3 | 5°53 | 15°51 | 21°54 | 21°55 | 29°48 | 12°19 | | | S 16 |
| S 17 | 7 47 52 | 27° 6'29 | 29°46 | 5°43 | 21°48 | 17°17 | 15°37 | 21°26 | 24° 6 | 5°51 | 15°51 | 21°44 | 21°52 | 29°55 | 12°17 | | | S 17 |
| M18 | 7 51 49 | 28° 7'35 | 12♌51 | 7°23 | 23° 2 | 17°58 | 15°34 | 21°30 | 24° 9 | 5°50 | 15°52 | 21°32 | 21°49 | 0♌ 1 | 12°15 | | | M18 |
| T 19 | 7 55 46 | 29° 8'41 | 25°43 | 9° 2 | 24°17 | 18°39 | 15°30 | 21°35 | 24°12 | 5°48 | 15°52 | 21°18 | 21°46 | 0° 8 | 12°13 | | | T 19 |
| W20 | 7 59 42 | 0♌ 9'47 | 8♌23 | 10°42 | 25°32 | 19°20 | 15°27 | 21°39 | 24°16 | 5°46 | 15°52 | 21° 4 | 21°42 | 0°15 | 12°11 | | | W20 |
| T 21 | 8 3 39 | 1°10'52 | 20°48 | 12°22 | 26°46 | 20° 2 | 15°23 | 21°43 | 24°19 | 5°44 | 15°53 | 20°51 | 21°39 | 0°21 | 12° 9 | | | T 21 |
| F 22 | 8 7 35 | 2°11'57 | 3♍ 1 | 14° 1 | 28° 1 | 20°43 | 15°19 | 21°47 | 24°22 | 5°43 | 15°53 | 20°41 | 21°36 | 0°28 | 12° 7 | | | F 22 |
| S 23 | 8 11 32 | 3°13'01 | 15° 2 | 15°40 | 29°16 | 21°24 | 15°14 | 21°50 | 24°25 | 5°41 | 15°54 | 20°33 | 21°33 | 0°34 | 12° 6 | | | S 23 |
| S 24 | 8 15 28 | 4°14'06 | 26°54 | 17°19 | 0♌30 | 22° 6 | 15°10 | 21°54 | 24°28 | 5°39 | 15°55 | 20°28 | 21°30 | 0°41 | 12° 4 | | | S 24 |
| M25 | 8 19 25 | 5°15'10 | 8♌42 | 18°58 | 1°45 | 22°47 | 15° 6 | 21°58 | 24°31 | 5°38 | 15°55 | 20°25 | 21°26 | 0°48 | 12° 2 | | | M25 |
| T 26 | 8 23 21 | 6°16'14 | 20°29 | 20°35 | 2°59 | 23°29 | 15° 1 | 22° 1 | 24°34 | 5°36 | 15°56 | 20°D25 | 21°23 | 0°54 | 12° 1 | | | T 26 |
| W27 | 8 27 18 | 7°17'18 | 2♍21 | 22°12 | 4°14 | 24°10 | 14°56 | 22° 5 | 24°37 | 5°34 | 15°56 | 20°R25 | 21°20 | 1° 1 | 11°59 | | | W27 |
| T 28 | 8 31 15 | 8°18'22 | 14°24 | 23°47 | 5°28 | 24°52 | 14°51 | 22° 8 | 24°40 | 5°33 | 15°57 | 20°25 | 21°17 | 1° 8 | 11°58 | | | T 28 |
| F 29 | 8 35 11 | 9°19'25 | 26°42 | 25°21 | 6°43 | 25°33 | 14°46 | 22°11 | 24°43 | 5°31 | 15°58 | 20°23 | 21°14 | 1°14 | 11°56 | | | F 29 |
| S 30 | 8 39 8 | 10°20'28 | 9♌22 | 26°53 | 7°57 | 26°15 | 14°40 | 22°15 | 24°46 | 5°29 | 15°59 | 20°20 | 21°11 | 1°21 | 11°55 | | | S 30 |
| S 31 | 8 43 4 | 11°21'31 | 22♌27 | 28°22 | 9♌11 | 26♌56 | 14♍35 | 22♍18 | 24♌48 | 5♌28 | 15°V59 | 20♌13 | 21♌ 7 | 1♌28 | 11♍54 | | | S 31 |

Delta T = 18m29s

FEBRUARY 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♄ | ♃ | ♅ | ♁ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|------|--------|---|---|------|
| M 1 | 8 47 1 | 12°22'33 | 5♌59 | 29°48 | 10♌26 | 27♌38 | 14°R29 | 22♍21 | 24♌51 | 5°R26 | 16°V 0 | 20°R 5 | 21♌ 4 | 1♌34 | 11°R53 | | | M 1 |
| T 2 | 8 50 57 | 13°23'35 | 19°58 | 1♌11 | 11°40 | 28°20 | 14♍24 | 22°24 | 24°54 | 5♌24 | 16° 1 | 19♌54 | 21° 1 | 1°41 | 11♍51 | | | T 2 |
| W 3 | 8 54 54 | 14°24'36 | 4♌21 | 2°29 | 12°54 | 29° 1 | 14°18 | 22°26 | 24°57 | 5°23 | 16° 2 | 19°43 | 20°58 | 1°48 | 11°50 | | | W 3 |
| T 4 | 8 58 51 | 15°25'37 | 19° 2 | 3°43 | 14° 8 | 29°43 | 14°12 | 22°29 | 24°59 | 5°21 | 16° 2 | 19°33 | 20°55 | 1°54 | 11°49 | | | T 4 |
| F 5 | 9 2 47 | 16°26'36 | 3♌53 | 4°52 | 15°23 | 0♌25 | 14° 5 | 22°32 | 25° 2 | 5°19 | 16° 3 | 19°24 | 20°52 | 2° 1 | 11°48 | | | F 5 |
| S 6 | 9 6 44 | 17°27'35 | 18°46 | 5°53 | 16°37 | 1° 6 | 13°59 | 22°34 | 25° 5 | 5°18 | 16° 4 | 19°18 | 20°48 | 2° 8 | 11°48 | | | S 6 |
| S 7 | 9 10 40 | 18°28'32 | 3°V32 | 6°48 | 17°51 | 1°48 | 13°53 | 22°37 | 25° 7 | 5°16 | 16° 5 | 19°15 | 20°45 | 2°14 | 11°47 | | | S 7 |
| M 8 | 9 14 37 | 19°29'29 | 18° 5 | 7°35 | 19° 5 | 2°30 | 13°46 | 22°39 | 25°10 | 5°14 | 16° 6 | 19°D14 | 20°42 | 2°21 | 11°46 | | | M 8 |
| T 9 | 9 18 33 | 20°30'24 | 2♌22 | 8°13 | 20°19 | 3°12 | 13°39 | 22°41 | 25°12 | 5°13 | 16° 7 | 19°14 | 20°39 | 2°28 | 11°45 | | | T 9 |
| W10 | 9 22 30 | 21°31'18 | 16°22 | 8°41 | 21°33 | 3°54 | 13°32 | 22°43 | 25°15 | 5°11 | 16° 8 | 19°R15 | 20°36 | 2°34 | 11°45 | | | W10 |
| T 11 | 9 26 26 | 22°32'11 | 0♍ 3 | 8°59 | 22°47 | 4°36 | 13°26 | 22°45 | 25°17 | 5° 9 | 16° 8 | 19°15 | 20°32 | 2°41 | 11°44 | | | T 11 |
| F 12 | 9 30 23 | 23°33'02 | 13°28 | 9°R 7 | 24° 1 | 5°17 | 13°19 | 22°47 | 25°19 | 5° 8 | 16° 9 | 19°13 | 20°29 | 2°48 | 11°44 | | | F 12 |
| S 13 | 9 34 19 | 24°33'52 | 26°38 | 9° 3 | 25°15 | 5°59 | 13°11 | 22°49 | 25°22 | 5° 6 | 16°10 | 19° 8 | 20°26 | 2°54 | 11°43 | | | S 13 |
| S 14 | 9 38 16 | 25°34'41 | 9♌34 | 8°48 | 26°28 | 6°41 | 13° 4 | 22°51 | 25°24 | 5° 5 | 16°11 | 19° 2 | 20°23 | 3° 1 | 11°43 | | | S 14 |
| M15 | 9 42 13 | 26°35'28 | 22°18 | 8°23 | 27°42 | 7°23 | 12°57 | 22°52 | 25°26 | 5° 3 | 16°12 | 18°53 | 20°20 | 3° 7 | 11°43 | | | M15 |
| T 16 | 9 46 9 | 27°36'14 | 4♌50 | 7°47 | 28°56 | 8° 5 | 12°50 | 22°54 | 25°28 | 5° 2 | 16°13 | 18°43 | 20°17 | 3°14 | 11°43 | | | T 16 |
| W17 | 9 50 6 | 28°36'58 | 17°12 | 7° 2 | 0°V 9 | 8°47 | 12°42 | 22°55 | 25°31 | 5° 0 | 16°14 | 18°33 | 20°13 | 3°21 | 11°43 | | | W17 |
| T 18 | 9 54 2 | 29°37'42 | 29°24 | 6° 8 | 1°23 | 9°29 | 12°35 | 22°57 | 25°33 | 4°58 | 16°16 | 18°24 | 20°10 | 3°27 | 11°D43 | | | T 18 |
| F 19 | 9 57 59 | 0♌38'24 | 11♍27 | 5° 7 | 2°37 | 10°11 | 12°27 | 22°58 | 25°35 | 4°57 | 16°17 | 18°17 | 20° 7 | 3°34 | 11°43 | | | F 19 |
| S 20 | 10 1 55 | 1°39'05 | 23°22 | 4° 2 | 3°50 | 10°53 | 12°20 | 22°59 | 25°37 | 4°56 | 16°18 | 18°11 | 20° 4 | 3°41 | 11°43 | | | S 20 |
| S 21 | 10 5 52 | 2°39'44 | 5♌12 | 2°53 | 5° 3 | 11°36 | 12°12 | 23° 0 | 25°39 | 4°54 | 16°19 | 18° 8 | 20° 1 | 3°47 | 11°43 | | | S 21 |
| M22 | 10 9 48 | 3°40'23 | 16°58 | 1°43 | 6°17 | 12°18 | 12° 4 | 23° 1 | 25°41 | 4°53 | 16°20 | 18°D 7 | 19°57 | 3°54 | 11°43 | | | M22 |
| T 23 | 10 13 45 | 4°41'00 | 28°46 | 0°33 | 7°30 | 13° 0 | 11°56 | 23° 2 | 25°43 | 4°51 | 16°21 | 18° 7 | 19°54 | 4° 1 | 11°44 | | | T 23 |
| W24 | 10 17 42 | 5°41'36 | 10♍38 | 29°26 | 8°43 | 13°42 | 11°49 | 23° 2 | 25°44 | 4°50 | 16°22 | 18° 9 | 19°51 | 4° 7 | 11°44 | | | W24 |
| T 25 | 10 21 38 | 6°42'11 | 22°39 | 28°22 | 9°56 | 14°24 | 11°41 | 23° 3 | 25°46 | 4°48 | 16°23 | 18°10 | 19°48 | 4°14 | 11°44 | | | T 25 |
| F 26 | 10 25 35 | 7°42'45 | 4♌55 | 27°24 | 11°10 | 15° 7 | 11°33 | 23° 4 | 25°48 | 4°47 | 16°25 | 18°R11 | 19°45 | 4°21 | 11°45 | | | F 26 |
| S 27 | 10 29 31 | 8°43'17 | 17°31 | 26°32 | 12°23 | 15°49 | 11°25 | 23° 4 | 25°50 | 4°46 | 16°26 | 18°11 | 19°42 | 4°2 | | | | |

ASTRODIENST EPHEMERIS for the year 2573
geocentric

MARCH 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|--------|--------|-------|-------|--------|-------|------|-------|------|---|---|---|---|---|---|-----|
| M 1 | 10 37 24 | 10♋44'19 | 13♌57 | 25°R 8 | 14♍49 | 17♎14 | 11°R 9 | 23♏4 | 25♐53 | 4°R43 | 16♑28 | 18°R 5 | 19♒35 | 4♓41 | 11♈47 | M 1 | | | | | | | |
| T 2 | 10 41 21 | 11°44'48 | 27°53 | 24♌38 | 16° 1 | 17°56 | 11♎1 | 23°R 4 | 25°54 | 4♏42 | 16°29 | 18♑0 | 19°32 | 4°47 | 11°48 | T 2 | | | | | | | |
| W 3 | 10 45 17 | 12°45'15 | 12♌16 | 24°14 | 17°14 | 18°38 | 10°53 | 23° 4 | 25°56 | 4°40 | 16°31 | 17°55 | 19°29 | 4°54 | 11°49 | W 3 | | | | | | | |
| T 4 | 10 49 14 | 13°45'41 | 27° 3 | 23°59 | 18°27 | 19°21 | 10°45 | 23° 4 | 25°57 | 4°39 | 16°32 | 17°49 | 19°26 | 5° 1 | 11°50 | T 4 | | | | | | | |
| F 5 | 10 53 11 | 14°46'06 | 12♌6 | 23°50 | 19°40 | 20° 3 | 10°38 | 23° 4 | 25°59 | 4°38 | 16°33 | 17°45 | 19°23 | 5° 7 | 11°51 | F 5 | | | | | | | |
| S 6 | 10 57 7 | 15°46'29 | 27°16 | 23°D49 | 20°52 | 20°46 | 10°30 | 23° 4 | 26° 0 | 4°37 | 16°34 | 17°42 | 19°19 | 5°14 | 11°52 | S 6 | | | | | | | |
| S 7 | 11 1 4 | 16°46'50 | 12♍23 | 23°54 | 22° 5 | 21°28 | 10°22 | 23° 3 | 26° 1 | 4°36 | 16°36 | 17°D41 | 19°16 | 5°20 | 11°53 | S 7 | | | | | | | |
| M 8 | 11 5 0 | 17°47'09 | 27°18 | 24° 5 | 23°17 | 22°11 | 10°14 | 23° 3 | 26° 2 | 4°34 | 16°37 | 17°41 | 19°13 | 5°27 | 11°54 | M 8 | | | | | | | |
| T 9 | 11 8 57 | 18°47'27 | 11♌56 | 24°22 | 24°29 | 22°53 | 10° 6 | 23° 2 | 26° 4 | 4°33 | 16°38 | 17°42 | 19°10 | 5°34 | 11°55 | T 9 | | | | | | | |
| W10 | 11 12 53 | 19°47'42 | 26°10 | 24°45 | 25°42 | 23°36 | 9°59 | 23° 1 | 26° 5 | 4°32 | 16°40 | 17°44 | 19° 7 | 5°40 | 11°57 | W10 | | | | | | | |
| T 11 | 11 16 50 | 20°47'56 | 10♈1 | 25°13 | 26°54 | 24°18 | 9°51 | 23° 0 | 26° 6 | 4°31 | 16°41 | 17°45 | 19° 3 | 5°47 | 11°58 | T 11 | | | | | | | |
| F 12 | 11 20 46 | 21°48'07 | 23°28 | 25°46 | 28° 6 | 25° 1 | 9°43 | 22°59 | 26° 7 | 4°30 | 16°42 | 17°R45 | 19° 0 | 5°54 | 12° 0 | F 12 | | | | | | | |
| S 13 | 11 24 43 | 22°48'17 | 6♌34 | 26°23 | 29°18 | 25°43 | 9°36 | 22°58 | 26° 8 | 4°29 | 16°44 | 17°44 | 18°57 | 6° 0 | 12° 1 | S 13 | | | | | | | |
| S 14 | 11 28 40 | 23°48'24 | 19°22 | 27° 4 | 0♃30 | 26°26 | 9°28 | 22°57 | 26° 9 | 4°28 | 16°45 | 17°43 | 18°54 | 6° 7 | 12° 3 | S 14 | | | | | | | |
| M15 | 11 32 36 | 24°48'29 | 1♌53 | 27°49 | 1°42 | 27° 8 | 9°21 | 22°56 | 26°10 | 4°27 | 16°46 | 17°40 | 18°51 | 6°14 | 12° 4 | M15 | | | | | | | |
| T 16 | 11 36 33 | 25°48'32 | 14°11 | 28°37 | 2°54 | 27°51 | 9°14 | 22°54 | 26°10 | 4°26 | 16°48 | 17°36 | 18°48 | 6°20 | 12° 6 | T 16 | | | | | | | |
| W17 | 11 40 29 | 26°48'34 | 26°19 | 29°29 | 4° 5 | 28°34 | 9° 6 | 22°53 | 26°11 | 4°25 | 16°49 | 17°33 | 18°44 | 6°27 | 12° 8 | W17 | | | | | | | |
| T 18 | 11 44 26 | 27°48'33 | 8♈19 | 0♃24 | 5°17 | 29°16 | 8°59 | 22°51 | 26°12 | 4°24 | 16°51 | 17°29 | 18°41 | 6°34 | 12°10 | T 18 | | | | | | | |
| F 19 | 11 48 22 | 28°48'30 | 20°13 | 1°22 | 6°28 | 29°59 | 8°52 | 22°50 | 26°13 | 4°24 | 16°52 | 17°27 | 18°38 | 6°40 | 12°12 | F 19 | | | | | | | |
| S 20 | 11 52 19 | 29°48'25 | 2♌3 | 2°23 | 7°40 | 0♃42 | 8°45 | 22°48 | 26°13 | 4°23 | 16°53 | 17°25 | 18°35 | 6°47 | 12°14 | S 20 | | | | | | | |
| S 21 | 11 56 15 | 0♍48'19 | 13°51 | 3°26 | 8°51 | 1°25 | 8°38 | 22°46 | 26°14 | 4°22 | 16°55 | 17°D24 | 18°32 | 6°54 | 12°16 | S 21 | | | | | | | |
| M22 | 12 0 12 | 1°48'10 | 25°39 | 4°32 | 10° 2 | 2° 7 | 8°31 | 22°44 | 26°14 | 4°21 | 16°56 | 17°24 | 18°28 | 7° 0 | 12°18 | M22 | | | | | | | |
| T 23 | 12 4 8 | 2°48'00 | 7♈29 | 5°39 | 11°13 | 2°50 | 8°25 | 22°42 | 26°15 | 4°20 | 16°58 | 17°25 | 18°25 | 7° 7 | 12°20 | T 23 | | | | | | | |
| W24 | 12 8 5 | 3°47'48 | 19°26 | 6°49 | 12°24 | 3°33 | 8°18 | 22°40 | 26°15 | 4°20 | 16°59 | 17°26 | 18°22 | 7°13 | 12°22 | W24 | | | | | | | |
| T 25 | 12 12 2 | 4°47'34 | 1♌31 | 8° 2 | 13°35 | 4°16 | 8°12 | 22°38 | 26°15 | 4°19 | 17° 1 | 17°28 | 18°19 | 7°20 | 12°25 | T 25 | | | | | | | |
| F 26 | 12 15 58 | 5°47'19 | 13°50 | 9°16 | 14°46 | 4°59 | 8° 5 | 22°35 | 26°16 | 4°18 | 17° 2 | 17°29 | 18°16 | 7°27 | 12°27 | F 26 | | | | | | | |
| S 27 | 12 19 55 | 6°47'02 | 26°24 | 10°32 | 15°56 | 5°42 | 7°59 | 22°33 | 26°16 | 4°18 | 17° 3 | 17°29 | 18°13 | 7°33 | 12°30 | S 27 | | | | | | | |
| S 28 | 12 23 51 | 7°46'43 | 9♌30 | 11°49 | 17° 7 | 6°24 | 7°53 | 22°31 | 26°16 | 4°17 | 17° 5 | 17°R30 | 18° 9 | 7°40 | 12°32 | S 28 | | | | | | | |
| M29 | 12 27 48 | 8°46'23 | 22°39 | 13° 9 | 18°17 | 7° 7 | 7°47 | 22°28 | 26°16 | 4°17 | 17° 6 | 17°29 | 18° 6 | 7°47 | 12°35 | M29 | | | | | | | |
| T 30 | 12 31 44 | 9°46'01 | 6♌24 | 14°30 | 19°27 | 7°50 | 7°42 | 22°25 | 26°16 | 4°16 | 17° 8 | 17°29 | 18° 3 | 7°53 | 12°37 | T 30 | | | | | | | |
| W31 | 12 35 41 | 10°45'37 | 20♌36 | 15♌53 | 20♌37 | 8♌33 | 7♈36 | 22♈23 | 26°R16 | 4♏16 | 17°9 | 17°♌28 | 18♌0 | 8♌0 | 12♈40 | W31 | | | | | | | |

Delta T = 18m30s

APRIL 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|-----|
| T 1 | 12 39 37 | 11°45'11 | 5♌12 | 17♌17 | 21♌48 | 9♌16 | 7°R30 | 22°R20 | 26°R16 | 4°R15 | 17°9 | 17°R27 | 17♌57 | 8♌7 | 12♈42 | T 1 | | | | | | | |
| F 2 | 12 43 34 | 12°44'44 | 20° 8 | 18°43 | 22°57 | 9°59 | 7♈25 | 22♈17 | 26♈16 | 4♏15 | 17°12 | 17♌27 | 17°54 | 8°13 | 12°45 | F 2 | | | | | | | |
| S 3 | 12 47 31 | 13°44'14 | 5♍18 | 20°10 | 24° 7 | 10°42 | 7°20 | 22°14 | 26°16 | 4°14 | 17°14 | 17°26 | 17°50 | 8°20 | 12°48 | S 3 | | | | | | | |
| S 4 | 12 51 27 | 14°43'43 | 20°30 | 21°39 | 25°17 | 11°25 | 7°15 | 22°11 | 26°16 | 4°14 | 17°15 | 17°D26 | 17°47 | 8°27 | 12°51 | S 4 | | | | | | | |
| M 5 | 12 55 24 | 15°43'10 | 5♌37 | 23° 9 | 26°26 | 12° 8 | 7°10 | 22° 8 | 26°16 | 4°14 | 17°17 | 17°27 | 17°44 | 8°33 | 12°54 | M 5 | | | | | | | |
| T 6 | 12 59 20 | 16°42'35 | 20°29 | 24°41 | 27°36 | 12°51 | 7° 5 | 22° 4 | 26°15 | 4°13 | 17°18 | 17°27 | 17°41 | 8°40 | 12°57 | T 6 | | | | | | | |
| W 7 | 13 3 17 | 17°41'57 | 4♈59 | 26°14 | 28°45 | 13°34 | 7° 0 | 22° 1 | 26°15 | 4°13 | 17°19 | 17°R27 | 17°38 | 8°46 | 13° 0 | W 7 | | | | | | | |
| T 8 | 13 7 13 | 18°41'17 | 19° 3 | 27°49 | 29°54 | 14°17 | 6°56 | 21°58 | 26°14 | 4°13 | 17°21 | 17°27 | 17°34 | 8°53 | 13° 3 | T 8 | | | | | | | |
| F 9 | 13 11 10 | 19°40'35 | 2♌41 | 29°25 | 1♈3 | 15° 0 | 6°52 | 21°54 | 26°14 | 4°13 | 17°22 | 17°26 | 17°31 | 9° 0 | 13° 6 | F 9 | | | | | | | |
| S 10 | 13 15 6 | 20°39'51 | 15°52 | 1°9 | 2°12 | 15°43 | 6°48 | 21°51 | 26°14 | 4°13 | 17°24 | 17°D26 | 17°28 | 9° 6 | 13° 9 | S 10 | | | | | | | |
| S 11 | 13 19 3 | 21°39'04 | 28°40 | 2°41 | 3°21 | 16°26 | 6°44 | 21°47 | 26°13 | 4°12 | 17°25 | 17°26 | 17°25 | 9°13 | 13°12 | S 11 | | | | | | | |
| M12 | 13 23 0 | 22°38'15 | 11♌8 | 4°21 | 4°29 | 17° 9 | 6°40 | 21°44 | 26°12 | 4°12 | 17°27 | 17°27 | 17°22 | 9°20 | 13°16 | M12 | | | | | | | |
| T 13 | 13 26 56 | 23°37'24 | 23°20 | 6° 3 | 5°38 | 17°52 | 6°37 | 21°40 | 26°12 | 4°12 | 17°28 | 17°27 | 17°19 | 9°26 | 13°19 | T 13 | | | | | | | |
| W14 | 13 30 53 | 24°36'30 | 5♈21 | 7°46 | 6°46 | 18°36 | 6°33 | 21°36 | 26°11 | 4°D12 | 17°30 | 17°28 | 17°15 | 9°33 | 13°22 | W14 | | | | | | | |
| T 15 | 13 34 49 | 25°35'35 | 17°13 | 9°31 | 7°54 | 19°19 | 6°30 | 21°32 | 26°10 | 4°12 | 17°31 | 17°29 | 17°12 | 9°40 | 13°26 | T 15 | | | | | | | |
| F 16 | 13 38 46 | 26°34'37 | 29° 2 | 11°17 | 9° 2 | 20° 2 | 6°27 | 21°29 | 26° 9 | 4°12 | 17°33 | 17°29 | 17° 9 | 9°46 | 13°29 | F 16 | | | | | | | |
| S 17 | 13 42 42 | 27°33'37 | 10♌49 | 13° 4 | 10° 9 | 20°45 | 6°24 | 21°25 | 26° 9 | 4°12 | 17°34 | 17°30 | 17° 6 | 9°53 | 13°33 | S 17 | | | | | | | |
| S 18 | 13 46 39 | 28°32'34 | 22°37 | 14°53 | 11°17 | 21°28 | 6°21 | 21°21 | 26° 8 | 4°13 | 17°36 | 17°R30 | 17° 3 | 10° 0 | 13°36 | S 18 | | | | | | | |
| M19 | 13 50 35 | 29°31'30 | 4♈30 | 16°44 | 12°24 | 22°11 | 6°19 | 21°17 | 26° 7 | 4°13 | 17°37 | 17°29 | 17° 0 | 10° 6 | 13°40 | M19 | | | | | | | |
| T 20 | 13 54 32 | 0♃30'24 | 16°28 | 18°36 | 13°31 | 22°54 | 6°17 | 21°13 | 26° 6 | 4°13 | 17°38 | 17°28 | 16°56 | 10°13 | 13°43 | T 20 | | | | | | | |
| W21 | 13 58 28 | 1°29'16 | 28°35 | 20°29 | 14°38 | 23°37 | 6°15 | 21° 8 | 26° 5 | 4°13 | 17°40 | 17°26 | 16°53 | 10°20 | 13°47 | W21 | | | | | | | |
| T 22 | 14 2 25 | 2°28'06 | 10♌71 | 22°24 | 15°45 | 24°21 | 6°13 | 21° 4 | 26° 4 | 4°13 | 17°41 | 17°24 | 16°50 | 10°26 | 13°51 | T 22 | | | | | | | |
| F 23 | 14 6 22 | 3°26'55 | 23°18 | 24°20 | 16°51 | 25° 4 | 6°11 | 21° 0 | 26° 2 | 4°14 | 17°43 | 17°22 | 16°47 | 10°33 | 13°54 | F 23 | | | | | | | |
| S 24 | 14 10 18 | 4°25'41 | 6♌0 | 26°18 | 17°58 | 25°47 | 6° 9 | 20°56 | 26° 1 | 4°14 | 17°44 | 17°20 | 16°44 | 10°39 | 13°58 | S 24 | | | | | | | |
| S 25 | 14 14 15 | 5°24'26 | 18°59 | 28°18 | 19° 4 | 26°30 | 6° 8 | 20°52 | 26° 0 | 4°14 | 17°46 | 17°18 | 16°40 | 10°46 | 14° 2 | S 25 | | | | | | | |
| M26 | 14 18 11 | 6°23'10 | 2♌15 | 0♃18 | 20°10 | 27°13 | 6° 7 | 20°47 | 25°59 | 4°15 | 17°47 | 17°D18 | 16°37 | 10°53 | 14° 6 | M26 | | | | | | | |
| T 27 | 14 22 8 | 7°21'51 | 15°53 | 2°21 | 21°15 | 27°56 | 6° 6 | 20°43 | 25°57 | 4°15 | 17°48 | 17°18 | 16°34 | 10°59 | 14°10 | T 27 | | | | | | | |
| W28 | 14 26 4 | 8°20'31 | 29°51 | 4°24 | 22°21 | 28°40 | 6° 5 | 20°39 | 25°56 | 4°16 | 17°50 | 17°19 | 16°31 | 11° 6 | 14°14 | W28 | | | | | | | |
| T 29 | 14 30 1 | 9°19'10 | 14♌11 | 6°29 | 23°26 | 29°23 | 6° 4 | 20°34 | 25°55 | 4°16 | 17°51 | 17°20 | 16°28 | 11°13 | 14°18 | T 29 | | | | | | | |
| F 30 | 14 33 57 | 10♌17'46 | 28♌49 | 8♌34 | 24♈31 | 0♃6 | 6♈4 | 20♈30 | 25♌53 | 4♏17 | 17°52 | 17♌21 | 16♌25 | 11♌19 | 14♈22 | F 30 | | | | | | | |

Delta T = 18m30s

ASTRODIENST EPHEMERIS for the year 2573
geocentric

MAY 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|------|--------|--------|-------|-------|-------|------|---|-----|
| S 1 | 14 37 54 | 11♈16'21 | 13♋42 | 10♌41 | 25♍36 | 0♎49 | 6°R 4 | 20°R25 | 25°R52 | 4♏17 | 17°V54 | 17°R22 | 16♐21 | 11♑26 | 14♒26 | S 1 | | |
| S 2 | 14 41 51 | 12°14'55 | 28°43 | 12°49 | 26°40 | 1°32 | 6°D 3 | 20♎21 | 25♏50 | 4°18 | 17°55 | 17♏22 | 16°18 | 11°33 | 14°30 | S 2 | | |
| M 3 | 14 45 47 | 13°13'26 | 13♌43 | 14°57 | 27°45 | 2°15 | 6♎4 | 20°16 | 25°49 | 4°18 | 17°57 | 17°20 | 16°15 | 11°39 | 14°34 | M 3 | | |
| T 4 | 14 49 44 | 14°11'56 | 28°35 | 17° 5 | 28°49 | 2°59 | 6° 4 | 20°12 | 25°47 | 4°19 | 17°58 | 17°17 | 16°12 | 11°46 | 14°38 | T 4 | | |
| W 5 | 14 53 40 | 15°10'24 | 13♍ 9 | 19°14 | 29°53 | 3°42 | 6° 4 | 20° 7 | 25°45 | 4°20 | 17°59 | 17°13 | 16° 9 | 11°53 | 14°42 | W 5 | | |
| T 6 | 14 57 37 | 16° 8'50 | 27°21 | 21°22 | 0♎56 | 4°25 | 6° 5 | 20° 3 | 25°44 | 4°20 | 18° 1 | 17° 9 | 16° 5 | 11°59 | 14°46 | T 6 | | |
| F 7 | 15 1 33 | 17° 7'13 | 11♏ 7 | 23°31 | 1°59 | 5° 8 | 6° 6 | 19°58 | 25°42 | 4°21 | 18° 2 | 17° 5 | 16° 2 | 12° 6 | 14°50 | F 7 | | |
| S 8 | 15 5 30 | 18° 5'35 | 24°25 | 25°38 | 3° 2 | 5°51 | 6° 7 | 19°54 | 25°40 | 4°22 | 18° 3 | 17° 2 | 15°59 | 12°12 | 14°55 | S 8 | | |
| S 9 | 15 9 26 | 19° 3'55 | 7♏17 | 27°45 | 4° 5 | 6°34 | 6° 8 | 19°49 | 25°38 | 4°23 | 18° 4 | 17° 0 | 15°56 | 12°19 | 14°59 | S 9 | | |
| M10 | 15 13 23 | 20° 2'13 | 19°47 | 29°50 | 5° 7 | 7°17 | 6°10 | 19°45 | 25°37 | 4°23 | 18° 6 | 16°D59 | 15°53 | 12°26 | 15° 3 | M10 | | |
| T 11 | 15 17 20 | 21° 0'28 | 1♏59 | 1♐54 | 6° 9 | 8° 0 | 6°11 | 19°40 | 25°35 | 4°24 | 18° 7 | 17° 0 | 15°50 | 12°32 | 15° 7 | T 11 | | |
| W12 | 15 21 16 | 21°58'42 | 13°58 | 3°55 | 7°11 | 8°43 | 6°13 | 19°35 | 25°33 | 4°25 | 18° 8 | 17° 1 | 15°46 | 12°39 | 15°12 | W12 | | |
| T 13 | 15 25 13 | 22°56'53 | 25°49 | 5°55 | 8°12 | 9°26 | 6°15 | 19°31 | 25°31 | 4°26 | 18°10 | 17° 3 | 15°43 | 12°46 | 15°16 | T 13 | | |
| F 14 | 15 29 9 | 23°55'03 | 7♁36 | 7°52 | 9°13 | 10° 9 | 6°17 | 19°26 | 25°29 | 4°27 | 18°11 | 17° 4 | 15°40 | 12°52 | 15°20 | F 14 | | |
| S 15 | 15 33 6 | 24°53'11 | 19°23 | 9°47 | 10°13 | 10°52 | 6°19 | 19°22 | 25°27 | 4°28 | 18°12 | 17°R 5 | 15°37 | 12°59 | 15°25 | S 15 | | |
| S 16 | 15 37 2 | 25°51'17 | 1♐15 | 11°38 | 11°14 | 11°35 | 6°22 | 19°17 | 25°25 | 4°29 | 18°13 | 17° 4 | 15°34 | 13° 6 | 15°29 | S 16 | | |
| M17 | 15 40 59 | 26°49'21 | 13°15 | 13°27 | 12°13 | 12°18 | 6°24 | 19°13 | 25°23 | 4°30 | 18°14 | 17° 1 | 15°31 | 13°12 | 15°34 | M17 | | |
| T 18 | 15 44 55 | 27°47'24 | 25°24 | 15°13 | 13°13 | 13° 1 | 6°27 | 19° 8 | 25°21 | 4°31 | 18°16 | 16°56 | 15°27 | 13°19 | 15°38 | T 18 | | |
| W19 | 15 48 52 | 28°45'25 | 7♁44 | 16°55 | 14°12 | 13°44 | 6°30 | 19° 4 | 25°19 | 4°32 | 18°17 | 16°50 | 15°24 | 13°26 | 15°43 | W19 | | |
| T 20 | 15 52 49 | 29°43'24 | 20°16 | 18°34 | 15°10 | 14°27 | 6°33 | 18°59 | 25°17 | 4°33 | 18°18 | 16°42 | 15°21 | 13°32 | 15°47 | T 20 | | |
| F 21 | 15 56 45 | 0♐41'22 | 3♌ 1 | 20° 9 | 16° 8 | 15°10 | 6°37 | 18°55 | 25°14 | 4°35 | 18°19 | 16°35 | 15°18 | 13°39 | 15°52 | F 21 | | |
| S 22 | 16 0 42 | 1°39'19 | 15°59 | 21°41 | 17° 6 | 15°53 | 6°40 | 18°51 | 25°12 | 4°36 | 18°20 | 16°27 | 15°15 | 13°46 | 15°56 | S 22 | | |
| S 23 | 16 4 38 | 2°37'14 | 29°10 | 23°10 | 18° 3 | 16°36 | 6°44 | 18°46 | 25°10 | 4°37 | 18°21 | 16°22 | 15°11 | 13°52 | 16° 1 | S 23 | | |
| M24 | 16 8 35 | 3°35'08 | 12♁34 | 24°34 | 19° 0 | 17°18 | 6°48 | 18°42 | 25° 8 | 4°38 | 18°22 | 16°18 | 15° 8 | 13°59 | 16° 5 | M24 | | |
| T 25 | 16 12 31 | 4°33'01 | 26°12 | 25°55 | 19°56 | 18° 1 | 6°52 | 18°38 | 25° 6 | 4°40 | 18°24 | 16°16 | 15° 5 | 14° 5 | 16°10 | T 25 | | |
| W26 | 16 16 28 | 5°30'53 | 10♋ 5 | 27°12 | 20°52 | 18°44 | 6°56 | 18°33 | 25° 3 | 4°41 | 18°25 | 16°D15 | 15° 2 | 14°12 | 16°14 | W26 | | |
| T 27 | 16 20 24 | 6°28'43 | 24°11 | 28°25 | 21°47 | 19°27 | 7° 0 | 18°29 | 25° 1 | 4°42 | 18°26 | 16°16 | 14°59 | 14°19 | 16°19 | T 27 | | |
| F 28 | 16 24 21 | 7°26'33 | 8♋31 | 29°34 | 22°42 | 20° 9 | 7° 5 | 18°25 | 24°59 | 4°44 | 18°27 | 16°17 | 14°56 | 14°25 | 16°23 | F 28 | | |
| S 29 | 16 28 18 | 8°24'21 | 23° 2 | 0♎40 | 23°36 | 20°52 | 7° 9 | 18°21 | 24°56 | 4°45 | 18°28 | 16°R17 | 14°52 | 14°32 | 16°28 | S 29 | | |
| S 30 | 16 32 14 | 9°22'08 | 7♁41 | 1°41 | 24°29 | 21°35 | 7°14 | 18°17 | 24°54 | 4°46 | 18°29 | 16°15 | 14°49 | 14°39 | 16°33 | S 30 | | |
| M31 | 16 36 11 | 10♐19'54 | 22♋21 | 2♎38 | 25♎22 | 22♋17 | 7♎19 | 18♎13 | 24♏52 | 4♏48 | 18°V30 | 16♐11 | 14♑46 | 14♒45 | 16♒37 | M31 | | |

Delta T = 18m30s

JUNE 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|--------|--------|------|--------|--------|-------|-------|-------|------|-----|
| T 1 | 16 40 7 | 11♐17'39 | 6♐57 | 3♎32 | 26♏15 | 23♋ 0 | 7♎24 | 18°R 9 | 24°R49 | 4♏49 | 18°V31 | 16°R 5 | 14♑43 | 14♒52 | 16♒42 | T 1 | |
| W 2 | 16 44 4 | 12°15'23 | 21°21 | 4°20 | 27° 6 | 23°42 | 7°29 | 18♎ 5 | 24♏47 | 4°51 | 18°32 | 15♑57 | 14°40 | 14°59 | 16°46 | W 2 | |
| T 3 | 16 48 0 | 13°13'05 | 5♎28 | 5° 5 | 27°57 | 24°25 | 7°35 | 18° 1 | 24°45 | 4°52 | 18°33 | 15°48 | 14°37 | 15° 5 | 16°51 | T 3 | |
| F 4 | 16 51 57 | 14°10'46 | 19°11 | 5°45 | 28°48 | 25° 7 | 7°40 | 17°57 | 24°42 | 4°54 | 18°34 | 15°39 | 14°33 | 15°12 | 16°56 | F 4 | |
| S 5 | 16 55 53 | 15° 8'26 | 2♏30 | 6°21 | 29°37 | 25°50 | 7°46 | 17°53 | 24°40 | 4°55 | 18°34 | 15°31 | 14°30 | 15°19 | 17° 0 | S 5 | |
| S 6 | 16 59 50 | 16° 6'04 | 15°25 | 6°52 | 0♏26 | 26°32 | 7°52 | 17°49 | 24°37 | 4°57 | 18°35 | 15°24 | 14°27 | 15°25 | 17° 5 | S 6 | |
| M 7 | 17 3 47 | 17° 3'40 | 27°57 | 7°19 | 1°14 | 27°14 | 7°58 | 17°46 | 24°35 | 4°59 | 18°36 | 15°20 | 14°24 | 15°32 | 17°10 | M 7 | |
| T 8 | 17 7 43 | 18° 1'16 | 10♎10 | 7°41 | 2° 1 | 27°56 | 8° 4 | 17°42 | 24°32 | 5° 0 | 18°37 | 15°19 | 14°21 | 15°38 | 17°14 | T 8 | |
| W 9 | 17 11 40 | 18°58'50 | 22°10 | 7°59 | 2°48 | 28°38 | 8°10 | 17°39 | 24°30 | 5° 2 | 18°38 | 15°D18 | 14°17 | 15°45 | 17°19 | W 9 | |
| T 10 | 17 15 36 | 19°56'22 | 4♁ 1 | 8°11 | 3°33 | 29°21 | 8°17 | 17°35 | 24°27 | 5° 3 | 18°39 | 15°19 | 14°14 | 15°52 | 17°23 | T 10 | |
| F 11 | 17 19 33 | 20°53'53 | 15°48 | 8°20 | 4°18 | 0♋ 3 | 8°23 | 17°32 | 24°25 | 5° 5 | 18°40 | 15°R19 | 14°11 | 15°58 | 17°28 | F 11 | |
| S 12 | 17 23 29 | 21°51'23 | 27°38 | 8°R23 | 5° 1 | 0°45 | 8°30 | 17°28 | 24°22 | 5° 7 | 18°40 | 15°18 | 14° 8 | 16° 5 | 17°33 | S 12 | |
| S 13 | 17 27 26 | 22°48'52 | 9♎34 | 8°22 | 5°44 | 1°26 | 8°37 | 17°25 | 24°20 | 5° 9 | 18°41 | 15°16 | 14° 5 | 16°12 | 17°37 | S 13 | |
| M14 | 17 31 22 | 23°46'20 | 21°41 | 8°17 | 6°26 | 2° 8 | 8°44 | 17°22 | 24°18 | 5°10 | 18°42 | 15°11 | 14° 2 | 16°18 | 17°42 | M14 | |
| T 15 | 17 35 19 | 24°43'47 | 4♁ 1 | 8° 7 | 7° 6 | 2°50 | 8°51 | 17°19 | 24°15 | 5°12 | 18°43 | 15° 3 | 13°58 | 16°25 | 17°47 | T 15 | |
| W16 | 17 39 16 | 25°41'12 | 16°36 | 7°53 | 7°46 | 3°32 | 8°58 | 17°16 | 24°13 | 5°14 | 18°43 | 14°53 | 13°55 | 16°32 | 17°51 | W16 | |
| T 17 | 17 43 12 | 26°38'37 | 29°27 | 7°35 | 8°24 | 4°13 | 9° 6 | 17°13 | 24°10 | 5°16 | 18°44 | 14°42 | 13°52 | 16°38 | 17°56 | T 17 | |
| F 18 | 17 47 9 | 27°36'01 | 12♋33 | 7°14 | 9° 1 | 4°55 | 9°13 | 17°10 | 24° 8 | 5°18 | 18°45 | 14°30 | 13°49 | 16°45 | 18° 0 | F 18 | |
| S 19 | 17 51 5 | 28°33'24 | 25°53 | 6°49 | 9°37 | 5°37 | 9°21 | 17° 7 | 24° 5 | 5°19 | 18°45 | 14°19 | 13°46 | 16°52 | 18° 5 | S 19 | |
| S 20 | 17 55 2 | 29°30'47 | 9♁25 | 6°22 | 10°12 | 6°18 | 9°28 | 17° 4 | 24° 3 | 5°21 | 18°46 | 14° 9 | 13°43 | 16°58 | 18°10 | S 20 | |
| M21 | 17 58 58 | 0♎28'09 | 23° 7 | 5°52 | 10°45 | 6°59 | 9°36 | 17° 1 | 24° 0 | 5°23 | 18°46 | 14° 3 | 13°39 | 17° 5 | 18°14 | M21 | |
| T 22 | 18 2 55 | 1°25'30 | 6♋57 | 5°20 | 11°17 | 7°41 | 9°44 | 16°59 | 23°58 | 5°25 | 18°47 | 13°58 | 13°36 | 17°11 | 18°19 | T 22 | |
| W23 | 18 6 51 | 2°22'51 | 20°54 | 4°47 | 11°48 | 8°22 | 9°52 | 16°56 | 23°55 | 5°27 | 18°48 | 13°57 | 13°33 | 17°18 | 18°23 | W23 | |
| T 24 | 18 10 48 | 3°20'12 | 4♋57 | 4°13 | 12°17 | 9° 3 | 10° 0 | 16°54 | 23°53 | 5°29 | 18°48 | 13°D56 | 13°30 | 17°25 | 18°28 | T 24 | |
| F 25 | 18 14 45 | 4°17'32 | 19° 6 | 3°39 | 12°45 | 9°44 | 10° 9 | 16°52 | 23°50 | 5°31 | 18°49 | 13°R56 | 13°27 | 17°31 | 18°32 | F 25 | |
| S 26 | 18 18 41 | 5°14'52 | 3♋19 | 3° 6 | 13°11 | 10°25 | 10°17 | 16°49 | 23°48 | 5°33 | 18°49 | 13°55 | 13°23 | 17°38 | 18°37 | S 26 | |
| S 27 | 18 22 38 | 6°12'11 | 17°35 | 2°33 | 13°35 | 11° 6 | 10°26 | 16°47 | 23°46 | 5°35 | 18°50 | 13°52 | 13°20 | 17°45 | 18°41 | S 27 | |
| M28 | 18 26 34 | 7° 9'31 | 1♐51 | 2° 2 | 13°58 | 11°47 | 10°34 | 16°45 | 23°43 | 5°37 | 18°50 | 13°47 | 13°17 | 17°51 | 18°46 | M28 | |
| T 29 | 18 30 31 | 8° 6'50 | 16° 3 | 1°33 | 14°19 | 12°27 | 10°43 | 16°43 | 23°41 | 5°39 | 18°51 | 13°38 | 13°14 | 17°58 | 18°50 | T 29 | |
| W30 | 18 34 27 | 9° 4'09 | 0♎ 5 | 1° 6 | 14♏38 | 13°V 8 | 10♎52 | 16♎41 | 23♏39 | 5♏41 | 18°V51 | 13♑28 | 13♒11 | 18♒ 5 | 18♒55 | W30 | |

Delta T = 18m31s

ASTRODIENST EPHEMERIS for the year 2573
geocentric

JULY 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|--------|--------|------|--------|--------|-------|-------|-------|-------|-----|---|---|---|---|---|-----|
| T 1 | 18 38 24 | 10♄1'27 | 13♄54 | 0°R43 | 14♌55 | 13♍48 | 11♎1 | 16°R39 | 23°R36 | 5♌43 | 18♍51 | 13°R16 | 13♎8 | 18♏11 | 18♐59 | 18♑59 | T 1 | | | | | | |
| F 2 | 18 42 21 | 10°58'45 | 27°24 | 0♄23 | 15°10 | 14°29 | 11°10 | 16♌37 | 23♎34 | 5°45 | 18°52 | 13♎4 | 13°4 | 18°18 | 19°4 | F 2 | | | | | | | |
| S 3 | 18 46 17 | 11°56'02 | 10♌35 | 0°6 | 15°24 | 15°9 | 11°19 | 16°36 | 23°32 | 5°47 | 18°52 | 12°53 | 13°1 | 18°25 | 19°8 | S 3 | | | | | | | |
| S 4 | 18 50 14 | 12°53'19 | 23°24 | 29♐54 | 15°35 | 15°49 | 11°29 | 16°34 | 23°29 | 5°49 | 18°52 | 12°44 | 12°58 | 18°31 | 19°13 | S 4 | | | | | | | |
| M 5 | 18 54 10 | 13°50'36 | 5♎54 | 29°46 | 15°44 | 16°29 | 11°38 | 16°33 | 23°27 | 5°51 | 18°53 | 12°37 | 12°55 | 18°38 | 19°17 | M 5 | | | | | | | |
| T 6 | 18 58 7 | 14°47'51 | 18°6 | 29°D42 | 15°51 | 17°9 | 11°47 | 16°31 | 23°25 | 5°53 | 18°53 | 12°34 | 12°52 | 18°45 | 19°21 | T 6 | | | | | | | |
| W 7 | 19 2 3 | 15°45'06 | 0♄6 | 29°43 | 15°56 | 17°48 | 11°57 | 16°30 | 23°22 | 5°55 | 18°53 | 12°32 | 12°49 | 18°51 | 19°26 | W 7 | | | | | | | |
| T 8 | 19 6 0 | 16°42'21 | 11°57 | 29°49 | 15°59 | 18°28 | 12°7 | 16°29 | 23°20 | 5°57 | 18°53 | 12°32 | 12°45 | 18°58 | 19°30 | T 8 | | | | | | | |
| F 9 | 19 9 56 | 17°39'35 | 23°45 | 29°59 | 15°R59 | 19°8 | 12°16 | 16°28 | 23°18 | 6°0 | 18°54 | 12°32 | 12°42 | 19°4 | 19°34 | F 9 | | | | | | | |
| S 10 | 19 13 53 | 18°36'49 | 5♌36 | 0♄15 | 15°57 | 19°47 | 12°26 | 16°27 | 23°16 | 6°2 | 18°54 | 12°31 | 12°39 | 19°11 | 19°38 | S 10 | | | | | | | |
| S 11 | 19 17 49 | 19°34'03 | 17°35 | 0°36 | 15°52 | 20°26 | 12°36 | 16°26 | 23°14 | 6°4 | 18°54 | 12°28 | 12°36 | 19°18 | 19°43 | S 11 | | | | | | | |
| M12 | 19 21 46 | 20°31'16 | 29°47 | 1°1 | 15°45 | 21°5 | 12°46 | 16°25 | 23°12 | 6°6 | 18°54 | 12°23 | 12°33 | 19°24 | 19°47 | M12 | | | | | | | |
| T 13 | 19 25 43 | 21°28'29 | 12♎15 | 1°31 | 15°36 | 21°44 | 12°56 | 16°25 | 23°10 | 6°8 | 18°54 | 12°16 | 12°29 | 19°31 | 19°51 | T 13 | | | | | | | |
| W14 | 19 29 39 | 22°25'42 | 25°2 | 2°7 | 15°24 | 22°23 | 13°7 | 16°24 | 23°8 | 6°10 | 18°54 | 12°6 | 12°26 | 19°38 | 19°55 | W14 | | | | | | | |
| T 15 | 19 33 36 | 23°22'54 | 8♄9 | 2°47 | 15°10 | 23°2 | 13°17 | 16°24 | 23°5 | 6°13 | 18°55 | 11°55 | 12°23 | 19°44 | 19°59 | T 15 | | | | | | | |
| F 16 | 19 37 32 | 24°20'07 | 21°36 | 3°31 | 14°54 | 23°40 | 13°27 | 16°23 | 23°3 | 6°15 | 18°55 | 11°43 | 12°20 | 19°51 | 20°3 | F 16 | | | | | | | |
| S 17 | 19 41 29 | 25°17'19 | 5♎19 | 4°21 | 14°35 | 24°18 | 13°38 | 16°23 | 23°2 | 6°17 | 18°55 | 11°32 | 12°17 | 19°58 | 20°7 | S 17 | | | | | | | |
| S 18 | 19 45 25 | 26°14'32 | 19°15 | 5°15 | 14°14 | 24°57 | 13°48 | 16°23 | 23°0 | 6°19 | 18°55 | 11°22 | 12°14 | 20°4 | 20°11 | S 18 | | | | | | | |
| M19 | 19 49 22 | 27°11'45 | 3♎21 | 6°14 | 13°50 | 25°35 | 13°59 | 16°23 | 22°58 | 6°21 | 18°R55 | 11°15 | 12°10 | 20°11 | 20°15 | M19 | | | | | | | |
| T 20 | 19 53 19 | 28°8'58 | 17°32 | 7°18 | 13°25 | 26°12 | 14°10 | 16°D23 | 22°56 | 6°24 | 18°55 | 11°11 | 12°7 | 20°18 | 20°19 | T 20 | | | | | | | |
| W21 | 19 57 15 | 29°6'12 | 1♍45 | 8°26 | 12°58 | 26°50 | 14°20 | 16°23 | 22°54 | 6°26 | 18°55 | 11°9 | 12°4 | 20°24 | 20°23 | W21 | | | | | | | |
| T 22 | 20 1 12 | 0♌3'26 | 15°56 | 9°38 | 12°28 | 27°28 | 14°31 | 16°23 | 22°52 | 6°28 | 18°55 | 11°D9 | 12°1 | 20°31 | 20°27 | T 22 | | | | | | | |
| F 23 | 20 5 8 | 1°0'40 | 0♄5 | 10°55 | 11°57 | 28°5 | 14°42 | 16°23 | 22°50 | 6°30 | 18°54 | 11°R9 | 11°58 | 20°37 | 20°31 | F 23 | | | | | | | |
| S 24 | 20 9 5 | 1°57'55 | 14°11 | 12°16 | 11°25 | 28°42 | 14°53 | 16°24 | 22°49 | 6°32 | 18°54 | 11°9 | 11°55 | 20°44 | 20°35 | S 24 | | | | | | | |
| S 25 | 20 13 1 | 2°55'11 | 28°11 | 13°41 | 10°51 | 29°19 | 15°4 | 16°24 | 22°47 | 6°35 | 18°54 | 11°7 | 11°51 | 20°51 | 20°38 | S 25 | | | | | | | |
| M26 | 20 16 58 | 3°52'28 | 12♐6 | 15°11 | 10°16 | 29°56 | 15°15 | 16°25 | 22°45 | 6°37 | 18°54 | 11°2 | 11°48 | 20°57 | 20°42 | M26 | | | | | | | |
| T 27 | 20 20 54 | 4°49'45 | 25°53 | 16°44 | 9°40 | 0♄32 | 15°26 | 16°25 | 22°44 | 6°39 | 18°54 | 10°55 | 11°45 | 21°4 | 20°46 | T 27 | | | | | | | |
| W28 | 20 24 51 | 5°47'03 | 9♄30 | 18°22 | 9°4 | 1°9 | 15°38 | 16°26 | 22°42 | 6°41 | 18°54 | 10°45 | 11°42 | 21°11 | 20°50 | W28 | | | | | | | |
| T 29 | 20 28 48 | 6°44'21 | 22°55 | 20°3 | 8°27 | 1°45 | 15°49 | 16°27 | 22°40 | 6°44 | 18°54 | 10°35 | 11°39 | 21°17 | 20°53 | T 29 | | | | | | | |
| F 30 | 20 32 44 | 7°41'40 | 6♌5 | 21°47 | 7°49 | 2°21 | 16°0 | 16°28 | 22°39 | 6°46 | 18°53 | 10°24 | 11°35 | 21°24 | 20°57 | F 30 | | | | | | | |
| S 31 | 20 36 41 | 8♌38'59 | 18♌59 | 23♄35 | 7♌12 | 2♄56 | 16♎12 | 16♌29 | 22♎37 | 6♌48 | 18♍53 | 10♄15 | 11♄32 | 21♄31 | 21♐0 | S 31 | | | | | | | |

Delta T = 18m31s

AUGUST 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|-------|--------|------|--------|-------|-------|-------|-------|------|---|---|---|---|---|---|-----|
| S 1 | 20 40 37 | 9♌36'19 | 1♎36 | 25♄27 | 6°R35 | 3♄32 | 16♎23 | 16♌30 | 22°R36 | 6♌50 | 18°R53 | 10°R7 | 11♄29 | 21♄37 | 21♐4 | S 1 | | | | | | | |
| M 2 | 20 44 34 | 10°33'39 | 13°58 | 27°21 | 5♌58 | 4°7 | 16°35 | 16°31 | 22♎35 | 6°52 | 18°R52 | 10♄1 | 11°26 | 21°44 | 21°7 | M 2 | | | | | | | |
| T 3 | 20 48 30 | 11°30'59 | 26°6 | 29°17 | 5°22 | 4°42 | 16°47 | 16°33 | 22°33 | 6°55 | 18°52 | 9°58 | 11°23 | 21°51 | 21°11 | T 3 | | | | | | | |
| W 4 | 20 52 27 | 12°28'20 | 8♄2 | 1♌16 | 4°47 | 5°17 | 16°58 | 16°34 | 22°32 | 6°57 | 18°52 | 9°D57 | 11°20 | 21°57 | 21°14 | W 4 | | | | | | | |
| T 5 | 20 56 23 | 13°25'42 | 19°53 | 3°17 | 4°12 | 5°51 | 17°10 | 16°36 | 22°31 | 6°59 | 18°51 | 9°57 | 11°16 | 22°4 | 21°17 | T 5 | | | | | | | |
| F 6 | 21 0 20 | 14°23'03 | 1♌41 | 5°20 | 3°40 | 6°26 | 17°22 | 16°38 | 22°29 | 7°1 | 18°51 | 9°58 | 11°13 | 22°11 | 21°21 | F 6 | | | | | | | |
| S 7 | 21 4 16 | 15°20'26 | 13°32 | 7°23 | 3°8 | 6°59 | 17°34 | 16°39 | 22°28 | 7°3 | 18°51 | 9°R59 | 11°10 | 22°17 | 21°24 | S 7 | | | | | | | |
| S 8 | 21 8 13 | 16°17'49 | 25°31 | 9°28 | 2°39 | 7°33 | 17°46 | 16°41 | 22°27 | 7°6 | 18°50 | 9°58 | 11°7 | 22°24 | 21°27 | S 8 | | | | | | | |
| M 9 | 21 12 10 | 17°15'12 | 7♎44 | 11°34 | 2°11 | 8°7 | 17°57 | 16°43 | 22°26 | 7°8 | 18°50 | 9°56 | 11°4 | 22°30 | 21°30 | M 9 | | | | | | | |
| T 10 | 21 16 6 | 18°12'36 | 20°15 | 13°39 | 1°45 | 8°40 | 18°9 | 16°45 | 22°25 | 7°10 | 18°49 | 9°52 | 11°0 | 22°37 | 21°33 | T 10 | | | | | | | |
| W11 | 21 20 3 | 19°10'00 | 3♄7 | 15°45 | 1°21 | 9°13 | 18°22 | 16°47 | 22°24 | 7°12 | 18°49 | 9°46 | 10°57 | 22°44 | 21°36 | W11 | | | | | | | |
| T 12 | 21 23 59 | 20°7'26 | 16°23 | 17°51 | 0°59 | 9°45 | 18°34 | 16°50 | 22°23 | 7°14 | 18°48 | 9°39 | 10°54 | 22°50 | 21°39 | T 12 | | | | | | | |
| F 13 | 21 27 56 | 21°4'51 | 0♄3 | 19°56 | 0°39 | 10°17 | 18°46 | 16°52 | 22°22 | 7°17 | 18°48 | 9°31 | 10°51 | 22°57 | 21°42 | F 13 | | | | | | | |
| S 14 | 21 31 52 | 22°2'18 | 14°4 | 22°0 | 0°22 | 10°49 | 18°58 | 16°54 | 22°21 | 7°19 | 18°47 | 9°23 | 10°48 | 23°4 | 21°45 | S 14 | | | | | | | |
| S 15 | 21 35 49 | 22°59'46 | 28°23 | 24°4 | 0°7 | 11°21 | 19°10 | 16°57 | 22°21 | 7°21 | 18°47 | 9°17 | 10°45 | 23°10 | 21°48 | S 15 | | | | | | | |
| M16 | 21 39 45 | 23°57'14 | 12♎53 | 26°6 | 29♄55 | 11°52 | 19°22 | 16°59 | 22°20 | 7°23 | 18°46 | 9°13 | 10°41 | 23°17 | 21°51 | M16 | | | | | | | |
| T 17 | 21 43 42 | 24°54'44 | 27°29 | 28°8 | 29°45 | 12°23 | 19°35 | 17°2 | 22°19 | 7°25 | 18°45 | 9°10 | 10°38 | 23°24 | 21°54 | T 17 | | | | | | | |
| W18 | 21 47 39 | 25°52'14 | 12♍5 | 0♎8 | 29°37 | 12°54 | 19°47 | 17°5 | 22°18 | 7°27 | 18°45 | 9°D10 | 10°35 | 23°30 | 21°56 | W18 | | | | | | | |
| T 19 | 21 51 35 | 26°49'46 | 26°34 | 2°7 | 29°32 | 13°24 | 19°59 | 17°8 | 22°18 | 7°30 | 18°44 | 9°10 | 10°32 | 23°37 | 21°59 | T 19 | | | | | | | |
| F 20 | 21 55 32 | 27°47'20 | 10♄55 | 4°5 | 29°29 | 13°55 | 20°12 | 17°11 | 22°17 | 7°32 | 18°44 | 9°12 | 10°29 | 23°44 | 22°2 | F 20 | | | | | | | |
| S 21 | 21 59 28 | 28°44'55 | 25°3 | 6°1 | 29°D29 | 14°24 | 20°24 | 17°14 | 22°17 | 7°34 | 18°43 | 9°R13 | 10°26 | 23°50 | 22°4 | S 21 | | | | | | | |
| S 22 | 22 3 25 | 29°42'31 | 8♐59 | 7°56 | 29°30 | 14°53 | 20°37 | 17°17 | 22°16 | 7°36 | 18°42 | 9°12 | 10°22 | 23°57 | 22°7 | S 22 | | | | | | | |
| M23 | 22 7 21 | 0♎40'09 | 22°41 | 9°49 | 29°34 | 15°22 | 20°49 | 17°20 | 22°16 | 7°38 | 18°41 | 9°10 | 10°19 | 24°4 | 22°9 | M23 | | | | | | | |
| T 24 | 22 11 18 | 1°37'48 | 6♄10 | 11°41 | 29°41 | 15°51 | 21°2 | 17°23 | 22°15 | 7°40 | 18°41 | 9°7 | 10°16 | 24°10 | 22°11 | T 24 | | | | | | | |
| W25 | 22 15 14 | 2°35'29 | 19°25 | 13°32 | 29°49 | 16°19 | 21°14 | 17°27 | 22°15 | 7°42 | 18°40 | 9°2 | 10°13 | 24°17 | 22°14 | W25 | | | | | | | |
| T 26 | 22 19 11 | 3°33'11 | 2♌27 | 15°21 | 0♌0 | 16°47 | 21°27 | 17°30 | 22°15 | 7°44 | 18°39 | 8°56 | 10°10 | 24°24 | 22°16 | T 26 | | | | | | | |
| F 27 | 22 23 8 | 4°30'55 | 15°15 | 17°8 | 0°13 | 17°14 | 21°40 | 17°34 | 22°15 | 7°46 | 18°38 | 8°50 | 10°6 | 24°30 | 22°18 | F 27 | | | | | | | |
| S 28 | 22 27 4 | 5°28'40 | 27°49 | 18°54 | 0°28 | 17°41 | 21°52 | 17°37 | 22°14 | 7°48 | 18°38 | 8°45 | 10°3 | 24°37 | 22°20 | S 28 | | | | | | | |
| S 29 | 22 31 1 | 6°26'26 | 10♎11 | 20°39 | 0°44 | 18°7 | 22°5 | 17°41 | 22°14 | 7°50 | 18°37 | 8°41 | 10°0 | 24°43 | 22°22 | S 29 | | | | | | | |
| M30 | 22 34 57 | 7°24'14 | 22°22 | 22°23 | 1°3 | 18°33 | 22°18 | 17°45 | 22°14 | 7°52 | 18°36 | 8°38 | 9°57 | 24°50 | 22°24 | M30 | | | | | | | |
| T 31 | 22 38 54 | 8♎22'02 | 4♄22 | 24♎5 | 1♌23 | 18♄58 | 22♎31 | 17♌49 | 22°D14 | 7♌54 | 18♍35 | 8°D37 | 9♄54 | 24♄57 | 22♐26 | T 31 | | | | | | | |

Delta T = 18m31s

ASTRODIENST EPHEMERIS for the year 2573
geocentric

SEPTEMBER 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|--------|-------|------|-------|---------|------|---|---|---|---|---|---|---|-----|
| W 1 | 22 42 50 | 9♎19°53 | 16♌15 | 25♎45 | 1♊46 | 19♏23 | 22♎43 | 17♎53 | 22♎14 | 7♎56 | 18°R34 | 8♎37 | 9♎51 | 25♎3 | 22♎28 | W 1 | | | | | | | | |
| T 2 | 22 46 47 | 10°17'44 | 28°3 | 27°24 | 2°9 | 19°48 | 22°56 | 17°57 | 22°14 | 7°58 | 18°Y33 | 8°38 | 9°47 | 25°10 | 22°30 | T 2 | | | | | | | | |
| F 3 | 22 50 43 | 11°15'37 | 9♎50 | 29°2 | 2°35 | 20°12 | 23°9 | 18°1 | 22°14 | 8°0 | 18°33 | 8°40 | 9°44 | 25°17 | 22°32 | F 3 | | | | | | | | |
| S 4 | 22 54 40 | 12°13'31 | 21°41 | 0♎39 | 3°2 | 20°35 | 23°22 | 18°5 | 22°15 | 8°2 | 18°32 | 8°41 | 9°41 | 25°23 | 22°33 | S 4 | | | | | | | | |
| S 5 | 22 58 37 | 13°11'26 | 3♎39 | 2°14 | 3°31 | 20°58 | 23°35 | 18°9 | 22°15 | 8°4 | 18°31 | 8°43 | 9°38 | 25°30 | 22°35 | S 5 | | | | | | | | |
| M 6 | 23 2 33 | 14°9'22 | 15°51 | 3°48 | 4°1 | 21°21 | 23°48 | 18°13 | 22°15 | 8°6 | 18°30 | 8°R43 | 9°35 | 25°37 | 22°36 | M 6 | | | | | | | | |
| T 7 | 23 6 30 | 15°7'20 | 28°20 | 5°20 | 4°33 | 21°43 | 24°0 | 18°18 | 22°16 | 8°8 | 18°29 | 8°42 | 9°32 | 25°43 | 22°38 | T 7 | | | | | | | | |
| W 8 | 23 10 26 | 16°5'19 | 11♎10 | 6°51 | 5°6 | 22°4 | 24°13 | 18°22 | 22°16 | 8°10 | 18°28 | 8°41 | 9°28 | 25°50 | 22°39 | W 8 | | | | | | | | |
| T 9 | 23 14 23 | 17°3'19 | 24°26 | 8°21 | 5°40 | 22°25 | 24°26 | 18°27 | 22°16 | 8°11 | 18°27 | 8°38 | 9°25 | 25°57 | 22°41 | T 9 | | | | | | | | |
| F 10 | 23 18 19 | 18°1'21 | 8♎8 | 9°49 | 6°16 | 22°45 | 24°39 | 18°32 | 22°17 | 8°13 | 18°26 | 8°35 | 9°22 | 26°3 | 22°42 | F 10 | | | | | | | | |
| S 11 | 23 22 16 | 18°59'24 | 22°16 | 11°17 | 6°53 | 23°5 | 24°52 | 18°36 | 22°17 | 8°15 | 18°25 | 8°33 | 9°19 | 26°10 | 22°43 | S 11 | | | | | | | | |
| S 12 | 23 26 12 | 19°57'28 | 6♎47 | 12°42 | 7°31 | 23°24 | 25°5 | 18°41 | 22°18 | 8°17 | 18°24 | 8°30 | 9°16 | 26°17 | 22°44 | S 12 | | | | | | | | |
| M13 | 23 30 9 | 20°55'34 | 21°34 | 14°7 | 8°10 | 23°43 | 25°18 | 18°46 | 22°19 | 8°18 | 18°23 | 8°29 | 9°12 | 26°23 | 22°46 | M13 | | | | | | | | |
| T 14 | 23 34 6 | 21°53'42 | 6♎32 | 15°30 | 8°51 | 24°1 | 25°31 | 18°51 | 22°19 | 8°20 | 18°22 | 8°D28 | 9°9 | 26°30 | 22°47 | T 14 | | | | | | | | |
| W15 | 23 38 2 | 22°51'51 | 21°30 | 16°51 | 9°32 | 24°18 | 25°44 | 18°56 | 22°20 | 8°22 | 18°21 | 8°29 | 9°6 | 26°36 | 22°48 | W15 | | | | | | | | |
| T 16 | 23 41 59 | 23°50'03 | 6♎23 | 18°11 | 10°15 | 24°35 | 25°57 | 19°1 | 22°21 | 8°24 | 18°20 | 8°30 | 9°3 | 26°43 | 22°49 | T 16 | | | | | | | | |
| F 17 | 23 45 55 | 24°48'16 | 21°2 | 19°30 | 10°58 | 24°51 | 26°10 | 19°6 | 22°22 | 8°25 | 18°19 | 8°31 | 9°0 | 26°50 | 22°49 | F 17 | | | | | | | | |
| S 18 | 23 49 52 | 25°46'31 | 5♎24 | 20°47 | 11°43 | 25°6 | 26°23 | 19°11 | 22°23 | 8°27 | 18°18 | 8°32 | 8°57 | 26°56 | 22°50 | S 18 | | | | | | | | |
| S 19 | 23 53 48 | 26°44'49 | 19°25 | 22°2 | 12°28 | 25°21 | 26°36 | 19°16 | 22°24 | 8°29 | 18°17 | 8°32 | 8°53 | 27°3 | 22°51 | S 19 | | | | | | | | |
| M20 | 23 57 45 | 27°43'08 | 3♎6 | 23°16 | 13°14 | 25°35 | 26°49 | 19°22 | 22°25 | 8°30 | 18°16 | 8°R32 | 8°50 | 27°10 | 22°51 | M20 | | | | | | | | |
| T 21 | 0 1 41 | 28°41'30 | 16°26 | 24°28 | 14°2 | 25°48 | 27°2 | 19°27 | 22°26 | 8°32 | 18°15 | 8°32 | 8°47 | 27°16 | 22°52 | T 21 | | | | | | | | |
| W22 | 0 5 38 | 29°39'54 | 29°27 | 25°38 | 14°50 | 26°0 | 27°15 | 19°32 | 22°27 | 8°33 | 18°13 | 8°31 | 8°44 | 27°23 | 22°53 | W22 | | | | | | | | |
| T 23 | 0 9 34 | 0♎38'19 | 12♎11 | 26°46 | 15°38 | 26°12 | 27°28 | 19°38 | 22°28 | 8°35 | 18°12 | 8°30 | 8°41 | 27°30 | 22°53 | T 23 | | | | | | | | |
| F 24 | 0 13 31 | 1°36'47 | 24°41 | 27°53 | 16°28 | 26°23 | 27°41 | 19°43 | 22°29 | 8°36 | 18°11 | 8°29 | 8°37 | 27°36 | 22°53 | F 24 | | | | | | | | |
| S 25 | 0 17 28 | 2°35'17 | 6♎59 | 28°57 | 17°18 | 26°33 | 27°54 | 19°49 | 22°31 | 8°38 | 18°10 | 8°28 | 8°34 | 27°43 | 22°54 | S 25 | | | | | | | | |
| S 26 | 0 21 24 | 3°33'48 | 19°7 | 29°58 | 18°9 | 26°42 | 28°7 | 19°55 | 22°32 | 8°39 | 18°9 | 8°28 | 8°31 | 27°50 | 22°54 | S 26 | | | | | | | | |
| M27 | 0 25 21 | 4°32'22 | 1♎6 | 0♎57 | 19°1 | 26°51 | 28°19 | 20°0 | 22°33 | 8°41 | 18°8 | 8°27 | 8°28 | 27°56 | 22°54 | M27 | | | | | | | | |
| T 28 | 0 29 17 | 5°30'57 | 12°59 | 1°54 | 19°54 | 26°59 | 28°32 | 20°6 | 22°35 | 8°42 | 18°7 | 8°D27 | 8°25 | 28°3 | 22°54 | T 28 | | | | | | | | |
| W29 | 0 33 14 | 6°29'34 | 24°48 | 2°48 | 20°47 | 27°6 | 28°45 | 20°12 | 22°36 | 8°43 | 18°6 | 8°27 | 8°22 | 28°10 | 22°R54 | W29 | | | | | | | | |
| T 30 | 0 37 10 | 7°28'13 | 6♎35 | 3♎38 | 21♎40 | 27♎12 | 28♎58 | 20♎18 | 22°38 | 8°45 | 18°Y4 | 8°27 | 8°18 | 28°16 | 22°II54 | T 30 | | | | | | | | |

Delta T = 18m32s

OCTOBER 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|--------|--------|-------|--------|-------|-------|-------|------|--------|-------|------|-------|---------|------|---|---|---|---|---|---|---|-----|
| F 1 | 0 41 7 | 8♎26°54 | 18♎23 | 4♎26 | 22♎35 | 27♎17 | 29♎11 | 20♎24 | 22♎39 | 8♎46 | 18°R 3 | 8°R28 | 8♎15 | 28♎23 | 22°R54 | F 1 | | | | | | | | |
| S 2 | 0 45 3 | 9°25'37 | 0♎15 | 5°10 | 23°30 | 27°22 | 29°24 | 20°30 | 22°41 | 8°47 | 18°Y 2 | 8♎27 | 8°12 | 28°30 | 22°II54 | S 2 | | | | | | | | |
| S 3 | 0 49 0 | 10°24'22 | 12°15 | 5°50 | 24°25 | 27°25 | 29°37 | 20°36 | 22°42 | 8°49 | 18°1 | 8°27 | 8°9 | 28°36 | 22°53 | S 3 | | | | | | | | |
| M 4 | 0 52 57 | 11°23'08 | 24°26 | 6°26 | 25°21 | 27°28 | 29°50 | 20°42 | 22°44 | 8°50 | 18°0 | 8°27 | 8°6 | 28°43 | 22°53 | M 4 | | | | | | | | |
| T 5 | 0 56 53 | 12°21'56 | 6♎52 | 6°57 | 26°18 | 27°30 | 0♎3 | 20°48 | 22°46 | 8°51 | 17°59 | 8°D27 | 8°3 | 28°50 | 22°53 | T 5 | | | | | | | | |
| W 6 | 1 0 50 | 13°20'46 | 19°38 | 7°23 | 27°15 | 27°31 | 0°15 | 20°54 | 22°48 | 8°52 | 17°57 | 8°27 | 7°59 | 28°56 | 22°52 | W 6 | | | | | | | | |
| T 7 | 1 4 46 | 14°19'37 | 2♎47 | 7°44 | 28°12 | 27°R31 | 0°28 | 21°1 | 22°50 | 8°53 | 17°56 | 8°27 | 7°56 | 29°3 | 22°52 | T 7 | | | | | | | | |
| F 8 | 1 8 43 | 15°18'30 | 16°21 | 8°0 | 29°10 | 27°30 | 0°41 | 21°7 | 22°51 | 8°55 | 17°55 | 8°28 | 7°53 | 29°9 | 22°51 | F 8 | | | | | | | | |
| S 9 | 1 12 39 | 16°17'24 | 0♎23 | 8°9 | 0♎9 | 27°28 | 0°54 | 21°13 | 22°53 | 8°56 | 17°54 | 8°28 | 7°50 | 29°16 | 22°50 | S 9 | | | | | | | | |
| S 10 | 1 16 36 | 17°16'21 | 14°51 | 8°R12 | 1°8 | 27°26 | 1°6 | 21°19 | 22°55 | 8°57 | 17°53 | 8°29 | 7°47 | 29°23 | 22°50 | S 10 | | | | | | | | |
| M11 | 1 20 32 | 18°15'19 | 29°41 | 8°8 | 2°7 | 27°22 | 1°19 | 21°26 | 22°57 | 8°58 | 17°52 | 8°30 | 7°43 | 29°29 | 22°49 | M11 | | | | | | | | |
| T 12 | 1 24 29 | 19°14'19 | 14°Y47 | 7°56 | 3°7 | 27°18 | 1°32 | 21°32 | 22°59 | 8°59 | 17°50 | 8°R30 | 7°40 | 29°36 | 22°48 | T 12 | | | | | | | | |
| W13 | 1 28 25 | 20°13'21 | 0♎0 | 7°37 | 4°7 | 27°13 | 1°44 | 21°39 | 23°1 | 9°0 | 17°49 | 8°29 | 7°37 | 29°43 | 22°47 | W13 | | | | | | | | |
| T 14 | 1 32 22 | 21°12'25 | 15°11 | 7°10 | 5°8 | 27°7 | 1°57 | 21°45 | 23°4 | 9°1 | 17°48 | 8°28 | 7°34 | 29°49 | 22°46 | T 14 | | | | | | | | |
| F 15 | 1 36 19 | 22°11'31 | 0♎9 | 6°36 | 6°9 | 27°0 | 2°10 | 21°52 | 23°6 | 9°2 | 17°47 | 8°26 | 7°31 | 29°56 | 22°45 | F 15 | | | | | | | | |
| S 16 | 1 40 15 | 23°10'40 | 14°48 | 5°53 | 7°10 | 26°52 | 2°22 | 21°58 | 23°8 | 9°3 | 17°46 | 8°25 | 7°28 | 0♎3 | 22°44 | S 16 | | | | | | | | |
| S 17 | 1 44 12 | 24°9'51 | 29°3 | 5°3 | 8°12 | 26°43 | 2°35 | 22°5 | 23°10 | 9°3 | 17°45 | 8°23 | 7°24 | 0°9 | 22°43 | S 17 | | | | | | | | |
| M18 | 1 48 8 | 25°9'04 | 12♎50 | 4°6 | 9°14 | 26°34 | 2°47 | 22°12 | 23°13 | 9°4 | 17°43 | 8°22 | 7°21 | 0°16 | 22°41 | M18 | | | | | | | | |
| T 19 | 1 52 5 | 26°8'20 | 26°12 | 3°3 | 10°17 | 26°23 | 3°0 | 22°18 | 23°15 | 9°5 | 17°42 | 8°D21 | 7°18 | 0°23 | 22°40 | T 19 | | | | | | | | |
| W20 | 1 56 1 | 27°7'37 | 9♎9 | 1°55 | 11°20 | 26°12 | 3°12 | 22°25 | 23°17 | 9°6 | 17°41 | 8°22 | 7°15 | 0°29 | 22°38 | W20 | | | | | | | | |
| T 21 | 1 59 58 | 28°6'57 | 21°45 | 0°44 | 12°23 | 26°0 | 3°24 | 22°32 | 23°20 | 9°6 | 17°40 | 8°23 | 7°12 | 0°36 | 22°37 | T 21 | | | | | | | | |
| F 22 | 2 3 54 | 29°6'20 | 4♎4 | 29♎32 | 13°27 | 25°47 | 3°37 | 22°39 | 23°22 | 9°7 | 17°39 | 8°25 | 7°9 | 0°43 | 22°35 | F 22 | | | | | | | | |
| S 23 | 2 7 51 | 0♎5'44 | 16°11 | 28°20 | 14°31 | 25°33 | 3°49 | 22°46 | 23°25 | 9°8 | 17°38 | 8°26 | 7°5 | 0°49 | 22°34 | S 23 | | | | | | | | |
| S 24 | 2 11 48 | 1°5'11 | 28°8 | 27°11 | 15°35 | 25°19 | 4°1 | 22°52 | 23°27 | 9°8 | 17°37 | 8°27 | 7°2 | 0°56 | 22°32 | S 24 | | | | | | | | |
| M25 | 2 15 44 | 2°4'39 | 9♎59 | 26°7 | 16°39 | 25°4 | 4°13 | 22°59 | 23°30 | 9°9 | 17°35 | 8°R28 | 6°59 | 1°3 | 22°30 | M25 | | | | | | | | |
| T 26 | 2 19 41 | 3°4'10 | 21°47 | 25°9 | 17°44 | 24°48 | 4°26 | 23°6 | 23°33 | 9°10 | 17°34 | 8°27 | 6°56 | 1°9 | 22°29 | T 26 | | | | | | | | |
| W27 | 2 23 37 | 4°3'43 | 3♎35 | 24°19 | 18°49 | 24°32 | 4°38 | 23°13 | 23°35 | 9°10 | 17°33 | 8°25 | 6°53 | 1°16 | 22°27 | W27 | | | | | | | | |
| T 28 | 2 27 34 | 5°3'18 | 15°24 | 23°39 | 19°54 | 24°15 | 4°50 | 23°20 | 23°38 | 9°11 | 17°32 | 8°21 | 6°49 | 1°23 | 22°25 | T 28 | | | | | | | | |
| F 29 | 2 31 30 | 6°2'55 | 27°17 | 23°10 | 21°0 | 23°57 | 5°2 | 23°27 | 23°41 | 9°11 | 17°31 | 8°17 | 6°46 | 1°29 | 22°23 | F 29 | | | | | | | | |
| S 30 | 2 35 27 | 7°2'34 | 9♎15 | 22°51 | 22°6 | 23°39 | 5°14 | 23°34 | 23°43 | 9°12 | 17°30 | 8°12 | 6°43 | 1°36 | 22°21 | S 30 | | | | | | | | |
| S 31 | 2 39 23 | 8♎2'14 | 21♎20 | 22°D44 | 23♎12 | 23♎20 | 5♎26 | 23♎41 | 23♎46 | 9♎12 | 17°Y29 | 8♎7 | 6♎40 | 1♎43 | 22°II19 | S 31 | | | | | | | | |

Delta T = 18m32s

ASTRODIENST EPHEMERIS for the year 2573
geocentric

NOVEMBER 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|------|------|--------|------|---|---|---|---|---|---|---|-----|
| M 1 | 2 43 20 | 9♉ 1'57 | 3♊36 | 22♋48 | 24♌18 | 23°R 1 | 5♄37 | 23♉48 | 23♊49 | 9♋12 | 17°R28 | 8°R 2 | 6♌37 | 1♉49 | 22°R17 | M 1 | | | | | | | | |
| T 2 | 2 47 17 | 10° 1'41 | 16° 4 | 23° 3 | 25°25 | 22♋42 | 5°49 | 23°55 | 23°52 | 9°13 | 17°Y27 | 7♌58 | 6°34 | 1°56 | 22♉14 | T 2 | | | | | | | | |
| W 3 | 2 51 13 | 11° 1'27 | 28°48 | 23°28 | 26°31 | 22°22 | 6° 1 | 24° 2 | 23°55 | 9°13 | 17°26 | 7°56 | 6°30 | 2° 3 | 22°12 | W 3 | | | | | | | | |
| T 4 | 2 55 10 | 12° 1'15 | 11♋50 | 24° 3 | 27°38 | 22° 2 | 6°13 | 24° 9 | 23°58 | 9°13 | 17°24 | 7°D55 | 6°27 | 2° 9 | 22°10 | T 4 | | | | | | | | |
| F 5 | 2 59 6 | 13° 1'04 | 25°15 | 24°46 | 28°46 | 21°42 | 6°24 | 24°17 | 24° 1 | 9°13 | 17°23 | 7°56 | 6°24 | 2°16 | 22° 7 | F 5 | | | | | | | | |
| S 6 | 3 3 3 | 14° 0'55 | 9♌ 4 | 25°37 | 29°53 | 21°21 | 6°36 | 24°24 | 24° 4 | 9°14 | 17°22 | 7°57 | 6°21 | 2°23 | 22° 5 | S 6 | | | | | | | | |
| S 7 | 3 6 59 | 15° 0'47 | 23°18 | 26°36 | 1♌ 1 | 21° 0 | 6°47 | 24°31 | 24° 7 | 9°14 | 17°21 | 7°59 | 6°18 | 2°29 | 22° 3 | S 7 | | | | | | | | |
| M 8 | 3 10 56 | 16° 0'41 | 7°Y55 | 27°40 | 2° 9 | 20°40 | 6°59 | 24°38 | 24°10 | 9°14 | 17°20 | 7°R59 | 6°14 | 2°36 | 22° 0 | M 8 | | | | | | | | |
| T 9 | 3 14 52 | 17° 0'36 | 22°53 | 28°50 | 3°17 | 20°19 | 7°10 | 24°45 | 24°13 | 9°14 | 17°19 | 7°58 | 6°11 | 2°43 | 21°57 | T 9 | | | | | | | | |
| W10 | 3 18 49 | 18° 0'34 | 8♌ 3 | 0♉ 4 | 4°25 | 19°58 | 7°21 | 24°52 | 24°16 | 9°14 | 17°18 | 7°56 | 6° 8 | 2°49 | 21°55 | W10 | | | | | | | | |
| T 11 | 3 22 46 | 19° 0'33 | 23°17 | 1°23 | 5°33 | 19°37 | 7°33 | 24°59 | 24°19 | 9°R14 | 17°17 | 7°51 | 6° 5 | 2°56 | 21°52 | T 11 | | | | | | | | |
| F 12 | 3 26 42 | 20° 0'34 | 8♉24 | 2°45 | 6°42 | 19°17 | 7°44 | 25° 7 | 24°22 | 9°14 | 17°16 | 7°45 | 6° 2 | 3° 2 | 21°49 | F 12 | | | | | | | | |
| S 13 | 3 30 39 | 21° 0'37 | 23°15 | 4°10 | 7°51 | 18°56 | 7°55 | 25°14 | 24°26 | 9°14 | 17°15 | 7°38 | 5°59 | 3° 9 | 21°47 | S 13 | | | | | | | | |
| S 14 | 3 34 35 | 22° 0'43 | 7♌42 | 5°37 | 9° 0 | 18°36 | 8° 6 | 25°21 | 24°29 | 9°14 | 17°15 | 7°32 | 5°55 | 3°16 | 21°44 | S 14 | | | | | | | | |
| M15 | 3 38 32 | 23° 0'50 | 21°40 | 7° 6 | 10° 9 | 18°16 | 8°17 | 25°28 | 24°32 | 9°14 | 17°14 | 7°26 | 5°52 | 3°22 | 21°41 | M15 | | | | | | | | |
| T 16 | 3 42 28 | 24° 0'59 | 5♌ 9 | 8°37 | 11°18 | 17°56 | 8°27 | 25°35 | 24°35 | 9°14 | 17°13 | 7°22 | 5°49 | 3°29 | 21°38 | T 16 | | | | | | | | |
| W17 | 3 46 25 | 25° 1'10 | 18° 9 | 10° 9 | 12°28 | 17°37 | 8°38 | 25°43 | 24°39 | 9°13 | 17°12 | 7°20 | 5°46 | 3°36 | 21°35 | W17 | | | | | | | | |
| T 18 | 3 50 21 | 26° 1'23 | 0♉46 | 11°42 | 13°37 | 17°18 | 8°49 | 25°50 | 24°42 | 9°13 | 17°11 | 7°D20 | 5°43 | 3°42 | 21°32 | T 18 | | | | | | | | |
| F 19 | 3 54 18 | 27° 1'38 | 13° 2 | 13°16 | 14°47 | 16°59 | 8°59 | 25°57 | 24°45 | 9°13 | 17°10 | 7°21 | 5°40 | 3°49 | 21°29 | F 19 | | | | | | | | |
| S 20 | 3 58 15 | 28° 1'55 | 25° 4 | 14°51 | 15°57 | 16°41 | 9°10 | 26° 4 | 24°49 | 9°13 | 17° 9 | 7°23 | 5°36 | 3°56 | 21°26 | S 20 | | | | | | | | |
| S 21 | 4 2 11 | 29° 2'14 | 6♌57 | 16°26 | 17° 7 | 16°24 | 9°20 | 26°11 | 24°52 | 9°12 | 17° 8 | 7°R23 | 5°33 | 4° 2 | 21°23 | S 21 | | | | | | | | |
| M22 | 4 6 8 | 0♉2'35 | 18°44 | 18° 1 | 18°17 | 16° 7 | 9°31 | 26°19 | 24°55 | 9°12 | 17° 8 | 7°22 | 5°30 | 4° 9 | 21°20 | M22 | | | | | | | | |
| T 23 | 4 10 4 | 1° 2'58 | 0♉31 | 19°37 | 19°28 | 15°50 | 9°41 | 26°26 | 24°59 | 9°12 | 17° 7 | 7°19 | 5°27 | 4°16 | 21°17 | T 23 | | | | | | | | |
| W24 | 4 14 1 | 2° 3'22 | 12°20 | 21°13 | 20°38 | 15°34 | 9°51 | 26°33 | 25° 2 | 9°11 | 17° 6 | 7°14 | 5°24 | 4°22 | 21°14 | W24 | | | | | | | | |
| T 25 | 4 17 57 | 3° 3'49 | 24°14 | 22°49 | 21°49 | 15°19 | 10° 1 | 26°40 | 25° 6 | 9°11 | 17° 5 | 7° 6 | 5°20 | 4°29 | 21°11 | T 25 | | | | | | | | |
| F 26 | 4 21 54 | 4° 4'17 | 6♌15 | 24°25 | 23° 0 | 15° 4 | 10°11 | 26°47 | 25° 9 | 9°10 | 17° 4 | 6°56 | 5°17 | 4°36 | 21° 7 | F 26 | | | | | | | | |
| S 27 | 4 25 50 | 5° 4'46 | 18°24 | 26° 0 | 24°11 | 14°51 | 10°21 | 26°55 | 25°13 | 9°10 | 17° 4 | 6°45 | 5°14 | 4°42 | 21° 4 | S 27 | | | | | | | | |
| S 28 | 4 29 47 | 6° 5'17 | 0♉41 | 27°36 | 25°22 | 14°38 | 10°31 | 27° 2 | 25°16 | 9° 9 | 17° 3 | 6°33 | 5°11 | 4°49 | 21° 1 | S 28 | | | | | | | | |
| M29 | 4 33 44 | 7° 5'49 | 13° 9 | 29°12 | 26°33 | 14°25 | 10°40 | 27° 9 | 25°20 | 9° 9 | 17° 2 | 6°22 | 5° 8 | 4°56 | 20°57 | M29 | | | | | | | | |
| T 30 | 4 37 40 | 8♌ 6'23 | 25♌48 | 0♉48 | 27♌44 | 14♌14 | 10♌50 | 27♉16 | 25♊23 | 9♋ 8 | 17°Y 2 | 6♌13 | 5♌ 5 | 5♉ 2 | 20♉54 | T 30 | | | | | | | | |

Delta T = 18m32s

DECEMBER 2573

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|------|------|--------|------|---|---|---|---|---|---|---|-----|
| W 1 | 4 41 37 | 9♉ 6'58 | 8♋39 | 2♌23 | 28♌56 | 14°R 3 | 10♌59 | 27♉23 | 25♊27 | 9°R 7 | 17°R 1 | 6°R 6 | 5♌ 1 | 5♉ 9 | 20°R51 | W 1 | | | | | | | | |
| T 2 | 4 45 33 | 10° 7'34 | 21°43 | 3°58 | 0♉ 7 | 13♌53 | 11° 9 | 27°30 | 25°30 | 9♋ 7 | 17°Y 0 | 6♌ 2 | 4°58 | 5°16 | 20♉47 | T 2 | | | | | | | | |
| F 3 | 4 49 30 | 11° 8'11 | 5♌ 4 | 5°34 | 1°19 | 13°43 | 11°18 | 27°37 | 25°34 | 9° 6 | 17° 0 | 6° 1 | 4°55 | 5°22 | 20°44 | F 3 | | | | | | | | |
| S 4 | 4 53 26 | 12° 8'50 | 18°43 | 7° 9 | 2°30 | 13°35 | 11°27 | 27°44 | 25°38 | 9° 5 | 16°59 | 6°D 1 | 4°52 | 5°29 | 20°41 | S 4 | | | | | | | | |
| S 5 | 4 57 23 | 13° 9'29 | 2°Y42 | 8°44 | 3°42 | 13°28 | 11°36 | 27°51 | 25°41 | 9° 4 | 16°59 | 6°R 1 | 4°49 | 5°36 | 20°37 | S 5 | | | | | | | | |
| M 6 | 5 1 19 | 14°10'09 | 17° 0 | 10°18 | 4°54 | 13°21 | 11°45 | 27°59 | 25°45 | 9° 4 | 16°58 | 6° 1 | 4°46 | 5°42 | 20°34 | M 6 | | | | | | | | |
| T 7 | 5 5 16 | 15°10'50 | 1♌37 | 11°53 | 6° 6 | 13°15 | 11°54 | 28° 6 | 25°48 | 9° 3 | 16°57 | 5°58 | 4°42 | 5°49 | 20°30 | T 7 | | | | | | | | |
| W 8 | 5 9 13 | 16°11'33 | 16°28 | 13°28 | 7°18 | 13°10 | 12° 3 | 28°13 | 25°52 | 9° 2 | 16°57 | 5°53 | 4°39 | 5°56 | 20°27 | W 8 | | | | | | | | |
| T 9 | 5 13 9 | 17°12'16 | 1♉27 | 15° 2 | 8°30 | 13° 5 | 12°11 | 28°19 | 25°56 | 9° 1 | 16°56 | 5°45 | 4°36 | 6° 2 | 20°24 | T 9 | | | | | | | | |
| F 10 | 5 17 6 | 18°13'01 | 16°25 | 16°37 | 9°42 | 13° 2 | 12°20 | 28°26 | 25°59 | 9° 0 | 16°56 | 5°35 | 4°33 | 6° 9 | 20°20 | F 10 | | | | | | | | |
| S 11 | 5 21 2 | 19°13'47 | 1♌12 | 18°11 | 10°55 | 12°59 | 12°28 | 28°33 | 26° 3 | 8°59 | 16°55 | 5°24 | 4°30 | 6°16 | 20°17 | S 11 | | | | | | | | |
| S 12 | 5 24 59 | 20°14'34 | 15°40 | 19°45 | 12° 7 | 12°57 | 12°36 | 28°40 | 26° 7 | 8°58 | 16°55 | 5°13 | 4°26 | 6°22 | 20°13 | S 12 | | | | | | | | |
| M13 | 5 28 55 | 21°15'22 | 29°43 | 21°19 | 13°20 | 12°56 | 12°44 | 28°47 | 26°10 | 8°57 | 16°55 | 5° 2 | 4°23 | 6°29 | 20°10 | M13 | | | | | | | | |
| T 14 | 5 32 52 | 22°16'12 | 13♌17 | 22°53 | 14°32 | 12°D56 | 12°52 | 28°54 | 26°14 | 8°56 | 16°54 | 4°55 | 4°20 | 6°36 | 20° 6 | T 14 | | | | | | | | |
| W15 | 5 36 48 | 23°17'03 | 26°24 | 24°28 | 15°45 | 12°57 | 13° 0 | 29° 1 | 26°18 | 8°55 | 16°54 | 4°49 | 4°17 | 6°42 | 20° 3 | W15 | | | | | | | | |
| T 16 | 5 40 45 | 24°17'55 | 9♉ 4 | 26° 2 | 16°58 | 12°58 | 13° 8 | 29° 8 | 26°21 | 8°54 | 16°54 | 4°47 | 4°14 | 6°49 | 19°59 | T 16 | | | | | | | | |
| F 17 | 5 44 42 | 25°18'48 | 21°24 | 27°36 | 18°11 | 13° 0 | 13°15 | 29°14 | 26°25 | 8°53 | 16°53 | 4°D46 | 4°11 | 6°56 | 19°56 | F 17 | | | | | | | | |
| S 18 | 5 48 38 | 26°19'43 | 3♌27 | 29°10 | 19°23 | 13° 3 | 13°23 | 29°21 | 26°29 | 8°52 | 16°53 | 4°R46 | 4° 7 | 7° 2 | 19°52 | S 18 | | | | | | | | |
| S 19 | 5 52 35 | 27°20'39 | 15°19 | 0♉44 | 20°36 | 13° 7 | 13°30 | 29°28 | 26°32 | 8°51 | 16°53 | 4°46 | 4° 4 | 7° 9 | 19°49 | S 19 | | | | | | | | |
| M20 | 5 56 31 | 28°21'36 | 27° 7 | 2°19 | 21°49 | 13°11 | 13°37 | 29°34 | 26°36 | 8°50 | 16°52 | 4°44 | 4° 1 | 7°16 | 19°46 | M20 | | | | | | | | |
| T 21 | 6 0 28 | 29°22'34 | 8♉54 | 3°53 | 23° 2 | 13°16 | 13°44 | 29°41 | 26°40 | 8°48 | 16°52 | 4°40 | 3°58 | 7°22 | 19°42 | T 21 | | | | | | | | |
| W22 | 6 4 24 | 0♉23'33 | 20°46 | 5°28 | 24°16 | 13°22 | 13°51 | 29°47 | 26°43 | 8°47 | 16°52 | 4°33 | 3°55 | 7°29 | 19°39 | W22 | | | | | | | | |
| T 23 | 6 8 21 | 1°24'33 | 2♌46 | 7° 2 | 25°29 | 13°28 | 13°58 | 29°54 | 26°47 | 8°46 | 16°52 | 4°23 | 3°52 | 7°36 | 19°35 | T 23 | | | | | | | | |
| F 24 | 6 12 17 | 2°25'34 | 14°56 | 8°37 | 26°42 | 13°36 | 14° 4 | 0♉ 0 | 26°51 | 8°45 | 16°52 | 4°10 | 3°48 | 7°42 | 19°32 | F 24 | | | | | | | | |
| S 25 | 6 16 14 | 3°26'36 | 27°18 | 10°12 | 27°56 | 13°44 | 14°11 | 0° 7 | 26°54 | 8°43 | 16°51 | 3°56 | 3°45 | 7°49 | 19°29 | S 25 | | | | | | | | |
| S 26 | 6 20 11 | 4°27'39 | 9♌52 | 11°47 | 29° 9 | 13°52 | 14°17 | 0°13 | 26°58 | 8°42 | 16°51 | 3°41 | 3°42 | 7°56 | 19°25 | S 26 | | | | | | | | |
| M27 | 6 24 7 | 5°28'42 | 22°38 | 13°22 | 0♉22 | 14° 1 | 14°23 | 0°20 | 27° 2 | 8°41 | 16°51 | 3°28 | 3°39 | 8° 2 | 19°22 | M27 | | | | | | | | |
| T 28 | 6 28 4 | 6°29'46 | 5♌36 | 14°57 | 1°36 | 14°11 | 14°29 | 0°26 | 27° 5 | 8°39 | 16°51 | 3°16 | 3°36 | 8° 9 | 19°19 | T 28 | | | | | | | | |
| W29 | 6 32 0 | 7°30'50 | 18°45 | 16°32 | 2°49 | 14°22 | 14°35 | 0°32 | 27° 9 | 8°38 | 16°51 | 3° 7 | 3°32 | 8°16 | 19°16 | W29 | | | | | | | | |
| T 30 | 6 35 57 | 8°31'55 | 2♌ 4 | 18° 7 | 4° 3 | 14°33 | 14°41 | 0°38 | 27°12 | 8°36 | 16°51 | 3° 1 | 3°29 | 8°22 | 19°12 | T 30 | | | | | | | | |
| F 31 | 6 39 53 | 9♌33'00 | 15♌33 | 19♌42 | 5♌17 | 14♌45 | 14♌46 | 0♉45 | 27♌16 | 8♋35 | 16°D51 | 2♌58 | 3♌26 | 8♉29 | 19♉ 9 | F 31 | | | | | | | | |

Delta T = 18m32s

ASTRODIENST EPHEMERIS for the year 2574
geocentric

JANUARY 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|---------|--------|--------|--------|--------|-------|--------|-------|--------|-------|-------|--------|---------|------|-----|
| S 1 | 6 43 50 | 10♁34'05 | 29♁14 | 21♁18 | 6♁30 | 14♁58 | 14♁51 | 0♁51 | 27♁20 | 8♁R34 | 16♁V51 | 2♁D58 | 3♁Ω23 | 8♁M36 | 19♁R 6 | S 1 | |
| S 2 | 6 47 47 | 11°35'10 | 13♁V 7 | 22°53 | 7°44 | 15°11 | 14°57 | 0°57 | 27°23 | 8♁Ω32 | 16°51 | 2♁R58 | 3°20 | 8°42 | 19♁II 3 | S 2 | |
| M 3 | 6 51 43 | 12°36'15 | 27°12 | 24°28 | 8°58 | 15°24 | 15° 2 | 1° 3 | 27°27 | 8°31 | 16°51 | 2♁Ω57 | 3°17 | 8°49 | 19° 0 | M 3 | |
| T 4 | 6 55 40 | 13°37'21 | 11♁Ω29 | 26° 3 | 10°11 | 15°38 | 15° 6 | 1° 9 | 27°30 | 8°29 | 16°51 | 2°55 | 3°13 | 8°56 | 18°57 | T 4 | |
| W 5 | 6 59 36 | 14°38'26 | 25°55 | 27°38 | 11°25 | 15°53 | 15°11 | 1°15 | 27°34 | 8°28 | 16°51 | 2°50 | 3°10 | 9° 2 | 18°54 | W 5 | |
| T 6 | 7 3 33 | 15°39'31 | 10♁II28 | 29°13 | 12°39 | 16° 9 | 15°16 | 1°20 | 27°38 | 8°26 | 16°51 | 2°42 | 3° 7 | 9° 9 | 18°51 | T 6 | |
| F 7 | 7 7 29 | 16°40'37 | 25° 1 | 0♁Ω47 | 13°53 | 16°24 | 15°20 | 1°26 | 27°41 | 8°25 | 16°52 | 2°31 | 3° 4 | 9°16 | 18°48 | F 7 | |
| S 8 | 7 11 26 | 17°41'43 | 9♁Ω27 | 2°21 | 15° 7 | 16°41 | 15°24 | 1°32 | 27°45 | 8°23 | 16°52 | 2°20 | 3° 1 | 9°22 | 18°45 | S 8 | |
| S 9 | 7 15 22 | 18°42'49 | 23°39 | 3°54 | 16°21 | 16°57 | 15°28 | 1°38 | 27°48 | 8°22 | 16°52 | 2° 8 | 2°58 | 9°29 | 18°42 | S 9 | |
| M10 | 7 19 19 | 19°43'55 | 7♁Ω33 | 5°26 | 17°35 | 17°15 | 15°32 | 1°43 | 27°52 | 8°20 | 16°52 | 1°57 | 2°54 | 9°36 | 18°39 | M10 | |
| T 11 | 7 23 16 | 20°45'01 | 21° 3 | 6°58 | 18°49 | 17°32 | 15°36 | 1°49 | 27°55 | 8°18 | 16°52 | 1°48 | 2°51 | 9°43 | 18°36 | T 11 | |
| W12 | 7 27 12 | 21°46'07 | 4♁V 9 | 8°28 | 20° 3 | 17°51 | 15°39 | 1°54 | 27°58 | 8°17 | 16°53 | 1°42 | 2°48 | 9°49 | 18°34 | W12 | |
| T 13 | 7 31 9 | 22°47'14 | 16°52 | 9°56 | 21°17 | 18° 9 | 15°43 | 2° 0 | 28° 2 | 8°15 | 16°53 | 1°39 | 2°45 | 9°56 | 18°31 | T 13 | |
| F 14 | 7 35 5 | 23°48'20 | 29°14 | 11°23 | 22°31 | 18°28 | 15°46 | 2° 5 | 28° 5 | 8°14 | 16°53 | 1°D38 | 2°42 | 10° 3 | 18°28 | F 14 | |
| S 15 | 7 39 2 | 24°49'27 | 11♁Ω20 | 12°47 | 23°45 | 18°48 | 15°49 | 2°10 | 28° 9 | 8°12 | 16°54 | 1°38 | 2°38 | 10° 9 | 18°26 | S 15 | |
| S 16 | 7 42 58 | 25°50'35 | 23°15 | 14° 8 | 25° 0 | 19° 8 | 15°51 | 2°16 | 28°12 | 8°10 | 16°54 | 1°R39 | 2°35 | 10°16 | 18°23 | S 16 | |
| M17 | 7 46 55 | 26°51'42 | 5♁M 4 | 15°27 | 26°14 | 19°28 | 15°54 | 2°21 | 28°15 | 8° 9 | 16°54 | 1°38 | 2°32 | 10°23 | 18°21 | M17 | |
| T 18 | 7 50 51 | 27°52'49 | 16°53 | 16°41 | 27°28 | 19°49 | 15°56 | 2°26 | 28°19 | 8° 7 | 16°55 | 1°36 | 2°29 | 10°29 | 18°18 | T 18 | |
| W19 | 7 54 48 | 28°53'57 | 28°47 | 17°51 | 28°42 | 20°10 | 15°59 | 2°31 | 28°22 | 8° 5 | 16°55 | 1°32 | 2°26 | 10°36 | 18°16 | W19 | |
| T 20 | 7 58 45 | 29°55'05 | 10♁V51 | 18°56 | 29°57 | 20°32 | 16° 1 | 2°36 | 28°25 | 8° 4 | 16°56 | 1°25 | 2°23 | 10°43 | 18°13 | T 20 | |
| F 21 | 8 2 41 | 0♁Ω56'12 | 23° 8 | 19°55 | 1♁Ω11 | 20°54 | 16° 3 | 2°41 | 28°29 | 8° 2 | 16°56 | 1°16 | 2°19 | 10°49 | 18°11 | F 21 | |
| S 22 | 8 6 38 | 1°57'20 | 5♁Ω40 | 20°47 | 2°25 | 21°16 | 16° 4 | 2°46 | 28°32 | 8° 0 | 16°57 | 1° 5 | 2°16 | 10°56 | 18° 9 | S 22 | |
| S 23 | 8 10 34 | 2°58'27 | 18°29 | 21°31 | 3°40 | 21°39 | 16° 6 | 2°50 | 28°35 | 7°59 | 16°57 | 0°54 | 2°13 | 11° 3 | 18° 7 | S 23 | |
| M24 | 8 14 31 | 3°59'34 | 1♁Ω34 | 22° 7 | 4°54 | 22° 1 | 16° 7 | 2°55 | 28°38 | 7°57 | 16°58 | 0°43 | 2°10 | 11° 9 | 18° 5 | M24 | |
| T 25 | 8 18 27 | 5° 0'40 | 14°54 | 22°34 | 6° 9 | 22°25 | 16° 8 | 3° 0 | 28°41 | 7°55 | 16°58 | 0°34 | 2° 7 | 11°16 | 18° 2 | T 25 | |
| W26 | 8 22 24 | 6° 1'46 | 28°28 | 22°50 | 7°23 | 22°48 | 16° 9 | 3° 4 | 28°44 | 7°53 | 16°59 | 0°27 | 2° 4 | 11°23 | 18° 0 | W26 | |
| T 27 | 8 26 20 | 7° 2'52 | 12♁V11 | 22°R55 | 8°37 | 23°12 | 16°10 | 3° 9 | 28°48 | 7°52 | 16°59 | 0°23 | 2° 0 | 11°29 | 17°59 | T 27 | |
| F 28 | 8 30 17 | 8° 3'56 | 26° 3 | 22°49 | 9°52 | 23°37 | 16°10 | 3°13 | 28°51 | 7°50 | 17° 0 | 0°D22 | 1°57 | 11°36 | 17°57 | F 28 | |
| S 29 | 8 34 14 | 9° 5'00 | 10♁V 0 | 22°31 | 11° 6 | 24° 1 | 16°11 | 3°17 | 28°54 | 7°48 | 17° 1 | 0°22 | 1°54 | 11°43 | 17°55 | S 29 | |
| S 30 | 8 38 10 | 10° 6'03 | 24° 2 | 22° 2 | 12°21 | 24°26 | 16°R11 | 3°21 | 28°57 | 7°47 | 17° 1 | 0°23 | 1°51 | 11°49 | 17°53 | S 30 | |
| M31 | 8 42 7 | 11° 7'05 | 8♁V 7 | 21°Ω21 | 13°Ω35 | 24°Ω51 | 16°Ω11 | 3°Ω25 | 29°Ω 0 | 7°Ω45 | 17°V 2 | 0°R24 | 1°Ω48 | 11°M56 | 17°II51 | M31 | |

Delta T = 18m33s

FEBRUARY 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|-------|--------|---------|------|-----|
| T 1 | 8 46 3 | 12°8'06 | 22♁V15 | 20°R31 | 14♁Ω50 | 25♁V17 | 16°R10 | 3♁V29 | 29♁V 3 | 7°R43 | 17°V 3 | 0°R23 | 1♁Ω44 | 12♁M 3 | 17°R50 | T 1 | |
| W 2 | 8 50 0 | 13° 9'06 | 6♁II24 | 19°Ω31 | 16° 4 | 25°43 | 16°Ω10 | 3°33 | 29° 5 | 7°Ω42 | 17° 4 | 0°Ω21 | 1°41 | 12° 9 | 17°II48 | W 2 | |
| T 3 | 8 53 56 | 14°10'06 | 20°32 | 18°24 | 17°19 | 26° 9 | 16° 9 | 3°37 | 29° 8 | 7°40 | 17° 4 | 0°17 | 1°38 | 12°16 | 17°47 | T 3 | |
| F 4 | 8 57 53 | 15°11'04 | 4♁Ω36 | 17°12 | 18°33 | 26°35 | 16° 9 | 3°41 | 29°11 | 7°38 | 17° 5 | 0°10 | 1°35 | 12°23 | 17°45 | F 4 | |
| S 5 | 9 1 49 | 16°12'01 | 18°33 | 15°57 | 19°48 | 27° 1 | 16° 8 | 3°45 | 29°14 | 7°37 | 17° 6 | 0° 3 | 1°32 | 12°29 | 17°44 | S 5 | |
| S 6 | 9 5 46 | 17°12'57 | 2♁Ω19 | 14°41 | 21° 2 | 27°28 | 16° 6 | 3°48 | 29°17 | 7°35 | 17° 7 | 29°M55 | 1°29 | 12°36 | 17°43 | S 6 | |
| M 7 | 9 9 43 | 18°13'52 | 15°50 | 13°27 | 22°17 | 27°55 | 16° 5 | 3°52 | 29°19 | 7°33 | 17° 8 | 29°48 | 1°25 | 12°43 | 17°41 | M 7 | |
| T 8 | 9 13 39 | 19°14'46 | 29° 4 | 12°16 | 23°32 | 28°22 | 16° 3 | 3°55 | 29°22 | 7°32 | 17° 8 | 29°43 | 1°22 | 12°49 | 17°40 | T 8 | |
| W 9 | 9 17 36 | 20°15'40 | 11♁V59 | 11°10 | 24°46 | 28°50 | 16° 2 | 3°59 | 29°25 | 7°30 | 17° 9 | 29°39 | 1°19 | 12°56 | 17°39 | W 9 | |
| T 10 | 9 21 32 | 21°16'32 | 24°36 | 10°11 | 26° 1 | 29°17 | 16° 0 | 4° 2 | 29°27 | 7°28 | 17°10 | 29°D38 | 1°16 | 13° 3 | 17°38 | T 10 | |
| F 11 | 9 25 29 | 22°17'23 | 6♁Ω56 | 9°19 | 27°15 | 29°45 | 15°58 | 4° 5 | 29°30 | 7°27 | 17°11 | 29°38 | 1°13 | 13° 9 | 17°37 | F 11 | |
| S 12 | 9 29 25 | 23°18'14 | 19° 3 | 8°35 | 28°30 | 0♁II13 | 15°55 | 4° 8 | 29°33 | 7°25 | 17°12 | 29°39 | 1° 9 | 13°16 | 17°36 | S 12 | |
| S 13 | 9 33 22 | 24°19'04 | 0♁M59 | 8° 0 | 29°45 | 0°42 | 15°53 | 4°11 | 29°35 | 7°23 | 17°13 | 29°41 | 1° 6 | 13°23 | 17°36 | S 13 | |
| M14 | 9 37 18 | 25°19'53 | 12°50 | 7°34 | 0♁Ω59 | 1°10 | 15°50 | 4°14 | 29°37 | 7°22 | 17°14 | 29°43 | 1° 3 | 13°30 | 17°35 | M14 | |
| T 15 | 9 41 15 | 26°20'41 | 24°40 | 7°15 | 2°14 | 1°39 | 15°47 | 4°17 | 29°40 | 7°20 | 17°15 | 29°R43 | 1° 0 | 13°36 | 17°34 | T 15 | |
| W16 | 9 45 12 | 27°21'28 | 6♁V35 | 7° 5 | 3°29 | 2° 8 | 15°44 | 4°19 | 29°42 | 7°19 | 17°16 | 29°43 | 0°57 | 13°43 | 17°34 | W16 | |
| T 17 | 9 49 8 | 28°22'15 | 18°39 | 7°D 3 | 4°43 | 2°37 | 15°41 | 4°22 | 29°45 | 7°17 | 17°17 | 29°41 | 0°54 | 13°50 | 17°33 | T 17 | |
| F 18 | 9 53 5 | 29°23'00 | 0♁Ω58 | 7° 8 | 5°58 | 3° 6 | 15°38 | 4°24 | 29°47 | 7°16 | 17°18 | 29°38 | 0°50 | 13°56 | 17°33 | F 18 | |
| S 19 | 9 57 1 | 0♁V23'45 | 13°34 | 7°20 | 7°12 | 3°35 | 15°34 | 4°27 | 29°49 | 7°14 | 17°19 | 29°34 | 0°47 | 14° 3 | 17°32 | S 19 | |
| S 20 | 10 0 58 | 1°24'28 | 26°30 | 7°38 | 8°27 | 4° 5 | 15°30 | 4°29 | 29°51 | 7°12 | 17°20 | 29°29 | 0°44 | 14°10 | 17°32 | S 20 | |
| M21 | 10 4 54 | 2°25'11 | 9♁Ω47 | 8° 2 | 9°42 | 4°35 | 15°26 | 4°31 | 29°54 | 7°11 | 17°21 | 29°24 | 0°41 | 14°16 | 17°32 | M21 | |
| T 22 | 10 8 51 | 3°25'52 | 23°25 | 8°31 | 10°57 | 5° 4 | 15°22 | 4°33 | 29°56 | 7° 9 | 17°22 | 29°20 | 0°38 | 14°23 | 17°32 | T 22 | |
| W23 | 10 12 47 | 4°26'31 | 7♁V20 | 9° 6 | 12°11 | 5°35 | 15°18 | 4°35 | 29°58 | 7° 8 | 17°23 | 29°18 | 0°35 | 14°30 | 17°D32 | W23 | |
| T 24 | 10 16 44 | 5°27'09 | 21°31 | 9°45 | 13°26 | 6° 5 | 15°13 | 4°37 | 29°59 | 7° 7 | 17°24 | 29°16 | 0°31 | 14°36 | 17°32 | T 24 | |
| F 25 | 10 20 40 | 6°27'46 | 5♁V51 | 10°28 | 14°41 | 6°35 | 15° 9 | 4°39 | 0♁Ω 2 | 7° 5 | 17°26 | 29°D16 | 0°28 | 14°43 | 17°32 | F 25 | |
| S 26 | 10 24 37 | 7°28'21 | 20°15 | 11°15 | 15°55 | 7° 6 | 15° 4 | 4°41 | 0° 4 | 7° 4 | 17°27 | 29°17 | 0°25 | 14°50 | 17°32 | S 26 | |
| S 27 | 10 28 34 | 8°28'55 | 4♁Ω40 | 12° 6 | 17°10 | 7°36 | 14°59 | 4°42 | 0° 6 | 7° 2 | 17°28 | 29°18 | 0°22 | 14°56 | 17°32 | S 27 | |
| M28 | 10 32 30 | 9♁V29'26 | 19♁V 1 | 13°Ω 0 | 18°Ω25 | 8°II 7 | 14°Ω54 | 4°Ω44 | 0♁Ω 7 | 7°Ω 1 | 17°V29 | 29°M20 | 0°Ω19 | 15°M 3 | 17°II32 | M28 | |

Delta T = 18m33s

ASTRODIENST EPHEMERIS for the year 2574
geocentric

MARCH 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|-----------|--------|--------|--------|-------|--------|------|------|-------|--------|--------|-------|-------|-------|------|
| T 1 | 10 36 27 | 10♌29°56 | 3♈15 | 13♋57 | 19♋39 | 8♈38 | 14°R49 | 4♌45 | 0♃ 9 | 7°R 0 | 17°P30 | 29♎21 | 0♌15 | 15♎10 | 17♈33 | T 1 |
| W 2 | 10 40 23 | 11°30'25 | 17°20 | 14°57 | 20°54 | 9° 9 | 14♌43 | 4°47 | 0°11 | 6♌58 | 17°32 | 29°R21 | 0°12 | 15°16 | 17°33 | W 2 |
| T 3 | 10 44 20 | 12°30'51 | 1♉15 | 15°59 | 22° 9 | 9°41 | 14°38 | 4°48 | 0°13 | 6°57 | 17°33 | 29°20 | 0° 9 | 15°23 | 17°34 | T 3 |
| F 4 | 10 48 16 | 13°31'15 | 14°58 | 17° 4 | 23°23 | 10°12 | 14°32 | 4°49 | 0°14 | 6°56 | 17°34 | 29°18 | 0° 6 | 15°30 | 17°34 | F 4 |
| S 5 | 10 52 13 | 14°31'38 | 28°29 | 18°11 | 24°38 | 10°43 | 14°26 | 4°50 | 0°16 | 6°54 | 17°35 | 29°16 | 0° 3 | 15°36 | 17°35 | S 5 |
| S 6 | 10 56 9 | 15°31'58 | 11♎47 | 19°20 | 25°52 | 11°15 | 14°21 | 4°51 | 0°18 | 6°53 | 17°36 | 29°14 | 29♎59 | 15°43 | 17°36 | S 6 |
| M 7 | 11 0 6 | 16°32'17 | 24°52 | 20°32 | 27° 7 | 11°47 | 14°15 | 4°52 | 0°19 | 6°52 | 17°38 | 29°13 | 29°56 | 15°50 | 17°37 | M 7 |
| T 8 | 11 4 3 | 17°32'34 | 7♎43 | 21°45 | 28°22 | 12°19 | 14° 8 | 4°52 | 0°20 | 6°51 | 17°39 | 29°11 | 29°53 | 15°57 | 17°37 | T 8 |
| W 9 | 11 7 59 | 18°32'49 | 20°20 | 23° 0 | 29°36 | 12°50 | 14° 2 | 4°53 | 0°22 | 6°49 | 17°40 | 29°11 | 29°50 | 16° 3 | 17°38 | W 9 |
| T 10 | 11 11 56 | 19°33'03 | 2♌45 | 24°16 | 0♋51 | 13°23 | 13°56 | 4°53 | 0°23 | 6°48 | 17°42 | 29°D10 | 29°47 | 16°10 | 17°39 | T 10 |
| F 11 | 11 15 52 | 20°33'15 | 14°57 | 25°34 | 2° 6 | 13°55 | 13°49 | 4°54 | 0°25 | 6°47 | 17°43 | 29°11 | 29°44 | 16°17 | 17°40 | F 11 |
| S 12 | 11 19 49 | 21°33'25 | 27° 0 | 26°54 | 3°20 | 14°27 | 13°42 | 4°54 | 0°26 | 6°46 | 17°44 | 29°11 | 29°41 | 16°23 | 17°42 | S 12 |
| S 13 | 11 23 45 | 22°33'34 | 8♎55 | 28°15 | 4°35 | 14°59 | 13°36 | 4°54 | 0°27 | 6°45 | 17°46 | 29°12 | 29°37 | 16°30 | 17°43 | S 13 |
| M14 | 11 27 42 | 23°33'41 | 20°46 | 29°38 | 5°50 | 15°32 | 13°29 | 4°54 | 0°28 | 6°44 | 17°47 | 29°13 | 29°34 | 16°37 | 17°44 | M14 |
| T 15 | 11 31 38 | 24°33'46 | 2♌37 | 1♋ 2 | 7° 4 | 16° 4 | 13°22 | 4°54 | 0°29 | 6°43 | 17°48 | 29°13 | 29°31 | 16°43 | 17°46 | T 15 |
| W16 | 11 35 35 | 25°33'50 | 14°31 | 2°27 | 8°19 | 16°37 | 13°15 | 4°54 | 0°30 | 6°42 | 17°50 | 29°14 | 29°28 | 16°50 | 17°47 | W16 |
| T 17 | 11 39 32 | 26°33'53 | 26°34 | 3°54 | 9°33 | 17°10 | 13° 8 | 4°54 | 0°31 | 6°41 | 17°51 | 29°R14 | 29°25 | 16°57 | 17°49 | T 17 |
| F 18 | 11 43 28 | 27°33'53 | 8♌50 | 5°21 | 10°48 | 17°42 | 13° 1 | 4°53 | 0°32 | 6°40 | 17°52 | 29°14 | 29°21 | 17° 3 | 17°50 | F 18 |
| S 19 | 11 47 25 | 28°33'53 | 21°24 | 6°51 | 12° 3 | 18°15 | 12°53 | 4°53 | 0°33 | 6°39 | 17°54 | 29°14 | 29°18 | 17°10 | 17°52 | S 19 |
| S 20 | 11 51 21 | 29°33'50 | 4♋19 | 8°21 | 13°17 | 18°48 | 12°46 | 4°52 | 0°34 | 6°38 | 17°55 | 29°D14 | 29°15 | 17°17 | 17°53 | S 20 |
| M21 | 11 55 18 | 0°P34'46 | 17°37 | 9°53 | 14°32 | 19°21 | 12°39 | 4°52 | 0°35 | 6°37 | 17°57 | 29°14 | 29°12 | 17°23 | 17°55 | M21 |
| T 22 | 11 59 14 | 1°33'41 | 1♋21 | 11°26 | 15°46 | 19°54 | 12°31 | 4°51 | 0°36 | 6°36 | 17°58 | 29°14 | 29° 9 | 17°30 | 17°57 | T 22 |
| W23 | 12 3 11 | 2°33'33 | 15°29 | 13° 0 | 17° 1 | 20°28 | 12°24 | 4°50 | 0°36 | 6°36 | 17°59 | 29°14 | 29° 6 | 17°37 | 17°59 | W23 |
| T 24 | 12 7 7 | 3°33'24 | 29°57 | 14°35 | 18°16 | 21° 1 | 12°16 | 4°49 | 0°37 | 6°35 | 18° 1 | 29°R14 | 29° 2 | 17°44 | 18° 1 | T 24 |
| F 25 | 12 11 4 | 4°33'12 | 14°P41 | 16°11 | 19°30 | 21°34 | 12° 8 | 4°48 | 0°37 | 6°34 | 18° 2 | 29°14 | 28°59 | 17°50 | 18° 3 | F 25 |
| S 26 | 12 15 0 | 5°32'59 | 29°33 | 17°49 | 20°45 | 22° 8 | 12° 1 | 4°47 | 0°38 | 6°33 | 18° 4 | 29°14 | 28°56 | 17°57 | 18° 5 | S 26 |
| S 27 | 12 18 57 | 6°32'44 | 14♌25 | 19°28 | 21°59 | 22°41 | 11°53 | 4°46 | 0°38 | 6°33 | 18° 5 | 29°13 | 28°53 | 18° 4 | 18° 7 | S 27 |
| M28 | 12 22 54 | 7°32'26 | 29°10 | 21° 8 | 23°14 | 23°15 | 11°45 | 4°44 | 0°39 | 6°32 | 18° 7 | 29°12 | 28°50 | 18°10 | 18°10 | M28 |
| T 29 | 12 26 50 | 8°32'07 | 13♈42 | 22°50 | 24°28 | 23°49 | 11°38 | 4°43 | 0°39 | 6°31 | 18° 8 | 29°11 | 28°46 | 18°17 | 18°12 | T 29 |
| W30 | 12 30 47 | 9°31'45 | 27°57 | 24°32 | 25°43 | 24°23 | 11°30 | 4°41 | 0°40 | 6°31 | 18° 9 | 29°10 | 28°43 | 18°24 | 18°14 | W30 |
| T 31 | 12 34 43 | 10°P31'21 | 11♉52 | 26°P16 | 26°P57 | 24♈56 | 11°22 | 4♌40 | 0♃40 | 6♌30 | 18°P11 | 29°D10 | 28♎40 | 18♎30 | 18♈17 | T 31 |

Delta T = 18m33s

APRIL 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|-----------|-------|-------|-------|-------|--------|-------|------|-------|--------|--------|-------|-------|-------|------|
| F 1 | 12 38 40 | 11°P30'54 | 25♉27 | 28♋ 2 | 28♋12 | 25♈30 | 11°R14 | 4°R38 | 0♃40 | 6°R30 | 18°P12 | 29♎11 | 28♎37 | 18♎37 | 18♈19 | F 1 |
| S 2 | 12 42 36 | 12°30'26 | 8♎43 | 29°48 | 29°26 | 26° 4 | 11♌ 6 | 4♌36 | 0°40 | 6♌29 | 18°14 | 29°11 | 28°34 | 18°44 | 18°22 | S 2 |
| S 3 | 12 46 33 | 13°29'55 | 21°42 | 1°P36 | 0°P41 | 26°38 | 10°59 | 4°34 | 0°40 | 6°29 | 18°15 | 29°13 | 28°31 | 18°50 | 18°24 | S 3 |
| M 4 | 12 50 29 | 14°29'21 | 4♎25 | 3°25 | 1°55 | 27°12 | 10°51 | 4°32 | 0°40 | 6°28 | 18°17 | 29°14 | 28°27 | 18°57 | 18°27 | M 4 |
| T 5 | 12 54 26 | 15°28'46 | 16°56 | 5°15 | 3°10 | 27°46 | 10°43 | 4°30 | 0°40 | 6°28 | 18°18 | 29°15 | 28°24 | 19° 4 | 18°30 | T 5 |
| W 6 | 12 58 23 | 16°28'08 | 29°15 | 7° 7 | 4°24 | 28°21 | 10°36 | 4°28 | 0°40 | 6°28 | 18°20 | 29°R15 | 28°21 | 19°10 | 18°33 | W 6 |
| T 7 | 13 2 19 | 17°27'28 | 11♌25 | 9° 0 | 5°39 | 28°55 | 10°28 | 4°26 | 0°40 | 6°27 | 18°21 | 29°15 | 28°18 | 19°17 | 18°35 | T 7 |
| F 8 | 13 6 16 | 18°26'46 | 23°28 | 10°54 | 6°53 | 29°29 | 10°20 | 4°23 | 0°40 | 6°27 | 18°23 | 29°13 | 28°15 | 19°24 | 18°38 | F 8 |
| S 9 | 13 10 12 | 19°26'03 | 5♎24 | 12°50 | 8° 7 | 0♉ 3 | 10°13 | 4°21 | 0°40 | 6°27 | 18°24 | 29°11 | 28°12 | 19°31 | 18°41 | S 9 |
| S 10 | 13 14 9 | 20°25'17 | 17°17 | 14°47 | 9°22 | 0°38 | 10° 5 | 4°18 | 0°40 | 6°26 | 18°25 | 29° 8 | 28° 8 | 19°37 | 18°44 | S 10 |
| M11 | 13 18 5 | 21°24'29 | 29° 8 | 16°45 | 10°36 | 1°12 | 9°58 | 4°16 | 0°39 | 6°26 | 18°27 | 29° 4 | 28° 5 | 19°44 | 18°47 | M11 |
| T 12 | 13 22 2 | 22°23'40 | 10♌59 | 18°45 | 11°51 | 1°47 | 9°50 | 4°13 | 0°39 | 6°26 | 18°28 | 29° 0 | 28° 2 | 19°51 | 18°50 | T 12 |
| W13 | 13 25 58 | 23°22'49 | 22°55 | 20°45 | 13° 5 | 2°21 | 9°43 | 4°10 | 0°38 | 6°26 | 18°30 | 28°57 | 27°59 | 19°57 | 18°54 | W13 |
| T 14 | 13 29 55 | 24°21'56 | 4♌57 | 22°47 | 14°19 | 2°56 | 9°35 | 4° 7 | 0°38 | 6°26 | 18°31 | 28°54 | 27°56 | 20° 4 | 18°57 | T 14 |
| F 15 | 13 33 52 | 25°21'01 | 17°11 | 24°50 | 15°34 | 3°30 | 9°28 | 4° 4 | 0°37 | 6°26 | 18°33 | 28°53 | 27°52 | 20°11 | 19° 0 | F 15 |
| S 16 | 13 37 48 | 26°20'05 | 29°41 | 26°54 | 16°48 | 4° 5 | 9°21 | 4° 1 | 0°37 | 6°26 | 18°34 | 28°D53 | 27°49 | 20°17 | 19° 3 | S 16 |
| S 17 | 13 41 45 | 27°19'06 | 12♋30 | 28°58 | 18° 2 | 4°40 | 9°14 | 3°58 | 0°36 | 6°D26 | 18°36 | 28°53 | 27°46 | 20°24 | 19° 7 | S 17 |
| M18 | 13 45 41 | 28°18'06 | 25°42 | 1♋ 3 | 19°17 | 5°15 | 9° 7 | 3°55 | 0°36 | 6°26 | 18°37 | 28°55 | 27°43 | 20°31 | 19°10 | M18 |
| T 19 | 13 49 38 | 29°17'05 | 9♋21 | 3° 9 | 20°31 | 5°49 | 9° 0 | 3°52 | 0°35 | 6°26 | 18°39 | 28°56 | 27°40 | 20°37 | 19°14 | T 19 |
| W20 | 13 53 34 | 0♌16'01 | 23°27 | 5°15 | 21°45 | 6°24 | 8°53 | 3°49 | 0°34 | 6°26 | 18°40 | 28°R57 | 27°37 | 20°44 | 19°17 | W20 |
| T 21 | 13 57 31 | 1°14'56 | 8°P 0 | 7°20 | 23° 0 | 6°59 | 8°46 | 3°45 | 0°33 | 6°26 | 18°41 | 28°57 | 27°33 | 20°51 | 19°21 | T 21 |
| F 22 | 14 1 27 | 2°13'49 | 22°53 | 9°26 | 24°14 | 7°34 | 8°40 | 3°42 | 0°32 | 6°26 | 18°43 | 28°55 | 27°30 | 20°58 | 19°24 | F 22 |
| S 23 | 14 5 24 | 3°12'40 | 8♌ 1 | 11°30 | 25°28 | 8° 9 | 8°33 | 3°38 | 0°31 | 6°26 | 18°44 | 28°52 | 27°27 | 21° 4 | 19°28 | S 23 |
| S 24 | 14 9 20 | 4°11'29 | 23°14 | 13°34 | 26°42 | 8°44 | 8°27 | 3°35 | 0°31 | 6°27 | 18°46 | 28°47 | 27°24 | 21°11 | 19°32 | S 24 |
| M25 | 14 13 17 | 5°10'16 | 8♈21 | 15°37 | 27°57 | 9°19 | 8°20 | 3°31 | 0°30 | 6°27 | 18°47 | 28°42 | 27°21 | 21°18 | 19°35 | M25 |
| T 26 | 14 17 14 | 6° 9'01 | 23°13 | 17°38 | 29°11 | 9°54 | 8°14 | 3°27 | 0°28 | 6°27 | 18°49 | 28°37 | 27°17 | 21°24 | 19°39 | T 26 |
| W27 | 14 21 10 | 7° 7'44 | 7♉43 | 19°37 | 0♉25 | 10°29 | 8° 8 | 3°24 | 0°27 | 6°27 | 18°50 | 28°33 | 27°14 | 21°31 | 19°43 | W27 |
| T 28 | 14 25 7 | 8° 6'24 | 21°48 | 21°33 | 1°39 | 11° 4 | 8° 2 | 3°20 | 0°26 | 6°28 | 18°51 | 28°30 | 27°11 | 21°38 | 19°47 | T 28 |
| F 29 | 14 29 3 | 9° 5'03 | 5♎26 | 23°27 | 2°54 | 11°40 | 7°56 | 3°16 | 0°25 | 6°28 | 18°53 | 28°D29 | 27° 8 | 21°44 | 19°51 | F 29 |
| S 30 | 14 33 0 | 10♌ 3'39 | 18♎39 | 25♌18 | 4♌ 8 | 12♉15 | 7♌51 | 3♌12 | 0♃24 | 6♌29 | 18°P54 | 28♎29 | 27♎ 5 | 21♎51 | 19♈55 | S 30 |

Delta T = 18m34s

ASTRODIENST EPHEMERIS for the year 2574
geocentric

MAY 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|-------|------|
| S 1 | 14 36 56 | 11♌ 2'12 | 1♎29 | 27♌ 6 | 5♌22 | 12♌50 | 7°R45 | 3°R 8 | 0°R22 | 6♌29 | 18°V56 | 28♎30 | 27♎ 2 | 21♌58 | 19♏59 | S 1 |
| M 2 | 14 40 53 | 12° 0'44 | 14° 1 | 28°51 | 6°36 | 13°25 | 7♌40 | 3♌ 4 | 0♌21 | 6°30 | 18°57 | 28°31 | 26°58 | 22° 5 | 20° 3 | M 2 |
| T 3 | 14 44 49 | 12°59'14 | 26° 19 | 0♏32 | 7°50 | 14° 1 | 7°34 | 3° 0 | 0°20 | 6°30 | 18°58 | 28°R32 | 26°55 | 22°11 | 20° 7 | T 3 |
| W 4 | 14 48 46 | 13°57'41 | 8♌25 | 2° 9 | 9° 4 | 14°36 | 7°29 | 2°56 | 0°18 | 6°31 | 19° 0 | 28°32 | 26°52 | 22°18 | 20°11 | W 4 |
| T 5 | 14 52 43 | 14°56'07 | 20°25 | 3°42 | 10°18 | 15°12 | 7°24 | 2°52 | 0°17 | 6°31 | 19° 1 | 28°29 | 26°49 | 22°25 | 20°15 | T 5 |
| F 6 | 14 56 39 | 15°54'30 | 2♌19 | 5°11 | 11°32 | 15°47 | 7°19 | 2°48 | 0°15 | 6°32 | 19° 2 | 28°25 | 26°46 | 22°31 | 20°19 | F 6 |
| S 7 | 15 0 36 | 16°52'52 | 14°11 | 6°36 | 12°47 | 16°22 | 7°15 | 2°43 | 0°14 | 6°33 | 19° 4 | 28°18 | 26°43 | 22°38 | 20°24 | S 7 |
| S 8 | 15 4 32 | 17°51'12 | 26° 2 | 7°56 | 14° 1 | 16°58 | 7°10 | 2°39 | 0°12 | 6°33 | 19° 5 | 28° 9 | 26°39 | 22°45 | 20°28 | S 8 |
| M 9 | 15 8 29 | 18°49'30 | 7♌54 | 9°12 | 15°15 | 17°33 | 7° 6 | 2°35 | 0°11 | 6°34 | 19° 6 | 28° 0 | 26°36 | 22°51 | 20°32 | M 9 |
| T 10 | 15 12 25 | 19°47'47 | 19°49 | 10°23 | 16°29 | 18° 9 | 7° 2 | 2°31 | 0° 9 | 6°35 | 19° 7 | 27°50 | 26°33 | 22°58 | 20°36 | T 10 |
| W11 | 15 16 22 | 20°46'02 | 1♌48 | 11°29 | 17°43 | 18°44 | 6°58 | 2°26 | 0° 7 | 6°36 | 19° 9 | 27°41 | 26°30 | 23° 5 | 20°41 | W11 |
| T 12 | 15 20 18 | 21°44'15 | 13°54 | 12°31 | 18°57 | 19°20 | 6°54 | 2°22 | 0° 6 | 6°36 | 19°10 | 27°33 | 26°27 | 23°12 | 20°45 | T 12 |
| F 13 | 15 24 15 | 22°42'27 | 26°10 | 13°28 | 20°11 | 19°56 | 6°50 | 2°17 | 0° 4 | 6°37 | 19°11 | 27°28 | 26°23 | 23°18 | 20°49 | F 13 |
| S 14 | 15 28 12 | 23°40'37 | 8♌39 | 14°20 | 21°25 | 20°31 | 6°47 | 2°13 | 0° 2 | 6°38 | 19°13 | 27°24 | 26°20 | 23°25 | 20°54 | S 14 |
| S 15 | 15 32 8 | 24°38'46 | 21°24 | 15° 7 | 22°39 | 21° 7 | 6°43 | 2° 9 | 0° 0 | 6°39 | 19°14 | 27°D23 | 26°17 | 23°32 | 20°58 | S 15 |
| M16 | 15 36 5 | 25°36'54 | 4♌31 | 15°49 | 23°53 | 21°43 | 6°40 | 2° 4 | 29♌58 | 6°40 | 19°15 | 27°23 | 26°14 | 23°38 | 21° 3 | M16 |
| T 17 | 15 40 1 | 26°35'00 | 18° 1 | 16°27 | 25° 7 | 22°18 | 6°37 | 2° 0 | 29°57 | 6°41 | 19°16 | 27°24 | 26°11 | 23°45 | 21° 7 | T 17 |
| W18 | 15 43 58 | 27°33'05 | 1♌58 | 16°59 | 26°21 | 22°54 | 6°34 | 1°55 | 29°55 | 6°42 | 19°17 | 27°R24 | 26° 8 | 23°52 | 21°12 | W18 |
| T 19 | 15 47 54 | 28°31'08 | 16°22 | 17°25 | 27°35 | 23°30 | 6°32 | 1°51 | 29°53 | 6°43 | 19°19 | 27°23 | 26° 4 | 23°58 | 21°16 | T 19 |
| F 20 | 15 51 51 | 29°29'10 | 1♌10 | 17°47 | 28°49 | 24° 6 | 6°29 | 1°46 | 29°51 | 6°44 | 19°20 | 27°19 | 26° 1 | 24° 5 | 21°21 | F 20 |
| S 21 | 15 55 47 | 0♏27'11 | 16°17 | 18° 4 | 0♏ 3 | 24°41 | 6°27 | 1°42 | 29°49 | 6°45 | 19°21 | 27°13 | 25°58 | 24°12 | 21°26 | S 21 |
| S 22 | 15 59 44 | 1°25'11 | 1♏34 | 18°15 | 1°17 | 25°17 | 6°25 | 1°37 | 29°47 | 6°46 | 19°22 | 27° 5 | 25°55 | 24°19 | 21°30 | S 22 |
| M23 | 16 3 41 | 2°23'08 | 16°50 | 18°22 | 2°30 | 25°53 | 6°23 | 1°33 | 29°45 | 6°47 | 19°23 | 26°55 | 25°52 | 24°25 | 21°35 | M23 |
| T 24 | 16 7 37 | 3°21'05 | 1♌53 | 18°R24 | 3°44 | 26°29 | 6°21 | 1°28 | 29°42 | 6°49 | 19°24 | 26°46 | 25°49 | 24°32 | 21°39 | T 24 |
| W25 | 16 11 34 | 4°18'59 | 16°36 | 18°20 | 4°58 | 27° 5 | 6°20 | 1°24 | 29°40 | 6°50 | 19°25 | 26°37 | 25°45 | 24°39 | 21°44 | W25 |
| T 26 | 16 15 30 | 5°16'52 | 0♏51 | 18°12 | 6°12 | 27°41 | 6°18 | 1°19 | 29°38 | 6°51 | 19°27 | 26°31 | 25°42 | 24°45 | 21°49 | T 26 |
| F 27 | 16 19 27 | 6°14'44 | 14°37 | 18° 0 | 7°26 | 28°17 | 6°17 | 1°15 | 29°36 | 6°52 | 19°28 | 26°27 | 25°39 | 24°52 | 21°54 | F 27 |
| S 28 | 16 23 23 | 7°12'33 | 27°54 | 17°44 | 8°40 | 28°53 | 6°16 | 1°10 | 29°34 | 6°53 | 19°29 | 26°25 | 25°36 | 24°59 | 21°58 | S 28 |
| S 29 | 16 27 20 | 8°10'21 | 10♎45 | 17°23 | 9°54 | 29°29 | 6°15 | 1° 6 | 29°32 | 6°55 | 19°30 | 26°D25 | 25°33 | 25° 5 | 22° 3 | S 29 |
| M30 | 16 31 16 | 9° 8'07 | 23°14 | 16°59 | 11° 8 | 0♏ 5 | 6°14 | 1° 1 | 29°29 | 6°56 | 19°31 | 26°R25 | 25°29 | 25°12 | 22° 8 | M30 |
| T 31 | 16 35 13 | 10♏ 5'51 | 5♌27 | 16♏33 | 12♏22 | 0♏41 | 6♌14 | 0♌57 | 29♌27 | 6♌58 | 19°V32 | 26♎25 | 25♎26 | 25♌19 | 22♏13 | T 31 |

Delta T = 18m34s

JUNE 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|-------|--------|------|--------|--------|-------|-------|-------|------|
| W 1 | 16 39 10 | 11♏ 3'34 | 17♌28 | 16°R 3 | 13♏35 | 1♏17 | 6°R14 | 0°R52 | 29°R25 | 6♌59 | 19°V33 | 26°R23 | 25♎23 | 25♌26 | 22♏17 | W 1 |
| T 2 | 16 43 6 | 12° 1'16 | 29°22 | 15♏32 | 14°49 | 1°53 | 6°D13 | 0♌48 | 29♌22 | 7° 0 | 19°34 | 26♎19 | 25°20 | 25°32 | 22°22 | T 2 |
| F 3 | 16 47 3 | 12°58'56 | 11♌13 | 14°59 | 16° 3 | 2°29 | 6♌14 | 0°44 | 29°20 | 7° 2 | 19°35 | 26°12 | 25°17 | 25°39 | 22°27 | F 3 |
| S 4 | 16 50 59 | 13°56'35 | 23° 3 | 14°25 | 17°17 | 3° 5 | 6°14 | 0°39 | 29°18 | 7° 3 | 19°36 | 26° 2 | 25°14 | 25°46 | 22°32 | S 4 |
| S 5 | 16 54 56 | 14°54'12 | 4♌55 | 13°51 | 18°31 | 3°42 | 6°14 | 0°35 | 29°15 | 7° 5 | 19°37 | 25°50 | 25°10 | 25°52 | 22°37 | S 5 |
| M 6 | 16 58 52 | 15°51'48 | 16°51 | 13°18 | 19°44 | 4°18 | 6°15 | 0°31 | 29°13 | 7° 6 | 19°37 | 25°37 | 25° 7 | 25°59 | 22°41 | M 6 |
| T 7 | 17 2 49 | 16°49'23 | 28°52 | 12°45 | 20°58 | 4°54 | 6°16 | 0°27 | 29°11 | 7° 8 | 19°38 | 25°23 | 25° 4 | 26° 6 | 22°46 | T 7 |
| W 8 | 17 6 45 | 17°46'57 | 10♌59 | 12°13 | 22°12 | 5°30 | 6°17 | 0°22 | 29° 8 | 7° 9 | 19°39 | 25°11 | 25° 1 | 26°12 | 22°51 | W 8 |
| T 9 | 17 10 42 | 18°44'30 | 23°14 | 11°44 | 23°26 | 6° 6 | 6°18 | 0°18 | 29° 6 | 7°11 | 19°40 | 25° 0 | 24°58 | 26°19 | 22°56 | T 9 |
| F 10 | 17 14 39 | 19°42'02 | 5♌38 | 11°17 | 24°39 | 6°43 | 6°19 | 0°14 | 29° 3 | 7°13 | 19°41 | 24°51 | 24°55 | 26°26 | 23° 1 | F 10 |
| S 11 | 17 18 35 | 20°39'33 | 18°14 | 10°52 | 25°53 | 7°19 | 6°20 | 0°10 | 29° 1 | 7°14 | 19°42 | 24°46 | 24°51 | 26°33 | 23° 6 | S 11 |
| S 12 | 17 22 32 | 21°37'04 | 1♌ 3 | 10°32 | 27° 7 | 7°55 | 6°22 | 0° 6 | 28°59 | 7°16 | 19°43 | 24°43 | 24°48 | 26°39 | 23°10 | S 12 |
| M13 | 17 26 28 | 22°34'33 | 14° 9 | 10°14 | 28°21 | 8°31 | 6°24 | 0° 2 | 28°56 | 7°18 | 19°43 | 24°42 | 24°45 | 26°46 | 23°15 | M13 |
| T 14 | 17 30 25 | 23°32'02 | 27°34 | 10° 1 | 29°34 | 9° 8 | 6°26 | 29♌58 | 28°54 | 7°19 | 19°44 | 24°42 | 24°42 | 26°53 | 23°20 | T 14 |
| W15 | 17 34 21 | 24°29'30 | 11°V22 | 9°51 | 0♌48 | 9°44 | 6°28 | 29°54 | 28°51 | 7°21 | 19°45 | 24°41 | 24°39 | 26°59 | 23°25 | W15 |
| T 16 | 17 38 18 | 25°26'58 | 25°34 | 9°46 | 2° 2 | 10°21 | 6°31 | 29°50 | 28°49 | 7°23 | 19°46 | 24°39 | 24°35 | 27° 6 | 23°30 | T 16 |
| F 17 | 17 42 14 | 26°24'25 | 10♌ 8 | 9°D46 | 3°16 | 10°57 | 6°33 | 29°46 | 28°46 | 7°24 | 19°46 | 24°35 | 24°32 | 27°13 | 23°35 | F 17 |
| S 18 | 17 46 11 | 27°21'51 | 25° 1 | 9°49 | 4°29 | 11°33 | 6°36 | 29°43 | 28°44 | 7°26 | 19°47 | 24°28 | 24°29 | 27°20 | 23°40 | S 18 |
| S 19 | 17 50 8 | 28°19'17 | 10♏ 6 | 9°58 | 5°43 | 12°10 | 6°39 | 29°39 | 28°41 | 7°28 | 19°48 | 24°19 | 24°26 | 27°26 | 23°45 | S 19 |
| M20 | 17 54 4 | 29°16'42 | 25°14 | 10°10 | 6°57 | 12°46 | 6°42 | 29°35 | 28°39 | 7°30 | 19°48 | 24° 8 | 24°23 | 27°33 | 23°49 | M20 |
| T 21 | 17 58 1 | 0♌14'07 | 10♌14 | 10°28 | 8°10 | 13°23 | 6°45 | 29°32 | 28°36 | 7°32 | 19°49 | 23°57 | 24°20 | 27°40 | 23°54 | T 21 |
| W22 | 18 1 57 | 1°11'31 | 24°56 | 10°49 | 9°24 | 13°59 | 6°48 | 29°28 | 28°34 | 7°34 | 19°50 | 23°47 | 24°16 | 27°46 | 23°59 | W22 |
| T 23 | 18 5 54 | 2° 8'53 | 9♏15 | 11°16 | 10°38 | 14°36 | 6°52 | 29°25 | 28°32 | 7°35 | 19°50 | 23°39 | 24°13 | 27°53 | 24° 4 | T 23 |
| F 24 | 18 9 50 | 3° 6'15 | 23° 5 | 11°46 | 11°52 | 15°12 | 6°56 | 29°22 | 28°29 | 7°37 | 19°51 | 23°34 | 24°10 | 28° 0 | 24° 9 | F 24 |
| S 25 | 18 13 47 | 4° 3'36 | 6♎26 | 12°21 | 13° 5 | 15°49 | 6°59 | 29°18 | 28°27 | 7°39 | 19°51 | 23°31 | 24° 7 | 28° 7 | 24°14 | S 25 |
| S 26 | 18 17 44 | 5° 0'56 | 19°21 | 13° 0 | 14°19 | 16°25 | 7° 3 | 29°15 | 28°24 | 7°41 | 19°52 | 23°D30 | 24° 4 | 28°13 | 24°19 | S 26 |
| M27 | 18 21 40 | 5°58'15 | 1♌53 | 13°44 | 15°33 | 17° 2 | 7° 8 | 29°12 | 28°22 | 7°43 | 19°52 | 23°R30 | 24° 1 | 28°20 | 24°23 | M27 |
| T 28 | 18 25 37 | 6°55'34 | 14° 6 | 14°31 | 16°46 | 17°39 | 7°12 | 29° 9 | 28°19 | 7°45 | 19°53 | 23°30 | 23°57 | 28°27 | 24°28 | T 28 |
| W29 | 18 29 33 | 7°52'51 | 26° 8 | 15°23 | 18° 0 | 18°15 | 7°16 | 29° 6 | 28°17 | 7°47 | 19°53 | 23°29 | 23°54 | 28°33 | 24°33 | W29 |
| T 30 | 18 33 30 | 8♌50'08 | 8♌ 1 | 16♏18 | 19♌13 | 18♏52 | 7♌21 | 29♌ 3 | 28♌14 | 7♌49 | 19°V54 | 23♎26 | 23♎51 | 28♌40 | 24♏38 | T 30 |

Delta T = 18m34s

ASTRODIENST EPHEMERIS for the year 2574
geocentric

JULY 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|------|--------|--------|-------|-------|-------|------|
| F 1 | 18 37 26 | 9♄47'24 | 19♌51 | 17♊17 | 20♄27 | 19♏29 | 7♁26 | 29°R 0 | 28°R12 | 7♁51 | 19°V54 | 23°R20 | 23♎48 | 28♌47 | 24♊42 | F 1 |
| S 2 | 18 41 23 | 10°44'40 | 1♄43 | 18°20 | 21°41 | 20° 5 | 7°31 | 28♌57 | 28♄10 | 7°53 | 19°54 | 23♎11 | 23°45 | 28°53 | 24°47 | S 2 |
| S 3 | 18 45 19 | 11°41'55 | 13°38 | 19°27 | 22°54 | 20°42 | 7°36 | 28°54 | 28° 7 | 7°55 | 19°55 | 23° 1 | 23°41 | 29° 0 | 24°52 | S 3 |
| M 4 | 18 49 16 | 12°39'10 | 25°40 | 20°38 | 24° 8 | 21°19 | 7°41 | 28°52 | 28° 5 | 7°57 | 19°55 | 22°49 | 23°38 | 29° 7 | 24°57 | M 4 |
| T 5 | 18 53 13 | 13°36'24 | 7♄50 | 21°52 | 25°22 | 21°55 | 7°47 | 28°49 | 28° 3 | 7°59 | 19°56 | 22°36 | 23°35 | 29°14 | 25° 1 | T 5 |
| W 6 | 18 57 9 | 14°33'38 | 20° 9 | 23°10 | 26°35 | 22°32 | 7°52 | 28°47 | 28° 0 | 8° 1 | 19°56 | 22°25 | 23°32 | 29°20 | 25° 6 | W 6 |
| T 7 | 19 1 6 | 15°30'51 | 2♄37 | 24°32 | 27°49 | 23° 9 | 7°58 | 28°44 | 27°58 | 8° 3 | 19°56 | 22°15 | 23°29 | 29°27 | 25°11 | T 7 |
| F 8 | 19 5 2 | 16°28'05 | 15°16 | 25°57 | 29° 2 | 23°46 | 8° 4 | 28°42 | 27°56 | 8° 5 | 19°56 | 22° 7 | 23°26 | 29°34 | 25°15 | F 8 |
| S 9 | 19 8 59 | 17°25'18 | 28° 6 | 27°26 | 0♏16 | 24°23 | 8°10 | 28°40 | 27°53 | 8° 7 | 19°57 | 22° 2 | 23°22 | 29°40 | 25°20 | S 9 |
| S 10 | 19 12 55 | 18°22'31 | 11♄8 | 28°58 | 1°30 | 24°59 | 8°16 | 28°38 | 27°51 | 8°10 | 19°57 | 22° 0 | 23°19 | 29°47 | 25°25 | S 10 |
| M 11 | 19 16 52 | 19°19'44 | 24°23 | 0♄33 | 2°43 | 25°36 | 8°22 | 28°36 | 27°49 | 8°12 | 19°57 | 21°D59 | 23°16 | 29°54 | 25°29 | M 11 |
| T 12 | 19 20 48 | 20°16'58 | 7°V53 | 2°12 | 3°57 | 26°13 | 8°29 | 28°34 | 27°47 | 8°14 | 19°57 | 22° 0 | 23°13 | 0♄1 | 25°34 | T 12 |
| W 13 | 19 24 45 | 21°14'12 | 21°40 | 3°55 | 5°10 | 26°50 | 8°35 | 28°32 | 27°44 | 8°16 | 19°57 | 22°R 0 | 23°10 | 0° 7 | 25°38 | W 13 |
| T 14 | 19 28 42 | 22°11'25 | 5♄43 | 5°40 | 6°24 | 27°27 | 8°42 | 28°30 | 27°42 | 8°18 | 19°58 | 22° 0 | 23° 7 | 0°14 | 25°43 | T 14 |
| F 15 | 19 32 38 | 23° 8'40 | 20° 3 | 7°28 | 7°37 | 28° 4 | 8°49 | 28°28 | 27°40 | 8°20 | 19°58 | 21°57 | 23° 3 | 0°21 | 25°47 | F 15 |
| S 16 | 19 36 35 | 24° 5'54 | 4♊38 | 9°20 | 8°51 | 28°41 | 8°56 | 28°27 | 27°38 | 8°22 | 19°58 | 21°52 | 23° 0 | 0°27 | 25°52 | S 16 |
| S 17 | 19 40 31 | 25° 3'09 | 19°21 | 11°14 | 10° 4 | 29°18 | 9° 3 | 28°25 | 27°36 | 8°25 | 19°58 | 21°45 | 22°57 | 0°34 | 25°56 | S 17 |
| M 18 | 19 44 28 | 26° 0'25 | 4♄7 | 13°11 | 11°18 | 29°55 | 9°10 | 28°24 | 27°34 | 8°27 | 19°58 | 21°37 | 22°54 | 0°41 | 26° 1 | M 18 |
| T 19 | 19 48 24 | 26°57'40 | 18°49 | 15°10 | 12°32 | 0♎32 | 9°17 | 28°23 | 27°32 | 8°29 | 19°58 | 21°29 | 22°51 | 0°48 | 26° 5 | T 19 |
| W 20 | 19 52 21 | 27°54'56 | 3♏17 | 17°12 | 13°45 | 1° 9 | 9°25 | 28°21 | 27°30 | 8°31 | 19°R58 | 21°21 | 22°47 | 0°54 | 26°10 | W 20 |
| T 21 | 19 56 17 | 28°52'12 | 17°26 | 19°15 | 14°59 | 1°46 | 9°32 | 28°20 | 27°28 | 8°33 | 19°58 | 21°15 | 22°44 | 1° 1 | 26°14 | T 21 |
| F 22 | 20 0 14 | 29°49'27 | 1♎11 | 21°20 | 16°12 | 2°23 | 9°40 | 28°19 | 27°26 | 8°36 | 19°58 | 21°11 | 22°41 | 1° 8 | 26°18 | F 22 |
| S 23 | 20 4 11 | 0♏46'43 | 14°31 | 23°27 | 17°26 | 3° 0 | 9°48 | 28°18 | 27°24 | 8°38 | 19°58 | 21° 9 | 22°38 | 1°14 | 26°23 | S 23 |
| S 24 | 20 8 7 | 1°43'59 | 27°27 | 25°34 | 18°39 | 3°38 | 9°56 | 28°18 | 27°22 | 8°40 | 19°58 | 21°D 9 | 22°35 | 1°21 | 26°27 | S 24 |
| M 25 | 20 12 4 | 2°41'15 | 10♄1 | 27°42 | 19°53 | 4°15 | 10° 4 | 28°17 | 27°20 | 8°42 | 19°58 | 21°10 | 22°32 | 1°28 | 26°31 | M 25 |
| T 26 | 20 16 0 | 3°38'31 | 22°17 | 29°51 | 21° 6 | 4°52 | 10°12 | 28°16 | 27°18 | 8°44 | 19°58 | 21°11 | 22°28 | 1°35 | 26°35 | T 26 |
| W 27 | 20 19 57 | 4°35'47 | 4♌20 | 1♏59 | 22°20 | 5°29 | 10°20 | 28°16 | 27°16 | 8°47 | 19°57 | 21°R12 | 22°25 | 1°41 | 26°39 | W 27 |
| T 28 | 20 23 53 | 5°33'03 | 16°15 | 4° 8 | 23°33 | 6° 6 | 10°29 | 28°15 | 27°15 | 8°49 | 19°57 | 21°11 | 22°22 | 1°48 | 26°44 | T 28 |
| F 29 | 20 27 50 | 6°30'20 | 28° 7 | 6°16 | 24°46 | 6°44 | 10°37 | 28°15 | 27°13 | 8°51 | 19°57 | 21° 9 | 22°19 | 1°55 | 26°48 | F 29 |
| S 30 | 20 31 46 | 7°27'37 | 10♄1 | 8°24 | 26° 0 | 7°21 | 10°46 | 28°14 | 27°11 | 8°53 | 19°57 | 21° 5 | 22°16 | 2° 1 | 26°52 | S 30 |
| S 31 | 20 35 43 | 8♏24'54 | 22♄0 | 10♏30 | 27♏13 | 7♎58 | 10♄55 | 28♌14 | 27♄10 | 8♏56 | 19°V57 | 20♎59 | 22♎13 | 2♄8 | 26♊56 | S 31 |

Delta T = 18m35s

AUGUST 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|------|-------|------|
| M 1 | 20 39 40 | 9♏22'11 | 4♄7 | 12♏36 | 28♏27 | 8♎36 | 11♄4 | 28°D14 | 27°R 8 | 8♏58 | 19°R56 | 20°R52 | 22♎9 | 2♄15 | 27♊0 | M 1 |
| T 2 | 20 43 36 | 10°19'29 | 16°26 | 14°41 | 29°40 | 9°13 | 11°12 | 28♌14 | 27♄6 | 9° 0 | 19°V56 | 20♎45 | 22° 6 | 2°22 | 27° 4 | T 2 |
| W 3 | 20 47 33 | 11°16'47 | 28°57 | 16°44 | 0♎53 | 9°50 | 11°22 | 28°14 | 27° 5 | 9° 2 | 19°56 | 20°38 | 22° 3 | 2°28 | 27° 8 | W 3 |
| T 4 | 20 51 29 | 12°14'06 | 11♄42 | 18°46 | 2° 7 | 10°28 | 11°31 | 28°15 | 27° 3 | 9° 4 | 19°55 | 20°32 | 22° 0 | 2°35 | 27°11 | T 4 |
| F 5 | 20 55 26 | 13°11'25 | 24°40 | 20°46 | 3°20 | 11° 5 | 11°40 | 28°15 | 27° 2 | 9° 7 | 19°55 | 20°28 | 21°57 | 2°42 | 27°15 | F 5 |
| S 6 | 20 59 22 | 14° 8'45 | 7♄50 | 22°45 | 4°33 | 11°42 | 11°49 | 28°15 | 27° 0 | 9° 9 | 19°55 | 20°26 | 21°53 | 2°48 | 27°19 | S 6 |
| S 7 | 21 3 19 | 15° 6'06 | 21°13 | 24°42 | 5°47 | 12°20 | 11°59 | 28°16 | 26°59 | 9°11 | 19°54 | 20°D25 | 21°50 | 2°55 | 27°23 | S 7 |
| M 8 | 21 7 15 | 16° 3'28 | 4°V48 | 26°38 | 7° 0 | 12°57 | 12° 8 | 28°17 | 26°58 | 9°13 | 19°54 | 20°26 | 21°47 | 3° 2 | 27°26 | M 8 |
| T 9 | 21 11 12 | 17° 0'50 | 18°33 | 28°32 | 8°13 | 13°35 | 12°18 | 28°17 | 26°56 | 9°16 | 19°54 | 20°27 | 21°44 | 3° 9 | 27°30 | T 9 |
| W 10 | 21 15 9 | 17°58'14 | 2♄28 | 0♎24 | 9°27 | 14°12 | 12°28 | 28°18 | 26°55 | 9°18 | 19°53 | 20°28 | 21°41 | 3°15 | 27°34 | W 10 |
| T 11 | 21 19 5 | 18°55'39 | 16°33 | 2°15 | 10°40 | 14°50 | 12°37 | 28°19 | 26°54 | 9°20 | 19°53 | 20°R29 | 21°38 | 3°22 | 27°37 | T 11 |
| F 12 | 21 23 2 | 19°53'05 | 0♊46 | 4° 4 | 11°53 | 15°28 | 12°47 | 28°20 | 26°53 | 9°22 | 19°52 | 20°29 | 21°34 | 3°29 | 27°41 | F 12 |
| S 13 | 21 26 58 | 20°50'33 | 15° 5 | 5°52 | 13° 7 | 16° 5 | 12°57 | 28°21 | 26°52 | 9°24 | 19°52 | 20°27 | 21°31 | 3°35 | 27°44 | S 13 |
| S 14 | 21 30 55 | 21°48'01 | 29°26 | 7°38 | 14°20 | 16°43 | 13° 7 | 28°22 | 26°51 | 9°27 | 19°51 | 20°24 | 21°28 | 3°42 | 27°48 | S 14 |
| M 15 | 21 34 51 | 22°45'31 | 13♄47 | 9°22 | 15°33 | 17°21 | 13°18 | 28°24 | 26°50 | 9°29 | 19°51 | 20°20 | 21°25 | 3°49 | 27°51 | M 15 |
| T 16 | 21 38 48 | 23°43'02 | 28° 1 | 11° 5 | 16°46 | 17°58 | 13°28 | 28°25 | 26°49 | 9°31 | 19°50 | 20°17 | 21°22 | 3°56 | 27°54 | T 16 |
| W 17 | 21 42 44 | 24°40'34 | 12♏4 | 12°46 | 18° 0 | 18°36 | 13°38 | 28°26 | 26°48 | 9°33 | 19°50 | 20°13 | 21°18 | 4° 2 | 27°58 | W 17 |
| T 18 | 21 46 41 | 25°38'07 | 25°53 | 14°26 | 19°13 | 19°14 | 13°49 | 28°28 | 26°47 | 9°35 | 19°49 | 20°10 | 21°15 | 4° 9 | 28° 1 | T 18 |
| F 19 | 21 50 38 | 26°35'41 | 9♎23 | 16° 4 | 20°26 | 19°51 | 13°59 | 28°30 | 26°46 | 9°37 | 19°48 | 20° 9 | 21°12 | 4°16 | 28° 4 | F 19 |
| S 20 | 21 54 34 | 27°33'16 | 22°33 | 17°40 | 21°39 | 20°29 | 14°10 | 28°31 | 26°45 | 9°40 | 19°48 | 20°D 9 | 21° 9 | 4°22 | 28° 7 | S 20 |
| S 21 | 21 58 31 | 28°30'52 | 5♄24 | 19°15 | 22°52 | 21° 7 | 14°21 | 28°33 | 26°44 | 9°42 | 19°47 | 20° 9 | 21° 6 | 4°29 | 28°10 | S 21 |
| M 22 | 22 2 27 | 29°28'29 | 17°56 | 20°48 | 24° 5 | 21°45 | 14°31 | 28°35 | 26°44 | 9°44 | 19°46 | 20°10 | 21° 3 | 4°36 | 28°13 | M 22 |
| T 23 | 22 6 24 | 0♎26'07 | 0♌12 | 22°20 | 25°19 | 22°23 | 14°42 | 28°37 | 26°43 | 9°46 | 19°46 | 20°12 | 20°59 | 4°43 | 28°16 | T 23 |
| W 24 | 22 10 20 | 1°23'46 | 12°16 | 23°50 | 26°32 | 23° 1 | 14°53 | 28°39 | 26°42 | 9°48 | 19°45 | 20°13 | 20°56 | 4°49 | 28°19 | W 24 |
| T 25 | 22 14 17 | 2°21'26 | 24°13 | 25°19 | 27°45 | 23°39 | 15° 4 | 28°42 | 26°42 | 9°50 | 19°44 | 20°14 | 20°53 | 4°56 | 28°22 | T 25 |
| F 26 | 22 18 13 | 3°19'07 | 6♄6 | 26°46 | 28°58 | 24°17 | 15°15 | 28°44 | 26°41 | 9°52 | 19°44 | 20°R14 | 20°50 | 5° 3 | 28°25 | F 26 |
| S 27 | 22 22 10 | 4°16'49 | 18° 0 | 28°11 | 0♊11 | 24°55 | 15°26 | 28°46 | 26°41 | 9°54 | 19°43 | 20°14 | 20°47 | 5° 9 | 28°27 | S 27 |
| S 28 | 22 26 6 | 5°14'32 | 0♄1 | 29°35 | 1°24 | 25°33 | 15°37 | 28°49 | 26°40 | 9°56 | 19°42 | 20°13 | 20°44 | 5°16 | 28°30 | S 28 |
| M 29 | 22 30 3 | 6°12'16 | 12°11 | 0♄57 | 2°37 | 26°11 | 15°49 | 28°52 | 26°40 | 9°58 | 19°41 | 20°11 | 20°40 | 5°23 | 28°33 | M 29 |
| T 30 | 22 34 0 | 7°10'01 | 24°35 | 2°18 | 3°50 | 26°49 | 16° 0 | 28°54 | 26°40 | 10° 0 | 19°40 | 20° 9 | 20°37 | 5°30 | 28°35 | T 30 |
| W 31 | 22 37 56 | 8♎7'48 | 7♄15 | 3♄36 | 5♄3 | 27♎27 | 16♄11 | 28♌57 | 26♄40 | 10♏2 | 19°V40 | 20♎7 | 20♎34 | 5♄36 | 28♊38 | W 31 |

Delta T = 18m35s

ASTRODIENST EPHEMERIS for the year 2574
geocentric

SEPTEMBER 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|--------|--------|-------|------|-------|------|-----|
| T 1 | 22 41 53 | 9♎ 5'35 | 20♋13 | 4♌53 | 6♌16 | 28♎ 5 | 16♌23 | 29♎ 0 | 26°R39 | 10♎ 4 | 19°R39 | 20°R 6 | 20♎31 | 5♌43 | 28♎40 | T 1 | |
| F 2 | 22 45 49 | 10° 3'24 | 3♋29 | 6° 8 | 7°29 | 28°43 | 16°34 | 29° 3 | 26°R39 | 10° 6 | 19°Y38 | 20♎ 5 | 20°28 | 5°50 | 28°43 | F 2 | |
| S 3 | 22 49 46 | 11° 1'14 | 17° 2 | 7°22 | 8°42 | 29°21 | 16°46 | 29° 6 | 26°39 | 10° 8 | 19°37 | 20°D 5 | 20°24 | 5°56 | 28°45 | S 3 | |
| S 4 | 22 53 42 | 11°59'06 | 0♈51 | 8°33 | 9°54 | 29°59 | 16°57 | 29° 9 | 26°39 | 10°10 | 19°36 | 20° 5 | 20°21 | 6° 3 | 28°47 | S 4 | |
| M 5 | 22 57 39 | 12°56'59 | 14°52 | 9°42 | 11° 7 | 0♌38 | 17° 9 | 29°12 | 26°D39 | 10°12 | 19°35 | 20° 5 | 20°18 | 6°10 | 28°49 | M 5 | |
| T 6 | 23 1 35 | 13°54'54 | 29° 2 | 10°49 | 12°20 | 1°16 | 17°21 | 29°16 | 26°39 | 10°14 | 19°34 | 20° 6 | 20°15 | 6°17 | 28°51 | T 6 | |
| W 7 | 23 5 32 | 14°52'51 | 13♉17 | 11°54 | 13°33 | 1°54 | 17°33 | 29°19 | 26°39 | 10°16 | 19°33 | 20° 6 | 20°12 | 6°23 | 28°54 | W 7 | |
| T 8 | 23 9 29 | 15°50'49 | 27°34 | 12°56 | 14°46 | 2°33 | 17°44 | 29°22 | 26°39 | 10°18 | 19°33 | 20° 7 | 20° 9 | 6°30 | 28°56 | T 8 | |
| F 9 | 23 13 25 | 16°48'50 | 11♎50 | 13°56 | 15°58 | 3°11 | 17°56 | 29°26 | 26°39 | 10°20 | 19°32 | 20°R 7 | 20° 5 | 6°37 | 28°57 | F 9 | |
| S 10 | 23 17 22 | 17°46'52 | 26° 3 | 14°53 | 17°11 | 3°49 | 18° 8 | 29°30 | 26°40 | 10°22 | 19°31 | 20° 7 | 20° 2 | 6°44 | 28°59 | S 10 | |
| S 11 | 23 21 18 | 18°44'56 | 10♏ 9 | 15°48 | 18°24 | 4°28 | 18°20 | 29°33 | 26°40 | 10°24 | 19°30 | 20° 7 | 19°59 | 6°50 | 29° 1 | S 11 | |
| M12 | 23 25 15 | 19°43'03 | 24° 6 | 16°40 | 19°37 | 5° 6 | 18°32 | 29°37 | 26°40 | 10°25 | 19°29 | 20°D 7 | 19°56 | 6°57 | 29° 3 | M12 | |
| T 13 | 23 29 11 | 20°41'11 | 7♎54 | 17°28 | 20°49 | 5°45 | 18°44 | 29°41 | 26°41 | 10°27 | 19°28 | 20° 7 | 19°53 | 7° 4 | 29° 5 | T 13 | |
| W14 | 23 33 8 | 21°39'20 | 21°30 | 18°13 | 22° 2 | 6°23 | 18°57 | 29°45 | 26°41 | 10°29 | 19°27 | 20° 7 | 19°50 | 7°10 | 29° 6 | W14 | |
| T 15 | 23 37 4 | 22°37'32 | 4♎52 | 18°55 | 23°15 | 7° 2 | 19° 9 | 29°49 | 26°42 | 10°31 | 19°26 | 20° 7 | 19°46 | 7°17 | 29° 8 | T 15 | |
| F 16 | 23 41 1 | 23°35'46 | 18° 1 | 19°32 | 24°27 | 7°40 | 19°21 | 29°53 | 26°42 | 10°33 | 19°25 | 20°R 7 | 19°43 | 7°24 | 29° 9 | F 16 | |
| S 17 | 23 44 58 | 24°34'01 | 0♌54 | 20° 6 | 25°40 | 8°19 | 19°33 | 29°57 | 26°43 | 10°34 | 19°24 | 20° 7 | 19°40 | 7°31 | 29°11 | S 17 | |
| S 18 | 23 48 54 | 25°32'18 | 13°33 | 20°35 | 26°52 | 8°58 | 19°46 | 0♌ 2 | 26°44 | 10°36 | 19°23 | 20° 7 | 19°37 | 7°37 | 29°12 | S 18 | |
| M19 | 23 52 51 | 26°30'36 | 25°58 | 21° 0 | 28° 5 | 9°36 | 19°58 | 0° 6 | 26°44 | 10°38 | 19°21 | 20° 6 | 19°34 | 7°44 | 29°13 | M19 | |
| T 20 | 23 56 47 | 27°28'56 | 8♎11 | 21°20 | 29°18 | 10°15 | 20°10 | 0°10 | 26°45 | 10°39 | 19°20 | 20° 5 | 19°30 | 7°51 | 29°14 | T 20 | |
| W21 | 0 0 44 | 28°27'18 | 20°13 | 21°34 | 0♎30 | 10°54 | 20°23 | 0°15 | 26°46 | 10°41 | 19°19 | 20° 4 | 19°27 | 7°57 | 29°16 | W21 | |
| T 22 | 0 4 40 | 29°25'42 | 2♌ 9 | 21°42 | 1°43 | 11°32 | 20°35 | 0°19 | 26°47 | 10°43 | 19°18 | 20° 3 | 19°24 | 8° 4 | 29°17 | T 22 | |
| F 23 | 0 8 37 | 0♌24'07 | 14° 2 | 21°R45 | 2°55 | 12°11 | 20°48 | 0°24 | 26°48 | 10°44 | 19°17 | 20° 2 | 19°21 | 8°11 | 29°18 | F 23 | |
| S 24 | 0 12 33 | 1°22'33 | 25°55 | 21°41 | 4° 7 | 12°50 | 21° 0 | 0°29 | 26°49 | 10°46 | 19°16 | 20°D 2 | 19°18 | 8°18 | 29°19 | S 24 | |
| S 25 | 0 16 30 | 2°21'02 | 7♌54 | 21°31 | 5°20 | 13°29 | 21°13 | 0°34 | 26°50 | 10°47 | 19°15 | 20° 2 | 19°15 | 8°24 | 29°19 | S 25 | |
| M26 | 0 20 26 | 3°19'31 | 20° 3 | 21°14 | 6°32 | 14° 8 | 21°26 | 0°38 | 26°51 | 10°49 | 19°14 | 20° 2 | 19°11 | 8°31 | 29°20 | M26 | |
| T 27 | 0 24 23 | 4°18'03 | 2♌27 | 20°50 | 7°44 | 14°47 | 21°38 | 0°43 | 26°52 | 10°50 | 19°13 | 20° 3 | 19° 8 | 8°38 | 29°21 | T 27 | |
| W28 | 0 28 20 | 5°16'36 | 15°10 | 20°19 | 8°57 | 15°26 | 21°51 | 0°48 | 26°53 | 10°52 | 19°12 | 20° 4 | 19° 5 | 8°44 | 29°21 | W28 | |
| T 29 | 0 32 16 | 6°15'10 | 28°14 | 19°41 | 10° 9 | 16° 5 | 22° 3 | 0°53 | 26°54 | 10°53 | 19°10 | 20° 6 | 19° 2 | 8°51 | 29°22 | T 29 | |
| F 30 | 0 36 13 | 7♌13'47 | 11♋41 | 18♌56 | 11♎21 | 16♌44 | 22♌16 | 0♌58 | 26♌55 | 10♎55 | 19°Y 9 | 20♎ 6 | 18♎59 | 8♌58 | 29♎23 | F 30 | |

Delta T = 18m35s

OCTOBER 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|------|--------|-------|--------|--------|-------|-------|--------|------|-----|
| S 1 | 0 40 9 | 8♌12'25 | 25♋31 | 18°R 6 | 12♎33 | 17♌23 | 22♌29 | 1♌ 4 | 26°R57 | 10♎56 | 19°R 8 | 20°R 7 | 18♎55 | 9♌ 5 | 29♎23 | S 1 | |
| S 2 | 0 44 6 | 9°11'05 | 9♈42 | 17♌ 9 | 13°45 | 18° 2 | 22°42 | 1° 9 | 26°58 | 10°57 | 19°Y 7 | 20♎ 6 | 18°52 | 9°11 | 29°23 | S 2 | |
| M 3 | 0 48 2 | 10° 9'47 | 24°10 | 16° 9 | 14°58 | 18°41 | 22°54 | 1°14 | 27° 0 | 10°59 | 19° 6 | 20° 4 | 18°49 | 9°18 | 29°24 | M 3 | |
| T 4 | 0 51 59 | 11° 8'31 | 8♉49 | 15° 5 | 16°10 | 19°20 | 23° 7 | 1°20 | 27° 1 | 11° 0 | 19° 5 | 20° 1 | 18°46 | 9°25 | 29°24 | T 4 | |
| W 5 | 0 55 55 | 12° 7'17 | 23°31 | 13°58 | 17°22 | 19°59 | 23°20 | 1°25 | 27° 3 | 11° 1 | 19° 4 | 19°58 | 18°43 | 9°32 | 29°24 | W 5 | |
| T 6 | 0 59 52 | 13° 6'05 | 8♎10 | 12°52 | 18°34 | 20°39 | 23°33 | 1°30 | 27° 4 | 11° 2 | 19° 2 | 19°56 | 18°40 | 9°38 | 29°R24 | T 6 | |
| F 7 | 1 3 49 | 14° 4'56 | 22°41 | 11°47 | 19°46 | 21°18 | 23°46 | 1°36 | 27° 6 | 11° 4 | 19° 1 | 19°53 | 18°36 | 9°45 | 29°24 | F 7 | |
| S 8 | 1 7 45 | 15° 3'49 | 6♏58 | 10°44 | 20°58 | 21°57 | 23°59 | 1°42 | 27° 7 | 11° 5 | 19° 0 | 19°52 | 18°33 | 9°52 | 29°24 | S 8 | |
| S 9 | 1 11 42 | 16° 2'44 | 20°59 | 9°46 | 22°10 | 22°37 | 24°12 | 1°47 | 27° 9 | 11° 6 | 18°59 | 19°D52 | 18°30 | 9°58 | 29°24 | S 9 | |
| M10 | 1 15 38 | 17° 1'41 | 4♎44 | 8°55 | 23°21 | 23°16 | 24°25 | 1°53 | 27°11 | 11° 7 | 18°58 | 19°53 | 18°27 | 10° 5 | 29°23 | M10 | |
| T 11 | 1 19 35 | 18° 0'41 | 18°12 | 8°11 | 24°33 | 23°55 | 24°37 | 1°59 | 27°13 | 11° 8 | 18°57 | 19°54 | 18°24 | 10°12 | 29°23 | T 11 | |
| W12 | 1 23 31 | 18°59'43 | 1♎25 | 7°36 | 25°45 | 24°35 | 24°50 | 2° 5 | 27°14 | 11° 9 | 18°55 | 19°56 | 18°21 | 10°19 | 29°23 | W12 | |
| T 13 | 1 27 28 | 19°58'47 | 14°24 | 7°11 | 26°57 | 25°14 | 25° 3 | 2°10 | 27°16 | 11°10 | 18°54 | 19°R57 | 18°17 | 10°25 | 29°22 | T 13 | |
| F 14 | 1 31 24 | 20°57'53 | 27°10 | 6°56 | 28° 9 | 25°54 | 25°16 | 2°16 | 27°18 | 11°11 | 18°53 | 19°57 | 18°14 | 10°32 | 29°22 | F 14 | |
| S 15 | 1 35 21 | 21°57'01 | 9♌45 | 6°D51 | 29°20 | 26°34 | 25°29 | 2°22 | 27°20 | 11°12 | 18°52 | 19°55 | 18°11 | 10°39 | 29°21 | S 15 | |
| S 16 | 1 39 18 | 22°56'12 | 22° 9 | 6°57 | 0♌32 | 27°13 | 25°42 | 2°28 | 27°22 | 11°13 | 18°51 | 19°52 | 18° 8 | 10°45 | 29°20 | S 16 | |
| M17 | 1 43 14 | 23°55'24 | 4♎23 | 7°14 | 1°44 | 27°53 | 25°55 | 2°34 | 27°24 | 11°14 | 18°50 | 19°47 | 18° 5 | 10°52 | 29°20 | M17 | |
| T 18 | 1 47 11 | 24°54'39 | 16°29 | 7°40 | 2°55 | 28°32 | 26° 8 | 2°41 | 27°26 | 11°15 | 18°48 | 19°41 | 18° 1 | 10°59 | 29°19 | T 18 | |
| W19 | 1 51 7 | 25°53'55 | 28°28 | 8°16 | 4° 7 | 29°12 | 26°21 | 2°47 | 27°29 | 11°16 | 18°47 | 19°34 | 17°58 | 11° 6 | 29°18 | W19 | |
| T 20 | 1 55 4 | 26°53'13 | 10♌21 | 9° 1 | 5°18 | 29°52 | 26°34 | 2°53 | 27°31 | 11°17 | 18°46 | 19°27 | 17°55 | 11°12 | 29°17 | T 20 | |
| F 21 | 1 59 0 | 27°52'33 | 22°13 | 9°54 | 6°30 | 0♎32 | 26°47 | 2°59 | 27°33 | 11°18 | 18°45 | 19°21 | 17°52 | 11°19 | 29°16 | F 21 | |
| S 22 | 2 2 57 | 28°51'55 | 4♌ 4 | 10°55 | 7°41 | 1°12 | 27° 0 | 3° 5 | 27°35 | 11°19 | 18°44 | 19°17 | 17°49 | 11°26 | 29°15 | S 22 | |
| S 23 | 2 6 53 | 29°51'19 | 16° 1 | 12° 2 | 8°52 | 1°52 | 27°13 | 3°12 | 27°38 | 11°19 | 18°43 | 19°14 | 17°46 | 11°33 | 29°14 | S 23 | |
| M24 | 2 10 50 | 0♎50'45 | 28° 6 | 13°15 | 10° 4 | 2°31 | 27°26 | 3°18 | 27°40 | 11°20 | 18°41 | 19°D13 | 17°42 | 11°39 | 29°12 | M24 | |
| T 25 | 2 14 47 | 1°50'12 | 10♋26 | 14°33 | 11°15 | 3°11 | 27°39 | 3°25 | 27°42 | 11°21 | 18°40 | 19°13 | 17°39 | 11°46 | 29°11 | T 25 | |
| W26 | 2 18 43 | 2°49'41 | 23° 4 | 15°55 | 12°26 | 3°51 | 27°52 | 3°31 | 27°45 | 11°21 | 18°39 | 19°14 | 17°36 | 11°53 | 29°10 | W26 | |
| T 27 | 2 22 40 | 3°49'11 | 6♌ 5 | 17°21 | 13°37 | 4°31 | 28° 5 | 3°38 | 27°47 | 11°22 | 18°38 | 19°15 | 17°33 | 11°59 | 29° 8 | T 27 | |
| F 28 | 2 26 36 | 4°48'44 | 19°33 | 18°51 | 14°48 | 5°11 | 28°18 | 3°44 | 27°50 | 11°22 | 18°37 | 19°R16 | 17°30 | 12° 6 | 29° 7 | F 28 | |
| S 29 | 2 30 33 | 5°48'18 | 3°Y28 | 20°22 | 15°59 | 5°52 | 28°31 | 3°51 | 27°52 | 11°23 | 18°36 | 19°15 | 17°26 | 12°13 | 29° 5 | S 29 | |
| S 30 | 2 34 29 | 6°47'53 | 17°51 | 21°56 | 17°10 | 6°32 | 28°44 | 3°57 | 27°55 | 11°24 | 18°35 | 19°12 | 17°23 | 12°20 | 29° 4 | S 30 | |
| M31 | 2 38 26 | 7♎47'31 | 2♌36 | 23♌32 | 18♌21 | 7♎12 | 28♌57 | 4♌ 4 | 27♌58 | 11♎24 | 18°Y34 | 19°Y 7 | 17♎20 | 12♌26 | 29♎ 2 | M31 | |

Delta T = 18m36s

ASTRODIENST EPHEMERIS for the year 2574
geocentric

NOVEMBER 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|------|-------|-------|--------|--------|--------|--------|--------|------|---|-----|
| T 1 | 2 42 22 | 8♁47'11 | 17♄38 | 25♁ 9 | 19♁32 | 7♁52 | 29♁10 | 4♁11 | 28♁ 0 | 11♁24 | 18°R33 | 19°R 0 | 17♁17 | 12♁33 | 29°R 0 | T 1 | | |
| W 2 | 2 46 19 | 9°46'53 | 2♁46 | 26°47 | 20°43 | 8°32 | 29°23 | 4°17 | 28° 3 | 11°25 | 18°Y31 | 18♁52 | 17°14 | 12°40 | 28♁58 | W 2 | | |
| T 3 | 2 50 15 | 10°46'37 | 17°50 | 28°26 | 21°54 | 9°13 | 29°36 | 4°24 | 28° 6 | 11°25 | 18°30 | 18°45 | 17°11 | 12°46 | 28°56 | T 3 | | |
| F 4 | 2 54 12 | 11°46'23 | 2♁42 | 0♁ 6 | 23° 4 | 9°53 | 29°49 | 4°31 | 28° 8 | 11°26 | 18°29 | 18°38 | 17° 7 | 12°53 | 28°54 | F 4 | | |
| S 5 | 2 58 9 | 12°46'11 | 17°13 | 1°46 | 24°15 | 10°33 | 0♁ 1 | 4°38 | 28°11 | 11°26 | 18°28 | 18°33 | 17° 4 | 13° 0 | 28°52 | S 5 | | |
| S 6 | 3 2 5 | 13°46'01 | 1♁22 | 3°26 | 25°25 | 11°14 | 0°14 | 4°44 | 28°14 | 11°26 | 18°27 | 18°30 | 17° 1 | 13° 7 | 28°50 | S 6 | | |
| M 7 | 3 6 2 | 14°45'54 | 15° 6 | 5° 6 | 26°36 | 11°54 | 0°27 | 4°51 | 28°17 | 11°26 | 18°26 | 18°D30 | 16°58 | 13°13 | 28°48 | M 7 | | |
| T 8 | 3 9 58 | 15°45'49 | 28°26 | 6°46 | 27°46 | 12°35 | 0°40 | 4°58 | 28°20 | 11°27 | 18°25 | 18°30 | 16°55 | 13°20 | 28°46 | T 8 | | |
| W 9 | 3 13 55 | 16°45'46 | 11♁27 | 8°26 | 28°56 | 13°15 | 0°53 | 5° 5 | 28°23 | 11°27 | 18°24 | 18°31 | 16°52 | 13°27 | 28°43 | W 9 | | |
| T 10 | 3 17 51 | 17°45'45 | 24°10 | 10° 6 | 0♁ 7 | 13°56 | 1° 5 | 5°12 | 28°26 | 11°27 | 18°23 | 18°R31 | 16°48 | 13°34 | 28°41 | T 10 | | |
| F 11 | 3 21 48 | 18°45'46 | 6♁39 | 11°46 | 1°17 | 14°36 | 1°18 | 5°19 | 28°29 | 11°27 | 18°22 | 18°29 | 16°45 | 13°40 | 28°39 | F 11 | | |
| S 12 | 3 25 44 | 19°45'49 | 18°58 | 13°25 | 2°27 | 15°17 | 1°31 | 5°26 | 28°32 | 11°27 | 18°21 | 18°25 | 16°42 | 13°47 | 28°36 | S 12 | | |
| S 13 | 3 29 41 | 20°45'54 | 1♁ 8 | 15° 4 | 3°37 | 15°58 | 1°43 | 5°33 | 28°35 | 11°27 | 18°20 | 18°18 | 16°39 | 13°54 | 28°34 | S 13 | | |
| M14 | 3 33 38 | 21°46'01 | 13°12 | 16°43 | 4°47 | 16°39 | 1°56 | 5°40 | 28°38 | 11°27 | 18°19 | 18° 8 | 16°36 | 14° 0 | 28°31 | M14 | | |
| T 15 | 3 37 34 | 22°46'10 | 25°11 | 18°21 | 5°57 | 17°19 | 2° 9 | 5°47 | 28°41 | 11°27 | 18°18 | 17°56 | 16°32 | 14° 7 | 28°29 | T 15 | | |
| W16 | 3 41 31 | 23°46'21 | 7♁ 5 | 20° 0 | 7° 6 | 18° 0 | 2°21 | 5°54 | 28°44 | 11°27 | 18°17 | 17°43 | 16°29 | 14°14 | 28°26 | W16 | | |
| T 17 | 3 45 27 | 24°46'34 | 18°57 | 21°37 | 8°16 | 18°41 | 2°34 | 6° 1 | 28°47 | 11°27 | 18°16 | 17°30 | 16°26 | 14°21 | 28°23 | T 17 | | |
| F 18 | 3 49 24 | 25°46'48 | 0♁48 | 23°15 | 9°26 | 19°22 | 2°46 | 6° 8 | 28°51 | 11°27 | 18°16 | 17°18 | 16°23 | 14°27 | 28°20 | F 18 | | |
| S 19 | 3 53 20 | 26°47'03 | 12°40 | 24°52 | 10°35 | 20° 3 | 2°59 | 6°15 | 28°54 | 11°27 | 18°15 | 17° 8 | 16°20 | 14°34 | 28°18 | S 19 | | |
| S 20 | 3 57 17 | 27°47'21 | 24°37 | 26°28 | 11°44 | 20°44 | 3°11 | 6°22 | 28°57 | 11°26 | 18°14 | 17° 0 | 16°17 | 14°41 | 28°15 | S 20 | | |
| M21 | 4 1 13 | 28°47'39 | 6♁40 | 28° 5 | 12°54 | 21°25 | 3°23 | 6°30 | 29° 0 | 11°26 | 18°13 | 16°56 | 16°13 | 14°47 | 28°12 | M21 | | |
| T 22 | 4 5 10 | 29°47'59 | 18°56 | 29°41 | 14° 3 | 22° 6 | 3°36 | 6°37 | 29° 4 | 11°26 | 18°12 | 16°53 | 16°10 | 14°54 | 28° 9 | T 22 | | |
| W23 | 4 9 7 | 0♁48'21 | 1♁28 | 1♁17 | 15°12 | 22°47 | 3°48 | 6°44 | 29° 7 | 11°26 | 18°11 | 16°D53 | 16° 7 | 15° 1 | 28° 6 | W23 | | |
| T 24 | 4 13 3 | 1°48'44 | 14°22 | 2°52 | 16°21 | 23°28 | 4° 0 | 6°51 | 29°10 | 11°25 | 18°10 | 16°R53 | 16° 4 | 15° 8 | 28° 3 | T 24 | | |
| F 25 | 4 17 0 | 2°49'08 | 27°41 | 4°27 | 17°29 | 24° 9 | 4°13 | 6°58 | 29°14 | 11°25 | 18°10 | 16°53 | 16° 1 | 15°14 | 28° 0 | F 25 | | |
| S 26 | 4 20 56 | 3°49'33 | 11°Y30 | 6° 2 | 18°38 | 24°51 | 4°25 | 7° 5 | 29°17 | 11°24 | 18° 9 | 16°51 | 15°58 | 15°21 | 27°57 | S 26 | | |
| S 27 | 4 24 53 | 4°50'00 | 25°49 | 7°36 | 19°46 | 25°32 | 4°37 | 7°12 | 29°20 | 11°24 | 18° 8 | 16°46 | 15°54 | 15°28 | 27°54 | S 27 | | |
| M28 | 4 28 49 | 5°50'28 | 10♁35 | 9°11 | 20°55 | 26°13 | 4°49 | 7°19 | 29°24 | 11°24 | 18° 7 | 16°39 | 15°51 | 15°35 | 27°50 | M28 | | |
| T 29 | 4 32 46 | 6°50'57 | 25°43 | 10°45 | 22° 3 | 26°55 | 5° 1 | 7°27 | 29°27 | 11°23 | 18° 7 | 16°29 | 15°48 | 15°41 | 27°47 | T 29 | | |
| W30 | 4 36 42 | 7°51'28 | 11♁ 4 | 12♁19 | 23♁11 | 27♁36 | 5♁13 | 7°34 | 29°31 | 11♁23 | 18°Y 6 | 16°Y18 | 15°Y45 | 15°Y48 | 27♁44 | W30 | | |

Delta T = 18m36s

DECEMBER 2574

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|------|---|-----|
| T 1 | 4 40 39 | 8♁52'01 | 26♁25 | 13♁53 | 24♁19 | 28♁18 | 5♁25 | 7♁41 | 29♁34 | 11°R22 | 18°R 5 | 16°R 7 | 15♁42 | 15♁55 | 27°R41 | T 1 | | |
| F 2 | 4 44 36 | 9°52'35 | 11♁35 | 15°26 | 25°27 | 28°59 | 5°36 | 7°48 | 29°38 | 11♁21 | 18°Y 5 | 15♁56 | 15°38 | 16° 1 | 27♁37 | F 2 | | |
| S 3 | 4 48 32 | 10°53'10 | 17° 0 | 17° 0 | 26°34 | 29°41 | 5°48 | 7°55 | 29°41 | 11°21 | 18° 4 | 15°48 | 15°35 | 16° 8 | 27°34 | S 3 | | |
| S 4 | 4 52 29 | 11°53'47 | 10♁47 | 18°33 | 27°41 | 0♁22 | 6° 0 | 8° 2 | 29°45 | 11°20 | 18° 3 | 15°43 | 15°32 | 16°15 | 27°31 | S 4 | | |
| M 5 | 4 56 25 | 12°54'26 | 24°40 | 20° 6 | 28°49 | 1° 4 | 6°12 | 8°10 | 29°48 | 11°19 | 18° 3 | 15°41 | 15°29 | 16°22 | 27°27 | M 5 | | |
| T 6 | 5 0 22 | 13°55'07 | 8♁ 5 | 21°39 | 29°56 | 1°45 | 6°23 | 8°17 | 29°52 | 11°19 | 18° 2 | 15°40 | 15°26 | 16°28 | 27°24 | T 6 | | |
| W 7 | 5 4 18 | 14°55'48 | 21° 4 | 23°12 | 1♁ 3 | 2°27 | 6°35 | 8°24 | 29°55 | 11°18 | 18° 2 | 15°40 | 15°23 | 16°35 | 27°20 | W 7 | | |
| T 8 | 5 8 15 | 15°56'32 | 3♁43 | 24°45 | 2° 9 | 3° 9 | 6°46 | 8°31 | 29°59 | 11°17 | 18° 1 | 15°39 | 15°19 | 16°42 | 27°17 | T 8 | | |
| F 9 | 5 12 11 | 16°57'17 | 16° 4 | 26°18 | 3°16 | 3°51 | 6°58 | 8°38 | 0♁ 2 | 11°16 | 18° 1 | 15°37 | 15°16 | 16°49 | 27°13 | F 9 | | |
| S 10 | 5 16 8 | 17°58'03 | 28°14 | 27°50 | 4°22 | 4°32 | 7° 9 | 8°45 | 0° 6 | 11°15 | 18° 0 | 15°32 | 15°13 | 16°55 | 27°10 | S 10 | | |
| S 11 | 5 20 5 | 18°58'51 | 10♁15 | 29°23 | 5°28 | 5°14 | 7°20 | 8°52 | 0°10 | 11°15 | 18° 0 | 15°24 | 15°10 | 17° 2 | 27° 6 | S 11 | | |
| M12 | 5 24 1 | 19°59'41 | 22°11 | 0♁55 | 6°34 | 5°56 | 7°31 | 8°59 | 0°13 | 11°14 | 17°59 | 15°12 | 15° 7 | 17° 9 | 27° 3 | M12 | | |
| T 13 | 5 27 58 | 21° 0'31 | 4♁ 4 | 2°27 | 7°39 | 6°38 | 7°42 | 9° 6 | 0°17 | 11°13 | 17°59 | 14°59 | 15° 4 | 17°15 | 26°59 | T 13 | | |
| W14 | 5 31 54 | 22° 1'23 | 15°56 | 3°59 | 8°45 | 7°20 | 7°53 | 9°13 | 0°21 | 11°12 | 17°58 | 14°44 | 15° 0 | 17°22 | 26°56 | W14 | | |
| T 15 | 5 35 51 | 23° 2'16 | 27°49 | 5°31 | 9°50 | 8° 2 | 8° 4 | 9°21 | 0°24 | 11°11 | 17°58 | 14°29 | 14°57 | 17°29 | 26°52 | T 15 | | |
| F 16 | 5 39 47 | 24° 3'10 | 9♁43 | 7° 3 | 10°55 | 8°44 | 8°15 | 9°28 | 0°28 | 11°10 | 17°57 | 14°15 | 14°54 | 17°36 | 26°48 | F 16 | | |
| S 17 | 5 43 44 | 25° 4'05 | 21°39 | 8°35 | 11°59 | 9°27 | 8°26 | 9°35 | 0°31 | 11° 9 | 17°57 | 14° 3 | 14°51 | 17°42 | 26°45 | S 17 | | |
| S 18 | 5 47 41 | 26° 5'00 | 3♁41 | 10° 6 | 13° 4 | 10° 9 | 8°37 | 9°42 | 0°35 | 11° 8 | 17°57 | 13°54 | 14°48 | 17°49 | 26°41 | S 18 | | |
| M19 | 5 51 37 | 27° 5'57 | 15°49 | 11°37 | 14° 8 | 10°51 | 8°47 | 9°48 | 0°39 | 11° 7 | 17°56 | 13°48 | 14°44 | 17°56 | 26°38 | M19 | | |
| T 20 | 5 55 34 | 28° 6'54 | 28° 7 | 13° 7 | 15°12 | 11°33 | 8°58 | 9°55 | 0°42 | 11° 5 | 17°56 | 13°44 | 14°41 | 18° 2 | 26°34 | T 20 | | |
| W21 | 5 59 30 | 29° 7'51 | 10♁39 | 14°38 | 16°15 | 12°15 | 9° 8 | 10° 2 | 0°46 | 11° 4 | 17°56 | 13°D43 | 14°38 | 18° 9 | 26°31 | W21 | | |
| T 22 | 6 3 27 | 0♁ 8'50 | 23°29 | 16° 7 | 17°18 | 12°58 | 9°19 | 10° 9 | 0°50 | 11° 3 | 17°56 | 13°R43 | 14°35 | 18°16 | 26°27 | T 22 | | |
| F 23 | 6 7 23 | 1° 9'48 | 6°Y41 | 17°36 | 18°21 | 13°40 | 9°29 | 10°16 | 0°53 | 11° 2 | 17°55 | 13°43 | 14°32 | 18°23 | 26°23 | F 23 | | |
| S 24 | 6 11 20 | 2°10'48 | 20°18 | 19° 4 | 19°24 | 14°23 | 9°39 | 10°23 | 0°57 | 11° 1 | 17°55 | 13°42 | 14°29 | 18°29 | 26°20 | S 24 | | |
| S 25 | 6 15 16 | 3°11'47 | 4♁23 | 20°31 | 20°26 | 15° 5 | 9°49 | 10°30 | 1° 1 | 11° 0 | 17°55 | 13°39 | 14°25 | 18°36 | 26°16 | S 25 | | |
| M26 | 6 19 13 | 4°12'47 | 18°56 | 21°58 | 21°28 | 15°48 | 9°59 | 10°36 | 1° 4 | 10°58 | 17°55 | 13°32 | 14°22 | 18°43 | 26°13 | M26 | | |
| T 27 | 6 23 10 | 5°13'48 | 3♁52 | 23°22 | 22°29 | 16°30 | 10° 9 | 10°43 | 1° 8 | 10°57 | 17°55 | 13°24 | 14°19 | 18°50 | 26° 9 | T 27 | | |
| W28 | 6 27 6 | 6°14'49 | 19° 5 | 24°45 | 23°30 | 17°13 | 10°19 | 10°50 | 1°12 | 10°56 | 17°55 | 13°14 | 14°16 | 18°56 | 26° 6 | W28 | | |
| T 29 | 6 31 3 | 7°15'51 | 4♁23 | 26° 7 | 24°30 | 17°55 | 10°29 | 10°57 | 1°15 | 10°54 | 17°55 | 13° 4 | 14°13 | 19° 3 | 26° 2 | T 29 | | |
| F 30 | 6 34 59 | 8°16'53 | 19°37 | 27°26 | 25°31 | 18°38 | 10°38 | 11° 3 | 1°19 | 10°53 | 17°55 | 12°54 | 14°10 | 19°10 | 25°59 | F 30 | | |
| S 31 | 6 38 56 | 9♁17'56 | 4♁34 | 28♁42 | 26♁30 | 19♁21 | 10♁48 | 11♁10 | 1♁23 | 10♁52 | 17°Y54 | 12♁Y7 | 14♁Y 6 | 19♁Y16 | 25♁Y55 | S 31 | | |

Delta T = 18m36s

ASTRODIENST EPHEMERIS for the year 2575
geocentric

JANUARY 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|-------|------|--------|--------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| S 1 | 6 42 52 | 10♁18'59 | 19♏ 7 | 29♄55 | 27♁30 | 20♁ 3 | 10♁.57 | 11♁16 | 1♁26 | 10°R50 | 17°D54 | 12°R42 | 14♏ 3 | 19♁23 | 25°R52 | S 1 | | | | | | | | |
| M 2 | 6 46 49 | 11°20'03 | 3♏12 | 1♁ 5 | 28°28 | 20°46 | 11° 6 | 11°23 | 1°30 | 10♁.49 | 17°Y54 | 12♏39 | 14° 0 | 19°30 | 25♁48 | M 2 | | | | | | | | |
| T 3 | 6 50 45 | 12°21'08 | 16°47 | 2°11 | 29°27 | 21°29 | 11°16 | 11°29 | 1°33 | 10°47 | 17°55 | 12°D39 | 13°57 | 19°37 | 25°45 | T 3 | | | | | | | | |
| W 4 | 6 54 42 | 13°22'13 | 29°54 | 3°12 | 0♁24 | 22°12 | 11°25 | 11°36 | 1°37 | 10°46 | 17°55 | 12°40 | 13°54 | 19°43 | 25°41 | W 4 | | | | | | | | |
| T 5 | 6 58 39 | 14°23'19 | 12♁36 | 4° 7 | 1°22 | 22°55 | 11°33 | 11°42 | 1°41 | 10°44 | 17°55 | 12°R40 | 13°50 | 19°50 | 25°38 | T 5 | | | | | | | | |
| F 6 | 7 2 35 | 15°24'25 | 25° 0 | 4°56 | 2°18 | 23°38 | 11°42 | 11°49 | 1°44 | 10°43 | 17°55 | 12°40 | 13°47 | 19°57 | 25°35 | F 6 | | | | | | | | |
| S 7 | 7 6 32 | 16°25'32 | 7♁ 8 | 5°38 | 3°14 | 24°21 | 11°51 | 11°55 | 1°48 | 10°41 | 17°55 | 12°37 | 13°44 | 20° 4 | 25°31 | S 7 | | | | | | | | |
| S 8 | 7 10 28 | 17°26'39 | 19° 7 | 6°11 | 4°10 | 25° 4 | 12° 0 | 12° 1 | 1°51 | 10°40 | 17°55 | 12°33 | 13°41 | 20°10 | 25°28 | S 8 | | | | | | | | |
| M 9 | 7 14 25 | 18°27'47 | 1♁ 0 | 6°36 | 5° 5 | 25°47 | 12° 8 | 12° 8 | 1°55 | 10°38 | 17°55 | 12°25 | 13°38 | 20°17 | 25°25 | M 9 | | | | | | | | |
| T 10 | 7 18 21 | 19°28'56 | 12°50 | 6°50 | 5°59 | 26°30 | 12°16 | 12°14 | 1°58 | 10°37 | 17°55 | 12°16 | 13°35 | 20°24 | 25°22 | T 10 | | | | | | | | |
| W11 | 7 22 18 | 20°30'04 | 24°42 | 6°R55 | 6°53 | 27°13 | 12°25 | 12°20 | 2° 2 | 10°35 | 17°56 | 12° 6 | 13°31 | 20°30 | 25°19 | W11 | | | | | | | | |
| T 12 | 7 26 14 | 21°31'13 | 6♁37 | 6°47 | 7°46 | 27°57 | 12°33 | 12°26 | 2° 6 | 10°34 | 17°56 | 11°55 | 13°28 | 20°37 | 25°15 | T 12 | | | | | | | | |
| F 13 | 7 30 11 | 22°32'22 | 18°36 | 6°28 | 8°38 | 28°40 | 12°41 | 12°32 | 2° 9 | 10°32 | 17°56 | 11°45 | 13°25 | 20°44 | 25°12 | F 13 | | | | | | | | |
| S 14 | 7 34 8 | 23°33'31 | 0♁41 | 5°57 | 9°30 | 29°23 | 12°49 | 12°38 | 2°12 | 10°31 | 17°56 | 11°37 | 13°22 | 20°51 | 25° 9 | S 14 | | | | | | | | |
| S 15 | 7 38 4 | 24°34'40 | 12°53 | 5°15 | 10°20 | 0♁ 7 | 12°56 | 12°44 | 2°16 | 10°29 | 17°57 | 11°31 | 13°19 | 20°57 | 25° 6 | S 15 | | | | | | | | |
| M16 | 7 42 1 | 25°35'48 | 25°14 | 4°21 | 11°10 | 0°50 | 13° 4 | 12°50 | 2°19 | 10°27 | 17°57 | 11°27 | 13°16 | 21° 4 | 25° 3 | M16 | | | | | | | | |
| T 17 | 7 45 57 | 26°36'57 | 7♁44 | 3°19 | 11°59 | 1°33 | 13°11 | 12°56 | 2°23 | 10°26 | 17°57 | 11°D25 | 13°12 | 21°11 | 25° 0 | T 17 | | | | | | | | |
| W18 | 7 49 54 | 27°38'05 | 20°27 | 2° 8 | 12°48 | 2°17 | 13°18 | 13° 2 | 2°26 | 10°24 | 17°58 | 11°26 | 13° 9 | 21°17 | 24°58 | W18 | | | | | | | | |
| T 19 | 7 53 50 | 28°39'12 | 3°Y23 | 0°52 | 13°35 | 3° 0 | 13°26 | 13° 7 | 2°30 | 10°22 | 17°58 | 11°27 | 13° 6 | 21°24 | 24°55 | T 19 | | | | | | | | |
| F 20 | 7 57 47 | 29°40'19 | 16°37 | 29♁32 | 14°21 | 3°44 | 13°33 | 13°13 | 2°33 | 10°21 | 17°59 | 11°28 | 13° 3 | 21°31 | 24°52 | F 20 | | | | | | | | |
| S 21 | 8 1 43 | 0♁41'26 | 0♁10 | 28°13 | 15° 7 | 4°27 | 13°40 | 13°19 | 2°36 | 10°19 | 17°59 | 11°R29 | 13° 0 | 21°38 | 24°49 | S 21 | | | | | | | | |
| S 22 | 8 5 40 | 1°42'32 | 14° 4 | 26°55 | 15°51 | 5°11 | 13°46 | 13°24 | 2°40 | 10°17 | 17°59 | 11°28 | 12°56 | 21°44 | 24°47 | S 22 | | | | | | | | |
| M23 | 8 9 37 | 2°43'37 | 28°19 | 25°41 | 16°34 | 5°55 | 13°53 | 13°30 | 2°43 | 10°16 | 18° 0 | 11°26 | 12°53 | 21°51 | 24°44 | M23 | | | | | | | | |
| T 24 | 8 13 33 | 3°44'42 | 12♁54 | 24°33 | 17°17 | 6°38 | 13°59 | 13°35 | 2°46 | 10°14 | 18° 0 | 11°22 | 12°50 | 21°58 | 24°41 | T 24 | | | | | | | | |
| W25 | 8 17 30 | 4°45'46 | 27°43 | 23°33 | 17°58 | 7°22 | 14° 6 | 13°40 | 2°49 | 10°12 | 18° 1 | 11°16 | 12°47 | 22° 5 | 24°39 | W25 | | | | | | | | |
| T 26 | 8 21 26 | 5°46'50 | 12♁41 | 22°42 | 18°37 | 8° 6 | 14°12 | 13°46 | 2°53 | 10°11 | 18° 2 | 11°11 | 12°44 | 22°11 | 24°37 | T 26 | | | | | | | | |
| F 27 | 8 25 23 | 6°47'53 | 27°37 | 21°59 | 19°16 | 8°50 | 14°18 | 13°51 | 2°56 | 10° 9 | 18° 2 | 11° 6 | 12°41 | 22°18 | 24°34 | F 27 | | | | | | | | |
| S 28 | 8 29 19 | 7°48'55 | 12♁24 | 21°27 | 19°53 | 9°34 | 14°24 | 13°56 | 2°59 | 10° 7 | 18° 3 | 11° 2 | 12°37 | 22°25 | 24°32 | S 28 | | | | | | | | |
| S 29 | 8 33 16 | 8°49'57 | 26°54 | 21° 3 | 20°29 | 10°18 | 14°29 | 14° 1 | 3° 2 | 10° 6 | 18° 3 | 10°59 | 12°34 | 22°31 | 24°30 | S 29 | | | | | | | | |
| M30 | 8 37 12 | 9°50'58 | 11♏ 0 | 20°49 | 21° 3 | 11° 1 | 14°35 | 14° 6 | 3° 5 | 10° 4 | 18° 4 | 10°D58 | 12°31 | 22°38 | 24°27 | M30 | | | | | | | | |
| T 31 | 8 41 9 | 10♁51'59 | 24♏41 | 20°D44 | 21♁36 | 11♁45 | 14♁.40 | 14♁11 | 3♁ 8 | 10♁ 2 | 18°Y 5 | 10♏59 | 12♏28 | 22♁45 | 24♁25 | T 31 | | | | | | | | |

Delta T = 18m36s

FEBRUARY 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|--------|-------|--------|-------|------|--------|--------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| W 1 | 8 45 6 | 11♁52'59 | 7♁55 | 20♁47 | 22♁ 8 | 12♁29 | 14♁.45 | 14♁16 | 3♁12 | 10°R 1 | 18°Y 5 | 11♏ 1 | 12♏25 | 22♁52 | 24°R23 | W 1 | | | | | | | | |
| T 2 | 8 49 2 | 12°53'59 | 20°45 | 20°57 | 22°38 | 13°13 | 14°50 | 14°21 | 3°15 | 9♁59 | 18° 6 | 11° 2 | 12°21 | 22°58 | 24♁21 | T 2 | | | | | | | | |
| F 3 | 8 52 59 | 13°54'58 | 3♁14 | 21°15 | 23° 6 | 13°58 | 14°55 | 14°26 | 3°18 | 9°57 | 18° 7 | 11° 4 | 12°18 | 23° 5 | 24°19 | F 3 | | | | | | | | |
| S 4 | 8 56 55 | 14°55'57 | 15°27 | 21°39 | 23°32 | 14°42 | 15° 0 | 14°30 | 3°21 | 9°55 | 18° 8 | 11°R 4 | 12°15 | 23°12 | 24°17 | S 4 | | | | | | | | |
| S 5 | 9 0 52 | 15°56'55 | 27°28 | 22° 9 | 23°57 | 15°26 | 15° 4 | 14°35 | 3°23 | 9°54 | 18° 8 | 11° 4 | 12°12 | 23°18 | 24°15 | S 5 | | | | | | | | |
| M 6 | 9 4 48 | 16°57'53 | 9♁21 | 22°44 | 24°20 | 16°10 | 15° 9 | 14°40 | 3°26 | 9°52 | 18° 9 | 11° 2 | 12° 9 | 23°25 | 24°14 | M 6 | | | | | | | | |
| T 7 | 9 8 45 | 17°58'50 | 21°13 | 23°25 | 24°41 | 16°54 | 15°13 | 14°44 | 3°29 | 9°50 | 18°10 | 10°59 | 12° 6 | 23°32 | 24°12 | T 7 | | | | | | | | |
| W 8 | 9 12 41 | 18°59'47 | 3♁ 5 | 24° 9 | 25° 0 | 17°39 | 15°17 | 14°48 | 3°32 | 9°49 | 18°11 | 10°55 | 12° 2 | 23°39 | 24°10 | W 8 | | | | | | | | |
| T 9 | 9 16 38 | 20° 0'43 | 15° 3 | 24°58 | 25°17 | 18°23 | 15°21 | 14°53 | 3°35 | 9°47 | 18°12 | 10°52 | 11°59 | 23°45 | 24° 9 | T 9 | | | | | | | | |
| F 10 | 9 20 35 | 21° 1'38 | 27° 8 | 25°51 | 25°33 | 19° 7 | 15°25 | 14°57 | 3°38 | 9°45 | 18°12 | 10°48 | 11°56 | 23°52 | 24° 7 | F 10 | | | | | | | | |
| S 11 | 9 24 31 | 22° 2'32 | 9♁23 | 26°47 | 25°45 | 19°52 | 15°28 | 15° 1 | 3°40 | 9°44 | 18°13 | 10°45 | 11°53 | 23°59 | 24° 6 | S 11 | | | | | | | | |
| S 12 | 9 28 28 | 23° 3'25 | 21°49 | 27°46 | 25°56 | 20°36 | 15°31 | 15° 5 | 3°43 | 9°42 | 18°14 | 10°43 | 11°50 | 24° 6 | 24° 5 | S 12 | | | | | | | | |
| M13 | 9 32 24 | 24° 4'17 | 4♁27 | 28°47 | 26° 5 | 21°21 | 15°35 | 15° 9 | 3°46 | 9°41 | 18°15 | 10°D42 | 11°47 | 24°12 | 24° 3 | M13 | | | | | | | | |
| T 14 | 9 36 21 | 25° 5'08 | 17°17 | 29°51 | 26°11 | 22° 5 | 15°38 | 15°13 | 3°48 | 9°39 | 18°16 | 10°42 | 11°43 | 24°19 | 24° 2 | T 14 | | | | | | | | |
| W15 | 9 40 17 | 26° 5'58 | 0°Y20 | 0♁58 | 26°14 | 22°50 | 15°40 | 15°17 | 3°51 | 9°37 | 18°17 | 10°43 | 11°40 | 24°26 | 24° 1 | W15 | | | | | | | | |
| T 16 | 9 44 14 | 27° 6'46 | 13°36 | 2° 7 | 26°R16 | 23°34 | 15°43 | 15°20 | 3°54 | 9°36 | 18°18 | 10°44 | 11°37 | 24°32 | 24° 0 | T 16 | | | | | | | | |
| F 17 | 9 48 10 | 28° 7'33 | 27° 5 | 3°17 | 26°15 | 24°19 | 15°45 | 15°24 | 3°56 | 9°34 | 18°19 | 10°45 | 11°34 | 24°39 | 23°59 | F 17 | | | | | | | | |
| S 18 | 9 52 7 | 29° 8'18 | 10♁47 | 4°30 | 26°11 | 25° 3 | 15°48 | 15°28 | 3°59 | 9°32 | 18°20 | 10°46 | 11°31 | 24°46 | 23°58 | S 18 | | | | | | | | |
| S 19 | 9 56 4 | 0♁ 9'02 | 24°41 | 5°44 | 26° 5 | 25°48 | 15°50 | 15°31 | 4° 1 | 9°31 | 18°21 | 10°R47 | 11°27 | 24°53 | 23°57 | S 19 | | | | | | | | |
| M20 | 10 0 0 | 1° 9'45 | 8♁48 | 7° 0 | 25°56 | 26°33 | 15°52 | 15°34 | 4° 3 | 9°29 | 18°22 | 10°47 | 11°24 | 24°59 | 23°56 | M20 | | | | | | | | |
| T 21 | 10 3 57 | 2°10'26 | 23° 5 | 8°17 | 25°45 | 27°17 | 15°53 | 15°38 | 4° 6 | 9°28 | 18°23 | 10°46 | 11°21 | 25° 6 | 23°56 | T 21 | | | | | | | | |
| W22 | 10 7 53 | 3°11'05 | 7♁30 | 9°36 | 25°31 | 28° 2 | 15°55 | 15°41 | 4° 8 | 9°26 | 18°24 | 10°46 | 11°18 | 25°13 | 23°55 | W22 | | | | | | | | |
| T 23 | 10 11 50 | 4°11'42 | 21°58 | 10°56 | 25°15 | 28°47 | 15°56 | 15°44 | 4°10 | 9°25 | 18°25 | 10°45 | 11°15 | 25°19 | 23°55 | T 23 | | | | | | | | |
| F 24 | 10 15 46 | 5°12'18 | 6♁26 | 12°17 | 24°56 | 29°32 | 15°57 | 15°47 | 4°13 | 9°23 | 18°26 | 10°44 | 11°12 | 25°26 | 23°54 | F 24 | | | | | | | | |
| S 25 | 10 19 43 | 6°12'53 | 20°47 | 13°40 | 24°35 | 0♁17 | 15°58 | 15°50 | 4°15 | 9°22 | 18°28 | 10°44 | 11° 8 | 25°33 | 23°54 | S 25 | | | | | | | | |
| S 26 | 10 23 39 | 7°13'26 | 4♏56 | 15° 4 | 24°12 | 1° 2 | 15°59 | 15°53 | 4°17 | 9°20 | 18°29 | 10°D43 | 11° 5 | 25°40 | 23°54 | S 26 | | | | | | | | |
| M27 | 10 27 36 | 8°13'57 | 18°50 | 16°29 | 23°46 | 1°46 | 16° 0 | 15°56 | 4°19 | 9°19 | 18°30 | 10°43 | 11° 2 | 25°46 | 23°53 | M27 | | | | | | | | |
| T 28 | 10 31 33 | 9♁14'27 | 2♁24 | 17♁55 | 23♁19 | 2♁31 | 16♁. 0 | 15♁58 | 4♁21 | 9♁17 | 18°Y31 | 10♏44 | 10♏59 | 25♁53 | 23♁53 | T 28 | | | | | | | | |

Delta T = 18m37s

ASTRODIENST EPHEMERIS for the year 2575
geocentric

MARCH 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|-----------|-------|--------|--------|-------|-------|--------|------|-------|--------|--------|-------|--------|--------|------|
| W 1 | 10 35 29 | 10♋14'55 | 15♊37 | 19♍22 | 22♋R49 | 3♌16 | 16♌0 | 16♌1 | 4♌23 | 9♋R16 | 18♋32 | 10♋R44 | 10♋56 | 26♌0 | 23°D53 | W 1 |
| T 2 | 10 39 26 | 11°15'22 | 28°29 | 20°50 | 22♋18 | 4°1 | 16°R0 | 16°3 | 4°25 | 9♋15 | 18°33 | 10♋44 | 10°53 | 26°6 | 23II53 | T 2 |
| F 3 | 10 43 22 | 12°15'48 | 11♌2 | 22°20 | 21°45 | 4°46 | 16°0 | 16°6 | 4°27 | 9°13 | 18°35 | 10°43 | 10°49 | 26°13 | 23°53 | F 3 |
| S 4 | 10 47 19 | 13°16'13 | 23°19 | 23°50 | 21°11 | 5°32 | 16°0 | 16°8 | 4°29 | 9°12 | 18°36 | 10°43 | 10°46 | 26°20 | 23°53 | S 4 |
| S 5 | 10 51 15 | 14°16'36 | 5♌23 | 25°22 | 20°35 | 6°17 | 15°59 | 16°10 | 4°31 | 9°11 | 18°37 | 10°43 | 10°43 | 26°27 | 23°54 | S 5 |
| M 6 | 10 55 12 | 15°16'58 | 17°18 | 26°54 | 19°59 | 7°2 | 15°59 | 16°12 | 4°32 | 9°9 | 18°38 | 10°D43 | 10°40 | 26°33 | 23°54 | M 6 |
| T 7 | 10 59 8 | 16°17'18 | 29°11 | 28°27 | 19°22 | 7°47 | 15°58 | 16°14 | 4°34 | 9°8 | 18°39 | 10°43 | 10°37 | 26°40 | 23°54 | T 7 |
| W 8 | 11 3 5 | 17°17'38 | 11♌3 | 0♋2 | 18°45 | 8°32 | 15°57 | 16°16 | 4°36 | 9°7 | 18°41 | 10°44 | 10°33 | 26°47 | 23°55 | W 8 |
| T 9 | 11 7 1 | 18°17'55 | 23°3 | 1°37 | 18°7 | 9°17 | 15°55 | 16°18 | 4°37 | 9°5 | 18°42 | 10°44 | 10°30 | 26°53 | 23°55 | T 9 |
| F 10 | 11 10 58 | 19°18'11 | 5♌12 | 3°14 | 17°30 | 10°3 | 15°54 | 16°19 | 4°39 | 9°4 | 18°43 | 10°45 | 10°27 | 27°0 | 23°56 | F 10 |
| S 11 | 11 14 55 | 20°18'26 | 17°34 | 4°51 | 16°53 | 10°48 | 15°52 | 16°21 | 4°40 | 9°3 | 18°45 | 10°46 | 10°24 | 27°7 | 23°57 | S 11 |
| S 12 | 11 18 51 | 21°18'39 | 0♋11 | 6°30 | 16°17 | 11°33 | 15°50 | 16°22 | 4°42 | 9°2 | 18°46 | 10°47 | 10°21 | 27°14 | 23°57 | S 12 |
| M13 | 11 22 48 | 22°18'50 | 13°6 | 8°9 | 15°41 | 12°19 | 15°48 | 16°24 | 4°43 | 9°1 | 18°47 | 10°R47 | 10°18 | 27°20 | 23°58 | M13 |
| T 14 | 11 26 44 | 23°19'00 | 26°18 | 9°50 | 15°6 | 13°4 | 15°46 | 16°25 | 4°45 | 9°0 | 18°49 | 10°47 | 10°14 | 27°27 | 23°59 | T 14 |
| W15 | 11 30 41 | 24°19'07 | 9♋46 | 11°32 | 14°33 | 13°49 | 15°43 | 16°26 | 4°46 | 8°59 | 18°50 | 10°45 | 10°11 | 27°34 | 24°0 | W15 |
| T 16 | 11 34 37 | 25°19'13 | 23°29 | 13°15 | 14°1 | 14°35 | 15°41 | 16°27 | 4°47 | 8°57 | 18°51 | 10°44 | 10°8 | 27°40 | 24°1 | T 16 |
| F 17 | 11 38 34 | 26°19'17 | 7♌25 | 14°59 | 13°31 | 15°20 | 15°38 | 16°28 | 4°49 | 8°56 | 18°53 | 10°42 | 10°5 | 27°47 | 24°2 | F 17 |
| S 18 | 11 42 30 | 27°19'19 | 21°28 | 16°44 | 13°3 | 16°6 | 15°35 | 16°29 | 4°50 | 8°55 | 18°54 | 10°39 | 10°2 | 27°54 | 24°4 | S 18 |
| S 19 | 11 46 27 | 28°19'19 | 5♌38 | 18°30 | 12°36 | 16°51 | 15°32 | 16°30 | 4°51 | 8°54 | 18°55 | 10°38 | 9°58 | 28°1 | 24°5 | S 19 |
| M20 | 11 50 24 | 29°19'17 | 19°50 | 20°17 | 12°12 | 17°36 | 15°29 | 16°30 | 4°52 | 8°53 | 18°57 | 10°37 | 9°55 | 28°7 | 24°6 | M20 |
| T 21 | 11 54 20 | 0♋19'12 | 4♌2 | 22°6 | 11°50 | 18°22 | 15°25 | 16°31 | 4°53 | 8°52 | 18°58 | 10°D36 | 9°52 | 28°14 | 24°8 | T 21 |
| W22 | 11 58 17 | 1°19'06 | 18°11 | 23°55 | 11°30 | 19°8 | 15°22 | 16°31 | 4°54 | 8°52 | 18°59 | 10°37 | 9°49 | 28°21 | 24°9 | W22 |
| T 23 | 12 2 13 | 2°18'57 | 2♌17 | 25°46 | 11°12 | 19°53 | 15°18 | 16°32 | 4°55 | 8°51 | 19°1 | 10°38 | 9°46 | 28°27 | 24°11 | T 23 |
| F 24 | 12 6 10 | 3°18'46 | 16°16 | 27°38 | 10°57 | 20°39 | 15°14 | 16°32 | 4°56 | 8°50 | 19°2 | 10°40 | 9°43 | 28°34 | 24°12 | F 24 |
| S 25 | 12 10 6 | 4°18'33 | 0♌8 | 29°31 | 10°45 | 21°24 | 15°10 | 16°32 | 4°57 | 8°49 | 19°4 | 10°41 | 9°39 | 28°41 | 24°14 | S 25 |
| S 26 | 12 14 3 | 5°18'17 | 13°49 | 1°Y25 | 10°34 | 22°10 | 15°5 | 16°R32 | 4°57 | 8°48 | 19°5 | 10°R41 | 9°36 | 28°48 | 24°16 | S 26 |
| M27 | 12 17 59 | 6°18'00 | 27°19 | 3°20 | 10°27 | 22°55 | 15°1 | 16°32 | 4°58 | 8°47 | 19°7 | 10°40 | 9°33 | 28°54 | 24°18 | M27 |
| T 28 | 12 21 56 | 7°17'40 | 10♌35 | 5°17 | 10°22 | 23°41 | 14°56 | 16°32 | 4°59 | 8°47 | 19°8 | 10°38 | 9°30 | 29°1 | 24°20 | T 28 |
| W29 | 12 25 53 | 8°17'19 | 23°36 | 7°14 | 10°19 | 24°27 | 14°51 | 16°32 | 4°59 | 8°46 | 19°9 | 10°34 | 9°27 | 29°8 | 24°22 | W29 |
| T 30 | 12 29 49 | 9°16'55 | 6♌21 | 9°13 | 10°D18 | 25°12 | 14°46 | 16°31 | 5°0 | 8°45 | 19°11 | 10°30 | 9°24 | 29°14 | 24°24 | T 30 |
| F 31 | 12 33 46 | 10°Y16'30 | 18♌51 | 11°Y12 | 10♋20 | 25°58 | 14♌41 | 16°31 | 5°0 | 8♌45 | 19°Y12 | 10♋25 | 9°Y20 | 29°Y21 | 24II26 | F 31 |

Delta T = 18m37s

APRIL 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|-----------|-------|--------|-------|-------|--------|--------|------|-------|--------|--------|-------|--------|--------|------|
| S 1 | 12 37 42 | 11°Y16'04 | 1♌7 | 13°Y12 | 10♋25 | 26°54 | 14°R36 | 16°R30 | 5°3 | 8°R44 | 19°Y14 | 10°R20 | 9°Y17 | 29°Y28 | 24II28 | S 1 |
| S 2 | 12 41 39 | 12°15'35 | 13°11 | 15°13 | 10°32 | 27°30 | 14♌31 | 16°30 | 5°1 | 8♌44 | 19°15 | 10°Y15 | 9°14 | 29°35 | 24°30 | S 2 |
| M 3 | 12 45 35 | 13°15'05 | 25°8 | 17°14 | 10°40 | 28°15 | 14°25 | 16°29 | 5°2 | 8°43 | 19°17 | 10°12 | 9°11 | 29°41 | 24°33 | M 3 |
| T 4 | 12 49 32 | 14°14'32 | 7♌0 | 19°16 | 10°52 | 29°1 | 14°19 | 16°28 | 5°2 | 8°43 | 19°18 | 10°11 | 9°8 | 29°48 | 24°35 | T 4 |
| W 5 | 12 53 28 | 15°13'59 | 18°53 | 21°18 | 11°5 | 29°47 | 14°14 | 16°27 | 5°2 | 8°42 | 19°19 | 10°D10 | 9°4 | 29°55 | 24°38 | W 5 |
| T 6 | 12 57 25 | 16°13'23 | 0♌51 | 23°20 | 11°20 | 0♋33 | 14°8 | 16°26 | 5°2 | 8°42 | 19°21 | 10°11 | 9°1 | 0♌1 | 24°40 | T 6 |
| F 7 | 13 1 21 | 17°12'46 | 13°0 | 25°22 | 11°38 | 1°18 | 14°2 | 16°25 | 5°3 | 8°41 | 19°22 | 10°13 | 8°58 | 0°8 | 24°43 | F 7 |
| S 8 | 13 5 18 | 18°12'06 | 25°24 | 27°23 | 11°57 | 2°4 | 13°56 | 16°24 | 5°3 | 8°41 | 19°24 | 10°14 | 8°55 | 0°15 | 24°45 | S 8 |
| S 9 | 13 9 15 | 19°11'26 | 8♋7 | 29°23 | 12°18 | 2°50 | 13°49 | 16°22 | 5°R3 | 8°40 | 19°25 | 10°R15 | 8°52 | 0°22 | 24°48 | S 9 |
| M10 | 13 13 11 | 20°10'43 | 21°12 | 1♌22 | 12°41 | 3°36 | 13°43 | 16°21 | 5°3 | 8°40 | 19°27 | 10°15 | 8°49 | 0°28 | 24°51 | M10 |
| T 11 | 13 17 8 | 21°9'58 | 4♋40 | 3°19 | 13°6 | 4°22 | 13°36 | 16°20 | 5°3 | 8°40 | 19°28 | 10°12 | 8°45 | 0°35 | 24°54 | T 11 |
| W12 | 13 21 4 | 22°9'11 | 18°31 | 5°14 | 13°32 | 5°8 | 13°30 | 16°18 | 5°2 | 8°40 | 19°30 | 10°8 | 8°42 | 0°42 | 24°57 | W12 |
| T 13 | 13 25 1 | 23°8'23 | 2♌40 | 7°7 | 14°0 | 5°53 | 13°23 | 16°16 | 5°2 | 8°39 | 19°31 | 10°2 | 8°39 | 0°48 | 25°0 | T 13 |
| F 14 | 13 28 57 | 24°7'32 | 17°4 | 8°57 | 14°30 | 6°39 | 13°16 | 16°14 | 5°2 | 8°39 | 19°33 | 9°55 | 8°36 | 0°55 | 25°3 | F 14 |
| S 15 | 13 32 54 | 25°6'40 | 1♌37 | 10°44 | 15°1 | 7°25 | 13°9 | 16°12 | 5°2 | 8°39 | 19°34 | 9°48 | 8°33 | 1°2 | 25°6 | S 15 |
| S 16 | 13 36 50 | 26°5'45 | 16°11 | 12°27 | 15°33 | 8°11 | 13°2 | 16°10 | 5°1 | 8°39 | 19°36 | 9°42 | 8°30 | 1°9 | 25°9 | S 16 |
| M17 | 13 40 47 | 27°4'48 | 0♌40 | 14°6 | 16°7 | 8°57 | 12°55 | 16°8 | 5°1 | 8°39 | 19°37 | 9°37 | 8°26 | 1°15 | 25°12 | M17 |
| T 18 | 13 44 44 | 28°3'49 | 15°0 | 15°41 | 16°42 | 9°43 | 12°48 | 16°6 | 5°1 | 8°39 | 19°38 | 9°35 | 8°23 | 1°22 | 25°15 | T 18 |
| W19 | 13 48 40 | 29°2'47 | 29°8 | 17°12 | 17°18 | 10°29 | 12°41 | 16°4 | 5°0 | 8°D39 | 19°40 | 9°D34 | 8°20 | 1°29 | 25°19 | W19 |
| T 20 | 13 52 37 | 0♌1'43 | 13♌3 | 18°38 | 17°56 | 11°15 | 12°34 | 16°2 | 5°0 | 8°39 | 19°41 | 9°34 | 8°17 | 1°35 | 25°22 | T 20 |
| F 21 | 13 56 33 | 1°0'37 | 26°45 | 19°59 | 18°35 | 12°1 | 12°26 | 15°59 | 4°59 | 8°39 | 19°43 | 9°35 | 8°14 | 1°42 | 25°26 | F 21 |
| S 22 | 14 0 30 | 1°59'28 | 10♌14 | 21°14 | 19°14 | 12°46 | 12°19 | 15°57 | 4°58 | 8°39 | 19°44 | 9°R36 | 8°10 | 1°49 | 25°29 | S 22 |
| S 23 | 14 4 26 | 2°58'17 | 23°30 | 22°25 | 19°55 | 13°32 | 12°11 | 15°54 | 4°58 | 8°39 | 19°46 | 9°35 | 8°7 | 1°56 | 25°33 | S 23 |
| M24 | 14 8 23 | 3°57'04 | 6♌36 | 23°30 | 20°37 | 14°18 | 12°4 | 15°51 | 4°57 | 8°39 | 19°47 | 9°32 | 8°4 | 2°2 | 25°36 | M24 |
| T 25 | 14 12 19 | 4°55'49 | 19°30 | 24°29 | 21°20 | 15°4 | 11°56 | 15°49 | 4°56 | 8°39 | 19°48 | 9°26 | 8°1 | 2°9 | 25°40 | T 25 |
| W26 | 14 16 16 | 5°54'32 | 2♌13 | 25°22 | 22°4 | 15°50 | 11°49 | 15°46 | 4°55 | 8°40 | 19°50 | 9°18 | 7°58 | 2°16 | 25°44 | W26 |
| T 27 | 14 20 13 | 6°53'13 | 14°44 | 26°10 | 22°49 | 16°36 | 11°41 | 15°43 | 4°54 | 8°40 | 19°51 | 9°8 | 7°55 | 2°22 | 25°47 | T 27 |
| F 28 | 14 24 9 | 7°51'53 | 27°5 | 26°51 | 23°35 | 17°22 | 11°34 | 15°40 | 4°53 | 8°40 | 19°53 | 8°57 | 7°51 | 2°29 | 25°51 | F 28 |
| S 29 | 14 28 6 | 8°50'30 | 9♌15 | 27°27 | 24°22 | 18°8 | 11°26 | 15°37 | 4°53 | 8°40 | 19°54 | 8°46 | 7°48 | 2°36 | 25°55 | S 29 |
| S 30 | 14 32 2 | 9♌49'06 | 21♌16 | 27♌57 | 25♋9 | 18♋53 | 11♌18 | 15♌34 | 4♌51 | 8♌41 | 19°Y55 | 8°Y36 | 7°Y45 | 2♌43 | 25II59 | S 30 |

Delta T = 18m37s

ASTRODIENST EPHEMERIS for the year 2575
geocentric

MAY 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|--------|-------|------|-------|-------|------|------|-------|------|---|-----|
| M 1 | 14 35 59 | 10♂47'40 | 3♁11 | 28♂20 | 25♁58 | 19♁39 | 11°R11 | 15°R31 | 4°R50 | 8♂41 | 19♁57 | 8°R28 | 7♁42 | 2♁49 | 26♁3 | M 1 | | |
| T 2 | 14 39 55 | 11°46'12 | 15° 2 | 28°38 | 26°47 | 20°25 | 11♁ 3 | 15♁27 | 4♁49 | 8°41 | 19°58 | 8♁22 | 7°39 | 2°56 | 26° 7 | T 2 | | |
| W 3 | 14 43 52 | 12°44'43 | 26°53 | 28°50 | 27°37 | 21°11 | 10°55 | 15°24 | 4°48 | 8°42 | 20° 0 | 8°19 | 7°35 | 3° 3 | 26°11 | W 3 | | |
| T 4 | 14 47 48 | 13°43'12 | 8♁50 | 28°56 | 28°27 | 21°57 | 10°48 | 15°21 | 4°47 | 8°42 | 20° 1 | 8°D17 | 7°32 | 3° 9 | 26°15 | T 4 | | |
| F 5 | 14 51 45 | 14°41'39 | 20°57 | 28°R56 | 29°18 | 22°43 | 10°40 | 15°17 | 4°46 | 8°43 | 20° 2 | 8°17 | 7°29 | 3°16 | 26°19 | F 5 | | |
| S 6 | 14 55 42 | 15°40'05 | 3♁19 | 28°51 | 0♁10 | 23°29 | 10°32 | 15°14 | 4°44 | 8°43 | 20° 4 | 8°R18 | 7°26 | 3°23 | 26°23 | S 6 | | |
| S 7 | 14 59 38 | 16°38'29 | 16° 1 | 28°40 | 1° 3 | 24°15 | 10°25 | 15°10 | 4°43 | 8°44 | 20° 5 | 8°18 | 7°23 | 3°30 | 26°27 | S 7 | | |
| M 8 | 15 3 35 | 17°36'52 | 29° 8 | 28°25 | 1°56 | 25° 0 | 10°17 | 15° 6 | 4°42 | 8°45 | 20° 6 | 8°16 | 7°20 | 3°36 | 26°31 | M 8 | | |
| T 9 | 15 7 31 | 18°35'13 | 12♁43 | 28° 5 | 2°49 | 25°46 | 10° 9 | 15° 3 | 4°40 | 8°45 | 20° 8 | 8°12 | 7°16 | 3°43 | 26°36 | T 9 | | |
| W10 | 15 11 28 | 19°33'33 | 26°44 | 27°40 | 3°44 | 26°32 | 10° 2 | 14°59 | 4°39 | 8°46 | 20° 9 | 8° 5 | 7°13 | 3°50 | 26°40 | W10 | | |
| T 11 | 15 15 24 | 20°31'51 | 11♁11 | 27°12 | 4°38 | 27°18 | 9°54 | 14°55 | 4°37 | 8°47 | 20°10 | 7°56 | 7°10 | 3°56 | 26°44 | T 11 | | |
| F 12 | 15 19 21 | 21°30'07 | 25°57 | 26°41 | 5°34 | 28° 4 | 9°47 | 14°51 | 4°36 | 8°47 | 20°11 | 7°46 | 7° 7 | 4° 3 | 26°49 | F 12 | | |
| S 13 | 15 23 17 | 22°28'22 | 10♁54 | 26° 8 | 6°29 | 28°49 | 9°40 | 14°47 | 4°34 | 8°48 | 20°13 | 7°35 | 7° 4 | 4°10 | 26°53 | S 13 | | |
| S 14 | 15 27 14 | 23°26'34 | 25°53 | 25°32 | 7°25 | 29°35 | 9°32 | 14°43 | 4°33 | 8°49 | 20°14 | 7°25 | 7° 1 | 4°16 | 26°57 | S 14 | | |
| M15 | 15 31 11 | 24°24'45 | 10♁45 | 24°56 | 8°22 | 0♁21 | 9°25 | 14°39 | 4°31 | 8°50 | 20°15 | 7°18 | 6°57 | 4°23 | 27° 2 | M15 | | |
| T 16 | 15 35 7 | 25°22'55 | 25°21 | 24°18 | 9°19 | 1° 7 | 9°18 | 14°35 | 4°29 | 8°51 | 20°16 | 7°12 | 6°54 | 4°30 | 27° 6 | T 16 | | |
| W17 | 15 39 4 | 26°21'02 | 9♁39 | 23°41 | 10°17 | 1°52 | 9°11 | 14°31 | 4°28 | 8°52 | 20°18 | 7°10 | 6°51 | 4°37 | 27°11 | W17 | | |
| T 18 | 15 43 0 | 27°19'07 | 23°36 | 23° 4 | 11°15 | 2°38 | 9° 4 | 14°27 | 4°26 | 8°53 | 20°19 | 7°D 9 | 6°48 | 4°43 | 27°16 | T 18 | | |
| F 19 | 15 46 57 | 28°17'10 | 7♁13 | 22°29 | 12°13 | 3°23 | 8°57 | 14°23 | 4°24 | 8°53 | 20°20 | 7°R 9 | 6°45 | 4°50 | 27°20 | F 19 | | |
| S 20 | 15 50 53 | 29°15'11 | 20°31 | 21°56 | 13°12 | 4° 9 | 8°50 | 14°19 | 4°22 | 8°54 | 20°21 | 7° 9 | 6°41 | 4°57 | 27°25 | S 20 | | |
| S 21 | 15 54 50 | 0♁13'11 | 3♁32 | 21°25 | 14°11 | 4°55 | 8°43 | 14°14 | 4°20 | 8°55 | 20°22 | 7° 7 | 6°38 | 5° 3 | 27°30 | S 21 | | |
| M22 | 15 58 46 | 1°11'08 | 16°20 | 20°57 | 15°10 | 5°40 | 8°37 | 14°10 | 4°18 | 8°57 | 20°24 | 7° 2 | 6°35 | 5°10 | 27°34 | M22 | | |
| T 23 | 16 2 43 | 2° 9'04 | 28°56 | 20°32 | 16°10 | 6°26 | 8°30 | 14° 6 | 4°16 | 8°58 | 20°25 | 6°55 | 6°32 | 5°17 | 27°39 | T 23 | | |
| W24 | 16 6 40 | 3° 6'59 | 11♁22 | 20°12 | 17°10 | 7°11 | 8°24 | 14° 1 | 4°15 | 8°59 | 20°26 | 6°44 | 6°29 | 5°24 | 27°44 | W24 | | |
| T 25 | 16 10 36 | 4° 4'51 | 23°39 | 19°55 | 18°11 | 7°57 | 8°17 | 13°57 | 4°13 | 9° 0 | 20°27 | 6°32 | 6°26 | 5°30 | 27°48 | T 25 | | |
| F 26 | 16 14 33 | 5° 2'43 | 5♁48 | 19°42 | 19°11 | 8°42 | 8°11 | 13°53 | 4°11 | 9° 1 | 20°28 | 6°18 | 6°22 | 5°37 | 27°53 | F 26 | | |
| S 27 | 16 18 29 | 6° 0'32 | 17°50 | 19°34 | 20°13 | 9°28 | 8° 5 | 13°48 | 4° 8 | 9° 2 | 20°29 | 6° 5 | 6°19 | 5°44 | 27°58 | S 27 | | |
| S 28 | 16 22 26 | 6°58'21 | 29°47 | 19°D30 | 21°14 | 10°13 | 7°59 | 13°44 | 4° 6 | 9° 3 | 20°30 | 5°52 | 6°16 | 5°50 | 28° 3 | S 28 | | |
| M29 | 16 26 22 | 7°56'08 | 11♁38 | 19°31 | 22°16 | 10°58 | 7°53 | 13°39 | 4° 4 | 9° 5 | 20°31 | 5°41 | 6°13 | 5°57 | 28° 8 | M29 | | |
| T 30 | 16 30 19 | 8°53'54 | 23°28 | 19°36 | 23°18 | 11°44 | 7°48 | 13°35 | 4° 2 | 9° 6 | 20°32 | 5°33 | 6°10 | 6° 4 | 28°13 | T 30 | | |
| W31 | 16 34 15 | 9♁51'39 | 5♁19 | 19♁46 | 24♁20 | 12♁29 | 7♁42 | 13♁31 | 4♁0 | 9♁7 | 20♁33 | 5♁27 | 6♁7 | 6♁10 | 28♁18 | W31 | | |

Delta T = 18m38s

JUNE 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|------|-------|-------|------|------|-------|------|-----|
| T 1 | 16 38 12 | 10♁49'23 | 17♁15 | 20♁ 0 | 25♁22 | 13♁14 | 7°R36 | 13°R26 | 3°R58 | 9♂ 9 | 20♁34 | 5°R25 | 6♁ 3 | 6♁17 | 28♁23 | T 1 | |
| F 2 | 16 42 9 | 11°47'05 | 29°21 | 20°19 | 26°25 | 14° 0 | 7♁31 | 13♁22 | 3♁56 | 9°10 | 20°35 | 5♁24 | 6° 0 | 6°24 | 28°27 | F 2 | |
| S 3 | 16 46 5 | 12°44'47 | 11♁40 | 20°42 | 27°28 | 14°45 | 7°26 | 13°17 | 3°53 | 9°11 | 20°36 | 5°24 | 5°57 | 6°31 | 28°32 | S 3 | |
| S 4 | 16 50 2 | 13°42'27 | 24°20 | 21° 9 | 28°31 | 15°30 | 7°21 | 13°13 | 3°51 | 9°13 | 20°37 | 5°23 | 5°54 | 6°37 | 28°37 | S 4 | |
| M 5 | 16 53 58 | 14°40'07 | 7♁24 | 21°41 | 29°35 | 16°15 | 7°16 | 13° 8 | 3°49 | 9°14 | 20°38 | 5°22 | 5°51 | 6°44 | 28°42 | M 5 | |
| T 6 | 16 57 55 | 15°37'46 | 20°56 | 22°17 | 0♁39 | 17° 0 | 7°11 | 13° 4 | 3°47 | 9°16 | 20°39 | 5°18 | 5°47 | 6°51 | 28°47 | T 6 | |
| W 7 | 17 1 51 | 16°35'23 | 4♁57 | 22°56 | 1°42 | 17°45 | 7° 7 | 12°59 | 3°44 | 9°17 | 20°40 | 5°12 | 5°44 | 6°57 | 28°52 | W 7 | |
| T 8 | 17 5 48 | 17°33'00 | 19°27 | 23°40 | 2°47 | 18°30 | 7° 2 | 12°55 | 3°42 | 9°18 | 20°41 | 5° 3 | 5°41 | 7° 4 | 28°58 | T 8 | |
| F 9 | 17 9 44 | 18°30'36 | 4♁21 | 24°27 | 3°51 | 19°15 | 6°58 | 12°50 | 3°40 | 9°20 | 20°42 | 4°53 | 5°38 | 7°11 | 29° 3 | F 9 | |
| S 10 | 17 13 41 | 19°28'11 | 19°31 | 25°18 | 4°55 | 20° 0 | 6°54 | 12°46 | 3°37 | 9°22 | 20°43 | 4°43 | 5°35 | 7°17 | 29° 8 | S 10 | |
| S 11 | 17 17 38 | 20°25'46 | 4♁45 | 26°12 | 6° 0 | 20°45 | 6°50 | 12°42 | 3°35 | 9°23 | 20°44 | 4°33 | 5°32 | 7°24 | 29°13 | S 11 | |
| M12 | 17 21 34 | 21°23'18 | 19°54 | 27°10 | 7° 5 | 21°30 | 6°46 | 12°37 | 3°33 | 9°25 | 20°44 | 4°25 | 5°28 | 7°31 | 29°18 | M12 | |
| T 13 | 17 25 31 | 22°20'50 | 4♁48 | 28°11 | 8°10 | 22°15 | 6°42 | 12°33 | 3°30 | 9°26 | 20°45 | 4°20 | 5°25 | 7°38 | 29°23 | T 13 | |
| W14 | 17 29 27 | 23°18'21 | 19°20 | 29°15 | 9°15 | 22°59 | 6°39 | 12°28 | 3°28 | 9°28 | 20°46 | 4°17 | 5°22 | 7°44 | 29°28 | W14 | |
| T 15 | 17 33 24 | 24°15'50 | 3♁27 | 0♁23 | 10°21 | 23°44 | 6°36 | 12°24 | 3°25 | 9°30 | 20°47 | 4°D16 | 5°19 | 7°51 | 29°33 | T 15 | |
| F 16 | 17 37 20 | 25°13'18 | 17° 8 | 1°34 | 11°26 | 24°29 | 6°32 | 12°20 | 3°23 | 9°31 | 20°48 | 4°17 | 5°16 | 7°58 | 29°38 | F 16 | |
| S 17 | 17 41 17 | 26°10'44 | 0♁26 | 2°47 | 12°32 | 25°13 | 6°30 | 12°16 | 3°21 | 9°33 | 20°48 | 4°R17 | 5°13 | 8° 4 | 29°43 | S 17 | |
| S 18 | 17 45 13 | 27° 8'10 | 13°23 | 4° 4 | 13°38 | 25°58 | 6°27 | 12°11 | 3°18 | 9°35 | 20°49 | 4°15 | 5° 9 | 8°11 | 29°49 | S 18 | |
| M19 | 17 49 10 | 28° 5'34 | 26° 2 | 5°24 | 14°44 | 26°42 | 6°24 | 12° 7 | 3°16 | 9°37 | 20°50 | 4°12 | 5° 6 | 8°18 | 29°54 | M19 | |
| T 20 | 17 53 7 | 29° 2'58 | 8♁28 | 6°47 | 15°50 | 27°27 | 6°22 | 12° 3 | 3°13 | 9°38 | 20°50 | 4° 6 | 5° 3 | 8°24 | 29°59 | T 20 | |
| W21 | 17 57 3 | 0♁20 | 20°42 | 8°13 | 16°56 | 28°11 | 6°19 | 11°59 | 3°11 | 9°40 | 20°51 | 3°58 | 5° 0 | 8°31 | 0♁ 4 | W21 | |
| T 22 | 18 1 0 | 0°57'42 | 2♁48 | 9°42 | 18° 3 | 28°55 | 6°17 | 11°55 | 3° 8 | 9°42 | 20°52 | 3°48 | 4°57 | 8°38 | 0° 9 | T 22 | |
| F 23 | 18 4 56 | 1°55'03 | 14°48 | 11°14 | 19° 9 | 29°40 | 6°15 | 11°51 | 3° 6 | 9°44 | 20°52 | 3°37 | 4°53 | 8°45 | 0°14 | F 23 | |
| S 24 | 18 8 53 | 2°52'23 | 26°43 | 12°48 | 20°16 | 0♁24 | 6°14 | 11°47 | 3° 3 | 9°46 | 20°53 | 3°25 | 4°50 | 8°51 | 0°19 | S 24 | |
| S 25 | 18 12 49 | 3°49'42 | 8♁36 | 14°26 | 21°23 | 1° 8 | 6°12 | 11°43 | 3° 1 | 9°47 | 20°53 | 3°15 | 4°47 | 8°58 | 0°25 | S 25 | |
| M26 | 18 16 46 | 4°47'01 | 20°26 | 16° 6 | 22°30 | 1°52 | 6°11 | 11°39 | 2°59 | 9°49 | 20°54 | 3° 6 | 4°44 | 9° 5 | 0°30 | M26 | |
| T 27 | 18 20 42 | 5°44'19 | 2♁17 | 17°49 | 23°37 | 2°36 | 6°10 | 11°35 | 2°56 | 9°51 | 20°54 | 3° 0 | 4°41 | 9°11 | 0°35 | T 27 | |
| W28 | 18 24 39 | 6°41'37 | 14°11 | 19°35 | 24°44 | 3°20 | 6° 9 | 11°31 | 2°54 | 9°53 | 20°55 | 2°55 | 4°38 | 9°18 | 0°40 | W28 | |
| T 29 | 18 28 36 | 7°38'54 | 26°10 | 21°24 | 25°52 | 4° 4 | 6° 8 | 11°27 | 2°51 | 9°55 | 20°55 | 2°53 | 4°34 | 9°25 | 0°45 | T 29 | |
| F 30 | 18 32 32 | 8♁36'11 | 8♁18 | 23♁15 | 26♁59 | 4♁48 | 6♁ 7 | 11♁23 | 2♁49 | 9♁57 | 20♁56 | 2°D53 | 4♁31 | 9♁31 | 0♁50 | F 30 | |

Delta T = 18m38s

ASTRODIENST EPHEMERIS for the year 2575
geocentric

JULY 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|---------|--------|--------|--------|-------|--------|-------|--------|--------|-------|-------|--------|-------|------|-----|
| S 1 | 18 36 29 | 9♄33'28 | 20♄40 | 25♄9 | 28♄7 | 5♄32 | 6♄R 7 | 11♄R20 | 2♄R46 | 9♄L59 | 20♄V56 | 2♄M54 | 4♄M28 | 9♄Z38 | 0♄E55 | S 1 | |
| S 2 | 18 40 25 | 10°30'45 | 3♄V19 | 27° 6 | 29°15 | 6°15 | 6♄L 6 | 11♄A16 | 2♄Z44 | 10° 1 | 20°57 | 2°55 | 4°25 | 9°45 | 1° 0 | S 2 | |
| M 3 | 18 44 22 | 11°28'01 | 16°20 | 29° 5 | 0♄II22 | 6°59 | 6°D 6 | 11°13 | 2°41 | 10° 3 | 20°57 | 2°R55 | 4°22 | 9°52 | 1° 6 | M 3 | |
| T 4 | 18 48 18 | 12°25'17 | 29°47 | 19♄6 | 1°30 | 7°42 | 6° 6 | 11° 9 | 2°39 | 10° 5 | 20°58 | 2°54 | 4°19 | 9°58 | 1°11 | T 4 | |
| W 5 | 18 52 15 | 13°22'34 | 13♄A1 | 3° 9 | 2°38 | 8°26 | 6° 7 | 11° 6 | 2°37 | 10° 7 | 20°58 | 2°51 | 4°15 | 10° 5 | 1°16 | W 5 | |
| T 6 | 18 56 11 | 14°19'50 | 28° 3 | 5°14 | 3°47 | 9° 9 | 6° 7 | 11° 2 | 2°34 | 10° 9 | 20°58 | 2°45 | 4°12 | 10°12 | 1°21 | T 6 | |
| F 7 | 19 0 8 | 15°17'06 | 12♄II51 | 7°20 | 4°55 | 9°53 | 6° 8 | 10°59 | 2°32 | 10°11 | 20°59 | 2°39 | 4° 9 | 10°18 | 1°26 | F 7 | |
| S 8 | 19 4 5 | 16°14'23 | 27°56 | 9°28 | 6° 3 | 10°36 | 6° 8 | 10°56 | 2°29 | 10°13 | 20°59 | 2°32 | 4° 6 | 10°25 | 1°31 | S 8 | |
| S 9 | 19 8 1 | 17°11'39 | 13♄E11 | 11°38 | 7°12 | 11°19 | 6° 9 | 10°53 | 2°27 | 10°15 | 20°59 | 2°26 | 4° 3 | 10°32 | 1°36 | S 9 | |
| M10 | 19 11 58 | 18° 8'55 | 28°25 | 13°48 | 8°20 | 12° 2 | 6°10 | 10°49 | 2°25 | 10°17 | 20°59 | 2°21 | 3°59 | 10°38 | 1°41 | M10 | |
| T 11 | 19 15 54 | 19° 6'11 | 13♄L27 | 15°58 | 9°29 | 12°45 | 6°12 | 10°46 | 2°22 | 10°19 | 21° 0 | 2°17 | 3°56 | 10°45 | 1°46 | T 11 | |
| W12 | 19 19 51 | 20° 3'26 | 28° 9 | 18° 9 | 10°38 | 13°28 | 6°13 | 10°43 | 2°20 | 10°21 | 21° 0 | 2°D16 | 3°53 | 10°52 | 1°51 | W12 | |
| T 13 | 19 23 47 | 21° 0'41 | 12♄M26 | 20°20 | 11°47 | 14°11 | 6°15 | 10°41 | 2°18 | 10°24 | 21° 0 | 2°16 | 3°50 | 10°59 | 1°56 | T 13 | |
| F 14 | 19 27 44 | 21°57'56 | 26°17 | 22°30 | 12°56 | 14°54 | 6°17 | 10°38 | 2°16 | 10°26 | 21° 0 | 2°18 | 3°47 | 11° 5 | 2° 1 | F 14 | |
| S 15 | 19 31 40 | 22°55'10 | 9♄A40 | 24°40 | 14° 5 | 15°36 | 6°19 | 10°35 | 2°13 | 10°28 | 21° 0 | 2°19 | 3°44 | 11°12 | 2° 6 | S 15 | |
| S 16 | 19 35 37 | 23°52'24 | 22°40 | 26°49 | 15°14 | 16°19 | 6°21 | 10°32 | 2°11 | 10°30 | 21° 1 | 2°R20 | 3°40 | 11°19 | 2°11 | S 16 | |
| M17 | 19 39 34 | 24°49'38 | 5♄L19 | 28°57 | 16°23 | 17° 1 | 6°23 | 10°30 | 2° 9 | 10°32 | 21° 1 | 2°19 | 3°37 | 11°25 | 2°16 | M17 | |
| T 18 | 19 43 30 | 25°46'52 | 17°41 | 1♄L 4 | 17°32 | 17°44 | 6°26 | 10°27 | 2° 7 | 10°34 | 21° 1 | 2°17 | 3°34 | 11°32 | 2°20 | T 18 | |
| W19 | 19 47 27 | 26°44'06 | 29°50 | 3°10 | 18°42 | 18°26 | 6°29 | 10°25 | 2° 5 | 10°36 | 21° 1 | 2°13 | 3°31 | 11°39 | 2°25 | W19 | |
| T 20 | 19 51 23 | 27°41'19 | 11♄A15 | 5°14 | 19°51 | 19° 8 | 6°32 | 10°23 | 2° 2 | 10°39 | 21° 1 | 2° 8 | 3°28 | 11°45 | 2°30 | T 20 | |
| F 21 | 19 55 20 | 28°38'33 | 23°45 | 7°16 | 21° 1 | 19°51 | 6°35 | 10°20 | 2° 0 | 10°41 | 21°R 1 | 2° 3 | 3°25 | 11°52 | 2°35 | F 21 | |
| S 22 | 19 59 16 | 29°35'46 | 5♄Z37 | 9°17 | 22°10 | 20°33 | 6°38 | 10°18 | 1°58 | 10°43 | 21° 1 | 1°57 | 3°21 | 11°59 | 2°40 | S 22 | |
| S 23 | 20 3 13 | 0♄L33'00 | 17°28 | 11°17 | 23°20 | 21°14 | 6°41 | 10°16 | 1°56 | 10°45 | 21° 1 | 1°51 | 3°18 | 12° 5 | 2°45 | S 23 | |
| M24 | 20 7 9 | 1°30'14 | 29°20 | 13°14 | 24°30 | 21°56 | 6°45 | 10°14 | 1°54 | 10°47 | 21° 1 | 1°47 | 3°15 | 12°12 | 2°49 | M24 | |
| T 25 | 20 11 6 | 2°27'28 | 11♄A15 | 15°10 | 25°39 | 22°38 | 6°49 | 10°12 | 1°52 | 10°50 | 21° 1 | 1°44 | 3°12 | 12°19 | 2°54 | T 25 | |
| W26 | 20 15 3 | 3°24'43 | 23°16 | 17° 4 | 26°49 | 23°20 | 6°52 | 10°11 | 1°50 | 10°52 | 21° 1 | 1°42 | 3° 9 | 12°26 | 2°59 | W26 | |
| T 27 | 20 18 59 | 4°21'58 | 5♄H24 | 18°56 | 27°59 | 24° 1 | 6°57 | 10° 9 | 1°48 | 10°54 | 21° 0 | 1°D42 | 3° 5 | 12°32 | 3° 3 | T 27 | |
| F 28 | 20 22 56 | 5°19'13 | 17°42 | 20°46 | 29° 9 | 24°43 | 7° 1 | 10° 7 | 1°46 | 10°56 | 21° 0 | 1°43 | 3° 2 | 12°39 | 3° 8 | F 28 | |
| S 29 | 20 26 52 | 6°16'29 | 0♄V12 | 22°35 | 0♄E20 | 25°24 | 7° 5 | 10° 6 | 1°44 | 10°58 | 21° 0 | 1°44 | 2°59 | 12°46 | 3°12 | S 29 | |
| S 30 | 20 30 49 | 7°13'46 | 12°57 | 24°21 | 1°30 | 26° 5 | 7°10 | 10° 4 | 1°42 | 11° 1 | 21° 0 | 1°46 | 2°56 | 12°52 | 3°17 | S 30 | |
| M31 | 20 34 45 | 8♄L11'03 | 26♄V 1 | 26♄L 6 | 2♄E40 | 26♄A46 | 7♄L14 | 10♄A 3 | 1♄Z41 | 11♄L 3 | 21♄V 0 | 1♄M47 | 2♄M53 | 12♄S59 | 3♄E22 | M31 | |

Delta T = 18m38s

AUGUST 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|---------|--------|-------|---------|--------|--------|-------|--------|--------|-------|-------|--------|-------|------|-----|
| T 1 | 20 38 42 | 9♄L 8'21 | 9♄B26 | 27♄L49 | 3♄E51 | 27♄B27 | 7♄L19 | 10°R 2 | 1°R39 | 11♄L 5 | 21°R 0 | 1°R48 | 2♄M50 | 13♄Z 6 | 3♄E26 | T 1 | |
| W 2 | 20 42 38 | 10° 5'40 | 23°14 | 29°30 | 5° 1 | 28° 8 | 7°24 | 10♄A 7 | 1♄Z37 | 11° 7 | 20♄V59 | 1♄M47 | 2°46 | 13°12 | 3°31 | W 2 | |
| T 3 | 20 46 35 | 11° 3'00 | 7♄II25 | 1♄M10 | 6°12 | 28°49 | 7°29 | 9°59 | 1°35 | 11°10 | 20°59 | 1°46 | 2°43 | 13°19 | 3°35 | T 3 | |
| F 4 | 20 50 32 | 12° 0'21 | 21°57 | 2°47 | 7°22 | 29°30 | 7°35 | 9°58 | 1°34 | 11°12 | 20°59 | 1°44 | 2°40 | 13°26 | 3°39 | F 4 | |
| S 5 | 20 54 28 | 12°57'43 | 6♄E46 | 4°23 | 8°33 | 0♄II10 | 7°40 | 9°58 | 1°32 | 11°14 | 20°58 | 1°41 | 2°37 | 13°32 | 3°44 | S 5 | |
| S 6 | 20 58 25 | 13°55'06 | 21°46 | 5°57 | 9°44 | 0°51 | 7°46 | 9°57 | 1°30 | 11°16 | 20°58 | 1°39 | 2°34 | 13°39 | 3°48 | S 6 | |
| M 7 | 21 2 21 | 14°52'29 | 6♄L49 | 7°29 | 10°55 | 1°31 | 7°51 | 9°56 | 1°29 | 11°18 | 20°58 | 1°37 | 2°30 | 13°46 | 3°52 | M 7 | |
| T 8 | 21 6 18 | 15°49'53 | 21°44 | 9° 0 | 12° 6 | 2°11 | 7°57 | 9°55 | 1°27 | 11°21 | 20°57 | 1°36 | 2°27 | 13°53 | 3°57 | T 8 | |
| W 9 | 21 10 14 | 16°47'18 | 6♄M26 | 10°28 | 13°17 | 2°51 | 8° 3 | 9°55 | 1°26 | 11°23 | 20°57 | 1°D36 | 2°24 | 13°59 | 4° 1 | W 9 | |
| T 10 | 21 14 11 | 17°44'43 | 20°46 | 11°55 | 14°28 | 3°31 | 8° 9 | 9°55 | 1°24 | 11°25 | 20°57 | 1°37 | 2°21 | 14° 6 | 4° 5 | T 10 | |
| F 11 | 21 18 7 | 18°42'09 | 4♄A42 | 13°20 | 15°39 | 4°11 | 8°16 | 9°54 | 1°23 | 11°27 | 20°56 | 1°38 | 2°18 | 14°13 | 4° 9 | F 11 | |
| S 12 | 21 22 4 | 19°39'36 | 18°12 | 14°43 | 16°50 | 4°50 | 8°22 | 9°54 | 1°22 | 11°30 | 20°56 | 1°39 | 2°15 | 14°19 | 4°13 | S 12 | |
| S 13 | 21 26 1 | 20°37'03 | 1♄L17 | 16° 4 | 18° 1 | 5°30 | 8°29 | 9°54 | 1°20 | 11°32 | 20°55 | 1°40 | 2°11 | 14°26 | 4°17 | S 13 | |
| M14 | 21 29 57 | 21°34'31 | 13°59 | 17°23 | 19°12 | 6° 9 | 8°35 | 9°D54 | 1°19 | 11°34 | 20°55 | 1°40 | 2° 8 | 14°33 | 4°21 | M14 | |
| T 15 | 21 33 54 | 22°32'00 | 26°23 | 18°40 | 20°24 | 6°49 | 8°42 | 9°54 | 1°18 | 11°36 | 20°54 | 1°R40 | 2° 5 | 14°39 | 4°25 | T 15 | |
| W16 | 21 37 50 | 23°29'29 | 8♄A32 | 19°54 | 21°35 | 7°28 | 8°49 | 9°54 | 1°17 | 11°38 | 20°54 | 1°40 | 2° 2 | 14°46 | 4°29 | W16 | |
| T 17 | 21 41 47 | 24°27'00 | 20°31 | 21° 7 | 22°47 | 8° 7 | 8°56 | 9°54 | 1°15 | 11°41 | 20°53 | 1°39 | 1°59 | 14°53 | 4°33 | T 17 | |
| F 18 | 21 45 43 | 25°24'30 | 2♄Z23 | 22°18 | 23°58 | 8°45 | 9° 4 | 9°55 | 1°14 | 11°43 | 20°53 | 1°38 | 1°56 | 14°59 | 4°37 | F 18 | |
| S 19 | 21 49 40 | 26°22'02 | 14°14 | 23°26 | 25°10 | 9°24 | 9°11 | 9°55 | 1°13 | 11°45 | 20°52 | 1°38 | 1°52 | 15° 6 | 4°40 | S 19 | |
| S 20 | 21 53 36 | 27°19'35 | 26° 6 | 24°32 | 26°22 | 10° 2 | 9°19 | 9°56 | 1°12 | 11°47 | 20°51 | 1°37 | 1°49 | 15°13 | 4°44 | S 20 | |
| M21 | 21 57 33 | 28°17'08 | 8♄A 2 | 25°36 | 27°33 | 10°41 | 9°26 | 9°57 | 1°11 | 11°49 | 20°51 | 1°37 | 1°46 | 15°19 | 4°48 | M21 | |
| T 22 | 22 1 30 | 29°14'43 | 20° 5 | 26°36 | 28°45 | 11°19 | 9°34 | 9°57 | 1°10 | 11°51 | 20°50 | 1°36 | 1°43 | 15°26 | 4°51 | T 22 | |
| W23 | 22 5 26 | 0♄M12'19 | 2♄H17 | 27°35 | 29°57 | 11°57 | 9°42 | 9°58 | 1° 9 | 11°54 | 20°49 | 1°D36 | 1°40 | 15°33 | 4°55 | W23 | |
| T 24 | 22 9 23 | 1° 9'55 | 14°39 | 28°30 | 1♄L 9 | 12°35 | 9°50 | 9°59 | 1° 9 | 11°56 | 20°49 | 1°R36 | 1°36 | 15°40 | 4°58 | T 24 | |
| F 25 | 22 13 19 | 2° 7'33 | 27°13 | 29°22 | 2°21 | 13°13 | 9°58 | 10° 0 | 1° 8 | 11°58 | 20°48 | 1°36 | 1°33 | 15°46 | 5° 2 | F 25 | |
| S 26 | 22 17 16 | 3° 5'13 | 10♄V 0 | 0♄A12 | 3°33 | 13°50 | 10° 6 | 10° 1 | 1° 7 | 12° 0 | 20°47 | 1°36 | 1°30 | 15°53 | 5° 5 | S 26 | |
| S 27 | 22 21 12 | 4° 2'53 | 23° 0 | 0°58 | 4°45 | 14°28 | 10°15 | 10° 3 | 1° 6 | 12° 2 | 20°47 | 1°36 | 1°27 | 16° 0 | 5° 9 | S 27 | |
| M28 | 22 25 9 | 5° 0'36 | 6♄B16 | 1°40 | 5°57 | 15° 5 | 10°23 | 10° 4 | 1° 6 | 12° 4 | 20°46 | 1°36 | 1°24 | 16° 6 | 5°12 | M28 | |
| T 29 | 22 29 5 | 5°58'20 | 19°48 | 2°19 | 7°10 | 15°42 | 10°32 | 10° 5 | 1° 5 | 12° 6 | 20°45 | 1°35 | 1°21 | 16°13 | 5°15 | T 29 | |
| W30 | 22 33 2 | 6°56'05 | 3♄II35 | 2°54 | 8°22 | 16°19 | 10°40 | 10° 7 | 1° 5 | 12° 8 | 20°44 | 1°D35 | 1°17 | 16°20 | 5°18 | W30 | |
| T 31 | 22 36 59 | 7♄M53'52 | 17♄II37 | 3♄A25 | 9♄L34 | 16♄II56 | 10♄L49 | 10♄A 9 | 1♄Z 4 | 12♄L10 | 20♄V44 | 1♄M35 | 1♄M14 | 16♄Z26 | 5♄E22 | T 31 | |

Delta T = 18m39s

ASTRODIENST EPHEMERIS for the year 2575
geocentric

SEPTEMBER 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♂ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|
| F 1 | 22 40 55 | 8♎51'41 | 1♌54 | 3♊51 | 10♏147 | 17♁32 | 10♌58 | 10♌10 | 1°R 4 | 12♏12 | 20°R43 | 1♎36 | 1♎11 | 16♌33 | 5♌25 | F 1 |
| S 2 | 22 44 52 | 9°49'32 | 16°23 | 4°13 | 11°59 | 18° 8 | 11° 7 | 10°12 | 1♌ 3 | 12°14 | 20°Y42 | 1°36 | 1° 8 | 16°40 | 5°28 | S 2 |
| S 3 | 22 48 48 | 10°47'24 | 1♏ 0 | 4°30 | 13°12 | 18°45 | 11°16 | 10°14 | 1° 3 | 12°16 | 20°41 | 1°37 | 1° 5 | 16°46 | 5°31 | S 3 |
| M 4 | 22 52 45 | 11°45'18 | 15°39 | 4°42 | 14°24 | 19°21 | 11°26 | 10°16 | 1° 3 | 12°18 | 20°40 | 1°38 | 1° 2 | 16°53 | 5°33 | M 4 |
| T 5 | 22 56 41 | 12°43'14 | 0♎15 | 4°48 | 15°37 | 19°56 | 11°35 | 10°18 | 1° 2 | 12°20 | 20°39 | 1°R38 | 0°58 | 17° 0 | 5°36 | T 5 |
| W 6 | 23 0 38 | 13°41'11 | 14°42 | 4°R49 | 16°50 | 20°32 | 11°44 | 10°20 | 1° 2 | 12°22 | 20°39 | 1°38 | 0°55 | 17° 6 | 5°39 | W 6 |
| T 7 | 23 4 34 | 14°39'09 | 28°54 | 4°44 | 18° 3 | 21° 7 | 11°54 | 10°23 | 1° 2 | 12°24 | 20°38 | 1°37 | 0°52 | 17°13 | 5°42 | T 7 |
| F 8 | 23 8 31 | 15°37'09 | 12♊46 | 4°34 | 19°15 | 21°42 | 12° 4 | 10°25 | 1° 2 | 12°26 | 20°37 | 1°35 | 0°49 | 17°20 | 5°44 | F 8 |
| S 9 | 23 12 27 | 16°35'10 | 26°16 | 4°17 | 20°28 | 22°17 | 12°13 | 10°27 | 1°D 2 | 12°28 | 20°36 | 1°33 | 0°46 | 17°26 | 5°47 | S 9 |
| S 10 | 23 16 24 | 17°33'13 | 9♌23 | 3°53 | 21°41 | 22°52 | 12°23 | 10°30 | 1° 2 | 12°30 | 20°35 | 1°31 | 0°42 | 17°33 | 5°50 | S 10 |
| M11 | 23 20 21 | 18°31'17 | 22° 9 | 3°24 | 22°54 | 23°26 | 12°33 | 10°33 | 1° 2 | 12°32 | 20°34 | 1°29 | 0°39 | 17°40 | 5°52 | M11 |
| T 12 | 23 24 17 | 19°29'23 | 4♌34 | 2°49 | 24° 7 | 24° 1 | 12°43 | 10°35 | 1° 2 | 12°34 | 20°33 | 1°28 | 0°36 | 17°46 | 5°54 | T 12 |
| W13 | 23 28 14 | 20°27'30 | 16°45 | 2° 8 | 25°20 | 24°35 | 12°53 | 10°38 | 1° 2 | 12°36 | 20°32 | 1°D27 | 0°33 | 17°53 | 5°57 | W13 |
| T 14 | 23 32 10 | 21°25'38 | 28°44 | 1°22 | 26°34 | 25° 9 | 13° 4 | 10°41 | 1° 2 | 12°37 | 20°31 | 1°27 | 0°30 | 18° 0 | 5°59 | T 14 |
| F 15 | 23 36 7 | 22°23'48 | 10♌36 | 0°31 | 27°47 | 25°42 | 13°14 | 10°44 | 1° 3 | 12°39 | 20°30 | 1°28 | 0°27 | 18° 7 | 6° 1 | F 15 |
| S 16 | 23 40 3 | 23°21'59 | 22°27 | 29♎36 | 29° 0 | 26°15 | 13°24 | 10°47 | 1° 3 | 12°41 | 20°29 | 1°30 | 0°23 | 18°13 | 6° 3 | S 16 |
| S 17 | 23 44 0 | 24°20'12 | 4♌20 | 28°38 | 0♎13 | 26°49 | 13°35 | 10°50 | 1° 3 | 12°43 | 20°28 | 1°31 | 0°20 | 18°20 | 6° 5 | S 17 |
| M18 | 23 47 56 | 25°18'26 | 16°20 | 27°39 | 1°27 | 27°21 | 13°45 | 10°54 | 1° 4 | 12°45 | 20°27 | 1°33 | 0°17 | 18°27 | 6° 7 | M18 |
| T 19 | 23 51 53 | 26°16'42 | 28°31 | 26°39 | 2°40 | 27°54 | 13°56 | 10°57 | 1° 4 | 12°46 | 20°26 | 1°R34 | 0°14 | 18°33 | 6° 9 | T 19 |
| W20 | 23 55 50 | 27°14'59 | 10♌55 | 25°39 | 3°53 | 28°26 | 14° 7 | 11° 0 | 1° 5 | 12°48 | 20°25 | 1°33 | 0°11 | 18°40 | 6°11 | W20 |
| T 21 | 23 59 46 | 28°13'18 | 23°33 | 24°42 | 5° 7 | 28°59 | 14°18 | 11° 4 | 1° 5 | 12°50 | 20°24 | 1°32 | 0° 7 | 18°47 | 6°13 | T 21 |
| F 22 | 0 3 43 | 29°11'39 | 6♌28 | 23°48 | 6°20 | 29°30 | 14°28 | 11° 8 | 1° 6 | 12°51 | 20°23 | 1°29 | 0° 4 | 18°53 | 6°15 | F 22 |
| S 23 | 0 7 39 | 0♊10'01 | 19°38 | 22°59 | 7°34 | 0♌ 2 | 14°39 | 11°11 | 1° 7 | 12°53 | 20°22 | 1°25 | 0° 1 | 19° 0 | 6°16 | S 23 |
| S 24 | 0 11 36 | 1° 8'26 | 3♌ 2 | 22°17 | 8°48 | 0°33 | 14°50 | 11°15 | 1° 7 | 12°55 | 20°20 | 1°20 | 29♏58 | 19° 7 | 6°18 | S 24 |
| M25 | 0 15 32 | 2° 6'52 | 16°39 | 21°41 | 10° 1 | 1° 4 | 15° 2 | 11°19 | 1° 8 | 12°56 | 20°19 | 1°16 | 29°55 | 19°13 | 6°19 | M25 |
| T 26 | 0 19 29 | 3° 5'21 | 0♎27 | 21°14 | 11°15 | 1°35 | 15°13 | 11°23 | 1° 9 | 12°58 | 20°18 | 1°12 | 29°52 | 19°20 | 6°21 | T 26 |
| W27 | 0 23 25 | 4° 3'52 | 14°24 | 20°55 | 12°29 | 2° 6 | 15°24 | 11°27 | 1°10 | 12°59 | 20°17 | 1° 9 | 29°48 | 19°27 | 6°22 | W27 |
| T 28 | 0 27 22 | 5° 2'25 | 28°28 | 20°D45 | 13°43 | 2°36 | 15°35 | 11°31 | 1°11 | 13° 1 | 20°16 | 1° 7 | 29°45 | 19°33 | 6°24 | T 28 |
| F 29 | 0 31 19 | 6° 1'00 | 12♌38 | 20°46 | 14°57 | 3° 6 | 15°47 | 11°35 | 1°12 | 13° 2 | 20°15 | 1°D 7 | 29°42 | 19°40 | 6°25 | F 29 |
| S 30 | 0 35 15 | 6♊59'37 | 26♌50 | 20♎56 | 16♎11 | 3♌35 | 15♌58 | 11♌39 | 1♌13 | 13♏ 4 | 20°Y14 | 1♎ 8 | 29♏39 | 19♌47 | 6♌26 | S 30 |

Delta T = 18m39s

OCTOBER 2575

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|------|-------|--------|--------|-------|-------|-------|------|
| S 1 | 0 39 12 | 7♊58'17 | 11♏ 4 | 21♎15 | 17♎25 | 4♌ 4 | 16♌10 | 11♌43 | 1♌14 | 13♏ 5 | 20°R13 | 1♎10 | 29♏36 | 19♌53 | 6♌27 | S 1 |
| M 2 | 0 43 8 | 8°56'59 | 25°17 | 21°44 | 18°39 | 4°33 | 16°21 | 11°48 | 1°15 | 13° 7 | 20°Y12 | 1°R11 | 29°33 | 20° 0 | 6°28 | M 2 |
| T 3 | 0 47 5 | 9°55'43 | 9♎27 | 22°22 | 19°53 | 5° 2 | 16°33 | 11°52 | 1°16 | 13° 8 | 20°10 | 1°11 | 29°29 | 20° 7 | 6°29 | T 3 |
| W 4 | 0 51 1 | 10°54'28 | 23°29 | 23° 9 | 21° 7 | 5°30 | 16°45 | 11°57 | 1°17 | 13°10 | 20° 9 | 1° 9 | 29°26 | 20°13 | 6°30 | W 4 |
| T 5 | 0 54 58 | 11°53'16 | 7♊21 | 24° 4 | 22°21 | 5°58 | 16°57 | 12° 1 | 1°19 | 13°11 | 20° 8 | 1° 5 | 29°23 | 20°20 | 6°30 | T 5 |
| F 6 | 0 58 54 | 12°52'06 | 20°59 | 25° 6 | 23°35 | 6°26 | 17° 8 | 12° 6 | 1°20 | 13°12 | 20° 7 | 0°59 | 29°20 | 20°27 | 6°31 | F 6 |
| S 7 | 1 2 51 | 13°50'58 | 4♌20 | 26°15 | 24°49 | 6°53 | 17°20 | 12°11 | 1°21 | 13°14 | 20° 6 | 0°52 | 29°17 | 20°33 | 6°32 | S 7 |
| S 8 | 1 6 47 | 14°49'52 | 17°22 | 27°31 | 26° 4 | 7°20 | 17°32 | 12°16 | 1°23 | 13°15 | 20° 5 | 0°44 | 29°13 | 20°40 | 6°32 | S 8 |
| M 9 | 1 10 44 | 15°48'48 | 0♌ 5 | 28°51 | 27°18 | 7°46 | 17°44 | 12°20 | 1°24 | 13°16 | 20° 3 | 0°37 | 29°10 | 20°47 | 6°33 | M 9 |
| T 10 | 1 14 41 | 16°47'45 | 12°30 | 0♊17 | 28°32 | 8°12 | 17°57 | 12°25 | 1°26 | 13°17 | 20° 2 | 0°30 | 29° 7 | 20°53 | 6°33 | T 10 |
| W11 | 1 18 37 | 17°46'44 | 24°40 | 1°46 | 29°47 | 8°38 | 18° 9 | 12°30 | 1°27 | 13°18 | 20° 1 | 0°26 | 29° 4 | 21° 0 | 6°33 | W11 |
| T 12 | 1 22 34 | 18°45'45 | 6♌38 | 3°19 | 1♊ 1 | 9° 3 | 18°21 | 12°36 | 1°29 | 13°20 | 20° 0 | 0°23 | 29° 1 | 21° 7 | 6°34 | T 12 |
| F 13 | 1 26 30 | 19°44'48 | 18°30 | 4°55 | 2°15 | 9°28 | 18°33 | 12°41 | 1°31 | 13°21 | 19°59 | 0°D22 | 28°58 | 21°13 | 6°34 | F 13 |
| S 14 | 1 30 27 | 20°43'52 | 0♌20 | 6°34 | 3°30 | 9°52 | 18°45 | 12°46 | 1°32 | 13°22 | 19°58 | 0°22 | 28°54 | 21°20 | 6°R34 | S 14 |
| S 15 | 1 34 23 | 21°42'58 | 12°13 | 8°14 | 4°44 | 10°17 | 18°58 | 12°51 | 1°34 | 13°23 | 19°56 | 0°24 | 28°51 | 21°27 | 6°34 | S 15 |
| M16 | 1 38 20 | 22°42'06 | 24°15 | 9°56 | 5°59 | 10°40 | 19°10 | 12°56 | 1°36 | 13°24 | 19°55 | 0°R25 | 28°48 | 21°33 | 6°34 | M16 |
| T 17 | 1 42 16 | 23°41'16 | 6♌30 | 11°39 | 7°13 | 11° 3 | 19°23 | 13° 2 | 1°38 | 13°25 | 19°54 | 0°25 | 28°45 | 21°40 | 6°34 | T 17 |
| W18 | 1 46 13 | 24°40'27 | 19° 2 | 13°23 | 8°28 | 11°26 | 19°35 | 13° 7 | 1°40 | 13°26 | 19°53 | 0°23 | 28°42 | 21°47 | 6°33 | W18 |
| T 19 | 1 50 10 | 25°39'41 | 1°Y55 | 15° 8 | 9°43 | 11°48 | 19°47 | 13°13 | 1°42 | 13°27 | 19°52 | 0°19 | 28°39 | 21°54 | 6°33 | T 19 |
| F 20 | 1 54 6 | 26°38'56 | 15° 8 | 16°53 | 10°57 | 12°10 | 20° 0 | 13°18 | 1°44 | 13°28 | 19°51 | 0°12 | 28°35 | 22° 0 | 6°33 | F 20 |
| S 21 | 1 58 3 | 27°38'13 | 28°41 | 18°38 | 12°12 | 12°32 | 20°13 | 13°24 | 1°46 | 13°29 | 19°49 | 0° 4 | 28°32 | 22° 7 | 6°32 | S 21 |
| S 22 | 2 1 59 | 28°37'32 | 12♌32 | 20°23 | 13°27 | 12°52 | 20°25 | 13°30 | 1°48 | 13°29 | 19°48 | 29♏54 | 28°29 | 22°14 | 6°32 | S 22 |
| M23 | 2 5 56 | 29°36'53 | 26°37 | 22° 8 | 14°41 | 13°13 | 20°38 | 13°35 | 1°50 | 13°30 | 19°47 | 29°44 | 28°26 | 22°20 | 6°31 | M23 |
| T 24 | 2 9 52 | 0♌36'17 | 10♎51 | 23°52 | 15°56 | 13°33 | 20°51 | 13°41 | 1°52 | 13°31 | 19°46 | 29°36 | 28°23 | 22°27 | 6°30 | T 24 |
| W25 | 2 13 49 | 1°35'43 | 25° 9 | 25°37 | 17°11 | 13°52 | 21° 3 | 13°47 | 1°54 | 13°32 | 19°45 | 29°29 | 28°19 | 22°34 | 6°30 | W25 |
| T 26 | 2 17 45 | 2°35'11 | 9♌26 | 27°21 | 18°26 | 14°11 | 21°16 | 13°53 | 1°56 | 13°33 | 19°44 | 29°24 | 28°16 | 22°40 | 6°29 | T 26 |
| F 27 | 2 21 42 | 3°34'41 | 23°39 | 29° 4 | 19°40 | 14°29 | 21°29 | 13°59 | 1°59 | 13°33 | 19°43 | 29°22 | 28°13 | 22°47 | 6°28 | F 27 |
| S 28 | 2 25 39 | 4°34'13 | 7♏47 | 0♌47 | 20°55 | 14°47 | 21°42 | 14° 5 | 2° 1 | 13°34 | 19°41 | 29°D21 | 28°10 | 22°54 | 6°27 | S 28 |
| S 29 | 2 29 35 | 5°33'48 | 21°47 | 2°30 | 22°10 | 15° 4 | 21°55 | 14°11 | 2° 3 | 13°35 | 19°40 | 29°22 | 28° 7 | 23° 0 | 6°26 | S 29 |
| M30 | 2 33 32 | 6°33'25 | 5♎40 | 4°12 | 23°25 | 15°21 | 22° 8 | 14°17 | 2° 6 | 13°35 | 19°39 | 29°R22 | 28° 4 | 23° 7 | 6°25 | M30 |
| T 31 | 2 37 28 | 7♌33'05 | 19♎25 | 5♌53 | 24♊40 | 15♌37 | 22♌21 | 14♌23 | 2♌ 8 | 13♏36 | 19°Y38 | 29♏20 | 28♏ 0 | 23♌14 | 6♌23 | T 31 |

Delta T = 18m39s

ASTRODIENST EPHEMERIS for the year 2575
geocentric

NOVEMBER 2575

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|-------|------|--------|--------|--------|--------|--------|-------|------|---|-----|
| W 1 | 2 41 25 | 8♎32°46 | 3♋1 | 7♎34 | 25♊55 | 15♉52 | 22♎34 | 14♈29 | 2♊11 | 13♎36 | 19°R37 | 29°R16 | 27♏57 | 23♎20 | 6°R22 | W 1 | | |
| T 2 | 2 45 21 | 9°32'30 | 16°28 | 9°14 | 27°10 | 16°7 | 22°46 | 14°35 | 2°13 | 13°37 | 19°Y36 | 29°Ω9 | 27°54 | 23°27 | 6♉21 | T 2 | | |
| F 3 | 2 49 18 | 10°32'15 | 29°44 | 10°54 | 28°25 | 16°21 | 22°59 | 14°42 | 2°16 | 13°37 | 19°35 | 28°59 | 27°51 | 23°34 | 6°19 | F 3 | | |
| S 4 | 2 53 14 | 11°32'03 | 12♎47 | 12°33 | 29°40 | 16°35 | 23°13 | 14°48 | 2°18 | 13°38 | 19°34 | 28°47 | 27°48 | 23°40 | 6°18 | S 4 | | |
| S 5 | 2 57 11 | 12°31'53 | 25°36 | 14°12 | 0♎55 | 16°48 | 23°26 | 14°54 | 2°21 | 13°38 | 19°33 | 28°34 | 27°44 | 23°47 | 6°16 | S 5 | | |
| M 6 | 3 1 8 | 13°31'44 | 8♈10 | 15°50 | 2°10 | 17°0 | 23°39 | 15°1 | 2°24 | 13°38 | 19°32 | 28°21 | 27°41 | 23°54 | 6°15 | M 6 | | |
| T 7 | 3 5 4 | 14°31'38 | 20°30 | 17°27 | 3°25 | 17°11 | 23°52 | 15°7 | 2°26 | 13°39 | 19°31 | 28°10 | 27°38 | 24°0 | 6°13 | T 7 | | |
| W 8 | 3 9 1 | 15°31'33 | 2♊36 | 19°4 | 4°40 | 17°22 | 24°5 | 15°14 | 2°29 | 13°39 | 19°30 | 28°0 | 27°35 | 24°7 | 6°11 | W 8 | | |
| T 9 | 3 12 57 | 16°31'30 | 14°33 | 20°41 | 5°56 | 17°32 | 24°18 | 15°20 | 2°32 | 13°39 | 19°29 | 27°54 | 27°32 | 24°14 | 6°9 | T 9 | | |
| F 10 | 3 16 54 | 17°31'28 | 26°22 | 22°17 | 7°11 | 17°42 | 24°31 | 15°27 | 2°35 | 13°39 | 19°28 | 27°50 | 27°29 | 24°20 | 6°7 | F 10 | | |
| S 11 | 3 20 50 | 18°31'28 | 8♌10 | 23°52 | 8°26 | 17°50 | 24°44 | 15°33 | 2°37 | 13°40 | 19°27 | 27°48 | 27°25 | 24°27 | 6°5 | S 11 | | |
| S 12 | 3 24 47 | 19°31'30 | 20°2 | 25°27 | 9°41 | 17°58 | 24°57 | 15°40 | 2°40 | 13°40 | 19°26 | 27°D47 | 27°22 | 24°34 | 6°3 | S 12 | | |
| M13 | 3 28 43 | 20°31'33 | 2♈2 | 27°2 | 10°56 | 18°6 | 25°11 | 15°47 | 2°43 | 13°40 | 19°25 | 27°R47 | 27°19 | 24°40 | 6°1 | M13 | | |
| T 14 | 3 32 40 | 21°31'38 | 14°16 | 28°36 | 12°11 | 18°12 | 25°24 | 15°53 | 2°46 | 13°40 | 19°24 | 27°47 | 27°16 | 24°47 | 5°59 | T 14 | | |
| W15 | 3 36 37 | 22°31'44 | 26°50 | 0♈10 | 13°27 | 18°18 | 25°37 | 16°0 | 2°49 | 13°40 | 19°23 | 27°44 | 27°13 | 24°54 | 5°57 | W15 | | |
| T 16 | 3 40 33 | 23°31'52 | 9°Y47 | 1°44 | 14°42 | 18°23 | 25°50 | 16°7 | 2°52 | 13°R40 | 19°22 | 27°39 | 27°10 | 25°0 | 5°54 | T 16 | | |
| F 17 | 3 44 30 | 24°32'01 | 23°10 | 3°17 | 15°57 | 18°27 | 26°3 | 16°13 | 2°55 | 13°40 | 19°21 | 27°31 | 27°6 | 25°7 | 5°52 | F 17 | | |
| S 18 | 3 48 26 | 25°32'12 | 7♉0 | 4°50 | 17°12 | 18°30 | 26°17 | 16°20 | 2°58 | 13°40 | 19°20 | 27°20 | 27°3 | 25°14 | 5°49 | S 18 | | |
| S 19 | 3 52 23 | 26°32'25 | 21°12 | 6°22 | 18°27 | 18°33 | 26°30 | 16°27 | 3°1 | 13°40 | 19°19 | 27°9 | 27°0 | 25°20 | 5°47 | S 19 | | |
| M20 | 3 56 19 | 27°32'39 | 5♈43 | 7°54 | 19°43 | 18°34 | 26°43 | 16°34 | 3°4 | 13°40 | 19°18 | 26°56 | 26°57 | 25°27 | 5°44 | M20 | | |
| T 21 | 4 0 16 | 28°32'55 | 20°25 | 9°26 | 20°58 | 18°35 | 26°56 | 16°41 | 3°8 | 13°40 | 19°17 | 26°45 | 26°54 | 25°34 | 5°42 | T 21 | | |
| W22 | 4 4 12 | 29°33'13 | 5♉9 | 10°57 | 22°13 | 18°R35 | 27°9 | 16°48 | 3°11 | 13°39 | 19°16 | 26°36 | 26°50 | 25°40 | 5°39 | W22 | | |
| T 23 | 4 8 9 | 0♈33'33 | 19°49 | 12°28 | 23°29 | 18°34 | 27°23 | 16°55 | 3°14 | 13°39 | 19°16 | 26°30 | 26°47 | 25°47 | 5°36 | T 23 | | |
| F 24 | 4 12 6 | 1°33'55 | 4♎19 | 13°59 | 24°44 | 18°33 | 27°36 | 17°2 | 3°17 | 13°39 | 19°15 | 26°26 | 26°44 | 25°54 | 5°34 | F 24 | | |
| S 25 | 4 16 2 | 2°34'18 | 18°34 | 15°30 | 25°59 | 18°30 | 27°49 | 17°9 | 3°20 | 13°39 | 19°14 | 26°25 | 26°41 | 26°0 | 5°31 | S 25 | | |
| S 26 | 4 19 59 | 3°34'44 | 2♎35 | 17°0 | 27°15 | 18°27 | 28°2 | 17°15 | 3°24 | 13°38 | 19°13 | 26°25 | 26°38 | 26°7 | 5°28 | S 26 | | |
| M27 | 4 23 55 | 4°35'11 | 16°19 | 18°30 | 28°30 | 18°23 | 28°15 | 17°22 | 3°27 | 13°38 | 19°12 | 26°25 | 26°35 | 26°14 | 5°25 | M27 | | |
| T 28 | 4 27 52 | 5°35'40 | 29°50 | 19°59 | 29°45 | 18°17 | 28°29 | 17°29 | 3°30 | 13°38 | 19°12 | 26°23 | 26°31 | 26°20 | 5°22 | T 28 | | |
| W29 | 4 31 48 | 6°36'11 | 13♋7 | 21°28 | 1♈1 | 18°11 | 28°42 | 17°37 | 3°34 | 13°37 | 19°11 | 26°18 | 26°28 | 26°27 | 5°19 | W29 | | |
| T 30 | 4 35 45 | 7°36'44 | 26♋12 | 22♈57 | 2♈16 | 18♉4 | 28♎55 | 17♈44 | 3♊37 | 13♎37 | 19°Y10 | 26°Ω11 | 26°Ω25 | 26°Ω34 | 5♉16 | T 30 | | |

Delta T = 18m40s

DECEMBER 2575

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|-------|------|--------|--------|--------|--------|--------|-------|------|---|-----|
| F 1 | 4 39 41 | 8♈37°18 | 9♎6 | 24♈25 | 3♈31 | 17°R57 | 29♎8 | 17♈51 | 3♊40 | 13°R36 | 19°R9 | 26°R1 | 26°Ω22 | 26°Ω40 | 5°R13 | F 1 | | |
| S 2 | 4 43 38 | 9°37'54 | 21°48 | 25°53 | 4°47 | 17°Ω48 | 29°21 | 17°58 | 3°44 | 13°Ω36 | 19°Y9 | 25°Ω48 | 26°19 | 26°47 | 5♉9 | S 2 | | |
| S 3 | 4 47 35 | 10°38'32 | 4♈20 | 27°20 | 6°2 | 17°38 | 29°34 | 18°5 | 3°47 | 13°35 | 19°8 | 25°34 | 26°16 | 26°54 | 5°6 | S 3 | | |
| M 4 | 4 51 31 | 11°39'11 | 16°40 | 28°47 | 7°18 | 17°28 | 29°47 | 18°12 | 3°51 | 13°35 | 19°7 | 25°21 | 26°12 | 27°0 | 5°3 | M 4 | | |
| T 5 | 4 55 28 | 12°39'51 | 28°50 | 0♊13 | 8°33 | 17°17 | 0♈1 | 18°19 | 3°54 | 13°34 | 19°7 | 25°8 | 26°9 | 27°7 | 5°0 | T 5 | | |
| W 6 | 4 59 24 | 13°40'32 | 10♊51 | 1°38 | 9°49 | 17°5 | 0°14 | 18°26 | 3°58 | 13°33 | 19°6 | 24°58 | 26°6 | 27°14 | 4°56 | W 6 | | |
| T 7 | 5 3 21 | 14°41'15 | 22°43 | 3°3 | 11°4 | 16°52 | 0°27 | 18°33 | 4°1 | 13°33 | 19°6 | 24°51 | 26°3 | 27°20 | 4°53 | T 7 | | |
| F 8 | 5 7 17 | 15°41'59 | 4♋31 | 4°26 | 12°19 | 16°38 | 0°40 | 18°40 | 4°4 | 13°32 | 19°5 | 24°46 | 26°0 | 27°27 | 4°50 | F 8 | | |
| S 9 | 5 11 14 | 16°42'44 | 16°17 | 5°49 | 13°35 | 16°23 | 0°53 | 18°47 | 4°8 | 13°31 | 19°4 | 24°44 | 25°56 | 27°34 | 4°46 | S 9 | | |
| S 10 | 5 15 10 | 17°43'30 | 28°7 | 7°10 | 14°50 | 16°8 | 1°6 | 18°54 | 4°12 | 13°30 | 19°4 | 24°D43 | 25°53 | 27°40 | 4°43 | S 10 | | |
| M11 | 5 19 7 | 18°44'17 | 10♈4 | 8°29 | 16°6 | 15°52 | 1°19 | 19°2 | 4°15 | 13°30 | 19°3 | 24°44 | 25°50 | 27°47 | 4°39 | M11 | | |
| T 12 | 5 23 4 | 19°45'05 | 22°15 | 9°47 | 17°21 | 15°35 | 1°31 | 19°9 | 4°19 | 13°29 | 19°3 | 24°R44 | 25°47 | 27°54 | 4°36 | T 12 | | |
| W13 | 5 27 0 | 20°45'53 | 4°Y45 | 11°3 | 18°37 | 15°17 | 1°44 | 19°16 | 4°22 | 13°28 | 19°2 | 24°43 | 25°44 | 28°0 | 4°32 | W13 | | |
| T 14 | 5 30 57 | 21°46'42 | 17°39 | 12°17 | 19°52 | 14°59 | 1°57 | 19°23 | 4°26 | 13°27 | 19°2 | 24°40 | 25°41 | 28°7 | 4°29 | T 14 | | |
| F 15 | 5 34 53 | 22°47'33 | 1♉0 | 13°28 | 21°8 | 14°40 | 2°10 | 19°30 | 4°29 | 13°26 | 19°2 | 24°34 | 25°37 | 28°14 | 4°25 | F 15 | | |
| S 16 | 5 38 50 | 23°48'24 | 14°51 | 14°36 | 22°23 | 14°21 | 2°23 | 19°37 | 4°33 | 13°25 | 19°1 | 24°27 | 25°34 | 28°20 | 4°21 | S 16 | | |
| S 17 | 5 42 46 | 24°49'16 | 29°11 | 15°41 | 23°39 | 14°1 | 2°36 | 19°44 | 4°37 | 13°24 | 19°1 | 24°17 | 25°31 | 28°27 | 4°18 | S 17 | | |
| M18 | 5 46 43 | 25°50'09 | 13♈54 | 16°42 | 24°54 | 13°41 | 2°48 | 19°51 | 4°40 | 13°23 | 19°0 | 24°8 | 25°28 | 28°33 | 4°14 | M18 | | |
| T 19 | 5 50 39 | 26°51'02 | 28°54 | 17°38 | 26°9 | 13°19 | 3°1 | 19°58 | 4°44 | 13°22 | 19°0 | 23°59 | 25°25 | 28°40 | 4°10 | T 19 | | |
| W20 | 5 54 36 | 27°51'57 | 14♉1 | 18°29 | 27°25 | 12°58 | 3°14 | 20°6 | 4°47 | 13°21 | 19°0 | 23°51 | 25°22 | 28°47 | 4°7 | W20 | | |
| T 21 | 5 58 33 | 28°52'53 | 29°5 | 19°14 | 28°40 | 12°36 | 3°26 | 20°13 | 4°51 | 13°20 | 18°59 | 23°47 | 25°18 | 28°53 | 4°3 | T 21 | | |
| F 22 | 6 2 29 | 29°53'49 | 13♎58 | 19°52 | 29°56 | 12°14 | 3°39 | 20°20 | 4°55 | 13°19 | 18°59 | 23°44 | 25°15 | 29°0 | 3°59 | F 22 | | |
| S 23 | 6 6 26 | 0♊54'47 | 28°32 | 20°23 | 1♊11 | 11°51 | 3°51 | 20°27 | 4°58 | 13°18 | 18°59 | 23°D44 | 25°12 | 29°7 | 3°56 | S 23 | | |
| S 24 | 6 10 22 | 1°55'45 | 12♎46 | 20°46 | 2°27 | 11°28 | 4°4 | 20°34 | 5°2 | 13°17 | 18°59 | 23°45 | 25°9 | 29°13 | 3°52 | S 24 | | |
| M25 | 6 14 19 | 2°56'45 | 26°36 | 20°59 | 3°42 | 11°5 | 4°16 | 20°41 | 5°6 | 13°15 | 18°58 | 23°R46 | 25°6 | 29°20 | 3°48 | M25 | | |
| T 26 | 6 18 15 | 3°57'46 | 10♋5 | 21°R1 | 4°58 | 10°42 | 4°29 | 20°48 | 5°9 | 13°14 | 18°58 | 23°46 | 25°2 | 29°27 | 3°44 | T 26 | | |
| W27 | 6 22 12 | 4°58'47 | 23°15 | 20°53 | 6°13 | 10°18 | 4°41 | 20°55 | 5°13 | 13°13 | 18°58 | 23°44 | 24°59 | 29°33 | 3°41 | W27 | | |
| T 28 | 6 26 8 | 5°59'50 | 6♎8 | 20°34 | 7°29 | 9°55 | 4°53 | 21°2 | 5°16 | 13°12 | 18°58 | 23°40 | 24°56 | 29°40 | 3°37 | T 28 | | |
| F 29 | 6 30 5 | 7°0'53 | 18°46 | 20°3 | 8°44 | 9°31 | 5°5 | 21°9 | 5°20 | 13°10 | 18°58 | 23°34 | 24°53 | 29°47 | 3°33 | F 29 | | |
| S 30 | 6 34 2 | 8°1'58 | 1♈12 | 19°20 | 10°0 | 9°7 | 5°18 | 21°16 | 5°24 | 13°9 | 18°58 | 23°26 | 24°50 | 29°53 | 3°29 | S 30 | | |
| S 31 | 6 37 58 | 9♊3'03 | 13♈28 | 18♊26 | 11♊15 | 8♉44 | 5♈30 | 21♈23 | 5♊27 | 13♎8 | 18°Y58 | 23°Ω17 | 24°Ω47 | 0♌0 | 3♉26 | S 31 | | |

Delta T = 18m40s

ASTRODIENST EPHEMERIS for the year 2576
geocentric

JANUARY 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|-----|---------|----------|-------|--------|-------|-------|-------|-------|------|--------|--------|--------|-------|------|-------|-----|---|---|---|---|---|---|---|-----|
| M 1 | 6 41 55 | 10♋4'08 | 25♊34 | 17°R23 | 12♋31 | 8°R20 | 5♊42 | 21♊29 | 5♋31 | 13°R 6 | 18°R58 | 23°R 8 | 24♏43 | 0♋7 | 3°R22 | M 1 | | | | | | | | |
| T 2 | 6 45 51 | 11° 5'15 | 7♋34 | 16♋11 | 13°46 | 7♌57 | 5°54 | 21°36 | 5°35 | 13♌5 | 18°D58 | 23♏0 | 24°40 | 0°13 | 3♌18 | T 2 | | | | | | | | |
| W 3 | 6 49 48 | 12° 6'21 | 19°27 | 14°53 | 15° 2 | 7°34 | 6° 6 | 21°43 | 5°38 | 13° 4 | 18°V58 | 22°54 | 24°37 | 0°20 | 3°15 | W 3 | | | | | | | | |
| T 4 | 6 53 44 | 13° 7'28 | 1♌17 | 13°31 | 16°17 | 7°11 | 6°18 | 21°50 | 5°42 | 13° 2 | 18°58 | 22°49 | 24°34 | 0°27 | 3°11 | T 4 | | | | | | | | |
| F 5 | 6 57 41 | 14° 8'35 | 13° 3 | 12° 9 | 17°33 | 6°48 | 6°29 | 21°57 | 5°46 | 13° 1 | 18°58 | 22°47 | 24°31 | 0°33 | 3° 7 | F 5 | | | | | | | | |
| S 6 | 7 1 38 | 15° 9'43 | 24°51 | 10°49 | 18°48 | 6°26 | 6°41 | 22° 3 | 5°49 | 12°59 | 18°58 | 22°D46 | 24°28 | 0°40 | 3° 4 | S 6 | | | | | | | | |
| S 7 | 7 5 34 | 16°10'50 | 6♌41 | 9°33 | 20° 4 | 6° 4 | 6°53 | 22°10 | 5°53 | 12°58 | 18°58 | 22°47 | 24°24 | 0°47 | 3° 0 | S 7 | | | | | | | | |
| M 8 | 7 9 31 | 17°11'58 | 18°39 | 8°23 | 21°19 | 5°43 | 7° 4 | 22°17 | 5°56 | 12°57 | 18°58 | 22°49 | 24°21 | 0°53 | 2°56 | M 8 | | | | | | | | |
| T 9 | 7 13 27 | 18°13'05 | 0♍49 | 7°22 | 22°35 | 5°22 | 7°16 | 22°24 | 6° 0 | 12°55 | 18°58 | 22°51 | 24°18 | 1° 0 | 2°53 | T 9 | | | | | | | | |
| W10 | 7 17 24 | 19°14'12 | 13°16 | 6°30 | 23°50 | 5° 2 | 7°27 | 22°30 | 6° 4 | 12°54 | 18°58 | 22°R52 | 24°15 | 1° 7 | 2°49 | W10 | | | | | | | | |
| T11 | 7 21 20 | 20°15'20 | 26° 4 | 5°49 | 25° 6 | 4°42 | 7°39 | 22°37 | 6° 7 | 12°52 | 18°58 | 22°52 | 24°12 | 1°13 | 2°46 | T11 | | | | | | | | |
| F12 | 7 25 17 | 21°16'27 | 9♌18 | 5°17 | 26°21 | 4°23 | 7°50 | 22°43 | 6°11 | 12°50 | 18°59 | 22°51 | 24° 8 | 1°20 | 2°42 | F12 | | | | | | | | |
| S13 | 7 29 13 | 22°17'33 | 22°59 | 4°56 | 27°37 | 4° 4 | 8° 1 | 22°50 | 6°14 | 12°49 | 18°59 | 22°48 | 24° 5 | 1°27 | 2°39 | S13 | | | | | | | | |
| S14 | 7 33 10 | 23°18'40 | 7♍10 | 4°45 | 28°52 | 3°46 | 8°13 | 22°56 | 6°18 | 12°47 | 18°59 | 22°44 | 24° 2 | 1°33 | 2°35 | S14 | | | | | | | | |
| M15 | 7 37 7 | 24°19'46 | 21°48 | 4°D44 | 0♋7 | 3°29 | 8°24 | 23° 3 | 6°21 | 12°46 | 18°59 | 22°40 | 23°59 | 1°40 | 2°32 | M15 | | | | | | | | |
| T16 | 7 41 3 | 25°20'53 | 6♌47 | 4°51 | 1°23 | 3°13 | 8°35 | 23° 9 | 6°25 | 12°44 | 19° 0 | 22°36 | 23°56 | 1°47 | 2°29 | T16 | | | | | | | | |
| W17 | 7 45 0 | 26°21'59 | 22° 0 | 5° 6 | 2°38 | 2°57 | 8°46 | 23°16 | 6°28 | 12°43 | 19° 0 | 22°32 | 23°53 | 1°53 | 2°25 | W17 | | | | | | | | |
| T18 | 7 48 56 | 27°23'04 | 7♎16 | 5°29 | 3°54 | 2°42 | 8°56 | 23°22 | 6°32 | 12°41 | 19° 0 | 22°30 | 23°49 | 2° 0 | 2°22 | T18 | | | | | | | | |
| F19 | 7 52 53 | 28°24'10 | 22°26 | 5°58 | 5° 9 | 2°27 | 9° 7 | 23°28 | 6°35 | 12°39 | 19° 1 | 22°D30 | 23°46 | 2° 7 | 2°19 | F19 | | | | | | | | |
| S20 | 7 56 49 | 29°25'15 | 7♏19 | 6°34 | 6°25 | 2°14 | 9°18 | 23°34 | 6°39 | 12°38 | 19° 1 | 22°30 | 23°43 | 2°13 | 2°16 | S20 | | | | | | | | |
| S21 | 8 0 46 | 0♋26'21 | 21°51 | 7°14 | 7°40 | 2° 1 | 9°28 | 23°41 | 6°42 | 12°36 | 19° 2 | 22°31 | 23°40 | 2°20 | 2°12 | S21 | | | | | | | | |
| M22 | 8 4 42 | 1°27'26 | 5♌57 | 8° 0 | 8°55 | 1°49 | 9°39 | 23°47 | 6°45 | 12°34 | 19° 2 | 22°33 | 23°37 | 2°27 | 2° 9 | M22 | | | | | | | | |
| T23 | 8 8 39 | 2°28'31 | 19°36 | 8°50 | 10°11 | 1°38 | 9°49 | 23°53 | 6°49 | 12°33 | 19° 3 | 22°34 | 23°34 | 2°33 | 2° 6 | T23 | | | | | | | | |
| W24 | 8 12 36 | 3°29'37 | 2♍50 | 9°44 | 11°26 | 1°27 | 10° 0 | 23°59 | 6°52 | 12°31 | 19° 3 | 22°R35 | 23°30 | 2°40 | 2° 3 | W24 | | | | | | | | |
| T25 | 8 16 32 | 4°30'42 | 15°42 | 10°42 | 12°42 | 1°18 | 10°10 | 24° 5 | 6°56 | 12°29 | 19° 3 | 22°34 | 23°27 | 2°46 | 2° 0 | T25 | | | | | | | | |
| F26 | 8 20 29 | 5°31'47 | 28°15 | 11°42 | 13°57 | 1° 9 | 10°20 | 24°11 | 6°59 | 12°28 | 19° 4 | 22°33 | 23°24 | 2°53 | 1°57 | F26 | | | | | | | | |
| S27 | 8 24 25 | 6°32'52 | 10♊32 | 12°46 | 15°12 | 1° 1 | 10°30 | 24°17 | 7° 2 | 12°26 | 19° 5 | 22°31 | 23°21 | 3° 0 | 1°54 | S27 | | | | | | | | |
| S28 | 8 28 22 | 7°33'57 | 22°38 | 13°52 | 16°28 | 0°53 | 10°40 | 24°23 | 7° 5 | 12°24 | 19° 5 | 22°29 | 23°18 | 3° 6 | 1°52 | S28 | | | | | | | | |
| M29 | 8 32 18 | 8°35'01 | 4♋35 | 15° 0 | 17°43 | 0°47 | 10°50 | 24°28 | 7° 9 | 12°23 | 19° 6 | 22°26 | 23°14 | 3°13 | 1°49 | M29 | | | | | | | | |
| T30 | 8 36 15 | 9°36'05 | 16°26 | 16°11 | 18°58 | 0°42 | 10°59 | 24°34 | 7°12 | 12°21 | 19° 6 | 22°24 | 23°11 | 3°20 | 1°46 | T30 | | | | | | | | |
| W31 | 8 40 11 | 10♋37'08 | 28♋15 | 17♋23 | 20♋14 | 0♌37 | 11♊9 | 24♊40 | 7♋15 | 12♏19 | 19°V 7 | 22♏23 | 23♏8 | 3♋26 | 1♌43 | W31 | | | | | | | | |

Delta T = 18m40s

FEBRUARY 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|-----|----------|----------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|-------|------|-------|-----|---|---|---|---|---|---|---|-----|
| T 1 | 8 44 8 | 11♋38'11 | 10♋2 | 18♋37 | 21♋29 | 0°R33 | 11♊18 | 24♊45 | 7♋18 | 12°R18 | 19°V 8 | 22°R22 | 23♏5 | 3♋33 | 1°R41 | T 1 | | | | | | | | |
| F 2 | 8 48 5 | 12°39'13 | 21°51 | 19°53 | 22°44 | 0♌30 | 11°28 | 24°51 | 7°21 | 12♏16 | 19° 8 | 22°D21 | 23° 2 | 3°40 | 1♌38 | F 2 | | | | | | | | |
| S 3 | 8 52 1 | 13°40'14 | 3♌43 | 21°10 | 24° 0 | 0°27 | 11°37 | 24°56 | 7°25 | 12°14 | 19° 9 | 22°D22 | 22°59 | 3°46 | 1°36 | S 3 | | | | | | | | |
| S 4 | 8 55 58 | 14°41'15 | 15°41 | 22°29 | 25°15 | 0°26 | 11°46 | 25° 2 | 7°28 | 12°13 | 19°10 | 22°22 | 22°55 | 3°53 | 1°33 | S 4 | | | | | | | | |
| M 5 | 8 59 54 | 15°42'14 | 27°47 | 23°49 | 26°30 | 0°D25 | 11°55 | 25° 7 | 7°31 | 12°11 | 19°10 | 22°23 | 22°52 | 4° 0 | 1°31 | M 5 | | | | | | | | |
| T 6 | 9 3 51 | 16°43'13 | 10♍3 | 25°10 | 27°46 | 0°25 | 12° 4 | 25°13 | 7°34 | 12° 9 | 19°11 | 22°24 | 22°49 | 4° 6 | 1°29 | T 6 | | | | | | | | |
| W 7 | 9 7 47 | 17°44'10 | 22°34 | 26°32 | 29° 1 | 0°26 | 12°13 | 25°18 | 7°37 | 12° 7 | 19°12 | 22°24 | 22°46 | 4°13 | 1°27 | W 7 | | | | | | | | |
| T 8 | 9 11 44 | 18°45'06 | 5♌21 | 27°55 | 0♌16 | 0°27 | 12°22 | 25°23 | 7°40 | 12° 6 | 19°13 | 22°24 | 22°43 | 4°20 | 1°24 | T 8 | | | | | | | | |
| F 9 | 9 15 40 | 19°46'01 | 18°30 | 29°19 | 1°31 | 0°30 | 12°30 | 25°28 | 7°43 | 12° 4 | 19°14 | 22°R25 | 22°39 | 4°26 | 1°22 | F 9 | | | | | | | | |
| S10 | 9 19 37 | 20°46'55 | 2♍1 | 0♋44 | 2°46 | 0°33 | 12°39 | 25°33 | 7°46 | 12° 2 | 19°14 | 22°25 | 22°36 | 4°33 | 1°20 | S10 | | | | | | | | |
| S11 | 9 23 34 | 21°47'48 | 15°57 | 2°10 | 4° 2 | 0°36 | 12°47 | 25°38 | 7°49 | 12° 1 | 19°15 | 22°24 | 22°33 | 4°40 | 1°18 | S11 | | | | | | | | |
| M12 | 9 27 30 | 22°48'39 | 0♌17 | 3°37 | 5°17 | 0°41 | 12°55 | 25°43 | 7°51 | 11°59 | 19°16 | 22°D24 | 22°30 | 4°46 | 1°17 | M12 | | | | | | | | |
| T13 | 9 31 27 | 23°49'29 | 15° 0 | 5° 5 | 6°32 | 0°46 | 13° 3 | 25°48 | 7°54 | 11°57 | 19°17 | 22°25 | 22°27 | 4°53 | 1°15 | T13 | | | | | | | | |
| W14 | 9 35 23 | 24°50'18 | 29°59 | 6°34 | 7°47 | 0°52 | 13°11 | 25°53 | 7°57 | 11°56 | 19°18 | 22°25 | 22°24 | 5° 0 | 1°13 | W14 | | | | | | | | |
| T15 | 9 39 20 | 25°51'05 | 15♎7 | 8° 4 | 9° 2 | 0°58 | 13°19 | 25°57 | 8° 0 | 11°54 | 19°19 | 22°R25 | 22°20 | 5° 6 | 1°11 | T15 | | | | | | | | |
| F16 | 9 43 16 | 26°51'52 | 0♎16 | 9°34 | 10°17 | 1° 5 | 13°27 | 26° 2 | 8° 2 | 11°53 | 19°20 | 22°25 | 22°17 | 5°13 | 1°10 | F16 | | | | | | | | |
| S17 | 9 47 13 | 27°52'37 | 15°15 | 11° 5 | 11°32 | 1°13 | 13°34 | 26° 6 | 8° 5 | 11°51 | 19°21 | 22°25 | 22°14 | 5°19 | 1° 8 | S17 | | | | | | | | |
| S18 | 9 51 9 | 28°53'21 | 29°58 | 12°37 | 12°47 | 1°21 | 13°41 | 26°11 | 8° 8 | 11°49 | 19°22 | 22°24 | 22°11 | 5°26 | 1° 7 | S18 | | | | | | | | |
| M19 | 9 55 6 | 29°54'03 | 14♌17 | 14°10 | 14° 2 | 1°30 | 13°49 | 26°15 | 8°10 | 11°48 | 19°23 | 22°23 | 22° 8 | 5°33 | 1° 5 | M19 | | | | | | | | |
| T20 | 9 59 2 | 0♌54'45 | 28° 9 | 15°44 | 15°17 | 1°40 | 13°56 | 26°20 | 8°13 | 11°46 | 19°24 | 22°22 | 22° 5 | 5°39 | 1° 4 | T20 | | | | | | | | |
| W21 | 10 2 59 | 1°55'26 | 11♍33 | 17°18 | 16°32 | 1°50 | 14° 3 | 26°24 | 8°15 | 11°45 | 19°25 | 22°21 | 22° 1 | 5°46 | 1° 3 | W21 | | | | | | | | |
| T22 | 10 6 56 | 2°56'06 | 24°31 | 18°54 | 17°47 | 2° 1 | 14°10 | 26°28 | 8°18 | 11°43 | 19°26 | 22°21 | 21°58 | 5°53 | 1° 2 | T22 | | | | | | | | |
| F23 | 10 10 52 | 3°56'44 | 7♌7 | 20°30 | 19° 2 | 2°12 | 14°16 | 26°32 | 8°20 | 11°41 | 19°27 | 22°D21 | 21°55 | 5°59 | 1° 1 | F23 | | | | | | | | |
| S24 | 10 14 49 | 4°57'22 | 19°24 | 22° 7 | 20°17 | 2°24 | 14°23 | 26°36 | 8°23 | 11°40 | 19°28 | 22°21 | 21°52 | 6° 6 | 1° 0 | S24 | | | | | | | | |
| S25 | 10 18 45 | 5°57'59 | 1♋26 | 23°45 | 21°32 | 2°37 | 14°29 | 26°40 | 8°25 | 11°38 | 19°29 | 22°22 | 21°49 | 6°13 | 0°59 | S25 | | | | | | | | |
| M26 | 10 22 42 | 6°58'34 | 13°19 | 25°23 | 22°47 | 2°50 | 14°35 | 26°44 | 8°27 | 11°37 | 19°30 | 22°23 | 21°45 | 6°19 | 0°58 | M26 | | | | | | | | |
| T27 | 10 26 38 | 7°59'08 | 25° 7 | 27° 3 | 24° 2 | 3° 3 | 14°41 | 26°48 | 8°30 | 11°35 | 19°31 | 22°25 | 21°42 | 6°26 | 0°57 | T27 | | | | | | | | |
| W28 | 10 30 35 | 8°59'41 | 6♋54 | 28°43 | 25°17 | 3°17 | 14°47 | 26°51 | 8°32 | 11°34 | 19°33 | 22°26 | 21°39 | 6°33 | 0°56 | W28 | | | | | | | | |
| T29 | 10 34 31 | 10♌0'12 | 18♋42 | 0♌25 | 26♌32 | 3♌32 | 14♊53 | 26♊55 | 8♋34 | 11♏32 | 19°V34 | 22°R27 | 21♏36 | 6♋39 | 0♌56 | T29 | | | | | | | | |

Delta T = 18m41s

ASTRODIENST EPHEMERIS for the year 2576
geocentric

MARCH 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|------------------------|----------------------|---------------------|--------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|------|-----|
| F 1 | 10 38 28 | 11 [♁] 0'42 | 0 [♁] 36 | 2 [♁] 7 | 27 [♁] 47 | 3 [♁] 47 | 14 [♁] 59 | 26 [♁] 58 | 8 [♁] 36 | 11 [♁] 31 | 19 [♁] 35 | 22 [♁] R26 | 21 [♁] Ω33 | 6 [♁] 46 | 0 [♁] R55 | F 1 | |
| S 2 | 10 42 25 | 12° 1'11 | 12° 37 | 3° 50 | 29° 1 | 4° 2 | 15° 4 | 27° 2 | 8° 38 | 11 [♁] Ω30 | 19° 36 | 22 [♁] Ω25 | 21° 30 | 6° 53 | 0 [♁] Ω55 | S 2 | |
| S 3 | 10 46 21 | 13° 1'37 | 24° 46 | 5° 35 | 0 [♁] Y16 | 4° 18 | 15° 9 | 27° 5 | 8° 40 | 11° 28 | 19° 37 | 22° 23 | 21° 26 | 6° 59 | 0° 55 | S 3 | |
| M 4 | 10 50 18 | 14° 2'03 | 7 [♁] Y 6 | 7° 20 | 1° 31 | 4° 34 | 15° 15 | 27° 8 | 8° 43 | 11° 27 | 19° 38 | 22° 20 | 21° 23 | 7° 6 | 0° 54 | M 4 | |
| T 5 | 10 54 14 | 15° 2'26 | 19° 38 | 9° 6 | 2° 46 | 4° 51 | 15° 19 | 27° 11 | 8° 44 | 11° 25 | 19° 40 | 22° 16 | 21° 20 | 7° 13 | 0° 54 | T 5 | |
| W 6 | 10 58 11 | 16° 2'48 | 2 [♁] Ω22 | 10° 53 | 4° 0 | 5° 8 | 15° 24 | 27° 14 | 8° 46 | 11° 24 | 19° 41 | 22° 12 | 21° 17 | 7° 19 | 0° 54 | W 6 | |
| T 7 | 11 2 7 | 17° 3'07 | 15° 20 | 12° 41 | 5° 15 | 5° 26 | 15° 29 | 27° 17 | 8° 48 | 11° 23 | 19° 42 | 22° 9 | 21° 14 | 7° 26 | 0° D54 | T 7 | |
| F 8 | 11 6 4 | 18° 3'25 | 28° 33 | 14° 30 | 6° 29 | 5° 44 | 15° 33 | 27° 20 | 8° 50 | 11° 21 | 19° 43 | 22° 6 | 21° 11 | 7° 32 | 0° 54 | F 8 | |
| S 9 | 11 10 0 | 19° 3'41 | 12 [♁] II 3 | 16° 21 | 7° 44 | 6° 3 | 15° 38 | 27° 23 | 8° 52 | 11° 20 | 19° 45 | 22° 5 | 21° 7 | 7° 39 | 0° 54 | S 9 | |
| S 10 | 11 13 57 | 20° 3'56 | 25° 50 | 18° 12 | 8° 59 | 6° 22 | 15° 42 | 27° 26 | 8° 54 | 11° 19 | 19° 46 | 22° D 5 | 21° 4 | 7° 46 | 0° 54 | S 10 | |
| M 11 | 11 17 54 | 21° 4'08 | 9 [♁] Ω55 | 20° 4 | 10° 13 | 6° 41 | 15° 46 | 27° 28 | 8° 55 | 11° 18 | 19° 47 | 22° 6 | 21° 1 | 7° 52 | 0° 55 | M 11 | |
| T 12 | 11 21 50 | 22° 4'17 | 24° 16 | 21° 57 | 11° 28 | 7° 1 | 15° 49 | 27° 31 | 8° 57 | 11° 17 | 19° 49 | 22° 8 | 20° 58 | 7° 59 | 0° 55 | T 12 | |
| W 13 | 11 25 47 | 23° 4'25 | 8 [♁] Ω51 | 23° 50 | 12° 42 | 7° 21 | 15° 53 | 27° 33 | 8° 59 | 11° 15 | 19° 50 | 22° 9 | 20° 55 | 8° 6 | 0° 55 | W 13 | |
| T 14 | 11 29 43 | 24° 4'31 | 23° 37 | 25° 45 | 13° 56 | 7° 41 | 15° 57 | 27° 36 | 9° 0 | 11° 14 | 19° 51 | 22° R 9 | 20° 51 | 8° 12 | 0° 56 | T 14 | |
| F 15 | 11 33 40 | 25° 4'35 | 8 [♁] II 26 | 27° 41 | 15° 11 | 8° 2 | 16° 0 | 27° 38 | 9° 2 | 11° 13 | 19° 52 | 22° 8 | 20° 48 | 8° 19 | 0° 57 | F 15 | |
| S 16 | 11 37 36 | 26° 4'37 | 23° 13 | 29° 37 | 16° 25 | 8° 23 | 16° 3 | 27° 40 | 9° 3 | 11° 12 | 19° 54 | 22° 6 | 20° 45 | 8° 26 | 0° 57 | S 16 | |
| S 17 | 11 41 33 | 27° 4'37 | 7 [♁] Ω49 | 1 [♁] Y34 | 17° 39 | 8° 44 | 16° 6 | 27° 42 | 9° 5 | 11° 11 | 19° 55 | 22° 2 | 20° 42 | 8° 32 | 0° 58 | S 17 | |
| M 18 | 11 45 29 | 28° 4'35 | 22° 8 | 3° 31 | 18° 54 | 9° 6 | 16° 8 | 27° 44 | 9° 6 | 11° 10 | 19° 57 | 21° 56 | 20° 39 | 8° 39 | 0° 59 | M 18 | |
| T 19 | 11 49 26 | 29° 4'31 | 6 [♁] II 4 | 5° 28 | 20° 8 | 9° 28 | 16° 11 | 27° 46 | 9° 7 | 11° 9 | 19° 58 | 21° 50 | 20° 36 | 8° 46 | 1° 0 | T 19 | |
| W 20 | 11 53 23 | 0 [♁] Y 426 | 19° 34 | 7° 26 | 21° 22 | 9° 50 | 16° 13 | 27° 47 | 9° 8 | 11° 8 | 19° 59 | 21° 44 | 20° 32 | 8° 52 | 1° 1 | W 20 | |
| T 21 | 11 57 19 | 1° 4'19 | 2 [♁] X39 | 9° 24 | 22° 36 | 10° 13 | 16° 15 | 27° 49 | 9° 10 | 11° 7 | 20° 1 | 21° 39 | 20° 29 | 8° 59 | 1° 2 | T 21 | |
| F 22 | 12 1 16 | 2° 4'11 | 15° 20 | 11° 21 | 23° 50 | 10° 36 | 16° 17 | 27° 51 | 9° 11 | 11° 6 | 20° 2 | 21° 36 | 20° 26 | 9° 6 | 1° 3 | F 22 | |
| S 23 | 12 5 12 | 3° 4'01 | 27° 40 | 13° 17 | 25° 5 | 10° 59 | 16° 19 | 27° 52 | 9° 12 | 11° 5 | 20° 3 | 21° 35 | 20° 23 | 9° 12 | 1° 4 | S 23 | |
| S 24 | 12 9 9 | 4° 3'49 | 9 [♁] Ω44 | 15° 13 | 26° 19 | 11° 23 | 16° 21 | 27° 53 | 9° 13 | 11° 4 | 20° 5 | 21° D35 | 20° 20 | 9° 19 | 1° 6 | S 24 | |
| M 25 | 12 13 5 | 5° 3'36 | 21° 37 | 17° 7 | 27° 33 | 11° 46 | 16° 22 | 27° 55 | 9° 14 | 11° 3 | 20° 6 | 21° 36 | 20° 16 | 9° 25 | 1° 7 | M 25 | |
| T 26 | 12 17 2 | 6° 3'21 | 3 [♁] Ω25 | 19° 0 | 28° 47 | 12° 10 | 16° 24 | 27° 56 | 9° 15 | 11° 2 | 20° 8 | 21° 37 | 20° 13 | 9° 32 | 1° 8 | T 26 | |
| W 27 | 12 20 58 | 7° 3'04 | 15° 12 | 20° 50 | 0 [♁] 1 | 12° 35 | 16° 25 | 27° 57 | 9° 16 | 11° 2 | 20° 9 | 21° 38 | 20° 10 | 9° 39 | 1° 10 | W 27 | |
| T 28 | 12 24 55 | 8° 2'46 | 27° 3 | 22° 38 | 1° 15 | 12° 59 | 16° 26 | 27° 58 | 9° 17 | 11° 1 | 20° 10 | 21° R38 | 20° 7 | 9° 45 | 1° 12 | T 28 | |
| F 29 | 12 28 51 | 9° 2'25 | 9 [♁] X 2 | 24° 23 | 2° 28 | 13° 24 | 16° 26 | 27° 58 | 9° 17 | 11° 0 | 20° 12 | 21° 37 | 20° 4 | 9° 52 | 1° 13 | F 29 | |
| S 30 | 12 32 48 | 10° 2'03 | 21° 12 | 26° 4 | 3° 42 | 13° 49 | 16° 27 | 27° 59 | 9° 18 | 10° 59 | 20° 13 | 21° 33 | 20° 1 | 9° 59 | 1° 15 | S 30 | |
| S 31 | 12 36 45 | 11 [♁] Y 1'39 | 3 [♁] Y36 | 27 [♁] Y42 | 4 [♁] Ω56 | 14 [♁] Ω14 | 16 [♁] X27 | 28 [♁] 0 | 9 [♁] Ω19 | 10 [♁] Ω59 | 20 [♁] Y15 | 21 [♁] Ω27 | 19 [♁] Ω57 | 10 [♁] Ω 5 | 1 [♁] Ω17 | S 31 | |

Delta T = 18m41s

APRIL 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|------------------------|----------------------|---------------------|----------------------|---------------------|---------|-------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|------|-----|
| M 1 | 12 40 41 | 12 [♁] Y 1'13 | 16 [♁] Y13 | 29 [♁] Y15 | 6 [♁] Ω10 | 14 [♁] Ω40 | 16° R27 | 28 [♁] 0 | 9 [♁] Ω20 | 10 [♁] R58 | 20 [♁] Y16 | 21° R 19 | 19 [♁] Ω54 | 10 [♁] Ω12 | 1 [♁] Ω19 | M 1 | |
| T 2 | 12 44 38 | 13° 0'44 | 29° 5 | 0 [♁] Ω43 | 7° 24 | 15° 6 | 16° X27 | 28° 1 | 9° 20 | 10 [♁] Ω57 | 20° 18 | 21 [♁] Ω 9 | 19° 51 | 10° 19 | 1° 21 | T 2 | |
| W 3 | 12 48 34 | 14° 0'14 | 12 [♁] Ω11 | 2° 6 | 8° 37 | 15° 32 | 16° 27 | 28° 1 | 9° 21 | 10° 57 | 20° 19 | 21° 0 | 19° 48 | 10° 25 | 1° 23 | W 3 | |
| T 4 | 12 52 31 | 14° 59'42 | 25° 30 | 3° 23 | 9° 51 | 15° 58 | 16° 26 | 28° 1 | 9° 21 | 10° 56 | 20° 21 | 20° 51 | 19° 45 | 10° 32 | 1° 25 | T 4 | |
| F 5 | 12 56 27 | 15° 59'08 | 9 [♁] II 0 | 4° 35 | 11° 4 | 16° 24 | 16° 26 | 28° 2 | 9° 22 | 10° 56 | 20° 22 | 20° 44 | 19° 42 | 10° 39 | 1° 27 | F 5 | |
| S 6 | 13 0 24 | 16° 58'31 | 22° 40 | 5° 40 | 12° 18 | 16° 51 | 16° 25 | 28° R 2 | 9° 22 | 10° 55 | 20° 23 | 20° 39 | 19° 38 | 10° 45 | 1° 30 | S 6 | |
| S 7 | 13 4 20 | 17° 57'52 | 6 [♁] Ω31 | 6° 39 | 13° 32 | 17° 18 | 16° 24 | 28° 1 | 9° 22 | 10° 55 | 20° 25 | 20° 36 | 19° 35 | 10° 52 | 1° 32 | S 7 | |
| M 8 | 13 8 17 | 18° 57'11 | 20° 30 | 7° 31 | 14° 45 | 17° 45 | 16° 23 | 28° 1 | 9° 23 | 10° 54 | 20° 26 | 20° D36 | 19° 32 | 10° 59 | 1° 34 | M 8 | |
| T 9 | 13 12 14 | 19° 56'28 | 4 [♁] Ω37 | 8° 16 | 15° 58 | 18° 12 | 16° 21 | 28° 1 | 9° 23 | 10° 54 | 20° 28 | 20° 36 | 19° 29 | 11° 5 | 1° 37 | T 9 | |
| W 10 | 13 16 10 | 20° 55'42 | 18° 53 | 8° 54 | 17° 12 | 18° 39 | 16° 20 | 28° 1 | 9° 23 | 10° 53 | 20° 29 | 20° R37 | 19° 26 | 11° 12 | 1° 39 | W 10 | |
| T 11 | 13 20 7 | 21° 54'53 | 3 [♁] II 13 | 9° 26 | 18° 25 | 19° 7 | 16° 18 | 28° 0 | 9° 23 | 10° 53 | 20° 31 | 20° 36 | 19° 22 | 11° 18 | 1° 42 | T 11 | |
| F 12 | 13 24 3 | 22° 54'03 | 17° 37 | 9° 49 | 19° 38 | 19° 35 | 16° 16 | 28° 0 | 9° 23 | 10° 53 | 20° 32 | 20° 34 | 19° 19 | 11° 25 | 1° 45 | F 12 | |
| S 13 | 13 28 0 | 23° 53'10 | 1 [♁] Ω59 | 10° 6 | 20° 51 | 20° 3 | 16° 14 | 27° 59 | 9° R23 | 10° 53 | 20° 34 | 20° 28 | 19° 16 | 11° 32 | 1° 48 | S 13 | |
| S 14 | 13 31 56 | 24° 52'15 | 16° 14 | 10° 16 | 22° 5 | 20° 31 | 16° 12 | 27° 58 | 9° 23 | 10° 52 | 20° 35 | 20° 20 | 19° 13 | 11° 38 | 1° 50 | S 14 | |
| M 15 | 13 35 53 | 25° 51'18 | 0 [♁] II 17 | 10° R19 | 23° 18 | 20° 59 | 16° 9 | 27° 57 | 9° 23 | 10° 52 | 20° 37 | 20° 10 | 19° 10 | 11° 45 | 1° 53 | M 15 | |
| T 16 | 13 39 49 | 26° 50'20 | 14° 2 | 10° 15 | 24° 31 | 21° 28 | 16° 6 | 27° 56 | 9° 23 | 10° 52 | 20° 38 | 19° 59 | 19° 7 | 11° 52 | 1° 56 | T 16 | |
| W 17 | 13 43 46 | 27° 49'19 | 27° 27 | 10° 4 | 25° 44 | 21° 56 | 16° 4 | 27° 55 | 9° 23 | 10° 52 | 20° 39 | 19° 48 | 19° 3 | 11° 58 | 1° 59 | W 17 | |
| T 18 | 13 47 43 | 28° 48'16 | 10 [♁] X30 | 9° 48 | 26° 57 | 22° 25 | 16° 1 | 27° 54 | 9° 22 | 10° 52 | 20° 41 | 19° 39 | 19° 0 | 12° 5 | 2° 2 | T 18 | |
| F 19 | 13 51 39 | 29° 47'12 | 23° 11 | 9° 26 | 28° 10 | 22° 54 | 15° 57 | 27° 53 | 9° 22 | 10° 52 | 20° 42 | 19° 31 | 18° 57 | 12° 12 | 2° 5 | F 19 | |
| S 20 | 13 55 36 | 0 [♁] Ω46'06 | 5 [♁] Ω33 | 8° 58 | 29° 22 | 23° 23 | 15° 54 | 27° 52 | 9° 22 | 10° 52 | 20° 44 | 19° 26 | 18° 54 | 12° 18 | 2° 9 | S 20 | |
| S 21 | 13 59 32 | 1° 44'58 | 17° 39 | 8° 26 | 0 [♁] II 35 | 23° 52 | 15° 51 | 27° 50 | 9° 21 | 10° D52 | 20° 45 | 19° 23 | 18° 51 | 12° 25 | 2° 12 | S 21 | |
| M 22 | 14 3 29 | 2° 43'49 | 29° 33 | 7° 51 | 1° 48 | 24° 21 | 15° 47 | 27° 49 | 9° 21 | 10° 52 | 20° 47 | 19° D22 | 18° 48 | 12° 32 | 2° 15 | M 22 | |
| T 23 | 14 7 25 | 3° 42'38 | 11 [♁] Ω22 | 7° 12 | 3° 1 | 24° 51 | 15° 43 | 27° 47 | 9° 20 | 10° 52 | 20° 48 | 19° 22 | 18° 44 | 12° 38 | 2° 19 | T 23 | |
| W 24 | 14 11 22 | 4° 41'25 | 23° 10 | 6° 31 | 4° 13 | 25° 21 | 15° 39 | 27° 45 | 9° 20 | 10° 52 | 20° 49 | 19° R22 | 18° 41 | 12° 45 | 2° 22 | W 24 | |
| T 25 | 14 15 18 | 5° 40'10 | 5 ^{♁</} | | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2576
geocentric

MAY 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ | ♅ | ♆ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|------|------|---|---|-----|
| W 1 | 14 38 58 | 11♃32'06 | 21♃34 | 1♃R44 | 12♂40 | 28♁52 | 15°R 6 | 27°R31 | 9°R15 | 10♂53 | 20♃59 | 18°R29 | 18♂19 | 13♁31 | 2♁48 | W 1 | | | |
| T 2 | 14 42 54 | 12°30'39 | 5♂18 | 1♃12 | 13°52 | 29°22 | 15♁ 1 | 27♁29 | 9♃14 | 10°54 | 21° 1 | 18♂17 | 18°16 | 13°38 | 2°52 | T 2 | | | |
| F 3 | 14 46 51 | 13°29'10 | 19°13 | 0°43 | 15° 5 | 29°53 | 14°55 | 27°26 | 9°13 | 10°54 | 21° 2 | 18° 7 | 18°13 | 13°45 | 2°56 | F 3 | | | |
| S 4 | 14 50 47 | 14°27'39 | 3♁15 | 0°19 | 16°17 | 0♂24 | 14°50 | 27°23 | 9°12 | 10°55 | 21° 3 | 18° 0 | 18° 9 | 13°51 | 3° 0 | S 4 | | | |
| S 5 | 14 54 44 | 15°26'06 | 17°20 | 29♃59 | 17°29 | 0°55 | 14°44 | 27°21 | 9°11 | 10°55 | 21° 5 | 17°56 | 18° 6 | 13°58 | 3° 4 | S 5 | | | |
| M 6 | 14 58 41 | 16°24'30 | 1♂28 | 29°45 | 18°41 | 1°26 | 14°38 | 27°18 | 9° 9 | 10°56 | 21° 6 | 17°54 | 18° 3 | 14° 5 | 3° 8 | M 6 | | | |
| T 7 | 15 2 37 | 17°22'53 | 15°35 | 29°35 | 19°53 | 1°58 | 14°32 | 27°15 | 9° 8 | 10°56 | 21° 7 | 17°54 | 18° 0 | 14°11 | 3°12 | T 7 | | | |
| W 8 | 15 6 34 | 18°21'13 | 29°41 | 29°29 | 21° 4 | 2°29 | 14°26 | 27°12 | 9° 7 | 10°57 | 21° 9 | 17°54 | 17°57 | 14°18 | 3°16 | W 8 | | | |
| T 9 | 15 10 30 | 19°19'32 | 13♃45 | 29°D29 | 22°16 | 3° 0 | 14°20 | 27° 9 | 9° 6 | 10°57 | 21°10 | 17°52 | 17°53 | 14°25 | 3°21 | T 9 | | | |
| F 10 | 15 14 27 | 20°17'48 | 27°46 | 29°34 | 23°28 | 3°32 | 14°14 | 27° 6 | 9° 5 | 10°58 | 21°11 | 17°49 | 17°50 | 14°31 | 3°25 | F 10 | | | |
| S 11 | 15 18 23 | 21°16'02 | 11♁42 | 29°43 | 24°39 | 4° 4 | 14° 7 | 27° 3 | 9° 3 | 10°58 | 21°13 | 17°43 | 17°47 | 14°38 | 3°29 | S 11 | | | |
| S 12 | 15 22 20 | 22°14'15 | 25°31 | 29°57 | 25°51 | 4°35 | 14° 1 | 27° 0 | 9° 2 | 10°59 | 21°14 | 17°34 | 17°44 | 14°44 | 3°34 | S 12 | | | |
| M13 | 15 26 16 | 23°12'25 | 9♂ 9 | 0♃15 | 27° 2 | 5° 7 | 13°54 | 26°57 | 9° 0 | 11° 0 | 21°15 | 17°23 | 17°41 | 14°51 | 3°38 | M13 | | | |
| T 14 | 15 30 13 | 24°10'34 | 22°34 | 0°38 | 28°14 | 5°39 | 13°48 | 26°54 | 8°59 | 11° 1 | 21°16 | 17°10 | 17°38 | 14°58 | 3°42 | T 14 | | | |
| W15 | 15 34 9 | 25° 8'41 | 5♁43 | 1° 6 | 29°25 | 6°11 | 13°41 | 26°50 | 8°57 | 11° 1 | 21°18 | 16°58 | 17°34 | 15° 4 | 3°47 | W15 | | | |
| T 16 | 15 38 6 | 26° 6'47 | 18°35 | 1°37 | 0♁36 | 6°43 | 13°34 | 26°47 | 8°56 | 11° 2 | 21°19 | 16°47 | 17°31 | 15°11 | 3°51 | T 16 | | | |
| F 17 | 15 42 3 | 27° 4'51 | 1♃ 9 | 2°13 | 1°47 | 7°15 | 13°27 | 26°43 | 8°54 | 11° 3 | 21°20 | 16°37 | 17°28 | 15°18 | 3°56 | F 17 | | | |
| S 18 | 15 45 59 | 28° 2'54 | 13°26 | 2°52 | 2°58 | 7°48 | 13°20 | 26°40 | 8°53 | 11° 4 | 21°21 | 16°31 | 17°25 | 15°24 | 4° 1 | S 18 | | | |
| S 19 | 15 49 56 | 29° 0'55 | 25°30 | 3°35 | 4° 9 | 8°20 | 13°13 | 26°36 | 8°51 | 11° 5 | 21°22 | 16°27 | 17°22 | 15°31 | 4° 5 | S 19 | | | |
| M20 | 15 53 52 | 29°58'55 | 7♁24 | 4°22 | 5°20 | 8°53 | 13° 6 | 26°32 | 8°49 | 11° 6 | 21°24 | 16°25 | 17°19 | 15°38 | 4°10 | M20 | | | |
| T 21 | 15 57 49 | 0♂56'54 | 19°13 | 5°12 | 6°31 | 9°25 | 12°58 | 26°29 | 8°48 | 11° 7 | 21°25 | 16°D25 | 17°15 | 15°44 | 4°15 | T 21 | | | |
| W22 | 16 1 45 | 1°54'51 | 1♃ 2 | 6° 5 | 7°42 | 9°58 | 12°51 | 26°25 | 8°46 | 11° 8 | 21°26 | 16°R25 | 17°12 | 15°51 | 4°20 | W22 | | | |
| T 23 | 16 5 42 | 2°52'47 | 12°57 | 7° 2 | 8°53 | 10°30 | 12°44 | 26°21 | 8°44 | 11° 9 | 21°27 | 16°25 | 17° 9 | 15°58 | 4°24 | T 23 | | | |
| F 24 | 16 9 38 | 3°50'42 | 25° 2 | 8° 2 | 10° 3 | 11° 3 | 12°36 | 26°17 | 8°42 | 11°10 | 21°28 | 16°23 | 17° 6 | 16° 4 | 4°29 | F 24 | | | |
| S 25 | 16 13 35 | 4°48'35 | 7♃23 | 9° 5 | 11°14 | 11°36 | 12°29 | 26°13 | 8°40 | 11°11 | 21°29 | 16°19 | 17° 3 | 16°11 | 4°34 | S 25 | | | |
| S 26 | 16 17 32 | 5°46'27 | 20° 3 | 10°11 | 12°24 | 12° 9 | 12°21 | 26° 9 | 8°38 | 11°12 | 21°30 | 16°12 | 16°59 | 16°17 | 4°39 | S 26 | | | |
| M27 | 16 21 28 | 6°44'18 | 3♃ 6 | 11°19 | 13°35 | 12°42 | 12°14 | 26° 5 | 8°37 | 11°13 | 21°32 | 16° 3 | 16°56 | 16°24 | 4°44 | M27 | | | |
| T 28 | 16 25 25 | 7°42'08 | 16°32 | 12°31 | 14°45 | 13°15 | 12° 6 | 26° 1 | 8°35 | 11°14 | 21°33 | 15°53 | 16°53 | 16°31 | 4°49 | T 28 | | | |
| W29 | 16 29 21 | 8°39'57 | 0♂20 | 13°45 | 15°55 | 13°48 | 11°58 | 25°57 | 8°33 | 11°16 | 21°34 | 15°42 | 16°50 | 16°37 | 4°54 | W29 | | | |
| T 30 | 16 33 18 | 9°37'44 | 14°27 | 15° 2 | 17° 5 | 14°22 | 11°51 | 25°53 | 8°31 | 11°17 | 21°35 | 15°32 | 16°47 | 16°44 | 4°59 | T 30 | | | |
| F 31 | 16 37 14 | 10♂35'31 | 28♂47 | 16♃21 | 18♁15 | 14♂55 | 11♁43 | 25♁49 | 8♃29 | 11♂18 | 21♃36 | 15♂23 | 16♂44 | 16♁51 | 5♁ 4 | F 31 | | | |

Delta T = 18m41s

JUNE 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ | ♅ | ♆ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|------|------|---|---|-----|
| S 1 | 16 41 11 | 11♂33'15 | 13♁14 | 17♃43 | 19♁25 | 15♂28 | 11°R35 | 25°R44 | 8°R26 | 11♂19 | 21♃37 | 15°R17 | 16♂40 | 16♁57 | 5♁ 9 | S 1 | | | |
| S 2 | 16 45 8 | 12°30'59 | 27°43 | 19° 7 | 20°35 | 16° 2 | 11♁28 | 25♁40 | 8♃24 | 11°21 | 21°38 | 15♂14 | 16°37 | 17° 4 | 5°14 | S 2 | | | |
| M 3 | 16 49 4 | 13°28'40 | 12♂ 8 | 20°34 | 21°45 | 16°35 | 11°20 | 25°36 | 8°22 | 11°22 | 21°39 | 15°D13 | 16°34 | 17°11 | 5°19 | M 3 | | | |
| T 4 | 16 53 1 | 14°26'20 | 26°27 | 22° 3 | 22°54 | 17° 9 | 11°13 | 25°32 | 8°20 | 11°23 | 21°40 | 15°13 | 16°31 | 17°17 | 5°24 | T 4 | | | |
| W 5 | 16 56 57 | 15°23'59 | 10♃36 | 23°35 | 24° 4 | 17°43 | 11° 5 | 25°27 | 8°18 | 11°25 | 21°41 | 15°R14 | 16°28 | 17°24 | 5°30 | W 5 | | | |
| T 6 | 17 0 54 | 16°21'36 | 24°36 | 25° 9 | 25°13 | 18°17 | 10°57 | 25°23 | 8°16 | 11°26 | 21°42 | 15°13 | 16°25 | 17°31 | 5°35 | T 6 | | | |
| F 7 | 17 4 50 | 17°19'12 | 8♁24 | 26°46 | 26°23 | 18°50 | 10°50 | 25°19 | 8°13 | 11°28 | 21°43 | 15°11 | 16°21 | 17°37 | 5°40 | F 7 | | | |
| S 8 | 17 8 47 | 18°16'46 | 22° 2 | 28°25 | 27°32 | 19°24 | 10°42 | 25°14 | 8°11 | 11°29 | 21°43 | 15° 7 | 16°18 | 17°44 | 5°45 | S 8 | | | |
| S 9 | 17 12 43 | 19°14'19 | 5♂29 | 0♂ 6 | 28°41 | 19°58 | 10°35 | 25°10 | 8° 9 | 11°31 | 21°44 | 15° 1 | 16°15 | 17°50 | 5°50 | S 9 | | | |
| M10 | 17 16 40 | 20°11'51 | 18°43 | 1°50 | 29°50 | 20°32 | 10°27 | 25° 5 | 8° 7 | 11°32 | 21°45 | 14°53 | 16°12 | 17°57 | 5°56 | M10 | | | |
| T 11 | 17 20 37 | 21° 9'21 | 1♁45 | 3°36 | 0♂59 | 21° 6 | 10°20 | 25° 1 | 8° 4 | 11°34 | 21°46 | 14°44 | 16° 9 | 18° 4 | 6° 1 | T 11 | | | |
| W12 | 17 24 33 | 22° 6'51 | 14°33 | 5°25 | 2° 7 | 21°40 | 10°12 | 24°56 | 8° 2 | 11°35 | 21°47 | 14°34 | 16° 5 | 18°10 | 6° 6 | W12 | | | |
| T 13 | 17 28 30 | 23° 4'19 | 27° 8 | 7°16 | 3°16 | 22°15 | 10° 5 | 24°52 | 8° 0 | 11°37 | 21°48 | 14°26 | 16° 2 | 18°17 | 6°12 | T 13 | | | |
| F 14 | 17 32 26 | 24° 1'47 | 9♃29 | 9° 9 | 4°24 | 22°49 | 9°58 | 24°48 | 7°57 | 11°38 | 21°48 | 14°19 | 15°59 | 18°24 | 6°17 | F 14 | | | |
| S 15 | 17 36 23 | 24°59'13 | 21°38 | 11° 5 | 5°33 | 23°23 | 9°51 | 24°43 | 7°55 | 11°40 | 21°49 | 14°15 | 15°56 | 18°30 | 6°22 | S 15 | | | |
| S 16 | 17 40 19 | 25°56'39 | 3♁37 | 13° 3 | 6°41 | 23°58 | 9°44 | 24°39 | 7°53 | 11°42 | 21°50 | 14°12 | 15°53 | 18°37 | 6°28 | S 16 | | | |
| M17 | 17 44 16 | 26°54'04 | 15°29 | 15° 3 | 7°49 | 24°32 | 9°36 | 24°34 | 7°50 | 11°43 | 21°51 | 14°D11 | 15°50 | 18°44 | 6°33 | M17 | | | |
| T 18 | 17 48 12 | 27°51'29 | 27°17 | 17° 5 | 8°57 | 25° 7 | 9°30 | 24°30 | 7°48 | 11°45 | 21°51 | 14°12 | 15°46 | 18°50 | 6°39 | T 18 | | | |
| W19 | 17 52 9 | 28°48'53 | 9♃ 5 | 19° 8 | 10° 5 | 25°41 | 9°23 | 24°25 | 7°46 | 11°47 | 21°52 | 14°13 | 15°43 | 18°57 | 6°44 | W19 | | | |
| T 20 | 17 56 6 | 29°46'16 | 20°59 | 21°14 | 11°13 | 26°16 | 9°16 | 24°21 | 7°43 | 11°48 | 21°53 | 14°15 | 15°40 | 19° 4 | 6°49 | T 20 | | | |
| F 21 | 18 0 2 | 0♁43'39 | 3♃ 4 | 23°21 | 12°20 | 26°50 | 9° 9 | 24°17 | 7°41 | 11°50 | 21°53 | 14°R15 | 15°37 | 19°10 | 6°55 | F 21 | | | |
| S 22 | 18 3 59 | 1°41'01 | 15°25 | 25°30 | 13°27 | 27°25 | 9° 3 | 24°12 | 7°38 | 11°52 | 21°54 | 14°14 | 15°34 | 19°17 | 7° 0 | S 22 | | | |
| S 23 | 18 7 55 | 2°38'23 | 28° 6 | 27°40 | 14°35 | 28° 0 | 8°56 | 24° 8 | 7°36 | 11°54 | 21°55 | 14°11 | 15°31 | 19°24 | 7° 6 | S 23 | | | |
| M24 | 18 11 52 | 3°35'44 | 11♃11 | 29°51 | 15°42 | 28°35 | 8°50 | 24° 3 | 7°33 | 11°56 | 21°55 | 14° 7 | 15°27 | 19°30 | 7°11 | M24 | | | |
| T 25 | 18 15 48 | 4°33'05 | 24°42 | 2♁ 2 | 16°49 | 29°10 | 8°43 | 23°59 | 7°31 | 11°57 | 21°56 | 14° 2 | 15°24 | 19°37 | 7°17 | T 25 | | | |
| W26 | 18 19 45 | 5°30'26 | 8♂38 | 4°14 | 17°56 | 29°45 | 8°37 | 23°55 | 7°29 | 11°59 | 21°56 | 13°56 | 15°21 | 19°43 | 7°22 | W26 | | | |
| T 27 | 18 23 41 | 6°27'47 | 22°58 | 6°26 | 19° 2 | 0♂20 | 8°31 | 23°51 | 7°26 | 12° 1 | 21°57 | 13°50 | 15°18 | 19°50 | 7°27 | T 27 | | | |
| F 28 | 18 27 38 | 7°25'07 | 7♁35 | 8°38 | 20° 9 | 0°55 | 8°25 | 23°46 | 7°24 | 12° 3 | 21°58 | 13°45 | 15°15 | 19°57 | 7°33 | F 28 | | | |
| S 29 | 18 31 35 | 8°22'26 | 22°24 | 10°49 | 21°15 | 1°30 | 8°19 | 23°42 | 7°21 | 12° 5 | 21°58 | 13°42 | 15°11 | 20° 3 | 7°38 | S 29 | | | |
| S 30 | 18 35 31 | 9♁19'45 | 7♂16 | 13♁ 0 | 22♂21 | 2♃ 5 | 8♁14 | 23♁38 | 7♃19 | 12♂ 7 | 21♃58 | 13°D41 | 15♂ 8 | 20♁10 | 7♁44 | S 30 | | | |

Delta T = 18m42s

ASTRODIENST EPHEMERIS for the year 2576
geocentric

JULY 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | ♅ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|------|-----|
| M 1 | 18 39 28 | 10♄17'03 | 22♂ 4 | 15♄10 | 23♂27 | 2♃40 | 8°R 8 | 23°R34 | 7°R16 | 12♂ 9 | 21♂59 | 13♂41 | 15♂ 5 | 20♄17 | 7♄49 | M 1 | |
| T 2 | 18 43 24 | 11°14'21 | 6♃42 | 17°18 | 24°33 | 3°16 | 8♂ 3 | 23♂30 | 7♄14 | 12°11 | 21°59 | 13°42 | 15° 2 | 20°23 | 7°55 | T 2 | |
| W 3 | 18 47 21 | 12°11'37 | 21° 5 | 19°25 | 25°38 | 3°51 | 7°58 | 23°25 | 7°11 | 12°13 | 22° 0 | 13°43 | 14°59 | 20°30 | 8° 0 | W 3 | |
| T 4 | 18 51 17 | 13° 8'54 | 5♄10 | 21°31 | 26°44 | 4°26 | 7°52 | 23°21 | 7° 9 | 12°15 | 22° 0 | 13°44 | 14°56 | 20°37 | 8° 6 | T 4 | |
| F 5 | 18 55 14 | 14° 6'09 | 18°58 | 23°35 | 27°49 | 5° 2 | 7°47 | 23°17 | 7° 7 | 12°17 | 22° 1 | 13°R44 | 14°52 | 20°43 | 8°11 | F 5 | |
| S 6 | 18 59 10 | 15° 3'24 | 2♃27 | 25°38 | 28°54 | 5°37 | 7°43 | 23°13 | 7° 4 | 12°19 | 22° 1 | 13°43 | 14°49 | 20°50 | 8°17 | S 6 | |
| S 7 | 19 3 7 | 16° 0'38 | 15°39 | 27°38 | 29°59 | 6°13 | 7°38 | 23° 9 | 7° 2 | 12°21 | 22° 1 | 13°41 | 14°46 | 20°57 | 8°22 | S 7 | |
| M 8 | 19 7 4 | 16°57'52 | 28°36 | 29°37 | 1♃ 3 | 6°48 | 7°33 | 23° 6 | 6°59 | 12°23 | 22° 1 | 13°38 | 14°43 | 21° 3 | 8°27 | M 8 | |
| T 9 | 19 11 0 | 17°55'06 | 11♂19 | 1♂34 | 2° 7 | 7°24 | 7°29 | 23° 2 | 6°57 | 12°25 | 22° 2 | 13°34 | 14°40 | 21°10 | 8°33 | T 9 | |
| W10 | 19 14 57 | 18°52'19 | 23°48 | 3°29 | 3°12 | 8° 0 | 7°25 | 22°58 | 6°54 | 12°27 | 22° 2 | 13°30 | 14°37 | 21°16 | 8°38 | W10 | |
| T 11 | 19 18 53 | 19°49'32 | 6♄ 6 | 5°21 | 4°15 | 8°35 | 7°21 | 22°54 | 6°52 | 12°29 | 22° 2 | 13°26 | 14°33 | 21°23 | 8°44 | T 11 | |
| F 12 | 19 22 50 | 20°46'45 | 18°14 | 7°12 | 5°19 | 9°11 | 7°17 | 22°51 | 6°50 | 12°31 | 22° 2 | 13°23 | 14°30 | 21°30 | 8°49 | F 12 | |
| S 13 | 19 26 46 | 21°43'58 | 0♄13 | 9° 1 | 6°22 | 9°47 | 7°13 | 22°47 | 6°47 | 12°33 | 22° 3 | 13°22 | 14°27 | 21°36 | 8°54 | S 13 | |
| S 14 | 19 30 43 | 22°41'11 | 12° 6 | 10°47 | 7°25 | 10°23 | 7°10 | 22°43 | 6°45 | 12°35 | 22° 3 | 13°D21 | 14°24 | 21°43 | 9° 0 | S 14 | |
| M15 | 19 34 39 | 23°38'23 | 23°55 | 12°32 | 8°28 | 10°59 | 7° 6 | 22°40 | 6°43 | 12°37 | 22° 3 | 13°21 | 14°21 | 21°50 | 9° 5 | M15 | |
| T 16 | 19 38 36 | 24°35'36 | 5♂42 | 14°14 | 9°31 | 11°35 | 7° 3 | 22°37 | 6°40 | 12°40 | 22° 3 | 13°22 | 14°17 | 21°56 | 9°11 | T 16 | |
| W17 | 19 42 33 | 25°32'49 | 17°31 | 15°55 | 10°33 | 12°11 | 7° 0 | 22°33 | 6°38 | 12°42 | 22° 3 | 13°24 | 14°14 | 22° 3 | 9°16 | W17 | |
| T 18 | 19 46 29 | 26°30'03 | 29°27 | 17°33 | 11°35 | 12°47 | 6°57 | 22°30 | 6°36 | 12°44 | 22° 3 | 13°25 | 14°11 | 22°10 | 9°21 | T 18 | |
| F 19 | 19 50 26 | 27°27'17 | 11♂32 | 19° 9 | 12°37 | 13°23 | 6°54 | 22°27 | 6°34 | 12°46 | 22° 3 | 13°26 | 14° 8 | 22°16 | 9°27 | F 19 | |
| S 20 | 19 54 22 | 28°24'31 | 23°52 | 20°43 | 13°38 | 13°59 | 6°52 | 22°23 | 6°31 | 12°48 | 22° 3 | 13°R27 | 14° 5 | 22°23 | 9°32 | S 20 | |
| S 21 | 19 58 19 | 29°21'45 | 6♄31 | 22°16 | 14°39 | 14°35 | 6°49 | 22°20 | 6°29 | 12°50 | 22°R 3 | 13°27 | 14° 2 | 22°30 | 9°37 | S 21 | |
| M22 | 20 2 15 | 0♂19'00 | 19°32 | 23°46 | 15°40 | 15°12 | 6°47 | 22°17 | 6°27 | 12°52 | 22° 3 | 13°26 | 13°58 | 22°36 | 9°42 | M22 | |
| T 23 | 20 6 12 | 1°16'16 | 2♃59 | 25°13 | 16°41 | 15°48 | 6°45 | 22°14 | 6°25 | 12°55 | 22° 3 | 13°25 | 13°55 | 22°43 | 9°48 | T 23 | |
| W24 | 20 10 8 | 2°13'32 | 16°53 | 26°39 | 17°41 | 16°24 | 6°44 | 22°12 | 6°23 | 12°57 | 22° 3 | 13°24 | 13°52 | 22°50 | 9°53 | W24 | |
| T 25 | 20 14 5 | 3°10'49 | 1♄13 | 28° 3 | 18°41 | 17° 1 | 6°42 | 22° 9 | 6°21 | 12°59 | 22° 3 | 13°23 | 13°49 | 22°56 | 9°58 | T 25 | |
| F 26 | 20 18 2 | 4° 8'07 | 15°55 | 29°24 | 19°40 | 17°37 | 6°40 | 22° 6 | 6°19 | 13° 1 | 22° 3 | 13°22 | 13°46 | 23° 3 | 10° 3 | F 26 | |
| S 27 | 20 21 58 | 5° 5'25 | 0♂54 | 0♃43 | 20°39 | 18°14 | 6°39 | 22° 3 | 6°17 | 13° 3 | 22° 3 | 13°21 | 13°43 | 23° 9 | 10° 8 | S 27 | |
| S 28 | 20 25 55 | 6° 2'43 | 16° 1 | 2° 0 | 21°38 | 18°50 | 6°38 | 22° 1 | 6°15 | 13° 6 | 22° 3 | 13°D21 | 13°39 | 23°16 | 10°13 | S 28 | |
| M29 | 20 29 51 | 7° 0'01 | 1♃ 7 | 3°15 | 22°36 | 19°27 | 6°37 | 21°58 | 6°13 | 13° 8 | 22° 3 | 13°21 | 13°36 | 23°23 | 10°19 | M29 | |
| T 30 | 20 33 48 | 7°57'20 | 16° 4 | 4°27 | 23°34 | 20° 4 | 6°36 | 21°56 | 6°11 | 13°10 | 22° 3 | 13°21 | 13°33 | 23°29 | 10°24 | T 30 | |
| W31 | 20 37 44 | 8♂54'39 | 0♄44 | 5♃37 | 24♃32 | 20♃40 | 6♂36 | 21♂54 | 6♄ 9 | 13♂12 | 22♂ 2 | 13♂22 | 13♂30 | 23♂36 | 10♄29 | W31 | |

Delta T = 18m42s

AUGUST 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | ♅ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|------|-----|
| T 1 | 20 41 41 | 9♂51'59 | 15♄ 2 | 6♃44 | 25♃29 | 21♃17 | 6°R36 | 21°R51 | 6°R 7 | 13♂15 | 22°R 2 | 13♂22 | 13♂27 | 23♂43 | 10♄34 | T 1 | |
| F 2 | 20 45 37 | 10°49'18 | 28°57 | 7°48 | 26°25 | 21°54 | 6°D35 | 21♂49 | 6♄ 5 | 13°17 | 22♂ 2 | 13°22 | 13°23 | 23°49 | 10°39 | F 2 | |
| S 3 | 20 49 34 | 11°46'38 | 12♂27 | 8°50 | 27°21 | 22°31 | 6♂35 | 21°47 | 6° 3 | 13°19 | 22° 2 | 13°R22 | 13°20 | 23°56 | 10°44 | S 3 | |
| S 4 | 20 53 31 | 12°43'58 | 25°35 | 9°49 | 28°17 | 23° 8 | 6°36 | 21°45 | 6° 1 | 13°21 | 22° 1 | 13°22 | 13°17 | 24° 3 | 10°49 | S 4 | |
| M 5 | 20 57 27 | 13°41'19 | 8♂22 | 10°45 | 29°12 | 23°45 | 6°36 | 21°43 | 5°59 | 13°23 | 22° 1 | 13°D22 | 13°14 | 24° 9 | 10°53 | M 5 | |
| T 6 | 21 1 24 | 14°38'40 | 20°52 | 11°38 | 0♄ 7 | 24°22 | 6°37 | 21°41 | 5°58 | 13°26 | 22° 1 | 13°23 | 13°11 | 24°16 | 10°58 | T 6 | |
| W 7 | 21 5 20 | 15°36'02 | 3♄ 9 | 12°28 | 1° 1 | 24°59 | 6°37 | 21°40 | 5°56 | 13°28 | 22° 1 | 13°23 | 13° 8 | 24°23 | 11° 3 | W 7 | |
| T 8 | 21 9 17 | 16°33'24 | 15°14 | 13°14 | 1°55 | 25°36 | 6°38 | 21°38 | 5°54 | 13°30 | 22° 0 | 13°23 | 13° 4 | 24°29 | 11° 8 | T 8 | |
| F 9 | 21 13 13 | 17°30'47 | 27°11 | 13°57 | 2°48 | 26°13 | 6°39 | 21°36 | 5°53 | 13°32 | 22° 0 | 13°23 | 13° 1 | 24°36 | 11°13 | F 9 | |
| S 10 | 21 17 10 | 18°28'10 | 9♄ 3 | 14°36 | 3°40 | 26°50 | 6°41 | 21°35 | 5°51 | 13°35 | 21°59 | 13°R24 | 12°58 | 24°43 | 11°17 | S 10 | |
| S 11 | 21 21 6 | 19°25'35 | 20°51 | 15°12 | 4°32 | 27°27 | 6°42 | 21°34 | 5°50 | 13°37 | 21°59 | 13°23 | 12°55 | 24°49 | 11°22 | S 11 | |
| M12 | 21 25 3 | 20°23'00 | 2♃39 | 15°43 | 5°23 | 28° 5 | 6°44 | 21°32 | 5°48 | 13°39 | 21°59 | 13°23 | 12°52 | 24°56 | 11°27 | M12 | |
| T 13 | 21 29 0 | 21°20'26 | 14°29 | 16°10 | 6°14 | 28°42 | 6°46 | 21°31 | 5°47 | 13°41 | 21°58 | 13°22 | 12°49 | 25° 2 | 11°31 | T 13 | |
| W14 | 21 32 56 | 22°17'53 | 26°22 | 16°33 | 7° 3 | 29°19 | 6°48 | 21°30 | 5°45 | 13°43 | 21°58 | 13°21 | 12°45 | 25° 9 | 11°36 | W14 | |
| T 15 | 21 36 53 | 23°15'21 | 8♂22 | 16°51 | 7°52 | 29°57 | 6°50 | 21°29 | 5°44 | 13°46 | 21°57 | 13°20 | 12°42 | 25°16 | 11°41 | T 15 | |
| F 16 | 21 40 49 | 24°12'50 | 20°31 | 17° 4 | 8°41 | 0♄34 | 6°52 | 21°28 | 5°42 | 13°48 | 21°57 | 13°19 | 12°39 | 25°22 | 11°45 | F 16 | |
| S 17 | 21 44 46 | 25°10'21 | 2♄54 | 17°13 | 9°28 | 1°12 | 6°55 | 21°27 | 5°41 | 13°50 | 21°56 | 13°17 | 12°36 | 25°29 | 11°49 | S 17 | |
| S 18 | 21 48 42 | 26° 7'53 | 15°32 | 17°R16 | 10°15 | 1°49 | 6°57 | 21°27 | 5°40 | 13°52 | 21°55 | 13°17 | 12°33 | 25°36 | 11°54 | S 18 | |
| M19 | 21 52 39 | 27° 5'26 | 28°30 | 17°14 | 11° 1 | 2°27 | 7° 0 | 21°26 | 5°39 | 13°54 | 21°55 | 13°D16 | 12°29 | 25°42 | 11°58 | M19 | |
| T 20 | 21 56 35 | 28° 3'00 | 11♂50 | 17° 6 | 11°46 | 3° 4 | 7° 3 | 21°25 | 5°37 | 13°57 | 21°54 | 13°17 | 12°26 | 25°49 | 12° 3 | T 20 | |
| W21 | 22 0 32 | 29° 0'36 | 25°35 | 16°53 | 12°31 | 3°42 | 7° 6 | 21°25 | 5°36 | 13°59 | 21°54 | 13°18 | 12°23 | 25°56 | 12° 7 | W21 | |
| T 22 | 22 4 29 | 29°58'14 | 9♄45 | 16°35 | 13°14 | 4°20 | 7°10 | 21°25 | 5°35 | 14° 1 | 21°53 | 13°19 | 12°20 | 26° 2 | 12°11 | T 22 | |
| F 23 | 22 8 25 | 0♃55'53 | 24°19 | 16°11 | 13°57 | 4°58 | 7°13 | 21°25 | 5°34 | 14° 3 | 21°52 | 13°20 | 12°17 | 26° 9 | 12°15 | F 23 | |
| S 24 | 22 12 22 | 1°53'33 | 9♂13 | 15°42 | 14°38 | 5°36 | 7°17 | 21°24 | 5°33 | 14° 5 | 21°52 | 13°R20 | 12°14 | 26°16 | 12°19 | S 24 | |
| S 25 | 22 16 18 | 2°51'14 | 24°20 | 15° 8 | 15°19 | 6°13 | 7°21 | 21°D24 | 5°32 | 14° 7 | 21°51 | 13°20 | 12°10 | 26°22 | 12°24 | S 25 | |
| M26 | 22 20 15 | 3°48'57 | 9♃32 | 14°29 | 15°58 | 6°51 | 7°25 | 21°24 | 5°31 | 14° 9 | 21°50 | 13°19 | 12° 7 | 26°29 | 12°28 | M26 | |
| T 27 | 22 24 11 | 4°46'41 | 24°39 | 13°45 | 16°36 | 7°29 | 7°29 | 21°25 | 5°30 | 14°12 | 21°50 | 13°17 | 12° 4 | 26°36 | 12°32 | T 27 | |
| W28 | 22 28 8 | 5°44'26 | 9♄31 | 12°59 | 17°14 | 8° 7 | 7°34 | 21°25 | 5°30 | 14°14 | 21°49 | 13°14 | 12° 1 | 26°42 | 12°36 | W28 | |
| T 29 | 22 32 4 | 6°42'12 | 24° 2 | 12° 9 | 17°49 | 8°46 | 7°38 | 21°25 | 5°29 | 14°16 | 21°48 | 13°11 | 11°58 | 26°49 | 12°39 | T 29 | |
| F 30 | 22 36 1 | 7°40'00 | 8♂ 7 | 11°17 | 18°24 | 9°24 | 7°43 | 21°26 | 5°28 | 14°18 | 21°47 | 13° 8 | 11°54 | 26°55 | 12°43 | F 30 | |
| S 31 | 22 39 58 | 8♃37'48 | 21♂44 | 10♃24 | 18♄58 | 10♄ 2 | 7♂48 | 21♂26 | 5♄27 | 14♂20 | 21♂47 | 13♂ 6 | 11♂51 | 27♂ 2 | 12♄47 | S 31 | |

Delta T = 18m42s

ASTRODIENST EPHEMERIS for the year 2576
geocentric

SEPTEMBER 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|-----|
| S 1 | 22 43 54 | 9♎35'38 | 4♌54 | 9°R31 | 19♊30 | 10♌40 | 7♌53 | 21♌27 | 5°R27 | 14♌22 | 21°R46 | 13°D 5 | 11♌48 | 27♌9 | 12♌51 | S 1 | |
| M 2 | 22 47 51 | 10°33'29 | 17°39 | 8♎39 | 20° 0 | 11°18 | 7°58 | 21°28 | 5♌26 | 14°24 | 21°Y45 | 13♌5 | 11°45 | 27°15 | 12°54 | M 2 | |
| T 3 | 22 51 47 | 11°31'21 | 0♌5 | 7°49 | 20°30 | 11°57 | 8° 4 | 21°28 | 5°26 | 14°26 | 21°44 | 13° 6 | 11°42 | 27°22 | 12°58 | T 3 | |
| W 4 | 22 55 44 | 12°29'14 | 12°15 | 7° 2 | 20°57 | 12°35 | 8° 9 | 21°29 | 5°25 | 14°28 | 21°43 | 13° 8 | 11°39 | 27°29 | 13° 2 | W 4 | |
| T 5 | 22 59 40 | 13°27'08 | 24°13 | 6°19 | 21°24 | 13°13 | 8°15 | 21°30 | 5°25 | 14°30 | 21°42 | 13°10 | 11°35 | 27°35 | 13° 5 | T 5 | |
| F 6 | 23 3 37 | 14°25'04 | 6♌4 | 5°41 | 21°48 | 13°52 | 8°21 | 21°32 | 5°24 | 14°32 | 21°41 | 13°11 | 11°32 | 27°42 | 13° 9 | F 6 | |
| S 7 | 23 7 33 | 15°23'01 | 17°52 | 5° 9 | 22°11 | 14°30 | 8°27 | 21°33 | 5°24 | 14°34 | 21°41 | 13°R11 | 11°29 | 27°49 | 13°12 | S 7 | |
| S 8 | 23 11 30 | 16°21'00 | 29°40 | 4°44 | 22°32 | 15° 9 | 8°33 | 21°34 | 5°24 | 14°36 | 21°40 | 13°10 | 11°26 | 27°55 | 13°15 | S 8 | |
| M 9 | 23 15 27 | 17°19'00 | 11♌30 | 4°27 | 22°51 | 15°48 | 8°39 | 21°35 | 5°23 | 14°38 | 21°39 | 13° 7 | 11°23 | 28° 2 | 13°19 | M 9 | |
| T 10 | 23 19 23 | 18°17'01 | 23°25 | 4°17 | 23° 9 | 16°26 | 8°45 | 21°37 | 5°23 | 14°40 | 21°38 | 13° 2 | 11°20 | 28° 9 | 13°22 | T 10 | |
| W 11 | 23 23 20 | 19°15'04 | 5♌26 | 4°D16 | 23°24 | 17° 5 | 8°52 | 21°39 | 5°23 | 14°42 | 21°37 | 12°56 | 11°16 | 28°15 | 13°25 | W 11 | |
| T 12 | 23 27 16 | 20°13'09 | 17°36 | 4°23 | 23°38 | 17°44 | 8°59 | 21°40 | 5°23 | 14°44 | 21°36 | 12°50 | 11°13 | 28°22 | 13°28 | T 12 | |
| F 13 | 23 31 13 | 21°11'15 | 29°56 | 4°39 | 23°49 | 18°23 | 9° 6 | 21°42 | 5°D23 | 14°46 | 21°35 | 12°43 | 11°10 | 28°29 | 13°31 | F 13 | |
| S 14 | 23 35 9 | 22° 9'24 | 12♌27 | 5° 4 | 23°58 | 19° 1 | 9°13 | 21°44 | 5°23 | 14°47 | 21°34 | 12°37 | 11° 7 | 28°35 | 13°34 | S 14 | |
| S 15 | 23 39 6 | 23° 7'34 | 25°11 | 5°37 | 24° 6 | 19°40 | 9°20 | 21°46 | 5°23 | 14°49 | 21°33 | 12°32 | 11° 4 | 28°42 | 13°37 | S 15 | |
| M 16 | 23 43 2 | 24° 5'46 | 8♌11 | 6°18 | 24°11 | 20°19 | 9°27 | 21°48 | 5°23 | 14°51 | 21°32 | 12°29 | 11° 0 | 28°49 | 13°40 | M 16 | |
| T 17 | 23 46 59 | 25° 4'01 | 21°28 | 7° 8 | 24°13 | 20°58 | 9°34 | 21°50 | 5°23 | 14°53 | 21°31 | 12°D28 | 10°57 | 28°55 | 13°42 | T 17 | |
| W 18 | 23 50 55 | 26° 2'17 | 5♌4 | 8° 5 | 24°R14 | 21°37 | 9°42 | 21°52 | 5°24 | 14°55 | 21°30 | 12°28 | 10°54 | 29° 2 | 13°45 | W 18 | |
| T 19 | 23 54 52 | 27° 0'36 | 19° 2 | 9° 9 | 24°12 | 22°16 | 9°49 | 21°55 | 5°24 | 14°56 | 21°29 | 12°29 | 10°51 | 29° 8 | 13°48 | T 19 | |
| F 20 | 23 58 49 | 27°58'56 | 3♌20 | 10°20 | 24° 8 | 22°56 | 9°57 | 21°57 | 5°24 | 14°58 | 21°28 | 12°30 | 10°48 | 29°15 | 13°50 | F 20 | |
| S 21 | 0 2 45 | 28°57'19 | 17°58 | 11°37 | 24° 1 | 23°35 | 10° 5 | 22° 0 | 5°25 | 15° 0 | 21°27 | 12°R30 | 10°45 | 29°22 | 13°53 | S 21 | |
| S 22 | 0 6 42 | 29°55'43 | 2♎51 | 13° 0 | 23°53 | 24°14 | 10°13 | 22° 2 | 5°25 | 15° 2 | 21°26 | 12°29 | 10°41 | 29°28 | 13°55 | S 22 | |
| M 23 | 0 10 38 | 0♌54'10 | 17°53 | 14°28 | 23°41 | 24°53 | 10°21 | 22° 5 | 5°25 | 15° 3 | 21°25 | 12°25 | 10°38 | 29°35 | 13°58 | M 23 | |
| T 24 | 0 14 35 | 1°52'38 | 2♌55 | 16° 0 | 23°28 | 25°33 | 10°30 | 22° 8 | 5°26 | 15° 5 | 21°24 | 12°19 | 10°35 | 29°42 | 14° 0 | T 24 | |
| W 25 | 0 18 31 | 2°51'08 | 17°47 | 17°36 | 23°12 | 26°12 | 10°38 | 22°11 | 5°27 | 15° 7 | 21°22 | 12°12 | 10°32 | 29°48 | 14° 2 | W 25 | |
| T 26 | 0 22 28 | 3°49'40 | 2♌21 | 19°15 | 22°53 | 26°52 | 10°47 | 22°14 | 5°27 | 15° 8 | 21°21 | 12° 4 | 10°29 | 29°55 | 14° 4 | T 26 | |
| F 27 | 0 26 24 | 4°48'14 | 16°32 | 20°58 | 22°33 | 27°31 | 10°55 | 22°17 | 5°28 | 15°10 | 21°20 | 11°56 | 10°25 | 0♌2 | 14° 6 | F 27 | |
| S 28 | 0 30 21 | 5°46'50 | 0♌15 | 22°42 | 22°10 | 28°11 | 11° 4 | 22°20 | 5°29 | 15°11 | 21°19 | 11°49 | 10°22 | 0° 8 | 14° 8 | S 28 | |
| S 29 | 0 34 18 | 6°45'27 | 13°29 | 24°28 | 21°45 | 28°50 | 11°13 | 22°23 | 5°29 | 15°13 | 21°18 | 11°45 | 10°19 | 0°15 | 14°10 | S 29 | |
| M 30 | 0 38 14 | 7°44'05 | 26♌18 | 26♎16 | 21♌18 | 29♊30 | 11♌22 | 22♌27 | 5♌30 | 15♌14 | 21°Y17 | 11♌42 | 10♌16 | 0♌22 | 14♌12 | M 30 | |

Delta T = 18m43s

OCTOBER 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|--------|-------|-------|-------|------|-------|--------|--------|-------|------|--------|------|
| T 1 | 0 42 11 | 8♌42'46 | 8♌44 | 28♎5 | 20°R50 | 0♌10 | 11♌31 | 22♌30 | 5♌31 | 15♌16 | 21°R16 | 11°D41 | 10♌13 | 0♌28 | 14♌14 | T 1 |
| W 2 | 0 46 7 | 9°41'28 | 20°52 | 29°54 | 20♌19 | 0°50 | 11°40 | 22°34 | 5°32 | 15°17 | 21°Y15 | 11♌42 | 10°10 | 0°35 | 14°15 | W 2 |
| T 3 | 0 50 4 | 10°40'12 | 2♌49 | 1♌44 | 19°47 | 1°29 | 11°50 | 22°37 | 5°33 | 15°19 | 21°14 | 11°43 | 10° 6 | 0°42 | 14°17 | T 3 |
| F 4 | 0 54 0 | 11°38'57 | 14°38 | 3°35 | 19°14 | 2° 9 | 11°59 | 22°41 | 5°34 | 15°20 | 21°12 | 11°R43 | 10° 3 | 0°48 | 14°19 | F 4 |
| S 5 | 0 57 57 | 12°37'44 | 26°25 | 5°25 | 18°39 | 2°49 | 12° 9 | 22°45 | 5°35 | 15°22 | 21°11 | 11°42 | 10° 0 | 0°55 | 14°20 | S 5 |
| S 6 | 1 1 53 | 13°36'33 | 8♌14 | 7°15 | 18° 4 | 3°29 | 12°19 | 22°48 | 5°36 | 15°23 | 21°10 | 11°38 | 9°57 | 1° 2 | 14°21 | S 6 |
| M 7 | 1 5 50 | 14°35'24 | 20° 9 | 9° 4 | 17°28 | 4° 9 | 12°28 | 22°52 | 5°38 | 15°24 | 21° 9 | 11°32 | 9°54 | 1° 8 | 14°23 | M 7 |
| T 8 | 1 9 47 | 15°34'16 | 2°Y12 | 10°54 | 16°51 | 4°49 | 12°38 | 22°56 | 5°39 | 15°26 | 21° 8 | 11°24 | 9°51 | 1°15 | 14°24 | T 8 |
| W 9 | 1 13 43 | 16°33'11 | 14°26 | 12°42 | 16°14 | 5°29 | 12°48 | 23° 0 | 5°40 | 15°27 | 21° 7 | 11°13 | 9°47 | 1°22 | 14°25 | W 9 |
| T 10 | 1 17 40 | 17°32'07 | 26°50 | 14°30 | 15°37 | 6° 9 | 12°58 | 23° 4 | 5°41 | 15°28 | 21° 5 | 11° 1 | 9°44 | 1°28 | 14°26 | T 10 |
| F 11 | 1 21 36 | 18°31'06 | 9♌26 | 16°18 | 15° 0 | 6°50 | 13° 9 | 23° 9 | 5°43 | 15°29 | 21° 4 | 10°49 | 9°41 | 1°35 | 14°27 | F 11 |
| S 12 | 1 25 33 | 19°30'06 | 22°13 | 18° 4 | 14°24 | 7°30 | 13°19 | 23°13 | 5°44 | 15°31 | 21° 3 | 10°38 | 9°38 | 1°41 | 14°28 | S 12 |
| S 13 | 1 29 29 | 20°29'09 | 5♌12 | 19°50 | 13°48 | 8°10 | 13°29 | 23°17 | 5°46 | 15°32 | 21° 2 | 10°29 | 9°35 | 1°48 | 14°29 | S 13 |
| M 14 | 1 33 26 | 21°28'14 | 18°23 | 21°36 | 13°14 | 8°51 | 13°40 | 23°22 | 5°47 | 15°33 | 21° 1 | 10°22 | 9°31 | 1°55 | 14°30 | M 14 |
| T 15 | 1 37 22 | 22°27'21 | 1♌46 | 23°20 | 12°40 | 9°31 | 13°50 | 23°26 | 5°49 | 15°34 | 21° 0 | 10°18 | 9°28 | 2° 1 | 14°30 | T 15 |
| W 16 | 1 41 19 | 23°26'31 | 15°22 | 25° 4 | 12° 8 | 10°12 | 14° 1 | 23°31 | 5°50 | 15°35 | 20°58 | 10°16 | 9°25 | 2° 8 | 14°31 | W 16 |
| T 17 | 1 45 15 | 24°25'43 | 29°12 | 26°47 | 11°38 | 10°52 | 14°12 | 23°35 | 5°52 | 15°36 | 20°57 | 10°D16 | 9°22 | 2°15 | 14°31 | T 17 |
| F 18 | 1 49 12 | 25°24'57 | 13♌17 | 28°29 | 11° 9 | 11°33 | 14°22 | 23°40 | 5°54 | 15°37 | 20°56 | 10°R16 | 9°19 | 2°21 | 14°32 | F 18 |
| S 19 | 1 53 9 | 26°24'14 | 27°36 | 0♌10 | 10°42 | 12°13 | 14°33 | 23°45 | 5°56 | 15°38 | 20°55 | 10°15 | 9°16 | 2°28 | 14°32 | S 19 |
| S 20 | 1 57 5 | 27°23'33 | 12♎8 | 1°51 | 10°18 | 12°54 | 14°44 | 23°50 | 5°57 | 15°39 | 20°54 | 10°12 | 9°12 | 2°35 | 14°32 | S 20 |
| M 21 | 2 1 2 | 28°22'54 | 26°47 | 3°31 | 9°55 | 13°35 | 14°56 | 23°55 | 5°59 | 15°40 | 20°53 | 10° 6 | 9° 9 | 2°41 | 14°32 | M 21 |
| T 22 | 2 4 58 | 29°22'17 | 11♌29 | 5°10 | 9°35 | 14°16 | 15° 7 | 24° 0 | 6° 1 | 15°41 | 20°51 | 9°58 | 9° 6 | 2°48 | 14°33 | T 22 |
| W 23 | 2 8 55 | 0♌21'42 | 26° 6 | 6°48 | 9°17 | 14°57 | 15°18 | 24° 5 | 6° 3 | 15°42 | 20°50 | 9°47 | 9° 3 | 2°55 | 14°R33 | W 23 |
| T 24 | 2 12 51 | 1°21'10 | 10♌30 | 8°26 | 9° 1 | 15°38 | 15°29 | 24°10 | 6° 5 | 15°43 | 20°49 | 9°35 | 9° 0 | 3° 1 | 14°33 | T 24 |
| F 25 | 2 16 48 | 2°20'39 | 24°35 | 10° 3 | 8°48 | 16°19 | 15°41 | 24°15 | 6° 7 | 15°43 | 20°48 | 9°23 | 8°57 | 3° 8 | 14°32 | F 25 |
| S 26 | 2 20 44 | 3°20'10 | 8♌16 | 11°39 | 8°37 | 17° 0 | 15°52 | 24°20 | 6° 9 | 15°44 | 20°47 | 9°13 | 8°53 | 3°15 | 14°32 | S 26 |
| S 27 | 2 24 41 | 4°19'43 | 21°31 | 13°15 | 8°28 | 17°41 | 16° 4 | 24°26 | 6°11 | 15°45 | 20°46 | 9° 4 | 8°50 | 3°21 | 14°32 | S 27 |
| M 28 | 2 28 38 | 5°19'18 | 4♌21 | 14°50 | 8°22 | 18°22 | 16°15 | 24°31 | 6°13 | 15°46 | 20°45 | 8°59 | 8°47 | 3°28 | 14°31 | M 28 |
| T 29 | 2 32 34 | 6°18'55 | 16°49 | 16°25 | 8°19 | 19° 3 | 16°27 | 24°36 | 6°16 | 15°46 | 20°44 | 8°56 | 8°44 | 3°35 | 14°31 | T 29 |
| W 30 | 2 36 31 | 7°18'34 | 28°59 | 17°59 | 8°D18 | 19°44 | 16°39 | 24°42 | 6°18 | 15°47 | 20°42 | 8°55 | 8°41 | 3°41 | 14°30 | W 30 |
| T 31 | 2 40 27 | 8♌18'14 | 10♌56 | 19♎32 | 8♌19 | 20♌25 | 16♌51 | 24♌48 | 6♌20 | 15♌48 | 20°Y41 | 8♌55 | 8♌37 | 3♌48 | 14♌30 | T 31 |

Delta T = 18m43s

ASTRODIENST EPHEMERIS for the year 2576
geocentric

NOVEMBER 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|-------|------|--------|--------|-------|------|------|--------|------|
| F 1 | 2 44 24 | 9♏17'55 | 22♋46 | 21♏ 5 | 8♏23 | 21♏ 7 | 17♁ 3 | 24♁53 | 6♁23 | 15♏48 | 20°R40 | 8°R55 | 8♏34 | 3♏55 | 14°R29 | F 1 |
| S 2 | 2 48 20 | 10°17'39 | 4♏34 | 22°37 | 8°28 | 21°48 | 17°15 | 24°59 | 6°25 | 15°49 | 20°Y39 | 8♏53 | 8°31 | 4° 1 | 14♁28 | S 2 |
| S 3 | 2 52 17 | 11°17'24 | 16°25 | 24° 9 | 8°37 | 22°30 | 17°27 | 25° 5 | 6°27 | 15°49 | 20°38 | 8°49 | 8°28 | 4° 8 | 14°27 | S 3 |
| M 4 | 2 56 13 | 12°17'11 | 28°25 | 25°40 | 8°47 | 23°11 | 17°39 | 25°10 | 6°30 | 15°50 | 20°37 | 8°43 | 8°25 | 4°15 | 14°26 | M 4 |
| T 5 | 3 0 10 | 13°16'59 | 10°Y35 | 27°10 | 9° 0 | 23°53 | 17°51 | 25°16 | 6°32 | 15°50 | 20°36 | 8°33 | 8°22 | 4°21 | 14°25 | T 5 |
| W 6 | 3 4 7 | 14°16'50 | 23° 0 | 28°41 | 9°14 | 24°34 | 18° 3 | 25°22 | 6°35 | 15°50 | 20°35 | 8°21 | 8°18 | 4°28 | 14°24 | W 6 |
| T 7 | 3 8 3 | 15°16'42 | 5♏40 | 0♁10 | 9°31 | 25°16 | 18°16 | 25°28 | 6°37 | 15°51 | 20°34 | 8° 8 | 8°15 | 4°35 | 14°23 | T 7 |
| F 8 | 3 12 0 | 16°16'36 | 18°35 | 1°39 | 9°50 | 25°58 | 18°28 | 25°34 | 6°40 | 15°51 | 20°33 | 7°55 | 8°12 | 4°41 | 14°22 | F 8 |
| S 9 | 3 15 56 | 17°16'32 | 1♏43 | 3° 7 | 10°11 | 26°39 | 18°40 | 25°40 | 6°43 | 15°51 | 20°32 | 7°42 | 8° 9 | 4°48 | 14°20 | S 9 |
| S 10 | 3 19 53 | 18°16'30 | 15° 5 | 4°35 | 10°33 | 27°21 | 18°53 | 25°46 | 6°45 | 15°52 | 20°31 | 7°32 | 8° 6 | 4°55 | 14°19 | S 10 |
| M11 | 3 23 49 | 19°16'30 | 28°37 | 6° 3 | 10°58 | 28° 3 | 19° 5 | 25°52 | 6°48 | 15°52 | 20°30 | 7°24 | 8° 2 | 5° 1 | 14°17 | M11 |
| T 12 | 3 27 46 | 20°16'32 | 12♁17 | 7°29 | 11°24 | 28°45 | 19°18 | 25°58 | 6°51 | 15°52 | 20°29 | 7°19 | 7°59 | 5° 8 | 14°16 | T 12 |
| W13 | 3 31 42 | 21°16'36 | 26° 5 | 8°55 | 11°52 | 29°27 | 19°31 | 26° 5 | 6°53 | 15°52 | 20°28 | 7°17 | 7°56 | 5°15 | 14°14 | W13 |
| T 14 | 3 35 39 | 22°16'43 | 10♏0 | 10°21 | 12°21 | 0♁1 | 19°43 | 26°11 | 6°56 | 15°53 | 20°27 | 7°D17 | 7°53 | 5°21 | 14°13 | T 14 |
| F 15 | 3 39 36 | 23°16'51 | 24° 2 | 11°46 | 12°52 | 0°51 | 19°56 | 26°17 | 6°59 | 15°53 | 20°26 | 7°R17 | 7°50 | 5°28 | 14°11 | F 15 |
| S 16 | 3 43 32 | 24°17'01 | 8♏9 | 13°10 | 13°25 | 1°33 | 20° 9 | 26°23 | 7° 2 | 15°53 | 20°25 | 7°16 | 7°47 | 5°35 | 14° 9 | S 16 |
| S 17 | 3 47 29 | 25°17'14 | 22°22 | 14°33 | 13°59 | 2°16 | 20°22 | 26°30 | 7° 5 | 15°R53 | 20°24 | 7°14 | 7°43 | 5°41 | 14° 7 | S 17 |
| M18 | 3 51 25 | 26°17'28 | 6♏37 | 15°55 | 14°35 | 2°58 | 20°35 | 26°36 | 7° 8 | 15°53 | 20°23 | 7° 8 | 7°40 | 5°48 | 14° 5 | M18 |
| T 19 | 3 55 22 | 27°17'45 | 20°53 | 17°17 | 15°12 | 3°40 | 20°47 | 26°43 | 7°11 | 15°53 | 20°22 | 7° 0 | 7°37 | 5°55 | 14° 3 | T 19 |
| W20 | 3 59 18 | 28°18'03 | 5♏ 3 | 18°37 | 15°50 | 4°22 | 21° 0 | 26°49 | 7°14 | 15°53 | 20°21 | 6°50 | 7°34 | 6° 1 | 14° 1 | W20 |
| T 21 | 4 3 15 | 29°18'23 | 19° 4 | 19°56 | 16°29 | 5° 5 | 21°13 | 26°56 | 7°17 | 15°52 | 20°20 | 6°39 | 7°31 | 6° 8 | 13°58 | T 21 |
| F 22 | 4 7 11 | 0♁18'45 | 2♁50 | 21°14 | 17°10 | 5°47 | 21°26 | 27° 2 | 7°20 | 15°52 | 20°19 | 6°28 | 7°28 | 6°15 | 13°56 | F 22 |
| S 23 | 4 11 8 | 1°19'09 | 16°18 | 22°31 | 17°51 | 6°30 | 21°40 | 27° 9 | 7°23 | 15°52 | 20°19 | 6°17 | 7°24 | 6°21 | 13°54 | S 23 |
| S 24 | 4 15 5 | 2°19'34 | 29°25 | 23°45 | 18°34 | 7°12 | 21°53 | 27°16 | 7°26 | 15°52 | 20°18 | 6° 9 | 7°21 | 6°28 | 13°51 | S 24 |
| M25 | 4 19 1 | 3°20'00 | 12♁10 | 24°58 | 19°18 | 7°55 | 22° 6 | 27°22 | 7°29 | 15°52 | 20°17 | 6° 4 | 7°18 | 6°34 | 13°49 | M25 |
| T 26 | 4 22 58 | 4°20'28 | 24°37 | 26° 9 | 20° 3 | 8°38 | 22°19 | 27°29 | 7°32 | 15°51 | 20°16 | 6° 1 | 7°15 | 6°41 | 13°46 | T 26 |
| W27 | 4 26 54 | 5°20'58 | 6♏47 | 27°18 | 20°49 | 9°21 | 22°32 | 27°36 | 7°36 | 15°51 | 20°15 | 6°D 1 | 7°12 | 6°48 | 13°43 | W27 |
| T 28 | 4 30 51 | 6°21'29 | 18°45 | 28°24 | 21°36 | 10° 3 | 22°45 | 27°42 | 7°39 | 15°51 | 20°15 | 6° 1 | 7° 8 | 6°54 | 13°41 | T 28 |
| F 29 | 4 34 47 | 7°22'00 | 0♁35 | 29°27 | 22°24 | 10°46 | 22°59 | 27°49 | 7°42 | 15°50 | 20°14 | 6° 2 | 7° 5 | 7° 1 | 13°38 | F 29 |
| S 30 | 4 38 44 | 8♁22'33 | 12♁24 | 0♁26 | 23♏13 | 11♁29 | 23♁12 | 27♁56 | 7♁45 | 15♏50 | 20°Y13 | 6°R 2 | 7♏ 2 | 7♏ 8 | 13♁35 | S 30 |

Delta T = 18m43s

DECEMBER 2576

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|-------|------|--------|--------|-------|------|-------|--------|------|
| S 1 | 4 42 40 | 9♁23'08 | 24♏16 | 1♁22 | 24♏ 2 | 12♁12 | 23♁25 | 28♁ 3 | 7♁49 | 15°R50 | 20°R13 | 6°R 1 | 6♏59 | 7♏14 | 13°R32 | S 1 |
| M 2 | 4 46 37 | 10°23'43 | 6°Y17 | 2°13 | 24°52 | 12°55 | 23°39 | 28°10 | 7°52 | 15♏49 | 20°Y12 | 5♏57 | 6°56 | 7°21 | 13♁29 | M 2 |
| T 3 | 4 50 34 | 11°24'20 | 18°31 | 2°59 | 25°44 | 13°38 | 23°52 | 28°17 | 7°55 | 15°49 | 20°11 | 5°51 | 6°53 | 7°28 | 13°26 | T 3 |
| W 4 | 4 54 30 | 12°24'57 | 1♁ 2 | 3°40 | 26°35 | 14°21 | 24° 5 | 28°23 | 7°59 | 15°48 | 20°10 | 5°44 | 6°49 | 7°34 | 13°23 | W 4 |
| T 5 | 4 58 27 | 13°25'36 | 13°52 | 4°14 | 27°28 | 15° 4 | 24°19 | 28°30 | 8° 2 | 15°47 | 20°10 | 5°34 | 6°46 | 7°41 | 13°20 | T 5 |
| F 6 | 5 2 23 | 14°26'17 | 27° 2 | 4°41 | 28°21 | 15°48 | 24°32 | 28°37 | 8° 5 | 15°47 | 20° 9 | 5°25 | 6°43 | 7°48 | 13°17 | F 6 |
| S 7 | 5 6 20 | 15°26'58 | 10♏31 | 5° 1 | 29°16 | 16°31 | 24°46 | 28°44 | 8° 9 | 15°46 | 20° 9 | 5°16 | 6°40 | 7°54 | 13°14 | S 7 |
| S 8 | 5 10 16 | 16°27'41 | 24°16 | 5°11 | 0♏10 | 17°14 | 24°59 | 28°51 | 8°12 | 15°46 | 20° 8 | 5° 9 | 6°37 | 8° 1 | 13°11 | S 8 |
| M 9 | 5 14 13 | 17°28'25 | 8♁15 | 5°R12 | 1° 6 | 17°57 | 25°13 | 28°58 | 8°16 | 15°45 | 20° 8 | 5° 4 | 6°34 | 8° 8 | 13° 7 | M 9 |
| T 10 | 5 18 9 | 18°29'10 | 22°22 | 5° 3 | 2° 2 | 18°41 | 25°26 | 29° 5 | 8°19 | 15°44 | 20° 7 | 5° 1 | 6°30 | 8°14 | 13° 4 | T 10 |
| W11 | 5 22 6 | 19°29'57 | 6♏34 | 4°44 | 2°58 | 19°24 | 25°40 | 29°12 | 8°23 | 15°43 | 20° 6 | 5°D 0 | 6°27 | 8°21 | 13° 1 | W11 |
| T 12 | 5 26 3 | 20°30'45 | 20°48 | 4°13 | 3°55 | 20° 8 | 25°53 | 29°19 | 8°26 | 15°43 | 20° 6 | 5° 1 | 6°24 | 8°28 | 12°57 | T 12 |
| F 13 | 5 29 59 | 21°31'34 | 5♏0 | 3°30 | 4°53 | 20°51 | 26° 7 | 29°26 | 8°30 | 15°42 | 20° 6 | 5° 2 | 6°21 | 8°34 | 12°54 | F 13 |
| S 14 | 5 33 56 | 22°32'25 | 19°10 | 2°37 | 5°51 | 21°35 | 26°20 | 29°33 | 8°33 | 15°41 | 20° 5 | 5°R 3 | 6°18 | 8°41 | 12°50 | S 14 |
| S 15 | 5 37 52 | 23°33'17 | 3♏15 | 1°35 | 6°50 | 22°19 | 26°34 | 29°40 | 8°37 | 15°40 | 20° 5 | 5° 3 | 6°14 | 8°48 | 12°47 | S 15 |
| M16 | 5 41 49 | 24°34'11 | 17°14 | 0°23 | 7°49 | 23° 2 | 26°48 | 29°47 | 8°40 | 15°39 | 20° 4 | 5° 0 | 6°11 | 8°54 | 12°43 | M16 |
| T 17 | 5 45 45 | 25°35'06 | 1♏ 6 | 29♁ 6 | 8°49 | 23°46 | 27° 1 | 29°55 | 8°44 | 15°38 | 20° 4 | 4°56 | 6° 8 | 9° 1 | 12°40 | T 17 |
| W18 | 5 49 42 | 26°36'02 | 14°50 | 27°44 | 9°49 | 24°30 | 27°15 | 0♁ 2 | 8°47 | 15°37 | 20° 3 | 4°51 | 6° 5 | 9° 8 | 12°36 | W18 |
| T 19 | 5 53 38 | 27°36'59 | 28°22 | 26°21 | 10°50 | 25°14 | 27°28 | 0° 9 | 8°51 | 15°36 | 20° 3 | 4°44 | 6° 2 | 9°14 | 12°32 | T 19 |
| F 20 | 5 57 35 | 28°37'57 | 11♁42 | 24°59 | 11°51 | 25°58 | 27°42 | 0°16 | 8°54 | 15°35 | 20° 3 | 4°38 | 5°59 | 9°21 | 12°29 | F 20 |
| S 21 | 6 1 32 | 29°38'56 | 24°48 | 23°42 | 12°52 | 26°42 | 27°56 | 0°23 | 8°58 | 15°34 | 20° 2 | 4°32 | 5°55 | 9°28 | 12°25 | S 21 |
| S 22 | 6 5 28 | 0♁39'56 | 7♁37 | 22°31 | 13°54 | 27°26 | 28° 9 | 0°30 | 9° 2 | 15°33 | 20° 2 | 4°28 | 5°52 | 9°34 | 12°21 | S 22 |
| M23 | 6 9 25 | 1°40'57 | 20°12 | 21°29 | 14°56 | 28°10 | 28°23 | 0°37 | 9° 5 | 15°32 | 20° 2 | 4°25 | 5°49 | 9°41 | 12°17 | M23 |
| T 24 | 6 13 21 | 2°41'59 | 2♏31 | 20°37 | 15°59 | 28°54 | 28°36 | 0°44 | 9° 9 | 15°31 | 20° 2 | 4°D24 | 5°46 | 9°48 | 12°14 | T 24 |
| W25 | 6 17 18 | 3°43'01 | 14°38 | 19°55 | 17° 2 | 29°38 | 28°50 | 0°51 | 9°12 | 15°30 | 20° 1 | 4°25 | 5°43 | 9°55 | 12°10 | W25 |
| T 26 | 6 21 14 | 4°44'03 | 26°35 | 19°24 | 18° 5 | 0♁22 | 29° 4 | 0°58 | 9°16 | 15°29 | 20° 1 | 4°26 | 5°40 | 10° 1 | 12° 6 | T 26 |
| F 27 | 6 25 11 | 5°45'06 | 8♁25 | 19° 5 | 19° 9 | 1° 7 | 29°17 | 1° 5 | 9°20 | 15°27 | 20° 1 | 4°28 | 5°36 | 10° 8 | 12° 2 | F 27 |
| S 28 | 6 29 8 | 6°46'10 | 20°14 | 18°D56 | 20°12 | 1°51 | 29°31 | 1°13 | 9°23 | 15°26 | 20° 1 | 4°30 | 5°33 | 10°15 | 11°58 | S 28 |
| S 29 | 6 33 4 | 7°47'13 | 2°Y 5 | 18°57 | 21°17 | 2°35 | 29°44 | 1°20 | 9°27 | 15°25 | 20° 1 | 4°31 | 5°30 | 10°21 | 11°54 | S 29 |
| M30 | 6 37 1 | 8°48'17 | 14° 5 | 19° 7 | 22°21 | 3°20 | 29°58 | 1°27 | 9°31 | 15°24 | 20° 1 | 4°R31 | 5°27 | 10°28 | 11°51 | M30 |
| T 31 | 6 40 57 | 9♁49'22 | 26°Y17 | 19♁27 | 23♏26 | 4♁ 4 | 0♁11 | 1♁34 | 9♁34 | 15♏22 | 20°Y 1 | 4♏30 | 5♏24 | 10♁35 | 11♁47 | T 31 |

Delta T = 18m44s

ASTRODIENST EPHEMERIS for the year 2577
geocentric

JANUARY 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|---------|--------|--------|--------|-------|-------|--------|--------|--------|-------|-------|--------|--------|------|-----|
| W 1 | 6 44 54 | 10°50'26 | 8°47 | 19°53 | 24°31 | 4°49 | 0°25 | 1°41 | 9°38 | 15°R21 | 20°R 1 | 4°R27 | 5°Ω20 | 10°K41 | 11°R43 | W 1 | |
| T 2 | 6 48 50 | 11°51'31 | 21°39 | 20°27 | 25°36 | 5°33 | 0°38 | 1°48 | 9°41 | 15°Ω20 | 20°Y 1 | 4°Ω24 | 5°17 | 10°48 | 11°Ω39 | T 2 | |
| F 3 | 6 52 47 | 12°52'35 | 4°II53 | 21° 7 | 26°42 | 6°18 | 0°52 | 1°55 | 9°45 | 15°18 | 20°D 1 | 4°21 | 5°14 | 10°55 | 11°35 | F 3 | |
| S 4 | 6 56 43 | 13°53'41 | 18°32 | 21°53 | 27°48 | 7° 3 | 1° 5 | 2° 2 | 9°49 | 15°17 | 20° 1 | 4°18 | 5°11 | 11° 1 | 11°31 | S 4 | |
| S 5 | 7 0 40 | 14°54'46 | 2°Ω33 | 22°44 | 28°54 | 7°47 | 1°19 | 2° 9 | 9°52 | 15°16 | 20° 1 | 4°15 | 5° 8 | 11° 8 | 11°27 | S 5 | |
| M 6 | 7 4 37 | 15°55'51 | 16°53 | 23°39 | 0°X 1 | 8°32 | 1°32 | 2°16 | 9°56 | 15°14 | 20° 1 | 4°13 | 5° 5 | 11°15 | 11°23 | M 6 | |
| T 7 | 7 8 33 | 16°56'57 | 1°Ω27 | 24°38 | 1° 7 | 9°17 | 1°45 | 2°23 | 10° 0 | 15°13 | 20° 1 | 4°D13 | 5° 1 | 11°21 | 11°19 | T 7 | |
| W 8 | 7 12 30 | 17°58'03 | 16° 8 | 25°40 | 2°14 | 10° 2 | 1°59 | 2°30 | 10° 3 | 15°11 | 20° 1 | 4°13 | 4°58 | 11°28 | 11°16 | W 8 | |
| T 9 | 7 16 26 | 18°59'10 | 0°η50 | 26°45 | 3°21 | 10°46 | 2°12 | 2°37 | 10° 7 | 15°10 | 20° 1 | 4°14 | 4°55 | 11°35 | 11°12 | T 9 | |
| F 10 | 7 20 23 | 20° 0'16 | 15°26 | 27°54 | 4°28 | 11°31 | 2°25 | 2°43 | 10°10 | 15° 8 | 20° 1 | 4°15 | 4°52 | 11°41 | 11° 8 | F 10 | |
| S 11 | 7 24 19 | 21° 1'23 | 29°52 | 29° 4 | 5°36 | 12°16 | 2°39 | 2°50 | 10°14 | 15° 7 | 20° 1 | 4°16 | 4°49 | 11°48 | 11° 4 | S 11 | |
| S 12 | 7 28 16 | 22° 2'30 | 14°Ω 4 | 0°Ω17 | 6°44 | 13° 1 | 2°52 | 2°57 | 10°18 | 15° 5 | 20° 2 | 4°17 | 4°46 | 11°55 | 11° 0 | S 12 | |
| M13 | 7 32 12 | 23° 3'38 | 28° 1 | 1°31 | 7°51 | 13°46 | 3° 5 | 3° 4 | 10°21 | 15° 4 | 20° 2 | 4°R17 | 4°42 | 12° 1 | 10°57 | M13 | |
| T 14 | 7 36 9 | 24° 4'46 | 11°II42 | 2°47 | 9° 0 | 14°32 | 3°18 | 3°11 | 10°25 | 15° 2 | 20° 2 | 4°16 | 4°39 | 12° 8 | 10°53 | T 14 | |
| W15 | 7 40 6 | 25° 5'54 | 25° 7 | 4° 5 | 10° 8 | 15°17 | 3°32 | 3°18 | 10°28 | 15° 1 | 20° 2 | 4°15 | 4°36 | 12°15 | 10°49 | W15 | |
| T 16 | 7 44 2 | 26° 7'03 | 8°X17 | 5°24 | 11°16 | 16° 2 | 3°45 | 3°24 | 10°32 | 14°59 | 20° 3 | 4°14 | 4°33 | 12°21 | 10°45 | T 16 | |
| F 17 | 7 47 59 | 27° 8'12 | 21°12 | 6°45 | 12°25 | 16°47 | 3°58 | 3°31 | 10°35 | 14°58 | 20° 3 | 4°13 | 4°30 | 12°28 | 10°42 | F 17 | |
| S 18 | 7 51 55 | 28° 9'20 | 3°Ω54 | 8° 6 | 13°34 | 17°32 | 4°11 | 3°38 | 10°39 | 14°56 | 20° 3 | 4°12 | 4°26 | 12°35 | 10°38 | S 18 | |
| S 19 | 7 55 52 | 29°10'29 | 16°24 | 9°29 | 14°42 | 18°18 | 4°24 | 3°44 | 10°42 | 14°54 | 20° 4 | 4°12 | 4°23 | 12°41 | 10°34 | S 19 | |
| M20 | 7 59 48 | 0°Ω11'37 | 28°42 | 10°52 | 15°52 | 19° 3 | 4°37 | 3°51 | 10°46 | 14°53 | 20° 4 | 4°D12 | 4°20 | 12°48 | 10°31 | M20 | |
| T 21 | 8 3 45 | 1°12'45 | 10°Ω51 | 12°17 | 17° 1 | 19°48 | 4°50 | 3°58 | 10°49 | 14°51 | 20° 4 | 4°12 | 4°17 | 12°55 | 10°27 | T 21 | |
| W22 | 8 7 41 | 2°13'53 | 22°51 | 13°42 | 18°10 | 20°34 | 5° 3 | 4° 4 | 10°53 | 14°49 | 20° 5 | 4°12 | 4°14 | 13° 1 | 10°24 | W22 | |
| T 23 | 8 11 38 | 3°15'00 | 4°K44 | 15° 8 | 19°20 | 21°19 | 5°16 | 4°11 | 10°56 | 14°48 | 20° 5 | 4°12 | 4°11 | 13° 8 | 10°20 | T 23 | |
| F 24 | 8 15 35 | 4°16'07 | 16°34 | 16°35 | 20°29 | 22° 5 | 5°28 | 4°17 | 11° 0 | 14°46 | 20° 6 | 4°R12 | 4° 7 | 13°15 | 10°17 | F 24 | |
| S 25 | 8 19 31 | 5°17'13 | 28°22 | 18° 2 | 21°39 | 22°50 | 5°41 | 4°24 | 11° 3 | 14°44 | 20° 6 | 4°12 | 4° 4 | 13°21 | 10°13 | S 25 | |
| S 26 | 8 23 28 | 6°18'18 | 10°Y14 | 19°30 | 22°49 | 23°36 | 5°54 | 4°30 | 11° 6 | 14°43 | 20° 7 | 4°12 | 4° 1 | 13°28 | 10°10 | S 26 | |
| M27 | 8 27 24 | 7°19'23 | 22°12 | 20°59 | 23°59 | 24°22 | 6° 6 | 4°36 | 11°10 | 14°41 | 20° 7 | 4°11 | 3°58 | 13°35 | 10° 7 | M27 | |
| T 28 | 8 31 21 | 8°20'27 | 4°Ω21 | 22°29 | 25° 9 | 25° 7 | 6°19 | 4°43 | 11°13 | 14°39 | 20° 8 | 4°D11 | 3°55 | 13°41 | 10° 3 | T 28 | |
| W29 | 8 35 17 | 9°21'30 | 16°47 | 23°59 | 26°19 | 25°53 | 6°32 | 4°49 | 11°16 | 14°38 | 20° 8 | 4°11 | 3°52 | 13°48 | 10° 0 | W29 | |
| T 30 | 8 39 14 | 10°22'32 | 29°32 | 25°29 | 27°29 | 26°39 | 6°44 | 4°55 | 11°20 | 14°36 | 20° 9 | 4°12 | 3°48 | 13°55 | 9°57 | T 30 | |
| F 31 | 8 43 10 | 11°23'33 | 12°II41 | 27°Ω 1 | 28°X40 | 27°Ω25 | 6°Ω56 | 5°Ω 1 | 11°Ω23 | 14°Ω34 | 20°Y10 | 4°Ω12 | 3°Ω45 | 14°K 1 | 9°Ω54 | F 31 | |

Delta T = 18m44s

FEBRUARY 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|---------|--------|--------|--------|--------|-------|--------|--------|--------|-------|-------|--------|-------|------|-----|
| S 1 | 8 47 7 | 12°24'34 | 26°II16 | 28°Ω32 | 29°X50 | 28°Ω10 | 7°Ω 9 | 5°Ω 7 | 11°Ω26 | 14°R33 | 20°Y10 | 4°Ω13 | 3°Ω42 | 14°K 8 | 9°R51 | S 1 | |
| S 2 | 8 51 4 | 13°25'34 | 10°Ω19 | 0°Ω 5 | 1°Ω 1 | 28°56 | 7°21 | 5°14 | 11°29 | 14°Ω31 | 20°11 | 4°14 | 3°39 | 14°15 | 9°Ω48 | S 2 | |
| M 3 | 8 55 0 | 14°26'32 | 24°46 | 1°38 | 2°12 | 29°42 | 7°33 | 5°20 | 11°33 | 14°29 | 20°12 | 4°14 | 3°36 | 14°21 | 9°45 | M 3 | |
| T 4 | 8 58 57 | 15°27'30 | 9°Ω34 | 3°12 | 3°22 | 0°Ω28 | 7°45 | 5°26 | 11°36 | 14°28 | 20°12 | 4°R14 | 3°32 | 14°28 | 9°42 | T 4 | |
| W 5 | 9 2 53 | 16°28'27 | 24°36 | 4°46 | 4°33 | 1°14 | 7°58 | 5°32 | 11°39 | 14°26 | 20°13 | 4°14 | 3°29 | 14°35 | 9°39 | W 5 | |
| T 6 | 9 6 50 | 17°29'23 | 9°η43 | 6°21 | 5°44 | 2° 0 | 8°10 | 5°37 | 11°42 | 14°24 | 20°14 | 4°13 | 3°26 | 14°42 | 9°36 | T 6 | |
| F 7 | 9 10 46 | 18°30'18 | 24°46 | 7°57 | 6°55 | 2°46 | 8°22 | 5°43 | 11°45 | 14°23 | 20°15 | 4°11 | 3°23 | 14°48 | 9°33 | F 7 | |
| S 8 | 9 14 43 | 19°31'12 | 9°Ω36 | 9°33 | 8° 7 | 3°32 | 8°33 | 5°49 | 11°48 | 14°21 | 20°15 | 4° 9 | 3°20 | 14°55 | 9°31 | S 8 | |
| S 9 | 9 18 39 | 20°32'06 | 24° 6 | 11°10 | 9°18 | 4°18 | 8°45 | 5°55 | 11°51 | 14°19 | 20°16 | 4° 7 | 3°17 | 15° 2 | 9°28 | S 9 | |
| M10 | 9 22 36 | 21°32'59 | 8°II14 | 12°48 | 10°29 | 5° 4 | 8°57 | 6° 0 | 11°54 | 14°18 | 20°17 | 4° 6 | 3°13 | 15° 8 | 9°25 | M10 | |
| T 11 | 9 26 33 | 22°33'51 | 21°57 | 14°26 | 11°41 | 5°50 | 9° 9 | 6° 6 | 11°57 | 14°16 | 20°18 | 4°D 6 | 3°10 | 15°15 | 9°23 | T 11 | |
| W12 | 9 30 29 | 23°34'43 | 5°X17 | 16° 5 | 12°52 | 6°37 | 9°20 | 6°12 | 12° 0 | 14°14 | 20°19 | 4° 6 | 3° 7 | 15°22 | 9°21 | W12 | |
| T 13 | 9 34 26 | 24°35'34 | 18°16 | 17°45 | 14° 4 | 7°23 | 9°32 | 6°17 | 12° 3 | 14°13 | 20°20 | 4° 7 | 3° 4 | 15°28 | 9°18 | T 13 | |
| F 14 | 9 38 22 | 25°36'24 | 0°Ω56 | 19°26 | 15°15 | 8° 9 | 9°43 | 6°23 | 12° 6 | 14°11 | 20°21 | 4° 9 | 3° 1 | 15°35 | 9°16 | F 14 | |
| S 15 | 9 42 19 | 26°37'13 | 13°21 | 21° 7 | 16°27 | 8°55 | 9°55 | 6°28 | 12° 9 | 14° 9 | 20°22 | 4°10 | 2°58 | 15°42 | 9°14 | S 15 | |
| S 16 | 9 46 15 | 27°38'01 | 25°34 | 22°49 | 17°39 | 9°42 | 10° 6 | 6°33 | 12°12 | 14° 8 | 20°22 | 4°11 | 2°54 | 15°48 | 9°12 | S 16 | |
| M17 | 9 50 12 | 28°38'48 | 7°Ω38 | 24°32 | 18°51 | 10°28 | 10°17 | 6°39 | 12°15 | 14° 6 | 20°23 | 4°R12 | 2°51 | 15°55 | 9° 9 | M17 | |
| T 18 | 9 54 8 | 29°39'34 | 19°36 | 26°16 | 20° 2 | 11°14 | 10°28 | 6°44 | 12°17 | 14° 4 | 20°24 | 4°11 | 2°48 | 16° 2 | 9° 7 | T 18 | |
| W19 | 9 58 5 | 0°X40'19 | 1°K29 | 28° 1 | 21°14 | 12° 1 | 10°39 | 6°49 | 12°20 | 14° 3 | 20°25 | 4° 8 | 2°45 | 16° 8 | 9° 6 | W19 | |
| T 20 | 10 2 2 | 1°41'03 | 13°19 | 29°46 | 22°26 | 12°47 | 10°50 | 6°54 | 12°23 | 14° 1 | 20°26 | 4° 4 | 2°42 | 16°15 | 9° 4 | T 20 | |
| F 21 | 10 5 58 | 2°41'45 | 25° 9 | 1°K32 | 23°38 | 13°34 | 11° 1 | 6°59 | 12°25 | 13°59 | 20°27 | 3°59 | 2°38 | 16°22 | 9° 2 | F 21 | |
| S 22 | 10 9 55 | 3°42'25 | 6°Y59 | 3°19 | 24°51 | 14°20 | 11°12 | 7° 4 | 12°28 | 13°58 | 20°28 | 3°54 | 2°35 | 16°28 | 9° 0 | S 22 | |
| S 23 | 10 13 51 | 4°43'04 | 18°53 | 5° 7 | 26° 3 | 15° 7 | 11°23 | 7° 9 | 12°31 | 13°56 | 20°30 | 3°48 | 2°32 | 16°35 | 8°59 | S 23 | |
| M24 | 10 17 48 | 5°43'42 | 0°Ω54 | 6°55 | 27°15 | 15°53 | 11°33 | 7°13 | 12°33 | 13°55 | 20°31 | 3°43 | 2°29 | 16°42 | 8°57 | M24 | |
| T 25 | 10 21 44 | 6°44'17 | 13° 3 | 8°45 | 28°27 | 16°40 | 11°44 | 7°18 | 12°36 | 13°53 | 20°32 | 3°39 | 2°26 | 16°48 | 8°56 | T 25 | |
| W26 | 10 25 41 | 7°44'52 | 25°26 | 10°35 | 29°39 | 17°26 | 11°54 | 7°23 | 12°38 | 13°52 | 20°33 | 3°37 | 2°23 | 16°55 | 8°54 | W26 | |
| T 27 | 10 29 37 | 8°45'24 | 8°II 5 | 12°25 | 0°Ω52 | 18°13 | 12° 4 | 7°27 | 12°40 | 13°50 | 20°34 | 3°D36 | 2°19 | 17° 2 | 8°53 | T 27 | |
| F 28 | 10 33 34 | 9°X45'55 | 21°II 5 | 14°K17 | 2°Ω 4 | 18°Ω59 | 12°Ω15 | 7°Ω32 | 12°Ω43 | 13°Ω49 | 20°Y35 | 3°Ω37 | 2°Ω16 | 17°K 8 | 8°Ω52 | F 28 | |

Delta T = 18m44s

ASTRODIENST EPHEMERIS for the year 2577
geocentric

MARCH 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------|-------|--------|-------|-------|-------|------|-------|--------|--------|-------|------|-------|-------|------|
| S 1 | 10 37 31 | 10♋46'24 | 4♌30 | 16♌ 9 | 3♍16 | 19♍46 | 12♎25 | 7♏36 | 12♏45 | 13♐R47 | 20♑36 | 3♒38 | 2♓13 | 17♋15 | 8♌R51 | S 1 |
| S 2 | 10 41 27 | 11°46'51 | 18°22 | 18° 1 | 4°29 | 20°33 | 12°35 | 7°41 | 12°47 | 13♒46 | 20°37 | 3°40 | 2°10 | 17°22 | 8♌49 | S 2 |
| M 3 | 10 45 24 | 12°47'16 | 2♒41 | 19°53 | 5°41 | 21°19 | 12°44 | 7°45 | 12°50 | 13°44 | 20°39 | 3°R40 | 2° 7 | 17°29 | 8°49 | M 3 |
| T 4 | 10 49 20 | 13°47'39 | 17°26 | 21°46 | 6°54 | 22° 6 | 12°54 | 7°49 | 12°52 | 13°43 | 20°40 | 3°40 | 2° 3 | 17°35 | 8°48 | T 4 |
| W 5 | 10 53 17 | 14°48'01 | 2♎31 | 23°39 | 8° 6 | 22°53 | 13° 4 | 7°53 | 12°54 | 13°41 | 20°41 | 3°37 | 2° 0 | 17°42 | 8°47 | W 5 |
| T 6 | 10 57 13 | 15°48'21 | 17°48 | 25°32 | 9°19 | 23°39 | 13°13 | 7°57 | 12°56 | 13°40 | 20°42 | 3°32 | 1°57 | 17°49 | 8°46 | T 6 |
| F 7 | 11 1 10 | 16°48'39 | 3♊ 6 | 27°24 | 10°32 | 24°26 | 13°23 | 8° 1 | 12°58 | 13°39 | 20°43 | 3°26 | 1°54 | 17°55 | 8°45 | F 7 |
| S 8 | 11 5 6 | 17°48'56 | 18°15 | 29°15 | 11°44 | 25°13 | 13°32 | 8° 5 | 13° 0 | 13°37 | 20°45 | 3°19 | 1°51 | 18° 2 | 8°45 | S 8 |
| S 9 | 11 9 3 | 18°49'11 | 3♌ 4 | 1°Y 5 | 12°57 | 25°59 | 13°41 | 8° 9 | 13° 2 | 13°36 | 20°46 | 3°12 | 1°48 | 18° 9 | 8°44 | S 9 |
| M10 | 11 12 59 | 19°49'24 | 17°27 | 2°54 | 14°10 | 26°46 | 13°50 | 8°12 | 13° 4 | 13°35 | 20°47 | 3° 7 | 1°44 | 18°15 | 8°44 | M10 |
| T 11 | 11 16 56 | 20°49'37 | 1♌21 | 4°41 | 15°23 | 27°33 | 13°59 | 8°16 | 13° 6 | 13°33 | 20°48 | 3° 3 | 1°41 | 18°22 | 8°44 | T 11 |
| W12 | 11 20 53 | 21°49'47 | 14°47 | 6°26 | 16°35 | 28°20 | 14° 8 | 8°20 | 13° 8 | 13°32 | 20°50 | 3° 1 | 1°38 | 18°29 | 8°43 | W12 |
| T 13 | 11 24 49 | 22°49'57 | 27°45 | 8° 8 | 17°48 | 29° 7 | 14°17 | 8°23 | 13°10 | 13°31 | 20°51 | 3°D 1 | 1°35 | 18°35 | 8°43 | T 13 |
| F 14 | 11 28 46 | 23°50'04 | 10♌21 | 9°47 | 19° 1 | 29°53 | 14°25 | 8°26 | 13°12 | 13°30 | 20°52 | 3° 2 | 1°32 | 18°42 | 8°D43 | F 14 |
| S 15 | 11 32 42 | 24°50'11 | 22°39 | 11°22 | 20°14 | 0♋40 | 14°34 | 8°30 | 13°13 | 13°29 | 20°54 | 3° 3 | 1°29 | 18°49 | 8°43 | S 15 |
| S 16 | 11 36 39 | 25°50'15 | 4♍44 | 12°53 | 21°27 | 1°27 | 14°42 | 8°33 | 13°15 | 13°27 | 20°55 | 3°R 4 | 1°25 | 18°55 | 8°43 | S 16 |
| M17 | 11 40 35 | 26°50'18 | 16°40 | 14°19 | 22°40 | 2°14 | 14°50 | 8°36 | 13°17 | 13°26 | 20°56 | 3° 2 | 1°22 | 19° 2 | 8°44 | M17 |
| T 18 | 11 44 32 | 27°50'20 | 28°30 | 15°39 | 23°53 | 3° 1 | 14°58 | 8°39 | 13°18 | 13°25 | 20°58 | 2°59 | 1°19 | 19° 9 | 8°44 | T 18 |
| W19 | 11 48 28 | 28°50'19 | 10♌19 | 16°54 | 25° 6 | 3°48 | 15° 6 | 8°42 | 13°20 | 13°24 | 20°59 | 2°53 | 1°16 | 19°16 | 8°44 | W19 |
| T 20 | 11 52 25 | 29°50'17 | 22° 8 | 18° 2 | 26°19 | 4°35 | 15°14 | 8°45 | 13°21 | 13°23 | 21° 0 | 2°45 | 1°13 | 19°22 | 8°45 | T 20 |
| F 21 | 11 56 22 | 0°Y50'13 | 4°Y 0 | 19° 3 | 27°32 | 5°22 | 15°22 | 8°47 | 13°23 | 13°22 | 21° 2 | 2°34 | 1° 9 | 19°29 | 8°45 | F 21 |
| S 22 | 12 0 18 | 1°50'07 | 15°55 | 19°57 | 28°45 | 6° 9 | 15°29 | 8°50 | 13°24 | 13°21 | 21° 3 | 2°22 | 1° 6 | 19°36 | 8°46 | S 22 |
| S 23 | 12 4 15 | 2°49'59 | 27°56 | 20°43 | 29°58 | 6°55 | 15°37 | 8°53 | 13°25 | 13°20 | 21° 4 | 2°11 | 1° 3 | 19°42 | 8°47 | S 23 |
| M24 | 12 8 11 | 3°49'48 | 10♌ 4 | 21°21 | 1♋11 | 7°42 | 15°44 | 8°55 | 13°27 | 13°19 | 21° 6 | 1°59 | 1° 0 | 19°49 | 8°47 | M24 |
| T 25 | 12 12 8 | 4°49'36 | 22°20 | 21°50 | 2°24 | 8°29 | 15°51 | 8°57 | 13°28 | 13°18 | 21° 7 | 1°50 | 0°57 | 19°56 | 8°48 | T 25 |
| W26 | 12 16 4 | 5°49'22 | 4♌47 | 22°12 | 3°37 | 9°16 | 15°58 | 9° 0 | 13°29 | 13°17 | 21° 9 | 1°43 | 0°54 | 20° 2 | 8°49 | W26 |
| T 27 | 12 20 1 | 6°49'06 | 17°27 | 22°25 | 4°50 | 10° 3 | 16° 5 | 9° 2 | 13°30 | 13°16 | 21°10 | 1°39 | 0°50 | 20° 9 | 8°50 | T 27 |
| F 28 | 12 23 57 | 7°48'47 | 0♌25 | 22°R30 | 6° 3 | 10°50 | 16°11 | 9° 4 | 13°31 | 13°15 | 21°11 | 1°37 | 0°47 | 20°16 | 8°51 | F 28 |
| S 29 | 12 27 54 | 8°48'26 | 13°42 | 22°27 | 7°17 | 11°37 | 16°18 | 9° 6 | 13°32 | 13°15 | 21°13 | 1°D37 | 0°44 | 20°22 | 8°53 | S 29 |
| S 30 | 12 31 51 | 9°48'03 | 27°22 | 22°15 | 8°30 | 12°24 | 16°24 | 9° 8 | 13°33 | 13°14 | 21°14 | 1°R38 | 0°41 | 20°29 | 8°54 | S 30 |
| M31 | 12 35 47 | 10°Y47'38 | 11♒27 | 21°Y56 | 9♋43 | 13♋11 | 16°30 | 9♌10 | 13°34 | 13♒13 | 21°Y16 | 1♒37 | 0♓38 | 20♋36 | 8♌55 | M31 |

Delta T = 18m45s

APRIL 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------|-------|--------|--------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|------|
| T 1 | 12 39 44 | 11°Y47'10 | 25♒57 | 21°R31 | 10♌56 | 13♌58 | 16♎37 | 9♏11 | 13♏35 | 13°R12 | 21°Y17 | 1°R35 | 0♓35 | 20♋42 | 8♌57 | T 1 |
| W 2 | 12 43 40 | 12°46'40 | 10♎48 | 20°Y59 | 12° 9 | 14°45 | 16°42 | 9°13 | 13°36 | 13♒12 | 21°19 | 1♒31 | 0°31 | 20°49 | 8°58 | W 2 |
| T 3 | 12 47 37 | 13°46'08 | 25°56 | 20°21 | 13°22 | 15°32 | 16°48 | 9°14 | 13°37 | 13°11 | 21°20 | 1°23 | 0°28 | 20°56 | 9° 0 | T 3 |
| F 4 | 12 51 33 | 14°45'33 | 11♊10 | 19°39 | 14°36 | 16°18 | 16°54 | 9°16 | 13°37 | 13°10 | 21°21 | 1°14 | 0°25 | 21° 3 | 9° 1 | F 4 |
| S 5 | 12 55 30 | 15°44'57 | 26°20 | 18°53 | 15°49 | 17° 5 | 16°59 | 9°17 | 13°38 | 13°10 | 21°23 | 1° 3 | 0°22 | 21° 9 | 9° 3 | S 5 |
| S 6 | 12 59 26 | 16°44'19 | 11♌15 | 18° 4 | 17° 2 | 17°52 | 17° 4 | 9°18 | 13°39 | 13° 9 | 21°24 | 0°52 | 0°19 | 21°16 | 9° 5 | S 6 |
| M 7 | 13 3 23 | 17°43'38 | 25°47 | 17°13 | 18°15 | 18°39 | 17° 9 | 9°19 | 13°39 | 13° 9 | 21°26 | 0°43 | 0°15 | 21°23 | 9° 7 | M 7 |
| T 8 | 13 7 19 | 18°42'57 | 9♌51 | 16°22 | 19°29 | 19°26 | 17°14 | 9°20 | 13°40 | 13° 8 | 21°27 | 0°36 | 0°12 | 21°29 | 9° 9 | T 8 |
| W 9 | 13 11 16 | 19°42'13 | 23°25 | 15°32 | 20°42 | 20°13 | 17°19 | 9°21 | 13°40 | 13° 8 | 21°29 | 0°31 | 0° 9 | 21°36 | 9°11 | W 9 |
| T 10 | 13 15 13 | 20°41'28 | 6♌29 | 14°42 | 21°55 | 21° 0 | 17°24 | 9°22 | 13°40 | 13° 7 | 21°30 | 0°29 | 0° 6 | 21°43 | 9°13 | T 10 |
| F 11 | 13 19 9 | 21°40'40 | 19° 8 | 13°56 | 23° 8 | 21°47 | 17°28 | 9°23 | 13°41 | 13° 7 | 21°31 | 0°D28 | 0° 3 | 21°49 | 9°16 | F 11 |
| S 12 | 13 23 6 | 22°39'51 | 1♌27 | 13°12 | 24°22 | 22°34 | 17°32 | 9°24 | 13°41 | 13° 6 | 21°33 | 0°R28 | 29♌59 | 21°56 | 9°18 | S 12 |
| S 13 | 13 27 2 | 23°39'01 | 13°31 | 12°31 | 25°35 | 23°21 | 17°36 | 9°24 | 13°41 | 13° 6 | 21°34 | 0°27 | 29°56 | 22° 3 | 9°20 | S 13 |
| M14 | 13 30 59 | 24°38'08 | 25°25 | 11°56 | 26°48 | 24° 7 | 17°40 | 9°24 | 13°42 | 13° 6 | 21°36 | 0°25 | 29°53 | 22° 9 | 9°23 | M14 |
| T 15 | 13 34 55 | 25°37'14 | 7♋14 | 11°24 | 28° 2 | 24°54 | 17°44 | 9°25 | 13°42 | 13° 5 | 21°37 | 0°21 | 29°50 | 22°16 | 9°25 | T 15 |
| W16 | 13 38 52 | 26°36'18 | 19° 2 | 10°58 | 29°15 | 25°41 | 17°48 | 9°25 | 13°42 | 13° 5 | 21°39 | 0°13 | 29°47 | 22°23 | 9°28 | W16 |
| T 17 | 13 42 48 | 27°35'20 | 0°Y53 | 10°37 | 0°Y28 | 26°28 | 17°51 | 9°25 | 13°R42 | 13° 5 | 21°40 | 0° 3 | 29°44 | 22°30 | 9°31 | T 17 |
| F 18 | 13 46 45 | 28°34'20 | 12°49 | 10°22 | 1°42 | 27°15 | 17°54 | 9°R25 | 13°42 | 13° 5 | 21°42 | 29♌51 | 29°40 | 22°36 | 9°33 | F 18 |
| S 19 | 13 50 42 | 29°33'18 | 24°52 | 10°12 | 2°55 | 28° 2 | 17°57 | 9°25 | 13°42 | 13° 5 | 21°43 | 29°37 | 29°37 | 22°43 | 9°36 | S 19 |
| S 20 | 13 54 38 | 0♌32'15 | 7♌ 3 | 10°D 7 | 4° 8 | 28°48 | 18° 0 | 9°25 | 13°42 | 13° 4 | 21°44 | 29°22 | 29°34 | 22°50 | 9°39 | S 20 |
| M21 | 13 58 35 | 1°31'09 | 19°23 | 10° 8 | 5°22 | 29°35 | 18° 3 | 9°25 | 13°41 | 13° 4 | 21°46 | 29° 9 | 29°31 | 22°56 | 9°42 | M21 |
| T 22 | 14 2 31 | 2°30'01 | 1♌52 | 10°14 | 6°35 | 0°Y22 | 18° 5 | 9°24 | 13°41 | 13° 4 | 21°47 | 28°58 | 29°28 | 23° 3 | 9°45 | T 22 |
| W23 | 14 6 28 | 3°28'52 | 14°32 | 10°25 | 7°49 | 1° 9 | 18° 7 | 9°24 | 13°41 | 13°D 4 | 21°49 | 28°49 | 29°25 | 23°10 | 9°48 | W23 |
| T 24 | 14 10 24 | 4°27'40 | 27°23 | 10°41 | 9° 2 | 1°55 | 18° 9 | 9°23 | 13°41 | 13° 4 | 21°50 | 28°43 | 29°21 | 23°16 | 9°51 | T 24 |
| F 25 | 14 14 21 | 5°26'26 | 10♌27 | 11° 2 | 10°15 | 2°42 | 18°11 | 9°22 | 13°40 | 13° 4 | 21°52 | 28°41 | 29°18 | 23°23 | 9°55 | F 25 |
| S 26 | 14 18 17 | 6°25'09 | 23°47 | 11°27 | 11°29 | 3°29 | 18°13 | 9°22 | 13°40 | 13° 4 | 21°53 | 28°40 | 29°15 | 23°30 | 9°58 | S 26 |
| S 27 | 14 22 14 | 7°23'51 | 7♒23 | 11°56 | 12°42 | 4°15 | 18°15 | 9°21 | 13°39 | 13° 5 | 21°54 | 28°40 | 29°12 | 23°36 | 10° 1 | S 27 |
| M28 | 14 26 11 | 8°22'30 | 21°18 | 12°30 | 13°55 | 5° 2 | 18°16 | 9°20 | 13°39 | 13° 5 | 21°56 | 28°39 | 29° 9 | 23°43 | 10° 5 | M28 |
| T 29 | 14 30 7 | 9°21'07 | 5♎33 | 13° 8 | 15° 9 | 5°48 | 18°17 | 9°19 | 13°38 | 13° 5 | 21°57 | 28°37 | 29° 6 | 23°50 | 10° 8 | T 29 |
| W30 | 14 34 4 | 10♌19'42 | 20♎ 6 | 13°Y49 | 16°Y22 | 6°Y35 | 18♌18 | 9♌18 | 13♌38 | 13♒ 5 | 21°Y59 | 28♌33 | 29♌ 2 | 23♋57 | 10♌12 | W30 |

Delta T = 18m45s

ASTRODIENST EPHEMERIS for the year 2577
geocentric

MAY 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|-------|-------|-------|------|-----|
| T 1 | 14 38 0 | 11♁18'14 | 4♁53 | 14♁34 | 17♁35 | 7♁22 | 18♁19 | 9°R16 | 13°R37 | 13♁ 5 | 22♁ 0 | 28°R26 | 28♁59 | 24♁ 3 | 10♁15 | T 1 | |
| F 2 | 14 41 57 | 12°16'45 | 19°47 | 15°23 | 18°49 | 8° 8 | 18°20 | 9♁15 | 13♁36 | 13° 6 | 22° 1 | 28♁16 | 28°56 | 24°10 | 10°19 | F 2 | |
| S 3 | 14 45 53 | 13°15'13 | 4♁41 | 16°15 | 20° 2 | 8°55 | 18°20 | 9°14 | 13°36 | 13° 6 | 22° 3 | 28° 6 | 28°53 | 24°17 | 10°23 | S 3 | |
| S 4 | 14 49 50 | 14°13'40 | 19°24 | 17°10 | 21°15 | 9°41 | 18°20 | 9°12 | 13°35 | 13° 6 | 22° 4 | 27°55 | 28°50 | 24°23 | 10°27 | S 4 | |
| M 5 | 14 53 46 | 15°12'05 | 3♁50 | 18° 8 | 22°29 | 10°28 | 18°R20 | 9°10 | 13°34 | 13° 7 | 22° 5 | 27°45 | 28°46 | 24°30 | 10°31 | M 5 | |
| T 6 | 14 57 43 | 16°10'28 | 17°52 | 19° 9 | 23°42 | 11°14 | 18°20 | 9° 9 | 13°33 | 13° 7 | 22° 7 | 27°38 | 28°43 | 24°37 | 10°35 | T 6 | |
| W 7 | 15 1 40 | 17° 8'50 | 1♁27 | 20°13 | 24°56 | 12° 0 | 18°20 | 9° 7 | 13°32 | 13° 7 | 22° 8 | 27°33 | 28°40 | 24°43 | 10°38 | W 7 | |
| T 8 | 15 5 36 | 18° 7'10 | 14°35 | 21°19 | 26° 9 | 12°47 | 18°19 | 9° 5 | 13°31 | 13° 8 | 22° 9 | 27°30 | 28°37 | 24°50 | 10°43 | T 8 | |
| F 9 | 15 9 33 | 19° 5'28 | 27°19 | 22°29 | 27°22 | 13°33 | 18°19 | 9° 3 | 13°30 | 13° 8 | 22°11 | 27°D29 | 28°34 | 24°57 | 10°47 | F 9 | |
| S 10 | 15 13 29 | 20° 3'45 | 9♁41 | 23°40 | 28°36 | 14°19 | 18°18 | 9° 1 | 13°29 | 13° 9 | 22°12 | 27°30 | 28°31 | 25° 4 | 10°51 | S 10 | |
| S 11 | 15 17 26 | 21° 2'00 | 21°48 | 24°54 | 29°49 | 15° 6 | 18°17 | 8°59 | 13°28 | 13°10 | 22°13 | 27°R30 | 28°27 | 25°10 | 10°55 | S 11 | |
| M12 | 15 21 22 | 22° 0'14 | 3♁44 | 26°11 | 1♁ 2 | 15°52 | 18°15 | 8°57 | 13°27 | 13°10 | 22°15 | 27°29 | 28°24 | 25°17 | 10°59 | M12 | |
| T 13 | 15 25 19 | 22°58'27 | 15°34 | 27°29 | 2°16 | 16°38 | 18°14 | 8°54 | 13°25 | 13°11 | 22°16 | 27°27 | 28°21 | 25°24 | 11° 4 | T 13 | |
| W14 | 15 29 15 | 23°56'38 | 27°24 | 28°50 | 3°29 | 17°24 | 18°12 | 8°52 | 13°24 | 13°12 | 22°17 | 27°22 | 28°18 | 25°30 | 11° 8 | W14 | |
| T 15 | 15 33 12 | 24°54'47 | 9♁18 | 0♁13 | 4°43 | 18°11 | 18°10 | 8°49 | 13°23 | 13°12 | 22°19 | 27°14 | 28°15 | 25°37 | 11°12 | T 15 | |
| F 16 | 15 37 9 | 25°52'55 | 21°19 | 1°39 | 5°56 | 18°57 | 18° 8 | 8°47 | 13°21 | 13°13 | 22°20 | 27° 5 | 28°12 | 25°44 | 11°17 | F 16 | |
| S 17 | 15 41 5 | 26°51'02 | 3♁30 | 3° 6 | 7° 9 | 19°43 | 18° 6 | 8°44 | 13°20 | 13°14 | 22°21 | 26°54 | 28° 8 | 25°50 | 11°21 | S 17 | |
| S 18 | 15 45 2 | 27°49'07 | 15°53 | 4°36 | 8°23 | 20°29 | 18° 4 | 8°42 | 13°19 | 13°15 | 22°22 | 26°43 | 28° 5 | 25°57 | 11°26 | S 18 | |
| M19 | 15 48 58 | 28°47'10 | 28°27 | 6° 7 | 9°36 | 21°15 | 18° 1 | 8°39 | 13°17 | 13°15 | 22°23 | 26°33 | 28° 2 | 26° 4 | 11°31 | M19 | |
| T 20 | 15 52 55 | 29°45'12 | 11♁14 | 7°41 | 10°50 | 22° 1 | 17°58 | 8°36 | 13°16 | 13°16 | 22°25 | 26°24 | 27°59 | 26°11 | 11°35 | T 20 | |
| W21 | 15 56 51 | 0♁43'13 | 24°13 | 9°17 | 12° 3 | 22°47 | 17°56 | 8°33 | 13°14 | 13°17 | 22°26 | 26°18 | 27°56 | 26°17 | 11°40 | W21 | |
| T 22 | 16 0 48 | 1°41'11 | 7♁23 | 10°55 | 13°16 | 23°33 | 17°52 | 8°30 | 13°13 | 13°18 | 22°27 | 26°14 | 27°52 | 26°24 | 11°45 | T 22 | |
| F 23 | 16 4 44 | 2°39'09 | 20°45 | 12°35 | 14°30 | 24°19 | 17°49 | 8°27 | 13°11 | 13°19 | 22°28 | 26°D12 | 27°49 | 26°31 | 11°50 | F 23 | |
| S 24 | 16 8 41 | 3°37'04 | 4♁18 | 14°17 | 15°43 | 25° 4 | 17°46 | 8°24 | 13° 9 | 13°20 | 22°29 | 26°12 | 27°46 | 26°37 | 11°54 | S 24 | |
| S 25 | 16 12 38 | 4°34'58 | 18° 3 | 16° 1 | 16°57 | 25°50 | 17°42 | 8°20 | 13° 8 | 13°21 | 22°30 | 26°13 | 27°43 | 26°44 | 11°59 | S 25 | |
| M26 | 16 16 34 | 5°32'49 | 1♁59 | 17°47 | 18°10 | 26°36 | 17°38 | 8°17 | 13° 6 | 13°22 | 22°32 | 26°R14 | 27°40 | 26°51 | 12° 4 | M26 | |
| T 27 | 16 20 31 | 6°30'39 | 16° 7 | 19°35 | 19°23 | 27°22 | 17°34 | 8°14 | 13° 4 | 13°23 | 22°33 | 26°14 | 27°37 | 26°57 | 12° 9 | T 27 | |
| W28 | 16 24 27 | 7°28'28 | 0♁26 | 21°25 | 20°37 | 28° 7 | 17°30 | 8°10 | 13° 2 | 13°24 | 22°34 | 26°11 | 27°33 | 27° 4 | 12°14 | W28 | |
| T 29 | 16 28 24 | 8°26'14 | 14°51 | 23°17 | 21°50 | 28°53 | 17°26 | 8° 7 | 13° 0 | 13°25 | 22°35 | 26° 7 | 27°30 | 27°11 | 12°19 | T 29 | |
| F 30 | 16 32 20 | 9°23'59 | 29°21 | 25°12 | 23° 4 | 29°38 | 17°21 | 8° 3 | 12°59 | 13°26 | 22°36 | 26° 2 | 27°27 | 27°18 | 12°24 | F 30 | |
| S 31 | 16 36 17 | 10♁21'43 | 13♁48 | 27♁ 8 | 24♁17 | 0♁24 | 17♁17 | 8♁ 0 | 12♁57 | 13♁28 | 22♁37 | 25♁55 | 27♁24 | 27♁24 | 12♁29 | S 31 | |

Delta T = 18m45s

JUNE 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 16 40 13 | 11♁19'25 | 28♁ 7 | 29♁ 6 | 25♁30 | 1♁ 9 | 17°R12 | 7°R56 | 12°R55 | 13♁29 | 22♁38 | 25°R48 | 27♁21 | 27♁31 | 12♁34 | S 1 | |
| M 2 | 16 44 10 | 12°17'05 | 12♁13 | 1♁ 6 | 26°44 | 1°55 | 17° 7 | 7♁52 | 12♁53 | 13°30 | 22°39 | 25♁41 | 27°18 | 27°38 | 12°40 | M 2 | |
| T 3 | 16 48 7 | 13°14'45 | 26° 0 | 3° 8 | 27°57 | 2°40 | 17° 2 | 7°48 | 12°51 | 13°31 | 22°40 | 25°37 | 27°14 | 27°44 | 12°45 | T 3 | |
| W 4 | 16 52 3 | 14°12'23 | 9♁25 | 5°12 | 29°11 | 3°26 | 16°57 | 7°45 | 12°49 | 13°33 | 22°41 | 25°34 | 27°11 | 27°51 | 12°50 | W 4 | |
| T 5 | 16 56 0 | 15°10'01 | 22°29 | 7°18 | 0♁24 | 4°11 | 16°51 | 7°41 | 12°47 | 13°34 | 22°42 | 25°D32 | 27° 8 | 27°58 | 12°55 | T 5 | |
| F 6 | 16 59 56 | 16° 7'37 | 5♁11 | 9°25 | 1°37 | 4°56 | 16°46 | 7°37 | 12°45 | 13°35 | 22°43 | 25°33 | 27° 5 | 28° 5 | 13° 1 | F 6 | |
| S 7 | 17 3 53 | 17° 5'12 | 17°35 | 11°33 | 2°51 | 5°41 | 16°40 | 7°33 | 12°43 | 13°37 | 22°44 | 25°34 | 27° 2 | 28°11 | 13° 6 | S 7 | |
| S 8 | 17 7 49 | 18° 2'47 | 29°44 | 13°43 | 4° 4 | 6°27 | 16°35 | 7°29 | 12°40 | 13°38 | 22°45 | 25°36 | 26°58 | 28°18 | 13°11 | S 8 | |
| M 9 | 17 11 46 | 19° 0'20 | 11♁42 | 15°53 | 5°18 | 7°12 | 16°29 | 7°25 | 12°38 | 13°40 | 22°46 | 25°37 | 26°55 | 28°25 | 13°17 | M 9 | |
| T 10 | 17 15 42 | 19°57'53 | 23°35 | 18° 5 | 6°31 | 7°57 | 16°23 | 7°21 | 12°36 | 13°41 | 22°47 | 25°R37 | 26°52 | 28°31 | 13°22 | T 10 | |
| W11 | 17 19 39 | 20°55'25 | 5♁27 | 20°17 | 7°44 | 8°42 | 16°17 | 7°17 | 12°34 | 13°42 | 22°47 | 25°36 | 26°49 | 28°38 | 13°28 | W11 | |
| T 12 | 17 23 36 | 21°52'56 | 17°24 | 22°29 | 8°58 | 9°27 | 16°10 | 7°12 | 12°32 | 13°44 | 22°48 | 25°33 | 26°46 | 28°45 | 13°33 | T 12 | |
| F 13 | 17 27 32 | 22°50'26 | 29°28 | 24°41 | 10°11 | 10°12 | 16° 4 | 7° 8 | 12°29 | 13°45 | 22°49 | 25°29 | 26°43 | 28°51 | 13°39 | F 13 | |
| S 14 | 17 31 29 | 23°47'55 | 11♁45 | 26°53 | 11°25 | 10°56 | 15°57 | 7° 4 | 12°27 | 13°47 | 22°50 | 25°25 | 26°39 | 28°58 | 13°44 | S 14 | |
| S 15 | 17 35 25 | 24°45'24 | 24°16 | 29° 4 | 12°38 | 11°41 | 15°51 | 7° 0 | 12°25 | 13°49 | 22°51 | 25°19 | 26°36 | 29° 5 | 13°50 | S 15 | |
| M16 | 17 39 22 | 25°42'53 | 7♁ 3 | 1♁15 | 13°52 | 12°26 | 15°44 | 6°56 | 12°23 | 13°50 | 22°51 | 25°15 | 26°33 | 29°12 | 13°55 | M16 | |
| T 17 | 17 43 18 | 26°40'20 | 20° 7 | 3°24 | 15° 5 | 13°11 | 15°37 | 6°51 | 12°20 | 13°52 | 22°52 | 25°11 | 26°30 | 29°18 | 14° 1 | T 17 | |
| W18 | 17 47 15 | 27°37'47 | 3♁26 | 5°32 | 16°19 | 13°55 | 15°30 | 6°47 | 12°18 | 13°53 | 22°53 | 25° 8 | 26°27 | 29°25 | 14° 7 | W18 | |
| T 19 | 17 51 12 | 28°35'12 | 17° 0 | 7°39 | 17°32 | 14°40 | 15°23 | 6°43 | 12°16 | 13°55 | 22°54 | 25° 6 | 26°24 | 29°32 | 14°12 | T 19 | |
| F 20 | 17 55 8 | 29°32'37 | 0♁47 | 9°44 | 18°46 | 15°24 | 15°16 | 6°38 | 12°13 | 13°57 | 22°54 | 25°D 6 | 26°20 | 29°38 | 14°18 | F 20 | |
| S 21 | 17 59 5 | 0♁30'01 | 14°43 | 11°47 | 19°59 | 16° 9 | 15° 9 | 6°34 | 12°11 | 13°59 | 22°55 | 25° 7 | 26°17 | 29°45 | 14°24 | S 21 | |
| S 22 | 18 3 1 | 1°27'24 | 28°47 | 13°48 | 21°13 | 16°53 | 15° 2 | 6°29 | 12° 9 | 14° 0 | 22°56 | 25° 8 | 26°14 | 29°52 | 14°29 | S 22 | |
| M23 | 18 6 58 | 2°24'46 | 12♁57 | 15°47 | 22°26 | 17°38 | 14°55 | 6°25 | 12° 6 | 14° 2 | 22°56 | 25°10 | 26°11 | 29°59 | 14°35 | M23 | |
| T 24 | 18 10 54 | 3°22'07 | 27° 9 | 17°44 | 23°40 | 18°22 | 14°47 | 6°21 | 12° 4 | 14° 4 | 22°57 | 25°R11 | 26° 8 | 0♁ 5 | 14°41 | T 24 | |
| W25 | 18 14 51 | 4°19'27 | 11♁23 | 19°39 | 24°53 | 19° 6 | 14°40 | 6°16 | 12° 1 | 14° 6 | 22°58 | 25°10 | 26° 4 | 0°12 | 14°46 | W25 | |
| T 26 | 18 18 47 | 5°16'46 | 25°35 | 21°31 | 26° 7 | 19°50 | 14°33 | 6°12 | 11°59 | 14° 7 | 22°58 | 25°10 | 26° 1 | 0°19 | 14°52 | T 26 | |
| F 27 | 18 22 44 | 6°14'04 | 9♁43 | 23°21 | 27°20 | 20°34 | 14°25 | 6° 7 | 11°57 | 14° 9 | 22°59 | 25° 8 | 25°58 | 0°25 | 14°58 | F 27 | |
| S 28 | 18 26 41 | 7°11'22 | 23°44 | 25° 9 | 28°34 | 21°18 | 14°18 | 6° 3 | 11°54 | 14°11 | 22°59 | 25° 6 | 25°55 | 0°32 | 15° 4 | S 28 | |
| S 29 | 18 30 37 | 8° 8'38 | 7♁35 | 26°55 | 29°47 | 22° 2 | 14°10 | 5°58 | 11°52 | 14°13 | 23° 0 | 25° 3 | 25°52 | 0°39 | 15°10 | S 29 | |
| M30 | 18 34 34 | 9♁ 5'54 | 21♁14 | 28♁38 | 1♁ 1 | 22♁46 | 14♁ 2 | 5♁54 | 11♁49 | 14♁15 | 23♁ 0 | 25♁ 1 | 25♁49 | 0♁46 | 15♁15 | M30 | |

Delta T = 18m46s

ASTRODIENST EPHEMERIS for the year 2577
geocentric

JULY 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|--------|-------|--------|--------|-------|------|-------|------|-----|
| T 1 | 18 38 30 | 10♄ 3'10 | 4♃38 | 0♈19 | 2♄15 | 23♄30 | 13°R55 | 5°R50 | 11°R47 | 14♈17 | 23♄1 | 25°R 0 | 25♄45 | 0♄52 | 15♄21 | T 1 | |
| W 2 | 18 42 27 | 11° 0'25 | 17°45 | 1°57 | 3°28 | 24°14 | 13♄47 | 5♄45 | 11♄44 | 14°19 | 23° 1 | 24♄59 | 25°42 | 0°59 | 15°27 | W 2 | |
| T 3 | 18 46 23 | 11°57'40 | 0♄36 | 3°33 | 4°42 | 24°57 | 13°39 | 5°41 | 11°42 | 14°20 | 23° 2 | 24°D59 | 25°39 | 1° 6 | 15°33 | T 3 | |
| F 4 | 18 50 20 | 12°54'55 | 13°11 | 5° 7 | 5°55 | 25°41 | 13°32 | 5°36 | 11°39 | 14°22 | 23° 2 | 25° 0 | 25°36 | 1°12 | 15°39 | F 4 | |
| S 5 | 18 54 16 | 13°52'09 | 25°31 | 6°38 | 7° 9 | 26°25 | 13°24 | 5°32 | 11°37 | 14°24 | 23° 2 | 25° 0 | 25°33 | 1°19 | 15°44 | S 5 | |
| S 6 | 18 58 13 | 14°49'23 | 7♃38 | 8° 7 | 8°22 | 27° 8 | 13°16 | 5°28 | 11°35 | 14°26 | 23° 3 | 25° 1 | 25°30 | 1°26 | 15°50 | S 6 | |
| M 7 | 19 2 10 | 15°46'37 | 19°37 | 9°33 | 9°36 | 27°52 | 13° 9 | 5°23 | 11°32 | 14°28 | 23° 3 | 25° 2 | 25°26 | 1°33 | 15°56 | M 7 | |
| T 8 | 19 6 6 | 16°43'51 | 1♄30 | 10°57 | 10°50 | 28°35 | 13° 1 | 5°19 | 11°30 | 14°30 | 23° 4 | 25° 3 | 25°23 | 1°39 | 16° 2 | T 8 | |
| W 9 | 19 10 3 | 17°41'05 | 13°23 | 12°19 | 12° 3 | 29°18 | 12°53 | 5°15 | 11°27 | 14°32 | 23° 4 | 25°R 3 | 25°20 | 1°46 | 16° 8 | W 9 | |
| T 10 | 19 13 59 | 18°38'19 | 25°20 | 13°37 | 13°17 | 0♈ 2 | 12°46 | 5°11 | 11°25 | 14°34 | 23° 4 | 25° 3 | 25°17 | 1°53 | 16°14 | T 10 | |
| F 11 | 19 17 56 | 19°35'33 | 7♃26 | 14°54 | 14°31 | 0°45 | 12°38 | 5° 6 | 11°22 | 14°36 | 23° 4 | 25° 3 | 25°14 | 1°59 | 16°19 | F 11 | |
| S 12 | 19 21 52 | 20°32'48 | 19°44 | 16° 7 | 15°44 | 1°28 | 12°31 | 5° 2 | 11°20 | 14°38 | 23° 5 | 25° 3 | 25°10 | 2° 6 | 16°25 | S 12 | |
| S 13 | 19 25 49 | 21°30'02 | 2♈19 | 17°18 | 16°58 | 2°11 | 12°23 | 4°58 | 11°18 | 14°41 | 23° 5 | 25° 2 | 25° 7 | 2°13 | 16°31 | S 13 | |
| M14 | 19 29 45 | 22°27'17 | 15°13 | 18°26 | 18°12 | 2°54 | 12°16 | 4°54 | 11°15 | 14°43 | 23° 5 | 25° 2 | 25° 4 | 2°19 | 16°37 | M14 | |
| T 15 | 19 33 42 | 23°24'32 | 28°28 | 19°32 | 19°26 | 3°37 | 12° 8 | 4°50 | 11°13 | 14°45 | 23° 5 | 25° 2 | 25° 1 | 2°26 | 16°43 | T 15 | |
| W16 | 19 37 39 | 24°21'47 | 12♄ 4 | 20°34 | 20°39 | 4°20 | 12° 1 | 4°46 | 11°11 | 14°47 | 23° 5 | 25° 1 | 24°58 | 2°33 | 16°48 | W16 | |
| T 17 | 19 41 35 | 25°19'03 | 25°59 | 21°33 | 21°53 | 5° 2 | 11°53 | 4°42 | 11° 8 | 14°49 | 23° 6 | 25° 1 | 24°55 | 2°40 | 16°54 | T 17 | |
| F 18 | 19 45 32 | 26°16'18 | 10♈11 | 22°29 | 23° 7 | 5°45 | 11°46 | 4°38 | 11° 6 | 14°51 | 23° 6 | 25° 1 | 24°51 | 2°46 | 17° 0 | F 18 | |
| S 19 | 19 49 28 | 27°13'33 | 24°35 | 23°22 | 24°21 | 6°28 | 11°39 | 4°34 | 11° 4 | 14°53 | 23° 6 | 25° 1 | 24°48 | 2°53 | 17° 6 | S 19 | |
| S 20 | 19 53 25 | 28°10'48 | 9♄ 5 | 24°12 | 25°34 | 7°10 | 11°32 | 4°30 | 11° 1 | 14°55 | 23° 6 | 25° 1 | 24°45 | 3° 0 | 17°12 | S 20 | |
| M21 | 19 57 21 | 29° 8'04 | 23°36 | 24°58 | 26°48 | 7°53 | 11°25 | 4°26 | 10°59 | 14°57 | 23° 6 | 25° 1 | 24°42 | 3° 6 | 17°17 | M21 | |
| T 22 | 20 1 18 | 0♈ 5'19 | 8♄ 4 | 25°41 | 28° 2 | 8°35 | 11°18 | 4°22 | 10°57 | 15° 0 | 23° 6 | 25° 0 | 24°39 | 3°13 | 17°23 | T 22 | |
| W23 | 20 5 14 | 1° 2'34 | 22°23 | 26°19 | 29°16 | 9°17 | 11°11 | 4°19 | 10°54 | 15° 2 | 23°R 6 | 25° 0 | 24°35 | 3°20 | 17°29 | W23 | |
| T 24 | 20 9 11 | 1°59'49 | 6♈29 | 26°54 | 0♈29 | 9°59 | 11° 4 | 4°15 | 10°52 | 15° 4 | 23° 6 | 25°D 0 | 24°32 | 3°27 | 17°35 | T 24 | |
| F 25 | 20 13 8 | 2°57'04 | 20°28 | 27°25 | 1°43 | 10°42 | 10°57 | 4°11 | 10°50 | 15° 6 | 23° 6 | 25° 0 | 24°29 | 3°33 | 17°40 | F 25 | |
| S 26 | 20 17 4 | 3°54'19 | 4♃ 9 | 27°52 | 2°57 | 11°24 | 10°51 | 4° 8 | 10°48 | 15° 8 | 23° 6 | 25° 1 | 24°26 | 3°40 | 17°46 | S 26 | |
| S 27 | 20 21 1 | 4°51'35 | 17°37 | 28°14 | 4°11 | 12° 6 | 10°44 | 4° 4 | 10°46 | 15°11 | 23° 6 | 25° 2 | 24°23 | 3°47 | 17°52 | S 27 | |
| M28 | 20 24 57 | 5°48'50 | 0♄30 | 28°31 | 5°25 | 12°47 | 10°38 | 4° 1 | 10°43 | 15°13 | 23° 6 | 25° 3 | 24°20 | 3°53 | 17°57 | M28 | |
| T 29 | 20 28 54 | 6°46'06 | 13°50 | 28°45 | 6°39 | 13°29 | 10°32 | 3°58 | 10°41 | 15°15 | 23° 5 | 25° 3 | 24°16 | 4° 0 | 18° 3 | T 29 | |
| W30 | 20 32 50 | 7°43'22 | 26°37 | 28°53 | 7°53 | 14°11 | 10°26 | 3°54 | 10°39 | 15°17 | 23° 5 | 25°R 3 | 24°13 | 4° 7 | 18° 9 | W30 | |
| T 31 | 20 36 47 | 8♈40'39 | 9♄11 | 28°R56 | 9♈ 6 | 14♈53 | 10♄20 | 3♄51 | 10♄37 | 15♈19 | 23♄5 | 25♄3 | 24♄10 | 4♄14 | 18♄14 | T 31 | |

Delta T = 18m46s

AUGUST 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|--------|-------|--------|--------|-------|------|-------|------|-----|
| F 1 | 20 40 43 | 9♈37'56 | 21♄33 | 28°R55 | 10♈20 | 15♈34 | 10°R14 | 3°R48 | 10°R35 | 15♈22 | 23°R 5 | 25°R 2 | 24♄ 7 | 4♄20 | 18♄20 | F 1 | |
| S 2 | 20 44 40 | 10°35'13 | 3♃45 | 28♈48 | 11°34 | 16°16 | 10♄ 8 | 3♄45 | 10♄33 | 15°24 | 23♄5 | 25° 0 | 24° 4 | 4°27 | 18°26 | S 2 | |
| S 3 | 20 48 37 | 11°32'31 | 15°48 | 28°37 | 12°48 | 16°57 | 10° 3 | 3°42 | 10°31 | 15°26 | 23° 5 | 24°58 | 24° 1 | 4°34 | 18°31 | S 3 | |
| M 4 | 20 52 33 | 12°29'50 | 27°44 | 28°21 | 14° 2 | 17°38 | 9°57 | 3°39 | 10°29 | 15°28 | 23° 4 | 24°55 | 23°57 | 4°40 | 18°37 | M 4 | |
| T 5 | 20 56 30 | 13°27'10 | 9♄37 | 27°59 | 15°16 | 18°20 | 9°52 | 3°36 | 10°27 | 15°30 | 23° 4 | 24°53 | 23°54 | 4°47 | 18°42 | T 5 | |
| W 6 | 21 0 26 | 14°24'31 | 21°29 | 27°33 | 16°30 | 19° 1 | 9°47 | 3°33 | 10°25 | 15°33 | 23° 4 | 24°50 | 23°51 | 4°54 | 18°48 | W 6 | |
| T 7 | 21 4 23 | 15°21'52 | 3♄25 | 27° 3 | 17°44 | 19°42 | 9°42 | 3°30 | 10°24 | 15°35 | 23° 3 | 24°49 | 23°48 | 5° 1 | 18°53 | T 7 | |
| F 8 | 21 8 19 | 16°19'15 | 15°29 | 26°29 | 18°58 | 20°23 | 9°37 | 3°28 | 10°22 | 15°37 | 23° 3 | 24°D48 | 23°45 | 5° 7 | 18°59 | F 8 | |
| S 9 | 21 12 16 | 17°16'39 | 27°45 | 25°51 | 20°12 | 21° 4 | 9°32 | 3°25 | 10°20 | 15°39 | 23° 3 | 24°49 | 23°41 | 5°14 | 19° 4 | S 9 | |
| S 10 | 21 16 12 | 18°14'04 | 10♈18 | 25°10 | 21°26 | 21°44 | 9°27 | 3°23 | 10°18 | 15°42 | 23° 2 | 24°50 | 23°38 | 5°21 | 19° 9 | S 10 | |
| M11 | 21 20 9 | 19°11'30 | 23°12 | 24°27 | 22°40 | 22°25 | 9°23 | 3°20 | 10°16 | 15°44 | 23° 2 | 24°51 | 23°35 | 5°27 | 19°15 | M11 | |
| T 12 | 21 24 6 | 20° 8'57 | 6♄30 | 23°42 | 23°54 | 23° 6 | 9°19 | 3°18 | 10°15 | 15°46 | 23° 2 | 24°53 | 23°32 | 5°34 | 19°20 | T 12 | |
| W13 | 21 28 2 | 21° 6'25 | 20°13 | 22°56 | 25° 8 | 23°46 | 9°15 | 3°16 | 10°13 | 15°48 | 23° 1 | 24°R54 | 23°29 | 5°41 | 19°25 | W13 | |
| T 14 | 21 31 59 | 22° 3'54 | 4♈22 | 22° 9 | 26°22 | 24°27 | 9°11 | 3°13 | 10°11 | 15°50 | 23° 1 | 24°53 | 23°26 | 5°48 | 19°31 | T 14 | |
| F 15 | 21 35 55 | 23° 1'24 | 18°52 | 21°24 | 27°36 | 25° 7 | 9° 7 | 3°11 | 10°10 | 15°53 | 23° 0 | 24°52 | 23°22 | 5°54 | 19°36 | F 15 | |
| S 16 | 21 39 52 | 23°58'55 | 3♄39 | 20°40 | 28°50 | 25°47 | 9° 4 | 3° 9 | 10° 8 | 15°55 | 23° 0 | 24°49 | 23°19 | 6° 1 | 19°41 | S 16 | |
| S 17 | 21 43 48 | 24°56'27 | 18°35 | 19°58 | 0♄ 4 | 26°28 | 9° 0 | 3° 7 | 10° 7 | 15°57 | 22°59 | 24°45 | 23°16 | 6° 8 | 19°46 | S 17 | |
| M18 | 21 47 45 | 25°54'00 | 3♄31 | 19°20 | 1°18 | 27° 8 | 8°57 | 3° 6 | 10° 5 | 15°59 | 22°59 | 24°41 | 23°13 | 6°15 | 19°51 | M18 | |
| T 19 | 21 51 41 | 26°51'34 | 18°20 | 18°45 | 2°33 | 27°48 | 8°54 | 3° 4 | 10° 4 | 16° 1 | 22°58 | 24°37 | 23°10 | 6°21 | 19°56 | T 19 | |
| W20 | 21 55 38 | 27°49'08 | 2♈54 | 18°16 | 3°47 | 28°27 | 8°51 | 3° 2 | 10° 3 | 16° 4 | 22°57 | 24°34 | 23° 7 | 6°28 | 20° 1 | W20 | |
| T 21 | 21 59 35 | 28°46'44 | 17° 9 | 17°51 | 5° 1 | 29° 7 | 8°48 | 3° 1 | 10° 1 | 16° 6 | 22°57 | 24°32 | 23° 3 | 6°35 | 20° 6 | T 21 | |
| F 22 | 22 3 31 | 29°44'20 | 1♃ 3 | 17°33 | 6°15 | 29°47 | 8°46 | 2°59 | 10° 0 | 16° 8 | 22°56 | 24°D31 | 23° 0 | 6°41 | 20°11 | F 22 | |
| S 23 | 22 7 28 | 0♄41'57 | 14°35 | 17°21 | 7°29 | 0♄26 | 8°43 | 2°58 | 9°59 | 16°10 | 22°56 | 24°32 | 22°57 | 6°48 | 20°16 | S 23 | |
| S 24 | 22 11 24 | 1°39'36 | 27°48 | 17°D16 | 8°43 | 1° 6 | 8°41 | 2°57 | 9°57 | 16°12 | 22°55 | 24°33 | 22°54 | 6°55 | 20°21 | S 24 | |
| M25 | 22 15 21 | 2°37'15 | 10♄44 | 17°18 | 9°57 | 1°45 | 8°39 | 2°55 | 9°56 | 16°15 | 22°54 | 24°35 | 22°51 | 7° 2 | 20°26 | M25 | |
| T 26 | 22 19 17 | 3°34'55 | 23°24 | 17°27 | 11°11 | 2°24 | 8°38 | 2°54 | 9°55 | 16°17 | 22°54 | 24°R35 | 22°47 | 7° 8 | 20°31 | T 26 | |
| W27 | 22 23 14 | 4°32'36 | 5♄52 | 17°43 | 12°25 | 3° 4 | 8°36 | 2°53 | 9°54 | 16°19 | 22°53 | 24°35 | 22°44 | 7°15 | 20°36 | W27 | |
| T 28 | 22 27 10 | 5°30'18 | 18°11 | 18° 7 | 13°40 | 3°43 | 8°35 | 2°52 | 9°53 | 16°21 | 22°52 | 24°32 | 22°41 | 7°22 | 20°40 | T 28 | |
| F 29 | 22 31 7 | 6°28'01 | 0♃20 | 18°39 | 14°54 | 4°22 | 8°33 | 2°52 | 9°52 | 16°23 | 22°52 | 24°28 | 22°38 | 7°28 | 20°45 | F 29 | |
| S 30 | 22 35 4 | 7°25'46 | 12°23 | 19°18 | 16° 8 | 5° 0 | 8°32 | 2°51 | 9°51 | 16°25 | 22°51 | 24°22 | 22°35 | 7°35 | 20°50 | S 30 | |
| S 31 | 22 39 0 | 8♄23'32 | 24♃21 | 20♈ 4 | 17♄22 | 5♄39 | 8♄31 | 2♄50 | 9♄50 | 16♄27 | 22♄50 | 24♄14 | 22♄32 | 7♄42 | 20♄54 | S 31 | |

Delta T = 18m46s

ASTRODIENST EPHEMERIS for the year 2577
geocentric

SEPTEMBER 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|---|---|------|
| M 1 | 22 42 57 | 9♎21'20 | 6♏14 | 20♌57 | 18♎36 | 6♁18 | 8°R31 | 2°R50 | 9°R49 | 16♌29 | 22°R49 | 24°R 5 | 22♁28 | 7♏49 | 20♁59 | | | M 1 |
| T 2 | 22 46 53 | 10°19'09 | 18° 6 | 21°57 | 19°50 | 6°56 | 8♁30 | 2♁49 | 9♁49 | 16°31 | 22°Y48 | 23♁57 | 22°25 | 7°55 | 21° 3 | | | T 2 |
| W 3 | 22 50 50 | 11°16'59 | 29°58 | 23° 4 | 21° 5 | 7°35 | 8°30 | 2°49 | 9°48 | 16°33 | 22°48 | 23°49 | 22°22 | 8° 2 | 21° 8 | | | W 3 |
| T 4 | 22 54 46 | 12°14'52 | 11♌54 | 24°17 | 22°19 | 8°13 | 8°D30 | 2°49 | 9°47 | 16°36 | 22°47 | 23°43 | 22°19 | 8° 9 | 21°12 | | | T 4 |
| F 5 | 22 58 43 | 13°12'46 | 23°56 | 25°36 | 23°33 | 8°51 | 8°30 | 2°49 | 9°46 | 16°38 | 22°46 | 23°39 | 22°16 | 8°15 | 21°16 | | | F 5 |
| S 6 | 23 2 39 | 14°10'42 | 6♐10 | 27° 0 | 24°47 | 9°29 | 8°30 | 2°D49 | 9°46 | 16°40 | 22°45 | 23°37 | 22°13 | 8°22 | 21°20 | | | S 6 |
| S 7 | 23 6 36 | 15° 8'39 | 18°39 | 28°30 | 26° 1 | 10° 7 | 8°31 | 2°49 | 9°45 | 16°42 | 22°44 | 23°D37 | 22° 9 | 8°29 | 21°25 | | | S 7 |
| M 8 | 23 10 32 | 16° 6'39 | 1♁28 | 0♎ 4 | 27°16 | 10°45 | 8°31 | 2°49 | 9°45 | 16°44 | 22°43 | 23°38 | 22° 6 | 8°36 | 21°29 | | | M 8 |
| T 9 | 23 14 29 | 17° 4'40 | 14°41 | 1°42 | 28°30 | 11°23 | 8°32 | 2°49 | 9°44 | 16°46 | 22°42 | 23°39 | 22° 3 | 8°42 | 21°33 | | | T 9 |
| W10 | 23 18 26 | 18° 2'44 | 28°22 | 3°24 | 29°44 | 12° 0 | 8°33 | 2°49 | 9°44 | 16°48 | 22°42 | 23°R39 | 22° 0 | 8°49 | 21°37 | | | W10 |
| T 11 | 23 22 22 | 19° 0'49 | 12♌31 | 5° 9 | 0♌58 | 12°38 | 8°35 | 2°50 | 9°43 | 16°50 | 22°41 | 23°37 | 21°57 | 8°56 | 21°41 | | | T 11 |
| F 12 | 23 26 19 | 19°58'55 | 27° 6 | 6°57 | 2°12 | 13°15 | 8°36 | 2°50 | 9°43 | 16°51 | 22°40 | 23°34 | 21°53 | 9° 2 | 21°45 | | | F 12 |
| S 13 | 23 30 15 | 20°57'04 | 12♎ 5 | 8°47 | 3°27 | 13°52 | 8°38 | 2°51 | 9°43 | 16°53 | 22°39 | 23°28 | 21°50 | 9° 9 | 21°49 | | | S 13 |
| S 14 | 23 34 12 | 21°55'14 | 27°17 | 10°39 | 4°41 | 14°29 | 8°39 | 2°52 | 9°43 | 16°55 | 22°38 | 23°20 | 21°47 | 9°16 | 21°53 | | | S 14 |
| M15 | 23 38 8 | 22°53'26 | 12♁32 | 12°32 | 5°55 | 15° 6 | 8°41 | 2°53 | 9°42 | 16°57 | 22°37 | 23°11 | 21°44 | 9°23 | 21°56 | | | M15 |
| T 16 | 23 42 5 | 23°51'39 | 27°40 | 14°26 | 7° 9 | 15°43 | 8°44 | 2°54 | 9°42 | 16°59 | 22°36 | 23° 2 | 21°41 | 9°29 | 22° 0 | | | T 16 |
| W17 | 23 46 1 | 24°49'54 | 12♎31 | 16°21 | 8°24 | 16°20 | 8°46 | 2°55 | 9°42 | 17° 1 | 22°35 | 22°55 | 21°38 | 9°36 | 22° 4 | | | W17 |
| T 18 | 23 49 58 | 25°48'11 | 26°59 | 18°16 | 9°38 | 16°56 | 8°48 | 2°56 | 9°D42 | 17° 3 | 22°34 | 22°49 | 21°34 | 9°43 | 22° 7 | | | T 18 |
| F 19 | 23 53 55 | 26°46'29 | 10♌59 | 20°11 | 10°52 | 17°33 | 8°51 | 2°57 | 9°42 | 17° 5 | 22°33 | 22°46 | 21°31 | 9°49 | 22°11 | | | F 19 |
| S 20 | 23 57 51 | 27°44'49 | 24°33 | 22° 6 | 12° 6 | 18° 9 | 8°54 | 2°58 | 9°42 | 17° 6 | 22°32 | 22°D45 | 21°28 | 9°56 | 22°14 | | | S 20 |
| S 21 | 0 1 48 | 28°43'10 | 7♁41 | 24° 1 | 13°21 | 18°45 | 8°57 | 3° 0 | 9°42 | 17° 8 | 22°31 | 22°45 | 21°25 | 10° 3 | 22°18 | | | S 21 |
| M22 | 0 5 44 | 29°41'32 | 20°28 | 25°55 | 14°35 | 19°21 | 9° 0 | 3° 1 | 9°43 | 17°10 | 22°30 | 22°R46 | 21°22 | 10°10 | 22°21 | | | M22 |
| T 23 | 0 9 41 | 0♌39'57 | 2♁58 | 27°49 | 15°49 | 19°57 | 9° 4 | 3° 3 | 9°43 | 17°12 | 22°29 | 22°45 | 21°18 | 10°16 | 22°24 | | | T 23 |
| W24 | 0 13 37 | 1°38'22 | 15°15 | 29°41 | 17° 3 | 20°33 | 9° 7 | 3° 4 | 9°43 | 17°13 | 22°28 | 22°43 | 21°15 | 10°23 | 22°27 | | | W24 |
| T 25 | 0 17 34 | 2°36'50 | 27°21 | 1♌34 | 18°17 | 21° 8 | 9°11 | 3° 6 | 9°44 | 17°15 | 22°26 | 22°38 | 21°12 | 10°30 | 22°30 | | | T 25 |
| F 26 | 0 21 30 | 3°35'18 | 9♁21 | 3°25 | 19°32 | 21°44 | 9°15 | 3° 8 | 9°44 | 17°17 | 22°25 | 22°31 | 21° 9 | 10°37 | 22°33 | | | F 26 |
| S 27 | 0 25 27 | 4°33'49 | 21°17 | 5°15 | 20°46 | 22°19 | 9°19 | 3°10 | 9°44 | 17°18 | 22°24 | 22°20 | 21° 6 | 10°43 | 22°36 | | | S 27 |
| S 28 | 0 29 24 | 5°32'22 | 3♏11 | 7° 5 | 22° 0 | 22°54 | 9°24 | 3°12 | 9°45 | 17°20 | 22°23 | 22° 8 | 21° 3 | 10°50 | 22°39 | | | S 28 |
| M29 | 0 33 20 | 6°30'56 | 15° 3 | 8°53 | 23°14 | 23°29 | 9°28 | 3°14 | 9°45 | 17°22 | 22°22 | 21°54 | 20°59 | 10°57 | 22°42 | | | M29 |
| T 30 | 0 37 17 | 7♁29'32 | 26♏56 | 10♌41 | 24♁29 | 24♁ 4 | 9♁33 | 3♁17 | 9♁46 | 17♌23 | 22°Y21 | 21♁41 | 20♁56 | 11°Y 3 | 22♁45 | | | T 30 |

Delta T = 18m46s

OCTOBER 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|-------|--------|--------|-------|--------|-------|---|---|------|
| W 1 | 0 41 13 | 8♁28'11 | 8♏51 | 12♁27 | 25♁43 | 24♁39 | 9♁38 | 3♁19 | 9♁47 | 17♌25 | 22°R20 | 21°R29 | 20♁53 | 11°Y10 | 22♁47 | | | W 1 |
| T 2 | 0 45 10 | 9°26'51 | 20°50 | 14°13 | 26°57 | 25°13 | 9°43 | 3°21 | 9°47 | 17°26 | 22°Y19 | 21♁18 | 20°50 | 11°17 | 22°50 | | | T 2 |
| F 3 | 0 49 6 | 10°25'34 | 2♐55 | 15°58 | 28°11 | 25°48 | 9°48 | 3°24 | 9°48 | 17°28 | 22°18 | 21°10 | 20°47 | 11°24 | 22°53 | | | F 3 |
| S 4 | 0 53 3 | 11°24'19 | 15° 9 | 17°41 | 29°25 | 26°22 | 9°53 | 3°27 | 9°49 | 17°29 | 22°16 | 21° 5 | 20°44 | 11°30 | 22°55 | | | S 4 |
| S 5 | 0 56 59 | 12°23'06 | 27°37 | 19°24 | 0♎40 | 26°56 | 9°59 | 3°29 | 9°50 | 17°31 | 22°15 | 21° 3 | 20°40 | 11°37 | 22°57 | | | S 5 |
| M 6 | 1 0 56 | 13°21'55 | 10♁22 | 21° 6 | 1°54 | 27°30 | 10° 4 | 3°32 | 9°51 | 17°32 | 22°14 | 21° 2 | 20°37 | 11°44 | 23° 0 | | | M 6 |
| T 7 | 1 4 53 | 14°20'46 | 23°28 | 22°47 | 3° 8 | 28° 3 | 10°10 | 3°35 | 9°52 | 17°33 | 22°13 | 21° 2 | 20°34 | 11°50 | 23° 2 | | | T 7 |
| W 8 | 1 8 49 | 15°19'40 | 7♌ 0 | 24°27 | 4°22 | 28°37 | 10°16 | 3°38 | 9°53 | 17°35 | 22°12 | 21° 2 | 20°31 | 11°57 | 23° 4 | | | W 8 |
| T 9 | 1 12 46 | 16°18'36 | 21° 0 | 26° 6 | 5°36 | 29°10 | 10°22 | 3°41 | 9°54 | 17°36 | 22°11 | 20°59 | 20°28 | 12° 4 | 23° 6 | | | T 9 |
| F 10 | 1 16 42 | 17°17'34 | 5♎29 | 27°44 | 6°51 | 29°44 | 10°28 | 3°44 | 9°55 | 17°37 | 22°10 | 20°55 | 20°24 | 12°11 | 23° 8 | | | F 10 |
| S 11 | 1 20 39 | 18°16'35 | 20°22 | 29°21 | 8° 5 | 0♌16 | 10°35 | 3°47 | 9°56 | 17°39 | 22° 8 | 20°47 | 20°21 | 12°17 | 23°10 | | | S 11 |
| S 12 | 1 24 35 | 19°15'37 | 5♁33 | 0♎58 | 9°19 | 0°49 | 10°41 | 3°51 | 9°57 | 17°40 | 22° 7 | 20°37 | 20°18 | 12°24 | 23°12 | | | S 12 |
| M13 | 1 28 32 | 20°14'42 | 20°53 | 2°33 | 10°33 | 1°22 | 10°48 | 3°54 | 9°58 | 17°41 | 22° 6 | 20°26 | 20°15 | 12°31 | 23°14 | | | M13 |
| T 14 | 1 32 28 | 21°13'49 | 6♎10 | 4° 8 | 11°47 | 1°54 | 10°55 | 3°58 | 10° 0 | 17°43 | 22° 5 | 20°15 | 20°12 | 12°38 | 23°15 | | | T 14 |
| W15 | 1 36 25 | 22°12'57 | 21°12 | 5°42 | 13° 2 | 2°26 | 11° 2 | 4° 1 | 10° 1 | 17°44 | 22° 4 | 20° 5 | 20° 9 | 12°44 | 23°17 | | | W15 |
| T 16 | 1 40 21 | 23°12'08 | 5♁50 | 7°16 | 14°16 | 2°58 | 11° 9 | 4° 5 | 10° 2 | 17°45 | 22° 3 | 19°57 | 20° 5 | 12°51 | 23°18 | | | T 16 |
| F 17 | 1 44 18 | 24°11'20 | 20° 1 | 8°48 | 15°30 | 3°30 | 11°17 | 4° 9 | 10° 4 | 17°46 | 22° 1 | 19°52 | 20° 2 | 12°58 | 23°20 | | | F 17 |
| S 18 | 1 48 15 | 25°10'34 | 3♁42 | 10°20 | 16°44 | 4° 2 | 11°24 | 4°13 | 10° 5 | 17°47 | 22° 0 | 19°50 | 19°59 | 13° 4 | 23°21 | | | S 18 |
| S 19 | 1 52 11 | 26° 9'50 | 16°54 | 11°51 | 17°58 | 4°33 | 11°32 | 4°16 | 10° 7 | 17°48 | 21°59 | 19°50 | 19°56 | 13°11 | 23°22 | | | S 19 |
| M20 | 1 56 8 | 27° 9'08 | 29°42 | 13°21 | 19°12 | 5° 4 | 11°39 | 4°20 | 10° 8 | 17°49 | 21°58 | 19°49 | 19°53 | 13°18 | 23°23 | | | M20 |
| T 21 | 2 0 4 | 28° 8'27 | 12♁ 9 | 14°51 | 20°27 | 5°35 | 11°47 | 4°25 | 10°10 | 17°50 | 21°57 | 19°49 | 19°50 | 13°25 | 23°24 | | | T 21 |
| W22 | 2 4 1 | 29° 7'48 | 24°21 | 16°19 | 21°41 | 6° 6 | 11°55 | 4°29 | 10°12 | 17°51 | 21°56 | 19°47 | 19°46 | 13°31 | 23°25 | | | W22 |
| T 23 | 2 7 57 | 0♎ 7'11 | 6♁23 | 17°47 | 22°55 | 6°37 | 12° 3 | 4°33 | 10°13 | 17°52 | 21°54 | 19°42 | 19°43 | 13°38 | 23°26 | | | T 23 |
| F 24 | 2 11 54 | 1° 6'36 | 18°18 | 19°15 | 24° 9 | 7° 7 | 12°12 | 4°37 | 10°15 | 17°53 | 21°53 | 19°34 | 19°40 | 13°45 | 23°27 | | | F 24 |
| S 25 | 2 15 50 | 2° 6'02 | 0♏10 | 20°41 | 25°23 | 7°37 | 12°20 | 4°42 | 10°17 | 17°54 | 21°52 | 19°24 | 19°37 | 13°51 | 23°28 | | | S 25 |
| S 26 | 2 19 47 | 3° 5'30 | 12° 2 | 22° 7 | 26°37 | 8° 7 | 12°29 | 4°46 | 10°19 | 17°55 | 21°51 | 19°11 | 19°34 | 13°58 | 23°29 | | | S 26 |
| M27 | 2 23 44 | 4° 5'00 | 23°56 | 23°31 | 27°51 | 8°36 | 12°37 | 4°51 | 10°21 | 17°56 | 21°50 | 18°57 | 19°30 | 14° 5 | 23°29 | | | M27 |
| T 28 | 2 27 40 | 5° 4'32 | 5♁53 | 24°55 | 29° 5 | 9° 5 | 12°46 | 4°55 | 10°23 | 17°56 | 21°49 | 18°44 | 19°27 | 14°12 | 23°30 | | | T 28 |
| W29 | 2 31 37 | 6° 4'06 | 17°54 | 26°18 | 0♁19 | 9°35 | 12°55 | 5° 0 | 10°25 | 17°57 | 21°48 | 18°31 | 19°24 | 14°18 | 23°30 | | | W29 |
| T 30 | 2 35 33 | 7° 3'43 | 0♐ 1 | 27°41 | 1°34 | 10° 3 | 13° 4 | 5° 4 | 10°27 | 17°58 | 21°46 | 18°20 | 19°21 | 14°25 | 23°30 | | | T 30 |
| F 31 | 2 39 30 | 8♎ 3'21 | 12♐15 | 29♎ 2 | 2♁48 | 10♌32 | 13♁13 | 5♁ 9 | 10♁29 | 17♌58 | 21°Y45 | 18♁12 | 19♁18 | 14°Y32 | 23♁30 | | | F 31 |

Delta T = 18m47s

ASTRODIENST EPHEMERIS for the year 2577
geocentric

NOVEMBER 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|--------|-------|------|-------|--------|--------|--------|-------|--------|--------|------|
| S 1 | 2 43 26 | 9♐ 3'01 | 24♐38 | 0♈22 | 4♈ 2 | 11♏ 0 | 13♊23 | 5♊14 | 10♊31 | 17♏59 | 21°R44 | 18°R 7 | 19♐15 | 14♑39 | 23♐31 | S 1 |
| S 2 | 2 47 23 | 10° 2'44 | 7♄12 | 1°41 | 5°16 | 11°28 | 13°32 | 5°19 | 10°33 | 18° 0 | 21°V43 | 18♄ 5 | 19°11 | 14°45 | 23°R31 | S 2 |
| M 3 | 2 51 19 | 11° 2'29 | 20° 0 | 2°59 | 6°30 | 11°56 | 13°42 | 5°24 | 10°35 | 18° 0 | 21°42 | 18°D 4 | 19° 8 | 14°52 | 23°31 | M 3 |
| T 4 | 2 55 16 | 12° 2'16 | 3♏ 5 | 4°15 | 7°44 | 12°23 | 13°51 | 5°29 | 10°38 | 18° 1 | 21°41 | 18° 5 | 19° 5 | 14°59 | 23°30 | T 4 |
| W 5 | 2 59 13 | 13° 2'05 | 16°32 | 5°31 | 8°58 | 12°51 | 14° 1 | 5°34 | 10°40 | 18° 1 | 21°40 | 18°R 5 | 19° 2 | 15° 5 | 23°30 | W 5 |
| T 6 | 3 3 9 | 14° 1'57 | 0♐21 | 6°44 | 10°12 | 13°18 | 14°11 | 5°40 | 10°42 | 18° 2 | 21°39 | 18° 4 | 18°59 | 15°12 | 23°30 | T 6 |
| F 7 | 3 7 6 | 15° 1'50 | 14°35 | 7°56 | 11°26 | 13°44 | 14°21 | 5°45 | 10°45 | 18° 2 | 21°38 | 18° 0 | 18°55 | 15°19 | 23°30 | F 7 |
| S 8 | 3 11 2 | 16° 1'46 | 29°12 | 9° 6 | 12°40 | 14°10 | 14°31 | 5°50 | 10°47 | 18° 3 | 21°37 | 17°55 | 18°52 | 15°26 | 23°29 | S 8 |
| S 9 | 3 14 59 | 17° 1'44 | 14♌ 7 | 10°15 | 13°54 | 14°36 | 14°41 | 5°55 | 10°50 | 18° 3 | 21°36 | 17°47 | 18°49 | 15°32 | 23°29 | S 9 |
| M10 | 3 18 55 | 18° 1'44 | 29°12 | 11°21 | 15° 8 | 15° 2 | 14°52 | 6° 1 | 10°52 | 18° 4 | 21°35 | 17°37 | 18°46 | 15°39 | 23°28 | M10 |
| T 11 | 3 22 52 | 19° 1'46 | 14♐19 | 12°24 | 16°22 | 15°27 | 15° 2 | 6° 6 | 10°55 | 18° 4 | 21°34 | 17°28 | 18°43 | 15°46 | 23°27 | T 11 |
| W12 | 3 26 48 | 20° 1'50 | 29°17 | 13°25 | 17°36 | 15°52 | 15°13 | 6°12 | 10°57 | 18° 4 | 21°33 | 17°20 | 18°40 | 15°52 | 23°26 | W12 |
| T 13 | 3 30 45 | 21° 1'56 | 13♈57 | 14°22 | 18°50 | 16°17 | 15°23 | 6°18 | 11° 0 | 18° 4 | 21°32 | 17°13 | 18°36 | 15°59 | 23°25 | T 13 |
| F 14 | 3 34 42 | 22° 2'03 | 28°12 | 15°16 | 20° 4 | 16°41 | 15°34 | 6°23 | 11° 2 | 18° 5 | 21°31 | 17° 9 | 18°33 | 16° 6 | 23°24 | F 14 |
| S 15 | 3 38 38 | 23° 2'12 | 11♊59 | 16° 7 | 21°18 | 17° 5 | 15°45 | 6°29 | 11° 5 | 18° 5 | 21°30 | 17°D 8 | 18°30 | 16°13 | 23°23 | S 15 |
| S 16 | 3 42 35 | 24° 2'23 | 25°18 | 16°53 | 22°32 | 17°29 | 15°56 | 6°35 | 11° 8 | 18° 5 | 21°29 | 17° 8 | 18°27 | 16°19 | 23°22 | S 16 |
| M17 | 3 46 31 | 25° 2'35 | 8♌11 | 17°34 | 23°46 | 17°52 | 16° 7 | 6°41 | 11°11 | 18° 5 | 21°28 | 17° 9 | 18°24 | 16°26 | 23°21 | M17 |
| T 18 | 3 50 28 | 26° 2'49 | 20°42 | 18° 9 | 25° 0 | 18°15 | 16°18 | 6°47 | 11°13 | 18° 5 | 21°27 | 17°R10 | 18°21 | 16°33 | 23°20 | T 18 |
| W19 | 3 54 24 | 27° 3'04 | 2♋56 | 18°39 | 26°14 | 18°37 | 16°29 | 6°53 | 11°16 | 18° 5 | 21°26 | 17°10 | 18°17 | 16°40 | 23°18 | W19 |
| T 20 | 3 58 21 | 28° 3'20 | 14°58 | 19° 2 | 27°28 | 19° 0 | 16°41 | 6°58 | 11°19 | 18°R 5 | 21°25 | 17° 8 | 18°14 | 16°46 | 23°17 | T 20 |
| F 21 | 4 2 17 | 29° 3'38 | 26°52 | 19°17 | 28°42 | 19°21 | 16°52 | 7° 5 | 11°22 | 18° 5 | 21°24 | 17° 4 | 18°11 | 16°53 | 23°15 | F 21 |
| S 22 | 4 6 14 | 0♈ 3'57 | 8♑44 | 19°R25 | 29°55 | 19°42 | 17° 3 | 7°11 | 11°25 | 18° 5 | 21°23 | 16°58 | 18° 8 | 17° 0 | 23°13 | S 22 |
| S 23 | 4 10 11 | 1° 4'18 | 20°36 | 19°23 | 1♊ 9 | 20° 3 | 17°15 | 7°17 | 11°28 | 18° 5 | 21°22 | 16°51 | 18° 5 | 17° 6 | 23°12 | S 23 |
| M24 | 4 14 7 | 2° 4'40 | 2♊33 | 19°12 | 2°23 | 20°24 | 17°27 | 7°23 | 11°31 | 18° 5 | 21°22 | 16°42 | 18° 1 | 17°13 | 23°10 | M24 |
| T 25 | 4 18 4 | 3° 5'04 | 14°35 | 18°51 | 3°37 | 20°44 | 17°38 | 7°29 | 11°34 | 18° 5 | 21°21 | 16°33 | 17°58 | 17°20 | 23° 8 | T 25 |
| W26 | 4 22 0 | 4° 5'29 | 26°45 | 18°20 | 4°51 | 21° 3 | 17°50 | 7°35 | 11°37 | 18° 5 | 21°20 | 16°25 | 17°55 | 17°27 | 23° 6 | W26 |
| T 27 | 4 25 57 | 5° 5'56 | 9♐ 5 | 17°39 | 6° 5 | 21°22 | 18° 2 | 7°42 | 11°40 | 18° 4 | 21°19 | 16°19 | 17°52 | 17°33 | 23° 4 | T 27 |
| F 28 | 4 29 53 | 6° 6'24 | 21°33 | 16°47 | 7°18 | 21°41 | 18°14 | 7°48 | 11°43 | 18° 4 | 21°18 | 16°14 | 17°49 | 17°40 | 23° 2 | F 28 |
| S 29 | 4 33 50 | 7° 6'54 | 4♄13 | 15°46 | 8°32 | 21°59 | 18°26 | 7°54 | 11°46 | 18° 4 | 21°18 | 16°11 | 17°46 | 17°47 | 23° 0 | S 29 |
| S 30 | 4 37 46 | 8♈ 7'26 | 17♄ 3 | 14♑36 | 9♊46 | 22°D17 | 18♊38 | 8♊ 1 | 11♊49 | 18°D 3 | 21°V17 | 16°D10 | 17♄42 | 17°V54 | 22♄57 | S 30 |

Delta T = 18m47s

DECEMBER 2577

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|------|
| M 1 | 4 41 43 | 9♈ 7'59 | 0♏ 6 | 13°R20 | 11♊ 0 | 22°D34 | 18♊50 | 8♊ 7 | 11♊52 | 18°R 3 | 21°R16 | 16♄11 | 17♄39 | 18°V 0 | 22°R55 | M 1 |
| T 2 | 4 45 40 | 10° 8'34 | 13°22 | 12♈ 0 | 12°13 | 22°51 | 19° 3 | 8°14 | 11°56 | 18°D 3 | 21°V15 | 16°13 | 17°36 | 18° 7 | 22♄53 | T 2 |
| W 3 | 4 49 36 | 11° 9'11 | 26°53 | 10°38 | 13°27 | 23° 7 | 19°15 | 8°20 | 11°59 | 18° 2 | 21°15 | 16°14 | 17°33 | 18°14 | 22°50 | W 3 |
| T 4 | 4 53 33 | 12° 9'49 | 10♐40 | 9°17 | 14°41 | 23°23 | 19°27 | 8°27 | 12° 2 | 18° 2 | 21°14 | 16°R15 | 17°30 | 18°20 | 22°47 | T 4 |
| F 5 | 4 57 29 | 13°10'29 | 24°43 | 8° 0 | 15°54 | 23°38 | 19°40 | 8°34 | 12° 5 | 18° 1 | 21°13 | 16°14 | 17°27 | 18°27 | 22°45 | F 5 |
| S 6 | 5 1 26 | 14°11'10 | 9♌ 2 | 6°48 | 17° 8 | 23°53 | 19°52 | 8°40 | 12° 9 | 18° 1 | 21°13 | 16°12 | 17°23 | 18°34 | 22°42 | S 6 |
| S 7 | 5 5 22 | 15°11'54 | 23°34 | 5°46 | 18°22 | 24° 7 | 20° 5 | 8°47 | 12°12 | 18° 0 | 21°12 | 16° 9 | 17°20 | 18°41 | 22°39 | S 7 |
| M 8 | 5 9 19 | 16°12'38 | 8♐14 | 4°53 | 19°35 | 24°20 | 20°18 | 8°54 | 12°15 | 18° 0 | 21°12 | 16° 5 | 17°17 | 18°47 | 22°36 | M 8 |
| T 9 | 5 13 15 | 17°13'25 | 22°56 | 4°11 | 20°49 | 24°33 | 20°30 | 9° 0 | 12°19 | 17°59 | 21°11 | 16° 0 | 17°14 | 18°54 | 22°34 | T 9 |
| W10 | 5 17 12 | 18°14'12 | 7♈32 | 3°40 | 22° 2 | 24°46 | 20°43 | 9° 7 | 12°22 | 17°58 | 21°10 | 15°56 | 17°11 | 19° 1 | 22°31 | W10 |
| T 11 | 5 21 9 | 19°15'01 | 21°56 | 3°21 | 23°16 | 24°57 | 20°56 | 9°14 | 12°25 | 17°58 | 21°10 | 15°53 | 17° 7 | 19° 7 | 22°28 | T 11 |
| F 12 | 5 25 5 | 20°15'51 | 6♊ 2 | 3°D13 | 24°29 | 25° 8 | 21° 9 | 9°21 | 12°29 | 17°57 | 21° 9 | 15°51 | 17° 4 | 19°14 | 22°25 | F 12 |
| S 13 | 5 29 2 | 21°16'42 | 19°46 | 3°16 | 25°43 | 25°19 | 21°22 | 9°28 | 12°32 | 17°56 | 21° 9 | 15°D51 | 17° 1 | 19°21 | 22°21 | S 13 |
| S 14 | 5 32 58 | 22°17'35 | 3♌ 7 | 3°29 | 26°56 | 25°29 | 21°35 | 9°34 | 12°36 | 17°56 | 21° 8 | 15°52 | 16°58 | 19°28 | 22°18 | S 14 |
| M15 | 5 36 55 | 23°18'28 | 16° 3 | 3°51 | 28°10 | 25°38 | 21°48 | 9°41 | 12°39 | 17°55 | 21° 8 | 15°54 | 16°55 | 19°34 | 22°15 | M15 |
| T 16 | 5 40 51 | 24°19'21 | 28°39 | 4°22 | 29°23 | 25°46 | 22° 1 | 9°48 | 12°42 | 17°54 | 21° 7 | 15°55 | 16°52 | 19°41 | 22°12 | T 16 |
| W17 | 5 44 48 | 25°20'16 | 10♋57 | 4°59 | 0♌36 | 25°54 | 22°14 | 9°55 | 12°46 | 17°53 | 21° 7 | 15°57 | 16°48 | 19°48 | 22° 8 | W17 |
| T 18 | 5 48 45 | 26°21'11 | 23° 2 | 5°44 | 1°50 | 26° 1 | 22°28 | 10° 2 | 12°49 | 17°52 | 21° 7 | 15°R57 | 16°45 | 19°55 | 22° 5 | T 18 |
| F 19 | 5 52 41 | 27°22'06 | 4♑58 | 6°34 | 3° 3 | 26° 8 | 22°41 | 10° 9 | 12°53 | 17°51 | 21° 6 | 15°57 | 16°42 | 20° 1 | 22° 1 | F 19 |
| S 20 | 5 56 38 | 28°23'03 | 16°50 | 7°29 | 4°16 | 26°14 | 22°54 | 10°16 | 12°56 | 17°50 | 21° 6 | 15°56 | 16°39 | 20° 8 | 21°58 | S 20 |
| S 21 | 6 0 34 | 29°24'00 | 28°44 | 8°29 | 5°29 | 26°19 | 23° 7 | 10°23 | 13° 0 | 17°49 | 21° 6 | 15°54 | 16°36 | 20°15 | 21°54 | S 21 |
| M22 | 6 4 31 | 0♊24'58 | 10♌42 | 9°33 | 6°42 | 26°23 | 23°21 | 10°30 | 13° 4 | 17°48 | 21° 5 | 15°52 | 16°33 | 20°21 | 21°51 | M22 |
| T 23 | 6 8 27 | 1°25'56 | 10°40 | 10°40 | 7°56 | 26°27 | 23°34 | 10°37 | 13° 7 | 17°47 | 21° 5 | 15°50 | 16°29 | 20°28 | 21°47 | T 23 |
| W24 | 6 12 24 | 2°26'55 | 5♐ 6 | 11°50 | 9° 9 | 26°29 | 23°48 | 10°44 | 13°11 | 17°46 | 21° 5 | 15°47 | 16°26 | 20°35 | 21°43 | W24 |
| T 25 | 6 16 20 | 3°27'54 | 17°37 | 13° 3 | 10°22 | 26°32 | 24° 1 | 10°51 | 13°14 | 17°45 | 21° 4 | 15°46 | 16°23 | 20°42 | 21°40 | T 25 |
| F 26 | 6 20 17 | 4°28'55 | 0♄23 | 14°18 | 11°34 | 26°33 | 24°15 | 10°58 | 13°18 | 17°44 | 21° 4 | 15°45 | 16°20 | 20°48 | 21°36 | F 26 |
| S 27 | 6 24 14 | 5°29'56 | 13°23 | 15°35 | 12°47 | 26°R33 | 24°28 | 11° 5 | 13°21 | 17°43 | 21° 4 | 15°D44 | 16°17 | 20°55 | 21°32 | S 27 |
| S 28 | 6 28 10 | 6°30'57 | 26°37 | 16°54 | 14° 0 | 26°33 | 24°42 | 11°12 | 13°25 | 17°42 | 21° 4 | 15°44 | 16°13 | 21° 2 | 21°28 | S 28 |
| M29 | 6 32 7 | 7°31'59 | 10♏ 4 | 18°14 | 15°13 | 26°32 | 24°56 | 11°19 | 13°29 | 17°40 | 21° 4 | 15°45 | 16°10 | 21° 9 | 21°24 | M29 |
| T 30 | 6 36 3 | 8°33'02 | 23°44 | 19°36 | 16°26 | 26°30 | 25° 9 | 11°26 | 13°32 | 17°39 | 21° 4 | 15°46 | 16° 7 | 21°15 | 21°21 | T 30 |
| W31 | 6 40 0 | 9♊34'06 | 7♐33 | 20♈58 | 17♌38 | 26°D28 | 25♊23 | 11♊33 | 13♊36 | 17°D38 | 21°V 4 | 15°D46 | 16°D 4 | 21°V22 | 21♄17 | W31 |

Delta T = 18m47s

ASTRODIENST EPHEMERIS for the year 2578
geocentric

JANUARY 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|-------|-------|--------|--------|--------|-------|-------|--------|------|
| T 1 | 6 43 56 | 10♌35°10 | 21♎32 | 22♋22 | 18♏51 | 26°R24 | 25♌37 | 11♌40 | 13♌39 | 17°R37 | 21°R 3 | 15♌47 | 16♌ 1 | 21♎29 | 21°R13 | T 1 |
| F 2 | 6 47 53 | 11°36'15 | 5♌37 | 23°47 | 20° 4 | 26♌20 | 25°51 | 11°48 | 13°43 | 17♌35 | 21°R 3 | 15°R47 | 15°58 | 21°35 | 21♌ 9 | F 2 |
| S 3 | 6 51 49 | 12°37'21 | 19°48 | 25°13 | 21°16 | 26°15 | 26° 4 | 11°55 | 13°47 | 17°34 | 21° 3 | 15°47 | 15°54 | 21°42 | 21° 5 | S 3 |
| S 4 | 6 55 46 | 13°38'28 | 4♎ 2 | 26°39 | 22°29 | 26° 9 | 26°18 | 12° 2 | 13°50 | 17°33 | 21°D 3 | 15°47 | 15°51 | 21°49 | 21° 1 | S 4 |
| M 5 | 6 59 43 | 14°39'35 | 18°17 | 28° 6 | 23°41 | 26° 2 | 26°32 | 12° 9 | 13°54 | 17°32 | 21° 3 | 15°47 | 15°48 | 21°56 | 20°57 | M 5 |
| T 6 | 7 3 39 | 15°40'43 | 2♋29 | 29°34 | 24°53 | 25°55 | 26°46 | 12°16 | 13°58 | 17°30 | 21° 3 | 15°D47 | 15°45 | 22° 2 | 20°53 | T 6 |
| W 7 | 7 7 36 | 16°41'51 | 16°35 | 1♌ 2 | 26° 6 | 25°46 | 27° 0 | 12°23 | 14° 1 | 17°29 | 21° 3 | 15°47 | 15°42 | 22° 9 | 20°49 | W 7 |
| T 8 | 7 11 32 | 17°43'00 | 0♌32 | 2°30 | 27°18 | 25°37 | 27°14 | 12°30 | 14° 5 | 17°27 | 21° 4 | 15°47 | 15°39 | 22°16 | 20°45 | T 8 |
| F 9 | 7 15 29 | 18°44'09 | 14°16 | 4° 0 | 28°30 | 25°27 | 27°28 | 12°37 | 14° 8 | 17°26 | 21° 4 | 15°R47 | 15°35 | 22°22 | 20°41 | F 9 |
| S 10 | 7 19 25 | 19°45'18 | 27°44 | 5°29 | 29°42 | 25°16 | 27°42 | 12°44 | 14°12 | 17°24 | 21° 4 | 15°47 | 15°32 | 22°29 | 20°37 | S 10 |
| S 11 | 7 23 22 | 20°46'27 | 10♏55 | 6°59 | 0♋54 | 25° 4 | 27°56 | 12°51 | 14°16 | 17°23 | 21° 4 | 15°47 | 15°29 | 22°36 | 20°33 | S 11 |
| M12 | 7 27 18 | 21°47'36 | 23°47 | 8°30 | 2° 6 | 24°51 | 28°10 | 12°58 | 14°19 | 17°22 | 21° 4 | 15°46 | 15°26 | 22°43 | 20°29 | M12 |
| T 13 | 7 31 15 | 22°48'45 | 6♋22 | 10° 1 | 3°18 | 24°38 | 28°24 | 13° 5 | 14°23 | 17°20 | 21° 4 | 15°45 | 15°23 | 22°49 | 20°25 | T 13 |
| W14 | 7 35 12 | 23°49'54 | 18°42 | 11°32 | 4°29 | 24°24 | 28°38 | 13°12 | 14°26 | 17°19 | 21° 4 | 15°44 | 15°19 | 22°56 | 20°20 | W14 |
| T 15 | 7 39 8 | 24°51'03 | 0♎49 | 13° 4 | 5°41 | 24° 9 | 28°52 | 13°19 | 14°30 | 17°17 | 21° 5 | 15°43 | 15°16 | 23° 3 | 20°16 | T 15 |
| F 16 | 7 43 5 | 25°52'11 | 12°46 | 14°36 | 6°52 | 23°53 | 29° 6 | 13°26 | 14°34 | 17°15 | 21° 5 | 15°42 | 15°13 | 23°10 | 20°12 | F 16 |
| S 17 | 7 47 1 | 26°53'19 | 24°39 | 16° 8 | 8° 4 | 23°37 | 29°20 | 13°33 | 14°37 | 17°14 | 21° 5 | 15°D42 | 15°10 | 23°16 | 20° 8 | S 17 |
| S 18 | 7 50 58 | 27°54'26 | 6♌32 | 17°41 | 9°15 | 23°20 | 29°34 | 13°40 | 14°41 | 17°12 | 21° 6 | 15°42 | 15° 7 | 23°23 | 20° 4 | S 18 |
| M19 | 7 54 54 | 28°55'33 | 18°29 | 19°15 | 10°26 | 23° 2 | 29°48 | 13°47 | 14°44 | 17°11 | 21° 6 | 15°43 | 15° 4 | 23°30 | 20° 0 | M19 |
| T 20 | 7 58 51 | 29°56'40 | 0♎36 | 20°49 | 11°38 | 22°44 | 0♌ 2 | 13°54 | 14°48 | 17° 9 | 21° 6 | 15°44 | 15° 0 | 23°36 | 19°56 | T 20 |
| W21 | 8 2 47 | 0♏57'46 | 12°57 | 22°23 | 12°49 | 22°25 | 0°16 | 14° 1 | 14°51 | 17° 8 | 21° 7 | 15°45 | 14°57 | 23°43 | 19°52 | W21 |
| T 22 | 8 6 44 | 1°58'51 | 25°34 | 23°58 | 14° 0 | 22° 5 | 0°30 | 14° 8 | 14°55 | 17° 6 | 21° 7 | 15°47 | 14°54 | 23°50 | 19°48 | T 22 |
| F 23 | 8 10 41 | 2°59'56 | 8♌31 | 25°33 | 15°10 | 21°45 | 0°44 | 14°15 | 14°58 | 17° 4 | 21° 7 | 15°47 | 14°51 | 23°57 | 19°45 | F 23 |
| S 24 | 8 14 37 | 4° 1'01 | 21°49 | 27° 8 | 16°21 | 21°24 | 0°58 | 14°21 | 15° 2 | 17° 3 | 21° 8 | 15°R47 | 14°48 | 24° 3 | 19°41 | S 24 |
| S 25 | 8 18 34 | 5° 2'05 | 5♎26 | 28°44 | 17°32 | 21° 3 | 1°12 | 14°28 | 15° 5 | 17° 1 | 21° 8 | 15°46 | 14°45 | 24°10 | 19°37 | S 25 |
| M26 | 8 22 30 | 6° 3'09 | 19°22 | 0♏21 | 18°42 | 20°41 | 1°26 | 14°35 | 15° 9 | 16°59 | 21° 9 | 15°44 | 14°41 | 24°17 | 19°33 | M26 |
| T 27 | 8 26 27 | 7° 4'12 | 3♎31 | 1°58 | 19°52 | 20°19 | 1°40 | 14°42 | 15°12 | 16°58 | 21° 9 | 15°42 | 14°38 | 24°23 | 19°29 | T 27 |
| W28 | 8 30 23 | 8° 5'15 | 17°49 | 3°36 | 21° 2 | 19°57 | 1°54 | 14°48 | 15°15 | 16°56 | 21°10 | 15°38 | 14°35 | 24°30 | 19°25 | W28 |
| T 29 | 8 34 20 | 9° 6'17 | 2♌12 | 5°14 | 22°12 | 19°34 | 2° 8 | 14°55 | 15°19 | 16°54 | 21°10 | 15°35 | 14°32 | 24°37 | 19°22 | T 29 |
| F 30 | 8 38 16 | 10° 7'19 | 16°34 | 6°53 | 23°22 | 19°11 | 2°22 | 15° 2 | 15°22 | 16°53 | 21°11 | 15°33 | 14°29 | 24°44 | 19°18 | F 30 |
| S 31 | 8 42 13 | 11° 8'21 | 0♎52 | 8°32 | 24°32 | 18°04 | 2°36 | 15° 8 | 15°26 | 16°05 | 21°12 | 15°31 | 14°25 | 24°50 | 19°14 | S 31 |

Delta T = 18m48s

FEBRUARY 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|--------|------|-------|-------|--------|--------|--------|-------|-------|--------|------|
| S 1 | 8 46 10 | 12♏9'22 | 15♎ 2 | 10♏12 | 25♋42 | 18°R24 | 2♏50 | 15♌15 | 15♌29 | 16°R49 | 21°R12 | 15°D31 | 14♌22 | 24♎57 | 19°R11 | S 1 |
| M 2 | 8 50 6 | 13°10'24 | 29° 2 | 11°53 | 26°51 | 18°0 0 | 3° 4 | 15°22 | 15°32 | 16♌48 | 21°13 | 15♌31 | 14°19 | 25° 4 | 19♌ 7 | M 2 |
| T 3 | 8 54 3 | 14°11'24 | 12♋52 | 13°34 | 28° 0 | 17°36 | 3°18 | 15°28 | 15°36 | 16°46 | 21°14 | 15°33 | 14°16 | 25°11 | 19° 3 | T 3 |
| W 4 | 8 57 59 | 15°12'24 | 26°32 | 15°16 | 29° 9 | 17°12 | 3°32 | 15°35 | 15°39 | 16°44 | 21°14 | 15°35 | 14°13 | 25°17 | 19° 0 | W 4 |
| T 5 | 9 1 56 | 16°13'24 | 10♌ 0 | 16°58 | 0♎18 | 16°48 | 3°46 | 15°41 | 15°42 | 16°43 | 21°15 | 15°R36 | 14°10 | 25°24 | 18°56 | T 5 |
| F 6 | 9 5 52 | 17°14'23 | 23°17 | 18°42 | 1°27 | 16°24 | 4° 0 | 15°47 | 15°45 | 16°41 | 21°16 | 15°36 | 14° 6 | 25°31 | 18°53 | F 6 |
| S 7 | 9 9 49 | 18°15'21 | 6♏22 | 20°25 | 2°36 | 16° 0 | 4°14 | 15°54 | 15°48 | 16°39 | 21°16 | 15°34 | 14° 3 | 25°37 | 18°50 | S 7 |
| S 8 | 9 13 46 | 19°16'19 | 19°15 | 22°10 | 3°44 | 15°36 | 4°27 | 16° 0 | 15°52 | 16°38 | 21°17 | 15°30 | 14° 0 | 25°44 | 18°46 | S 8 |
| M 9 | 9 17 42 | 20°17'15 | 1♋55 | 23°54 | 4°53 | 15°12 | 4°41 | 16° 6 | 15°55 | 16°36 | 21°18 | 15°25 | 13°57 | 25°51 | 18°43 | M 9 |
| T 10 | 9 21 39 | 21°18'10 | 14°22 | 25°40 | 6° 1 | 14°49 | 4°55 | 16°13 | 15°58 | 16°34 | 21°19 | 15°18 | 13°54 | 25°58 | 18°40 | T 10 |
| W11 | 9 25 35 | 22°19'05 | 26°37 | 27°26 | 7° 9 | 14°25 | 5° 9 | 16°19 | 16° 1 | 16°32 | 21°20 | 15°11 | 13°51 | 26° 4 | 18°37 | W11 |
| T 12 | 9 29 32 | 23°19'57 | 8♎42 | 29°12 | 8°16 | 14° 2 | 5°23 | 16°25 | 16° 4 | 16°31 | 21°20 | 15° 4 | 13°47 | 26°11 | 18°34 | T 12 |
| F 13 | 9 33 28 | 24°20'49 | 20°39 | 0♋59 | 9°24 | 13°40 | 5°36 | 16°31 | 16° 7 | 16°29 | 21°21 | 14°58 | 13°44 | 26°18 | 18°31 | F 13 |
| S 14 | 9 37 25 | 25°21'40 | 2♌31 | 2°47 | 10°31 | 13°17 | 5°50 | 16°37 | 16°10 | 16°27 | 21°22 | 14°54 | 13°41 | 26°24 | 18°28 | S 14 |
| S 15 | 9 41 21 | 26°22'29 | 14°22 | 4°34 | 11°38 | 12°56 | 6° 4 | 16°43 | 16°13 | 16°26 | 21°23 | 14°51 | 13°38 | 26°31 | 18°25 | S 15 |
| M16 | 9 45 18 | 27°23'16 | 26°17 | 6°22 | 12°45 | 12°34 | 6°17 | 16°49 | 16°16 | 16°24 | 21°24 | 14°D50 | 13°35 | 26°38 | 18°22 | M16 |
| T 17 | 9 49 14 | 28°24'02 | 8♎21 | 8° 9 | 13°52 | 12°13 | 6°31 | 16°55 | 16°19 | 16°22 | 21°25 | 14°51 | 13°31 | 26°45 | 18°19 | T 17 |
| W18 | 9 53 11 | 29°24'47 | 20°39 | 9°57 | 14°58 | 11°53 | 6°44 | 17° 1 | 16°22 | 16°21 | 21°26 | 14°52 | 13°28 | 26°51 | 18°17 | W18 |
| T 19 | 9 57 8 | 0♋25'30 | 3♌16 | 11°44 | 16° 4 | 11°33 | 6°58 | 17° 7 | 16°25 | 16°19 | 21°27 | 14°53 | 13°25 | 26°58 | 18°14 | T 19 |
| F 20 | 10 1 4 | 1°26'12 | 16°15 | 13°31 | 17°10 | 11°14 | 7°11 | 17°12 | 16°28 | 16°18 | 21°28 | 14°R54 | 13°22 | 27° 5 | 18°11 | F 20 |
| S 21 | 10 5 1 | 2°26'52 | 29°40 | 15°16 | 18°16 | 10°56 | 7°25 | 17°18 | 16°30 | 16°16 | 21°29 | 14°53 | 13°19 | 27°12 | 18° 9 | S 21 |
| S 22 | 10 8 57 | 3°27'31 | 13♎31 | 17° 1 | 19°21 | 10°38 | 7°38 | 17°24 | 16°33 | 16°14 | 21°30 | 14°50 | 13°16 | 27°18 | 18° 6 | S 22 |
| M23 | 10 12 54 | 4°28'08 | 27°47 | 18°44 | 20°26 | 10°21 | 7°51 | 17°29 | 16°36 | 16°13 | 21°31 | 14°44 | 13°12 | 27°25 | 18° 4 | M23 |
| T 24 | 10 16 50 | 5°28'44 | 12♎22 | 20°25 | 21°31 | 10° 4 | 8° 5 | 17°35 | 16°39 | 16°11 | 21°32 | 14°37 | 13° 9 | 27°32 | 18° 2 | T 24 |
| W25 | 10 20 47 | 6°29'18 | 27° 9 | 22° 3 | 22°35 | 9°48 | 8°18 | 17°40 | 16°41 | 16°10 | 21°33 | 14°29 | 13° 6 | 27°38 | 18° 0 | W25 |
| T 26 | 10 24 43 | 7°29'51 | 12♌ 1 | 23°39 | 23°39 | 9°33 | 8°31 | 17°46 | 16°44 | 16° 8 | 21°34 | 14°20 | 13° 3 | 27°45 | 17°58 | T 26 |
| F 27 | 10 28 40 | 8°30'23 | 26°49 | 25°11 | 24°43 | 9°19 | 8°44 | 17°51 | 16°46 | 16° 6 | 21°35 | 14°13 | 13° 0 | 27°52 | 17°56 | F 27 |
| S 28 | 10 32 37 | 9♋30'53 | 11♎25 | 26♋39 | 25♎47 | 9°0 5 | 8°57 | 17°56 | 16°49 | 16°0 5 | 21°36 | 14° 7 | 12°56 | 27°59 | 17°54 | S 28 |

Delta T = 18m48s

ASTRODIENST EPHEMERIS for the year 2578
geocentric

MARCH 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|------|---|-----|
| S 1 | 10 36 33 | 10♋31'23 | 25♌46 | 28♌2 | 26♌50 | 8°R52 | 9♏11 | 18♎2 | 16♎51 | 16°R 3 | 21♏37 | 14°R 4 | 12♏53 | 28♌5 | 17°R52 | S 1 | | |
| M 2 | 10 40 30 | 11°31'51 | 9♌47 | 29°20 | 27°53 | 8♌40 | 9°24 | 18° 7 | 16°54 | 16♌2 | 21°38 | 14°D 3 | 12°50 | 28°12 | 17♏50 | M 2 | | |
| T 3 | 10 44 26 | 12°32'18 | 23°29 | 0♌32 | 28°55 | 8°29 | 9°36 | 18°12 | 16°56 | 16° 0 | 21°40 | 14♌4 | 12°47 | 28°19 | 17°48 | T 3 | | |
| W 4 | 10 48 23 | 13°32'43 | 6♌54 | 1°37 | 29°57 | 8°18 | 9°49 | 18°17 | 16°59 | 15°59 | 21°41 | 14° 4 | 12°44 | 28°25 | 17°47 | W 4 | | |
| T 5 | 10 52 19 | 14°33'07 | 20° 3 | 2°35 | 0♌59 | 8° 8 | 10° 2 | 18°22 | 17° 1 | 15°58 | 21°42 | 14°R 4 | 12°41 | 28°32 | 17°45 | T 5 | | |
| F 6 | 10 56 16 | 15°33'30 | 2♌58 | 3°24 | 2° 0 | 7°59 | 10°15 | 18°27 | 17° 3 | 15°56 | 21°43 | 14° 3 | 12°37 | 28°39 | 17°44 | F 6 | | |
| S 7 | 11 0 12 | 16°33'52 | 15°42 | 4° 6 | 3° 1 | 7°51 | 10°28 | 18°32 | 17° 6 | 15°55 | 21°44 | 13°58 | 12°34 | 28°46 | 17°42 | S 7 | | |
| S 8 | 11 4 9 | 17°34'11 | 28°15 | 4°38 | 4° 2 | 7°44 | 10°40 | 18°36 | 17° 8 | 15°53 | 21°46 | 13°51 | 12°31 | 28°52 | 17°41 | S 8 | | |
| M 9 | 11 8 6 | 18°34'29 | 10♌39 | 5° 2 | 5° 2 | 7°37 | 10°53 | 18°41 | 17°10 | 15°52 | 21°47 | 13°41 | 12°28 | 28°59 | 17°40 | M 9 | | |
| T 10 | 11 12 2 | 19°34'46 | 22°54 | 5°15 | 6° 2 | 7°31 | 11° 5 | 18°46 | 17°12 | 15°51 | 21°48 | 13°29 | 12°25 | 29° 6 | 17°38 | T 10 | | |
| W11 | 11 15 59 | 20°35'01 | 5♌1 | 5°R19 | 7° 1 | 7°26 | 11°18 | 18°50 | 17°14 | 15°49 | 21°49 | 13°16 | 12°22 | 29°12 | 17°37 | W11 | | |
| T 12 | 11 19 55 | 21°35'13 | 17° 1 | 5°14 | 8° 0 | 7°22 | 11°30 | 18°55 | 17°16 | 15°48 | 21°51 | 13° 3 | 12°18 | 29°19 | 17°36 | T 12 | | |
| F 13 | 11 23 52 | 22°35'24 | 28°55 | 5° 0 | 8°58 | 7°18 | 11°43 | 18°59 | 17°18 | 15°47 | 21°52 | 12°51 | 12°15 | 29°26 | 17°36 | F 13 | | |
| S 14 | 11 27 48 | 23°35'33 | 10♌45 | 4°36 | 9°56 | 7°16 | 11°55 | 19° 3 | 17°20 | 15°45 | 21°53 | 12°41 | 12°12 | 29°33 | 17°35 | S 14 | | |
| S 15 | 11 31 45 | 24°35'40 | 22°35 | 4° 4 | 10°54 | 7°14 | 12° 7 | 19° 7 | 17°22 | 15°44 | 21°54 | 12°34 | 12° 9 | 29°39 | 17°34 | S 15 | | |
| M16 | 11 35 41 | 25°35'45 | 4♌29 | 3°25 | 11°50 | 7°13 | 12°19 | 19°12 | 17°24 | 15°43 | 21°56 | 12°30 | 12° 6 | 29°46 | 17°34 | M16 | | |
| T 17 | 11 39 38 | 26°35'48 | 16°30 | 2°40 | 12°47 | 7°D12 | 12°31 | 19°16 | 17°26 | 15°42 | 21°57 | 12°28 | 12° 2 | 29°53 | 17°33 | T 17 | | |
| W18 | 11 43 35 | 27°35'49 | 28°43 | 1°49 | 13°42 | 7°13 | 12°43 | 19°20 | 17°28 | 15°40 | 21°58 | 12°D27 | 11°59 | 29°59 | 17°33 | W18 | | |
| T 19 | 11 47 31 | 28°35'48 | 11♌15 | 0°55 | 14°37 | 7°14 | 12°55 | 19°23 | 17°29 | 15°39 | 22° 0 | 12°R27 | 11°56 | 0♌6 | 17°32 | T 19 | | |
| F 20 | 11 51 28 | 29°35'45 | 24°10 | 29♌57 | 15°32 | 7°15 | 13° 7 | 19°27 | 17°31 | 15°38 | 22° 1 | 12°27 | 11°53 | 0°13 | 17°32 | F 20 | | |
| S 21 | 11 55 24 | 0♌35'39 | 7♌32 | 28°58 | 16°26 | 7°18 | 13°19 | 19°31 | 17°33 | 15°37 | 22° 2 | 12°25 | 11°50 | 0°20 | 17°32 | S 21 | | |
| S 22 | 11 59 21 | 1°35'32 | 21°23 | 28° 0 | 17°19 | 7°21 | 13°30 | 19°35 | 17°34 | 15°36 | 22° 4 | 12°20 | 11°47 | 0°26 | 17°D32 | S 22 | | |
| M23 | 12 3 17 | 2°35'22 | 5♌44 | 27° 2 | 18°11 | 7°25 | 13°42 | 19°38 | 17°36 | 15°35 | 22° 5 | 12°13 | 11°43 | 0°33 | 17°32 | M23 | | |
| T 24 | 12 7 14 | 3°35'10 | 20°31 | 26° 7 | 19° 3 | 7°30 | 13°53 | 19°42 | 17°37 | 15°34 | 22° 7 | 12° 3 | 11°40 | 0°40 | 17°32 | T 24 | | |
| W25 | 12 11 10 | 4°34'56 | 5♌36 | 25°16 | 19°54 | 7°35 | 14° 5 | 19°45 | 17°39 | 15°33 | 22° 8 | 11°52 | 11°37 | 0°46 | 17°32 | W25 | | |
| T 26 | 12 15 7 | 5°34'39 | 20°50 | 24°28 | 20°44 | 7°41 | 14°16 | 19°48 | 17°40 | 15°32 | 22° 9 | 11°41 | 11°34 | 0°53 | 17°32 | T 26 | | |
| F 27 | 12 19 3 | 6°34'22 | 6♌0 | 23°46 | 21°34 | 7°47 | 14°27 | 19°52 | 17°42 | 15°31 | 22°11 | 11°31 | 11°31 | 1° 0 | 17°33 | F 27 | | |
| S 28 | 12 23 0 | 7°34'02 | 20°59 | 23° 9 | 22°22 | 7°54 | 14°38 | 19°55 | 17°43 | 15°30 | 22°12 | 11°23 | 11°28 | 1° 7 | 17°33 | S 28 | | |
| S 29 | 12 26 57 | 8°33'41 | 5♌36 | 22°38 | 23°10 | 8° 2 | 14°49 | 19°58 | 17°44 | 15°29 | 22°14 | 11°17 | 11°24 | 1°13 | 17°34 | S 29 | | |
| M30 | 12 30 53 | 9°33'18 | 19°50 | 22°13 | 23°57 | 8°11 | 15° 0 | 20° 1 | 17°45 | 15°28 | 22°15 | 11°15 | 11°21 | 1°20 | 17°35 | M30 | | |
| T 31 | 12 34 50 | 10°32'53 | 3♌38 | 21♌54 | 24♌43 | 8♌20 | 15♏11 | 20♎4 | 17♎46 | 15♌27 | 22°16 | 11♏14 | 11♏18 | 1♌27 | 17♏35 | T 31 | | |

Delta T = 18m48s

APRIL 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|--------|-------|--------|-------|--------|-------|------|-------|------|---|-----|
| W 1 | 12 38 46 | 11°32'27 | 17♎1 | 21°R41 | 25♌28 | 8♌29 | 15♏22 | 20♎7 | 17♎48 | 15°R27 | 22°18 | 11°R14 | 11♏15 | 1♌33 | 17♏36 | W 1 | | |
| T 2 | 12 42 43 | 12°31'59 | 0♌3 | 21♌34 | 26°12 | 8°39 | 15°32 | 20° 9 | 17°49 | 15♌26 | 22°19 | 11♏13 | 11°12 | 1°40 | 17°37 | T 2 | | |
| F 3 | 12 46 39 | 13°31'29 | 13°D34 | 21°D34 | 26°55 | 8°50 | 15°43 | 20°12 | 17°50 | 15°25 | 22°21 | 11°11 | 11° 8 | 1°47 | 17°38 | F 3 | | |
| S 4 | 12 50 36 | 14°30'58 | 25°18 | 21°39 | 27°36 | 9° 1 | 15°53 | 20°14 | 17°51 | 15°24 | 22°22 | 11° 6 | 11° 5 | 1°54 | 17°39 | S 4 | | |
| S 5 | 12 54 32 | 15°30'24 | 7♌37 | 21°49 | 28°17 | 9°13 | 16° 3 | 20°17 | 17°51 | 15°24 | 22°23 | 10°58 | 11° 2 | 2° 0 | 17°40 | S 5 | | |
| M 6 | 12 58 29 | 16°29'49 | 19°48 | 22° 5 | 28°57 | 9°25 | 16°14 | 20°19 | 17°52 | 15°23 | 22°25 | 10°47 | 10°59 | 2° 7 | 17°42 | M 6 | | |
| T 7 | 13 2 26 | 17°29'12 | 1♌52 | 22°26 | 29°35 | 9°38 | 16°24 | 20°21 | 17°53 | 15°22 | 22°26 | 10°34 | 10°56 | 2°14 | 17°43 | T 7 | | |
| W 8 | 13 6 22 | 18°28'32 | 13°50 | 22°51 | 0♌13 | 9°51 | 16°34 | 20°24 | 17°54 | 15°22 | 22°28 | 10°20 | 10°53 | 2°20 | 17°44 | W 8 | | |
| T 9 | 13 10 19 | 19°27'51 | 25°44 | 23°21 | 0°49 | 10° 5 | 16°44 | 20°26 | 17°54 | 15°21 | 22°29 | 10° 5 | 10°49 | 2°27 | 17°46 | T 9 | | |
| F 10 | 13 14 15 | 20°27'08 | 7♌36 | 23°56 | 1°23 | 10°19 | 16°53 | 20°28 | 17°55 | 15°21 | 22°31 | 9°52 | 10°46 | 2°34 | 17°47 | F 10 | | |
| S 11 | 13 18 12 | 21°26'23 | 19°26 | 24°34 | 1°56 | 10°34 | 17° 3 | 20°29 | 17°56 | 15°20 | 22°32 | 9°41 | 10°43 | 2°41 | 17°49 | S 11 | | |
| S 12 | 13 22 8 | 22°25'36 | 1♌17 | 25°17 | 2°28 | 10°49 | 17°13 | 20°31 | 17°56 | 15°20 | 22°34 | 9°32 | 10°40 | 2°47 | 17°51 | S 12 | | |
| M13 | 13 26 5 | 23°24'46 | 13°12 | 26° 2 | 2°58 | 11° 5 | 17°22 | 20°33 | 17°57 | 15°19 | 22°35 | 9°27 | 10°37 | 2°54 | 17°53 | M13 | | |
| T 14 | 13 30 1 | 24°23'54 | 25°14 | 26°52 | 3°27 | 11°21 | 17°31 | 20°34 | 17°57 | 15°19 | 22°36 | 9°24 | 10°33 | 3° 1 | 17°55 | T 14 | | |
| W15 | 13 33 58 | 25°23'00 | 7♌27 | 27°44 | 3°54 | 11°38 | 17°40 | 20°36 | 17°58 | 15°19 | 22°38 | 9°D23 | 10°30 | 3° 7 | 17°57 | W15 | | |
| T 16 | 13 37 55 | 26°22'04 | 19°56 | 28°40 | 4°20 | 11°55 | 17°49 | 20°37 | 17°58 | 15°18 | 22°39 | 9°R23 | 10°27 | 3°14 | 17°59 | T 16 | | |
| F 17 | 13 41 51 | 27°21'06 | 2♌46 | 29°38 | 4°43 | 12°12 | 17°58 | 20°39 | 17°58 | 15°18 | 22°41 | 9°23 | 10°24 | 3°21 | 18° 1 | F 17 | | |
| S 18 | 13 45 48 | 28°20'05 | 16° 2 | 0♌40 | 5° 5 | 12°30 | 18° 7 | 20°40 | 17°58 | 15°18 | 22°42 | 9°22 | 10°21 | 3°28 | 18° 3 | S 18 | | |
| S 19 | 13 49 44 | 29°19'02 | 29°46 | 1°44 | 5°25 | 12°48 | 18°16 | 20°41 | 17°59 | 15°18 | 22°44 | 9°19 | 10°18 | 3°34 | 18° 6 | S 19 | | |
| M20 | 13 53 41 | 0♌17'56 | 14♌0 | 2°50 | 5°43 | 13° 7 | 18°24 | 20°42 | 17°59 | 15°17 | 22°45 | 9°13 | 10°14 | 3°41 | 18° 8 | M20 | | |
| T 21 | 13 57 37 | 1°16'49 | 28°41 | 3°59 | 5°59 | 13°26 | 18°33 | 20°43 | 17°59 | 15°17 | 22°47 | 9° 5 | 10°11 | 3°48 | 18°11 | T 21 | | |
| W22 | 14 1 34 | 2°15'39 | 13♌46 | 5°10 | 6°13 | 13°45 | 18°41 | 20°43 | 17°59 | 15°17 | 22°48 | 8°55 | 10° 8 | 3°54 | 18°13 | W22 | | |
| T 23 | 14 5 30 | 3°14'27 | 29° 3 | 6°24 | 6°25 | 14° 5 | 18°49 | 20°44 | 17°59 | 15°17 | 22°49 | 8°46 | 10° 5 | 4° 1 | 18°16 | T 23 | | |
| F 24 | 14 9 27 | 4°13'13 | 14♌23 | 7°39 | 6°35 | 14°25 | 18°57 | 20°45 | 17°59 | 15°17 | 22°51 | 8°37 | 10° 2 | 4° 8 | 18°19 | F 24 | | |
| S 25 | 14 13 24 | 5°11'57 | 29°34 | 8°57 | 6°42 | 14°46 | 19° 5 | 20°45 | 17°59 | 15°17 | 22°52 | 8°30 | 9°59 | 4°15 | 18°22 | S 25 | | |
| S 26 | 14 17 20 | 6°10'40 | 14♌27 | 10°17 | 6°47 | 15° 6 | 19°13 | 20°46 | 17°58 | 15°D17 | 22°54 | 8°25 | 9°55 | 4°21 | 18°25 | S 26 | | |
| M27 | 14 21 17 | 7° 9'20 | 28°54 | 11°39 | 6°50 | 15°28 | 19°21 | 20°46 | 17°58 | 15°17 | 22°55 | 8°23 | 9°52 | 4°28 | 18°27 | M27 | | |
| T 28 | 14 25 13 | 8° 8'00 | 12♌53 | 13° 2 | 6°R51 | 15°49 | 19°28 | 20°46 | 17°58 | 15°17 | 22°56 | 8°D23 | 9°49 | 4°35 | 18°31 | T 28 | | |
| W29 | 14 29 10 | 9° 6'37 | 26°24 | 14°28 | 6°49 | 16°11 | 19°35 | 20°46 | 17°57 | 15°17 | 22°58 | 8°23 | 9°46 | 4°41 | 18°34 | W29 | | |
| T 30 | 14 33 6 | 10♌5'13 | 9♏30 | 15°55 | 6♌44 | 16♌33 | 19♏42 | 20°R46 | 17♎57 | 15♌17 | 22°59 | 8°R24 | 9♏43 | 4♌48 | 18♏37 | T 30 | | |

Delta T = 18m49s

ASTRODIENST EPHEMERIS for the year 2578
geocentric

MAY 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|------------|--------|---------|--------|-------|-------|--------|--------|--------|-------|-------|------|------|--------|---|---|---|---|---|---|---|---|------|
| F 1 | 14 37 3 | 11♈ 3'47 | 22♋14 | 17♍25 | 6♌R38 | 16♌55 | 19♋49 | 20♌R46 | 17♌R57 | 15♌17 | 23♍1 | 8♌R23 | 9♌39 | 4♌55 | 18♌40 | | | | | | | | | F 1 |
| S 2 | 14 40 59 | 12° 2'20 | 4♌41 | 18°56 | 6♌I28 | 17°18 | 19°56 | 20♌346 | 17♌356 | 15°17 | 23° 2 | 8♌20 | 9°36 | 5° 1 | 18°44 | | | | | | | | | S 2 |
| S 3 | 14 44 56 | 13° 0'51 | 16°54 | 20°29 | 6°17 | 17°41 | 20° 3 | 20°46 | 17°56 | 15°18 | 23° 3 | 8°16 | 9°33 | 5° 8 | 18°47 | | | | | | | | | S 3 |
| M 4 | 14 48 53 | 13°59'20 | 28°57 | 22° 4 | 6° 3 | 18° 4 | 20°10 | 20°45 | 17°55 | 15°18 | 23° 5 | 8° 8 | 9°30 | 5°15 | 18°50 | | | | | | | | | M 4 |
| T 5 | 14 52 47 | 14°57'47 | 10♍54 | 23°40 | 5°46 | 18°27 | 20°16 | 20°45 | 17°54 | 15°18 | 23° 6 | 8° 0 | 9°27 | 5°22 | 18°54 | | | | | | | | | T 5 |
| W 6 | 14 56 46 | 15°56'13 | 22°47 | 25°18 | 5°27 | 18°51 | 20°22 | 20°44 | 17°54 | 15°19 | 23° 7 | 7°50 | 9°24 | 5°28 | 18°58 | | | | | | | | | W 6 |
| T 7 | 15 0 42 | 16°54'37 | 4♌38 | 26°58 | 5° 6 | 19°15 | 20°28 | 20°44 | 17°53 | 15°19 | 23° 9 | 7°40 | 9°20 | 5°35 | 19° 1 | | | | | | | | | T 7 |
| F 8 | 15 4 39 | 17°53'00 | 16°29 | 28°40 | 4°43 | 19°39 | 20°34 | 20°43 | 17°52 | 15°19 | 23°10 | 7°30 | 9°17 | 5°42 | 19° 5 | | | | | | | | | F 8 |
| S 9 | 15 8 35 | 18°51'21 | 28°22 | 0♌24 | 4°17 | 20° 4 | 20°40 | 20°42 | 17°51 | 15°20 | 23°11 | 7°23 | 9°14 | 5°48 | 19° 9 | | | | | | | | | S 9 |
| S 10 | 15 12 32 | 19°49'40 | 10♌I17 | 2° 9 | 3°50 | 20°29 | 20°46 | 20°41 | 17°51 | 15°20 | 23°13 | 7°17 | 9°11 | 5°55 | 19°13 | | | | | | | | | S 10 |
| M 11 | 15 16 28 | 20°47'57 | 22°19 | 3°56 | 3°20 | 20°54 | 20°51 | 20°40 | 17°50 | 15°21 | 23°14 | 7°14 | 9° 8 | 6° 2 | 19°17 | | | | | | | | | M 11 |
| T 12 | 15 20 25 | 21°46'12 | 4♌28 | 5°45 | 2°49 | 21°19 | 20°57 | 20°39 | 17°49 | 15°21 | 23°15 | 7°D12 | 9° 5 | 6° 9 | 19°21 | | | | | | | | | T 12 |
| W 13 | 15 24 22 | 22°44'25 | 16°47 | 7°36 | 2°17 | 21°45 | 21° 2 | 20°37 | 17°48 | 15°22 | 23°17 | 7°13 | 9° 1 | 6°15 | 19°25 | | | | | | | | | W 13 |
| T 14 | 15 28 18 | 23°42'37 | 29°21 | 9°29 | 1°43 | 22°10 | 21° 7 | 20°36 | 17°47 | 15°22 | 23°18 | 7°14 | 8°58 | 6°22 | 19°29 | | | | | | | | | T 14 |
| F 15 | 15 32 15 | 24°40'46 | 12♌I13 | 11°23 | 1° 7 | 22°36 | 21°11 | 20°35 | 17°45 | 15°23 | 23°19 | 7°15 | 8°55 | 6°29 | 19°33 | | | | | | | | | F 15 |
| S 16 | 15 36 11 | 25°38'54 | 25°25 | 13°19 | 0°31 | 23° 3 | 21°16 | 20°33 | 17°44 | 15°24 | 23°21 | 7°R16 | 8°52 | 6°35 | 19°38 | | | | | | | | | S 16 |
| S 17 | 15 40 8 | 26°36'59 | 9♌3 | 15°17 | 29♌54 | 23°29 | 21°21 | 20°32 | 17°43 | 15°24 | 23°22 | 7°15 | 8°49 | 6°42 | 19°42 | | | | | | | | | S 17 |
| M 18 | 15 44 4 | 27°35'03 | 23° 6 | 17°17 | 29°17 | 23°56 | 21°25 | 20°30 | 17°42 | 15°25 | 23°23 | 7°13 | 8°45 | 6°49 | 19°46 | | | | | | | | | M 18 |
| T 19 | 15 48 1 | 28°33'04 | 7♌24 | 19°18 | 28°39 | 24°23 | 21°29 | 20°28 | 17°41 | 15°26 | 23°24 | 7° 9 | 8°42 | 6°56 | 19°51 | | | | | | | | | T 19 |
| W 20 | 15 51 57 | 29°31'04 | 22°23 | 21°21 | 28° 1 | 24°50 | 21°33 | 20°26 | 17°39 | 15°27 | 23°25 | 7° 4 | 8°39 | 7° 2 | 19°55 | | | | | | | | | W 20 |
| T 21 | 15 55 54 | 0♌II29'02 | 7♌28 | 23°26 | 27°23 | 25°17 | 21°37 | 20°24 | 17°38 | 15°27 | 23°27 | 6°59 | 8°36 | 7° 9 | 20° 0 | | | | | | | | | T 21 |
| F 22 | 15 59 51 | 1°26'59 | 22°39 | 25°32 | 26°46 | 25°44 | 21°40 | 20°22 | 17°37 | 15°28 | 23°28 | 6°54 | 8°33 | 7°16 | 20° 5 | | | | | | | | | F 22 |
| S 23 | 16 3 47 | 2°24'54 | 7♌46 | 27°39 | 26°10 | 26°12 | 21°44 | 20°20 | 17°35 | 15°29 | 23°29 | 6°50 | 8°30 | 7°22 | 20° 9 | | | | | | | | | S 23 |
| S 24 | 16 7 44 | 3°22'47 | 22°40 | 29°48 | 25°35 | 26°40 | 21°47 | 20°18 | 17°34 | 15°30 | 23°30 | 6°48 | 8°26 | 7°29 | 20°14 | | | | | | | | | S 24 |
| M 25 | 16 11 40 | 4°20'39 | 7♌12 | 1♌I57 | 25° 0 | 27° 8 | 21°50 | 20°15 | 17°32 | 15°31 | 23°31 | 6°D47 | 8°23 | 7°36 | 20°19 | | | | | | | | | M 25 |
| T 26 | 16 15 37 | 5°18'30 | 21°19 | 4° 8 | 24°28 | 27°36 | 21°53 | 20°13 | 17°31 | 15°32 | 23°32 | 6°48 | 8°20 | 7°42 | 20°24 | | | | | | | | | T 26 |
| W 27 | 16 19 33 | 6°16'20 | 4♌59 | 6°19 | 23°56 | 28° 5 | 21°55 | 20°11 | 17°29 | 15°33 | 23°34 | 6°49 | 8°17 | 7°49 | 20°29 | | | | | | | | | W 27 |
| T 28 | 16 23 30 | 7°14'08 | 18°12 | 8°30 | 23°27 | 28°33 | 21°58 | 20° 8 | 17°27 | 15°34 | 23°35 | 6°50 | 8°14 | 7°56 | 20°33 | | | | | | | | | T 28 |
| F 29 | 16 27 26 | 8°11'55 | 1♌ 2 | 10°42 | 22°59 | 29° 2 | 22° 0 | 20° 5 | 17°26 | 15°35 | 23°36 | 6°52 | 8°11 | 8° 3 | 20°38 | | | | | | | | | F 29 |
| S 30 | 16 31 23 | 9° 9'42 | 13°31 | 12°53 | 22°34 | 29°31 | 22° 2 | 20° 3 | 17°24 | 15°36 | 23°37 | 6°R52 | 8° 7 | 8° 9 | 20°44 | | | | | | | | | S 30 |
| S 31 | 16 35 20 | 10♌II 7'27 | 25♌44 | 15♌II 4 | 22♌811 | 29♌59 | 22° 4 | 20♌3 0 | 17♌22 | 15♌237 | 23♌38 | 6°51 | 8° 4 | 8♌16 | 20°549 | | | | | | | | | S 31 |

Delta T = 18m49s

JUNE 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|------------|--------|---------|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|--------|-------|---|---|---|---|---|---|---|------|
| M 1 | 16 39 16 | 11♌II 5'11 | 7♌946 | 17♌II14 | 21°R49 | 0♌329 | 22° 6 | 19°R57 | 17°R20 | 15♌38 | 23♌39 | 6°R48 | 8° 1 | 8♌23 | 20°554 | | | | | | | | | M 1 |
| T 2 | 16 43 13 | 12° 2'53 | 19°41 | 19°23 | 21♌31 | 0°58 | 22° 8 | 19°354 | 17°319 | 15°40 | 23°40 | 6°545 | 7°58 | 8°29 | 20°59 | | | | | | | | | T 2 |
| W 3 | 16 47 9 | 13° 0'35 | 1♌32 | 21°31 | 21°14 | 1°28 | 22° 9 | 19°51 | 17°17 | 15°41 | 23°41 | 6°41 | 7°55 | 8°36 | 21° 4 | | | | | | | | | W 3 |
| T 4 | 16 51 6 | 13°58'16 | 13°22 | 23°38 | 21° 0 | 1°58 | 22°10 | 19°48 | 17°15 | 15°42 | 23°42 | 6°38 | 7°51 | 8°43 | 21° 9 | | | | | | | | | T 4 |
| F 5 | 16 55 2 | 14°55'56 | 25°15 | 25°43 | 20°48 | 2°27 | 22°11 | 19°45 | 17°13 | 15°43 | 23°43 | 6°34 | 7°48 | 8°49 | 21°15 | | | | | | | | | F 5 |
| S 6 | 16 58 59 | 15°53'35 | 7♌II13 | 27°45 | 20°39 | 2°57 | 22°12 | 19°41 | 17°11 | 15°45 | 23°44 | 6°31 | 7°45 | 8°56 | 21°20 | | | | | | | | | S 6 |
| S 7 | 17 2 55 | 16°51'12 | 19°17 | 29°46 | 20°32 | 3°28 | 22°13 | 19°38 | 17° 9 | 15°46 | 23°45 | 6°29 | 7°42 | 9° 3 | 21°25 | | | | | | | | | S 7 |
| M 8 | 17 6 52 | 17°48'49 | 1♌30 | 1♌30 | 1♌30 | 20°27 | 3°58 | 22°13 | 19°35 | 17° 7 | 15°47 | 23°46 | 6°D28 | 7°39 | 9°10 | 21°31 | | | | | | | | M 8 |
| T 9 | 17 10 49 | 18°46'24 | 13°52 | 3°41 | 20°D25 | 4°28 | 22°13 | 19°31 | 17° 5 | 15°49 | 23°47 | 6°29 | 7°36 | 9°16 | 21°36 | | | | | | | | | T 9 |
| W 10 | 17 14 45 | 19°43'58 | 26°26 | 5°34 | 20°25 | 4°59 | 22°R13 | 19°28 | 17° 3 | 15°50 | 23°48 | 6°29 | 7°32 | 9°23 | 21°42 | | | | | | | | | W 10 |
| T 11 | 17 18 42 | 20°41'31 | 9♌I13 | 7°26 | 20°28 | 5°30 | 22°13 | 19°24 | 17° 1 | 15°51 | 23°49 | 6°30 | 7°29 | 9°30 | 21°47 | | | | | | | | | T 11 |
| F 12 | 17 22 38 | 21°39'03 | 22°16 | 9°14 | 20°33 | 6° 1 | 22°13 | 19°21 | 16°59 | 15°53 | 23°49 | 6°32 | 7°26 | 9°36 | 21°53 | | | | | | | | | F 12 |
| S 13 | 17 26 35 | 22°36'33 | 5♌35 | 11° 0 | 20°40 | 6°32 | 22°12 | 19°17 | 16°57 | 15°54 | 23°50 | 6°33 | 7°23 | 9°43 | 21°59 | | | | | | | | | S 13 |
| S 14 | 17 30 31 | 23°34'02 | 19°13 | 12°43 | 20°49 | 7° 3 | 22°11 | 19°13 | 16°55 | 15°56 | 23°51 | 6°R33 | 7°20 | 9°50 | 22° 4 | | | | | | | | | S 14 |
| M 15 | 17 34 28 | 24°31'30 | 3♌ 9 | 14°24 | 21° 0 | 7°34 | 22°11 | 19°10 | 16°52 | 15°57 | 23°52 | 6°33 | 7°17 | 9°57 | 22°10 | | | | | | | | | M 15 |
| T 16 | 17 38 24 | 25°28'57 | 17°24 | 16° 2 | 21°13 | 8° 5 | 22° 9 | 19° 6 | 16°50 | 15°59 | 23°53 | 6°32 | 7°13 | 10° 3 | 22°16 | | | | | | | | | T 16 |
| W 17 | 17 42 21 | 26°26'22 | 1♌55 | 17°36 | 21°28 | 8°37 | 22° 8 | 19° 2 | 16°48 | 16° 0 | 23°54 | 6°32 | 7°10 | 10°10 | 22°21 | | | | | | | | | W 17 |
| T 18 | 17 46 18 | 27°23'47 | 16°38 | 19° 9 | 21°45 | 9° 9 | 22° 7 | 18°58 | 16°46 | 16° 2 | 23°54 | 6°30 | 7° 7 | 10°17 | 22°27 | | | | | | | | | T 18 |
| F 19 | 17 50 14 | 28°21'10 | 1♌27 | 20°38 | 22° 4 | 9°40 | 22° 5 | 18°54 | 16°43 | 16° 3 | 23°55 | 6°30 | 7° 4 | 10°23 | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2578
geocentric

JULY 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|--------|-------|-------|-------|--------|--------|--------|-------|--------|-------|------|-------|-------|------|
| W 1 | 18 37 33 | 9♄49'03 | 9♄54 | 4♃36 | 27♄58 | 16♃11 | 21°R31 | 18°R 4 | 16°R15 | 16♃24 | 24°V 2 | 6♄30 | 6♄26 | 11♄44 | 23♄45 | W 1 |
| T 2 | 18 41 29 | 10°46'20 | 21°46 | 5°25 | 28°36 | 16°44 | 21♄27 | 18♄ 0 | 16♄13 | 16°26 | 24° 3 | 6°31 | 6°23 | 11°50 | 23°51 | T 2 |
| F 3 | 18 45 26 | 11°43'37 | 3♄42 | 6° 9 | 29°15 | 17°17 | 21°22 | 17°55 | 16°10 | 16°28 | 24° 3 | 6°31 | 6°19 | 11°57 | 23°57 | F 3 |
| S 4 | 18 49 22 | 12°40'54 | 15°45 | 6°50 | 29°55 | 17°51 | 21°18 | 17°51 | 16° 8 | 16°30 | 24° 4 | 6°32 | 6°16 | 12° 4 | 24° 3 | S 4 |
| S 5 | 18 53 19 | 13°38'11 | 27°59 | 7°27 | 0♄37 | 18°24 | 21°13 | 17°46 | 16° 6 | 16°32 | 24° 4 | 6°32 | 6°13 | 12°11 | 24° 9 | S 5 |
| M 6 | 18 57 16 | 14°35'28 | 10♄26 | 8° 0 | 1°19 | 18°58 | 21° 9 | 17°42 | 16° 3 | 16°34 | 24° 5 | 6°R32 | 6°10 | 12°17 | 24°15 | M 6 |
| T 7 | 19 1 12 | 15°32'44 | 23° 6 | 8°29 | 2° 2 | 19°31 | 21° 4 | 17°38 | 16° 1 | 16°36 | 24° 5 | 6°32 | 6° 7 | 12°24 | 24°22 | T 7 |
| W 8 | 19 5 9 | 16°30'00 | 6♃ 0 | 8°53 | 2°47 | 20° 5 | 20°59 | 17°33 | 15°58 | 16°38 | 24° 5 | 6°31 | 6° 3 | 12°31 | 24°28 | W 8 |
| T 9 | 19 9 5 | 17°27'16 | 19° 9 | 9°14 | 3°32 | 20°39 | 20°54 | 17°29 | 15°56 | 16°40 | 24° 6 | 6°30 | 6° 0 | 12°37 | 24°34 | T 9 |
| F 10 | 19 13 2 | 18°24'31 | 2♄31 | 9°29 | 4°17 | 21°13 | 20°48 | 17°24 | 15°53 | 16°42 | 24° 6 | 6°28 | 5°57 | 12°44 | 24°40 | F 10 |
| S 11 | 19 16 58 | 19°21'46 | 16° 7 | 9°40 | 5° 4 | 21°47 | 20°43 | 17°20 | 15°51 | 16°44 | 24° 6 | 6°27 | 5°54 | 12°51 | 24°46 | S 11 |
| S 12 | 19 20 55 | 20°19'00 | 29°56 | 9°47 | 5°52 | 22°22 | 20°37 | 17°15 | 15°49 | 16°46 | 24° 7 | 6°26 | 5°51 | 12°57 | 24°53 | S 12 |
| M13 | 19 24 52 | 21°16'15 | 13♄55 | 9°R48 | 6°40 | 22°56 | 20°32 | 17°11 | 15°46 | 16°48 | 24° 7 | 6°25 | 5°48 | 13° 4 | 24°59 | M13 |
| T 14 | 19 28 48 | 22°13'28 | 28° 4 | 9°45 | 7°29 | 23°30 | 20°26 | 17° 7 | 15°44 | 16°50 | 24° 7 | 6°D25 | 5°44 | 13°11 | 25° 5 | T 14 |
| W15 | 19 32 45 | 23°10'42 | 12♄21 | 9°38 | 8°19 | 24° 5 | 20°20 | 17° 2 | 15°41 | 16°52 | 24° 7 | 6°25 | 5°41 | 13°17 | 25°11 | W15 |
| T 16 | 19 36 41 | 24° 7'55 | 26°42 | 9°26 | 9° 9 | 24°39 | 20°14 | 16°58 | 15°39 | 16°54 | 24° 7 | 6°26 | 5°38 | 13°24 | 25°18 | T 16 |
| F 17 | 19 40 38 | 25° 5'08 | 11♄ 6 | 9° 9 | 10° 0 | 25°14 | 20° 7 | 16°54 | 15°36 | 16°56 | 24° 8 | 6°28 | 5°35 | 13°31 | 25°24 | F 17 |
| S 18 | 19 44 34 | 26° 2'21 | 25°27 | 8°48 | 10°51 | 25°49 | 20° 1 | 16°49 | 15°34 | 16°58 | 24° 8 | 6°29 | 5°32 | 13°38 | 25°30 | S 18 |
| S 19 | 19 48 31 | 26°59'34 | 9♄32 | 8°24 | 11°44 | 26°24 | 19°55 | 16°45 | 15°32 | 17° 0 | 24° 8 | 6°R29 | 5°29 | 13°44 | 25°36 | S 19 |
| M20 | 19 52 27 | 27°56'47 | 23°47 | 7°55 | 12°36 | 26°59 | 19°48 | 16°41 | 15°29 | 17° 2 | 24° 8 | 6°28 | 5°25 | 13°51 | 25°43 | M20 |
| T 21 | 19 56 24 | 28°54'00 | 7♄36 | 7°23 | 13°30 | 27°34 | 19°41 | 16°36 | 15°27 | 17° 5 | 24° 8 | 6°26 | 5°22 | 13°58 | 25°49 | T 21 |
| W22 | 20 0 21 | 29°51'14 | 21° 8 | 6°49 | 14°24 | 28° 9 | 19°34 | 16°32 | 15°25 | 17° 7 | 24° 8 | 6°23 | 5°19 | 14° 4 | 25°55 | W22 |
| T 23 | 20 4 17 | 0♄48'27 | 4♄21 | 6°12 | 15°18 | 28°44 | 19°27 | 16°28 | 15°22 | 17° 9 | 24° 8 | 6°20 | 5°16 | 14°11 | 26° 1 | T 23 |
| F 24 | 20 8 14 | 1°45'41 | 17°13 | 5°33 | 16°13 | 29°19 | 19°20 | 16°24 | 15°20 | 17°11 | 24°R 8 | 6°16 | 5°13 | 14°18 | 26° 8 | F 24 |
| S 25 | 20 12 10 | 2°42'56 | 29°47 | 4°54 | 17° 9 | 29°55 | 19°13 | 16°20 | 15°18 | 17°13 | 24° 8 | 6°13 | 5° 9 | 14°24 | 26°14 | S 25 |
| S 26 | 20 16 7 | 3°40'11 | 12°V 4 | 4°13 | 18° 5 | 0♄30 | 19° 6 | 16°15 | 15°15 | 17°15 | 24° 8 | 6°10 | 5° 6 | 14°31 | 26°20 | S 26 |
| M27 | 20 20 3 | 4°37'26 | 24° 9 | 3°34 | 19° 1 | 1° 6 | 18°59 | 16°11 | 15°13 | 17°18 | 24° 8 | 6° 8 | 5° 3 | 14°38 | 26°26 | M27 |
| T 28 | 20 24 0 | 5°34'43 | 6♄ 4 | 2°55 | 19°58 | 1°41 | 18°52 | 16° 7 | 15°11 | 17°20 | 24° 8 | 6°D 8 | 5° 0 | 14°44 | 26°33 | T 28 |
| W29 | 20 27 56 | 6°32'00 | 17°56 | 2°17 | 20°55 | 2°17 | 18°44 | 16° 3 | 15° 9 | 17°22 | 24° 8 | 6° 8 | 4°57 | 14°51 | 26°39 | W29 |
| T 30 | 20 31 53 | 7°29'18 | 29°48 | 1°43 | 21°53 | 2°53 | 18°37 | 15°59 | 15° 7 | 17°24 | 24° 8 | 6° 9 | 4°54 | 14°58 | 26°45 | T 30 |
| F 31 | 20 35 50 | 8♄26'36 | 11♄46 | 1♄11 | 22♄51 | 3♄28 | 18♄29 | 15°55 | 15° 4 | 17°26 | 24°V 8 | 6♄11 | 4♄50 | 15♄ 5 | 26♄51 | F 31 |

Delta T = 18m50s

AUGUST 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|--------|--------|-------|--------|-------|------|-------|-------|------|
| S 1 | 20 39 46 | 9♄23'55 | 23♄54 | 0°R42 | 23♄50 | 4♄ 4 | 18°R22 | 15°R51 | 15°R 2 | 17♄28 | 24°R 7 | 6♄13 | 4♄47 | 15♄11 | 26♄57 | S 1 |
| S 2 | 20 43 43 | 10°21'15 | 6♄16 | 0♄18 | 24°49 | 4°40 | 18♄14 | 15♄48 | 15♄ 0 | 17°31 | 24°V 7 | 6°R13 | 4°44 | 15°18 | 27° 4 | S 2 |
| M 3 | 20 47 39 | 11°18'36 | 18°55 | 29♄59 | 25°48 | 5°16 | 18° 6 | 15°44 | 14°58 | 17°33 | 24° 7 | 6°13 | 4°41 | 15°25 | 27°10 | M 3 |
| T 4 | 20 51 36 | 12°15'58 | 1♄53 | 29°44 | 26°48 | 5°53 | 17°59 | 15°40 | 14°56 | 17°35 | 24° 7 | 6°10 | 4°38 | 15°31 | 27°16 | T 4 |
| W 5 | 20 55 32 | 13°13'20 | 15° 9 | 29°35 | 27°48 | 6°29 | 17°51 | 15°37 | 14°54 | 17°37 | 24° 7 | 6° 6 | 4°35 | 15°38 | 27°22 | W 5 |
| T 6 | 20 59 29 | 14°10'43 | 28°42 | 29°D32 | 28°48 | 7° 5 | 17°43 | 15°33 | 14°52 | 17°40 | 24° 6 | 6° 1 | 4°31 | 15°45 | 27°28 | T 6 |
| F 7 | 21 3 25 | 15° 8'06 | 12♄31 | 29°34 | 29°49 | 7°42 | 17°35 | 15°29 | 14°50 | 17°42 | 24° 6 | 5°55 | 4°28 | 15°51 | 27°34 | F 7 |
| S 8 | 21 7 22 | 16° 5'30 | 26°32 | 29°43 | 0♄50 | 8°18 | 17°28 | 15°26 | 14°48 | 17°44 | 24° 6 | 5°49 | 4°25 | 15°58 | 27°40 | S 8 |
| S 9 | 21 11 19 | 17° 2'54 | 10♄40 | 29°58 | 1°51 | 8°55 | 17°20 | 15°22 | 14°46 | 17°46 | 24° 5 | 5°43 | 4°22 | 16° 5 | 27°46 | S 9 |
| M10 | 21 15 15 | 18° 0'19 | 24°53 | 0♄19 | 2°52 | 9°31 | 17°12 | 15°19 | 14°44 | 17°48 | 24° 5 | 5°40 | 4°19 | 16°11 | 27°53 | M10 |
| T 11 | 21 19 12 | 18°57'45 | 9♄ 6 | 0°46 | 3°54 | 10° 8 | 17° 4 | 15°16 | 14°42 | 17°51 | 24° 5 | 5°38 | 4°15 | 16°18 | 27°59 | T 11 |
| W12 | 21 23 8 | 19°55'11 | 23°18 | 1°20 | 4°56 | 10°45 | 16°56 | 15°12 | 14°40 | 17°53 | 24° 4 | 5°D37 | 4°12 | 16°25 | 28° 5 | W12 |
| T 13 | 21 27 5 | 20°52'38 | 7♄26 | 2° 0 | 5°59 | 11°22 | 16°49 | 15° 9 | 14°38 | 17°55 | 24° 4 | 5°38 | 4° 9 | 16°32 | 28°11 | T 13 |
| F 14 | 21 31 1 | 21°50'05 | 21°29 | 2°46 | 7° 1 | 11°59 | 16°41 | 15° 6 | 14°37 | 17°57 | 24° 3 | 5°39 | 4° 6 | 16°38 | 28°17 | F 14 |
| S 15 | 21 34 58 | 22°47'33 | 5♄25 | 3°39 | 8° 4 | 12°36 | 16°33 | 15° 3 | 14°35 | 18° 0 | 24° 3 | 5°R40 | 4° 3 | 16°45 | 28°22 | S 15 |
| S 16 | 21 38 54 | 23°45'02 | 19°14 | 4°37 | 9° 8 | 13°13 | 16°25 | 15° 0 | 14°33 | 18° 2 | 24° 3 | 5°39 | 4° 0 | 16°52 | 28°28 | S 16 |
| M17 | 21 42 51 | 24°42'32 | 2♄54 | 5°42 | 10°11 | 13°50 | 16°18 | 14°57 | 14°32 | 18° 4 | 24° 2 | 5°36 | 3°56 | 16°58 | 28°34 | M17 |
| T 18 | 21 46 48 | 25°40'02 | 16°21 | 6°52 | 11°15 | 14°27 | 16°10 | 14°55 | 14°30 | 18° 6 | 24° 2 | 5°31 | 3°53 | 17° 5 | 28°40 | T 18 |
| W19 | 21 50 44 | 26°37'34 | 29°36 | 8° 8 | 12°19 | 15° 5 | 16° 3 | 14°52 | 14°28 | 18° 8 | 24° 1 | 5°24 | 3°50 | 17°12 | 28°46 | W19 |
| T 20 | 21 54 41 | 27°35'06 | 12♄36 | 9°29 | 13°23 | 15°42 | 15°55 | 14°49 | 14°27 | 18°11 | 24° 1 | 5°15 | 3°47 | 17°18 | 28°52 | T 20 |
| F 21 | 21 58 37 | 28°32'40 | 25°20 | 10°55 | 14°27 | 16°20 | 15°48 | 14°47 | 14°25 | 18°13 | 24° 0 | 5° 6 | 3°44 | 17°25 | 28°58 | F 21 |
| S 22 | 22 2 34 | 29°30'15 | 7°V48 | 12°26 | 15°32 | 16°57 | 15°40 | 14°44 | 14°24 | 18°15 | 23°59 | 4°57 | 3°40 | 17°32 | 29° 3 | S 22 |
| S 23 | 22 6 30 | 0♄27'51 | 20° 3 | 14° 2 | 16°37 | 17°35 | 15°33 | 14°42 | 14°22 | 18°17 | 23°59 | 4°49 | 3°37 | 17°38 | 29° 9 | S 23 |
| M24 | 22 10 27 | 1°25'28 | 2♄ 5 | 15°42 | 17°42 | 18°12 | 15°26 | 14°39 | 14°21 | 18°19 | 23°58 | 4°43 | 3°34 | 17°45 | 29°15 | M24 |
| T 25 | 22 14 23 | 2°23'07 | 13°59 | 17°25 | 18°47 | 18°50 | 15°19 | 14°37 | 14°20 | 18°22 | 23°57 | 4°39 | 3°31 | 17°52 | 29°20 | T 25 |
| W26 | 22 18 20 | 3°20'48 | 25°50 | 19°12 | 19°53 | 19°28 | 15°12 | 14°35 | 14°18 | 18°24 | 23°57 | 4°37 | 3°28 | 17°58 | 29°26 | W26 |
| T 27 | 22 22 17 | 4°18'30 | 7♄41 | 21° 2 | 20°59 | 20° 6 | 15° 5 | 14°33 | 14°17 | 18°26 | 23°56 | 4°D36 | 3°25 | 18° 5 | 29°31 | T 27 |
| F 28 | 22 26 13 | 5°16'14 | 19°39 | 22°54 | 22° 5 | 20°44 | 14°58 | 14°31 | 14°16 | 18°28 | 23°55 | 4°37 | 3°21 | 18°12 | 29°37 | F 28 |
| S 29 | 22 30 10 | 6°13'59 | 1♄48 | 24°49 | 23°11 | 21°22 | 14°51 | 14°29 | 14°14 | 18°30 | 23°55 | 4°R38 | 3°18 | 18°18 | 29°43 | S 29 |
| S 30 | 22 34 6 | 7°11'46 | 14°14 | 26°45 | 24°17 | 22° 0 | 14°44 | 14°27 | 14°13 | 18°32 | 23°54 | 4°37 | 3°15 | 18°25 | 29°48 | S 30 |
| M31 | 22 38 3 | 8♄ 9'34 | 27♄ 0 | 28♄43 | 25♄23 | 22♄38 | 14♄38 | 14♄25 | 14♄12 | 18♄34 | 23°V53 | 4♄35 | 3♄12 | 18♄32 | 29♄53 | M31 |

Delta T = 18m50s

ASTRODIENST EPHEMERIS for the year 2578
geocentric

SEPTEMBER 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|------|-------|-------|------|
| T 1 | 22 41 59 | 9♎ 7'24 | 10♏ 9 | 0♎42 | 26♁30 | 23♂16 | 14°R31 | 14°R24 | 14°R11 | 18♏137 | 23°R53 | 4°R30 | 3♁ 9 | 18♂39 | 29♁59 | T 1 |
| W 2 | 22 45 56 | 10° 5'16 | 23°42 | 2°41 | 27°37 | 23°55 | 14♁25 | 14♁22 | 14♁10 | 18°39 | 23°52 | 4♁23 | 3° 6 | 18°45 | 0♏ 4 | W 2 |
| T 3 | 22 49 52 | 11° 3'09 | 7♎38 | 4°41 | 28°44 | 24°33 | 14°19 | 14°21 | 14° 9 | 18°41 | 23°51 | 4°14 | 3° 2 | 18°52 | 0° 9 | T 3 |
| F 4 | 22 53 49 | 12° 1'03 | 21°53 | 6°41 | 29°51 | 25°12 | 14°12 | 14°19 | 14° 8 | 18°43 | 23°50 | 4° 4 | 2°59 | 18°59 | 0°15 | F 4 |
| S 5 | 22 57 45 | 12°58'59 | 6♁21 | 8°40 | 0♏59 | 25°50 | 14° 6 | 14°18 | 14° 7 | 18°45 | 23°49 | 3°54 | 2°56 | 19° 5 | 0°20 | S 5 |
| S 6 | 23 1 42 | 13°56'56 | 20°55 | 10°39 | 2° 6 | 26°29 | 14° 1 | 14°17 | 14° 6 | 18°47 | 23°49 | 3°44 | 2°53 | 19°12 | 0°25 | S 6 |
| M 7 | 23 5 39 | 14°54'54 | 5♎30 | 12°38 | 3°14 | 27° 8 | 13°55 | 14°16 | 14° 6 | 18°49 | 23°48 | 3°37 | 2°50 | 19°19 | 0°30 | M 7 |
| T 8 | 23 9 35 | 15°52'54 | 19°57 | 14°36 | 4°22 | 27°46 | 13°49 | 14°15 | 14° 5 | 18°51 | 23°47 | 3°32 | 2°46 | 19°25 | 0°35 | T 8 |
| W 9 | 23 13 32 | 16°50'55 | 4♁15 | 16°33 | 5°30 | 28°25 | 13°44 | 14°14 | 14° 4 | 18°53 | 23°46 | 3°30 | 2°43 | 19°32 | 0°40 | W 9 |
| T 10 | 23 17 28 | 17°48'58 | 18°21 | 18°29 | 6°38 | 29° 4 | 13°39 | 14°13 | 14° 4 | 18°55 | 23°45 | 3°D30 | 2°40 | 19°39 | 0°45 | T 10 |
| F 11 | 23 21 25 | 18°47'01 | 2♁13 | 20°24 | 7°46 | 29°43 | 13°34 | 14°12 | 14° 3 | 18°57 | 23°44 | 3°R30 | 2°37 | 19°45 | 0°50 | F 11 |
| S 12 | 23 25 21 | 19°45'06 | 15°53 | 22°18 | 8°54 | 0♎22 | 13°29 | 14°12 | 14° 2 | 18°59 | 23°43 | 3°29 | 2°34 | 19°52 | 0°55 | S 12 |
| S 13 | 23 29 18 | 20°43'13 | 29°21 | 24°11 | 10° 3 | 1° 1 | 13°24 | 14°11 | 14° 2 | 19° 1 | 23°42 | 3°27 | 2°31 | 19°59 | 1° 0 | S 13 |
| M14 | 23 33 14 | 21°41'21 | 12♁37 | 26° 3 | 11°12 | 1°40 | 13°19 | 14°11 | 14° 1 | 19° 3 | 23°41 | 3°22 | 2°27 | 20° 5 | 1° 5 | M14 |
| T 15 | 23 37 11 | 22°39'30 | 25°42 | 27°54 | 12°21 | 2°20 | 13°15 | 14°10 | 14° 1 | 19° 5 | 23°40 | 3°15 | 2°24 | 20°12 | 1° 9 | T 15 |
| W16 | 23 41 8 | 23°37'41 | 8♁36 | 29°43 | 13°30 | 2°59 | 13°11 | 14°10 | 14° 1 | 19° 7 | 23°39 | 3° 4 | 2°21 | 20°19 | 1°14 | W16 |
| T 17 | 23 45 4 | 24°35'53 | 21°19 | 1♁32 | 14°39 | 3°38 | 13° 7 | 14°10 | 14° 0 | 19° 9 | 23°38 | 2°52 | 2°18 | 20°25 | 1°18 | T 17 |
| F 18 | 23 49 1 | 25°34'07 | 3♁49 | 3°19 | 15°48 | 4°18 | 13° 3 | 14°D10 | 14° 0 | 19°11 | 23°37 | 2°39 | 2°15 | 20°32 | 1°23 | F 18 |
| S 19 | 23 52 57 | 26°32'23 | 16° 8 | 5° 5 | 16°57 | 4°57 | 12°59 | 14°10 | 14° 0 | 19°12 | 23°36 | 2°25 | 2°12 | 20°39 | 1°28 | S 19 |
| S 20 | 23 56 54 | 27°30'41 | 28°16 | 6°50 | 18° 7 | 5°37 | 12°55 | 14°10 | 14° 0 | 19°14 | 23°35 | 2°14 | 2° 8 | 20°45 | 1°32 | S 20 |
| M21 | 0 0 50 | 28°29'00 | 10♁14 | 8°33 | 19°17 | 6°17 | 12°52 | 14°10 | 14° 0 | 19°16 | 23°34 | 2° 4 | 2° 5 | 20°52 | 1°36 | M21 |
| T 22 | 0 4 47 | 29°27'22 | 22° 5 | 10°16 | 20°26 | 6°56 | 12°49 | 14°11 | 14° 0 | 19°18 | 23°33 | 1°57 | 2° 2 | 20°59 | 1°41 | T 22 |
| W23 | 0 8 43 | 0♁25'45 | 3♎54 | 11°58 | 21°36 | 7°36 | 12°46 | 14°11 | 14°D 0 | 19°20 | 23°32 | 1°53 | 1°59 | 21° 5 | 1°45 | W23 |
| T 24 | 0 12 40 | 1°24'11 | 15°43 | 13°38 | 22°46 | 8°16 | 12°43 | 14°12 | 14° 0 | 19°21 | 23°31 | 1°51 | 1°56 | 21°12 | 1°49 | T 24 |
| F 25 | 0 16 37 | 2°22'39 | 27°39 | 15°17 | 23°57 | 8°56 | 12°40 | 14°12 | 14° 0 | 19°23 | 23°30 | 1°50 | 1°52 | 21°19 | 1°53 | F 25 |
| S 26 | 0 20 33 | 3°21'09 | 9♁46 | 16°56 | 25° 7 | 9°36 | 12°38 | 14°13 | 14° 0 | 19°25 | 23°29 | 1°50 | 1°49 | 21°26 | 1°57 | S 26 |
| S 27 | 0 24 30 | 4°19'41 | 22°10 | 18°33 | 26°17 | 10°16 | 12°35 | 14°14 | 14° 0 | 19°27 | 23°28 | 1°49 | 1°46 | 21°32 | 2° 1 | S 27 |
| M28 | 0 28 26 | 5°18'16 | 4♏56 | 20° 9 | 27°28 | 10°56 | 12°33 | 14°15 | 14° 0 | 19°28 | 23°27 | 1°47 | 1°43 | 21°39 | 2° 5 | M28 |
| T 29 | 0 32 23 | 6°16'52 | 18° 9 | 21°44 | 28°38 | 11°36 | 12°31 | 14°16 | 14° 1 | 19°30 | 23°26 | 1°42 | 1°40 | 21°46 | 2° 9 | T 29 |
| W30 | 0 36 19 | 7♁15'30 | 1♎49 | 23♁18 | 29♏49 | 12♎17 | 12♁29 | 14♁17 | 14♁ 1 | 19♏32 | 23°25 | 1♁34 | 1♁37 | 21♁52 | 2♏13 | W30 |

Delta T = 18m50s

OCTOBER 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|-------|------|------|
| T 1 | 0 40 16 | 8♁14'11 | 15♎57 | 24♁52 | 1♎ 0 | 12♎57 | 12°R28 | 14♁18 | 14♁ 1 | 19♏33 | 23°R24 | 1°R25 | 1♁33 | 21♂59 | 2♏16 | T 1 |
| F 2 | 0 44 12 | 9°12'54 | 0♁29 | 26°24 | 2°11 | 13°37 | 12♁27 | 14°20 | 14° 2 | 19°35 | 23°23 | 1♁13 | 1°30 | 22° 6 | 2°20 | F 2 |
| S 3 | 0 48 9 | 10°11'38 | 15°18 | 27°55 | 3°22 | 14°18 | 12°25 | 14°21 | 14° 2 | 19°36 | 23°21 | 1° 2 | 1°27 | 22°12 | 2°24 | S 3 |
| S 4 | 0 52 6 | 11°10'24 | 0♎17 | 29°26 | 4°33 | 14°59 | 12°25 | 14°23 | 14° 3 | 19°38 | 23°20 | 0°52 | 1°24 | 22°19 | 2°27 | S 4 |
| M 5 | 0 56 2 | 12° 9'13 | 15°14 | 0♎55 | 5°45 | 15°39 | 12°24 | 14°24 | 14° 4 | 19°39 | 23°19 | 0°43 | 1°21 | 22°26 | 2°31 | M 5 |
| T 6 | 0 59 59 | 13° 8'03 | 0♁ 3 | 2°23 | 6°56 | 16°20 | 12°23 | 14°26 | 14° 4 | 19°41 | 23°18 | 0°38 | 1°17 | 22°32 | 2°34 | T 6 |
| W 7 | 1 3 55 | 14° 6'55 | 14°37 | 3°51 | 8° 7 | 17° 1 | 12°23 | 14°28 | 14° 5 | 19°42 | 23°17 | 0°35 | 1°14 | 22°39 | 2°37 | W 7 |
| T 8 | 1 7 52 | 15° 5'48 | 28°51 | 5°17 | 9°19 | 17°42 | 12°D23 | 14°30 | 14° 6 | 19°44 | 23°16 | 0°D34 | 1°11 | 22°46 | 2°40 | T 8 |
| F 9 | 1 11 48 | 16° 4'44 | 12♁45 | 6°42 | 10°31 | 18°22 | 12°23 | 14°32 | 14° 7 | 19°45 | 23°15 | 0°R35 | 1° 8 | 22°52 | 2°44 | F 9 |
| S 10 | 1 15 45 | 17° 3'41 | 26°20 | 8° 7 | 11°42 | 19° 3 | 12°23 | 14°34 | 14° 7 | 19°47 | 23°13 | 0°34 | 1° 5 | 22°59 | 2°47 | S 10 |
| S 11 | 1 19 41 | 18° 2'39 | 9♁36 | 9°30 | 12°54 | 19°44 | 12°24 | 14°36 | 14° 8 | 19°48 | 23°12 | 0°32 | 1° 2 | 23° 6 | 2°50 | S 11 |
| M12 | 1 23 38 | 19° 1'40 | 22°38 | 10°52 | 14° 6 | 20°26 | 12°24 | 14°38 | 14° 9 | 19°49 | 23°11 | 0°28 | 0°58 | 23°12 | 2°52 | M12 |
| T 13 | 1 27 35 | 20° 0'42 | 5♁25 | 12°13 | 15°18 | 21° 7 | 12°25 | 14°41 | 14°10 | 19°51 | 23°10 | 0°21 | 0°55 | 23°19 | 2°55 | T 13 |
| W14 | 1 31 31 | 20°59'46 | 18° 1 | 13°33 | 16°30 | 21°48 | 12°26 | 14°43 | 14°11 | 19°52 | 23° 9 | 0°12 | 0°52 | 23°26 | 2°58 | W14 |
| T 15 | 1 35 28 | 21°58'51 | 0♁27 | 14°52 | 17°42 | 22°29 | 12°27 | 14°46 | 14°12 | 19°53 | 23° 8 | 0° 0 | 0°49 | 23°32 | 3° 1 | T 15 |
| F 16 | 1 39 24 | 22°57'59 | 12°43 | 16°10 | 18°55 | 23°11 | 12°29 | 14°48 | 14°14 | 19°54 | 23° 6 | 29♎48 | 0°46 | 23°39 | 3° 3 | F 16 |
| S 17 | 1 43 21 | 23°57'08 | 24°50 | 17°26 | 20° 7 | 23°52 | 12°30 | 14°51 | 14°15 | 19°56 | 23° 5 | 29°35 | 0°43 | 23°46 | 3° 6 | S 17 |
| S 18 | 1 47 17 | 24°56'20 | 6♁50 | 18°40 | 21°19 | 24°33 | 12°32 | 14°54 | 14°16 | 19°57 | 23° 4 | 29°24 | 0°39 | 23°52 | 3° 8 | S 18 |
| M19 | 1 51 14 | 25°55'33 | 18°43 | 19°53 | 22°32 | 25°15 | 12°34 | 14°57 | 14°17 | 19°58 | 23° 3 | 29°15 | 0°36 | 23°59 | 3°11 | M19 |
| T 20 | 1 55 10 | 26°54'49 | 0♎32 | 21° 5 | 23°45 | 25°57 | 12°36 | 15° 0 | 14°19 | 19°59 | 23° 2 | 29° 9 | 0°33 | 24° 6 | 3°13 | T 20 |
| W21 | 1 59 7 | 27°54'07 | 12°19 | 22°15 | 24°57 | 26°38 | 12°39 | 15° 3 | 14°20 | 20° 0 | 23° 1 | 29° 5 | 0°30 | 24°12 | 3°15 | W21 |
| T 22 | 2 3 3 | 28°53'27 | 24° 8 | 23°22 | 26°10 | 27°20 | 12°41 | 15° 6 | 14°22 | 20° 1 | 22°59 | 29°D 3 | 0°27 | 24°19 | 3°17 | T 22 |
| F 23 | 2 7 0 | 29°52'50 | 6♁ 3 | 24°28 | 27°23 | 28° 2 | 12°44 | 15° 9 | 14°23 | 20° 2 | 22°58 | 29° 3 | 0°23 | 24°26 | 3°19 | F 23 |
| S 24 | 2 10 57 | 0♎52'14 | 18° 9 | 25°32 | 28°36 | 28°44 | 12°47 | 15°13 | 14°25 | 20° 3 | 22°57 | 29° 4 | 0°20 | 24°32 | 3°21 | S 24 |
| S 25 | 2 14 53 | 1°51'41 | 0♏30 | 26°33 | 29°49 | 29°26 | 12°50 | 15°16 | 14°26 | 20° 4 | 22°56 | 29°R 5 | 0°17 | 24°39 | 3°23 | S 25 |
| M26 | 2 18 50 | 2°51'11 | 13°12 | 27°31 | 1♁ 2 | 0♁ 8 | 12°54 | 15°20 | 14°28 | 20° 5 | 22°55 | 29° 4 | 0°14 | 24°46 | 3°24 | M26 |
| T 27 | 2 22 46 | 3°50'42 | 26°20 | 28°27 | 2°15 | 0°50 | 12°57 | 15°23 | 14°30 | 20° 6 | 22°54 | 29° 2 | 0°11 | 24°52 | 3°26 | T 27 |
| W28 | 2 26 43 | 4°50'16 | 9♎56 | 29°19 | 3°28 | 1°32 | 13° 1 | 15°27 | 14°31 | 20° 7 | 22°53 | 28°57 | 0° 8 | 24°59 | 3°28 | W28 |
| T 29 | 2 30 39 | 5°49'52 | 24° 2 | 0♁ 7 | 4°42 | 2°14 | 13° 5 | 15°31 | 14°33 | 20° 8 | 22°52 | 28°50 | 0° 4 | 25° 6 | 3°29 | T 29 |
| F 30 | 2 34 36 | 6°49'30 | 8♁36 | 0°52 | 5°55 | 2°57 | 13° 9 | 15°35 | 14°35 | 20° 8 | 22°50 | 28°43 | 0° 1 | 25°12 | 3°31 | F 30 |
| S 31 | 2 38 32 | 7♎49'10 | 23♁32 | 1♁32 | 7♁ 8 | 3♁39 | 13♁13 | 15♁39 | 14♁37 | 20♏ 9 | 22°49 | 28♎34 | 29♎58 | 25♁19 | 3♏32 | S 31 |

Delta T = 18m51s

ASTRODIENST EPHEMERIS for the year 2578
geocentric

NOVEMBER 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|-------|-------|------|---|-----|
| S 1 | 2 42 29 | 8♄48'52 | 8♄42 | 2♂ 8 | 8♄22 | 4♂21 | 13♃18 | 15♄43 | 14♄39 | 20♄10 | 22°R48 | 28°R27 | 29♄55 | 25♄26 | 3♄33 | S 1 | | |
| M 2 | 2 46 26 | 9°48'36 | 23°57 | 2°38 | 9°35 | 5° 4 | 13°22 | 15°47 | 14°41 | 20°11 | 22°Y47 | 28♄21 | 29°52 | 25°32 | 3°34 | M 2 | | |
| T 3 | 2 50 22 | 10°48'23 | 9♂ 4 | 3° 2 | 10°49 | 5°46 | 13°27 | 15°51 | 14°43 | 20°11 | 22°46 | 28°17 | 29°49 | 25°39 | 3°35 | T 3 | | |
| W 4 | 2 54 19 | 11°48'11 | 23°56 | 3°20 | 12° 2 | 6°29 | 13°32 | 15°55 | 14°45 | 20°12 | 22°45 | 28°D16 | 29°45 | 25°46 | 3°36 | W 4 | | |
| T 5 | 2 58 15 | 12°48'01 | 8♄26 | 3°31 | 13°16 | 7°12 | 13°37 | 15°59 | 14°47 | 20°12 | 22°44 | 28°16 | 29°42 | 25°52 | 3°37 | T 5 | | |
| F 6 | 3 2 12 | 13°47'52 | 22°32 | 3°R34 | 14°30 | 7°55 | 13°43 | 16° 4 | 14°49 | 20°13 | 22°43 | 28°17 | 29°39 | 25°59 | 3°38 | F 6 | | |
| S 7 | 3 6 8 | 14°47'45 | 6♃13 | 3°30 | 15°44 | 8°37 | 13°48 | 16° 8 | 14°51 | 20°14 | 22°42 | 28°19 | 29°36 | 26° 6 | 3°38 | S 7 | | |
| S 8 | 3 10 5 | 15°47'40 | 19°30 | 3°16 | 16°58 | 9°20 | 13°54 | 16°13 | 14°54 | 20°14 | 22°41 | 28°R19 | 29°33 | 26°12 | 3°39 | S 8 | | |
| M 9 | 3 14 1 | 16°47'36 | 2♂26 | 2°53 | 18°11 | 10° 3 | 14° 0 | 16°17 | 14°56 | 20°15 | 22°40 | 28°17 | 29°29 | 26°19 | 3°39 | M 9 | | |
| T 10 | 3 17 58 | 17°47'33 | 15° 5 | 2°21 | 19°25 | 10°46 | 14° 6 | 16°22 | 14°58 | 20°15 | 22°38 | 28°14 | 29°26 | 26°26 | 3°40 | T 10 | | |
| W11 | 3 21 55 | 18°47'33 | 27°30 | 1°39 | 20°39 | 11°29 | 14°12 | 16°27 | 15° 0 | 20°15 | 22°37 | 28° 9 | 29°23 | 26°32 | 3°40 | W11 | | |
| T 12 | 3 25 51 | 19°47'34 | 9♂43 | 0°48 | 21°53 | 12°12 | 14°18 | 16°32 | 15° 3 | 20°16 | 22°36 | 28° 3 | 29°20 | 26°39 | 3°40 | T 12 | | |
| F 13 | 3 29 48 | 20°47'36 | 21°48 | 29♄48 | 23° 8 | 12°56 | 14°25 | 16°37 | 15° 5 | 20°16 | 22°35 | 27°56 | 29°17 | 26°46 | 3°40 | F 13 | | |
| S 14 | 3 33 44 | 21°47'40 | 3♄45 | 28°41 | 24°22 | 13°39 | 14°31 | 16°42 | 15° 8 | 20°16 | 22°34 | 27°49 | 29°14 | 26°52 | 3°R40 | S 14 | | |
| S 15 | 3 37 41 | 22°47'47 | 15°38 | 27°28 | 25°36 | 14°22 | 14°38 | 16°47 | 15°10 | 20°17 | 22°33 | 27°43 | 29°10 | 26°59 | 3°40 | S 15 | | |
| M16 | 3 41 37 | 23°47'54 | 27°28 | 26°11 | 26°50 | 15° 5 | 14°45 | 16°52 | 15°13 | 20°17 | 22°32 | 27°38 | 29° 7 | 27° 6 | 3°40 | M16 | | |
| T 17 | 3 45 34 | 24°48'04 | 9♄17 | 24°51 | 28° 4 | 15°49 | 14°52 | 16°57 | 15°15 | 20°17 | 22°32 | 27°34 | 29° 4 | 27°12 | 3°40 | T 17 | | |
| W18 | 3 49 30 | 25°48'15 | 21° 6 | 23°33 | 29°19 | 16°32 | 15° 0 | 17° 2 | 15°18 | 20°17 | 22°31 | 27°33 | 29° 1 | 27°19 | 3°39 | W18 | | |
| T 19 | 3 53 27 | 26°48'29 | 2♄59 | 22°17 | 0♄33 | 17°16 | 15° 7 | 17° 7 | 15°21 | 20°17 | 22°30 | 27°D32 | 28°58 | 27°26 | 3°39 | T 19 | | |
| F 20 | 3 57 24 | 27°48'44 | 14°58 | 21° 7 | 1°47 | 18° 0 | 15°15 | 17°13 | 15°23 | 20°18 | 22°29 | 27°34 | 28°54 | 27°32 | 3°38 | F 20 | | |
| S 21 | 4 1 20 | 28°49'01 | 27° 7 | 20° 5 | 3° 2 | 18°43 | 15°22 | 17°18 | 15°26 | 20°18 | 22°28 | 27°35 | 28°51 | 27°39 | 3°38 | S 21 | | |
| S 22 | 4 5 17 | 29°49'20 | 9♄29 | 19°12 | 4°16 | 19°27 | 15°30 | 17°24 | 15°29 | 20°R18 | 22°27 | 27°37 | 28°48 | 27°46 | 3°37 | S 22 | | |
| M23 | 4 9 13 | 0♂49'41 | 22°10 | 18°30 | 5°31 | 20°11 | 15°38 | 17°29 | 15°32 | 20°18 | 22°26 | 27°38 | 28°45 | 27°52 | 3°36 | M23 | | |
| T 24 | 4 13 10 | 1°50'04 | 5♄12 | 18° 0 | 6°45 | 20°55 | 15°47 | 17°35 | 15°34 | 20°18 | 22°25 | 27°R39 | 28°42 | 27°59 | 3°35 | T 24 | | |
| W25 | 4 17 6 | 2°50'29 | 18°39 | 17°41 | 8° 0 | 21°39 | 15°55 | 17°40 | 15°37 | 20°17 | 22°24 | 27°38 | 28°39 | 28° 6 | 3°34 | W25 | | |
| T 26 | 4 21 3 | 3°50'55 | 2♄34 | 17°D34 | 9°15 | 22°23 | 16° 3 | 17°46 | 15°40 | 20°17 | 22°24 | 27°36 | 28°35 | 28°12 | 3°33 | T 26 | | |
| F 27 | 4 24 59 | 4°51'23 | 16°56 | 17°38 | 10°29 | 23° 7 | 16°12 | 17°52 | 15°43 | 20°17 | 22°23 | 27°33 | 28°32 | 28°19 | 3°32 | F 27 | | |
| S 28 | 4 28 56 | 5°51'54 | 1♄41 | 17°52 | 11°44 | 23°51 | 16°21 | 17°58 | 15°46 | 20°17 | 22°22 | 27°30 | 28°29 | 28°26 | 3°31 | S 28 | | |
| S 29 | 4 32 53 | 6°52'25 | 16°45 | 18°16 | 12°59 | 24°35 | 16°30 | 18° 4 | 15°49 | 20°17 | 22°21 | 27°27 | 28°26 | 28°32 | 3°29 | S 29 | | |
| M30 | 4 36 49 | 7♂52'59 | 1♂58 | 18♄49 | 14♄14 | 25♂19 | 16♃39 | 18♄10 | 15♄52 | 20♄17 | 22°Y20 | 27°II25 | 28°II23 | 28♄39 | 3♄28 | M30 | | |

Delta T = 18m51s

DECEMBER 2578

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|-------|-------|------|---|-----|
| T 1 | 4 40 46 | 8♂53'34 | 17♂11 | 19♄30 | 15♄28 | 26♂ 3 | 16♃48 | 18♄16 | 15♄55 | 20°R16 | 22°R20 | 27°R24 | 28♄20 | 28♄46 | 3°R26 | T 1 | | |
| W 2 | 4 44 42 | 9°54'11 | 2♄13 | 20°18 | 16°43 | 26°48 | 16°57 | 18°22 | 15°58 | 20♄16 | 22°Y19 | 27°D23 | 28°16 | 28°52 | 3♄25 | W 2 | | |
| T 3 | 4 48 39 | 10°54'49 | 16°57 | 21°12 | 17°58 | 27°32 | 17° 6 | 18°28 | 16° 1 | 20°16 | 22°18 | 27°II24 | 28°13 | 28°59 | 3°23 | T 3 | | |
| F 4 | 4 52 35 | 11°55'28 | 1♃17 | 22°12 | 19°13 | 28°17 | 17°16 | 18°34 | 16° 4 | 20°15 | 22°17 | 27°25 | 28°10 | 29° 6 | 3°21 | F 4 | | |
| S 5 | 4 56 32 | 12°56'08 | 15°10 | 23°16 | 20°28 | 29° 1 | 17°26 | 18°40 | 16° 7 | 20°15 | 22°17 | 27°26 | 28° 7 | 29°12 | 3°19 | S 5 | | |
| S 6 | 5 0 29 | 13°56'49 | 28°36 | 24°25 | 21°43 | 29°46 | 17°35 | 18°46 | 16°11 | 20°14 | 22°16 | 27°27 | 28° 4 | 29°19 | 3°17 | S 6 | | |
| M 7 | 5 4 25 | 14°57'32 | 11♂37 | 25°37 | 22°58 | 0♄30 | 17°45 | 18°52 | 16°14 | 20°14 | 22°15 | 27°R28 | 28° 0 | 29°26 | 3°15 | M 7 | | |
| T 8 | 5 8 22 | 15°58'15 | 24°16 | 26°52 | 24°13 | 1°15 | 17°55 | 18°59 | 16°17 | 20°13 | 22°15 | 27°28 | 27°57 | 29°32 | 3°13 | T 8 | | |
| W 9 | 5 12 18 | 16°58'59 | 6♂38 | 28° 9 | 25°28 | 2° 0 | 18° 5 | 19° 5 | 16°20 | 20°13 | 22°14 | 27°27 | 27°54 | 29°39 | 3°11 | W 9 | | |
| T 10 | 5 16 15 | 17°59'44 | 18°45 | 29°29 | 26°43 | 2°44 | 18°16 | 19°11 | 16°23 | 20°12 | 22°14 | 27°26 | 27°51 | 29°46 | 3° 9 | T 10 | | |
| F 11 | 5 20 11 | 19° 0'30 | 0♄43 | 0♂51 | 27°58 | 3°29 | 18°26 | 19°18 | 16°27 | 20°12 | 22°13 | 27°25 | 27°48 | 29°52 | 3° 6 | F 11 | | |
| S 12 | 5 24 8 | 20° 1'17 | 12°35 | 2°14 | 29°13 | 4°14 | 18°37 | 19°24 | 16°30 | 20°11 | 22°13 | 27°24 | 27°45 | 29°59 | 3° 4 | S 12 | | |
| S 13 | 5 28 4 | 21° 2'05 | 24°24 | 3°39 | 0♂28 | 4°59 | 18°47 | 19°31 | 16°33 | 20°10 | 22°12 | 27°23 | 27°41 | 0♄ 6 | 3° 1 | S 13 | | |
| M14 | 5 32 1 | 22° 2'54 | 6♄13 | 5° 4 | 1°43 | 5°44 | 18°58 | 19°37 | 16°37 | 20°10 | 22°12 | 27°22 | 27°38 | 0°12 | 2°59 | M14 | | |
| T 15 | 5 35 58 | 23° 3'44 | 18° 4 | 6°31 | 2°58 | 6°29 | 19° 9 | 19°44 | 16°40 | 20° 9 | 22°11 | 27°22 | 27°35 | 0°19 | 2°56 | T 15 | | |
| W16 | 5 39 54 | 24° 4'35 | 29°59 | 7°59 | 4°13 | 7°14 | 19°20 | 19°50 | 16°43 | 20° 8 | 22°11 | 27°D22 | 27°32 | 0°26 | 2°53 | W16 | | |
| T 17 | 5 43 51 | 25° 5'28 | 12♄ 1 | 9°27 | 5°28 | 7°59 | 19°31 | 19°57 | 16°47 | 20° 7 | 22°10 | 27°22 | 27°29 | 0°32 | 2°50 | T 17 | | |
| F 18 | 5 47 47 | 26° 6'21 | 24°12 | 10°56 | 6°43 | 8°45 | 19°42 | 20° 4 | 16°50 | 20° 7 | 22°10 | 27°22 | 27°26 | 0°39 | 2°47 | F 18 | | |
| S 19 | 5 51 44 | 27° 7'15 | 6♄32 | 12°26 | 7°58 | 9°30 | 19°53 | 20°10 | 16°54 | 20° 6 | 22° 9 | 27°R22 | 27°22 | 0°46 | 2°44 | S 19 | | |
| S 20 | 5 55 40 | 28° 8'11 | 19° 5 | 13°56 | 9°13 | 10°15 | 20° 4 | 20°17 | 16°57 | 20° 5 | 22° 9 | 27°22 | 27°19 | 0°52 | 2°41 | S 20 | | |
| M21 | 5 59 37 | 29° 9'07 | 1♄52 | 15°26 | 10°29 | 11° 1 | 20°16 | 20°24 | 17° 1 | 20° 4 | 22° 9 | 27°22 | 27°16 | 0°59 | 2°38 | M21 | | |
| T 22 | 6 3 33 | 0♄10'05 | 14°56 | 16°57 | 11°44 | 11°46 | 20°27 | 20°31 | 17° 4 | 20° 3 | 22° 8 | 27°21 | 27°13 | 1° 6 | 2°35 | T 22 | | |
| W23 | 6 7 30 | 1°11'03 | 28°19 | 18°28 | 12°59 | 12°31 | 20°39 | 20°37 | 17° 8 | 20° 2 | 22° 8 | 27°D21 | 27°10 | 1°12 | 2°32 | W23 | | |
| T 24 | 6 11 27 | 2°12'03 | 12♄ 3 | 19°59 | 14°14 | 13°17 | 20°50 | 20°44 | 17°11 | 20° 1 | 22° 8 | 27°21 | 27° 6 | 1°19 | 2°29 | T 24 | | |
| F 25 | 6 15 23 | 3°13'03 | 26° 9 | 21°31 | 15°29 | 14° 2 | 21° 2 | 20°51 | 17°15 | 20° 0 | 22° 7 | 27°22 | 27° 3 | 1°26 | 2°25 | F 25 | | |
| S 26 | 6 19 20 | 4°14'05 | 10♄34 | 23° 3 | 16°45 | 14°48 | 21°14 | 20°58 | 17°18 | 19°59 | 22° 7 | 27°22 | 27° 0 | 1°32 | 2°22 | S 26 | | |
| S 27 | 6 23 16 | 5°15'08 | 25°16 | 24°35 | 18° 0 | 15°34 | 21°26 | 21° 5 | 17°22 | 19°58 | 22° 7 | 27°23 | 26°57 | 1°39 | 2°18 | S 27 | | |
| M28 | 6 27 13 | 6°16'12 | 10♂10 | 26° 7 | 19°15 | 16°19 | 21°38 | 21°12 | 17°25 | 19°57 | 22° 7 | 27°24 | 26°54 | 1°46 | 2°15 | M28 | | |
| T 29 | 6 31 9 | 7°17'16 | 25° 9 | 27°40 | 20°31 | 17° 5 | 21°50 | 21°19 | 17°29 | 19°56 | 22° 7 | 27°R24 | 26°51 | 1°52 | 2°11 | T 29 | | |
| W30 | 6 35 6 | 8°18'21 | 10♄ 5 | 29°12 | 21°46 | 17°51 | 22° 3 | 21°26 | 17°32 | 19°55 | 22° 6 | 27°24 | 26°47 | 1°59 | 2° 8 | W30 | | |
| T 31 | 6 39 2 | 9♄19'27 | 24♄49 | 0♄45 | 23♂ 1 | 18♄37 | 22♃15 | 21♄33 | 17♄36 | 19♄53 | 22°Y 6 | 27°II23 | 26°II44 | 2♄ 6 | 2♄ 4 | T 31 | | |

Delta T = 18m51s

ASTRODIENST EPHEMERIS for the year 2579
geocentric

JANUARY 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|-------|------|---|---|---|---|---|---|---|-----|
| F 1 | 6 42 59 | 10♁20'33 | 9♁14 | 2♁18 | 24♁17 | 19♁23 | 22♁27 | 21♁40 | 17♁39 | 19♁R52 | 22♁R 6 | 27♁R21 | 26♁II41 | 2♁II12 | 2♁R 0 | F 1 | | | | | | | | |
| S 2 | 6 46 56 | 11°21'39 | 23°15 | 3°51 | 25°32 | 20° 9 | 22°40 | 21°47 | 17°43 | 19♁L51 | 22♁Y 6 | 27♁II20 | 26°38 | 2°19 | 1♁L56 | S 2 | | | | | | | | |
| S 3 | 6 50 52 | 12°22'46 | 6♁50 | 5°25 | 26°47 | 20°55 | 22°52 | 21°54 | 17°47 | 19°50 | 22° 6 | 27°18 | 26°35 | 2°26 | 1°53 | S 3 | | | | | | | | |
| M 4 | 6 54 49 | 13°23'52 | 19°59 | 6°58 | 28° 2 | 21°41 | 23° 5 | 22° 1 | 17°50 | 19°48 | 22° 6 | 27°16 | 26°32 | 2°32 | 1°49 | M 4 | | | | | | | | |
| T 5 | 6 58 45 | 14°24'59 | 2♁Y44 | 8°32 | 29°18 | 22°27 | 23°17 | 22° 8 | 17°54 | 19°47 | 22°D 6 | 27°15 | 26°28 | 2°39 | 1°45 | T 5 | | | | | | | | |
| W 6 | 7 2 42 | 15°26'06 | 15° 8 | 10° 6 | 0♁33 | 23°13 | 23°30 | 22°15 | 17°57 | 19°46 | 22° 6 | 27°D14 | 26°25 | 2°46 | 1°41 | W 6 | | | | | | | | |
| T 7 | 7 6 38 | 16°27'12 | 27°16 | 11°41 | 1°48 | 23°59 | 23°43 | 22°22 | 18° 1 | 19°44 | 22° 6 | 27°15 | 26°22 | 2°52 | 1°37 | T 7 | | | | | | | | |
| F 8 | 7 10 35 | 17°28'19 | 9♁12 | 13°16 | 3° 4 | 24°45 | 23°56 | 22°29 | 18° 5 | 19°43 | 22° 6 | 27°16 | 26°19 | 2°59 | 1°33 | F 8 | | | | | | | | |
| S 9 | 7 14 31 | 18°29'25 | 21° 2 | 14°51 | 4°19 | 25°31 | 24° 9 | 22°36 | 18° 8 | 19°42 | 22° 6 | 27°17 | 26°16 | 3° 6 | 1°29 | S 9 | | | | | | | | |
| S 10 | 7 18 28 | 19°30'32 | 2♁II50 | 16°26 | 5°35 | 26°18 | 24°22 | 22°43 | 18°12 | 19°40 | 22° 6 | 27°19 | 26°12 | 3°12 | 1°25 | S 10 | | | | | | | | |
| M11 | 7 22 25 | 20°31'39 | 14°39 | 18° 1 | 6°50 | 27° 4 | 24°35 | 22°50 | 18°15 | 19°39 | 22° 6 | 27°21 | 26° 9 | 3°19 | 1°21 | M11 | | | | | | | | |
| T 12 | 7 26 21 | 21°32'45 | 26°35 | 19°37 | 8° 5 | 27°50 | 24°48 | 22°57 | 18°19 | 19°38 | 22° 6 | 27°R21 | 26° 6 | 3°26 | 1°17 | T 12 | | | | | | | | |
| W13 | 7 30 18 | 22°33'52 | 8♁39 | 21°14 | 9°21 | 28°37 | 25° 1 | 23° 4 | 18°23 | 19°36 | 22° 7 | 27°21 | 26° 3 | 3°32 | 1°13 | W13 | | | | | | | | |
| T 14 | 7 34 14 | 23°34'58 | 20°53 | 22°50 | 10°36 | 29°23 | 25°15 | 23°11 | 18°26 | 19°35 | 22° 7 | 27°19 | 26° 0 | 3°39 | 1° 8 | T 14 | | | | | | | | |
| F 15 | 7 38 11 | 24°36'04 | 3♁L19 | 24°27 | 11°51 | 0♁ 9 | 25°28 | 23°09 | 18°30 | 19°33 | 22° 7 | 27°15 | 25°57 | 3°45 | 1° 4 | F 15 | | | | | | | | |
| S 16 | 7 42 7 | 25°37'11 | 15°58 | 26° 5 | 13° 7 | 0°56 | 25°41 | 23°26 | 18°33 | 19°32 | 22° 7 | 27°11 | 25°53 | 3°52 | 1° 0 | S 16 | | | | | | | | |
| S 17 | 7 46 4 | 26°38'17 | 28°51 | 27°43 | 14°22 | 1°42 | 25°55 | 23°33 | 18°37 | 19°30 | 22° 7 | 27° 6 | 25°50 | 3°59 | 0°56 | S 17 | | | | | | | | |
| M18 | 7 50 1 | 27°39'23 | 11♁56 | 29°21 | 15°37 | 2°29 | 26° 8 | 23°40 | 18°41 | 19°29 | 22° 8 | 27° 1 | 25°47 | 4° 5 | 0°52 | M18 | | | | | | | | |
| T 19 | 7 53 57 | 28°40'29 | 25°14 | 1♁ 0 | 16°53 | 3°16 | 26°22 | 23°47 | 18°44 | 19°27 | 22° 8 | 26°56 | 25°44 | 4°12 | 0°47 | T 19 | | | | | | | | |
| W20 | 7 57 54 | 29°41'36 | 8♁45 | 2°39 | 18° 8 | 4° 2 | 26°35 | 23°54 | 18°48 | 19°25 | 22° 8 | 26°53 | 25°41 | 4°19 | 0°43 | W20 | | | | | | | | |
| T 21 | 8 1 50 | 0♁42'42 | 22°29 | 4°18 | 19°24 | 4°49 | 26°49 | 24° 1 | 18°51 | 19°24 | 22° 9 | 26°51 | 25°38 | 4°25 | 0°39 | T 21 | | | | | | | | |
| F 22 | 8 5 47 | 1°43'48 | 6♁L25 | 5°58 | 20°39 | 5°36 | 27° 2 | 24° 8 | 18°55 | 19°22 | 22° 9 | 26°D51 | 25°34 | 4°32 | 0°35 | F 22 | | | | | | | | |
| S 23 | 8 9 43 | 2°44'54 | 20°34 | 7°39 | 21°54 | 6°22 | 27°16 | 24°15 | 18°58 | 19°21 | 22° 9 | 26°52 | 25°31 | 4°39 | 0°31 | S 23 | | | | | | | | |
| S 24 | 8 13 40 | 3°46'01 | 4♁753 | 9°19 | 23°10 | 7° 9 | 27°30 | 24°22 | 19° 2 | 19°19 | 22°10 | 26°54 | 25°28 | 4°45 | 0°26 | S 24 | | | | | | | | |
| M25 | 8 17 36 | 4°47'07 | 19°21 | 11° 0 | 24°25 | 7°56 | 27°44 | 24°29 | 19° 5 | 19°17 | 22°10 | 26°55 | 25°25 | 4°52 | 0°22 | M25 | | | | | | | | |
| T 26 | 8 21 33 | 5°48'13 | 3♁53 | 12°42 | 25°40 | 8°43 | 27°58 | 24°36 | 19° 9 | 19°16 | 22°11 | 26°R55 | 25°22 | 4°59 | 0°18 | T 26 | | | | | | | | |
| W27 | 8 25 30 | 6°49'19 | 18°26 | 14°24 | 26°56 | 9°29 | 28°11 | 24°43 | 19°12 | 19°14 | 22°11 | 26°53 | 25°18 | 5° 5 | 0°14 | W27 | | | | | | | | |
| T 28 | 8 29 26 | 7°50'25 | 2♁52 | 16° 6 | 28°11 | 10°16 | 28°25 | 24°50 | 19°16 | 19°13 | 22°12 | 26°49 | 25°15 | 5°12 | 0° 9 | T 28 | | | | | | | | |
| F 29 | 8 33 23 | 8°51'30 | 17° 6 | 17°48 | 29°27 | 11° 3 | 28°39 | 24°57 | 19°19 | 19°11 | 22°12 | 26°43 | 25°12 | 5°19 | 0° 5 | F 29 | | | | | | | | |
| S 30 | 8 37 19 | 9°52'34 | 1♁ 3 | 19°31 | 0♁42 | 11°50 | 28°53 | 25° 4 | 19°23 | 19° 9 | 22°13 | 26°36 | 25° 9 | 5°25 | 0° 1 | S 30 | | | | | | | | |
| S 31 | 8 41 16 | 10♁53'37 | 14♁38 | 21♁13 | 1♁57 | 12♁37 | 29♁ 7 | 25♁11 | 19♁26 | 19♁L 8 | 22♁Y13 | 26♁II28 | 25♁II 6 | 5♁II32 | 29♁57 | S 31 | | | | | | | | |

Delta T = 18m51s

FEBRUARY 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|---------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|--------|------|---|---|---|---|---|---|---|-----|
| M 1 | 8 45 12 | 11♁54'40 | 27♁49 | 22♁56 | 3♁13 | 13♁24 | 29♁21 | 25♁18 | 19♁30 | 19°R 6 | 22°Y14 | 26°R21 | 25°II 3 | 5°II39 | 29°R53 | M 1 | | | | | | | | |
| T 2 | 8 49 9 | 12°55'41 | 10°Y38 | 24°38 | 4°28 | 14°11 | 29°36 | 25°25 | 19°33 | 19°L 4 | 22°15 | 26°II14 | 24°59 | 5°45 | 29°549 | T 2 | | | | | | | | |
| W 3 | 8 53 5 | 13°56'42 | 23° 5 | 26°20 | 5°44 | 14°58 | 29°50 | 25°32 | 19°36 | 19° 3 | 22°15 | 26°10 | 24°56 | 5°52 | 29°45 | W 3 | | | | | | | | |
| T 4 | 8 57 2 | 14°57'42 | 5♁15 | 28° 1 | 6°59 | 15°45 | 0♁ 4 | 25°38 | 19°40 | 19° 1 | 22°16 | 26° 7 | 24°53 | 5°59 | 29°41 | T 4 | | | | | | | | |
| F 5 | 9 0 59 | 15°58'40 | 17°13 | 29°42 | 8°14 | 16°32 | 0°18 | 25°45 | 19°43 | 18°59 | 22°17 | 26°D 7 | 24°50 | 6° 5 | 29°37 | F 5 | | | | | | | | |
| S 6 | 9 4 55 | 16°59'38 | 29° 3 | 1♁21 | 9°30 | 17°19 | 0°32 | 25°52 | 19°46 | 18°57 | 22°17 | 26° 7 | 24°47 | 6°12 | 29°33 | S 6 | | | | | | | | |
| S 7 | 9 8 52 | 18° 0'34 | 10°II50 | 2°59 | 10°45 | 18° 7 | 0°46 | 25°59 | 19°50 | 18°56 | 22°18 | 26° 9 | 24°44 | 6°19 | 29°29 | S 7 | | | | | | | | |
| M 8 | 9 12 48 | 19° 1'30 | 22°41 | 4°36 | 12° 0 | 18°54 | 1° 1 | 26° 6 | 19°53 | 18°54 | 22°19 | 26°R10 | 24°40 | 6°25 | 29°25 | M 8 | | | | | | | | |
| T 9 | 9 16 45 | 20° 2'24 | 4♁40 | 6°10 | 13°16 | 19°41 | 1°15 | 26°12 | 19°56 | 18°52 | 22°19 | 26° 9 | 24°37 | 6°32 | 29°21 | T 9 | | | | | | | | |
| W10 | 9 20 41 | 21° 3'17 | 16°51 | 7°42 | 14°31 | 20°28 | 1°29 | 26°19 | 19°59 | 18°51 | 22°20 | 26° 7 | 24°34 | 6°38 | 29°17 | W10 | | | | | | | | |
| T 11 | 9 24 38 | 22° 4'09 | 29°16 | 9°10 | 15°46 | 21°15 | 1°43 | 26°26 | 20° 3 | 18°49 | 22°21 | 26° 2 | 24°31 | 6°45 | 29°13 | T 11 | | | | | | | | |
| F 12 | 9 28 34 | 23° 5'00 | 11♁L59 | 10°34 | 17° 2 | 22° 2 | 1°58 | 26°32 | 20° 6 | 18°47 | 22°22 | 25°55 | 24°28 | 6°52 | 29°10 | F 12 | | | | | | | | |
| S 13 | 9 32 31 | 24° 5'50 | 24°59 | 11°55 | 18°17 | 22°50 | 2°12 | 26°39 | 20° 9 | 18°46 | 22°23 | 25°46 | 24°24 | 6°58 | 29° 6 | S 13 | | | | | | | | |
| S 14 | 9 36 28 | 25° 6'38 | 8♁15 | 13°10 | 19°32 | 23°37 | 2°26 | 26°45 | 20°12 | 18°44 | 22°23 | 25°35 | 24°21 | 7° 5 | 29° 2 | S 14 | | | | | | | | |
| M15 | 9 40 24 | 26° 7'26 | 21°46 | 14°19 | 20°47 | 24°24 | 2°41 | 26°52 | 20°15 | 18°42 | 22°24 | 25°24 | 24°18 | 7°12 | 28°59 | M15 | | | | | | | | |
| T 16 | 9 44 21 | 27° 8'12 | 5♁29 | 15°21 | 22° 3 | 25°11 | 2°55 | 26°58 | 20°18 | 18°41 | 22°25 | 25°14 | 24°15 | 7°18 | 28°55 | T 16 | | | | | | | | |
| W17 | 9 48 17 | 28° 8'57 | 19°20 | 16°17 | 23°18 | 25°59 | 3°10 | 27° 5 | 20°21 | 18°39 | 22°26 | 25° 7 | 24°12 | 7°25 | 28°52 | W17 | | | | | | | | |
| T 18 | 9 52 14 | 29° 9'42 | 3♁L18 | 17° 4 | 24°33 | 26°46 | 3°24 | 27°11 | 20°24 | 18°37 | 22°27 | 25° 1 | 24° 9 | 7°32 | 28°48 | T 18 | | | | | | | | |
| F 19 | 9 56 10 | 0♁10'25 | 17°20 | 17°42 | 25°48 | 27°33 | 3°38 | 27°17 | 20°27 | 18°36 | 22°28 | 24°58 | 24° 5 | 7°38 | 28°45 | F 19 | | | | | | | | |
| S 20 | 10 0 7 | 1°11'08 | 1♁24 | 18°11 | 27° 4 | 28°20 | 3°53 | 27°24 | 20°30 | 18°34 | 22°29 | 24°D58 | 24° 2 | 7°45 | 28°42 | S 20 | | | | | | | | |
| S 21 | 10 4 3 | 2°11'50 | 15°30 | 18°29 | 28°19 | 29° 8 | 4° 7 | 27°30 | 20°33 | 18°32 | 22°30 | 24°58 | 23°59 | 7°52 | 28°38 | S 21 | | | | | | | | |
| M22 | 10 8 0 | 3°12'30 | 18°R38 | 29°34 | 29°55 | 4°22 | 27°36 | 27°36 | 20°36 | 18°31 | 22°31 | 24°R58 | 23°56 | 7°58 | 28°35 | M22 | | | | | | | | |
| T 23 | 10 11 57 | 4°13'10 | 13♁44 | 18°35 | 0♁49 | 0♁42 | 4°36 | 27°42 | 20°39 | 18°29 | 22°32 | 24°57 | 23°53 | 8° 5 | 28°32 | T 23 | | | | | | | | |
| W24 | 10 15 53 | 5°13'49 | 27°48 | 18°22 | 2° 5 | 1°30 | 4°50 | 27°49 | 20°42 | 18°27 | 22°33 | 24°53 | 23°50 | 8°12 | 28°29 | W24 | | | | | | | | |
| T 25 | 10 19 50 | 6°14'26 | 11♁48 | 17°59 | 3°20 | 2°17 | 5° 5 | 27°55 | 20°44 | 18°26 | 22°34 | 24°46 | 23°46 | 8°18 | 28°26 | T 25 | | | | | | | | |
| F 26 | 10 23 46 | 7°15'02 | 25°38 | 17°26 | 4°35 | 3° 5 | 5°19 | 28° 1 | 20°47 | 18°24 | 22°35 | 24°37 | 23°43 | 8°25 | 28°23 | F 26 | | | | | | | | |
| S 27 | 10 27 43 | 8°15'36 | 9♁16 | 16°44 | 5°50 | 3°52 | 5°34 | 28° 7 | 20°50 | 18°23 | 22°36 | 24°25 | 23°40 | 8°32 | 28°20 | S 27 | | | | | | | | |
| S 28 | 10 31 39 | 9♁16'09 | 22♁38 | 15♁55 | 7♁ 6 | 4♁39 | 5♁48 | 28♁13 | 20♁53 | 18♁L21 | 22°Y37 | 24°II12 | 23°II37 | 8°II38 | 28♁17 | S 28 | | | | | | | | |

Delta T = 18m52s

ASTRODIENST EPHEMERIS for the year 2579
geocentric

MARCH 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|------|-----|
| M 1 | 10 35 36 | 10♋1641 | 5♃41 | 14°R59 | 8♂21 | 5♃27 | 6♁ 3 | 28♁19 | 20♁55 | 18°R20 | 22♃38 | 23°R59 | 23♁34 | 8♁45 | 28°R15 | M 1 | |
| T 2 | 10 39 32 | 11°17'10 | 18°26 | 13♋57 | 9°36 | 6°14 | 6°17 | 28°24 | 20°58 | 18♁18 | 22°39 | 23♁48 | 23°30 | 8°51 | 28°E12 | T 2 | |
| W 3 | 10 43 29 | 12°17'38 | 0♃52 | 12°53 | 10°51 | 7° 1 | 6°31 | 28°30 | 21° 0 | 18°17 | 22°41 | 23°39 | 23°27 | 8°58 | 28° 9 | W 3 | |
| T 4 | 10 47 25 | 13°18'04 | 13° 2 | 11°47 | 12° 6 | 7°49 | 6°46 | 28°36 | 21° 3 | 18°15 | 22°42 | 23°33 | 23°24 | 9° 5 | 28° 7 | T 4 | |
| F 5 | 10 51 22 | 14°18'29 | 25° 0 | 10°41 | 13°21 | 8°36 | 7° 0 | 28°42 | 21° 6 | 18°14 | 22°43 | 23°29 | 23°21 | 9°11 | 28° 5 | F 5 | |
| S 6 | 10 55 19 | 15°18'51 | 6♁50 | 9°36 | 14°36 | 9°24 | 7°14 | 28°47 | 21° 8 | 18°12 | 22°44 | 23°28 | 23°18 | 9°18 | 28° 2 | S 6 | |
| S 7 | 10 59 15 | 16°19'12 | 18°37 | 8°35 | 15°51 | 10°11 | 7°29 | 28°53 | 21°10 | 18°11 | 22°45 | 23°28 | 23°15 | 9°25 | 28° 0 | S 7 | |
| M 8 | 11 3 12 | 17°19'31 | 0♁28 | 7°38 | 17° 6 | 10°58 | 7°43 | 28°58 | 21°13 | 18° 9 | 22°46 | 23°28 | 23°11 | 9°31 | 27°58 | M 8 | |
| T 9 | 11 7 8 | 18°19'48 | 12°28 | 6°46 | 18°22 | 11°46 | 7°57 | 29° 4 | 21°15 | 18° 8 | 22°48 | 23°27 | 23° 8 | 9°38 | 27°56 | T 9 | |
| W10 | 11 11 5 | 19°20'03 | 24°41 | 6° 0 | 19°37 | 12°33 | 8°12 | 29° 9 | 21°18 | 18° 6 | 22°49 | 23°24 | 23° 5 | 9°45 | 27°54 | W10 | |
| T 11 | 11 15 1 | 20°20'16 | 7♁13 | 5°21 | 20°52 | 13°21 | 8°26 | 29°14 | 21°20 | 18° 5 | 22°50 | 23°18 | 23° 2 | 9°51 | 27°52 | T 11 | |
| F 12 | 11 18 58 | 21°20'27 | 20° 6 | 4°48 | 22° 7 | 14° 8 | 8°40 | 29°20 | 21°22 | 18° 4 | 22°51 | 23° 9 | 22°59 | 9°58 | 27°50 | F 12 | |
| S 13 | 11 22 54 | 22°20'36 | 3♁21 | 4°23 | 23°22 | 14°55 | 8°55 | 29°25 | 21°24 | 18° 2 | 22°53 | 22°58 | 22°56 | 10° 5 | 27°48 | S 13 | |
| S 14 | 11 26 51 | 23°20'43 | 16°58 | 4° 4 | 24°37 | 15°43 | 9° 9 | 29°30 | 21°26 | 18° 1 | 22°54 | 22°46 | 22°52 | 10°11 | 27°47 | S 14 | |
| M15 | 11 30 48 | 24°20'48 | 0♁54 | 3°53 | 25°52 | 16°30 | 9°23 | 29°35 | 21°28 | 18° 0 | 22°55 | 22°33 | 22°49 | 10°18 | 27°45 | M15 | |
| T 16 | 11 34 44 | 25°20'51 | 15° 4 | 3°D48 | 27° 6 | 17°17 | 9°37 | 29°40 | 21°31 | 17°58 | 22°56 | 22°22 | 22°46 | 10°25 | 27°44 | T 16 | |
| W17 | 11 38 41 | 26°20'53 | 29°23 | 3°49 | 28°21 | 18° 5 | 9°51 | 29°45 | 21°33 | 17°57 | 22°58 | 22°12 | 22°43 | 10°31 | 27°42 | W17 | |
| T 18 | 11 42 37 | 27°20'53 | 13♁45 | 3°57 | 29°36 | 18°52 | 10° 5 | 29°50 | 21°35 | 17°56 | 22°59 | 22° 5 | 22°40 | 10°38 | 27°41 | T 18 | |
| F 19 | 11 46 34 | 28°20'52 | 28° 5 | 4°10 | 0♃51 | 19°39 | 10°19 | 29°54 | 21°36 | 17°55 | 23° 0 | 22° 1 | 22°36 | 10°44 | 27°40 | F 19 | |
| S 20 | 11 50 30 | 29°20'49 | 12♁21 | 4°29 | 2° 6 | 20°27 | 10°33 | 29°59 | 21°38 | 17°53 | 23° 2 | 22° 0 | 22°33 | 10°51 | 27°39 | S 20 | |
| S 21 | 11 54 27 | 0♃20'44 | 26°29 | 4°53 | 3°21 | 21°14 | 10°48 | 0♁ 4 | 21°40 | 17°52 | 23° 3 | 22° 0 | 22°30 | 10°58 | 27°38 | S 21 | |
| M22 | 11 58 23 | 1°20'38 | 10♁29 | 5°22 | 4°36 | 22° 1 | 11° 2 | 0° 8 | 21°42 | 17°51 | 23° 4 | 21°59 | 22°27 | 11° 4 | 27°37 | M22 | |
| T 23 | 12 2 20 | 2°20'31 | 24°21 | 5°56 | 5°51 | 22°48 | 11°15 | 0°13 | 21°44 | 17°50 | 23° 6 | 21°58 | 22°24 | 11°11 | 27°36 | T 23 | |
| W24 | 12 6 17 | 3°20'21 | 8♁ 4 | 6°34 | 7° 5 | 23°36 | 11°29 | 0°17 | 21°45 | 17°49 | 23° 7 | 21°54 | 22°21 | 11°18 | 27°35 | W24 | |
| T 25 | 12 10 13 | 4°20'10 | 21°38 | 7°16 | 8°20 | 24°23 | 11°43 | 0°22 | 21°47 | 17°48 | 23° 9 | 21°47 | 22°17 | 11°24 | 27°34 | T 25 | |
| F 26 | 12 14 10 | 5°19'57 | 5♁ 3 | 8° 1 | 9°35 | 25°10 | 11°57 | 0°26 | 21°49 | 17°47 | 23°10 | 21°38 | 22°14 | 11°31 | 27°34 | F 26 | |
| S 27 | 12 18 6 | 6°19'42 | 18°16 | 8°50 | 10°50 | 25°57 | 12°11 | 0°30 | 21°50 | 17°46 | 23°11 | 21°26 | 22°11 | 11°38 | 27°33 | S 27 | |
| S 28 | 12 22 3 | 7°19'26 | 1♃17 | 9°42 | 12° 4 | 26°45 | 12°25 | 0°34 | 21°52 | 17°45 | 23°13 | 21°13 | 22° 8 | 11°44 | 27°33 | S 28 | |
| M29 | 12 25 59 | 8°19'07 | 14° 4 | 10°38 | 13°19 | 27°32 | 12°38 | 0°38 | 21°53 | 17°44 | 23°14 | 21° 1 | 22° 5 | 11°51 | 27°33 | M29 | |
| T 30 | 12 29 56 | 9°18'47 | 26°36 | 11°36 | 14°34 | 28°19 | 12°52 | 0°42 | 21°55 | 17°43 | 23°15 | 20°49 | 22° 1 | 11°58 | 27°33 | T 30 | |
| W31 | 12 33 52 | 10♃18'24 | 8♁54 | 12♁37 | 15♃49 | 29♁ 6 | 13♁ 6 | 0♁46 | 21♁56 | 17♁42 | 23♃17 | 20♁40 | 21♁58 | 12♁ 4 | 27°D32 | W31 | |

Delta T = 18m52s

APRIL 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|--------|--------|-------|--------|-------|-------|--------|------|-----|
| T 1 | 12 37 49 | 11♃18'00 | 20♁59 | 13♁40 | 17♃ 3 | 29♁53 | 13♁19 | 0♁50 | 21♁57 | 17°R41 | 23♃18 | 20°R33 | 21♁55 | 12♁11 | 27°E32 | T 1 | |
| F 2 | 12 41 46 | 12°17'33 | 2♁54 | 14°46 | 18°18 | 0♃40 | 13°33 | 0°54 | 21°59 | 17♁40 | 23°20 | 20♁29 | 21°52 | 12°18 | 27°33 | F 2 | |
| S 3 | 12 45 42 | 13°17'04 | 14°43 | 15°55 | 19°32 | 1°27 | 13°46 | 0°57 | 22° 0 | 17°39 | 23°21 | 20°28 | 21°49 | 12°24 | 27°33 | S 3 | |
| S 4 | 12 49 39 | 14°16'33 | 26°30 | 17° 5 | 20°47 | 2°14 | 14° 0 | 1° 1 | 22° 1 | 17°39 | 23°23 | 20°D28 | 21°46 | 12°31 | 27°33 | S 4 | |
| M 5 | 12 53 35 | 15°15'59 | 8♁20 | 18°18 | 22° 2 | 3° 2 | 14°13 | 1° 4 | 22° 2 | 17°38 | 23°24 | 20°28 | 21°42 | 12°37 | 27°33 | M 5 | |
| T 6 | 12 57 32 | 16°15'24 | 20°19 | 19°32 | 23°16 | 3°49 | 14°27 | 1° 8 | 22° 3 | 17°37 | 23°25 | 20°R28 | 21°39 | 12°44 | 27°34 | T 6 | |
| W 7 | 13 1 28 | 17°14'46 | 2♁32 | 20°49 | 24°31 | 4°36 | 14°40 | 1°11 | 22° 4 | 17°37 | 23°27 | 20°27 | 21°36 | 12°51 | 27°35 | W 7 | |
| T 8 | 13 5 25 | 18°14'05 | 15° 4 | 22° 7 | 25°45 | 5°22 | 14°53 | 1°14 | 22° 5 | 17°36 | 23°28 | 20°24 | 21°33 | 12°57 | 27°35 | T 8 | |
| F 9 | 13 9 21 | 19°13'23 | 27°59 | 23°28 | 27° 0 | 6° 9 | 15° 6 | 1°17 | 22° 6 | 17°35 | 23°30 | 20°18 | 21°30 | 13° 4 | 27°36 | F 9 | |
| S 10 | 13 13 18 | 20°12'38 | 11♁20 | 24°50 | 28°14 | 6°56 | 15°19 | 1°20 | 22° 7 | 17°35 | 23°31 | 20°10 | 21°27 | 13°11 | 27°37 | S 10 | |
| S 11 | 13 17 15 | 21°11'51 | 25° 7 | 26°13 | 29°29 | 7°43 | 15°33 | 1°23 | 22° 8 | 17°34 | 23°33 | 20° 1 | 21°23 | 13°17 | 27°38 | S 11 | |
| M12 | 13 21 11 | 22°11'01 | 9♁18 | 27°39 | 0♃43 | 8°30 | 15°46 | 1°26 | 22° 9 | 17°34 | 23°34 | 19°51 | 21°20 | 13°24 | 27°39 | M12 | |
| T 13 | 13 25 8 | 23°10'10 | 23°48 | 29° 6 | 1°57 | 9°17 | 15°58 | 1°29 | 22° 9 | 17°33 | 23°35 | 19°43 | 21°17 | 13°31 | 27°40 | T 13 | |
| W14 | 13 29 4 | 24° 9'17 | 8♁31 | 0♃34 | 3°12 | 10° 4 | 16°11 | 1°32 | 22°10 | 17°33 | 23°37 | 19°35 | 21°14 | 13°37 | 27°41 | W14 | |
| T 15 | 13 33 1 | 25° 8'21 | 23°19 | 2° 5 | 4°26 | 10°50 | 16°24 | 1°34 | 22°10 | 17°32 | 23°38 | 19°30 | 21°11 | 13°44 | 27°43 | T 15 | |
| F 16 | 13 36 57 | 26° 7'24 | 8♁ 4 | 3°36 | 5°40 | 11°37 | 16°37 | 1°37 | 22°11 | 17°32 | 23°40 | 19°28 | 21° 7 | 13°51 | 27°44 | F 16 | |
| S 17 | 13 40 54 | 27° 6'26 | 22°40 | 5°10 | 6°55 | 12°24 | 16°50 | 1°39 | 22°12 | 17°31 | 23°41 | 19°D27 | 21° 4 | 13°57 | 27°45 | S 17 | |
| S 18 | 13 44 50 | 28° 5'25 | 7♁ 3 | 6°45 | 8° 9 | 13°11 | 17° 2 | 1°41 | 22°12 | 17°31 | 23°43 | 19°28 | 21° 1 | 14° 4 | 27°47 | S 18 | |
| M19 | 13 48 47 | 29° 4'23 | 21°10 | 8°21 | 9°23 | 13°57 | 17°15 | 1°44 | 22°12 | 17°31 | 23°44 | 19°29 | 20°58 | 14°11 | 27°49 | M19 | |
| T 20 | 13 52 44 | 0♃ 3'19 | 5♁ 1 | 9°59 | 10°37 | 14°44 | 17°27 | 1°46 | 22°13 | 17°30 | 23°46 | 19°R29 | 20°55 | 14°17 | 27°51 | T 20 | |
| W21 | 13 56 40 | 1° 2'14 | 18°36 | 11°39 | 11°52 | 15°30 | 17°40 | 1°48 | 22°13 | 17°30 | 23°47 | 19°28 | 20°52 | 14°24 | 27°52 | W21 | |
| T 22 | 14 0 37 | 2° 1'06 | 1♁55 | 13°20 | 13° 6 | 16°17 | 17°52 | 1°50 | 22°13 | 17°30 | 23°48 | 19°24 | 20°48 | 14°30 | 27°54 | T 22 | |
| F 23 | 14 4 33 | 2°59'57 | 15° 2 | 15° 2 | 14°20 | 17° 4 | 18° 4 | 1°52 | 22°14 | 17°30 | 23°50 | 19°19 | 20°45 | 14°37 | 27°56 | F 23 | |
| S 24 | 14 8 30 | 3°58'46 | 27°53 | 16°46 | 15°34 | 17°50 | 18°16 | 1°53 | 22°14 | 17°30 | 23°51 | 19°11 | 20°42 | 14°44 | 27°59 | S 24 | |
| S 25 | 14 12 26 | 4°57'34 | 10♃32 | 18°32 | 16°48 | 18°36 | 18°28 | 1°55 | 22°14 | 17°29 | 23°53 | 19° 3 | 20°39 | 14°50 | 28° 1 | S 25 | |
| M26 | 14 16 23 | 5°56'19 | 23° 0 | 20°19 | 18° 2 | 19°23 | 18°40 | 1°57 | 22°R14 | 17°29 | 23°54 | 18°55 | 20°36 | 14°57 | 28° 3 | M26 | |
| T 27 | 14 20 19 | 6°55'03 | 5♁17 | 22° 8 | 19°16 | 20° 9 | 18°52 | 1°58 | 22°14 | 17°29 | 23°55 | 18°48 | 20°33 | 15° 4 | 28° 6 | T 27 | |
| W28 | 14 24 16 | 7°53'45 | 17°23 | 23°59 | 20°30 | 20°56 | 19° 4 | 1°59 | 22°14 | 17°D29 | 23°57 | 18°42 | 20°29 | 15°10 | 28° 8 | W28 | |
| T 29 | 14 28 12 | 8°52'25 | 29°21 | 25°51 | 21°44 | 21°42 | 19°16 | 2° 1 | 22°14 | 17°29 | 23°58 | 18°39 | 20°26 | 15°17 | 28°11 | T 29 | |
| F 30 | 14 32 9 | 9♁51'02 | 11♁12 | 27♃45 | 22♁58 | 22♃28 | 19♁28 | 2♁ 2 | 22♁14 | 17♁29 | 24♃ 0 | 18♁37 | 20♁23 | 15♁24 | 28°E13 | F 30 | |

Delta T = 18m52s

ASTRODIENST EPHEMERIS for the year 2579
geocentric

MAY 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 14 36 6 | 10♁49'38 | 22♂59 | 29♂40 | 24♂12 | 23♂14 | 19♂39 | 2♁ 3 | 22°R13 | 17♂29 | 24♂ 1 | 18°D36 | 20♂20 | 15♂30 | 28♂16 | S 1 | |
| S 2 | 14 40 2 | 11°48'12 | 4♁46 | 1♂37 | 25°26 | 24° 1 | 19°51 | 2° 4 | 22♂13 | 17°29 | 24° 2 | 18♂38 | 20°17 | 15°37 | 28°19 | S 2 | |
| M 3 | 14 43 59 | 12°46'44 | 16°36 | 3°35 | 26°40 | 24°47 | 20° 2 | 2° 5 | 22°13 | 17°30 | 24° 4 | 18°39 | 20°13 | 15°44 | 28°22 | M 3 | |
| T 4 | 14 47 55 | 13°45'13 | 28°34 | 5°35 | 27°54 | 25°33 | 20°14 | 2° 6 | 22°12 | 17°30 | 24° 5 | 18°41 | 20°10 | 15°50 | 28°25 | T 4 | |
| W 5 | 14 51 52 | 14°43'41 | 10♂46 | 7°37 | 29° 8 | 26°19 | 20°25 | 2° 6 | 22°12 | 17°30 | 24° 7 | 18°R42 | 20° 7 | 15°57 | 28°28 | W 5 | |
| T 6 | 14 55 48 | 15°42'06 | 23°15 | 9°40 | 0♂22 | 27° 5 | 20°36 | 2° 7 | 22°12 | 17°30 | 24° 8 | 18°42 | 20° 4 | 16° 3 | 28°31 | T 6 | |
| F 7 | 14 59 45 | 16°40'29 | 6♂ 7 | 11°44 | 1°36 | 27°51 | 20°47 | 2° 7 | 22°11 | 17°31 | 24° 9 | 18°40 | 20° 1 | 16°10 | 28°34 | F 7 | |
| S 8 | 15 3 41 | 17°38'51 | 19°25 | 13°50 | 2°49 | 28°37 | 20°58 | 2° 8 | 22°10 | 17°31 | 24°11 | 18°37 | 19°58 | 16°17 | 28°38 | S 8 | |
| S 9 | 15 7 38 | 18°37'10 | 3♁11 | 15°56 | 4° 3 | 29°23 | 21° 9 | 2° 8 | 22°10 | 17°31 | 24°12 | 18°33 | 19°54 | 16°23 | 28°41 | S 9 | |
| M10 | 15 11 35 | 19°35'27 | 17°24 | 18° 4 | 5°17 | 0♂ 9 | 21°19 | 2° 8 | 22° 9 | 17°32 | 24°13 | 18°29 | 19°51 | 16°30 | 28°44 | M10 | |
| T 11 | 15 15 31 | 20°33'42 | 2♂ 0 | 20°13 | 6°31 | 0°54 | 21°30 | 2°R 8 | 22° 8 | 17°32 | 24°15 | 18°25 | 19°48 | 16°37 | 28°48 | T 11 | |
| W12 | 15 19 28 | 21°31'55 | 16°55 | 22°22 | 7°44 | 1°40 | 21°41 | 2° 8 | 22° 8 | 17°32 | 24°16 | 18°22 | 19°45 | 16°43 | 28°52 | W12 | |
| T 13 | 15 23 24 | 22°30'07 | 2♂ 0 | 24°32 | 8°58 | 2°26 | 21°51 | 2° 8 | 22° 7 | 17°33 | 24°17 | 18°20 | 19°42 | 16°50 | 28°55 | T 13 | |
| F 14 | 15 27 21 | 23°28'17 | 17° 5 | 26°42 | 10°12 | 3°11 | 22° 1 | 2° 8 | 22° 6 | 17°33 | 24°19 | 18°D19 | 19°38 | 16°57 | 28°59 | F 14 | |
| S 15 | 15 31 17 | 24°26'25 | 2♂ 3 | 28°52 | 11°25 | 3°57 | 22°11 | 2° 8 | 22° 5 | 17°34 | 24°20 | 18°19 | 19°35 | 17° 3 | 29° 3 | S 15 | |
| S 16 | 15 35 14 | 25°24'32 | 16°45 | 1♂ 1 | 12°39 | 4°43 | 22°22 | 2° 7 | 22° 4 | 17°35 | 24°21 | 18°21 | 19°32 | 17°10 | 29° 7 | S 16 | |
| M17 | 15 39 10 | 26°22'38 | 1♁ 8 | 3°10 | 13°52 | 5°28 | 22°32 | 2° 7 | 22° 3 | 17°35 | 24°22 | 18°22 | 19°29 | 17°17 | 29°11 | M17 | |
| T 18 | 15 43 7 | 27°20'42 | 15° 8 | 5°18 | 15° 6 | 6°14 | 22°41 | 2° 6 | 22° 2 | 17°36 | 24°24 | 18°23 | 19°26 | 17°23 | 29°15 | T 18 | |
| W19 | 15 47 4 | 28°18'45 | 28°45 | 7°25 | 16°19 | 6°59 | 22°51 | 2° 6 | 22° 1 | 17°36 | 24°25 | 18°R23 | 19°23 | 17°30 | 29°19 | W19 | |
| T 20 | 15 51 0 | 29°16'47 | 12♂ 1 | 9°30 | 17°33 | 7°45 | 23° 1 | 2° 5 | 22° 0 | 17°37 | 24°26 | 18°23 | 19°19 | 17°37 | 29°23 | T 20 | |
| F 21 | 15 54 57 | 0♂14'47 | 24°57 | 11°34 | 18°46 | 8°30 | 23°10 | 2° 4 | 21°59 | 17°38 | 24°27 | 18°22 | 19°16 | 17°43 | 29°27 | F 21 | |
| S 22 | 15 58 53 | 1°12'46 | 7♂36 | 13°35 | 20° 0 | 9°15 | 23°20 | 2° 3 | 21°58 | 17°39 | 24°28 | 18°20 | 19°13 | 17°50 | 29°32 | S 22 | |
| S 23 | 16 2 50 | 2°10'43 | 20° 1 | 15°34 | 21°13 | 10° 0 | 23°29 | 2° 2 | 21°56 | 17°39 | 24°30 | 18°17 | 19°10 | 17°56 | 29°36 | S 23 | |
| M24 | 16 6 46 | 3° 8'40 | 2♂14 | 17°31 | 22°27 | 10°46 | 23°38 | 2° 1 | 21°55 | 17°40 | 24°31 | 18°15 | 19° 7 | 18° 3 | 29°41 | M24 | |
| T 25 | 16 10 43 | 4° 6'35 | 14°17 | 19°25 | 23°40 | 11°31 | 23°47 | 2° 0 | 21°54 | 17°41 | 24°32 | 18°13 | 19° 4 | 18°10 | 29°45 | T 25 | |
| W26 | 16 14 39 | 5° 4'28 | 26°13 | 21°17 | 24°53 | 12°16 | 23°56 | 1°58 | 21°52 | 17°42 | 24°33 | 18°11 | 19° 0 | 18°16 | 29°50 | W26 | |
| T 27 | 16 18 36 | 6° 2'21 | 8♂ 4 | 23° 6 | 26° 7 | 13° 1 | 24° 5 | 1°57 | 21°51 | 17°43 | 24°34 | 18°11 | 18°57 | 18°23 | 29°54 | T 27 | |
| F 28 | 16 22 33 | 7° 0'11 | 19°52 | 24°51 | 27°20 | 13°46 | 24°13 | 1°55 | 21°50 | 17°44 | 24°35 | 18°D10 | 18°54 | 18°30 | 29°59 | F 28 | |
| S 29 | 16 26 29 | 7°58'01 | 1♁38 | 26°34 | 28°33 | 14°31 | 24°22 | 1°54 | 21°48 | 17°45 | 24°36 | 18°11 | 18°51 | 18°36 | 0♂ 4 | S 29 | |
| S 30 | 16 30 26 | 8°55'49 | 13°27 | 28°13 | 29°46 | 15°16 | 24°30 | 1°52 | 21°47 | 17°46 | 24°38 | 18°11 | 18°48 | 18°43 | 0° 9 | S 30 | |
| M31 | 16 34 22 | 9♂53'35 | 25♁20 | 29♂50 | 0♁59 | 16♂ 1 | 24♂39 | 1♁50 | 21♁45 | 17♂47 | 24♂39 | 18♂12 | 18♂44 | 18♂50 | 0♂14 | M31 | |

Delta T = 18m53s

JUNE 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|------|------|-----|
| T 1 | 16 38 19 | 10♂51'20 | 7♂22 | 1♁23 | 2♁13 | 16♂46 | 24♂47 | 1°R48 | 21°R43 | 17♂48 | 24♂40 | 18♂13 | 18♂41 | 18♂56 | 0♂19 | T 1 | |
| W 2 | 16 42 15 | 11°49'04 | 19°36 | 2°52 | 3°26 | 17°30 | 24°55 | 1°46 | 21°42 | 17°49 | 24°41 | 18°14 | 18°38 | 19° 3 | 0°24 | W 2 | |
| T 3 | 16 46 12 | 12°46'45 | 2♂ 5 | 4°19 | 4°39 | 18°15 | 25° 2 | 1°44 | 21°40 | 17°50 | 24°42 | 18°14 | 18°35 | 19°10 | 0°29 | T 3 | |
| F 4 | 16 50 9 | 13°44'26 | 14°54 | 5°42 | 5°52 | 19° 0 | 25°10 | 1°42 | 21°38 | 17°51 | 24°43 | 18°R14 | 18°32 | 19°16 | 0°34 | F 4 | |
| S 5 | 16 54 5 | 14°42'04 | 28° 6 | 7° 1 | 7° 5 | 19°44 | 25°18 | 1°40 | 21°37 | 17°53 | 24°44 | 18°14 | 18°29 | 19°23 | 0°39 | S 5 | |
| S 6 | 16 58 2 | 15°39'42 | 11♁44 | 8°17 | 8°18 | 20°29 | 25°25 | 1°37 | 21°35 | 17°54 | 24°45 | 18°14 | 18°25 | 19°29 | 0°44 | S 6 | |
| M 7 | 17 1 58 | 16°37'17 | 25°48 | 9°30 | 9°31 | 21°13 | 25°32 | 1°35 | 21°33 | 17°55 | 24°46 | 18°14 | 18°22 | 19°36 | 0°50 | M 7 | |
| T 8 | 17 5 55 | 17°34'52 | 10♂18 | 10°39 | 10°44 | 21°58 | 25°39 | 1°33 | 21°31 | 17°56 | 24°47 | 18°13 | 18°19 | 19°43 | 0°55 | T 8 | |
| W 9 | 17 9 51 | 18°32'25 | 25° 9 | 11°44 | 11°57 | 22°42 | 25°46 | 1°30 | 21°29 | 17°58 | 24°48 | 18°D13 | 18°16 | 19°49 | 1° 0 | W 9 | |
| T 10 | 17 13 48 | 19°29'57 | 10♂15 | 12°46 | 13°10 | 23°26 | 25°53 | 1°27 | 21°27 | 17°59 | 24°49 | 18°14 | 18°13 | 19°56 | 1° 6 | T 10 | |
| F 11 | 17 17 44 | 20°27'28 | 25°28 | 13°44 | 14°23 | 24°10 | 26° 0 | 1°25 | 21°25 | 18° 0 | 24°50 | 18°R14 | 18°10 | 20° 3 | 1°11 | F 11 | |
| S 12 | 17 21 41 | 21°24'58 | 10♂37 | 14°38 | 15°36 | 24°55 | 26° 6 | 1°22 | 21°23 | 18° 2 | 24°50 | 18°13 | 18° 6 | 20° 9 | 1°17 | S 12 | |
| S 13 | 17 25 38 | 22°22'27 | 25°34 | 15°28 | 16°48 | 25°39 | 26°13 | 1°19 | 21°21 | 18° 3 | 24°51 | 18°13 | 18° 3 | 20°16 | 1°23 | S 13 | |
| M14 | 17 29 34 | 23°19'56 | 10♂12 | 16°15 | 18° 1 | 26°23 | 26°19 | 1°16 | 21°19 | 18° 4 | 24°52 | 18°13 | 18° 0 | 20°23 | 1°28 | M14 | |
| T 15 | 17 33 31 | 24°17'23 | 24°25 | 16°57 | 19°14 | 27° 7 | 26°25 | 1°13 | 21°17 | 18° 6 | 24°53 | 18°12 | 17°57 | 20°29 | 1°34 | T 15 | |
| W16 | 17 37 27 | 25°14'50 | 8♂11 | 17°35 | 20°27 | 27°51 | 26°31 | 1°10 | 21°15 | 18° 7 | 24°54 | 18°11 | 17°54 | 20°36 | 1°40 | W16 | |
| T 17 | 17 41 24 | 26°12'16 | 21°31 | 18° 9 | 21°39 | 28°35 | 26°36 | 1° 7 | 21°13 | 18° 9 | 24°55 | 18°D11 | 17°50 | 20°43 | 1°45 | T 17 | |
| F 18 | 17 45 20 | 27° 9'41 | 4♂26 | 18°38 | 22°52 | 29°19 | 26°42 | 1° 4 | 21°11 | 18°10 | 24°55 | 18°11 | 17°47 | 20°49 | 1°51 | F 18 | |
| S 19 | 17 49 17 | 28° 7'06 | 17° 1 | 19° 3 | 24° 4 | 0♂ 2 | 26°47 | 1° 0 | 21° 9 | 18°12 | 24°56 | 18°12 | 17°44 | 20°56 | 1°57 | S 19 | |
| S 20 | 17 53 13 | 29° 4'31 | 29°19 | 19°24 | 25°17 | 0°46 | 26°52 | 0°57 | 21° 7 | 18°14 | 24°57 | 18°13 | 17°41 | 21° 3 | 2° 3 | S 20 | |
| M21 | 17 57 10 | 0♁ 1'55 | 11♂23 | 19°40 | 26°30 | 1°30 | 26°57 | 0°54 | 21° 5 | 18°15 | 24°58 | 18°14 | 17°38 | 21° 9 | 2° 9 | M21 | |
| T 22 | 18 1 7 | 0°59'18 | 23°18 | 19°51 | 27°42 | 2°13 | 27° 2 | 0°50 | 21° 2 | 18°17 | 24°58 | 18°15 | 17°35 | 21°16 | 2°15 | T 22 | |
| W23 | 18 5 3 | 1°56'41 | 5♂ 8 | 19°58 | 28°55 | 2°57 | 27° 7 | 0°47 | 21° 0 | 18°18 | 24°59 | 18°16 | 17°31 | 21°22 | 2°21 | W23 | |
| T 24 | 18 9 0 | 2°54'03 | 16°54 | 20°R 0 | 0♂ 7 | 3°41 | 27°11 | 0°43 | 20°58 | 18°20 | 25° 0 | 18°R16 | 17°28 | 21°29 | 2°27 | T 24 | |
| F 25 | 18 12 56 | 3°51'25 | 28°42 | 19°58 | 1°20 | 4°24 | 27°16 | 0°39 | 20°56 | 18°22 | 25° 0 | 18°16 | 17°25 | 21°36 | 2°33 | F 25 | |
| S 26 | 18 16 53 | 4°48'46 | 10♁31 | 19°52 | 2°32 | 5° 7 | 27°20 | 0°36 | 20°53 | 18°23 | 25° 1 | 18°15 | 17°22 | 21°42 | 2°39 | S 26 | |
| S 27 | 18 20 49 | 5°46'07 | 22°25 | 19°41 | 3°44 | 5°51 | 27°24 | 0°32 | 20°51 | 18°25 | 25° 2 | 18°13 | 17°19 | 21°49 | 2°45 | S 27 | |
| M28 | 18 24 46 | 6°43'27 | 4♂27 | 19°26 | 4°57 | 6°34 | 27°28 | 0°28 | 20°49 | 18°27 | 25° 2 | 18°10 | 17°16 | 21°56 | 2°52 | M28 | |
| T 29 | 18 28 42 | 7°40'46 | 16°37 | 19° 7 | 6° 9 | 7°17 | 27°31 | 0°24 | 20°46 | 18°29 | 25° 3 | 18° 7 | 17°12 | 22° 2 | 2°58 | T 29 | |
| W30 | 18 32 39 | 8♁38'05 | 28♂58 | 18♁45 | 7♂21 | 8♂ 0 | 27♂35 | 0♁20 | 20♁44 | 18♂30 | 25♂ 3 | 18♂ 4 | 17♂ 9 | 22♂ 9 | 3♂ 4 | W30 | |

Delta T = 18m53s

ASTRODIENST EPHEMERIS for the year 2579
geocentric

JULY 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|--------|--------|--------|--------|-------|-------|------|------|
| T 1 | 18 36 36 | 9♄35'22 | 11♃33 | 18°R19 | 8♃233 | 8♂43 | 27♃38 | 0°R16 | 20°R42 | 18♂232 | 25♃4 | 18°R 2 | 17♂ 6 | 22♂16 | 3♂10 | T 1 |
| F 2 | 18 40 32 | 10°32'39 | 24°24 | 17♄50 | 9°45 | 9°27 | 27°41 | 0♄12 | 20♄39 | 18°34 | 25° 4 | 18♂ 0 | 17° 3 | 22°22 | 3°17 | F 2 |
| S 3 | 18 44 29 | 11°29'56 | 7♄34 | 17°19 | 10°58 | 10° 9 | 27°44 | 0° 8 | 20°37 | 18°36 | 25° 5 | 17°D59 | 17° 0 | 22°29 | 3°23 | S 3 |
| S 4 | 18 48 25 | 12°27'12 | 21° 5 | 16°46 | 12°10 | 10°52 | 27°47 | 0° 4 | 20°34 | 18°38 | 25° 5 | 17°59 | 16°56 | 22°36 | 3°29 | S 4 |
| M 5 | 18 52 22 | 13°24'27 | 4♂59 | 16°11 | 13°22 | 11°35 | 27°49 | 0° 0 | 20°32 | 18°40 | 25° 6 | 18° 0 | 16°53 | 22°42 | 3°36 | M 5 |
| T 6 | 18 56 18 | 14°21'41 | 19°14 | 15°36 | 14°34 | 12°18 | 27°51 | 29♄56 | 20°30 | 18°41 | 25° 6 | 18° 2 | 16°50 | 22°49 | 3°42 | T 6 |
| W 7 | 19 0 15 | 15°18'55 | 3♄51 | 15° 1 | 15°46 | 13° 1 | 27°54 | 29°52 | 20°27 | 18°43 | 25° 7 | 18° 3 | 16°47 | 22°55 | 3°49 | W 7 |
| T 8 | 19 4 11 | 16°16'09 | 18°45 | 14°25 | 16°58 | 13°43 | 27°55 | 29°48 | 20°25 | 18°45 | 25° 7 | 18°R 3 | 16°44 | 23° 2 | 3°55 | T 8 |
| F 9 | 19 8 8 | 17°13'22 | 3♄49 | 13°51 | 18° 9 | 14°26 | 27°57 | 29°43 | 20°22 | 18°47 | 25° 7 | 18° 3 | 16°41 | 23° 9 | 4° 2 | F 9 |
| S 10 | 19 12 5 | 18°10'35 | 18°55 | 13°19 | 19°21 | 15° 9 | 27°59 | 29°39 | 20°20 | 18°49 | 25° 8 | 18° 0 | 16°37 | 23°15 | 4° 8 | S 10 |
| S 11 | 19 16 1 | 19° 7'48 | 3♄54 | 12°48 | 20°33 | 15°51 | 28° 0 | 29°35 | 20°18 | 18°51 | 25° 8 | 17°57 | 16°34 | 23°22 | 4°15 | S 11 |
| M12 | 19 19 58 | 20° 5'01 | 18°37 | 12°21 | 21°45 | 16°33 | 28° 1 | 29°30 | 20°15 | 18°53 | 25° 8 | 17°53 | 16°31 | 23°29 | 4°21 | M12 |
| T 13 | 19 23 54 | 21° 2'14 | 2♃57 | 11°56 | 22°56 | 17°16 | 28° 2 | 29°26 | 20°13 | 18°55 | 25° 9 | 17°48 | 16°28 | 23°35 | 4°28 | T 13 |
| W14 | 19 27 51 | 21°59'27 | 16°51 | 11°35 | 24° 8 | 17°58 | 28° 3 | 29°22 | 20°10 | 18°57 | 25° 9 | 17°44 | 16°25 | 23°42 | 4°34 | W14 |
| T 15 | 19 31 47 | 22°56'40 | 0♃17 | 11°18 | 25°20 | 18°40 | 28° 4 | 29°17 | 20° 8 | 18°59 | 25° 9 | 17°40 | 16°22 | 23°49 | 4°41 | T 15 |
| F 16 | 19 35 44 | 23°53'53 | 13°16 | 11° 5 | 26°31 | 19°22 | 28° 4 | 29°13 | 20° 5 | 19° 1 | 25° 9 | 17°38 | 16°18 | 23°55 | 4°48 | F 16 |
| S 17 | 19 39 41 | 24°51'07 | 25°52 | 10°57 | 27°43 | 20° 5 | 28° 4 | 29° 9 | 20° 3 | 19° 3 | 25° 9 | 17°D38 | 16°15 | 24° 2 | 4°54 | S 17 |
| S 18 | 19 43 37 | 25°48'21 | 8♄ 8 | 10°D54 | 28°54 | 20°47 | 28°R 4 | 29° 4 | 20° 1 | 19° 5 | 25°10 | 17°38 | 16°12 | 24° 9 | 5° 1 | S 18 |
| M19 | 19 47 34 | 26°45'35 | 20°10 | 10°56 | 0♃ 5 | 21°29 | 28° 4 | 29° 0 | 19°58 | 19° 7 | 25°10 | 17°40 | 16° 9 | 24°15 | 5° 8 | M19 |
| T 20 | 19 51 30 | 27°42'50 | 2♂ 2 | 11° 3 | 1°17 | 22°11 | 28° 4 | 28°55 | 19°56 | 19°10 | 25°10 | 17°41 | 16° 6 | 24°22 | 5°14 | T 20 |
| W21 | 19 55 27 | 28°40'05 | 13°49 | 11°15 | 2°28 | 22°52 | 28° 3 | 28°51 | 19°53 | 19°12 | 25°10 | 17°R42 | 16° 2 | 24°29 | 5°21 | W21 |
| T 22 | 19 59 23 | 29°37'21 | 25°36 | 11°33 | 3°39 | 23°34 | 28° 2 | 28°46 | 19°51 | 19°14 | 25°10 | 17°42 | 15°59 | 24°35 | 5°28 | T 22 |
| F 23 | 20 3 20 | 0♂34'37 | 7♄25 | 11°56 | 4°51 | 24°16 | 28° 1 | 28°42 | 19°49 | 19°16 | 25°10 | 17°40 | 15°56 | 24°42 | 5°34 | F 23 |
| S 24 | 20 7 16 | 1°31'53 | 19°21 | 12°24 | 6° 2 | 24°58 | 28° 0 | 28°38 | 19°46 | 19°18 | 25°10 | 17°36 | 15°53 | 24°48 | 5°41 | S 24 |
| S 25 | 20 11 13 | 2°29'10 | 1♂24 | 12°58 | 7°13 | 25°39 | 27°59 | 28°33 | 19°44 | 19°20 | 25°R10 | 17°30 | 15°50 | 24°55 | 5°48 | S 25 |
| M26 | 20 15 10 | 3°26'27 | 13°38 | 13°37 | 8°24 | 26°21 | 27°57 | 28°29 | 19°42 | 19°22 | 25°10 | 17°23 | 15°47 | 25° 2 | 5°55 | M26 |
| T 27 | 20 19 6 | 4°23'44 | 26° 2 | 14°21 | 9°35 | 27° 2 | 27°56 | 28°24 | 19°39 | 19°24 | 25°10 | 17°14 | 15°43 | 25° 8 | 6° 1 | T 27 |
| W28 | 20 23 3 | 5°21'02 | 8♃38 | 15°10 | 10°46 | 27°44 | 27°54 | 28°20 | 19°37 | 19°27 | 25°10 | 17° 6 | 15°40 | 25°15 | 6° 8 | W28 |
| T 29 | 20 26 59 | 6°18'19 | 21°26 | 16° 5 | 11°57 | 28°25 | 27°52 | 28°16 | 19°35 | 19°29 | 25°10 | 16°58 | 15°37 | 25°22 | 6°15 | T 29 |
| F 30 | 20 30 56 | 7°15'37 | 4♄28 | 17° 4 | 13° 7 | 29° 6 | 27°49 | 28°11 | 19°32 | 19°31 | 25°10 | 16°52 | 15°34 | 25°28 | 6°21 | F 30 |
| S 31 | 20 34 52 | 8♂12'56 | 17♄44 | 18♄ 9 | 14♃18 | 29♂47 | 27♃47 | 28♄ 7 | 19♄30 | 19♂233 | 25♃10 | 16♂48 | 15♂31 | 25♂35 | 6♂28 | S 31 |

Delta T = 18m53s

AUGUST 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|--------|-------|--------|--------|-------|-------|------|------|
| S 1 | 20 38 49 | 9♂10'14 | 1♂14 | 19♄19 | 15♃29 | 0♄29 | 27°R44 | 28°R 3 | 19°R28 | 19♂35 | 25°R10 | 16°R46 | 15♂28 | 25♂42 | 6♂35 | S 1 |
| M 2 | 20 42 45 | 10° 7'33 | 15° 1 | 20°34 | 16°39 | 1°10 | 27♃41 | 27♄58 | 19♄26 | 19°38 | 25♃10 | 16°D46 | 15°24 | 25°48 | 6°42 | M 2 |
| T 3 | 20 46 42 | 11° 4'52 | 29° 5 | 21°53 | 17°50 | 1°51 | 27°38 | 27°54 | 19°23 | 19°40 | 25° 9 | 16♂47 | 15°21 | 25°55 | 6°48 | T 3 |
| W 4 | 20 50 39 | 12° 2'11 | 13♄25 | 23°17 | 19° 0 | 2°32 | 27°35 | 27°50 | 19°21 | 19°42 | 25° 9 | 16°R48 | 15°18 | 26° 2 | 6°55 | W 4 |
| T 5 | 20 54 35 | 12°59'31 | 27°59 | 24°45 | 20°11 | 3°12 | 27°31 | 27°46 | 19°19 | 19°44 | 25° 9 | 16°47 | 15°15 | 26° 8 | 7° 2 | T 5 |
| F 6 | 20 58 32 | 13°56'51 | 12♄43 | 26°18 | 21°21 | 3°53 | 27°28 | 27°41 | 19°17 | 19°46 | 25° 9 | 16°45 | 15°12 | 26°15 | 7° 9 | F 6 |
| S 7 | 21 2 28 | 14°54'12 | 27°32 | 27°55 | 22°31 | 4°34 | 27°24 | 27°37 | 19°15 | 19°49 | 25° 9 | 16°40 | 15° 8 | 26°22 | 7°15 | S 7 |
| S 8 | 21 6 25 | 15°51'34 | 12♄18 | 29°36 | 23°41 | 5°15 | 27°20 | 27°33 | 19°13 | 19°51 | 25° 8 | 16°33 | 15° 5 | 26°28 | 7°22 | S 8 |
| M 9 | 21 10 21 | 16°48'56 | 26°53 | 1♂21 | 24°51 | 5°55 | 27°16 | 27°29 | 19°11 | 19°53 | 25° 8 | 16°24 | 15° 2 | 26°35 | 7°29 | M 9 |
| T 10 | 21 14 18 | 17°46'18 | 11♃10 | 3° 9 | 26° 1 | 6°36 | 27°12 | 27°25 | 19° 9 | 19°55 | 25° 8 | 16°15 | 14°59 | 26°41 | 7°36 | T 10 |
| W11 | 21 18 14 | 18°43'42 | 25° 3 | 5° 0 | 27°11 | 7°16 | 27° 7 | 27°21 | 19° 7 | 19°57 | 25° 7 | 16° 6 | 14°56 | 26°48 | 7°42 | W11 |
| T 12 | 21 22 11 | 19°41'07 | 8♃31 | 6°54 | 28°21 | 7°57 | 27° 2 | 27°17 | 19° 5 | 20° 0 | 25° 7 | 15°58 | 14°53 | 26°55 | 7°49 | T 12 |
| F 13 | 21 26 8 | 20°38'33 | 21°32 | 8°50 | 29°31 | 8°37 | 26°58 | 27°13 | 19° 3 | 20° 2 | 25° 7 | 15°52 | 14°49 | 27° 1 | 7°56 | F 13 |
| S 14 | 21 30 4 | 21°35'59 | 4♄10 | 10°48 | 0♄41 | 9°17 | 26°53 | 27°10 | 19° 1 | 20° 4 | 25° 6 | 15°48 | 14°46 | 27° 8 | 8° 2 | S 14 |
| S 15 | 21 34 1 | 22°33'28 | 16°27 | 12°49 | 1°50 | 9°58 | 26°47 | 27° 6 | 18°59 | 20° 6 | 25° 6 | 15°47 | 14°43 | 27°15 | 8° 9 | S 15 |
| M16 | 21 37 57 | 23°30'57 | 28°29 | 14°50 | 3° 0 | 10°38 | 26°42 | 27° 2 | 18°57 | 20° 9 | 25° 5 | 15°D47 | 14°40 | 27°21 | 8°16 | M16 |
| T 17 | 21 41 54 | 24°28'28 | 10♂21 | 16°53 | 4° 9 | 11°18 | 26°37 | 26°58 | 18°55 | 20°11 | 25° 5 | 15°R47 | 14°37 | 27°28 | 8°22 | T 17 |
| W18 | 21 45 50 | 25°26'00 | 22° 9 | 18°56 | 5°19 | 11°58 | 26°31 | 26°55 | 18°53 | 20°13 | 25° 4 | 15°47 | 14°34 | 27°35 | 8°29 | W18 |
| T 19 | 21 49 47 | 26°23'33 | 3♄57 | 21° 0 | 6°28 | 12°38 | 26°25 | 26°51 | 18°52 | 20°15 | 25° 4 | 15°46 | 14°30 | 27°41 | 8°35 | T 19 |
| F 20 | 21 53 43 | 27°21'08 | 15°51 | 23° 4 | 7°37 | 13°18 | 26°19 | 26°48 | 18°50 | 20°17 | 25° 3 | 15°42 | 14°27 | 27°48 | 8°42 | F 20 |
| S 21 | 21 57 40 | 28°18'43 | 27°53 | 25° 7 | 8°46 | 13°57 | 26°13 | 26°44 | 18°48 | 20°20 | 25° 3 | 15°36 | 14°24 | 27°55 | 8°48 | S 21 |
| S 22 | 22 1 37 | 29°16'21 | 10♂ 7 | 27°11 | 9°55 | 14°37 | 26° 7 | 26°41 | 18°46 | 20°22 | 25° 2 | 15°27 | 14°21 | 28° 1 | 8°55 | S 22 |
| M23 | 22 5 33 | 0♃13'59 | 22°34 | 29°13 | 11° 4 | 15°17 | 26° 1 | 26°38 | 18°45 | 20°24 | 25° 2 | 15°15 | 14°18 | 28° 8 | 9° 1 | M23 |
| T 24 | 22 9 30 | 1°11'38 | 5♃16 | 1♃15 | 12°13 | 15°56 | 25°54 | 26°34 | 18°43 | 20°26 | 25° 1 | 15° 3 | 14°14 | 28°15 | 9° 8 | T 24 |
| W25 | 22 13 26 | 2° 9'19 | 18°12 | 3°16 | 13°22 | 16°36 | 25°48 | 26°31 | 18°42 | 20°28 | 25° 0 | 14°51 | 14°11 | 28°21 | 9°14 | W25 |
| T 26 | 22 17 23 | 3° 7'00 | 1♄20 | 5°16 | 14°31 | 17°15 | 25°41 | 26°28 | 18°40 | 20°31 | 25° 0 | 14°39 | 14° 8 | 28°28 | 9°21 | T 26 |
| F 27 | 22 21 19 | 4° 4'43 | 14°41 | 7°15 | 15°39 | 17°55 | 25°34 | 26°25 | 18°39 | 20°33 | 24°59 | 14°30 | 14° 5 | 28°34 | 9°27 | F 27 |
| S 28 | 22 25 16 | 5° 2'27 | 28°12 | 9°12 | 16°48 | 18°34 | 25°27 | 26°22 | 18°37 | 20°35 | 24°58 | 14°23 | 14° 2 | 28°41 | 9°34 | S 28 |
| S 29 | 22 29 12 | 6° 0'12 | 11♂53 | 11° 9 | 17°56 | 19°13 | 25°20 | 26°19 | 18°36 | 20°37 | 24°58 | 14°19 | 13°59 | 28°48 | 9°40 | S 29 |
| M30 | 22 33 9 | 6°57'58 | 25°43 | 13° 4 | 19° 4 | 19°52 | 25°13 | 26°16 | 18°35 | 20°39 | 24°57 | 14°18 | 13°55 | 28°54 | 9°46 | M30 |
| T 31 | 22 37 5 | 7♃55'45 | 9♄42 | 14♃57 | 20♄12 | 20♄31 | 25♃ 6 | 26♄14 | 18♄33 | 20♂41 | 24♃56 | 14♂17 | 13♂52 | 29♂ 1 | 9♂53 | T 31 |

Delta T = 18m54s

ASTRODIENST EPHEMERIS for the year 2579
geocentric

SEPTEMBER 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| W 1 | 22 41 2 | 8♄53'34 | 23♂51 | 16♄50 | 21♂20 | 21♂10 | 24°R59 | 26°R11 | 18°R32 | 20♄L44 | 24°R56 | 14°R17 | 13♄49 | 29♄8 | 9♄59 | W 1 |
| T 2 | 22 44 59 | 9°51'23 | 8♂7 | 18°41 | 22°28 | 21°49 | 24♂51 | 26♂8 | 18♂31 | 20°46 | 24♂55 | 14♄16 | 13°46 | 29°14 | 10°5 | T 2 |
| F 3 | 22 48 55 | 10°49'14 | 22°29 | 20°30 | 23°36 | 22°28 | 24°44 | 26°6 | 18°30 | 20°48 | 24°54 | 14°12 | 13°43 | 29°21 | 10°11 | F 3 |
| S 4 | 22 52 52 | 11°47'05 | 6♂54 | 22°18 | 24°43 | 23°7 | 24°37 | 26°3 | 18°28 | 20°50 | 24°53 | 14°6 | 13°40 | 29°28 | 10°17 | S 4 |
| S 5 | 22 56 48 | 12°44'58 | 21°16 | 24°5 | 25°51 | 23°46 | 24°29 | 26°1 | 18°27 | 20°52 | 24°53 | 13°57 | 13°36 | 29°34 | 10°24 | S 5 |
| M 6 | 23 0 45 | 13°42'53 | 5♂30 | 25°51 | 26°58 | 24°24 | 24°21 | 25°59 | 18°26 | 20°54 | 24°52 | 13°46 | 13°33 | 29°41 | 10°30 | M 6 |
| T 7 | 23 4 41 | 14°40'48 | 19°31 | 27°35 | 28°5 | 25°3 | 24°14 | 25°57 | 18°25 | 20°56 | 24°51 | 13°34 | 13°30 | 29°48 | 10°36 | T 7 |
| W 8 | 23 8 38 | 15°38'46 | 3♂13 | 29°18 | 29°12 | 25°41 | 24°6 | 25°54 | 18°24 | 20°58 | 24°50 | 13°23 | 13°27 | 29°54 | 10°42 | W 8 |
| T 9 | 23 12 34 | 16°36'44 | 16°33 | 1♂0 | 0♄19 | 26°20 | 23°58 | 25°52 | 18°23 | 21°0 | 24°49 | 13°12 | 13°24 | 0♂1 | 10°48 | T 9 |
| F 10 | 23 16 31 | 17°34'45 | 29°31 | 2°40 | 1°26 | 26°58 | 23°50 | 25°51 | 18°23 | 21°2 | 24°48 | 13°4 | 13°20 | 0°8 | 10°54 | F 10 |
| S 11 | 23 20 28 | 18°32'47 | 12♂7 | 4°19 | 2°33 | 27°36 | 23°42 | 25°49 | 18°22 | 21°4 | 24°47 | 12°59 | 13°17 | 0°14 | 11°0 | S 11 |
| S 12 | 23 24 24 | 19°30'52 | 24°24 | 5°57 | 3°39 | 28°14 | 23°34 | 25°47 | 18°21 | 21°6 | 24°47 | 12°56 | 13°14 | 0°21 | 11°5 | S 12 |
| M13 | 23 28 21 | 20°28'58 | 6♄27 | 7°34 | 4°46 | 28°52 | 23°27 | 25°45 | 18°20 | 21°8 | 24°46 | 12°55 | 13°11 | 0°28 | 11°11 | M13 |
| T 14 | 23 32 17 | 21°27'06 | 18°19 | 9°10 | 5°52 | 29°30 | 23°19 | 25°44 | 18°19 | 21°10 | 24°45 | 12°55 | 13°8 | 0°34 | 11°17 | T 14 |
| W15 | 23 36 14 | 22°25'16 | 0♂8 | 10°44 | 6°58 | 0♄8 | 23°11 | 25°42 | 18°19 | 21°12 | 24°44 | 12°54 | 13°5 | 0°41 | 11°23 | W15 |
| T 16 | 23 40 10 | 23°23'28 | 11°58 | 12°17 | 8°4 | 0°46 | 23°3 | 25°41 | 18°18 | 21°14 | 24°43 | 12°53 | 13°1 | 0°47 | 11°28 | T 16 |
| F 17 | 23 44 7 | 24°21'42 | 23°54 | 13°49 | 9°9 | 1°24 | 22°55 | 25°40 | 18°18 | 21°16 | 24°42 | 12°50 | 12°58 | 0°54 | 11°34 | F 17 |
| S 18 | 23 48 3 | 25°19'58 | 6♄1 | 15°19 | 10°15 | 2°1 | 22°47 | 25°38 | 18°17 | 21°18 | 24°41 | 12°44 | 12°55 | 1°1 | 11°40 | S 18 |
| S 19 | 23 52 0 | 26°18'16 | 18°23 | 16°49 | 11°20 | 2°39 | 22°39 | 25°37 | 18°17 | 21°20 | 24°40 | 12°36 | 12°52 | 1°7 | 11°45 | S 19 |
| M20 | 23 55 57 | 27°16'36 | 1♄3 | 18°17 | 12°26 | 3°17 | 22°31 | 25°36 | 18°16 | 21°22 | 24°39 | 12°25 | 12°49 | 1°14 | 11°51 | M20 |
| T 21 | 23 59 53 | 28°14'57 | 14°0 | 19°44 | 13°31 | 3°54 | 22°23 | 25°35 | 18°16 | 21°24 | 24°38 | 12°13 | 12°45 | 1°21 | 11°56 | T 21 |
| W22 | 0 3 50 | 29°13'21 | 27°16 | 21°10 | 14°35 | 4°31 | 22°15 | 25°35 | 18°16 | 21°26 | 24°37 | 12°1 | 12°42 | 1°27 | 12°1 | W22 |
| T 23 | 0 7 46 | 0♄11'46 | 10♄48 | 22°35 | 15°40 | 5°9 | 22°7 | 25°34 | 18°16 | 21°28 | 24°36 | 11°50 | 12°39 | 1°34 | 12°7 | T 23 |
| F 24 | 0 11 43 | 1°10'13 | 24°32 | 23°58 | 16°44 | 5°46 | 22°0 | 25°33 | 18°15 | 21°29 | 24°35 | 11°41 | 12°36 | 1°41 | 12°12 | F 24 |
| S 25 | 0 15 39 | 2°8'41 | 8♄27 | 25°20 | 17°49 | 6°23 | 21°52 | 25°33 | 18°15 | 21°31 | 24°34 | 11°34 | 12°33 | 1°47 | 12°17 | S 25 |
| S 26 | 0 19 36 | 3°7'12 | 22°28 | 26°41 | 18°53 | 7°0 | 21°44 | 25°32 | 18°15 | 21°33 | 24°33 | 11°30 | 12°30 | 1°54 | 12°22 | S 26 |
| M27 | 0 23 32 | 4°5'44 | 6♂33 | 28°0 | 19°56 | 7°37 | 21°37 | 25°32 | 18°D15 | 21°35 | 24°32 | 11°D29 | 12°26 | 2°1 | 12°28 | M27 |
| T 28 | 0 27 29 | 5°4'18 | 20°40 | 29°18 | 21°0 | 8°14 | 21°29 | 25°32 | 18°15 | 21°36 | 24°30 | 11°29 | 12°23 | 2°7 | 12°33 | T 28 |
| W29 | 0 31 26 | 6°2'53 | 4♂48 | 0♄35 | 22°3 | 8°50 | 21°22 | 25°32 | 18°15 | 21°38 | 24°29 | 11°R30 | 12°20 | 2°14 | 12°38 | W29 |
| T 30 | 0 35 22 | 7♄1'30 | 18♂55 | 1♄50 | 23♄6 | 9♄27 | 21♂14 | 25°D32 | 18♂15 | 21♄40 | 24♂28 | 11♄29 | 12♄17 | 2♄21 | 12♄43 | T 30 |

Delta T = 18m54s

OCTOBER 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|-------|--------|--------|-------|------|-------|------|
| F 1 | 0 39 19 | 8♄0'09 | 3♂1 | 3♄3 | 24♄9 | 10♄3 | 21°R7 | 25♂32 | 18♂15 | 21♄41 | 24°R27 | 11°R26 | 12♄14 | 2♄27 | 12♄47 | F 1 |
| S 2 | 0 43 15 | 8°58'49 | 17°3 | 4°15 | 25°12 | 10°40 | 21♂0 | 25°32 | 18°16 | 21°43 | 24♂26 | 11♄22 | 12°11 | 2°34 | 12°52 | S 2 |
| S 3 | 0 47 12 | 9°57'31 | 0♂59 | 5°25 | 26°14 | 11°16 | 20°53 | 25°32 | 18°16 | 21°45 | 24°25 | 11°14 | 12°7 | 2°41 | 12°57 | S 3 |
| M 4 | 0 51 8 | 10°56'14 | 14°47 | 6°33 | 27°16 | 11°52 | 20°46 | 25°33 | 18°16 | 21°46 | 24°24 | 11°5 | 12°4 | 2°47 | 13°2 | M 4 |
| T 5 | 0 55 5 | 11°54'59 | 28°23 | 7°38 | 28°17 | 12°29 | 20°39 | 25°33 | 18°17 | 21°48 | 24°23 | 10°55 | 12°1 | 2°54 | 13°6 | T 5 |
| W 6 | 0 59 1 | 12°53'46 | 11♂44 | 8°42 | 29°19 | 13°5 | 20°32 | 25°34 | 18°17 | 21°49 | 24°22 | 10°45 | 11°58 | 3°1 | 13°11 | W 6 |
| T 7 | 1 2 58 | 13°52'35 | 24°48 | 9°44 | 0♂20 | 13°41 | 20°25 | 25°34 | 18°18 | 21°51 | 24°21 | 10°36 | 11°55 | 3°7 | 13°15 | T 7 |
| F 8 | 1 6 55 | 14°51'26 | 7♂35 | 10°43 | 1°21 | 14°16 | 20°19 | 25°35 | 18°18 | 21°52 | 24°19 | 10°30 | 11°51 | 3°14 | 13°20 | F 8 |
| S 9 | 1 10 51 | 15°50'19 | 20°4 | 11°39 | 2°21 | 14°52 | 20°12 | 25°36 | 18°19 | 21°54 | 24°18 | 10°25 | 11°48 | 3°20 | 13°24 | S 9 |
| S 10 | 1 14 48 | 16°49'15 | 2♄17 | 12°32 | 3°21 | 15°28 | 20°6 | 25°37 | 18°19 | 21°55 | 24°17 | 10°23 | 11°45 | 3°27 | 13°28 | S 10 |
| M11 | 1 18 44 | 17°48'12 | 14°18 | 13°22 | 4°21 | 16°3 | 20°0 | 25°38 | 18°20 | 21°57 | 24°16 | 10°D23 | 11°42 | 3°34 | 13°33 | M11 |
| T 12 | 1 22 41 | 18°47'12 | 26°11 | 14°9 | 5°20 | 16°39 | 19°54 | 25°39 | 18°21 | 21°58 | 24°15 | 10°24 | 11°39 | 3°40 | 13°37 | T 12 |
| W13 | 1 26 37 | 19°46'14 | 7♄59 | 14°52 | 6°19 | 17°14 | 19°48 | 25°40 | 18°21 | 22°0 | 24°14 | 10°25 | 11°36 | 3°47 | 13°41 | W13 |
| T 14 | 1 30 34 | 20°45'19 | 19°49 | 15°31 | 7°18 | 17°49 | 19°42 | 25°42 | 18°22 | 22°1 | 24°12 | 10°R26 | 11°32 | 3°54 | 13°45 | T 14 |
| F 15 | 1 34 30 | 21°44'25 | 1♄46 | 16°5 | 8°16 | 18°25 | 19°36 | 25°43 | 18°23 | 22°2 | 24°11 | 10°25 | 11°29 | 4°0 | 13°49 | F 15 |
| S 16 | 1 38 27 | 22°43'34 | 13°54 | 16°34 | 9°14 | 19°0 | 19°31 | 25°45 | 18°24 | 22°4 | 24°10 | 10°22 | 11°26 | 4°7 | 13°52 | S 16 |
| S 17 | 1 42 24 | 23°42'45 | 26°19 | 16°59 | 10°11 | 19°35 | 19°26 | 25°46 | 18°25 | 22°5 | 24°9 | 10°18 | 11°23 | 4°14 | 13°56 | S 17 |
| M18 | 1 46 20 | 24°41'58 | 9♄3 | 17°17 | 11°8 | 20°9 | 19°20 | 25°48 | 18°26 | 22°6 | 24°8 | 10°12 | 11°20 | 4°20 | 14°0 | M18 |
| T 19 | 1 50 17 | 25°41'14 | 22°10 | 17°29 | 12°4 | 20°44 | 19°15 | 25°50 | 18°27 | 22°7 | 24°7 | 10°5 | 11°17 | 4°27 | 14°4 | T 19 |
| W20 | 1 54 13 | 26°40'31 | 5♄39 | 17°R35 | 13°0 | 21°19 | 19°11 | 25°52 | 18°28 | 22°8 | 24°6 | 9°57 | 11°13 | 4°34 | 14°7 | W20 |
| T 21 | 1 58 10 | 27°39'51 | 19°29 | 17°33 | 13°56 | 21°53 | 19°6 | 25°54 | 18°29 | 22°10 | 24°4 | 9°50 | 11°10 | 4°40 | 14°11 | T 21 |
| F 22 | 2 2 6 | 28°39'13 | 3♄37 | 17°24 | 14°51 | 22°28 | 19°1 | 25°56 | 18°31 | 22°11 | 24°3 | 9°45 | 11°7 | 4°47 | 14°14 | F 22 |
| S 23 | 2 6 3 | 29°38'37 | 17°58 | 17°6 | 15°45 | 23°2 | 18°57 | 25°58 | 18°32 | 22°12 | 24°2 | 9°41 | 11°4 | 4°54 | 14°17 | S 23 |
| S 24 | 2 9 59 | 0♄38'02 | 2♂26 | 16°41 | 16°39 | 23°36 | 18°53 | 26°1 | 18°33 | 22°13 | 24°1 | 9°39 | 11°1 | 5°0 | 14°20 | S 24 |
| M25 | 2 13 56 | 1°37'30 | 16°55 | 16°6 | 17°32 | 24°10 | 18°49 | 26°3 | 18°35 | 22°14 | 24°0 | 9°D39 | 10°57 | 5°7 | 14°23 | M25 |
| T 26 | 2 17 52 | 2°37'00 | 1♂22 | 15°24 | 18°25 | 24°44 | 18°45 | 26°5 | 18°36 | 22°15 | 23°59 | 9°40 | 10°54 | 5°14 | 14°26 | T 26 |
| W27 | 2 21 49 | 3°36'31 | 15°41 | 14°33 | 19°17 | 25°17 | 18°42 | 26°8 | 18°38 | 22°16 | 23°57 | 9°41 | 10°51 | 5°20 | 14°29 | W27 |
| T 28 | 2 25 46 | 4°36'04 | 29°52 | 13°35 | 20°8 | 25°51 | 18°39 | 26°11 | 18°39 | 22°17 | 23°56 | 9°R42 | 10°48 | 5°27 | 14°32 | T 28 |
| F 29 | 2 29 42 | 5°35'38 | 13♂52 | 12°30 | 20°59 | 26°25 | 18°35 | 26°14 | 18°41 | 22°18 | 23°55 | 9°42 | 10°45 | 5°34 | 14°35 | F 29 |
| S 30 | 2 33 39 | 6°35'14 | 27°40 | 11°20 | 21°49 | 26°58 | 18°32 | 26°16 | 18°42 | 22°19 | 23°54 | 9°41 | 10°42 | 5°40 | 14°38 | S 30 |
| S 31 | 2 37 35 | 7♄34'52 | 11♂16 | 10♄6 | 22♂38 | 27♄31 | 18♂30 | 26♂19 | 18♂44 | 22♄20 | 23♂53 | 9♄37 | 10♄38 | 5♄47 | 14♄40 | S 31 |

Delta T = 18m54s

ASTRODIENST EPHEMERIS for the year 2579
geocentric

NOVEMBER 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|--------|------|-----|
| M 1 | 2 41 32 | 8♐34'31 | 24♋40 | 8°R51 | 23♌26 | 28♏ 4 | 18°R27 | 26♋22 | 18♌46 | 22♏20 | 23°R52 | 9°R33 | 10♐35 | 5♌54 | 14♏43 | M 1 | |
| T 2 | 2 45 28 | 9°34'12 | 7°V51 | 7♐36 | 24°14 | 28°37 | 18♋25 | 26°26 | 18°47 | 22°21 | 23°V51 | 9♐28 | 10°32 | 6° 0 | 14°45 | T 2 | |
| W 3 | 2 49 25 | 10°33'55 | 20°48 | 6°24 | 25° 1 | 29°10 | 18°22 | 26°29 | 18°49 | 22°22 | 23°50 | 9°23 | 10°29 | 6° 7 | 14°48 | W 3 | |
| T 4 | 2 53 21 | 11°33'40 | 3♌31 | 5°18 | 25°47 | 29°43 | 18°20 | 26°32 | 18°51 | 22°23 | 23°49 | 9°19 | 10°26 | 6°14 | 14°50 | T 4 | |
| F 5 | 2 57 18 | 12°33'27 | 16° 1 | 4°18 | 26°32 | 0♐15 | 18°19 | 26°35 | 18°53 | 22°23 | 23°47 | 9°16 | 10°22 | 6°20 | 14°52 | F 5 | |
| S 6 | 3 1 15 | 13°33'16 | 28°19 | 3°28 | 27°16 | 0°47 | 18°17 | 26°39 | 18°55 | 22°24 | 23°46 | 9°14 | 10°19 | 6°27 | 14°54 | S 6 | |
| S 7 | 3 5 11 | 14°33'06 | 10♐25 | 2°47 | 27°59 | 1°20 | 18°16 | 26°43 | 18°57 | 22°25 | 23°45 | 9°D13 | 10°16 | 6°34 | 14°56 | S 7 | |
| M 8 | 3 9 8 | 15°32'59 | 22°22 | 2°17 | 28°41 | 1°52 | 18°14 | 26°46 | 18°59 | 22°25 | 23°44 | 9°14 | 10°13 | 6°40 | 14°58 | M 8 | |
| T 9 | 3 13 4 | 16°32'54 | 4♌13 | 1°59 | 29°22 | 2°24 | 18°13 | 26°50 | 19° 1 | 22°26 | 23°43 | 9°15 | 10°10 | 6°47 | 15° 0 | T 9 | |
| W10 | 3 17 1 | 17°32'51 | 16° 1 | 1°D53 | 0♋ 2 | 2°55 | 18°13 | 26°54 | 19° 3 | 22°26 | 23°42 | 9°17 | 10° 7 | 6°54 | 15° 1 | W10 | |
| T 11 | 3 20 57 | 18°32'50 | 27°50 | 1°57 | 0°40 | 3°27 | 18°12 | 26°58 | 19° 5 | 22°27 | 23°41 | 9°19 | 10° 3 | 7° 0 | 15° 3 | T 11 | |
| F 12 | 3 24 54 | 19°32'51 | 9♏45 | 2°13 | 1°18 | 3°59 | 18°12 | 27° 2 | 19° 7 | 22°27 | 23°40 | 9°20 | 10° 0 | 7° 7 | 15° 4 | F 12 | |
| S 13 | 3 28 50 | 20°32'54 | 21°52 | 2°38 | 1°54 | 4°30 | 18°D12 | 27° 6 | 19°10 | 22°28 | 23°39 | 9°R20 | 9°57 | 7°14 | 15° 6 | S 13 | |
| S 14 | 3 32 47 | 21°32'59 | 4♐14 | 3°13 | 2°29 | 5° 1 | 18°12 | 27°10 | 19°12 | 22°28 | 23°38 | 9°20 | 9°54 | 7°20 | 15° 7 | S 14 | |
| M15 | 3 36 44 | 22°33'06 | 16°56 | 3°56 | 3° 2 | 5°32 | 18°12 | 27°14 | 19°14 | 22°28 | 23°37 | 9°18 | 9°51 | 7°27 | 15° 8 | M15 | |
| T 16 | 3 40 40 | 23°33'16 | 0♌ 2 | 4°47 | 3°34 | 6° 3 | 18°12 | 27°18 | 19°17 | 22°29 | 23°36 | 9°16 | 9°48 | 7°33 | 15° 9 | T 16 | |
| W17 | 3 44 37 | 24°33'27 | 13°33 | 5°45 | 4° 5 | 6°33 | 18°13 | 27°23 | 19°19 | 22°29 | 23°35 | 9°14 | 9°44 | 7°40 | 15°10 | W17 | |
| T 18 | 3 48 33 | 25°33'40 | 27°30 | 6°48 | 4°34 | 7° 4 | 18°14 | 27°27 | 19°21 | 22°29 | 23°34 | 9°12 | 9°41 | 7°47 | 15°11 | T 18 | |
| F 19 | 3 52 30 | 26°33'55 | 11♐51 | 7°56 | 5° 2 | 7°34 | 18°15 | 27°32 | 19°24 | 22°29 | 23°33 | 9°11 | 9°38 | 7°53 | 15°12 | F 19 | |
| S 20 | 3 56 26 | 27°34'12 | 26°30 | 9° 9 | 5°28 | 8° 4 | 18°16 | 27°36 | 19°26 | 22°30 | 23°32 | 9°10 | 9°35 | 8° 0 | 15°13 | S 20 | |
| S 21 | 4 0 23 | 28°34'31 | 11♌21 | 10°26 | 5°52 | 8°34 | 18°18 | 27°41 | 19°29 | 22°30 | 23°31 | 9°D10 | 9°32 | 8° 7 | 15°13 | S 21 | |
| M22 | 4 4 19 | 29°34'51 | 26°17 | 11°45 | 6°14 | 9° 4 | 18°19 | 27°46 | 19°32 | 22°30 | 23°30 | 9°10 | 9°28 | 8°13 | 15°14 | M22 | |
| T 23 | 4 8 16 | 0♌35'13 | 11♋ 9 | 13° 8 | 6°35 | 9°33 | 18°21 | 27°50 | 19°34 | 22°30 | 23°29 | 9°11 | 9°25 | 8°20 | 15°14 | T 23 | |
| W24 | 4 12 13 | 1°35'37 | 25°51 | 14°32 | 6°54 | 10° 2 | 18°23 | 27°55 | 19°37 | 22°30 | 23°29 | 9°12 | 9°22 | 8°27 | 15°15 | W24 | |
| T 25 | 4 16 9 | 2°36'01 | 10♌17 | 15°59 | 7°10 | 10°32 | 18°25 | 28° 0 | 19°40 | 22°R30 | 23°28 | 9°12 | 9°19 | 8°33 | 15°15 | T 25 | |
| F 26 | 4 20 6 | 3°36'27 | 24°24 | 17°27 | 7°25 | 11° 0 | 18°28 | 28° 5 | 19°42 | 22°30 | 23°27 | 9°13 | 9°16 | 8°40 | 15°15 | F 26 | |
| S 27 | 4 24 2 | 4°36'54 | 8♋11 | 18°57 | 7°38 | 11°29 | 18°31 | 28°10 | 19°45 | 22°30 | 23°26 | 9°R13 | 9°13 | 8°47 | 15°R15 | S 27 | |
| S 28 | 4 27 59 | 5°37'23 | 21°38 | 20°27 | 7°48 | 11°57 | 18°33 | 28°15 | 19°48 | 22°30 | 23°25 | 9°12 | 9° 9 | 8°53 | 15°15 | S 28 | |
| M29 | 4 31 55 | 6°37'52 | 4°V47 | 21°58 | 7°56 | 12°26 | 18°37 | 28°21 | 19°51 | 22°30 | 23°24 | 9°12 | 9° 6 | 9° 0 | 15°15 | M29 | |
| T 30 | 4 35 52 | 7°38'23 | 17°V38 | 23♐30 | 8° 2 | 12♐54 | 18♋40 | 28°26 | 19°54 | 22°R29 | 23°V24 | 9°R12 | 9°R12 | 9°R12 | 15°R14 | T 30 | |

Delta T = 18m55s

DECEMBER 2579

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|--------|--------|------|-----|
| W 1 | 4 39 49 | 8♌38'55 | 0♌15 | 25♐ 3 | 8♋ 6 | 13♐21 | 18♋43 | 28♋31 | 19°S56 | 22°R29 | 23°R23 | 9°R12 | 9°R12 | 9°R12 | 15°R14 | W 1 | |
| T 2 | 4 43 45 | 9°39'28 | 12°39 | 26°36 | 8°R 7 | 13°49 | 18°47 | 28°37 | 19°59 | 22°R29 | 23°V22 | 9°D12 | 8°57 | 9°20 | 15°R13 | T 2 | |
| F 3 | 4 47 42 | 10°40'03 | 24°53 | 28° 9 | 8° 5 | 14°16 | 18°51 | 28°42 | 20° 2 | 22°29 | 23°21 | 9°R12 | 8°54 | 9°27 | 15°13 | F 3 | |
| S 4 | 4 51 38 | 11°40'39 | 6♐58 | 29°43 | 8° 2 | 14°43 | 18°55 | 28°48 | 20° 5 | 22°29 | 23°21 | 9°R12 | 8°50 | 9°33 | 15°12 | S 4 | |
| S 5 | 4 55 35 | 12°41'17 | 18°55 | 1♌16 | 7°55 | 15°10 | 18°59 | 28°53 | 20° 8 | 22°28 | 23°20 | 9°12 | 8°47 | 9°40 | 15°11 | S 5 | |
| M 6 | 4 59 31 | 13°41'56 | 0♌47 | 2°50 | 7°47 | 15°37 | 19° 4 | 28°59 | 20°11 | 22°28 | 23°19 | 9°12 | 8°44 | 9°47 | 15°11 | M 6 | |
| T 7 | 5 3 28 | 14°42'36 | 12°37 | 4°24 | 7°35 | 16° 3 | 19° 8 | 29° 5 | 20°14 | 22°27 | 23°19 | 9°11 | 8°41 | 9°53 | 15°10 | T 7 | |
| W 8 | 5 7 24 | 15°43'17 | 24°25 | 5°58 | 7°22 | 16°29 | 19°13 | 29°10 | 20°17 | 22°27 | 23°18 | 9°10 | 8°38 | 10° 0 | 15° 8 | W 8 | |
| T 9 | 5 11 21 | 16°44'00 | 6♏16 | 7°32 | 7° 6 | 16°55 | 19°18 | 29°16 | 20°21 | 22°27 | 23°17 | 9° 9 | 8°34 | 10° 7 | 15° 7 | T 9 | |
| F 10 | 5 15 18 | 17°44'45 | 18°12 | 9° 6 | 6°47 | 17°21 | 19°23 | 29°22 | 20°24 | 22°26 | 23°17 | 9° 8 | 8°31 | 10°13 | 15° 6 | F 10 | |
| S 11 | 5 19 14 | 18°45'31 | 0♐18 | 10°40 | 6°27 | 17°46 | 19°28 | 29°28 | 20°27 | 22°26 | 23°16 | 9° 7 | 8°28 | 10°20 | 15° 5 | S 11 | |
| S 12 | 5 23 11 | 19°46'18 | 12°37 | 12°14 | 6° 4 | 18°11 | 19°34 | 29°34 | 20°30 | 22°25 | 23°16 | 9° 7 | 8°25 | 10°27 | 15° 3 | S 12 | |
| M13 | 5 27 7 | 20°47'07 | 25°13 | 13°48 | 5°39 | 18°36 | 19°40 | 29°40 | 20°33 | 22°24 | 23°15 | 9°D 6 | 8°22 | 10°33 | 15° 2 | M13 | |
| T 14 | 5 31 4 | 21°47'57 | 8♌11 | 15°22 | 5°12 | 19° 0 | 19°45 | 29°46 | 20°37 | 22°24 | 23°15 | 9° 7 | 8°19 | 10°40 | 15° 0 | T 14 | |
| W15 | 5 35 0 | 22°48'48 | 21°34 | 16°56 | 4°43 | 19°24 | 19°51 | 29°52 | 20°40 | 22°23 | 23°14 | 9° 8 | 8°15 | 10°47 | 14°58 | W15 | |
| T 16 | 5 38 57 | 23°49'41 | 5♐24 | 18°30 | 4°12 | 19°48 | 19°58 | 29°58 | 20°43 | 22°22 | 23°14 | 9° 9 | 8°12 | 10°53 | 14°56 | T 16 | |
| F 17 | 5 42 53 | 24°50'35 | 19°41 | 20° 4 | 3°40 | 20°11 | 20° 4 | 0♌ 4 | 20°46 | 22°22 | 23°13 | 9°10 | 8° 9 | 11° 0 | 14°55 | F 17 | |
| S 18 | 5 46 50 | 25°51'30 | 4♌23 | 21°38 | 3° 7 | 20°34 | 20°11 | 0°11 | 20°50 | 22°21 | 23°13 | 9°R11 | 8° 6 | 11° 7 | 14°53 | S 18 | |
| S 19 | 5 50 47 | 26°52'27 | 19°24 | 23°12 | 2°32 | 20°57 | 20°17 | 0°17 | 20°53 | 22°20 | 23°12 | 9°11 | 8° 3 | 11°13 | 14°50 | S 19 | |
| M20 | 5 54 43 | 27°53'24 | 4♋36 | 24°46 | 1°57 | 21°20 | 20°24 | 0°23 | 20°56 | 22°19 | 23°12 | 9°10 | 8° 0 | 11°20 | 14°48 | M20 | |
| T 21 | 5 58 40 | 28°54'23 | 19°49 | 26°20 | 1°21 | 21°42 | 20°31 | 0°30 | 21° 0 | 22°19 | 23°11 | 9° 7 | 7°56 | 11°27 | 14°46 | T 21 | |
| W22 | 6 2 36 | 29°55'22 | 4♌53 | 27°55 | 0°45 | 22° 4 | 20°38 | 0°36 | 21° 3 | 22°18 | 23°11 | 9° 5 | 7°53 | 11°33 | 14°44 | W22 | |
| T 23 | 6 6 33 | 0♌56'21 | 19°40 | 29°29 | 0° 9 | 22°25 | 20°46 | 0°43 | 21° 7 | 22°17 | 23°11 | 9° 2 | 7°50 | 11°40 | 14°41 | T 23 | |
| F 24 | 6 10 29 | 1°57'21 | 4♋ 3 | 1♋ 3 | 29♌32 | 22°46 | 20°53 | 0°49 | 21°10 | 22°16 | 23°10 | 8°59 | 7°47 | 11°47 | 14°39 | F 24 | |
| S 25 | 6 14 26 | 2°58'22 | 18° 0 | 2°38 | 28°56 | 23° 7 | 21° 1 | 0°56 | 21°14 | 22°15 | 23°10 | 8°57 | 7°44 | 11°53 | 14°36 | S 25 | |
| S 26 | 6 18 22 | 3°59'23 | 1°V30 | 4°12 | 28°21 | 23°27 | 21° 9 | 1° 2 | 21°17 | 22°14 | 23°10 | 8°D56 | 7°40 | 12° 0 | 14°33 | S 26 | |
| M27 | 6 22 19 | 5° 0'24 | 14°35 | 5°47 | 27°46 | 23°47 | 21°17 | 1° 9 | 21°20 | 22°13 | 23°10 | 8°57 | 7°37 | 12° 7 | 14°31 | M27 | |
| T 28 | 6 26 16 | 6° 1'25 | 27°18 | 7°22 | 27°13 | 24° 7 | 21°25 | 1°15 | 21°24 | 22°12 | 23° 9 | 8°58 | 7°34 | 12°13 | 14°28 | T 28 | |
| W29 | 6 30 12 | 7° 2'27 | 9♋43 | 8°57 | 26°41 | 24°26 | 21°33 | 1°22 | 21°27 | 22°11 | 23° 9 | 9° 0 | 7°31 | 12°20 | 14°25 | W29 | |
| T 30 | 6 34 9 | 8° 3'30 | 21°55 | 10°32 | 26°10 | 24°44 | 21°42 | 1°29 | 21°31 | 22°10 | 23° 9 | 9° 1 | 7°28 | 12°27 | 14°22 | T 30 | |
| F 31 | 6 38 5 | 9♋ 4'33 | 3♐56 | 12♋ 7 | 25♌41 | 25♐ 3 | 21♋50 | 1°35 | 21°34 | 22°R 9 | 23°V 9 | 9°R 2 | 7°R25 | 12°R33 | 14°R19 | F 31 | |

Delta T = 18m55s

ASTRODIENST EPHEMERIS for the year 2580
geocentric

JANUARY 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|--------|-------|-------|------|-------|--------|--------|-------|------|-------|--------|------|---|---|---|---|---|---|---|-----|
| S 1 | 6 42 2 | 10☾5'36 | 15☾51 | 13☾43 | 25°R14 | 25♎21 | 21♏59 | 1☾42 | 21☾38 | 22°R 7 | 23°R 9 | 9°R 2 | 7☾21 | 12☾40 | 14°R16 | S 1 | | | | | | | | |
| S 2 | 6 45 58 | 11° 6'39 | 27°41 | 15°19 | 24♏49 | 25°38 | 22° 8 | 1°49 | 21°42 | 22☾ 6 | 23°R 8 | 9☾ 1 | 7°18 | 12°47 | 14☾12 | S 2 | | | | | | | | |
| M 3 | 6 49 55 | 12° 7'43 | 9☾31 | 16°55 | 24°26 | 25°55 | 22°17 | 1°56 | 21°45 | 22° 5 | 23° 8 | 8°57 | 7°15 | 12°54 | 14° 9 | M 3 | | | | | | | | |
| T 4 | 6 53 52 | 13° 8'48 | 21°20 | 18°31 | 24° 5 | 26°11 | 22°26 | 2° 3 | 21°49 | 22° 4 | 23° 8 | 8°52 | 7°12 | 13° 0 | 14° 6 | T 4 | | | | | | | | |
| W 5 | 6 57 48 | 14° 9'52 | 3☾12 | 20° 7 | 23°47 | 26°28 | 22°35 | 2°10 | 21°52 | 22° 3 | 23° 8 | 8°46 | 7° 9 | 13° 7 | 14° 2 | W 5 | | | | | | | | |
| T 6 | 7 1 45 | 15°10'57 | 15° 8 | 21°44 | 23°31 | 26°43 | 22°45 | 2°16 | 21°56 | 22° 1 | 23° 8 | 8°39 | 7° 6 | 13°14 | 13°59 | T 6 | | | | | | | | |
| F 7 | 7 5 41 | 16°12'03 | 27°10 | 23°21 | 23°18 | 26°58 | 22°54 | 2°23 | 21°59 | 22° 0 | 23°D 8 | 8°32 | 7° 2 | 13°20 | 13°55 | F 7 | | | | | | | | |
| S 8 | 7 9 38 | 17°13'09 | 9☾20 | 24°58 | 23° 7 | 27°13 | 23° 4 | 2°30 | 22° 3 | 21°59 | 23° 8 | 8°25 | 6°59 | 13°27 | 13°52 | S 8 | | | | | | | | |
| S 9 | 7 13 34 | 18°14'15 | 21°40 | 26°35 | 22°58 | 27°27 | 23°14 | 2°37 | 22° 6 | 21°57 | 23° 8 | 8°20 | 6°56 | 13°34 | 13°48 | S 9 | | | | | | | | |
| M10 | 7 17 31 | 19°15'22 | 4☾15 | 28°12 | 22°52 | 27°40 | 23°23 | 2°44 | 22°10 | 21°56 | 23° 8 | 8°17 | 6°53 | 13°40 | 13°44 | M10 | | | | | | | | |
| T 11 | 7 21 27 | 20°16'29 | 17° 8 | 29°50 | 22°49 | 27°53 | 23°33 | 2°51 | 22°14 | 21°55 | 23° 8 | 8°D16 | 6°50 | 13°47 | 13°40 | T 11 | | | | | | | | |
| W12 | 7 25 24 | 21°17'36 | 0☾21 | 1☾28 | 22°D48 | 28° 6 | 23°44 | 2°58 | 22°17 | 21°53 | 23° 9 | 8°16 | 6°46 | 13°54 | 13°37 | W12 | | | | | | | | |
| T 13 | 7 29 21 | 22°18'44 | 13°58 | 3° 5 | 22°49 | 28°18 | 23°54 | 3° 5 | 22°21 | 21°52 | 23° 9 | 8°17 | 6°43 | 14° 0 | 13°33 | T 13 | | | | | | | | |
| F 14 | 7 33 17 | 23°19'52 | 28° 1 | 4°43 | 22°53 | 28°29 | 24° 4 | 3°12 | 22°24 | 21°51 | 23° 9 | 8°19 | 6°40 | 14° 7 | 13°29 | F 14 | | | | | | | | |
| S 15 | 7 37 14 | 24°21'01 | 12☾29 | 6°21 | 22°59 | 28°40 | 24°15 | 3°19 | 22°28 | 21°49 | 23° 9 | 8°R19 | 6°37 | 14°14 | 13°25 | S 15 | | | | | | | | |
| S 16 | 7 41 10 | 25°22'10 | 27°21 | 7°58 | 23° 8 | 28°50 | 24°25 | 3°26 | 22°32 | 21°48 | 23° 9 | 8°17 | 6°34 | 14°20 | 13°21 | S 16 | | | | | | | | |
| M17 | 7 45 7 | 26°23'19 | 12☾29 | 9°35 | 23°19 | 29° 0 | 24°36 | 3°33 | 22°35 | 21°46 | 23° 9 | 8°14 | 6°31 | 14°27 | 13°17 | M17 | | | | | | | | |
| T 18 | 7 49 3 | 27°24'28 | 27°46 | 11°12 | 23°32 | 29° 9 | 24°47 | 3°40 | 22°39 | 21°45 | 23°10 | 8° 8 | 6°27 | 14°34 | 13°13 | T 18 | | | | | | | | |
| W19 | 7 53 0 | 28°25'36 | 12☾59 | 12°48 | 23°47 | 29°17 | 24°58 | 3°48 | 22°42 | 21°43 | 23°10 | 8° 0 | 6°24 | 14°40 | 13° 9 | W19 | | | | | | | | |
| T 20 | 7 56 56 | 29°26'45 | 27°59 | 14°23 | 24° 4 | 29°25 | 25° 9 | 3°55 | 22°46 | 21°42 | 23°10 | 7°51 | 6°21 | 14°47 | 13° 4 | T 20 | | | | | | | | |
| F 21 | 8 0 53 | 0☾27'53 | 12☾37 | 15°57 | 24°23 | 29°32 | 25°20 | 4° 2 | 22°50 | 21°40 | 23°11 | 7°43 | 6°18 | 14°54 | 13° 0 | F 21 | | | | | | | | |
| S 22 | 8 4 50 | 1°29'00 | 26°47 | 17°30 | 24°44 | 29°38 | 25°31 | 4° 9 | 22°53 | 21°39 | 23°11 | 7°37 | 6°15 | 15° 0 | 12°56 | S 22 | | | | | | | | |
| S 23 | 8 8 46 | 2°30'07 | 10☾27 | 19° 2 | 25° 7 | 29°44 | 25°43 | 4°16 | 22°57 | 21°37 | 23°11 | 7°32 | 6°12 | 15° 7 | 12°52 | S 23 | | | | | | | | |
| M24 | 8 12 43 | 3°31'13 | 23°37 | 20°31 | 25°32 | 29°49 | 25°54 | 4°23 | 23° 0 | 21°35 | 23°12 | 7°30 | 6° 8 | 15°14 | 12°47 | M24 | | | | | | | | |
| T 25 | 8 16 39 | 4°32'18 | 6☾22 | 21°58 | 25°58 | 29°54 | 26° 6 | 4°30 | 23° 4 | 21°34 | 23°12 | 7°D29 | 6° 5 | 15°20 | 12°43 | T 25 | | | | | | | | |
| W26 | 8 20 36 | 5°33'23 | 18°46 | 23°22 | 26°26 | 29°57 | 26°18 | 4°37 | 23° 7 | 21°32 | 23°13 | 7°30 | 6° 2 | 15°27 | 12°39 | W26 | | | | | | | | |
| T 27 | 8 24 32 | 6°34'27 | 0☾53 | 24°42 | 26°56 | 0☾ 0 | 26°29 | 4°44 | 23°11 | 21°31 | 23°13 | 7°31 | 5°59 | 15°34 | 12°34 | T 27 | | | | | | | | |
| F 28 | 8 28 29 | 7°35'31 | 12°49 | 25°59 | 27°28 | 0° 2 | 26°41 | 4°52 | 23°14 | 21°29 | 23°13 | 7°R31 | 5°56 | 15°40 | 12°30 | F 28 | | | | | | | | |
| S 29 | 8 32 25 | 8°36'33 | 24°39 | 27°10 | 28° 0 | 0° 4 | 26°53 | 4°59 | 23°18 | 21°27 | 23°14 | 7°29 | 5°52 | 15°47 | 12°26 | S 29 | | | | | | | | |
| S 30 | 8 36 22 | 9°37'35 | 6☾26 | 28°17 | 28°35 | 0° 5 | 27° 5 | 5° 6 | 23°21 | 21°26 | 23°14 | 7°25 | 5°49 | 15°54 | 12°21 | S 30 | | | | | | | | |
| M31 | 8 40 19 | 10☾38'37 | 18☾15 | 29°16 | 29°10 | 0°R 5 | 27♏17 | 5☾13 | 23☾25 | 21☾24 | 23°R15 | 7☾18 | 5☾46 | 16☾ 0 | 12☾17 | M31 | | | | | | | | |

Delta T = 18m55s

FEBRUARY 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|------|-------|--------|--------|-------|------|-------|--------|------|---|---|---|---|---|---|---|-----|
| T 1 | 8 44 15 | 11☾39'37 | 0☾ 7 | 0☾ 9 | 29°R47 | 0°R 4 | 27♏29 | 5☾20 | 23☾28 | 21°R22 | 23°R16 | 7°R 8 | 5☾43 | 16☾ 7 | 12°R13 | T 1 | | | | | | | | |
| W 2 | 8 48 12 | 12°40'37 | 12° 5 | 0°54 | 0☾25 | 0☾ 3 | 27°42 | 5°27 | 23°32 | 21☾21 | 23°16 | 6☾56 | 5°40 | 16°14 | 12☾ 8 | W 2 | | | | | | | | |
| T 3 | 8 52 8 | 13°41'36 | 24°10 | 1°30 | 1° 5 | 0° 1 | 27°54 | 5°34 | 23°35 | 21°19 | 23°17 | 6°43 | 5°37 | 16°20 | 12° 4 | T 3 | | | | | | | | |
| F 4 | 8 56 5 | 14°42'34 | 6☾23 | 1°56 | 1°46 | 29♎58 | 28° 7 | 5°41 | 23°39 | 21°17 | 23°17 | 6°30 | 5°33 | 16°27 | 11°59 | F 4 | | | | | | | | |
| S 5 | 9 0 1 | 15°43'31 | 18°45 | 2°12 | 2°28 | 29°54 | 28°19 | 5°48 | 23°42 | 21°16 | 23°18 | 6°18 | 5°30 | 16°34 | 11°55 | S 5 | | | | | | | | |
| S 6 | 9 3 58 | 16°44'28 | 1☾16 | 2°R17 | 3°10 | 29°49 | 28°32 | 5°55 | 23°45 | 21°14 | 23°19 | 6° 8 | 5°27 | 16°40 | 11°51 | S 6 | | | | | | | | |
| M 7 | 9 7 54 | 17°45'24 | 13°59 | 2°11 | 3°54 | 29°44 | 28°44 | 6° 2 | 23°49 | 21°12 | 23°19 | 6° 1 | 5°24 | 16°47 | 11°46 | M 7 | | | | | | | | |
| T 8 | 9 11 51 | 18°46'20 | 26°54 | 1°53 | 4°39 | 29°38 | 28°57 | 6° 9 | 23°52 | 21°11 | 23°20 | 5°56 | 5°21 | 16°54 | 11°42 | T 8 | | | | | | | | |
| W 9 | 9 15 48 | 19°47'15 | 10☾ 6 | 1°24 | 5°25 | 29°31 | 29°10 | 6°16 | 23°55 | 21° 9 | 23°21 | 5°54 | 5°18 | 17° 1 | 11°37 | W 9 | | | | | | | | |
| T 10 | 9 19 44 | 20°48'09 | 23°35 | 0°45 | 6°12 | 29°23 | 29°23 | 6°23 | 23°59 | 21° 7 | 23°22 | 5°D54 | 5°14 | 17° 7 | 11°33 | T 10 | | | | | | | | |
| F 11 | 9 23 41 | 21°49'03 | 7☾25 | 29☾56 | 7° 0 | 29°15 | 29°36 | 6°30 | 24° 2 | 21° 6 | 23°22 | 5°R54 | 5°11 | 17°14 | 11°29 | F 11 | | | | | | | | |
| S 12 | 9 27 37 | 22°49'56 | 21°36 | 28°58 | 7°49 | 29° 5 | 29°49 | 6°37 | 24° 5 | 21° 4 | 23°23 | 5°53 | 5° 8 | 17°21 | 11°25 | S 12 | | | | | | | | |
| S 13 | 9 31 34 | 23°50'49 | 6☾ 8 | 27°54 | 8°38 | 28°55 | 0°R 2 | 6°44 | 24° 8 | 21° 2 | 23°24 | 5°50 | 5° 5 | 17°27 | 11°20 | S 13 | | | | | | | | |
| M14 | 9 35 30 | 24°51'40 | 20°57 | 26°45 | 9°29 | 28°44 | 0°15 | 6°51 | 24°12 | 21° 0 | 23°25 | 5°45 | 5° 2 | 17°34 | 11°16 | M14 | | | | | | | | |
| T 15 | 9 39 27 | 25°52'31 | 5☾57 | 25°33 | 10°20 | 28°33 | 0°28 | 6°58 | 24°15 | 20°59 | 23°26 | 5°36 | 4°58 | 17°41 | 11°12 | T 15 | | | | | | | | |
| W16 | 9 43 23 | 26°53'20 | 21° 0 | 24°21 | 11°11 | 28°20 | 0°42 | 7° 5 | 24°18 | 20°57 | 23°26 | 5°26 | 4°55 | 17°47 | 11° 8 | W16 | | | | | | | | |
| T 17 | 9 47 20 | 27°54'09 | 5☾55 | 23° 9 | 12° 4 | 28° 7 | 0°55 | 7°11 | 24°21 | 20°55 | 23°27 | 5°14 | 4°52 | 17°54 | 11° 3 | T 17 | | | | | | | | |
| F 18 | 9 51 17 | 28°54'56 | 20°33 | 22° 1 | 12°57 | 27°53 | 1° 8 | 7°18 | 24°24 | 20°54 | 23°28 | 5° 2 | 4°49 | 18° 1 | 10°59 | F 18 | | | | | | | | |
| S 19 | 9 55 13 | 29°55'41 | 4☾48 | 20°57 | 13°51 | 27°38 | 1°22 | 7°25 | 24°27 | 20°52 | 23°29 | 4°51 | 4°46 | 18° 7 | 10°55 | S 19 | | | | | | | | |
| S 20 | 9 59 10 | 0☾56'26 | 18°34 | 19°59 | 14°45 | 27°23 | 1°35 | 7°32 | 24°30 | 20°50 | 23°30 | 4°44 | 4°43 | 18°14 | 10°51 | S 20 | | | | | | | | |
| M21 | 10 3 6 | 1°57'08 | 1☾51 | 19° 8 | 15°40 | 27° 6 | 1°49 | 7°38 | 24°33 | 20°49 | 23°31 | 4°38 | 4°39 | 18°21 | 10°47 | M21 | | | | | | | | |
| T 22 | 10 7 3 | 2°57'50 | 14°41 | 18°24 | 16°36 | 26°50 | 2° 3 | 7°45 | 24°37 | 20°47 | 23°32 | 4°36 | 4°36 | 18°27 | 10°43 | T 22 | | | | | | | | |
| W23 | 10 10 59 | 3°58'29 | 27° 9 | 17°48 | 17°32 | 26°32 | 2°16 | 7°52 | 24°39 | 20°45 | 23°33 | 4°35 | 4°33 | 18°34 | 10°39 | W23 | | | | | | | | |
| T 24 | 10 14 56 | 4°59'07 | 9☾18 | 17°20 | 18°28 | 26°14 | 2°30 | 7°58 | 24°42 | 20°44 | 23°34 | 4°35 | 4°30 | 18°41 | 10°36 | T 24 | | | | | | | | |
| F 25 | 10 18 52 | 5°59'44 | 21°15 | 17° 0 | 19°25 | 25°55 | 2°44 | 8° 5 | 24°45 | 20°42 | 23°35 | 4°34 | 4°27 | 18°47 | 10°32 | F 25 | | | | | | | | |
| S 26 | 10 22 49 | 7° 0'19 | 3☾ 4 | 16°47 | 20°23 | 25°36 | 2°58 | 8°11 | 24°48 | 20°41 | 23°36 | 4°32 | 4°24 | 18°54 | 10°28 | S 26 | | | | | | | | |
| S 27 | 10 26 46 | 8° 0'52 | 14°52 | 16°D43 | 21°21 | 25°16 | 3°11 | 8°18 | 24°51 | 20°39 | 23°37 | 4°28 | 4°20 | 19° 1 | 10°24 | S 27 | | | | | | | | |
| M28 | 10 30 42 | 9° 1'23 | 26°43 | 16°45 | 22°20 | 24°55 | 3°25 | 8°24 | 24°54 | 20°37 | 23°38 | 4°20 | 4°17 | 19° 7 | 10°21 | M28 | | | | | | | | |
| T 29 | 10 34 39 | 10☾ 1'53 | 8☾29 | 16☾53 | 23☾19 | 24☾35 | 3☾39 | 8☾31 | 24☾57 | 20☾36 | 23°R39 | 4☾10 | 4☾14 | 19☾14 | 10☾17 | T 29 | | | | | | | | |

Delta T = 18m56s

ASTRODIENST EPHEMERIS for the year 2580
geocentric

MARCH 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|------|-------|--------|------|-----|
| W 1 | 10 38 35 | 11♈ 2'21 | 20♌44 | 17♍ 8 | 24♋18 | 24°R13 | 3♃53 | 8♁37 | 25♋ 0 | 20°R34 | 23♃40 | 3°R58 | 4♂11 | 19♌21 | 10°R14 | W 1 | |
| T 2 | 10 42 32 | 12° 2'47 | 3♎ 0 | 17°29 | 25°18 | 23♎51 | 4° 7 | 8°44 | 25° 2 | 20♌33 | 23°41 | 3♂44 | 4° 8 | 19°28 | 10♌10 | T 2 | |
| F 3 | 10 46 28 | 13° 3'12 | 15°27 | 17°55 | 26°18 | 23°29 | 4°21 | 8°50 | 25° 5 | 20°31 | 23°43 | 3°30 | 4° 4 | 19°34 | 10° 7 | F 3 | |
| S 4 | 10 50 25 | 14° 3'35 | 28° 5 | 18°27 | 27°19 | 23° 7 | 4°35 | 8°56 | 25° 8 | 20°30 | 23°44 | 3°16 | 4° 1 | 19°41 | 10° 3 | S 4 | |
| S 5 | 10 54 21 | 15° 3'56 | 10♌55 | 19° 3 | 28°20 | 22°44 | 4°50 | 9° 2 | 25°10 | 20°28 | 23°45 | 3° 5 | 3°58 | 19°48 | 10° 0 | S 5 | |
| M 6 | 10 58 18 | 16° 4'16 | 23°55 | 19°43 | 29°21 | 22°21 | 5° 4 | 9° 9 | 25°13 | 20°27 | 23°46 | 2°57 | 3°55 | 19°54 | 9°57 | M 6 | |
| T 7 | 11 2 15 | 17° 4'35 | 7♎ 6 | 20°27 | 0♎23 | 21°58 | 5°18 | 9°15 | 25°15 | 20°25 | 23°47 | 2°52 | 3°52 | 20° 1 | 9°54 | T 7 | |
| W 8 | 11 6 11 | 18° 4'52 | 20°28 | 21°15 | 1°25 | 21°34 | 5°32 | 9°21 | 25°18 | 20°24 | 23°48 | 2°50 | 3°49 | 20° 8 | 9°51 | W 8 | |
| T 9 | 11 10 8 | 19° 5'08 | 4♌ 3 | 22° 6 | 2°27 | 21°10 | 5°46 | 9°27 | 25°20 | 20°22 | 23°50 | 2°D49 | 3°45 | 20°14 | 9°48 | T 9 | |
| F 10 | 11 14 4 | 20° 5'22 | 17°50 | 23° 1 | 3°30 | 20°47 | 6° 1 | 9°33 | 25°23 | 20°21 | 23°51 | 2°R49 | 3°42 | 20°21 | 9°45 | F 10 | |
| S 11 | 11 18 1 | 21° 5'35 | 1♌52 | 23°59 | 4°33 | 20°23 | 6°15 | 9°39 | 25°25 | 20°19 | 23°52 | 2°49 | 3°39 | 20°28 | 9°42 | S 11 | |
| S 12 | 11 21 57 | 22° 5'47 | 16° 6 | 24°59 | 5°36 | 19°59 | 6°29 | 9°45 | 25°28 | 20°18 | 23°53 | 2°47 | 3°36 | 20°34 | 9°39 | S 12 | |
| M13 | 11 25 54 | 23° 5'57 | 0♎33 | 26° 2 | 6°39 | 19°35 | 6°44 | 9°50 | 25°30 | 20°17 | 23°55 | 2°42 | 3°33 | 20°41 | 9°37 | M13 | |
| T 14 | 11 29 50 | 24° 6'06 | 15° 8 | 27° 7 | 7°43 | 19°12 | 6°58 | 9°56 | 25°32 | 20°15 | 23°56 | 2°35 | 3°30 | 20°48 | 9°34 | T 14 | |
| W15 | 11 33 47 | 25° 6'12 | 29°46 | 28°14 | 8°47 | 18°48 | 7°12 | 10° 2 | 25°34 | 20°14 | 23°57 | 2°26 | 3°26 | 20°54 | 9°32 | W15 | |
| T 16 | 11 37 44 | 26° 6'18 | 14♈19 | 29°24 | 9°52 | 18°25 | 7°27 | 10° 8 | 25°37 | 20°13 | 23°58 | 2°15 | 3°23 | 21° 1 | 9°29 | T 16 | |
| F 17 | 11 41 40 | 27° 6'21 | 28°40 | 0♈36 | 10°56 | 18° 1 | 7°41 | 10°13 | 25°39 | 20°11 | 24° 0 | 2° 4 | 3°20 | 21° 8 | 9°27 | F 17 | |
| S 18 | 11 45 37 | 28° 6'22 | 12♃43 | 1°49 | 12° 1 | 17°39 | 7°56 | 10°19 | 25°41 | 20°10 | 24° 1 | 1°55 | 3°17 | 21°14 | 9°25 | S 18 | |
| S 19 | 11 49 33 | 29° 6'22 | 26°23 | 3° 5 | 13° 6 | 17°16 | 8°10 | 10°24 | 25°43 | 20° 9 | 24° 2 | 1°48 | 3°14 | 21°21 | 9°23 | S 19 | |
| M20 | 11 53 30 | 0♃ 6'20 | 9♂39 | 4°22 | 14°11 | 16°54 | 8°25 | 10°30 | 25°45 | 20° 8 | 24° 4 | 1°43 | 3°10 | 21°28 | 9°20 | M20 | |
| T 21 | 11 57 26 | 1° 6'15 | 22°31 | 5°41 | 15°16 | 16°32 | 8°39 | 10°35 | 25°47 | 20° 6 | 24° 5 | 1°40 | 3° 7 | 21°35 | 9°19 | T 21 | |
| W22 | 12 1 23 | 2° 6'09 | 5♂ 1 | 7° 1 | 16°22 | 16°11 | 8°54 | 10°40 | 25°49 | 20° 5 | 24° 6 | 1°D40 | 3° 4 | 21°41 | 9°17 | W22 | |
| T 23 | 12 5 19 | 3° 6'00 | 17°14 | 8°23 | 17°28 | 15°50 | 9° 8 | 10°46 | 25°51 | 20° 4 | 24° 8 | 1°41 | 3° 1 | 21°48 | 9°15 | T 23 | |
| F 24 | 12 9 16 | 4° 5'49 | 29°13 | 9°46 | 18°34 | 15°29 | 9°23 | 10°51 | 25°53 | 20° 3 | 24° 9 | 1°R42 | 2°58 | 21°55 | 9°13 | F 24 | |
| S 25 | 12 13 12 | 5° 5'36 | 11♌ 5 | 11°11 | 19°40 | 15° 9 | 9°37 | 10°56 | 25°54 | 20° 2 | 24°10 | 1°41 | 2°55 | 22° 1 | 9°12 | S 25 | |
| S 26 | 12 17 9 | 6° 5'21 | 22°55 | 12°38 | 20°46 | 14°50 | 9°52 | 11° 1 | 25°56 | 20° 1 | 24°12 | 1°40 | 2°51 | 22° 8 | 9°10 | S 26 | |
| M27 | 12 21 6 | 7° 5'03 | 4♌48 | 14° 5 | 21°53 | 14°31 | 10° 6 | 11° 6 | 25°58 | 20° 0 | 24°13 | 1°36 | 2°48 | 22°15 | 9° 9 | M27 | |
| T 28 | 12 25 2 | 8° 4'44 | 16°48 | 15°35 | 23° 0 | 14°13 | 10°21 | 11°11 | 26° 0 | 19°59 | 24°14 | 1°30 | 2°45 | 22°21 | 9° 7 | T 28 | |
| W29 | 12 28 59 | 9° 4'22 | 28°58 | 17° 5 | 24° 6 | 13°56 | 10°36 | 11°16 | 26° 1 | 19°58 | 24°16 | 1°22 | 2°42 | 22°28 | 9° 6 | W29 | |
| T 30 | 12 32 55 | 10° 3'58 | 11♎23 | 18°37 | 25°13 | 13°39 | 10°50 | 11°20 | 26° 3 | 19°57 | 24°17 | 1°13 | 2°39 | 22°35 | 9° 5 | T 30 | |
| F 31 | 12 36 52 | 11♃ 3'32 | 24♎ 2 | 20♈10 | 26♎21 | 13♎23 | 11♃ 5 | 11♎25 | 26♋ 4 | 19♌56 | 24♃19 | 1♂ 3 | 2♂35 | 22♌41 | 9♌ 4 | F 31 | |

Delta T = 18m56s

APRIL 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|------|-------|-------|------|-----|
| S 1 | 12 40 48 | 12♃ 3'03 | 6♌57 | 21♈45 | 27♎28 | 13°R 7 | 11♃19 | 11♎30 | 26♋ 6 | 19°R55 | 24♃20 | 0°R54 | 2♂32 | 22♌48 | 9°R 3 | S 1 | |
| S 2 | 12 44 45 | 13° 2'33 | 20° 7 | 23°21 | 28°35 | 12♎53 | 11°34 | 11°34 | 26° 7 | 19♌54 | 24°21 | 0♂47 | 2°29 | 22°55 | 9♌ 2 | S 2 | |
| M 3 | 12 48 41 | 14° 2'01 | 3♎30 | 24°58 | 29°43 | 12°39 | 11°48 | 11°39 | 26° 9 | 19°53 | 24°23 | 0°42 | 2°26 | 23° 2 | 9° 1 | M 3 | |
| T 4 | 12 52 38 | 15° 1'27 | 17° 5 | 26°36 | 0♈51 | 12°25 | 12° 3 | 11°43 | 26°10 | 19°52 | 24°24 | 0°39 | 2°23 | 23° 8 | 9° 1 | T 4 | |
| W 5 | 12 56 35 | 16° 0'51 | 0♌50 | 28°16 | 1°59 | 12°13 | 12°17 | 11°48 | 26°11 | 19°51 | 24°26 | 0°D38 | 2°20 | 23°15 | 9° 0 | W 5 | |
| T 6 | 13 0 31 | 17° 0'13 | 14°43 | 29°57 | 3° 7 | 12° 1 | 12°32 | 11°52 | 26°12 | 19°51 | 24°27 | 0°39 | 2°16 | 23°22 | 9° 0 | T 6 | |
| F 7 | 13 4 28 | 17°59'34 | 28°42 | 1♃40 | 4°15 | 11°50 | 12°46 | 11°56 | 26°14 | 19°50 | 24°29 | 0°40 | 2°13 | 23°28 | 9° 0 | F 7 | |
| S 8 | 13 8 24 | 18°58'53 | 12♋48 | 3°24 | 5°23 | 11°40 | 13° 1 | 12° 0 | 26°15 | 19°49 | 24°30 | 0°R41 | 2°10 | 23°35 | 8°59 | S 8 | |
| S 9 | 13 12 21 | 19°58'10 | 26°57 | 5° 9 | 6°31 | 11°30 | 13°15 | 12° 4 | 26°16 | 19°49 | 24°31 | 0°41 | 2° 7 | 23°42 | 8°59 | S 9 | |
| M10 | 13 16 17 | 20°57'25 | 11♎10 | 6°56 | 7°40 | 11°22 | 13°30 | 12° 8 | 26°17 | 19°48 | 24°33 | 0°39 | 2° 4 | 23°48 | 8°D59 | M10 | |
| T 11 | 13 20 14 | 21°56'39 | 25°23 | 8°44 | 8°49 | 11°14 | 13°44 | 12°12 | 26°18 | 19°47 | 24°34 | 0°36 | 2° 1 | 23°55 | 8°59 | T 11 | |
| W12 | 13 24 10 | 22°55'51 | 9♈33 | 10°34 | 9°57 | 11° 7 | 13°59 | 12°16 | 26°19 | 19°47 | 24°36 | 0°31 | 1°57 | 24° 2 | 8°59 | W12 | |
| T 13 | 13 28 7 | 23°55'01 | 23°38 | 12°25 | 11° 6 | 11° 0 | 14°13 | 12°20 | 26°20 | 19°46 | 24°37 | 0°25 | 1°54 | 24° 8 | 9° 0 | T 13 | |
| F 14 | 13 32 4 | 24°54'09 | 7♃31 | 14°17 | 12°15 | 10°55 | 14°28 | 12°23 | 26°21 | 19°46 | 24°39 | 0°19 | 1°51 | 24°15 | 9° 0 | F 14 | |
| S 15 | 13 36 0 | 25°53'16 | 21°10 | 16°11 | 13°24 | 10°50 | 14°42 | 12°27 | 26°21 | 19°45 | 24°40 | 0°14 | 1°48 | 24°22 | 9° 0 | S 15 | |
| S 16 | 13 39 57 | 26°52'20 | 4♂33 | 18° 6 | 14°33 | 10°46 | 14°57 | 12°30 | 26°22 | 19°45 | 24°41 | 0°10 | 1°45 | 24°29 | 9° 1 | S 16 | |
| M17 | 13 43 53 | 27°51'22 | 17°36 | 20° 3 | 15°42 | 10°43 | 15°11 | 12°34 | 26°23 | 19°44 | 24°43 | 0° 8 | 1°41 | 24°35 | 9° 2 | M17 | |
| T 18 | 13 47 50 | 28°50'22 | 0♂11 | 22° 1 | 16°52 | 10°41 | 15°25 | 12°37 | 26°23 | 19°44 | 24°44 | 0°D 7 | 1°38 | 24°42 | 9° 2 | T 18 | |
| W19 | 13 51 46 | 29°49'21 | 12°48 | 24° 0 | 18° 1 | 10°39 | 15°40 | 12°40 | 26°24 | 19°44 | 24°46 | 0° 8 | 1°35 | 24°49 | 9° 3 | W19 | |
| T 20 | 13 55 43 | 0♌48'17 | 25° 1 | 26° 1 | 19°10 | 10°38 | 15°54 | 12°43 | 26°25 | 19°43 | 24°47 | 0° 9 | 1°32 | 24°55 | 9° 4 | T 20 | |
| F 21 | 13 59 39 | 1°47'11 | 7♌ 1 | 28° 3 | 20°20 | 10°D38 | 16° 8 | 12°46 | 26°25 | 19°43 | 24°49 | 0°11 | 1°29 | 25° 2 | 9° 5 | F 21 | |
| S 22 | 14 3 36 | 2°46'02 | 18°55 | 0♂ 6 | 21°30 | 10°39 | 16°23 | 12°49 | 26°25 | 19°43 | 24°50 | 0°13 | 1°26 | 25° 9 | 9° 6 | S 22 | |
| S 23 | 14 7 33 | 3°44'52 | 0♌46 | 2°10 | 22°39 | 10°40 | 16°37 | 12°52 | 26°26 | 19°42 | 24°51 | 0°R14 | 1°22 | 25°15 | 9° 8 | S 23 | |
| M24 | 14 11 29 | 4°43'39 | 12°40 | 4°15 | 23°49 | 10°42 | 16°51 | 12°55 | 26°26 | 19°42 | 24°53 | 0°13 | 1°19 | 25°22 | 9° 9 | M24 | |
| T 25 | 14 15 26 | 5°42'24 | 24°41 | 6°21 | 24°59 | 10°45 | 17° 5 | 12°58 | 26°26 | 19°42 | 24°54 | 0°12 | 1°16 | 25°29 | 9°11 | T 25 | |
| W26 | 14 19 22 | 6°41'06 | 6♎54 | 8°28 | 26° 9 | 10°48 | 17°19 | 13° 0 | 26°27 | 19°42 | 24°56 | 0°10 | 1°13 | 25°35 | 9°12 | W26 | |
| T 27 | 14 23 19 | 7°39'47 | 19°22 | 10°35 | 27°19 | 10°52 | 17°33 | 13° 3 | 26°27 | 19°42 | 24°57 | 0° 6 | 1°10 | 25°42 | 9°14 | T 27 | |
| F 28 | 14 27 15 | 8°38'25 | 2♌ 9 | 12°43 | 28°29 | 10°57 | 17°47 | 13° 5 | 26°27 | 19°42 | 24°59 | 0° 3 | 1° 7 | 25°49 | 9°15 | F 28 | |
| S 29 | 14 31 12 | 9°37'01 | 15°15 | 14°50 | 29°39 | 11° 3 | 18° 1 | 13° 7 | 26°27 | 19°42 | 25° 0 | 29♂59 | 1° 3 | 25°56 | 9°17 | S 29 | |
| S 30 | 14 35 8 | 10♂35'35 | 28♌41 | 16♂57 | 0♃49 | 11♎ 9 | 18♃15 | 13♎10 | 26°R27 | 19°D42 | 25♃ 1 | 29♂57 | 1♂ 0 | 26♌ 2 | 9♌19 | S 30 | |

Delta T = 18m56s

ASTRODIENST EPHEMERIS for the year 2580
geocentric

MAY 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|------------|--------|---------|-------|-------|-------|--------|--------|-------|-------|--------|--------|-------|-------|------|
| M 1 | 14 39 5 | 11♂34'08 | 12♂25 | 19♂4 | 1♂59 | 11♂16 | 18♂29 | 13♂12 | 26♂R27 | 19♂42 | 25♂3 | 29♂R56 | 0♂II57 | 26♂9 | 9♂21 | M 1 |
| T 2 | 14 43 2 | 12°32'38 | 26°25 | 21°10 | 3° 9 | 11°23 | 18°43 | 13°14 | 26♂27 | 19°42 | 25° 4 | 29°D55 | 0°54 | 26°16 | 9°23 | T 2 |
| W 3 | 14 46 58 | 13°31'07 | 10♂7 | 23°14 | 4°20 | 11°31 | 18°57 | 13°16 | 26°27 | 19°42 | 25° 5 | 29♂55 | 0°51 | 26°22 | 9°26 | W 3 |
| T 4 | 14 50 55 | 14°29'34 | 24°57 | 25°18 | 5°30 | 11°40 | 19°11 | 13°18 | 26°27 | 19°42 | 25° 7 | 29°56 | 0°47 | 26°29 | 9°28 | T 4 |
| F 5 | 14 54 51 | 15°28'00 | 9♂20 | 27°19 | 6°40 | 11°49 | 19°25 | 13°19 | 26°26 | 19°42 | 25° 8 | 29°57 | 0°44 | 26°36 | 9°30 | F 5 |
| S 6 | 14 58 48 | 16°26'23 | 23°42 | 29°18 | 7°51 | 11°59 | 19°39 | 13°21 | 26°26 | 19°42 | 25°10 | 29°58 | 0°41 | 26°42 | 9°33 | S 6 |
| S 7 | 15 2 44 | 17°24'46 | 7♂59 | 1♂II15 | 9° 2 | 12° 9 | 19°52 | 13°23 | 26°26 | 19°43 | 25°11 | 29°59 | 0°38 | 26°49 | 9°35 | S 7 |
| M 8 | 15 6 41 | 18°23'07 | 22°10 | 3° 9 | 10°12 | 12°20 | 20° 6 | 13°24 | 26°25 | 19°43 | 25°12 | 29°R59 | 0°35 | 26°56 | 9°38 | M 8 |
| T 9 | 15 10 37 | 19°21'26 | 6♂12 | 5° 0 | 11°23 | 12°31 | 20°20 | 13°25 | 26°25 | 19°43 | 25°14 | 29°59 | 0°32 | 27° 3 | 9°41 | T 9 |
| W10 | 15 14 34 | 20°19'44 | 20° 3 | 6°48 | 12°34 | 12°44 | 20°33 | 13°27 | 26°25 | 19°43 | 25°15 | 29°58 | 0°28 | 27° 9 | 9°44 | W10 |
| T 11 | 15 18 31 | 21°18'00 | 3♂42 | 8°33 | 13°44 | 12°56 | 20°47 | 13°28 | 26°24 | 19°44 | 25°16 | 29°57 | 0°25 | 27°16 | 9°47 | T 11 |
| F 12 | 15 22 27 | 22°16'15 | 17° 9 | 10°15 | 14°55 | 13° 9 | 21° 0 | 13°29 | 26°23 | 19°44 | 25°18 | 29°56 | 0°22 | 27°23 | 9°50 | F 12 |
| S 13 | 15 26 24 | 23°14'28 | 0♂22 | 11°52 | 16° 6 | 13°23 | 21°14 | 13°30 | 26°23 | 19°45 | 25°19 | 29°55 | 0°19 | 27°29 | 9°53 | S 13 |
| S 14 | 15 30 20 | 24°12'39 | 13°21 | 13°26 | 17°17 | 13°37 | 21°27 | 13°31 | 26°22 | 19°45 | 25°20 | 29°54 | 0°16 | 27°36 | 9°56 | S 14 |
| M15 | 15 34 17 | 25°10'49 | 26° 5 | 14°57 | 18°28 | 13°52 | 21°40 | 13°32 | 26°21 | 19°46 | 25°21 | 29°D54 | 0°13 | 27°43 | 9°59 | M15 |
| T 16 | 15 38 13 | 26° 8'58 | 8♂II36 | 16°23 | 19°39 | 14° 7 | 21°54 | 13°32 | 26°21 | 19°46 | 25°23 | 29°54 | 0° 9 | 27°49 | 10° 3 | T 16 |
| W17 | 15 42 10 | 27° 7'05 | 20°55 | 17°46 | 20°50 | 14°22 | 22° 7 | 13°33 | 26°20 | 19°47 | 25°24 | 29°54 | 0° 6 | 27°56 | 10° 6 | W17 |
| T 18 | 15 46 6 | 28° 5'10 | 3♂5 | 19° 4 | 22° 1 | 14°39 | 22°20 | 13°33 | 26°19 | 19°47 | 25°25 | 29°55 | 0° 3 | 28° 3 | 10°10 | T 18 |
| F 19 | 15 50 3 | 29° 3'13 | 15° 1 | 20°18 | 23°12 | 14°55 | 22°33 | 13°34 | 26°18 | 19°48 | 25°26 | 29°55 | 29♂59 | 28°10 | 10°13 | F 19 |
| S 20 | 15 54 0 | 0♂II 1'15 | 26°54 | 21°28 | 24°23 | 15°12 | 22°46 | 13°34 | 26°17 | 19°49 | 25°28 | 29°R55 | 29°57 | 28°16 | 10°17 | S 20 |
| S 21 | 15 57 56 | 0°59'14 | 8♂45 | 22°34 | 25°34 | 15°29 | 22°59 | 13°34 | 26°16 | 19°49 | 25°29 | 29°55 | 29°53 | 28°23 | 10°21 | S 21 |
| M22 | 16 1 53 | 1°57'12 | 20°39 | 23°35 | 26°45 | 15°47 | 23°12 | 13°34 | 26°15 | 19°50 | 25°30 | 29°55 | 29°50 | 28°30 | 10°25 | M22 |
| T 23 | 16 5 49 | 2°55'08 | 2♂39 | 24°33 | 27°57 | 16° 6 | 23°25 | 13°R34 | 26°14 | 19°51 | 25°31 | 29°D55 | 29°47 | 28°36 | 10°29 | T 23 |
| W24 | 16 9 46 | 3°53'03 | 14°51 | 25°25 | 29° 8 | 16°24 | 23°37 | 13°34 | 26°13 | 19°52 | 25°32 | 29°55 | 29°44 | 28°43 | 10°33 | W24 |
| T 25 | 16 13 42 | 4°50'55 | 27°18 | 26°13 | 0♂19 | 16°43 | 23°50 | 13°34 | 26°12 | 19°52 | 25°34 | 29°55 | 29°41 | 28°50 | 10°37 | T 25 |
| F 26 | 16 17 39 | 5°48'46 | 10♂4 | 26°57 | 1°31 | 17° 3 | 24° 3 | 13°34 | 26°10 | 19°53 | 25°35 | 29°55 | 29°38 | 28°56 | 10°41 | F 26 |
| S 27 | 16 21 35 | 6°46'35 | 23°13 | 27°36 | 2°42 | 17°23 | 24°15 | 13°33 | 26° 9 | 19°54 | 25°36 | 29°56 | 29°34 | 29° 3 | 10°45 | S 27 |
| S 28 | 16 25 32 | 7°44'23 | 6♂47 | 28°10 | 3°53 | 17°43 | 24°28 | 13°33 | 26° 8 | 19°55 | 25°37 | 29°57 | 29°31 | 29°10 | 10°50 | S 28 |
| M29 | 16 29 29 | 8°42'09 | 20°44 | 28°40 | 5° 5 | 18° 4 | 24°40 | 13°32 | 26° 6 | 19°56 | 25°38 | 29°57 | 29°28 | 29°17 | 10°54 | M29 |
| T 30 | 16 33 25 | 9°39'53 | 5♂2 | 29° 4 | 6°16 | 18°25 | 24°52 | 13°32 | 26° 5 | 19°57 | 25°39 | 29°R57 | 29°25 | 29°23 | 10°59 | T 30 |
| W31 | 16 37 22 | 10♂II37'37 | 19♂38 | 29♂II24 | 7♂28 | 18♂46 | 25♂5 | 13♂31 | 26♂4 | 19♂58 | 25♂40 | 29♂57 | 29♂22 | 29♂30 | 11♂3 | W31 |

Delta T = 18m57s

JUNE 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|------------|--------|---------|---------|-------|-------|--------|--------|-------|-------|--------|-------|-------|-------|------|
| T 1 | 16 41 18 | 11♂II35'19 | 4♂23 | 29♂II40 | 8♂39 | 19♂8 | 25♂17 | 13°R30 | 26°R 2 | 19♂59 | 25♂41 | 29°R56 | 29♂19 | 29♂37 | 11♂8 | T 1 |
| F 2 | 16 45 15 | 12°33'00 | 19°13 | 29°50 | 9°51 | 19°30 | 25°29 | 13°29 | 26♂1 | 20° 0 | 25°42 | 29♂54 | 29°15 | 29°43 | 11°13 | F 2 |
| S 3 | 16 49 11 | 13°30'40 | 3♂59 | 29°56 | 11° 2 | 19°52 | 25°41 | 13°28 | 25°59 | 20° 1 | 25°43 | 29°53 | 29°12 | 29°50 | 11°17 | S 3 |
| S 4 | 16 53 8 | 14°28'19 | 18°34 | 29°R56 | 12°14 | 20°15 | 25°53 | 13°27 | 25°58 | 20° 2 | 25°44 | 29°51 | 29° 9 | 29°57 | 11°22 | S 4 |
| M 5 | 16 57 5 | 15°25'57 | 2♂54 | 29°53 | 13°26 | 20°38 | 26° 5 | 13°26 | 25°56 | 20° 3 | 25°46 | 29°50 | 29° 6 | 0♂4 | 11°27 | M 5 |
| T 6 | 17 1 1 | 16°23'33 | 16°56 | 29°45 | 14°37 | 21° 1 | 26°16 | 13°24 | 25°54 | 20° 4 | 25°46 | 29°D50 | 29° 3 | 0°10 | 11°32 | T 6 |
| W 7 | 17 4 58 | 17°21'10 | 0♂39 | 29°32 | 15°49 | 21°24 | 26°28 | 13°23 | 25°53 | 20° 6 | 25°47 | 29°51 | 28°59 | 0°17 | 11°37 | W 7 |
| T 8 | 17 8 54 | 18°18'45 | 14° 4 | 29°16 | 17° 1 | 21°48 | 26°40 | 13°21 | 25°51 | 20° 7 | 25°48 | 29°52 | 28°56 | 0°24 | 11°42 | T 8 |
| F 9 | 17 12 51 | 19°16'19 | 27°11 | 28°56 | 18°12 | 22°13 | 26°51 | 13°20 | 25°49 | 20° 8 | 25°49 | 29°53 | 28°53 | 0°30 | 11°48 | F 9 |
| S 10 | 17 16 47 | 20°13'53 | 10♂2 | 28°33 | 19°24 | 22°37 | 27° 3 | 13°18 | 25°47 | 20° 9 | 25°50 | 29°54 | 28°50 | 0°37 | 11°53 | S 10 |
| S 11 | 17 20 44 | 21°11'25 | 22°40 | 28° 6 | 20°36 | 23° 2 | 27°14 | 13°16 | 25°46 | 20°11 | 25°51 | 29°55 | 28°47 | 0°44 | 11°58 | S 11 |
| M12 | 17 24 40 | 22° 8'57 | 5♂II 6 | 27°38 | 21°48 | 23°27 | 27°25 | 13°14 | 25°44 | 20°12 | 25°52 | 29°R55 | 28°44 | 0°50 | 12° 3 | M12 |
| T 13 | 17 28 37 | 23° 6'28 | 17°22 | 27° 7 | 23° 0 | 23°52 | 27°36 | 13°12 | 25°42 | 20°13 | 25°53 | 29°54 | 28°40 | 0°57 | 12° 9 | T 13 |
| W14 | 17 32 34 | 24° 3'58 | 29°29 | 26°35 | 24°12 | 24°18 | 27°47 | 13°10 | 25°40 | 20°15 | 25°54 | 29°52 | 28°37 | 1° 4 | 12°14 | W14 |
| T 15 | 17 36 30 | 25° 1'28 | 11♂29 | 26° 2 | 25°24 | 24°44 | 27°58 | 13° 8 | 25°38 | 20°16 | 25°55 | 29°49 | 28°34 | 1°11 | 12°20 | T 15 |
| F 16 | 17 40 27 | 25°58'56 | 23°24 | 25°28 | 26°36 | 25°10 | 28° 9 | 13° 6 | 25°36 | 20°18 | 25°56 | 29°44 | 28°31 | 1°17 | 12°26 | F 16 |
| S 17 | 17 44 23 | 26°56'23 | 5♂15 | 24°55 | 27°47 | 25°36 | 28°20 | 13° 4 | 25°34 | 20°19 | 25°56 | 29°40 | 28°28 | 1°24 | 12°31 | S 17 |
| S 18 | 17 48 20 | 27°53'49 | 17° 6 | 24°22 | 28°59 | 26° 3 | 28°30 | 13° 1 | 25°32 | 20°21 | 25°57 | 29°35 | 28°25 | 1°31 | 12°37 | S 18 |
| M19 | 17 52 16 | 28°51'14 | 29° 0 | 23°51 | 0♂II11 | 26°30 | 28°41 | 12°59 | 25°30 | 20°22 | 25°58 | 29°31 | 28°21 | 1°37 | 12°43 | M19 |
| T 20 | 17 56 13 | 29°48'38 | 10♂59 | 23°22 | 1°24 | 26°57 | 28°51 | 12°56 | 25°28 | 20°24 | 25°59 | 29°29 | 28°18 | 1°44 | 12°49 | T 20 |
| W21 | 18 0 9 | 0♂46'01 | 23° 9 | 22°55 | 2°36 | 27°25 | 29° 1 | 12°54 | 25°26 | 20°25 | 25°59 | 29°27 | 28°15 | 1°51 | 12°54 | W21 |
| T 22 | 18 4 6 | 1°43'23 | 5♂33 | 22°31 | 3°48 | 27°52 | 29°12 | 12°51 | 25°24 | 20°27 | 26° 0 | 29°D27 | 28°12 | 1°58 | 13° 0 | T 22 |
| F 23 | 18 8 3 | 2°40'44 | 18°15 | 22°10 | 5° 0 | 28°20 | 29°22 | 12°48 | 25°21 | 20°28 | 26° 1 | 29°28 | 28° 9 | 2° 4 | 13° 6 | F 23 |
| S 24 | 18 11 59 | 3°38'04 | 1♂21 | 21°52 | 6°12 | 28°48 | 29°32 | 12°45 | 25°19 | 20°30 | 26° 1 | 29°29 | 28° 5 | 2°11 | 13°12 | S 24 |
| S 25 | 18 15 56 | 4°35'23 | 14°52 | 21°39 | 7°24 | 29°16 | 29°42 | 12°42 | 25°17 | 20°32 | 26° 2 | 29°31 | 28° 2 | 2°18 | 13°18 | S 25 |
| M26 | 18 19 52 | 5°32'41 | 28°50 | 21°29 | 8°36 | 29°45 | 29°51 | 12°39 | 25°15 | 20°33 | 26° 3 | 29°R31 | 27°59 | 2°24 | 13°25 | M26 |
| T 27 | 18 23 49 | 6°29'59 | 13♂15 | 21°24 | 9°48 | 0♂14 | 0♂1 | 12°36 | 25°13 | 20°35 | 26° 3 | 29°31 | 27°56 | 2°31 | 13°31 | T 27 |
| W28 | 18 27 45 | 7°27'16 | 28° 3 | 21°D24 | 11° 1 | 0°43 | 0°10 | 12°33 | 25°10 | 20°37 | 26° 4 | 29°28 | 27°53 | 2°38 | 13°37 | W28 |
| T 29 | 18 31 42 | 8°24'33 | 13♂6 | 21°28 | 12°13 | 1°12 | 0°20 | 12°30 | 25° 8 | 20°38 | 26° 4 | 29°24 | 27°50 | 2°45 | 13°43 | T 29 |
| F 30 | 18 35 38 | 9°21'49 | 28♂17 | 21♂II36 | 13♂II25 | 1♂41 | 0♂29 | 12°27 | 25♂6 | 20♂40 | 26♂5 | 29♂19 | 27♂46 | 2♂51 | 13♂50 | F 30 |

Delta T = 18m57s

ASTRODIENST EPHEMERIS for the year 2580
geocentric

JULY 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|------|--------|--------|-------|--------|--------|-------|------|-------|------|---|---|---|---|---|---|-----|
| S 1 | 18 39 35 | 10♅19'04 | 13♋24 | 21♊50 | 14♋38 | 2♊11 | 0♃38 | 12°R23 | 25°R 3 | 20♌42 | 26♍6 | 29°R13 | 27♋43 | 2♌58 | 13♍56 | S 1 | | | | | | | |
| S 2 | 18 43 32 | 11°16'20 | 28°19 | 22° 8 | 15°50 | 2°40 | 0°47 | 12♋20 | 25♄1 | 20°44 | 26° 6 | 29♄8 | 27°40 | 3° 5 | 14° 2 | S 2 | | | | | | | |
| M 3 | 18 47 28 | 12°13'35 | 12♋54 | 22°30 | 17° 2 | 3°10 | 0°56 | 12°16 | 24°59 | 20°46 | 26° 7 | 29° 3 | 27°37 | 3°11 | 14° 9 | M 3 | | | | | | | |
| T 4 | 18 51 25 | 13°10'50 | 27° 5 | 22°58 | 18°15 | 3°40 | 1° 5 | 12°13 | 24°56 | 20°47 | 26° 7 | 29° 0 | 27°34 | 3°18 | 14°15 | T 4 | | | | | | | |
| W 5 | 18 55 21 | 14° 8'05 | 10♍50 | 23°30 | 19°27 | 4°11 | 1°13 | 12° 9 | 24°54 | 20°49 | 26° 7 | 28°D59 | 27°31 | 3°25 | 14°22 | W 5 | | | | | | | |
| T 6 | 18 59 18 | 15° 5'20 | 24° 9 | 24° 6 | 20°40 | 4°41 | 1°22 | 12° 6 | 24°52 | 20°51 | 26° 8 | 28°59 | 27°27 | 3°32 | 14°28 | T 6 | | | | | | | |
| F 7 | 19 3 14 | 16° 2'35 | 7♄7 | 24°47 | 21°52 | 5°12 | 1°30 | 12° 2 | 24°49 | 20°53 | 26° 8 | 29° 0 | 27°24 | 3°38 | 14°35 | F 7 | | | | | | | |
| S 8 | 19 7 11 | 16°59'50 | 19°46 | 25°33 | 23° 5 | 5°43 | 1°38 | 11°58 | 24°47 | 20°55 | 26° 9 | 29° 1 | 27°21 | 3°45 | 14°42 | S 8 | | | | | | | |
| S 9 | 19 11 7 | 17°57'05 | 2♊10 | 26°23 | 24°17 | 6°14 | 1°46 | 11°54 | 24°45 | 20°57 | 26° 9 | 29°R 2 | 27°18 | 3°52 | 14°48 | S 9 | | | | | | | |
| M10 | 19 15 4 | 18°54'20 | 14°22 | 27°17 | 25°30 | 6°45 | 1°54 | 11°50 | 24°42 | 20°59 | 26° 9 | 29° 0 | 27°15 | 3°58 | 14°55 | M10 | | | | | | | |
| T 11 | 19 19 1 | 19°51'35 | 26°26 | 28°16 | 26°42 | 7°16 | 2° 2 | 11°47 | 24°40 | 21° 1 | 26°10 | 28°57 | 27°11 | 4° 5 | 15° 2 | T 11 | | | | | | | |
| W12 | 19 22 57 | 20°48'51 | 8♅24 | 29°19 | 27°55 | 7°48 | 2°10 | 11°43 | 24°37 | 21° 3 | 26°10 | 28°51 | 27° 8 | 4°12 | 15° 8 | W12 | | | | | | | |
| T 13 | 19 26 54 | 21°46'06 | 20°18 | 0♅26 | 29° 8 | 8°20 | 2°17 | 11°39 | 24°35 | 21° 5 | 26°10 | 28°43 | 27° 5 | 4°19 | 15°15 | T 13 | | | | | | | |
| F 14 | 19 30 50 | 22°43'21 | 2♌9 | 1°37 | 0♅20 | 8°51 | 2°25 | 11°35 | 24°32 | 21° 7 | 26°11 | 28°34 | 27° 2 | 4°25 | 15°22 | F 14 | | | | | | | |
| S 15 | 19 34 47 | 23°40'36 | 14° 1 | 2°53 | 1°33 | 9°23 | 2°32 | 11°30 | 24°30 | 21° 9 | 26°11 | 28°23 | 26°59 | 4°32 | 15°29 | S 15 | | | | | | | |
| S 16 | 19 38 43 | 24°37'51 | 25°53 | 4°12 | 2°46 | 9°56 | 2°39 | 11°26 | 24°28 | 21°11 | 26°11 | 28°13 | 26°56 | 4°39 | 15°36 | S 16 | | | | | | | |
| M17 | 19 42 40 | 25°35'06 | 7♎48 | 5°35 | 3°59 | 10°28 | 2°46 | 11°22 | 24°25 | 21°13 | 26°11 | 28° 4 | 26°52 | 4°45 | 15°43 | M17 | | | | | | | |
| T 18 | 19 46 37 | 26°32'20 | 19°50 | 7° 3 | 5°11 | 11° 1 | 2°53 | 11°18 | 24°23 | 21°15 | 26°11 | 27°56 | 26°49 | 4°52 | 15°50 | T 18 | | | | | | | |
| W19 | 19 50 33 | 27°29'35 | 2♌0 | 8°34 | 6°24 | 11°33 | 2°59 | 11°14 | 24°20 | 21°17 | 26°12 | 27°51 | 26°46 | 4°59 | 15°57 | W19 | | | | | | | |
| T 20 | 19 54 30 | 28°26'49 | 14°22 | 10° 8 | 7°37 | 12° 6 | 3° 6 | 11° 9 | 24°18 | 21°19 | 26°12 | 27°48 | 26°43 | 5° 5 | 16° 4 | T 20 | | | | | | | |
| F 21 | 19 58 26 | 29°24'04 | 27° 2 | 11°47 | 8°50 | 12°39 | 3°12 | 11° 5 | 24°15 | 21°21 | 26°12 | 27°D47 | 26°40 | 5°12 | 16°11 | F 21 | | | | | | | |
| S 22 | 20 2 23 | 0♌21'18 | 10♌1 | 13°29 | 10° 3 | 13°12 | 3°18 | 11° 1 | 24°13 | 21°23 | 26°12 | 27°47 | 26°36 | 5°19 | 16°18 | S 22 | | | | | | | |
| S 23 | 20 6 19 | 1°18'33 | 23°26 | 15°14 | 11°16 | 13°46 | 3°24 | 10°57 | 24°11 | 21°25 | 26°12 | 27°R48 | 26°33 | 5°26 | 16°25 | S 23 | | | | | | | |
| M24 | 20 10 16 | 2°15'47 | 7♁17 | 17° 3 | 12°29 | 14°19 | 3°30 | 10°52 | 24° 8 | 21°27 | 26°12 | 27°47 | 26°30 | 5°32 | 16°32 | M24 | | | | | | | |
| T 25 | 20 14 12 | 3°13'02 | 21°37 | 18°54 | 13°42 | 14°53 | 3°35 | 10°48 | 24° 6 | 21°29 | 26°12 | 27°45 | 26°27 | 5°39 | 16°39 | T 25 | | | | | | | |
| W26 | 20 18 9 | 4°10'16 | 6♄23 | 20°49 | 14°55 | 15°26 | 3°41 | 10°43 | 24° 4 | 21°32 | 26°R12 | 27°41 | 26°24 | 5°46 | 16°46 | W26 | | | | | | | |
| T 27 | 20 22 6 | 5° 7'31 | 21°29 | 22°46 | 16° 8 | 16° 0 | 3°46 | 10°39 | 24° 1 | 21°34 | 26°12 | 27°34 | 26°21 | 5°52 | 16°53 | T 27 | | | | | | | |
| F 28 | 20 26 2 | 6° 4'46 | 6♁47 | 24°45 | 17°21 | 16°34 | 3°51 | 10°35 | 23°59 | 21°36 | 26°12 | 27°25 | 26°17 | 5°59 | 17° 0 | F 28 | | | | | | | |
| S 29 | 20 29 59 | 7° 2'02 | 22° 6 | 26°47 | 18°34 | 17° 8 | 3°56 | 10°30 | 23°56 | 21°38 | 26°12 | 27°16 | 26°14 | 6° 6 | 17° 7 | S 29 | | | | | | | |
| S 30 | 20 33 55 | 7°59'18 | 7♋14 | 28°50 | 19°47 | 17°43 | 4° 1 | 10°26 | 23°54 | 21°40 | 26°12 | 27° 6 | 26°11 | 6°13 | 17°15 | S 30 | | | | | | | |
| M31 | 20 37 52 | 8°05'35 | 22♋1 | 0♌55 | 21♅0 | 18♁17 | 4♃6 | 10°21 | 23°52 | 21♌42 | 26°R12 | 26♄58 | 26♄8 | 6°19 | 17°22 | M31 | | | | | | | |

Delta T = 18m57s

AUGUST 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|------|-------|------|---|---|---|---|---|---|-----|
| T 1 | 20 41 48 | 9♌53'52 | 6♍23 | 3♌0 | 22♅13 | 18♁52 | 4♃10 | 10°R17 | 23°R50 | 21♌44 | 26°R12 | 26°R52 | 26♄5 | 6♌26 | 17♌29 | T 1 | | | | | | | |
| W 2 | 20 45 45 | 10°51'10 | 20°14 | 5° 7 | 23°27 | 19°26 | 4°14 | 10°12 | 23°47 | 21°47 | 26°R12 | 26♄48 | 26° 2 | 6°33 | 17°36 | W 2 | | | | | | | |
| T 3 | 20 49 41 | 11°48'29 | 3♃37 | 7°14 | 24°40 | 20° 1 | 4°19 | 10° 8 | 23°45 | 21°49 | 26°11 | 26°47 | 25°58 | 6°40 | 17°43 | T 3 | | | | | | | |
| F 4 | 20 53 38 | 12°45'49 | 16°34 | 9°21 | 25°53 | 20°36 | 4°22 | 10° 4 | 23°43 | 21°51 | 26°11 | 26°D47 | 25°55 | 6°46 | 17°51 | F 4 | | | | | | | |
| S 5 | 20 57 35 | 13°43'10 | 29°10 | 11°28 | 27° 6 | 21°11 | 4°26 | 9°59 | 23°40 | 21°53 | 26°11 | 26°R47 | 25°52 | 6°53 | 17°58 | S 5 | | | | | | | |
| S 6 | 21 1 31 | 14°40'32 | 11♊28 | 13°35 | 28°20 | 21°46 | 4°30 | 9°55 | 23°38 | 21°55 | 26°11 | 26°46 | 25°49 | 7° 0 | 18° 5 | S 6 | | | | | | | |
| M 7 | 21 5 28 | 15°37'55 | 23°33 | 15°41 | 29°33 | 22°21 | 4°33 | 9°50 | 23°36 | 21°58 | 26°10 | 26°43 | 25°46 | 7° 6 | 18°12 | M 7 | | | | | | | |
| T 8 | 21 9 24 | 16°35'19 | 5♅30 | 17°46 | 0♌47 | 22°57 | 4°36 | 9°46 | 23°34 | 22° 0 | 26°10 | 26°38 | 25°42 | 7°13 | 18°20 | T 8 | | | | | | | |
| W 9 | 21 13 21 | 17°32'44 | 17°23 | 19°50 | 2° 0 | 23°32 | 4°39 | 9°42 | 23°32 | 22° 2 | 26°10 | 26°30 | 25°39 | 7°20 | 18°27 | W 9 | | | | | | | |
| T 10 | 21 17 17 | 18°30'10 | 29°13 | 21°54 | 3°13 | 24° 8 | 4°42 | 9°37 | 23°30 | 22° 4 | 26°10 | 26°20 | 25°36 | 7°27 | 18°34 | T 10 | | | | | | | |
| F 11 | 21 21 14 | 19°27'36 | 11♌5 | 23°56 | 4°27 | 24°44 | 4°45 | 9°33 | 23°28 | 22° 7 | 26° 9 | 26° 7 | 25°33 | 7°33 | 18°41 | F 11 | | | | | | | |
| S 12 | 21 25 10 | 20°25'04 | 22°58 | 25°56 | 5°41 | 25°20 | 4°47 | 9°28 | 23°25 | 22° 9 | 26° 9 | 25°53 | 25°30 | 7°40 | 18°49 | S 12 | | | | | | | |
| S 13 | 21 29 7 | 21°22'32 | 4♎55 | 27°56 | 6°54 | 25°56 | 4°49 | 9°24 | 23°23 | 22°11 | 26° 9 | 25°39 | 25°27 | 7°47 | 18°56 | S 13 | | | | | | | |
| M14 | 21 33 4 | 22°20'01 | 16°56 | 29°53 | 8° 8 | 26°32 | 4°51 | 9°20 | 23°21 | 22°13 | 26° 8 | 25°26 | 25°23 | 7°53 | 19° 3 | M14 | | | | | | | |
| T 15 | 21 37 0 | 23°17'31 | 29° 4 | 1♎50 | 9°21 | 27° 8 | 4°53 | 9°16 | 23°19 | 22°15 | 26° 8 | 25°16 | 25°20 | 8° 0 | 19°11 | T 15 | | | | | | | |
| W16 | 21 40 57 | 24°15'02 | 11♁21 | 3°45 | 10°35 | 27°45 | 4°55 | 9°11 | 23°17 | 22°18 | 26° 7 | 25° 8 | 25°17 | 8° 7 | 19°18 | W16 | | | | | | | |
| T 17 | 21 44 53 | 25°12'34 | 23°48 | 5°38 | 11°49 | 28°21 | 4°56 | 9° 7 | 23°15 | 22°20 | 26° 7 | 25° 3 | 25°14 | 8°14 | 19°25 | T 17 | | | | | | | |
| F 18 | 21 48 50 | 26°10'06 | 6♎29 | 7°30 | 13° 2 | 28°58 | 4°57 | 9° 3 | 23°14 | 22°22 | 26° 6 | 25° 1 | 25°11 | 8°20 | 19°32 | F 18 | | | | | | | |
| S 19 | 21 52 46 | 27° 7'39 | 19°27 | 9°20 | 14°16 | 29°35 | 4°58 | 8°59 | 23°12 | 22°24 | 26° 6 | 25° 0 | 25° 8 | 8°27 | 19°40 | S 19 | | | | | | | |
| S 20 | 21 56 43 | 28° 5'13 | 2♁47 | 11° 9 | 15°30 | 0♌11 | 4°59 | 8°55 | 23°10 | 22°27 | 26° 5 | 25° 0 | 25° 4 | 8°34 | 19°47 | S 20 | | | | | | | |
| M21 | 22 0 39 | 29° 2'48 | 16°30 | 12°56 | 16°44 | 0°48 | 5° 0 | 8°51 | 23° 8 | 22°29 | 26° 5 | 24°59 | 25° 1 | 8°40 | 19°54 | M21 | | | | | | | |
| T 22 | 22 4 36 | 0♎0'24 | 0♄38 | 14°42 | 17°57 | 1°25 | 5° 0 | 8°47 | 23° 6 | 22°31 | 26° 4 | 24°57 | 24°58 | 8°47 | 20° 1 | T 22 | | | | | | | |
| W23 | 22 8 33 | 0°58'01 | 15°12 | 16°26 | 19°11 | 2° 3 | 5° 1 | 8°43 | 23° 4 | 22°33 | 26° 4 | 24°52 | 24°55 | 8°54 | 20° 9 | W23 | | | | | | | |
| T 24 | 22 12 29 | 1°55'39 | 0♁7 | 18° 9 | 20°25 | 2°40 | 5°R 1 | 8°39 | 23° 3 | 22°35 | 26° 3 | 24°45 | 24°52 | 9° 1 | 20°16 | T 24 | | | | | | | |
| F 25 | 22 16 26 | 2°53'17 | 15°16 | 19°50 | 21°39 | 3°17 | 5° 1 | 8°35 | 23° 1 | 22°38 | 26° 3 | 24°35 | 24°48 | 9° 7 | 20°23 | F 25 | | | | | | | |
| S 26 | 22 20 22 | 3°50'57 | 0♋29 | 21°30 | 22°53 | 3°55 | 5° 0 | 8°31 | 22°59 | 22°40 | 26° 2 | 24°25 | 24°45 | 9°14 | 20°30 | S 26 | | | | | | | |
| S 27 | 22 24 19 | 4°48'38 | 15°36 | 23° 9 | 24° 7 | 4°32 | 5° 0 | 8°28 | 22°58 | 22°42 | 26° 1 | 24°14 | 24°42 | 9°21 | 20°37 | S 27 | | | | | | | |
| M28 | 22 28 15 | 5°46'20 | 0♍27 | 24°46 | 25°21 | 5°10 | 4°59 | 8°24 | 22°56 | 22°44 | 26° 1 | 24° 5 | 24°39 | 9°27 | 20°44 | M28 | | | | | | | |
| T 29 | 22 32 12 | 6°44'04 | 14°53 | 26°21 | 26°35 | 5°48 | 4°58 | 8°20 | 22°55 | 22°46 | 26° 0 | 23°58 | 24°36 | 9°34 | 20°52 | T 29 | | | | | | | |
| W30 | 22 36 8 | 7°41'49 | 28°51 | 27°55 | 27°49 | 6°26 | 4°57 | 8°17 | 22°53 | 22°48 | 25°59 | 23°54 | 24°33 | 9°41 | 20°59 | W30 | | | | | | | |
| T 31 | 22 40 5 | 8♎39'36 | 12♄20 | 29♎28 | 29♌3 | 7♎4 | 4♄56 | 8°13 | 22°52 | 22°51 | 25°R58 | 23♄51 | 24♄29 | 9°48 | 21♌6 | T 31 | | | | | | | |

Delta T = 18m57s

ASTRODIENST EPHEMERIS for the year 2580
geocentric

SEPTEMBER 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|-----|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-----|-----|
| F 1 | 22 44 1 | 9♎37'25 | 25♌21 | 0♉59 | 0♎17 | 7♎42 | 4°R54 | 8°R10 | 22°R50 | 22♌53 | 25°R58 | 23°D51 | 24♌26 | 9♏54 | 21♏13 | F 1 | |
| S 2 | 22 47 58 | 10°35'15 | 7♎58 | 2°29 | 1°31 | 8°20 | 4♌52 | 8♌6 | 22♌49 | 22°55 | 25°Y57 | 23°R51 | 24°23 | 10° 1 | 21°20 | S 2 | |
| S 3 | 22 51 55 | 11°33'07 | 20°16 | 3°57 | 2°45 | 8°58 | 4°50 | 8° 3 | 22°48 | 22°57 | 25°56 | 23♌51 | 24°20 | 10° 8 | 21°27 | S 3 | |
| M 4 | 22 55 51 | 12°31'01 | 2♌21 | 5°24 | 3°59 | 9°37 | 4°48 | 8° 0 | 22°46 | 22°59 | 25°55 | 23°49 | 24°17 | 10°14 | 21°34 | M 4 | |
| T 5 | 22 59 48 | 13°28'56 | 14°16 | 6°50 | 5°13 | 10°15 | 4°46 | 7°56 | 22°45 | 23° 1 | 25°55 | 23°45 | 24°14 | 10°21 | 21°41 | T 5 | |
| W 6 | 23 3 44 | 14°26'54 | 26° 8 | 8°14 | 6°28 | 10°54 | 4°43 | 7°53 | 22°44 | 23° 3 | 25°54 | 23°39 | 24°10 | 10°28 | 21°48 | W 6 | |
| T 7 | 23 7 41 | 15°24'53 | 7♏58 | 9°36 | 7°42 | 11°33 | 4°41 | 7°50 | 22°43 | 23° 6 | 25°53 | 23°29 | 24° 7 | 10°35 | 21°55 | T 7 | |
| F 8 | 23 11 37 | 16°22'53 | 19°52 | 10°57 | 8°56 | 12°11 | 4°38 | 7°47 | 22°42 | 23° 8 | 25°52 | 23°18 | 24° 4 | 10°41 | 22° 2 | F 8 | |
| S 9 | 23 15 34 | 17°20'55 | 1♎49 | 12°16 | 10°11 | 12°50 | 4°35 | 7°44 | 22°40 | 23°10 | 25°51 | 23° 6 | 24° 1 | 10°48 | 22° 9 | S 9 | |
| S10 | 23 19 30 | 18°18'59 | 13°54 | 13°34 | 11°25 | 13°29 | 4°31 | 7°42 | 22°39 | 23°12 | 25°51 | 22°54 | 23°58 | 10°55 | 22°16 | S10 | |
| M11 | 23 23 27 | 19°17'05 | 26° 5 | 14°50 | 12°39 | 14° 9 | 4°28 | 7°39 | 22°38 | 23°14 | 25°50 | 22°43 | 23°54 | 11° 1 | 22°23 | M11 | |
| T12 | 23 27 24 | 20°15'12 | 8♌25 | 16° 4 | 13°54 | 14°48 | 4°24 | 7°36 | 22°37 | 23°16 | 25°49 | 22°34 | 23°51 | 11° 8 | 22°29 | T12 | |
| W13 | 23 31 20 | 21°13'20 | 20°55 | 17°17 | 15° 8 | 15°27 | 4°20 | 7°33 | 22°37 | 23°18 | 25°48 | 22°27 | 23°48 | 11°15 | 22°36 | W13 | |
| T14 | 23 35 17 | 22°11'31 | 3♎35 | 18°27 | 16°22 | 16° 7 | 4°16 | 7°31 | 22°36 | 23°20 | 25°47 | 22°23 | 23°45 | 11°22 | 22°43 | T14 | |
| F15 | 23 39 13 | 23° 9'42 | 16°26 | 19°36 | 17°37 | 16°46 | 4°12 | 7°29 | 22°35 | 23°22 | 25°46 | 22°D21 | 23°42 | 11°28 | 22°50 | F15 | |
| S16 | 23 43 10 | 24° 7'56 | 29°32 | 20°43 | 18°51 | 17°26 | 4° 8 | 7°26 | 22°34 | 23°24 | 25°45 | 22°21 | 23°39 | 11°35 | 22°56 | S16 | |
| S17 | 23 47 6 | 25° 6'10 | 12♌54 | 21°47 | 20° 6 | 18° 5 | 4° 3 | 7°24 | 22°33 | 23°26 | 25°44 | 22°22 | 23°35 | 11°42 | 23° 3 | S17 | |
| M18 | 23 51 3 | 26° 4'27 | 26°34 | 22°49 | 21°20 | 18°45 | 3°59 | 7°22 | 22°33 | 23°28 | 25°43 | 22°R22 | 23°32 | 11°49 | 23°10 | M18 | |
| T19 | 23 54 59 | 27° 2'44 | 10♌34 | 23°49 | 22°35 | 19°25 | 3°54 | 7°20 | 22°32 | 23°30 | 25°42 | 22°21 | 23°29 | 11°55 | 23°16 | T19 | |
| W20 | 23 58 56 | 28° 1'04 | 24°53 | 24°46 | 23°49 | 20° 5 | 3°49 | 7°18 | 22°32 | 23°32 | 25°41 | 22°19 | 23°26 | 12° 2 | 23°23 | W20 | |
| T21 | 0 2 53 | 28°59'24 | 9♌29 | 25°40 | 25° 4 | 20°45 | 3°43 | 7°16 | 22°31 | 23°33 | 25°40 | 22°14 | 23°23 | 12° 9 | 23°29 | T21 | |
| F22 | 0 6 49 | 29°57'46 | 24°17 | 26°31 | 26°18 | 21°25 | 3°38 | 7°14 | 22°31 | 23°35 | 25°39 | 22° 7 | 23°20 | 12°15 | 23°36 | F22 | |
| S23 | 0 10 46 | 0♉56'10 | 9♎11 | 27°19 | 27°33 | 22° 5 | 3°32 | 7°12 | 22°30 | 23°37 | 25°38 | 21°59 | 23°16 | 12°22 | 23°42 | S23 | |
| S24 | 0 14 42 | 1°54'35 | 24° 1 | 28° 4 | 28°47 | 22°46 | 3°27 | 7°10 | 22°30 | 23°39 | 25°37 | 21°52 | 23°13 | 12°29 | 23°48 | S24 | |
| M25 | 0 18 39 | 2°53'03 | 8♎40 | 28°44 | 0♉ 2 | 23°26 | 3°21 | 7° 9 | 22°30 | 23°41 | 25°36 | 21°45 | 23°10 | 12°36 | 23°55 | M25 | |
| T26 | 0 22 35 | 3°51'32 | 22°59 | 29°21 | 1°17 | 24° 7 | 3°15 | 7° 7 | 22°29 | 23°43 | 25°35 | 21°40 | 23° 7 | 12°42 | 24° 1 | T26 | |
| W27 | 0 26 32 | 4°50'03 | 6♌55 | 29°54 | 2°31 | 24°47 | 3° 9 | 7° 6 | 22°29 | 23°44 | 25°34 | 21°37 | 23° 4 | 12°49 | 24° 7 | W27 | |
| T28 | 0 30 28 | 5°48'36 | 20°25 | 0♎22 | 3°46 | 25°28 | 3° 2 | 7° 5 | 22°29 | 23°46 | 25°33 | 21°D36 | 23° 0 | 12°56 | 24°13 | T28 | |
| F29 | 0 34 25 | 6°47'11 | 3♎29 | 0°45 | 5° 0 | 26° 9 | 2°56 | 7° 4 | 22°29 | 23°48 | 25°32 | 21°36 | 22°57 | 13° 2 | 24°19 | F29 | |
| S30 | 0 38 22 | 7♌45'49 | 16♎10 | 1♎ 2 | 6♌15 | 26♎50 | 2♌49 | 7♌ 2 | 22♌29 | 23♏50 | 25°Y31 | 21♌37 | 22♌54 | 13♏ 9 | 24♏26 | S30 | |

Delta T = 18m58s

OCTOBER 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|-----|---------|----------|-------|--------|-------|-------|--------|-------|--------|-------|--------|--------|-------|-------|-------|-----|-----|
| S 1 | 0 42 18 | 8♌44'28 | 28♎31 | 1♎14 | 7♌30 | 27♎31 | 2°R43 | 7°R 1 | 22°D29 | 23♏51 | 25°R30 | 21♌39 | 22♌51 | 13♏16 | 24♏32 | S 1 | |
| M 2 | 0 46 15 | 9°43'10 | 10♌38 | 1°R20 | 8°45 | 28°12 | 2♌36 | 7♌ 0 | 22♌29 | 23°53 | 25°Y28 | 21°R39 | 22°48 | 13°23 | 24°38 | M 2 | |
| T 3 | 0 50 11 | 10°41'54 | 22°36 | 1°19 | 9°59 | 28°53 | 2°29 | 7° 0 | 22°29 | 23°55 | 25°27 | 21°38 | 22°45 | 13°29 | 24°43 | T 3 | |
| W 4 | 0 54 8 | 11°40'41 | 4♏28 | 1°12 | 11°14 | 29°34 | 2°22 | 6°59 | 22°29 | 23°56 | 25°26 | 21°36 | 22°41 | 13°36 | 24°49 | W 4 | |
| T 5 | 0 58 4 | 12°39'29 | 16°20 | 0°57 | 12°29 | 0♌15 | 2°15 | 6°58 | 22°29 | 23°58 | 25°25 | 21°32 | 22°38 | 13°43 | 24°55 | T 5 | |
| F 6 | 1 2 1 | 13°38'19 | 28°16 | 0°35 | 13°44 | 0°57 | 2° 8 | 6°58 | 22°29 | 24° 0 | 25°24 | 21°26 | 22°35 | 13°50 | 25° 1 | F 6 | |
| S 7 | 1 5 57 | 14°37'12 | 10♎18 | 0° 6 | 14°58 | 1°38 | 2° 0 | 6°58 | 22°30 | 24° 1 | 25°23 | 21°19 | 22°32 | 13°56 | 25° 7 | S 7 | |
| S 8 | 1 9 54 | 15°36'07 | 22°30 | 29♌29 | 16°13 | 2°20 | 1°53 | 6°57 | 22°30 | 24° 3 | 25°22 | 21°13 | 22°29 | 14° 3 | 25°12 | S 8 | |
| M 9 | 1 13 51 | 16°35'04 | 4♌54 | 28°45 | 17°28 | 3° 1 | 1°45 | 6°57 | 22°30 | 24° 4 | 25°21 | 21° 7 | 22°25 | 14°10 | 25°18 | M 9 | |
| T10 | 1 17 47 | 17°34'03 | 17°29 | 27°54 | 18°43 | 3°43 | 1°38 | 6°57 | 22°31 | 24° 6 | 25°19 | 21° 2 | 22°22 | 14°16 | 25°23 | T10 | |
| W11 | 1 21 44 | 18°33'04 | 0♎16 | 26°56 | 19°58 | 4°25 | 1°30 | 6°D57 | 22°31 | 24° 7 | 25°18 | 20°58 | 22°19 | 14°23 | 25°29 | W11 | |
| T12 | 1 25 40 | 19°32'06 | 13°16 | 25°54 | 21°13 | 5° 7 | 1°22 | 6°57 | 22°32 | 24° 9 | 25°17 | 20°57 | 22°16 | 14°30 | 25°34 | T12 | |
| F13 | 1 29 37 | 20°31'11 | 26°28 | 24°47 | 22°28 | 5°49 | 1°14 | 6°57 | 22°32 | 24°10 | 25°16 | 20°D56 | 22°13 | 14°37 | 25°40 | F13 | |
| S14 | 1 33 33 | 21°30'18 | 9♌52 | 23°38 | 23°42 | 6°31 | 1° 7 | 6°57 | 22°33 | 24°11 | 25°15 | 20°57 | 22°10 | 14°43 | 25°45 | S14 | |
| S15 | 1 37 30 | 22°29'27 | 23°29 | 22°28 | 24°57 | 7°13 | 0°59 | 6°58 | 22°34 | 24°13 | 25°14 | 20°59 | 22° 6 | 14°50 | 25°50 | S15 | |
| M16 | 1 41 26 | 23°28'37 | 7♌17 | 21°19 | 26°12 | 7°55 | 0°51 | 6°58 | 22°35 | 24°14 | 25°13 | 21° 0 | 22° 3 | 14°57 | 25°55 | M16 | |
| T17 | 1 45 23 | 24°27'49 | 21°16 | 20°13 | 27°27 | 8°37 | 0°43 | 6°59 | 22°35 | 24°15 | 25°11 | 21°R 1 | 22° 0 | 15° 3 | 26° 0 | T17 | |
| W18 | 1 49 20 | 25°27'03 | 5♌27 | 19°12 | 28°42 | 9°20 | 0°35 | 7° 0 | 22°36 | 24°17 | 25°10 | 21° 1 | 21°57 | 15°10 | 26° 5 | W18 | |
| T19 | 1 53 16 | 26°26'18 | 19°46 | 18°17 | 29°57 | 10° 2 | 0°27 | 7° 0 | 22°37 | 24°18 | 25° 9 | 20°59 | 21°54 | 15°17 | 26°10 | T19 | |
| F20 | 1 57 13 | 27°25'35 | 4♎11 | 17°31 | 1♎12 | 10°45 | 0°19 | 7° 1 | 22°38 | 24°19 | 25° 8 | 20°57 | 21°51 | 15°24 | 26°15 | F20 | |
| S21 | 2 1 9 | 28°24'54 | 18°37 | 16°54 | 2°27 | 11°27 | 0°10 | 7° 2 | 22°39 | 24°20 | 25° 7 | 20°54 | 21°47 | 15°30 | 26°20 | S21 | |
| S22 | 2 5 6 | 29°24'14 | 3♎ 0 | 16°27 | 3°42 | 12°10 | 0° 2 | 7° 3 | 22°40 | 24°21 | 25° 6 | 20°51 | 21°44 | 15°37 | 26°24 | S22 | |
| M23 | 2 9 2 | 0♎23'37 | 17°14 | 16°11 | 4°57 | 12°53 | 29°Y54 | 7° 5 | 22°41 | 24°23 | 25° 4 | 20°48 | 21°41 | 15°44 | 26°29 | M23 | |
| T24 | 2 12 59 | 1°23'01 | 1♌14 | 16°D 6 | 6°12 | 13°36 | 29°46 | 7° 6 | 22°42 | 24°24 | 25° 3 | 20°46 | 21°38 | 15°50 | 26°34 | T24 | |
| W25 | 2 16 55 | 2°22'27 | 14°56 | 16°11 | 7°27 | 14°18 | 29°38 | 7° 7 | 22°44 | 24°25 | 25° 2 | 20°D45 | 21°35 | 15°57 | 26°38 | W25 | |
| T26 | 2 20 52 | 3°21'56 | 28°18 | 16°28 | 8°41 | 15° 1 | 29°30 | 7° 9 | 22°45 | 24°26 | 25° 1 | 20°45 | 21°31 | 16° 4 | 26°43 | T26 | |
| F27 | 2 24 48 | 4°21'26 | 11♎19 | 16°55 | 9°56 | 15°45 | 29°22 | 7°10 | 22°46 | 24°27 | 25° 0 | 20°46 | 21°28 | 16°11 | 26°47 | F27 | |
| S28 | 2 28 45 | 5°20'59 | 24° 0 | 17°31 | 11°11 | 16°28 | 29°14 | 7°12 | 22°47 | 24°28 | 24°59 | 20°47 | 21°25 | 16°17 | 26°51 | S28 | |
| S29 | 2 32 42 | 6°20'34 | 6♌23 | 18°16 | 12°26 | 17°11 | 29° 6 | 7°14 | 22°49 | 24°29 | 24°58 | 20°49 | 21°22 | 16°24 | 26°55 | S29 | |
| M30 | 2 36 38 | 7°20'12 | 18°32 | 19° 9 | 13°41 | 17°54 | 28°58 | 7°16 | 22°50 | 24°30 | 24°56 | 20°50 | 21°19 | 16°31 | 26°59 | M30 | |
| T31 | 2 40 35 | 8♎19'51 | 0♏31 | 20♌ 9 | 14♎56 | 18♌38 | 28°Y50 | 7♌18 | 22♌52 | 24♏31 | 24°Y55 | 20♌51 | 21♌16 | 16♏38 | 27♏ 3 | T31 | |

Delta T = 18m58s

ASTRODIENST EPHEMERIS for the year 2580
geocentric

NOVEMBER 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|------|-------|--------|--------|--------|-------|-------|-------|------|---|---|---|---|-----|
| W 1 | 2 44 31 | 9♍19'33 | 12♌25 | 21♊16 | 16♋11 | 19♏21 | 28°R42 | 7♋20 | 22♉53 | 24♌231 | 24°R54 | 20°R51 | 21♉12 | 16♌44 | 27♌7 | W 1 | | | | | |
| T 2 | 2 48 28 | 10°19'17 | 24°18 | 22°27 | 17°26 | 20° 4 | 28°Y34 | 7°22 | 22°55 | 24°32 | 24°Y53 | 20♉50 | 21° 9 | 16°51 | 27°11 | T 2 | | | | | |
| F 3 | 2 52 24 | 11°19'03 | 6♎15 | 23°44 | 18°41 | 20°48 | 28°27 | 7°24 | 22°57 | 24°33 | 24°52 | 20°49 | 21° 6 | 16°58 | 27°15 | F 3 | | | | | |
| S 4 | 2 56 21 | 12°18'51 | 18°20 | 25° 5 | 19°56 | 21°32 | 28°19 | 7°26 | 22°58 | 24°34 | 24°51 | 20°48 | 21° 3 | 17° 4 | 27°18 | S 4 | | | | | |
| S 5 | 3 0 17 | 13°18'41 | 0♊37 | 26°29 | 21°11 | 22°15 | 28°12 | 7°29 | 23° 0 | 24°35 | 24°50 | 20°47 | 21° 0 | 17°11 | 27°22 | S 5 | | | | | |
| M 6 | 3 4 14 | 14°18'33 | 13° 8 | 27°56 | 22°27 | 22°59 | 28° 4 | 7°31 | 23° 2 | 24°35 | 24°49 | 20°46 | 20°57 | 17°18 | 27°26 | M 6 | | | | | |
| T 7 | 3 8 11 | 15°18'28 | 25°56 | 29°25 | 23°42 | 23°43 | 27°57 | 7°34 | 23° 3 | 24°36 | 24°48 | 20°46 | 20°53 | 17°25 | 27°29 | T 7 | | | | | |
| W 8 | 3 12 7 | 16°18'24 | 9♍ 1 | 0♍57 | 24°57 | 24°27 | 27°49 | 7°37 | 23° 5 | 24°37 | 24°47 | 20°45 | 20°50 | 17°31 | 27°32 | W 8 | | | | | |
| T 9 | 3 16 4 | 17°18'23 | 22°24 | 2°30 | 26°12 | 25°11 | 27°42 | 7°40 | 23° 7 | 24°37 | 24°46 | 20°D45 | 20°47 | 17°38 | 27°35 | T 9 | | | | | |
| F 10 | 3 20 0 | 18°18'23 | 6♏ 2 | 4° 4 | 27°27 | 25°55 | 27°35 | 7°42 | 23° 9 | 24°38 | 24°44 | 20°45 | 20°44 | 17°45 | 27°39 | F 10 | | | | | |
| S 11 | 3 23 57 | 19°18'25 | 19°53 | 5°40 | 28°42 | 26°39 | 27°28 | 7°45 | 23°11 | 24°38 | 24°43 | 20°45 | 20°41 | 17°52 | 27°42 | S 11 | | | | | |
| S 12 | 3 27 53 | 20°18'29 | 3♉55 | 7°16 | 29°57 | 27°24 | 27°21 | 7°49 | 23°13 | 24°39 | 24°42 | 20°R46 | 20°37 | 17°58 | 27°45 | S 12 | | | | | |
| M13 | 3 31 50 | 21°18'35 | 18° 3 | 8°53 | 1♏12 | 28° 8 | 27°14 | 7°52 | 23°15 | 24°39 | 24°41 | 20°46 | 20°34 | 18° 5 | 27°47 | M13 | | | | | |
| T 14 | 3 35 47 | 22°18'42 | 2♋16 | 10°30 | 2°27 | 28°52 | 27° 8 | 7°55 | 23°17 | 24°40 | 24°40 | 20°45 | 20°31 | 18°12 | 27°50 | T 14 | | | | | |
| W15 | 3 39 43 | 23°18'50 | 16°30 | 12° 7 | 3°42 | 29°37 | 27° 1 | 7°58 | 23°20 | 24°40 | 24°39 | 20°D45 | 20°28 | 18°18 | 27°53 | W15 | | | | | |
| T 16 | 3 43 40 | 24°19'00 | 0♐42 | 13°45 | 4°57 | 0♉21 | 26°55 | 8° 2 | 23°22 | 24°41 | 24°38 | 20°45 | 20°25 | 18°25 | 27°55 | T 16 | | | | | |
| F 17 | 3 47 36 | 25°19'12 | 14°50 | 15°22 | 6°12 | 1° 6 | 26°49 | 8° 5 | 23°24 | 24°41 | 24°37 | 20°46 | 20°22 | 18°32 | 27°58 | F 17 | | | | | |
| S 18 | 3 51 33 | 26°19'24 | 28°52 | 17° 0 | 7°27 | 1°50 | 26°43 | 8° 9 | 23°26 | 24°41 | 24°36 | 20°46 | 20°18 | 18°39 | 28° 0 | S 18 | | | | | |
| S 19 | 3 55 29 | 27°19'38 | 12♏47 | 18°37 | 8°42 | 2°35 | 26°37 | 8°13 | 23°29 | 24°41 | 24°36 | 20°47 | 20°15 | 18°45 | 28° 2 | S 19 | | | | | |
| M20 | 3 59 26 | 28°19'54 | 26°31 | 20°15 | 9°57 | 3°20 | 26°31 | 8°16 | 23°31 | 24°42 | 24°35 | 20°47 | 20°12 | 18°52 | 28° 5 | M20 | | | | | |
| T 21 | 4 3 22 | 29°20'11 | 10♉ 4 | 21°52 | 11°12 | 4° 5 | 26°25 | 8°20 | 23°33 | 24°42 | 24°34 | 20°48 | 20° 9 | 18°59 | 28° 7 | T 21 | | | | | |
| W22 | 4 7 19 | 0♏20'30 | 23°24 | 23°29 | 12°27 | 4°49 | 26°20 | 8°24 | 23°36 | 24°42 | 24°33 | 20°R48 | 20° 6 | 19° 5 | 28° 9 | W22 | | | | | |
| T 23 | 4 11 16 | 1°20'51 | 6♐29 | 25° 6 | 13°43 | 5°34 | 26°15 | 8°28 | 23°38 | 24°42 | 24°32 | 20°48 | 20° 3 | 19°12 | 28°10 | T 23 | | | | | |
| F 24 | 4 15 12 | 2°21'13 | 19°18 | 26°42 | 14°58 | 6°19 | 26°10 | 8°32 | 23°41 | 24°42 | 24°31 | 20°47 | 19°59 | 19°19 | 28°12 | F 24 | | | | | |
| S 25 | 4 19 9 | 3°21'37 | 1♉53 | 28°19 | 16°13 | 7° 4 | 26° 5 | 8°37 | 23°43 | 24°42 | 24°30 | 20°45 | 19°56 | 19°26 | 28°14 | S 25 | | | | | |
| S 26 | 4 23 5 | 4°22'02 | 14°13 | 29°55 | 17°28 | 7°49 | 26° 0 | 8°41 | 23°46 | 24°R42 | 24°29 | 20°43 | 19°53 | 19°32 | 28°15 | S 26 | | | | | |
| M27 | 4 27 2 | 5°22'29 | 26°22 | 1♏31 | 18°43 | 8°35 | 25°55 | 8°45 | 23°49 | 24°42 | 24°28 | 20°41 | 19°50 | 19°39 | 28°17 | M27 | | | | | |
| T 28 | 4 30 58 | 6°22'58 | 8♌21 | 3° 7 | 19°58 | 9°20 | 25°51 | 8°50 | 23°51 | 24°42 | 24°28 | 20°39 | 19°47 | 19°46 | 28°18 | T 28 | | | | | |
| W29 | 4 34 55 | 7°23'29 | 20°15 | 4°42 | 21°13 | 10° 5 | 25°47 | 8°54 | 23°54 | 24°42 | 24°27 | 20°37 | 19°43 | 19°53 | 28°19 | W29 | | | | | |
| T 30 | 4 38 51 | 8♏24'02 | 2♎ 7 | 6♏18 | 22♏28 | 10♉50 | 25°Y43 | 8♏59 | 23♉57 | 24♌42 | 24°Y26 | 20♉36 | 19♉40 | 19♌59 | 28♌21 | T 30 | | | | | |

Delta T = 18m58s

DECEMBER 2580

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|-------|-------|--------|------|---|---|---|---|-----|
| F 1 | 4 42 48 | 9♏24'36 | 14♎ 3 | 7♏53 | 23♏43 | 11♉36 | 25°R39 | 9♏ 3 | 24♉ 0 | 24°R42 | 24°R25 | 20°D36 | 19♉37 | 20♌ 6 | 28♌22 | F 1 | | | | | |
| S 2 | 4 46 45 | 10°25'12 | 26° 6 | 9°28 | 24°58 | 12°21 | 25°Y35 | 9° 8 | 24° 2 | 24♌42 | 24°Y24 | 20♉37 | 19°34 | 20°13 | 28°23 | S 2 | | | | | |
| S 3 | 4 50 41 | 11°25'49 | 8♊22 | 11° 2 | 26°13 | 13° 7 | 25°32 | 9°13 | 24° 5 | 24°42 | 24°24 | 20°38 | 19°31 | 20°19 | 28°23 | S 3 | | | | | |
| M 4 | 4 54 38 | 12°26'28 | 20°55 | 12°37 | 27°28 | 13°52 | 25°28 | 9°18 | 24° 8 | 24°41 | 24°23 | 20°40 | 19°28 | 20°26 | 28°24 | M 4 | | | | | |
| T 5 | 4 58 34 | 13°27'09 | 3♍48 | 14°11 | 28°43 | 14°38 | 25°25 | 9°23 | 24°11 | 24°41 | 24°22 | 20°41 | 19°24 | 20°33 | 28°25 | T 5 | | | | | |
| W 6 | 5 2 31 | 14°27'51 | 17° 4 | 15°46 | 29°58 | 15°24 | 25°22 | 9°28 | 24°14 | 24°41 | 24°22 | 20°R42 | 19°21 | 20°40 | 28°25 | W 6 | | | | | |
| T 7 | 5 6 27 | 15°28'35 | 0♏44 | 17°20 | 1♉14 | 16° 9 | 25°20 | 9°33 | 24°17 | 24°40 | 24°21 | 20°42 | 19°18 | 20°46 | 28°26 | T 7 | | | | | |
| F 8 | 5 10 24 | 16°29'20 | 14°45 | 18°54 | 2°29 | 16°55 | 25°17 | 9°38 | 24°20 | 24°40 | 24°20 | 20°40 | 19°15 | 20°53 | 28°26 | F 8 | | | | | |
| S 9 | 5 14 20 | 17°30'06 | 29° 4 | 20°28 | 3°44 | 17°41 | 25°15 | 9°43 | 24°23 | 24°40 | 24°20 | 20°37 | 19°12 | 21° 0 | 28°26 | S 9 | | | | | |
| S 10 | 5 18 17 | 18°30'54 | 13♉36 | 22° 2 | 4°59 | 18°27 | 25°13 | 9°48 | 24°26 | 24°39 | 24°19 | 20°33 | 19° 9 | 21° 7 | 28°R26 | S 10 | | | | | |
| M11 | 5 22 14 | 19°31'43 | 28°13 | 23°36 | 6°14 | 19°13 | 25°11 | 9°54 | 24°29 | 24°39 | 24°18 | 20°29 | 19° 5 | 21°13 | 28°26 | M11 | | | | | |
| T 12 | 5 26 10 | 20°32'32 | 12♋50 | 25°10 | 7°29 | 19°59 | 25° 9 | 9°59 | 24°32 | 24°38 | 24°18 | 20°25 | 19° 2 | 21°20 | 28°26 | T 12 | | | | | |
| W13 | 5 30 7 | 21°33'23 | 27°21 | 26°43 | 8°44 | 20°45 | 25° 8 | 10° 4 | 24°35 | 24°38 | 24°17 | 20°22 | 18°59 | 21°27 | 28°26 | W13 | | | | | |
| T 14 | 5 34 3 | 22°34'14 | 11♏39 | 28°17 | 9°59 | 21°31 | 25° 7 | 10°10 | 24°38 | 24°37 | 24°17 | 20°20 | 18°56 | 21°33 | 28°25 | T 14 | | | | | |
| F 15 | 5 38 0 | 23°35'06 | 25°44 | 29°51 | 11°14 | 22°17 | 25° 5 | 10°16 | 24°42 | 24°36 | 24°16 | 20°D19 | 18°53 | 21°40 | 28°25 | F 15 | | | | | |
| S 16 | 5 41 56 | 24°35'58 | 9♏34 | 1♉25 | 12°29 | 23° 3 | 25° 5 | 10°21 | 24°45 | 24°36 | 24°16 | 20°20 | 18°49 | 21°47 | 28°24 | S 16 | | | | | |
| S 17 | 5 45 53 | 25°36'51 | 23° 8 | 2°59 | 13°44 | 23°49 | 25° 4 | 10°27 | 24°48 | 24°35 | 24°15 | 20°22 | 18°46 | 21°54 | 28°24 | S 17 | | | | | |
| M18 | 5 49 49 | 26°37'45 | 6♉29 | 4°32 | 14°59 | 24°36 | 25° 4 | 10°33 | 24°51 | 24°34 | 24°15 | 20°23 | 18°43 | 22° 0 | 28°23 | M18 | | | | | |
| T 19 | 5 53 46 | 27°38'40 | 19°36 | 6° 6 | 16°14 | 25°22 | 25°D 3 | 10°38 | 24°54 | 24°34 | 24°14 | 20°R24 | 18°40 | 22° 7 | 28°22 | T 19 | | | | | |
| W20 | 5 57 43 | 28°39'35 | 2♐32 | 7°40 | 17°29 | 26° 8 | 25° 3 | 10°44 | 24°58 | 24°33 | 24°14 | 20°23 | 18°37 | 22°14 | 28°21 | W20 | | | | | |
| T 21 | 6 1 39 | 29°40'32 | 15°15 | 9°14 | 18°44 | 26°55 | 25° 4 | 10°50 | 25° 1 | 24°32 | 24°14 | 20°20 | 18°34 | 22°21 | 28°20 | T 21 | | | | | |
| F 22 | 6 5 36 | 0♐41'29 | 27°48 | 10°48 | 19°59 | 27°41 | 25° 4 | 10°56 | 25° 4 | 24°31 | 24°13 | 20°16 | 18°30 | 22°27 | 28°19 | F 22 | | | | | |
| S 23 | 6 9 32 | 1°42'26 | 10♉11 | 12°22 | 21°14 | 28°28 | 25° 5 | 11° 2 | 25° 8 | 24°30 | 24°13 | 20° 9 | 18°27 | 22°34 | 28°18 | S 23 | | | | | |
| S 24 | 6 13 29 | 2°43'25 | 22°24 | 13°55 | 22°29 | 29°14 | 25° 6 | 11° 8 | 25°11 | 24°30 | 24°13 | 20° 1 | 18°24 | 22°41 | 28°16 | S 24 | | | | | |
| M25 | 6 17 25 | 3°44'24 | 4♌29 | 15°29 | 23°44 | 0♋ 1 | 25° 7 | 11°14 | 25°14 | 24°29 | 24°12 | 19°52 | 18°21 | 22°47 | 28°15 | M25 | | | | | |
| T 26 | 6 21 22 | 4°45'25 | 16°26 | 17° 3 | 24°59 | 0°47 | 25° 8 | 11°21 | 25°18 | 24°28 | 24°12 | 19°44 | 18°18 | 22°54 | 28°13 | T 26 | | | | | |
| W27 | 6 25 19 | 5°46'25 | 28°18 | 18°36 | 26°14 | 1°34 | 25° 9 | 11°27 | 25°21 | 24°27 | 24°12 | 19°36 | 18°15 | 23° 1 | 28°11 | W27 | | | | | |
| T 28 | 6 29 15 | 6°47'27 | 10♎ 9 | 20° 9 | 27°29 | 2°21 | 25°11 | 11°33 | 25°25 | 24°26 | 24°12 | 19°31 | 18°11 | 23° 8 | 28°10 | T 28 | | | | | |
| F 29 | 6 33 12 | 7°48'30 | 22° 2 | 21°42 | 28°44 | 3° 7 | 25°13 | 11°39 | 25°28 | 24°25 | 24°11 | 19°27 | 18° 8 | 23°14 | 28° 8 | F 29 | | | | | |
| S 30 | 6 37 8 | 8°49'33 | 4♌ 2 | 23°15 | 29°59 | 3°54 | 25°15 | 11°46 | 25°32 | 24°24 | 24°11 | 19°D25 | 18° 5 | 23°21 | 28° 6 | S 30 | | | | | |
| S 31 | 6 41 5 | 9♉50'37 | 16♊14 | 24♉47 | 1♋14 | 4♋41 | 25°Y17 | 11♋52 | 25♉35 | 24♌23 | 24°Y11 | 19♉25 | 18♉ 2 | 23♌28 | 28♌ 4 | S 31 | | | | | |

Delta T = 18m59s

ASTRODIENST EPHEMERIS for the year 2581
geocentric

JANUARY 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|-------|-------|--------|--------|--------|-------|-------|--------|------|-----|
| M 1 | 6 45 1 | 10♁51'42 | 28♁42 | 26♁19 | 2♁29 | 5♁28 | 25♁20 | 11♁58 | 25♁39 | 24°R21 | 24°R11 | 19♁26 | 17♁59 | 23♁34 | 28°R 2 | M 1 | |
| T 2 | 6 48 58 | 11°52'48 | 11♁32 | 27°50 | 3°44 | 6°14 | 25°22 | 12° 5 | 25°42 | 24♁20 | 24°Y11 | 19°27 | 17°55 | 23°41 | 27♁59 | T 2 | |
| W 3 | 6 52 54 | 12°53'54 | 24°48 | 29°20 | 4°59 | 7° 1 | 25°25 | 12°11 | 25°45 | 24°19 | 24°11 | 19°R27 | 17°52 | 23°48 | 27°57 | W 3 | |
| T 4 | 6 56 51 | 13°55'01 | 8♁31 | 0♁49 | 6°14 | 7°48 | 25°28 | 12°18 | 25°49 | 24°18 | 24°10 | 19°26 | 17°49 | 23°55 | 27°55 | T 4 | |
| F 5 | 7 0 48 | 14°56'09 | 22°43 | 2°16 | 7°29 | 8°35 | 25°32 | 12°25 | 25°53 | 24°17 | 24°10 | 19°22 | 17°46 | 24° 1 | 27°52 | F 5 | |
| S 6 | 7 4 44 | 15°57'17 | 7♁19 | 3°42 | 8°44 | 9°22 | 25°35 | 12°31 | 25°56 | 24°16 | 24°10 | 19°15 | 17°43 | 24° 8 | 27°49 | S 6 | |
| S 7 | 7 8 41 | 16°58'25 | 22°14 | 5° 6 | 9°58 | 10° 9 | 25°39 | 12°38 | 26° 0 | 24°14 | 24°D10 | 19° 7 | 17°40 | 24°15 | 27°47 | S 7 | |
| M 8 | 7 12 37 | 17°59'34 | 7♁19 | 6°28 | 11°13 | 10°56 | 25°43 | 12°45 | 26° 3 | 24°13 | 24°10 | 18°57 | 17°36 | 24°22 | 27°44 | M 8 | |
| T 9 | 7 16 34 | 19° 0'42 | 22°23 | 7°47 | 12°28 | 11°43 | 25°47 | 12°51 | 26° 7 | 24°12 | 24°10 | 18°48 | 17°33 | 24°28 | 27°41 | T 9 | |
| W10 | 7 20 30 | 20° 1'51 | 7♁17 | 9° 3 | 13°43 | 12°30 | 25°51 | 12°58 | 26°10 | 24°10 | 24°10 | 18°40 | 17°30 | 24°35 | 27°38 | W10 | |
| T 11 | 7 24 27 | 21° 2'59 | 21°54 | 10°15 | 14°58 | 13°17 | 25°55 | 13° 5 | 26°14 | 24° 9 | 24°11 | 18°34 | 17°27 | 24°42 | 27°35 | T 11 | |
| F 12 | 7 28 23 | 22° 4'07 | 6°Y 9 | 11°23 | 16°13 | 14° 4 | 26° 0 | 13°12 | 26°17 | 24° 8 | 24°11 | 18°30 | 17°24 | 24°48 | 27°32 | F 12 | |
| S 13 | 7 32 20 | 23° 5'15 | 20° 0 | 12°25 | 17°27 | 14°52 | 26° 5 | 13°18 | 26°21 | 24° 6 | 24°11 | 18°D29 | 17°21 | 24°55 | 27°29 | S 13 | |
| S 14 | 7 36 17 | 24° 6'22 | 3♁29 | 13°22 | 18°42 | 15°39 | 26°10 | 13°25 | 26°25 | 24° 5 | 24°11 | 18°29 | 17°17 | 25° 2 | 27°25 | S 14 | |
| M15 | 7 40 13 | 25° 7'29 | 16°38 | 14°12 | 19°57 | 16°26 | 26°15 | 13°32 | 26°28 | 24° 4 | 24°11 | 18°R30 | 17°14 | 25° 9 | 27°22 | M15 | |
| T 16 | 7 44 10 | 26° 8'36 | 29°29 | 14°55 | 21°11 | 17°13 | 26°20 | 13°39 | 26°32 | 24° 2 | 24°11 | 18°29 | 17°11 | 25°15 | 27°19 | T 16 | |
| W17 | 7 48 6 | 27° 9'43 | 12♁6 | 15°28 | 22°26 | 18° 0 | 26°26 | 13°46 | 26°35 | 24° 1 | 24°12 | 18°27 | 17° 8 | 25°22 | 27°15 | W17 | |
| T 18 | 7 52 3 | 28°10'49 | 24°33 | 15°53 | 23°41 | 18°48 | 26°32 | 13°53 | 26°39 | 23°59 | 24°12 | 18°21 | 17° 5 | 25°29 | 27°12 | T 18 | |
| F 19 | 7 55 59 | 29°11'55 | 6♁50 | 16° 7 | 24°55 | 19°35 | 26°38 | 14° 0 | 26°42 | 23°58 | 24°12 | 18°13 | 17° 1 | 25°35 | 27° 8 | F 19 | |
| S 20 | 7 59 56 | 0♁13'00 | 18°59 | 16°R11 | 26°10 | 20°22 | 26°44 | 14° 7 | 26°46 | 23°56 | 24°12 | 18° 2 | 16°58 | 25°42 | 27° 4 | S 20 | |
| S 21 | 8 3 53 | 1°14'06 | 1♁ 3 | 16° 2 | 27°25 | 21°10 | 26°50 | 14°14 | 26°50 | 23°55 | 24°13 | 17°49 | 16°55 | 25°49 | 27° 0 | S 21 | |
| M22 | 8 7 49 | 2°15'10 | 13° 1 | 15°42 | 28°39 | 21°57 | 26°56 | 14°21 | 26°53 | 23°53 | 24°13 | 17°34 | 16°52 | 25°56 | 26°57 | M22 | |
| T 23 | 8 11 46 | 3°16'15 | 24°56 | 15°11 | 29°54 | 22°44 | 27° 3 | 14°28 | 26°57 | 23°52 | 24°13 | 17°20 | 16°49 | 26° 2 | 26°53 | T 23 | |
| W24 | 8 15 42 | 4°17'19 | 6♁47 | 14°28 | 1♁ 8 | 23°32 | 27°10 | 14°35 | 27° 0 | 23°50 | 24°14 | 17° 7 | 16°46 | 26° 9 | 26°49 | W24 | |
| T 25 | 8 19 39 | 5°18'23 | 18°38 | 13°34 | 2°23 | 24°19 | 27°17 | 14°42 | 27° 4 | 23°48 | 24°14 | 16°57 | 16°42 | 26°16 | 26°45 | T 25 | |
| F 26 | 8 23 35 | 6°19'27 | 0♁32 | 12°32 | 3°37 | 25° 6 | 27°24 | 14°49 | 27° 7 | 23°47 | 24°15 | 16°49 | 16°39 | 26°23 | 26°41 | F 26 | |
| S 27 | 8 27 32 | 7°20'30 | 12°30 | 11°23 | 4°51 | 25°54 | 27°31 | 14°56 | 27°11 | 23°45 | 24°15 | 16°44 | 16°36 | 26°29 | 26°37 | S 27 | |
| S 28 | 8 31 28 | 8°21'33 | 24°39 | 10° 8 | 6° 6 | 26°41 | 27°38 | 15° 3 | 27°14 | 23°44 | 24°15 | 16°41 | 16°33 | 26°36 | 26°33 | S 28 | |
| M29 | 8 35 25 | 9°22'36 | 7♁ 3 | 8°51 | 7°20 | 27°28 | 27°46 | 15°11 | 27°18 | 23°42 | 24°16 | 16°41 | 16°30 | 26°43 | 26°28 | M29 | |
| T 30 | 8 39 21 | 10°23'38 | 19°46 | 7°33 | 8°35 | 28°16 | 27°53 | 15°18 | 27°21 | 23°40 | 24°16 | 16°41 | 16°27 | 26°49 | 26°24 | T 30 | |
| W31 | 8 43 18 | 11°24'41 | 2♁54 | 6♁17 | 9♁49 | 29° 3 | 28°Y 1 | 15°25 | 27♁25 | 23♁39 | 24°Y17 | 16♁40 | 16♁23 | 26♁56 | 26♁20 | W31 | |

Delta T = 18m59s

FEBRUARY 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|--------|-------|--------|-------|-------|--------|--------|--------|-------|-------|--------|------|-----|
| T 1 | 8 47 15 | 12°25'43 | 16♁30 | 5°R 6 | 11♁ 3 | 29°51 | 28°Y 9 | 15°32 | 27♁28 | 23°R37 | 24°Y17 | 16°R38 | 16♁20 | 27♁ 3 | 26°R16 | T 1 | |
| F 2 | 8 51 11 | 13°26'44 | 0♁37 | 4♁ 0 | 12°17 | 0♁38 | 28°17 | 15°39 | 27°32 | 23♁36 | 24°18 | 16♁33 | 16°17 | 27°10 | 26♁11 | F 2 | |
| S 3 | 8 55 8 | 14°27'45 | 15°13 | 3° 1 | 13°32 | 1°26 | 28°26 | 15°46 | 27°35 | 23°34 | 24°19 | 16°25 | 16°14 | 27°16 | 26° 7 | S 3 | |
| S 4 | 8 59 4 | 15°28'46 | 0♁13 | 2°11 | 14°46 | 2°13 | 28°34 | 15°53 | 27°39 | 23°32 | 24°19 | 16°14 | 16°11 | 27°23 | 26° 3 | S 4 | |
| M 5 | 9 3 1 | 16°29'45 | 15°30 | 1°29 | 16° 0 | 3° 1 | 28°43 | 16° 1 | 27°42 | 23°31 | 24°20 | 16° 3 | 16° 7 | 27°30 | 25°58 | M 5 | |
| T 6 | 9 6 57 | 17°30'44 | 0♁51 | 0°56 | 17°14 | 3°48 | 28°52 | 16° 8 | 27°46 | 23°29 | 24°21 | 15°51 | 16° 4 | 27°36 | 25°54 | T 6 | |
| W 7 | 9 10 54 | 18°31'42 | 16° 4 | 0°32 | 18°28 | 4°36 | 29° 0 | 16°15 | 27°49 | 23°27 | 24°21 | 15°40 | 16° 1 | 27°43 | 25°49 | W 7 | |
| T 8 | 9 14 51 | 19°32'38 | 1°Y 0 | 0°17 | 19°42 | 5°23 | 29° 9 | 16°22 | 27°53 | 23°25 | 24°22 | 15°33 | 15°58 | 27°50 | 25°45 | T 8 | |
| F 9 | 9 18 47 | 20°33'34 | 15°32 | 0°D10 | 20°56 | 6°11 | 29°19 | 16°29 | 27°56 | 23°24 | 24°23 | 15°27 | 15°55 | 27°57 | 25°40 | F 9 | |
| S 10 | 9 22 44 | 21°34'28 | 29°35 | 0°11 | 22°10 | 6°58 | 29°28 | 16°36 | 27°59 | 23°22 | 24°23 | 15°25 | 15°52 | 28° 3 | 25°36 | S 10 | |
| S 11 | 9 26 40 | 22°35'21 | 13♁10 | 0°19 | 23°24 | 7°46 | 29°37 | 16°43 | 28° 3 | 23°20 | 24°24 | 15°D24 | 15°48 | 28°10 | 25°31 | S 11 | |
| M12 | 9 30 37 | 23°36'13 | 26°20 | 0°34 | 24°37 | 8°33 | 29°47 | 16°50 | 28° 6 | 23°19 | 24°25 | 15°R24 | 15°45 | 28°17 | 25°27 | M12 | |
| T 13 | 9 34 33 | 24°37'03 | 9♁ 8 | 0°55 | 25°51 | 9°20 | 29°56 | 16°58 | 28° 9 | 23°17 | 24°26 | 15°24 | 15°42 | 28°24 | 25°22 | T 13 | |
| W14 | 9 38 30 | 25°37'52 | 21°38 | 1°23 | 27° 5 | 10° 8 | 0♁ 6 | 17° 5 | 28°12 | 23°15 | 24°27 | 15°21 | 15°39 | 28°30 | 25°17 | W14 | |
| T 15 | 9 42 26 | 26°38'40 | 3♁55 | 1°55 | 28°19 | 10°55 | 0°16 | 17°12 | 28°16 | 23°14 | 24°27 | 15°16 | 15°36 | 28°37 | 25°13 | T 15 | |
| F 16 | 9 46 23 | 27°39'26 | 16° 2 | 2°33 | 29°32 | 11°43 | 0°26 | 17°19 | 28°19 | 23°12 | 24°28 | 15° 8 | 15°33 | 28°44 | 25° 8 | F 16 | |
| S 17 | 9 50 20 | 28°40'11 | 28° 2 | 3°15 | 0°Y46 | 12°30 | 0°36 | 17°26 | 28°22 | 23°10 | 24°29 | 14°57 | 15°29 | 28°50 | 25° 4 | S 17 | |
| S 18 | 9 54 16 | 29°40'55 | 9♁58 | 4° 1 | 1°59 | 13°18 | 0°47 | 17°33 | 28°25 | 23° 9 | 24°30 | 14°44 | 15°26 | 28°57 | 24°59 | S 18 | |
| M19 | 9 58 13 | 0♁41'37 | 21°52 | 4°51 | 3°13 | 14° 5 | 0°57 | 17°40 | 28°29 | 23° 7 | 24°31 | 14°30 | 15°23 | 29° 4 | 24°55 | M19 | |
| T 20 | 10 2 9 | 1°42'18 | 3♁44 | 5°44 | 4°26 | 14°52 | 1° 7 | 17°47 | 28°32 | 23° 5 | 24°32 | 14°16 | 15°20 | 29°11 | 24°50 | T 20 | |
| W21 | 10 6 6 | 2°42'57 | 15°37 | 6°41 | 5°39 | 15°40 | 1°18 | 17°54 | 28°35 | 23° 4 | 24°33 | 14° 3 | 15°17 | 29°17 | 24°46 | W21 | |
| T 22 | 10 10 2 | 3°43'36 | 27°31 | 7°40 | 6°53 | 16°27 | 1°29 | 18° 1 | 28°38 | 23° 2 | 24°34 | 13°52 | 15°13 | 29°24 | 24°41 | T 22 | |
| F 23 | 10 13 59 | 4°44'12 | 9♁28 | 8°42 | 8° 6 | 17°15 | 1°40 | 18° 8 | 28°41 | 23° 0 | 24°35 | 13°44 | 15°10 | 29°31 | 24°37 | F 23 | |
| S 24 | 10 17 55 | 5°44'48 | 21°32 | 9°46 | 9°19 | 18° 2 | 1°50 | 18°15 | 28°44 | 22°59 | 24°36 | 13°39 | 15° 7 | 29°37 | 24°32 | S 24 | |
| S 25 | 10 21 52 | 6°45'23 | 3♁44 | 10°53 | 10°32 | 18°49 | 2° 1 | 18°22 | 28°47 | 22°57 | 24°37 | 13°37 | 15° 4 | 29°44 | 24°28 | S 25 | |
| M26 | 10 25 48 | 7°45'56 | 16° 9 | 12° 2 | 11°45 | 19°37 | 2°13 | 18°29 | 28°50 | 22°55 | 24°38 | 13°D36 | 15° 1 | 29°51 | 24°24 | M26 | |
| T 27 | 10 29 45 | 8°46'28 | 28°50 | 13°13 | 12°58 | 20°24 | 2°24 | 18°36 | 28°53 | 22°54 | 24°39 | 13°37 | 14°58 | 29°58 | 24°19 | T 27 | |
| W28 | 10 33 42 | 9♁46'59 | 11♁53 | 14°26 | 14°Y11 | 21♁11 | 2♁35 | 18°42 | 28♁56 | 22♁52 | 24°Y40 | 13°R37 | 14♁54 | 0♁ 4 | 24♁15 | W28 | |

Delta T = 18m59s

ASTRODIENST EPHEMERIS for the year 2581
geocentric

MARCH 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------|-------|-------|-------|--------|------|-------|-------|--------|--------|--------|-------|------|--------|------|-----|
| T 1 | 10 37 38 | 10♋47'29 | 25♌20 | 15♍40 | 15♎24 | 21♏59 | 2♐47 | 18♑49 | 28♒59 | 22°R51 | 24♓41 | 13°R36 | 14♈51 | 0♉11 | 24°R11 | T 1 | |
| F 2 | 10 41 35 | 11°47'58 | 9♉16 | 16°56 | 16°36 | 22°46 | 2°58 | 18°56 | 29° 2 | 22♑49 | 24°42 | 13♈33 | 14°48 | 0°18 | 24♌6 | F 2 | |
| S 3 | 10 45 31 | 12°48'25 | 23°39 | 18°14 | 17°49 | 23°33 | 3°10 | 19° 3 | 29° 4 | 22°47 | 24°43 | 13°27 | 14°45 | 0°24 | 24° 2 | S 3 | |
| S 4 | 10 49 28 | 13°48'51 | 8♋27 | 19°33 | 19° 2 | 24°21 | 3°21 | 19° 9 | 29° 7 | 22°46 | 24°44 | 13°20 | 14°42 | 0°31 | 23°58 | S 4 | |
| M 5 | 10 53 24 | 14°49'16 | 23°34 | 20°54 | 20°14 | 25° 8 | 3°33 | 19°16 | 29°10 | 22°44 | 24°45 | 13°11 | 14°38 | 0°38 | 23°54 | M 5 | |
| T 6 | 10 57 21 | 15°49'39 | 8♋52 | 22°16 | 21°26 | 25°55 | 3°45 | 19°23 | 29°13 | 22°43 | 24°47 | 13° 2 | 14°35 | 0°45 | 23°50 | T 6 | |
| W 7 | 11 1 17 | 16°50'00 | 24° 7 | 23°39 | 22°39 | 26°42 | 3°57 | 19°29 | 29°15 | 22°41 | 24°48 | 12°53 | 14°32 | 0°51 | 23°46 | W 7 | |
| T 8 | 11 5 14 | 17°50'19 | 9♎11 | 25° 4 | 23°51 | 27°29 | 4° 9 | 19°36 | 29°18 | 22°40 | 24°49 | 12°47 | 14°29 | 0°58 | 23°42 | T 8 | |
| F 9 | 11 9 11 | 18°50'37 | 23°53 | 26°30 | 25° 3 | 28°17 | 4°21 | 19°43 | 29°21 | 22°38 | 24°50 | 12°43 | 14°26 | 1° 5 | 23°38 | F 9 | |
| S 10 | 11 13 7 | 19°50'53 | 8♉ 8 | 27°57 | 26°16 | 29° 4 | 4°33 | 19°49 | 29°23 | 22°37 | 24°51 | 12°D42 | 14°23 | 1°11 | 23°34 | S 10 | |
| S 11 | 11 17 4 | 20°51'07 | 21°54 | 29°25 | 27°28 | 29°51 | 4°46 | 19°56 | 29°26 | 22°35 | 24°52 | 12°42 | 14°19 | 1°18 | 23°30 | S 11 | |
| M12 | 11 21 0 | 21°51'19 | 5♈13 | 0♋54 | 28°40 | 0♎38 | 4°58 | 20° 2 | 29°28 | 22°34 | 24°54 | 12°43 | 14°16 | 1°25 | 23°26 | M12 | |
| T 13 | 11 24 57 | 22°51'29 | 18° 6 | 2°25 | 29°51 | 1°25 | 5°11 | 20° 8 | 29°31 | 22°32 | 24°55 | 12°R44 | 14°13 | 1°32 | 23°23 | T 13 | |
| W14 | 11 28 53 | 23°51'37 | 0♉38 | 3°56 | 1♉ 3 | 2°12 | 5°23 | 20°15 | 29°33 | 22°31 | 24°56 | 12°44 | 14°10 | 1°38 | 23°19 | W14 | |
| T 15 | 11 32 50 | 24°51'43 | 12°54 | 5°29 | 2°15 | 2°59 | 5°36 | 20°21 | 29°36 | 22°30 | 24°57 | 12°42 | 14° 7 | 1°45 | 23°15 | T 15 | |
| F 16 | 11 36 46 | 25°51'47 | 24°59 | 7° 3 | 3°26 | 3°46 | 5°48 | 20°27 | 29°38 | 22°28 | 24°59 | 12°38 | 14° 4 | 1°52 | 23°12 | F 16 | |
| S 17 | 11 40 43 | 26°51'49 | 6♌55 | 8°38 | 4°38 | 4°33 | 6° 1 | 20°34 | 29°40 | 22°27 | 25° 0 | 12°32 | 14° 0 | 1°59 | 23° 9 | S 17 | |
| S 18 | 11 44 40 | 27°51'48 | 18°47 | 10°14 | 5°49 | 5°20 | 6°14 | 20°40 | 29°43 | 22°26 | 25° 1 | 12°24 | 13°57 | 2° 5 | 23° 5 | S 18 | |
| M19 | 11 48 36 | 28°51'46 | 0♎39 | 11°52 | 7° 1 | 6° 7 | 6°27 | 20°46 | 29°45 | 22°24 | 25° 3 | 12°16 | 13°54 | 2°12 | 23° 2 | M19 | |
| T 20 | 11 52 33 | 29°51'41 | 12°31 | 13°30 | 8°12 | 6°54 | 6°40 | 20°52 | 29°47 | 22°23 | 25° 4 | 12° 7 | 13°51 | 2°19 | 22°59 | T 20 | |
| W21 | 11 56 29 | 0♎51'35 | 24°27 | 15°10 | 9°23 | 7°40 | 6°53 | 20°58 | 29°49 | 22°22 | 25° 5 | 11°59 | 13°48 | 2°25 | 22°56 | W21 | |
| T 22 | 12 0 26 | 1°51'27 | 6♌28 | 16°50 | 10°34 | 8°27 | 7° 6 | 21° 4 | 29°52 | 22°21 | 25° 7 | 11°53 | 13°44 | 2°32 | 22°53 | T 22 | |
| F 23 | 12 4 22 | 2°51'16 | 18°34 | 18°32 | 11°45 | 9°14 | 7°19 | 21°10 | 29°54 | 22°19 | 25° 8 | 11°49 | 13°41 | 2°39 | 22°50 | F 23 | |
| S 24 | 12 8 19 | 3°51'04 | 0♎49 | 20°15 | 12°55 | 10° 1 | 7°32 | 21°16 | 29°56 | 22°18 | 25° 9 | 11°46 | 13°38 | 2°46 | 22°47 | S 24 | |
| S 25 | 12 12 15 | 4°50'50 | 13°13 | 22° 0 | 14° 6 | 10°47 | 7°45 | 21°22 | 29°58 | 22°17 | 25°11 | 11°D46 | 13°35 | 2°52 | 22°44 | S 25 | |
| M26 | 12 16 12 | 5°50'35 | 25°49 | 23°45 | 15°17 | 11°34 | 7°58 | 21°28 | 29°59 | 22°16 | 25°12 | 11°46 | 13°32 | 2°59 | 22°41 | M26 | |
| T 27 | 12 20 9 | 6°50'18 | 8♌39 | 25°32 | 16°27 | 12°21 | 8°12 | 21°33 | 0♋ 1 | 22°15 | 25°13 | 11°48 | 13°29 | 3° 6 | 22°39 | T 27 | |
| W28 | 12 24 5 | 7°49'59 | 21°46 | 27°20 | 17°37 | 13° 7 | 8°25 | 21°39 | 0° 3 | 22°14 | 25°15 | 11°49 | 13°25 | 3°12 | 22°36 | W28 | |
| T 29 | 12 28 2 | 8°49'38 | 5♉12 | 29° 9 | 18°47 | 13°54 | 8°39 | 21°45 | 0° 5 | 22°13 | 25°16 | 11°R50 | 13°22 | 3°19 | 22°34 | T 29 | |
| F 30 | 12 31 58 | 9°49'16 | 18°59 | 1°Y 0 | 19°57 | 14°40 | 8°52 | 21°50 | 0° 7 | 22°12 | 25°17 | 11°50 | 13°19 | 3°26 | 22°31 | F 30 | |
| S 31 | 12 35 55 | 10°Y48'52 | 3♋ 9 | 2°Y51 | 21♉ 7 | 15°Y27 | 9♉ 6 | 21♋56 | 0♋ 9 | 22♑11 | 25°Y19 | 11♈48 | 13♉16 | 3♎33 | 22♑29 | S 31 | |

Delta T = 19m00s

APRIL 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------|-------|-------|-------|--------|-------|-------|------|--------|--------|--------|-------|------|--------|------|-----|
| S 1 | 12 39 51 | 11°Y48'26 | 17♋38 | 4°Y44 | 22♉17 | 16°Y13 | 9♉19 | 22♋ 1 | 0♋10 | 22°R10 | 25°Y20 | 11°R45 | 13♉13 | 3♎39 | 22°R27 | S 1 | |
| M 2 | 12 43 48 | 12°47'59 | 2♋24 | 6°39 | 23°27 | 17° 0 | 9°33 | 22° 7 | 0°12 | 22♑ 9 | 25°22 | 11♈42 | 13°10 | 3°46 | 22♑25 | M 2 | |
| T 3 | 12 47 44 | 13°47'30 | 17°21 | 8°34 | 24°36 | 17°46 | 9°47 | 22°12 | 0°14 | 22° 8 | 25°23 | 11°37 | 13° 6 | 3°53 | 22°23 | T 3 | |
| W 4 | 12 51 41 | 14°46'59 | 2°Y20 | 10°31 | 25°46 | 18°33 | 10° 0 | 22°17 | 0°15 | 22° 7 | 25°24 | 11°34 | 13° 3 | 3°59 | 22°21 | W 4 | |
| T 5 | 12 55 38 | 15°46'25 | 17°12 | 12°29 | 26°55 | 19°19 | 10°14 | 22°22 | 0°17 | 22° 6 | 25°26 | 11°31 | 13° 0 | 4° 6 | 22°19 | T 5 | |
| F 6 | 12 59 34 | 16°45'50 | 1♉49 | 14°28 | 28° 4 | 20° 5 | 10°28 | 22°28 | 0°18 | 22° 5 | 25°27 | 11°29 | 12°57 | 4°13 | 22°17 | F 6 | |
| S 7 | 13 3 31 | 17°45'13 | 16° 5 | 16°28 | 29°13 | 20°52 | 10°42 | 22°33 | 0°19 | 22° 4 | 25°29 | 11°D29 | 12°54 | 4°20 | 22°16 | S 7 | |
| S 8 | 13 7 27 | 18°44'34 | 29°56 | 18°29 | 0♈22 | 21°38 | 10°56 | 22°38 | 0°21 | 22° 4 | 25°30 | 11°30 | 12°50 | 4°26 | 22°14 | S 8 | |
| M 9 | 13 11 24 | 19°43'53 | 13♈21 | 20°31 | 1°31 | 22°24 | 11° 9 | 22°43 | 0°22 | 22° 3 | 25°31 | 11°31 | 12°47 | 4°33 | 22°13 | M 9 | |
| T 10 | 13 15 20 | 20°43'09 | 26°21 | 22°34 | 2°39 | 23°10 | 11°23 | 22°47 | 0°23 | 22° 2 | 25°33 | 11°33 | 12°44 | 4°40 | 22°12 | T 10 | |
| W11 | 13 19 17 | 21°42'23 | 8♉59 | 24°37 | 3°48 | 23°56 | 11°37 | 22°52 | 0°25 | 22° 1 | 25°34 | 11°34 | 12°41 | 4°46 | 22°11 | W11 | |
| T 12 | 13 23 13 | 22°41'35 | 21°19 | 26°41 | 4°56 | 24°42 | 11°51 | 22°57 | 0°26 | 22° 1 | 25°36 | 11°R35 | 12°38 | 4°53 | 22° 9 | T 12 | |
| F 13 | 13 27 10 | 23°40'45 | 3♌26 | 28°46 | 6° 4 | 25°28 | 12° 5 | 23° 2 | 0°27 | 22° 0 | 25°37 | 11°34 | 12°35 | 5° 0 | 22° 8 | F 13 | |
| S 14 | 13 31 7 | 24°39'52 | 15°22 | 0♉50 | 7°12 | 26°14 | 12°19 | 23° 6 | 0°28 | 22° 0 | 25°39 | 11°33 | 12°31 | 5° 6 | 22° 8 | S 14 | |
| S 15 | 13 35 3 | 25°38'57 | 27°15 | 2°54 | 8°19 | 27° 0 | 12°34 | 23°11 | 0°29 | 21°59 | 25°40 | 11°31 | 12°28 | 5°13 | 22° 7 | S 15 | |
| M16 | 13 39 0 | 26°37'59 | 9♎ 6 | 4°57 | 9°27 | 27°46 | 12°48 | 23°15 | 0°30 | 21°58 | 25°41 | 11°29 | 12°25 | 5°20 | 22° 6 | M16 | |
| T 17 | 13 42 56 | 27°37'00 | 21° 0 | 7° 0 | 10°34 | 28°32 | 13° 2 | 23°20 | 0°31 | 21°58 | 25°43 | 11°27 | 12°22 | 5°27 | 22° 6 | T 17 | |
| W18 | 13 46 53 | 28°35'58 | 3♌ 1 | 9° 1 | 11°41 | 29°17 | 13°16 | 23°24 | 0°32 | 21°57 | 25°44 | 11°25 | 12°19 | 5°33 | 22° 5 | W18 | |
| T 19 | 13 50 49 | 29°34'54 | 15° 9 | 11° 1 | 12°48 | 0♉ 3 | 13°30 | 23°28 | 0°32 | 21°57 | 25°46 | 11°24 | 12°15 | 5°40 | 22° 5 | T 19 | |
| F 20 | 13 54 46 | 0♉33'48 | 27°28 | 12°59 | 13°55 | 0°49 | 13°44 | 23°32 | 0°33 | 21°57 | 25°47 | 11°23 | 12°12 | 5°47 | 22° 4 | F 20 | |
| S 21 | 13 58 42 | 1°32'41 | 9♎58 | 14°55 | 15° 1 | 1°34 | 13°59 | 23°36 | 0°34 | 21°56 | 25°49 | 11°D22 | 12° 9 | 5°53 | 22° 4 | S 21 | |
| S 22 | 14 2 39 | 2°31'31 | 22°40 | 16°49 | 16° 8 | 2°20 | 14°13 | 23°40 | 0°35 | 21°56 | 25°50 | 11°22 | 12° 6 | 6° 0 | 22°D 4 | S 22 | |
| M23 | 14 6 35 | 3°30'19 | 5♌35 | 18°39 | 17°14 | 3° 6 | 14°27 | 23°44 | 0°35 | 21°56 | 25°51 | 11°23 | 12° 3 | 6° 7 | 22° 4 | M23 | |
| T 24 | 14 10 32 | 4°29'06 | 18°44 | 20°26 | 18°20 | 3°51 | 14°41 | 23°48 | 0°36 | 21°55 | 25°53 | 11°24 | 12° 0 | 6°14 | 22° 4 | T 24 | |
| W25 | 14 14 29 | 5°27'51 | 2♉ 7 | 22°10 | 19°25 | 4°37 | 14°56 | 23°52 | 0°36 | 21°55 | 25°54 | 11°24 | 11°56 | 6°20 | 22° 5 | W25 | |
| T 26 | 14 18 25 | 6°26'34 | 15°44 | 23°50 | 20°31 | 5°22 | 15°10 | 23°55 | 0°37 | 21°55 | 25°56 | 11°25 | 11°53 | 6°27 | 22° 5 | T 26 | |
| F 27 | 14 22 22 | 7°25'16 | 29°34 | 25°25 | 21°36 | 6° 7 | 15°24 | 23°59 | 0°37 | 21°55 | 25°57 | 11°25 | 11°50 | 6°34 | 22° 6 | F 27 | |
| S 28 | 14 26 18 | 8°23'56 | 13♋38 | 26°57 | 22°41 | 6°53 | 15°39 | 24° 2 | 0°37 | 21°54 | 25°59 | 11°R25 | 11°47 | 6°40 | 22° 6 | S 28 | |
| S 29 | 14 30 15 | 9°22'34 | 27°54 | 28°24 | 23°46 | 7°38 | 15°53 | 24° 6 | 0°38 | 21°54 | 26° 0 | 11°25 | 11°44 | 6°47 | 22° 7 | S 29 | |
| M30 | 14 34 11 | 10♉21'11 | 12♋19 | 29♉47 | 24♈50 | 8♉23 | 16♉ 7 | 24♋ 9 | 0♋38 | 21♑54 | 26°Y 1 | 11♈25 | 11♉41 | 6♎54 | 22♑ 8 | M30 | |

Delta T = 19m00s

ASTRODIENST EPHEMERIS for the year 2581
geocentric

MAY 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| T 1 | 14 38 8 | 11♁19'46 | 26♁50 | 1♁ 4 | 25♁54 | 9♁ 8 | 16♁22 | 24♁12 | 0♁38 | 21°R54 | 26°V 3 | 11°D25 | 11♁37 | 7♁ 1 | 22°Q 9 | T 1 | | | | | | | | |
| W 2 | 14 42 4 | 12°18'19 | 11°V22 | 2°17 | 26°58 | 9°53 | 16°36 | 24°15 | 0°38 | 21°D54 | 26° 4 | 11♁25 | 11°34 | 7° 7 | 22°10 | W 2 | | | | | | | | |
| T 3 | 14 46 1 | 13°16'51 | 25°48 | 3°25 | 28° 2 | 10°39 | 16°50 | 24°19 | 0°38 | 21°Q54 | 26° 6 | 11°25 | 11°31 | 7°14 | 22°11 | T 3 | | | | | | | | |
| F 4 | 14 49 58 | 14°15'21 | 10♁ 5 | 4°28 | 29° 5 | 11°24 | 17° 5 | 24°22 | 0°R38 | 21°54 | 26° 7 | 11°R25 | 11°28 | 7°21 | 22°12 | F 4 | | | | | | | | |
| S 5 | 14 53 54 | 15°13'49 | 24° 7 | 5°26 | 0♁ 9 | 12° 9 | 17°19 | 24°24 | 0°38 | 21°54 | 26° 8 | 11°25 | 11°25 | 7°27 | 22°13 | S 5 | | | | | | | | |
| S 6 | 14 57 51 | 16°12'16 | 7♁51 | 6°18 | 1°11 | 12°53 | 17°34 | 24°27 | 0°38 | 21°54 | 26°10 | 11°25 | 11°21 | 7°34 | 22°15 | S 6 | | | | | | | | |
| M 7 | 15 1 47 | 17°10'40 | 21°13 | 7° 6 | 2°14 | 13°38 | 17°48 | 24°30 | 0°38 | 21°55 | 26°11 | 11°24 | 11°18 | 7°41 | 22°16 | M 7 | | | | | | | | |
| T 8 | 15 5 44 | 18° 9'03 | 4♁15 | 7°47 | 3°16 | 14°23 | 18° 2 | 24°33 | 0°38 | 21°55 | 26°12 | 11°23 | 11°15 | 7°48 | 22°18 | T 8 | | | | | | | | |
| W 9 | 15 9 40 | 19° 7'23 | 16°55 | 8°24 | 4°18 | 15° 8 | 18°17 | 24°35 | 0°38 | 21°55 | 26°14 | 11°22 | 11°12 | 7°54 | 22°19 | W 9 | | | | | | | | |
| T 10 | 15 13 37 | 20° 5'42 | 29°18 | 8°55 | 5°20 | 15°53 | 18°31 | 24°37 | 0°38 | 21°55 | 26°15 | 11°21 | 11° 9 | 8° 1 | 22°21 | T 10 | | | | | | | | |
| F 11 | 15 17 34 | 21° 3'58 | 11♁27 | 9°20 | 6°21 | 16°37 | 18°45 | 24°40 | 0°37 | 21°56 | 26°16 | 11°21 | 11° 6 | 8° 8 | 22°23 | F 11 | | | | | | | | |
| S 12 | 15 21 30 | 22° 2'12 | 23°26 | 9°40 | 7°22 | 17°22 | 19° 0 | 24°42 | 0°37 | 21°56 | 26°18 | 11°D21 | 11° 2 | 8°14 | 22°25 | S 12 | | | | | | | | |
| S 13 | 15 25 27 | 23° 0'25 | 5♁19 | 9°55 | 8°22 | 18° 7 | 19°14 | 24°44 | 0°37 | 21°56 | 26°19 | 11°21 | 10°59 | 8°21 | 22°27 | S 13 | | | | | | | | |
| M14 | 15 29 23 | 23°58'35 | 17°11 | 10° 4 | 9°22 | 18°51 | 19°28 | 24°46 | 0°36 | 21°57 | 26°20 | 11°22 | 10°56 | 8°28 | 22°30 | M14 | | | | | | | | |
| T 15 | 15 33 20 | 24°56'44 | 29° 7 | 10°R 8 | 10°22 | 19°36 | 19°43 | 24°48 | 0°36 | 21°57 | 26°22 | 11°23 | 10°53 | 8°34 | 22°32 | T 15 | | | | | | | | |
| W16 | 15 37 16 | 25°54'50 | 11♁11 | 10° 7 | 11°22 | 20°20 | 19°57 | 24°50 | 0°35 | 21°57 | 26°23 | 11°24 | 10°50 | 8°41 | 22°34 | W16 | | | | | | | | |
| T 17 | 15 41 13 | 26°52'55 | 23°26 | 10° 0 | 12°20 | 21° 4 | 20°11 | 24°52 | 0°34 | 21°58 | 26°24 | 11°25 | 10°47 | 8°48 | 22°37 | T 17 | | | | | | | | |
| F 18 | 15 45 9 | 27°50'58 | 5♁55 | 9°49 | 13°19 | 21°49 | 20°26 | 24°54 | 0°34 | 21°58 | 26°25 | 11°R26 | 10°43 | 8°55 | 22°40 | F 18 | | | | | | | | |
| S 19 | 15 49 6 | 28°48'59 | 18°41 | 9°34 | 14°17 | 22°33 | 20°40 | 24°55 | 0°33 | 21°59 | 26°27 | 11°26 | 10°40 | 9° 1 | 22°42 | S 19 | | | | | | | | |
| S 20 | 15 53 3 | 29°46'59 | 1♁43 | 9°14 | 15°15 | 23°17 | 20°54 | 24°57 | 0°32 | 22° 0 | 26°28 | 11°25 | 10°37 | 9° 8 | 22°45 | S 20 | | | | | | | | |
| M21 | 15 56 59 | 0♁44'57 | 15° 2 | 8°51 | 16°12 | 24° 1 | 21° 9 | 24°58 | 0°32 | 22° 0 | 26°29 | 11°23 | 10°34 | 9°15 | 22°48 | M21 | | | | | | | | |
| T 22 | 16 0 56 | 1°42'54 | 28°37 | 8°24 | 17° 8 | 24°45 | 21°23 | 24°59 | 0°31 | 22° 1 | 26°30 | 11°21 | 10°31 | 9°21 | 22°51 | T 22 | | | | | | | | |
| W23 | 16 4 52 | 2°40'50 | 12♁24 | 7°55 | 18° 4 | 25°29 | 21°37 | 25° 1 | 0°30 | 22° 1 | 26°31 | 11°18 | 10°27 | 9°28 | 22°54 | W23 | | | | | | | | |
| T 24 | 16 8 49 | 3°38'44 | 26°22 | 7°23 | 19° 0 | 26°13 | 21°51 | 25° 2 | 0°29 | 22° 2 | 26°33 | 11°15 | 10°24 | 9°35 | 22°57 | T 24 | | | | | | | | |
| F 25 | 16 12 45 | 4°36'37 | 10♁28 | 6°49 | 19°55 | 26°57 | 22° 5 | 25° 3 | 0°28 | 22° 3 | 26°34 | 11°12 | 10°21 | 9°42 | 23° 1 | F 25 | | | | | | | | |
| S 26 | 16 16 42 | 5°34'28 | 24°38 | 6°15 | 20°49 | 27°41 | 22°20 | 25° 4 | 0°27 | 22° 4 | 26°35 | 11°11 | 10°18 | 9°48 | 23° 4 | S 26 | | | | | | | | |
| S 27 | 16 20 38 | 6°32'19 | 8♁51 | 5°40 | 21°43 | 28°25 | 22°34 | 25° 4 | 0°26 | 22° 4 | 26°36 | 11°D11 | 10°15 | 9°55 | 23° 8 | S 27 | | | | | | | | |
| M28 | 16 24 35 | 7°30'08 | 23° 3 | 5° 5 | 22°37 | 29° 9 | 22°48 | 25° 5 | 0°25 | 22° 5 | 26°37 | 11°11 | 10°12 | 10° 2 | 23°11 | M28 | | | | | | | | |
| T 29 | 16 28 32 | 8°27'56 | 7°V13 | 4°31 | 23°29 | 29°53 | 23° 2 | 25° 6 | 0°24 | 22° 6 | 26°38 | 11°13 | 10° 8 | 10° 8 | 23°15 | T 29 | | | | | | | | |
| W30 | 16 32 28 | 9°25'43 | 21°19 | 3°58 | 24°22 | 0♁36 | 23°16 | 25° 6 | 0°22 | 22° 7 | 26°40 | 11°14 | 10° 5 | 10°15 | 23°18 | W30 | | | | | | | | |
| T 31 | 16 36 25 | 10♁23'29 | 5♁18 | 3♁27 | 25♁13 | 1♁20 | 23♁30 | 25♁ 7 | 0♁21 | 22°Q 8 | 26°V41 | 11°R15 | 10♁ 2 | 10♁22 | 23°Q22 | T 31 | | | | | | | | |

Delta T = 19m00s

JUNE 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|------|-------|--------|------|---|---|---|---|---|---|---|-----|
| F 1 | 16 40 21 | 11♁21'14 | 19♁ 9 | 2°R58 | 26♁ 4 | 2♁ 3 | 23♁44 | 25♁ 7 | 0°R20 | 22°Q 9 | 26°V42 | 11°R15 | 9♁59 | 10♁28 | 23°Q26 | F 1 | | | | | | | | |
| S 2 | 16 44 18 | 12°18'58 | 2♁48 | 2♁32 | 26°54 | 2°47 | 23°58 | 25° 7 | 0♁19 | 22°10 | 26°43 | 11♁13 | 9°56 | 10°35 | 23°30 | S 2 | | | | | | | | |
| S 3 | 16 48 14 | 13°16'41 | 16°13 | 2°10 | 27°43 | 3°30 | 24°12 | 25° 7 | 0°17 | 22°11 | 26°44 | 11°10 | 9°53 | 10°42 | 23°34 | S 3 | | | | | | | | |
| M 4 | 16 52 11 | 14°14'22 | 29°22 | 1°51 | 28°32 | 4°14 | 24°26 | 25°R 7 | 0°16 | 22°12 | 26°45 | 11° 6 | 9°49 | 10°49 | 23°39 | M 4 | | | | | | | | |
| T 5 | 16 56 7 | 15°12'02 | 12♁16 | 1°36 | 29°20 | 4°57 | 24°40 | 25° 7 | 0°14 | 22°13 | 26°46 | 11° 0 | 9°46 | 10°55 | 23°43 | T 5 | | | | | | | | |
| W 6 | 17 0 4 | 16° 9'41 | 24°52 | 1°24 | 0♁ 7 | 5°41 | 24°54 | 25° 7 | 0°13 | 22°14 | 26°47 | 10°54 | 9°43 | 11° 2 | 23°47 | W 6 | | | | | | | | |
| T 7 | 17 4 1 | 17° 7'19 | 7♁13 | 1°18 | 0°53 | 6°24 | 25° 7 | 25° 7 | 0°11 | 22°15 | 26°48 | 10°49 | 9°40 | 11° 9 | 23°52 | T 7 | | | | | | | | |
| F 8 | 17 7 57 | 18° 4'55 | 19°22 | 1°D15 | 1°38 | 7° 7 | 25°21 | 25° 7 | 0°10 | 22°16 | 26°49 | 10°44 | 9°37 | 11°15 | 23°56 | F 8 | | | | | | | | |
| S 9 | 17 11 54 | 19° 2'29 | 1♁20 | 1°17 | 2°23 | 7°50 | 25°35 | 25° 6 | 0° 8 | 22°18 | 26°50 | 10°41 | 9°33 | 11°22 | 24° 1 | S 9 | | | | | | | | |
| S 10 | 17 15 50 | 20° 0'03 | 13°13 | 1°23 | 3° 6 | 8°33 | 25°49 | 25° 5 | 0° 7 | 22°19 | 26°51 | 10°39 | 9°30 | 11°29 | 24° 5 | S 10 | | | | | | | | |
| M11 | 17 19 47 | 20°57'35 | 25° 5 | 1°34 | 3°48 | 9°16 | 26° 2 | 25° 5 | 0° 5 | 22°20 | 26°52 | 10°D39 | 9°27 | 11°36 | 24°10 | M11 | | | | | | | | |
| T 12 | 17 23 43 | 21°55'05 | 7♁ 1 | 1°49 | 4°30 | 9°59 | 26°16 | 25° 4 | 0° 3 | 22°21 | 26°53 | 10°40 | 9°24 | 11°42 | 24°15 | T 12 | | | | | | | | |
| W13 | 17 27 40 | 22°52'35 | 19° 5 | 2° 9 | 5°10 | 10°42 | 26°29 | 25° 3 | 0° 2 | 22°23 | 26°54 | 10°41 | 9°21 | 11°49 | 24°20 | W13 | | | | | | | | |
| T 14 | 17 31 36 | 23°50'03 | 1♁23 | 2°33 | 5°49 | 11°25 | 26°43 | 25° 2 | 29♁59 | 22°24 | 26°54 | 10°43 | 9°18 | 11°56 | 24°25 | T 14 | | | | | | | | |
| F 15 | 17 35 33 | 24°47'30 | 13°59 | 3° 2 | 6°27 | 12° 8 | 26°56 | 25° 1 | 29°58 | 22°25 | 26°55 | 10°R43 | 9°14 | 12° 2 | 24°30 | F 15 | | | | | | | | |
| S 16 | 17 39 30 | 25°44'56 | 26°56 | 3°34 | 7° 4 | 12°51 | 27°10 | 25° 0 | 29°56 | 22°27 | 26°56 | 10°42 | 9°11 | 12° 9 | 24°35 | S 16 | | | | | | | | |
| S 17 | 17 43 26 | 26°42'21 | 10♁15 | 4°11 | 7°40 | 13°33 | 27°23 | 24°59 | 29°54 | 22°28 | 26°57 | 10°38 | 9° 8 | 12°16 | 24°40 | S 17 | | | | | | | | |
| M18 | 17 47 23 | 27°39'45 | 23°55 | 4°52 | 8°14 | 14°16 | 27°36 | 24°58 | 29°52 | 22°29 | 26°58 | 10°33 | 9° 5 | 12°22 | 24°45 | M18 | | | | | | | | |
| T 19 | 17 51 19 | 28°37'09 | 7♁55 | 5°37 | 8°47 | 14°59 | 27°50 | 24°56 | 29°50 | 22°31 | 26°59 | 10°27 | 9° 2 | 12°29 | 24°51 | T 19 | | | | | | | | |
| W20 | 17 55 16 | 29°34'31 | 22°11 | 6°25 | 9°19 | 15°41 | 28° 3 | 24°55 | 29°49 | 22°32 | 26°59 | 10°19 | 8°59 | 12°36 | 24°56 | W20 | | | | | | | | |
| T 21 | 17 59 12 | 0♁31'53 | 6♁36 | 7°18 | 9°49 | 16°24 | 28°16 | 24°53 | 29°47 | 22°34 | 27° 0 | 10°11 | 8°55 | 12°43 | 25° 2 | T 21 | | | | | | | | |
| F 22 | 18 3 9 | 1°29'14 | 21° 5 | 8°14 | 10°17 | 17° 6 | 28°29 | 24°51 | 29°45 | 22°35 | 27° 1 | 10° 5 | 8°52 | 12°49 | 25° 7 | F 22 | | | | | | | | |
| S 23 | 18 7 6 | 2°26'35 | 5♁32 | 9°14 | 10°44 | 17°48 | 28°42 | 24°50 | 29°42 | 22°37 | 27° 2 | 10° 0 | 8°49 | 12°56 | 25°13 | S 23 | | | | | | | | |
| S 24 | 18 11 2 | 3°23'55 | 19°52 | 10°17 | 11°10 | 18°31 | 28°55 | 24°48 | 29°40 | 22°38 | 27° 2 | 9°58 | 8°46 | 13° 3 | 25°18 | S 24 | | | | | | | | |
| M25 | 18 14 59 | 4°21'15 | 4°V 3 | 11°24 | 11°34 | 19°13 | 29° 8 | 24°46 | 29°38 | 22°40 | 27° 3 | 9°D57 | 8°43 | 13° 9 | 25°24 | M25 | | | | | | | | |
| T 26 | 18 18 55 | 5°18'35 | 18° 3 | 12°35 | 11°56 | 19°55 | 29°21 | 24°44 | 29°36 | 22°42 | 27° 4 | 9°57 | 8°39 | 13°16 | 25°30 | T 26 | | | | | | | | |
| W27 | 18 22 52 | 6°15'54 | 1♁52 | 13°49 | 12°16 | 20°37 | 29°34 | 24°42 | 29°34 | 22°43 | 27° 4 | 9°58 | 8°36 | 13°23 | 25°36 | W27 | | | | | | | | |
| T 28 | 18 26 48 | 7°13'14 | 15°29 | 15° 6 | 12°35 | 21°20 | 29°47 | 24°40 | 29°32 | 22°45 | 27° 5 | 9°R58 | 8°33 | 13°29 | 25°42 | T 28 | | | | | | | | |
| F 29 | 18 30 45 | 8°10'33 | 28°55 | 16°27 | 12°51 | 22° 2 | 29°59 | 24°37 | 29°30 | 22°47 | 27° 5 | 9°56 | 8°30 | 13°36 | 25°48 | F 29 | | | | | | | | |
| S 30 | 18 34 41 | 9♁ 7'51 | 12♁10 | 17♁51 | 13♁ 6 | 22♁44 | 0♁12 | 24♁35 | 29♁28 | 22♁48 | 27°V 6 | 9♁53 | 8♁27 | 13♁43 | 25♁54 | S 30 | | | | | | | | |

Delta T = 19m01s

ASTRODIENST EPHEMERIS for the year 2581
geocentric

JULY 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|----------|-------|-------|--------|-------|------|--------|--------|-------|--------|-------|------|-------|-------|------|---|-----|
| S 1 | 18 38 38 | 10♄ 5'10 | 25♂13 | 19♂18 | 13♂19 | 23♂26 | 0♂25 | 24°R32 | 29°R25 | 22♂50 | 27♂ 7 | 9°R46 | 8♂24 | 13♂50 | 26♂ 0 | S 1 | | |
| M 2 | 18 42 35 | 11° 2'28 | 8♄ 4 | 20°48 | 13°29 | 24° 8 | 0°37 | 24°R30 | 29°R23 | 22°52 | 27° 7 | 9°R37 | 8°20 | 13°56 | 26° 6 | M 2 | | |
| T 3 | 18 46 31 | 11°59'45 | 20°43 | 22°22 | 13°38 | 24°49 | 0°50 | 24°27 | 29°21 | 22°54 | 27° 8 | 9°27 | 8°17 | 14° 3 | 26°12 | T 3 | | |
| W 4 | 18 50 28 | 12°57'02 | 3♂10 | 23°59 | 13°44 | 25°31 | 1° 2 | 24°25 | 29°19 | 22°55 | 27° 8 | 9°15 | 8°14 | 14°10 | 26°19 | W 4 | | |
| T 5 | 18 54 24 | 13°54'19 | 15°24 | 25°39 | 13°48 | 26°13 | 1°14 | 24°22 | 29°16 | 22°57 | 27° 9 | 9° 4 | 8°11 | 14°16 | 26°25 | T 5 | | |
| F 6 | 18 58 21 | 14°51'35 | 27°28 | 27°22 | 13°R50 | 26°55 | 1°27 | 24°19 | 29°14 | 22°59 | 27° 9 | 8°55 | 8° 8 | 14°23 | 26°31 | F 6 | | |
| S 7 | 19 2 17 | 15°48'51 | 9♂24 | 29° 8 | 13°50 | 27°36 | 1°39 | 24°16 | 29°12 | 23° 1 | 27° 9 | 8°47 | 8° 5 | 14°30 | 26°38 | S 7 | | |
| S 8 | 19 6 14 | 16°46'06 | 21°15 | 0♄57 | 13°47 | 28°18 | 1°51 | 24°13 | 29° 9 | 23° 3 | 27°10 | 8°41 | 8° 1 | 14°36 | 26°44 | S 8 | | |
| M 9 | 19 10 10 | 17°43'21 | 3♂ 5 | 2°48 | 13°41 | 29° 0 | 2° 3 | 24°10 | 29° 7 | 23° 4 | 27°10 | 8°38 | 7°58 | 14°43 | 26°51 | M 9 | | |
| T 10 | 19 14 7 | 18°40'35 | 14°59 | 4°43 | 13°34 | 29°41 | 2°15 | 24° 7 | 29° 5 | 23° 6 | 27°11 | 8°D37 | 7°55 | 14°50 | 26°57 | T 10 | | |
| W11 | 19 18 4 | 19°37'49 | 27° 2 | 6°40 | 13°24 | 0♄22 | 2°27 | 24° 3 | 29° 2 | 23° 8 | 27°11 | 8°37 | 7°52 | 14°56 | 27° 4 | W11 | | |
| T 12 | 19 22 0 | 20°35'03 | 9♂19 | 8°39 | 13°11 | 1° 4 | 2°38 | 24° 0 | 29° 0 | 23°10 | 27°11 | 8°R38 | 7°49 | 15° 3 | 27°11 | T 12 | | |
| F 13 | 19 25 57 | 21°32'16 | 21°56 | 10°41 | 12°56 | 1°45 | 2°50 | 23°57 | 28°57 | 23°12 | 27°12 | 8°37 | 7°45 | 15°10 | 27°18 | F 13 | | |
| S 14 | 19 29 53 | 22°29'29 | 4♂57 | 12°44 | 12°39 | 2°26 | 3° 2 | 23°53 | 28°55 | 23°14 | 27°12 | 8°35 | 7°42 | 15°17 | 27°24 | S 14 | | |
| S 15 | 19 33 50 | 23°26'42 | 18°24 | 14°50 | 12°20 | 3° 8 | 3°13 | 23°50 | 28°53 | 23°16 | 27°12 | 8°30 | 7°39 | 15°23 | 27°31 | S 15 | | |
| M16 | 19 37 46 | 24°23'55 | 2♄17 | 16°57 | 11°58 | 3°49 | 3°25 | 23°46 | 28°50 | 23°18 | 27°12 | 8°22 | 7°36 | 15°30 | 27°38 | M16 | | |
| T 17 | 19 41 43 | 25°21'07 | 16°36 | 19° 4 | 11°34 | 4°30 | 3°36 | 23°43 | 28°48 | 23°20 | 27°13 | 8°13 | 7°33 | 15°37 | 27°45 | T 17 | | |
| W18 | 19 45 39 | 26°18'20 | 1♂14 | 21°13 | 11° 8 | 5°11 | 3°47 | 23°39 | 28°45 | 23°22 | 27°13 | 8° 2 | 7°30 | 15°43 | 27°52 | W18 | | |
| T 19 | 19 49 36 | 27°15'33 | 16° 5 | 23°23 | 10°40 | 5°52 | 3°58 | 23°35 | 28°43 | 23°24 | 27°13 | 7°51 | 7°26 | 15°50 | 27°59 | T 19 | | |
| F 20 | 19 53 33 | 28°12'46 | 0♄58 | 25°32 | 10°10 | 6°33 | 4° 9 | 23°32 | 28°41 | 23°26 | 27°13 | 7°42 | 7°23 | 15°57 | 28° 6 | F 20 | | |
| S 21 | 19 57 29 | 29° 9'59 | 15°47 | 27°42 | 9°38 | 7°14 | 4°20 | 23°28 | 28°38 | 23°28 | 27°13 | 7°35 | 7°20 | 16° 3 | 28°13 | S 21 | | |
| S 22 | 20 1 26 | 0♂ 7'12 | 0♂23 | 29°51 | 9° 5 | 7°55 | 4°31 | 23°24 | 28°36 | 23°30 | 27°13 | 7°30 | 7°17 | 16°10 | 28°20 | S 22 | | |
| M23 | 20 5 22 | 1° 4'26 | 14°43 | 2♂ 0 | 8°31 | 8°35 | 4°42 | 23°20 | 28°33 | 23°32 | 27°14 | 7°28 | 7°14 | 16°17 | 28°27 | M23 | | |
| T 24 | 20 9 19 | 2° 1'41 | 28°45 | 4° 8 | 7°56 | 9°16 | 4°53 | 23°16 | 28°31 | 23°34 | 27°14 | 7°27 | 7°11 | 16°24 | 28°34 | T 24 | | |
| W25 | 20 13 15 | 2°58'56 | 12♄27 | 6°15 | 7°20 | 9°57 | 5° 3 | 23°12 | 28°28 | 23°37 | 27°14 | 7°27 | 7° 7 | 16°30 | 28°42 | W25 | | |
| T 26 | 20 17 12 | 3°56'12 | 25°53 | 8°21 | 6°43 | 10°38 | 5°14 | 23° 8 | 28°26 | 23°39 | 27°14 | 7°26 | 7° 4 | 16°37 | 28°49 | T 26 | | |
| F 27 | 20 21 8 | 4°53'29 | 9♂ 2 | 10°26 | 6° 5 | 11°18 | 5°24 | 23° 4 | 28°24 | 23°41 | 27°R14 | 7°24 | 7° 1 | 16°44 | 28°56 | F 27 | | |
| S 28 | 20 25 5 | 5°50'46 | 21°59 | 12°29 | 5°28 | 11°59 | 5°34 | 23° 0 | 28°21 | 23°43 | 27°14 | 7°19 | 6°58 | 16°50 | 29° 4 | S 28 | | |
| S 29 | 20 29 2 | 6°48'04 | 4♄43 | 14°31 | 4°51 | 12°39 | 5°45 | 22°56 | 28°19 | 23°45 | 27°14 | 7°11 | 6°55 | 16°57 | 29°11 | S 29 | | |
| M30 | 20 32 58 | 7°45'23 | 17°16 | 16°32 | 4°14 | 13°20 | 5°55 | 22°51 | 28°17 | 23°47 | 27°14 | 7° 0 | 6°51 | 17° 4 | 29°18 | M30 | | |
| T 31 | 20 36 55 | 8♂42'42 | 29♄40 | 18♂30 | 3♂37 | 14♄ 0 | 6♂ 5 | 22°R47 | 28°R14 | 23♂49 | 27♂14 | 6♄47 | 6♄48 | 17♂10 | 29♂26 | T 31 | | |

Delta T = 19m01s

AUGUST 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|--------|--------|-------|--------|-------|------|-------|-------|------|---|-----|
| W 1 | 20 40 51 | 9♂40'02 | 11♂53 | 20♂28 | 3°R 1 | 14♄41 | 6♂14 | 22°R43 | 28°R12 | 23♂51 | 27°R13 | 6°R34 | 6♄45 | 17♂17 | 29♂33 | W 1 | | |
| T 2 | 20 44 48 | 10°37'22 | 23°59 | 22°23 | 2♂26 | 15°21 | 6°24 | 22°R39 | 28°R 9 | 23°54 | 27°R13 | 6♄20 | 6°42 | 17°24 | 29°41 | T 2 | | |
| F 3 | 20 48 44 | 11°34'43 | 5♂57 | 24°17 | 1°53 | 16° 1 | 6°34 | 22°34 | 28° 7 | 23°56 | 27°13 | 6° 8 | 6°39 | 17°30 | 29°48 | F 3 | | |
| S 4 | 20 52 41 | 12°32'04 | 17°48 | 26° 9 | 1°20 | 16°41 | 6°43 | 22°30 | 28° 5 | 23°58 | 27°13 | 5°58 | 6°36 | 17°37 | 29°56 | S 4 | | |
| S 5 | 20 56 37 | 13°29'25 | 29°37 | 27°59 | 0°49 | 17°21 | 6°53 | 22°26 | 28° 2 | 24° 0 | 27°13 | 5°51 | 6°32 | 17°44 | 0♂ 3 | S 5 | | |
| M 6 | 21 0 34 | 14°26'47 | 11♂26 | 29°47 | 0°20 | 18° 2 | 7° 2 | 22°21 | 28° 0 | 24° 2 | 27°13 | 5°47 | 6°29 | 17°50 | 0°11 | M 6 | | |
| T 7 | 21 4 31 | 15°24'10 | 23°18 | 1♂34 | 29♄53 | 18°42 | 7°11 | 22°17 | 27°58 | 24° 5 | 27°12 | 5°45 | 6°26 | 17°57 | 0°18 | T 7 | | |
| W 8 | 21 8 27 | 16°21'33 | 5♂19 | 3°19 | 29°28 | 19°22 | 7°20 | 22°12 | 27°56 | 24° 7 | 27°12 | 5°D44 | 6°23 | 18° 4 | 0°26 | W 8 | | |
| T 9 | 21 12 24 | 17°18'56 | 17°34 | 5° 3 | 29° 5 | 20° 2 | 7°29 | 22° 8 | 27°53 | 24° 9 | 27°12 | 5°R44 | 6°20 | 18°11 | 0°34 | T 9 | | |
| F 10 | 21 16 20 | 18°16'21 | 0♄ 9 | 6°45 | 28°44 | 20°41 | 7°37 | 22° 3 | 27°51 | 24°11 | 27°12 | 5°44 | 6°17 | 18°17 | 0°41 | F 10 | | |
| S 11 | 21 20 17 | 19°13'45 | 13° 7 | 8°25 | 28°25 | 21°21 | 7°46 | 21°59 | 27°49 | 24°13 | 27°11 | 5°42 | 6°13 | 18°24 | 0°49 | S 11 | | |
| S 12 | 21 24 13 | 20°11'11 | 26°33 | 10° 3 | 28° 8 | 22° 1 | 7°55 | 21°55 | 27°47 | 24°16 | 27°11 | 5°38 | 6°10 | 18°31 | 0°57 | S 12 | | |
| M13 | 21 28 10 | 21° 8'37 | 10♄29 | 11°40 | 27°54 | 22°41 | 8° 3 | 21°50 | 27°45 | 24°18 | 27°11 | 5°31 | 6° 7 | 18°37 | 1° 4 | M13 | | |
| T 14 | 21 32 7 | 22° 6'03 | 24°54 | 13°15 | 27°43 | 23°20 | 8°11 | 21°46 | 27°43 | 24°20 | 27°10 | 5°22 | 6° 4 | 18°44 | 1°12 | T 14 | | |
| W15 | 21 36 3 | 23° 3'31 | 9♂42 | 14°48 | 27°33 | 24° 0 | 8°19 | 21°41 | 27°40 | 24°22 | 27°10 | 5°12 | 6° 1 | 18°51 | 1°20 | W15 | | |
| T 16 | 21 40 0 | 24° 0'59 | 24°48 | 16°20 | 27°26 | 24°40 | 8°27 | 21°37 | 27°38 | 24°25 | 27° 9 | 5° 2 | 5°57 | 18°57 | 1°27 | T 16 | | |
| F 17 | 21 43 56 | 24°58'28 | 10♄ 0 | 17°50 | 27°22 | 25°19 | 8°35 | 21°32 | 27°36 | 24°27 | 27° 9 | 4°53 | 5°54 | 19° 4 | 1°35 | F 17 | | |
| S 18 | 21 47 53 | 25°55'59 | 25° 7 | 19°19 | 27°D20 | 25°59 | 8°43 | 21°28 | 27°34 | 24°29 | 27° 9 | 4°46 | 5°51 | 19°11 | 1°43 | S 18 | | |
| S 19 | 21 51 49 | 26°53'30 | 10♂ 2 | 20°45 | 27°20 | 26°38 | 8°50 | 21°23 | 27°32 | 24°31 | 27° 8 | 4°41 | 5°48 | 19°17 | 1°51 | S 19 | | |
| M20 | 21 55 46 | 27°51'03 | 24°37 | 22°10 | 27°22 | 27°18 | 8°57 | 21°19 | 27°30 | 24°33 | 27° 8 | 4°39 | 5°45 | 19°24 | 1°59 | M20 | | |
| T 21 | 21 59 42 | 28°48'37 | 8♄48 | 23°34 | 27°27 | 27°57 | 9° 5 | 21°14 | 27°28 | 24°36 | 27° 7 | 4°D39 | 5°42 | 19°31 | 2° 6 | T 21 | | |
| W22 | 22 3 39 | 29°46'13 | 22°35 | 24°55 | 27°34 | 28°36 | 9°12 | 21°10 | 27°26 | 24°38 | 27° 7 | 4°40 | 5°38 | 19°37 | 2°14 | W22 | | |
| T 23 | 22 7 35 | 0♂43'50 | 5♂59 | 26°15 | 27°43 | 29°15 | 9°19 | 21° 6 | 27°24 | 24°40 | 27° 6 | 4°R40 | 5°35 | 19°44 | 2°22 | T 23 | | |
| F 24 | 22 11 32 | 1°41'29 | 19° 2 | 27°32 | 27°55 | 29°55 | 9°25 | 21° 1 | 27°23 | 24°42 | 27° 6 | 4°38 | 5°32 | 19°51 | 2°30 | F 24 | | |
| S 25 | 22 15 29 | 2°39'09 | 1♄49 | 28°48 | 28° 8 | 0♂34 | 9°32 | 20°57 | 27°21 | 24°45 | 27° 5 | 4°35 | 5°29 | 19°58 | 2°38 | S 25 | | |
| S 26 | 22 19 25 | 3°36'51 | 14°20 | 0♄ 2 | 28°23 | 1°13 | 9°39 | 20°53 | 27°19 | 24°47 | 27° 4 | 4°28 | 5°26 | 20° 4 | 2°45 | S 26 | | |
| M27 | 22 23 22 | 4°34'34 | 26°41 | 1°14 | 28°41 | 1°52 | 9°45 | 20°48 | 27°17 | 24°49 | 27° 4 | 4°20 | 5°23 | 20°11 | 2°53 | M27 | | |
| T 28 | 22 27 18 | 5°32'18 | 8♂51 | 2°24 | 29° 0 | 2°31 | 9°51 | 20°44 | 27°15 | 24°51 | 27° 3 | 4°10 | 5°19 | 20°18 | 3° 1 | T 28 | | |
| W29 | 22 31 15 | 6°30'04 | 20°54 | 3°32 | 29°21 | 3°10 | 9°57 | 20°40 | 27°14 | 24°53 | 27° 2 | 3°59 | 5°16 | 20°24 | 3° 9 | W29 | | |
| T 30 | 22 35 11 | 7°27'51 | 2♂51 | 4°37 | 29°44 | 3°49 | 10° 3 | 20°36 | 27°12 | 24°56 | 27° 2 | 3°48 | 5°13 | 20°31 | 3°17 | T 30 | | |
| F 31 | 22 39 8 | 8♂25'40 | 14♂43 | 5♄40 | 0♂ 8 | 4♂28 | 10♂ 8 | 20°R32 | 27°R10 | 24♂58 | 27♂ 1 | 3♄39 | 5♄10 | 20♂38 | 3♂24 | F 31 | | |

Delta T = 19m01s

ASTRODIENST EPHEMERIS for the year 2581
geocentric

SEPTEMBER 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|--------|--------|-------|--------|-------|------|-------|------|------|---|---|---|---|---|---|---|-----|
| S 1 | 22 43 4 | 9♎23'30 | 26♎33 | 6♋40 | 0♊34 | 5♏ 6 | 10♉14 | 20°R27 | 27°R 9 | 25♌ 0 | 27°R 0 | 3°R31 | 5♌ 7 | 20♎44 | 3♎32 | S 1 | | | | | | | | |
| S 2 | 22 47 1 | 10°21'21 | 8♋21 | 7°38 | 1° 2 | 5°45 | 10°19 | 20°≈23 | 27♌ 7 | 25° 2 | 27°R 0 | 3♌25 | 5° 3 | 20°51 | 3°40 | S 2 | | | | | | | | |
| M 3 | 22 50 58 | 11°19'14 | 20°11 | 8°33 | 1°31 | 6°24 | 10°24 | 20°19 | 27° 6 | 25° 4 | 26°59 | 3°22 | 5° 0 | 20°58 | 3°48 | M 3 | | | | | | | | |
| T 4 | 22 54 54 | 12°17'08 | 2♌ 5 | 9°25 | 2° 2 | 7° 2 | 10°29 | 20°15 | 27° 4 | 25° 6 | 26°58 | 3°D21 | 4°57 | 21° 4 | 3°56 | T 4 | | | | | | | | |
| W 5 | 22 58 51 | 13°15'03 | 14° 8 | 10°14 | 2°34 | 7°41 | 10°34 | 20°11 | 27° 3 | 25° 8 | 26°57 | 3°22 | 4°54 | 21°11 | 4° 3 | W 5 | | | | | | | | |
| T 6 | 23 2 47 | 14°13'00 | 26°23 | 11° 0 | 3° 7 | 8°20 | 10°39 | 20° 8 | 27° 1 | 25°11 | 26°57 | 3°23 | 4°51 | 21°18 | 4°11 | T 6 | | | | | | | | |
| F 7 | 23 6 44 | 15°10'57 | 8♌56 | 11°42 | 3°42 | 8°58 | 10°43 | 20° 4 | 27° 0 | 25°13 | 26°56 | 3°24 | 4°48 | 21°24 | 4°19 | F 7 | | | | | | | | |
| S 8 | 23 10 40 | 16° 8'57 | 21°51 | 12°21 | 4°18 | 9°37 | 10°47 | 20° 0 | 26°59 | 25°15 | 26°55 | 3°R24 | 4°44 | 21°31 | 4°27 | S 8 | | | | | | | | |
| S 9 | 23 14 37 | 17° 6'57 | 5♌11 | 12°55 | 4°55 | 10°15 | 10°52 | 19°56 | 26°57 | 25°17 | 26°54 | 3°22 | 4°41 | 21°38 | 4°34 | S 9 | | | | | | | | |
| M10 | 23 18 33 | 18° 4'59 | 19° 0 | 13°25 | 5°34 | 10°53 | 10°55 | 19°53 | 26°56 | 25°19 | 26°53 | 3°19 | 4°38 | 21°44 | 4°42 | M10 | | | | | | | | |
| T 11 | 23 22 30 | 19° 3'02 | 3≈18 | 13°51 | 6°13 | 11°32 | 10°59 | 19°49 | 26°55 | 25°21 | 26°52 | 3°14 | 4°35 | 21°51 | 4°50 | T 11 | | | | | | | | |
| W12 | 23 26 27 | 20° 1'06 | 18° 2 | 14°12 | 6°54 | 12°10 | 11° 3 | 19°45 | 26°54 | 25°23 | 26°52 | 3° 8 | 4°32 | 21°58 | 4°57 | W12 | | | | | | | | |
| T 13 | 23 30 23 | 20°59'12 | 3♌ 7 | 14°28 | 7°36 | 12°48 | 11° 6 | 19°42 | 26°53 | 25°25 | 26°51 | 3° 2 | 4°29 | 22° 5 | 5° 5 | T 13 | | | | | | | | |
| F 14 | 23 34 20 | 21°57'20 | 18°22 | 14°38 | 8°18 | 13°26 | 11° 9 | 19°38 | 26°52 | 25°27 | 26°50 | 2°56 | 4°25 | 22°11 | 5°13 | F 14 | | | | | | | | |
| S 15 | 23 38 16 | 22°55'28 | 3♌38 | 14°R43 | 9° 2 | 14° 4 | 11°12 | 19°35 | 26°51 | 25°29 | 26°49 | 2°52 | 4°22 | 22°18 | 5°20 | S 15 | | | | | | | | |
| S 16 | 23 42 13 | 23°53'39 | 18°44 | 14°41 | 9°47 | 14°42 | 11°15 | 19°32 | 26°50 | 25°31 | 26°48 | 2°49 | 4°19 | 22°25 | 5°28 | S 16 | | | | | | | | |
| M17 | 23 46 9 | 24°51'52 | 3♌32 | 14°34 | 10°33 | 15°20 | 11°18 | 19°29 | 26°49 | 25°33 | 26°47 | 2°D48 | 4°16 | 22°31 | 5°36 | M17 | | | | | | | | |
| T 18 | 23 50 6 | 25°50'06 | 17°56 | 14°20 | 11°19 | 15°58 | 11°20 | 19°25 | 26°48 | 25°35 | 26°46 | 2°49 | 4°13 | 22°38 | 5°43 | T 18 | | | | | | | | |
| W19 | 23 54 2 | 26°48'23 | 1♌53 | 14° 0 | 12° 7 | 16°36 | 11°22 | 19°22 | 26°47 | 25°37 | 26°45 | 2°50 | 4° 9 | 22°45 | 5°51 | W19 | | | | | | | | |
| T 20 | 23 57 59 | 27°46'42 | 15°24 | 13°33 | 12°55 | 17°14 | 11°24 | 19°19 | 26°46 | 25°39 | 26°44 | 2°52 | 4° 6 | 22°51 | 5°58 | T 20 | | | | | | | | |
| F 21 | 0 1 56 | 28°45'03 | 28°30 | 12°59 | 13°44 | 17°51 | 11°26 | 19°16 | 26°46 | 25°41 | 26°43 | 2°R52 | 4° 3 | 22°58 | 6° 6 | F 21 | | | | | | | | |
| S 22 | 0 5 52 | 29°43'26 | 11♌15 | 12°19 | 14°34 | 18°29 | 11°28 | 19°13 | 26°45 | 25°43 | 26°42 | 2°52 | 4° 0 | 23° 5 | 6°13 | S 22 | | | | | | | | |
| S 23 | 0 9 49 | 0♋41'51 | 23°42 | 11°33 | 15°24 | 19° 7 | 11°29 | 19°11 | 26°44 | 25°45 | 26°41 | 2°50 | 3°57 | 23°11 | 6°21 | S 23 | | | | | | | | |
| M24 | 0 13 45 | 1°40'18 | 5♌56 | 10°42 | 16°15 | 19°45 | 11°31 | 19° 8 | 26°44 | 25°47 | 26°40 | 2°46 | 3°54 | 23°18 | 6°28 | M24 | | | | | | | | |
| T 25 | 0 17 42 | 2°38'47 | 17°59 | 9°45 | 17° 7 | 20°22 | 11°32 | 19° 5 | 26°43 | 25°49 | 26°39 | 2°41 | 3°50 | 23°25 | 6°35 | T 25 | | | | | | | | |
| W26 | 0 21 38 | 3°37'18 | 29°54 | 8°46 | 18° 0 | 21° 0 | 11°33 | 19° 3 | 26°43 | 25°51 | 26°38 | 2°36 | 3°47 | 23°31 | 6°43 | W26 | | | | | | | | |
| T 27 | 0 25 35 | 4°35'51 | 11♎46 | 7°43 | 18°53 | 21°37 | 11°33 | 19° 0 | 26°42 | 25°52 | 26°37 | 2°31 | 3°44 | 23°38 | 6°50 | T 27 | | | | | | | | |
| F 28 | 0 29 31 | 5°34'26 | 23°35 | 6°39 | 19°47 | 22°14 | 11°34 | 18°58 | 26°42 | 25°54 | 26°36 | 2°27 | 3°41 | 23°45 | 6°57 | F 28 | | | | | | | | |
| S 29 | 0 33 28 | 6°33'03 | 5♋25 | 5°36 | 20°41 | 22°52 | 11°34 | 18°56 | 26°41 | 25°56 | 26°35 | 2°23 | 3°38 | 23°51 | 7° 5 | S 29 | | | | | | | | |
| S 30 | 0 37 25 | 7♋31'42 | 17♋16 | 4♋34 | 21♊36 | 23♊29 | 11°R34 | 18≈53 | 26♌41 | 25♌58 | 26°R34 | 2♌21 | 3♌34 | 23♎58 | 7♎12 | S 30 | | | | | | | | |

Delta T = 19m02s

OCTOBER 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| M 1 | 0 41 21 | 8♋30'23 | 29♋11 | 3°R35 | 22♊32 | 24♊ 6 | 11°R34 | 18°R51 | 26°R41 | 26♌ 0 | 26°R33 | 2°D20 | 3♌31 | 24♎ 5 | 7♎19 | M 1 | | | | | | | | |
| T 2 | 0 45 18 | 9°29'05 | 11♌13 | 2♋42 | 23°28 | 24°43 | 11♉33 | 18≈49 | 26♌41 | 26° 1 | 26°R32 | 2♌20 | 3°28 | 24°11 | 7°26 | T 2 | | | | | | | | |
| W 3 | 0 49 14 | 10°27'50 | 23°24 | 1°55 | 24°25 | 25°21 | 11°33 | 18°47 | 26°41 | 26° 3 | 26°30 | 2°21 | 3°25 | 24°18 | 7°33 | W 3 | | | | | | | | |
| T 4 | 0 53 11 | 11°26'36 | 5♌46 | 1°15 | 25°22 | 25°58 | 11°32 | 18°46 | 26°40 | 26° 5 | 26°29 | 2°23 | 3°22 | 24°25 | 7°40 | T 4 | | | | | | | | |
| F 5 | 0 57 7 | 12°25'24 | 18°23 | 0°44 | 26°20 | 26°35 | 11°31 | 18°44 | 26°D40 | 26° 6 | 26°28 | 2°24 | 3°19 | 24°31 | 7°47 | F 5 | | | | | | | | |
| S 6 | 1 1 4 | 13°24'14 | 1♌19 | 0°22 | 27°18 | 27°12 | 11°30 | 18°42 | 26°40 | 26° 8 | 26°27 | 2°26 | 3°15 | 24°38 | 7°54 | S 6 | | | | | | | | |
| S 7 | 1 5 0 | 14°23'05 | 14°36 | 0°10 | 28°16 | 27°48 | 11°29 | 18°41 | 26°40 | 26°10 | 26°26 | 2°R26 | 3°12 | 24°45 | 8° 1 | S 7 | | | | | | | | |
| M 8 | 1 8 57 | 15°21'59 | 28°17 | 0°D 9 | 29°15 | 28°25 | 11°27 | 18°39 | 26°41 | 26°11 | 26°25 | 2°26 | 3° 9 | 24°51 | 8° 8 | M 8 | | | | | | | | |
| T 9 | 1 12 54 | 16°20'53 | 12≈22 | 0°17 | 0♎15 | 29° 2 | 11°25 | 18°38 | 26°41 | 26°13 | 26°24 | 2°24 | 3° 6 | 24°58 | 8°15 | T 9 | | | | | | | | |
| W10 | 1 16 50 | 17°19'50 | 26°50 | 0°36 | 1°15 | 29°39 | 11°23 | 18°36 | 26°41 | 26°14 | 26°23 | 2°23 | 3° 3 | 25° 5 | 8°22 | W10 | | | | | | | | |
| T 11 | 1 20 47 | 18°18'48 | 11♌39 | 1° 4 | 2°15 | 0♎15 | 11°21 | 18°35 | 26°41 | 26°16 | 26°21 | 2°21 | 3° 0 | 25°11 | 8°29 | T 11 | | | | | | | | |
| F 12 | 1 24 43 | 19°17'48 | 26°41 | 1°42 | 3°16 | 0°52 | 11°19 | 18°34 | 26°41 | 26°17 | 26°20 | 2°19 | 2°56 | 25°18 | 8°35 | F 12 | | | | | | | | |
| S 13 | 1 28 40 | 20°16'50 | 11♌48 | 2°29 | 4°17 | 1°29 | 11°16 | 18°33 | 26°42 | 26°19 | 26°19 | 2°18 | 2°53 | 25°25 | 8°42 | S 13 | | | | | | | | |
| S 14 | 1 32 36 | 21°15'53 | 26°52 | 3°23 | 5°18 | 2° 5 | 11°14 | 18°32 | 26°42 | 26°20 | 26°18 | 2°D18 | 2°50 | 25°31 | 8°49 | S 14 | | | | | | | | |
| M15 | 1 36 33 | 22°14'59 | 11♌43 | 4°25 | 6°20 | 2°41 | 11°11 | 18°31 | 26°43 | 26°22 | 26°17 | 2°18 | 2°47 | 25°38 | 8°55 | M15 | | | | | | | | |
| T 16 | 1 40 29 | 23°14'07 | 26°13 | 5°34 | 7°22 | 3°18 | 11° 7 | 18°31 | 26°43 | 26°23 | 26°16 | 2°18 | 2°44 | 25°45 | 9° 2 | T 16 | | | | | | | | |
| W17 | 1 44 26 | 24°13'18 | 10♉20 | 6°49 | 8°25 | 3°54 | 11° 4 | 18°30 | 26°44 | 26°24 | 26°15 | 2°19 | 2°40 | 25°51 | 9° 8 | W17 | | | | | | | | |
| T 18 | 1 48 22 | 25°12'30 | 23°59 | 8° 9 | 9°28 | 4°30 | 11° 1 | 18°30 | 26°44 | 26°26 | 26°13 | 2°20 | 2°37 | 25°58 | 9°15 | T 18 | | | | | | | | |
| F 19 | 1 52 19 | 26°11'45 | 7♌13 | 9°33 | 10°31 | 5° 6 | 10°57 | 18°29 | 26°45 | 26°27 | 26°12 | 2°20 | 2°34 | 26° 5 | 9°21 | F 19 | | | | | | | | |
| S 20 | 1 56 16 | 27°11'02 | 20° 2 | 11° 1 | 11°35 | 5°43 | 10°53 | 18°29 | 26°46 | 26°28 | 26°11 | 2°21 | 2°31 | 26°12 | 9°27 | S 20 | | | | | | | | |
| S 21 | 2 0 12 | 28°10'21 | 2♊31 | 12°32 | 12°38 | 6°19 | 10°49 | 18°29 | 26°47 | 26°30 | 26°10 | 2°R21 | 2°28 | 26°18 | 9°33 | S 21 | | | | | | | | |
| M22 | 2 4 9 | 29° 9'43 | 14°43 | 14° 6 | 13°43 | 6°55 | 10°45 | 18°29 | 26°47 | 26°31 | 26° 9 | 2°20 | 2°25 | 26°25 | 9°40 | M22 | | | | | | | | |
| T 23 | 2 8 5 | 0♌ 9'07 | 26°44 | 15°42 | 14°47 | 7°30 | 10°40 | 18°D29 | 26°48 | 26°32 | 26° 8 | 2°20 | 2°21 | 26°32 | 9°46 | T 23 | | | | | | | | |
| W24 | 2 12 2 | 1° 8'33 | 8♎36 | 17°20 | 15°52 | 8° 6 | 10°36 | 18°29 | 26°49 | 26°33 | 26° 7 | 2°20 | 2°18 | 26°38 | 9°52 | W24 | | | | | | | | |
| T 25 | 2 15 58 | 2° 8'01 | 20°25 | 19° 0 | 16°57 | 8°42 | 10°31 | 18°29 | 26°50 | 26°35 | 26° 5 | 2°D20 | 2°15 | 26°45 | 9°58 | T 25 | | | | | | | | |
| F 26 | 2 19 55 | 3° 7'32 | 2♋14 | 20°40 | 18° 2 | 9°18 | 10°26 | 18°29 | 26°51 | 26°36 | 26° 4 | 2°20 | 2°12 | 26°52 | 10° 4 | F 26 | | | | | | | | |
| S 27 | 2 23 51 | 4° 7'04 | 14° 7 | 22°21 | 19° 8 | 9°53 | 10°21 | 18°30 | 26°52 | 26°37 | 26° 3 | 2°20 | 2° 9 | 26°58 | 10° 9 | S 27 | | | | | | | | |
| S 28 | 2 27 48 | 5° 6'39 | 26° 4 | 24° 3 | 20°14 | 10°29 | 10°15 | 18°30 | 26°53 | 26°38 | 26° 2 | 2°20 | 2° 6 | 27° 5 | 10°15 | S 28 | | | | | | | | |
| M29 | 2 31 45 | 6° 6'15 | 8♌10 | 25°45 | 21°20 | 11° 5 | 10°10 | 18°31 | 26°55 | 26°39 | 26° 1 | 2°R20 | 2° 2 | 27°12 | 10°21 | M29 | | | | | | | | |
| T 30 | 2 35 41 | 7° 5'54 | 20°24 | 27°27 | 22°26 | 11°40 | 10° 4 | 18°31 | 26°56 | 26°40 | 26° 0 | 2°20 | 1°59 | 27°18 | 10°26 | T 30 | | | | | | | | |
| W31 | 2 39 38 | 8♌ 5'35 | 2♌50 | 29♋ 9 | 23♎33 | 12♎15 | 9♉58 | 18≈32 | 26♌57 | 26♌41 | 25°R59 | 2♌19 | 1♌56 | 27♎25 | 10♎32 | W31 | | | | | | | | |

Delta T = 19m02s

ASTRODIENST EPHEMERIS for the year 2581
geocentric

NOVEMBER 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| T 1 | 2 43 34 | 9♏ 5'17 | 15♌28 | 0♏52 | 24♏39 | 12♏51 | 9°R53 | 18♏33 | 26♏58 | 26♏42 | 25°R57 | 2°R19 | 1♏53 | 27♏32 | 10♏38 | T 1 | | | | | | | | |
| F 2 | 2 47 31 | 10° 5'02 | 28°19 | 2°34 | 25°46 | 13°26 | 9♏46 | 18°34 | 27° 0 | 26°43 | 25°Y56 | 2♏18 | 1°50 | 27°38 | 10°43 | F 2 | | | | | | | | |
| S 3 | 2 51 27 | 11° 4'48 | 11♌25 | 4°15 | 26°54 | 14° 1 | 9°40 | 18°35 | 27° 1 | 26°44 | 25°55 | 2°17 | 1°46 | 27°45 | 10°48 | S 3 | | | | | | | | |
| S 4 | 2 55 24 | 12° 4'36 | 24°47 | 5°57 | 28° 1 | 14°36 | 9°34 | 18°36 | 27° 3 | 26°44 | 25°54 | 2°16 | 1°43 | 27°52 | 10°54 | S 4 | | | | | | | | |
| M 5 | 2 59 21 | 13° 4'25 | 8♌26 | 7°38 | 29° 9 | 15°11 | 9°27 | 18°38 | 27° 4 | 26°45 | 25°53 | 2°D15 | 1°40 | 27°58 | 10°59 | M 5 | | | | | | | | |
| T 6 | 3 3 17 | 14° 4'17 | 22°21 | 9°18 | 0♏17 | 15°46 | 9°21 | 18°39 | 27° 6 | 26°46 | 25°52 | 2°15 | 1°37 | 28° 5 | 11° 4 | T 6 | | | | | | | | |
| W 7 | 3 7 14 | 15° 4'09 | 6♌33 | 10°59 | 1°25 | 16°21 | 9°14 | 18°41 | 27° 7 | 26°47 | 25°51 | 2°16 | 1°34 | 28°12 | 11° 9 | W 7 | | | | | | | | |
| T 8 | 3 11 10 | 16° 4'03 | 21° 0 | 12°38 | 2°33 | 16°55 | 9° 7 | 18°42 | 27° 9 | 26°47 | 25°50 | 2°17 | 1°31 | 28°18 | 11°14 | T 8 | | | | | | | | |
| F 9 | 3 15 7 | 17° 3'59 | 5♏38 | 14°18 | 3°41 | 17°30 | 9° 0 | 18°44 | 27°11 | 26°48 | 25°49 | 2°18 | 1°27 | 28°25 | 11°19 | F 9 | | | | | | | | |
| S 10 | 3 19 3 | 18° 3'56 | 20°22 | 15°57 | 4°50 | 18° 5 | 8°53 | 18°46 | 27°12 | 26°49 | 25°48 | 2°19 | 1°24 | 28°32 | 11°24 | S 10 | | | | | | | | |
| S 11 | 3 23 0 | 19° 3'56 | 5♏ 7 | 17°35 | 5°59 | 18°39 | 8°46 | 18°48 | 27°14 | 26°49 | 25°47 | 2°R19 | 1°21 | 28°38 | 11°28 | S 11 | | | | | | | | |
| M12 | 3 26 56 | 20° 3'57 | 19°45 | 19°13 | 7° 8 | 19°14 | 8°38 | 18°50 | 27°16 | 26°50 | 25°46 | 2°19 | 1°18 | 28°45 | 11°33 | M12 | | | | | | | | |
| T 13 | 3 30 53 | 21° 3'59 | 4♏ 9 | 20°51 | 8°17 | 19°48 | 8°31 | 18°52 | 27°18 | 26°51 | 25°44 | 2°17 | 1°15 | 28°52 | 11°37 | T 13 | | | | | | | | |
| W14 | 3 34 49 | 22° 4'04 | 18°14 | 22°28 | 9°26 | 20°22 | 8°23 | 18°54 | 27°20 | 26°51 | 25°43 | 2°15 | 1°12 | 28°58 | 11°42 | W14 | | | | | | | | |
| T 15 | 3 38 46 | 23° 4'11 | 1♏57 | 24° 5 | 10°36 | 20°56 | 8°16 | 18°56 | 27°22 | 26°52 | 25°42 | 2°12 | 1° 8 | 29° 5 | 11°46 | T 15 | | | | | | | | |
| F 16 | 3 42 43 | 24° 4'20 | 15°15 | 25°41 | 11°45 | 21°30 | 8° 8 | 18°59 | 27°24 | 26°52 | 25°41 | 2° 8 | 1° 5 | 29°12 | 11°50 | F 16 | | | | | | | | |
| S 17 | 3 46 39 | 25° 4'30 | 28°10 | 27°17 | 12°55 | 22° 4 | 8° 0 | 19° 1 | 27°26 | 26°52 | 25°40 | 2° 6 | 1° 2 | 29°18 | 11°55 | S 17 | | | | | | | | |
| S 18 | 3 50 36 | 26° 4'43 | 10♏42 | 28°53 | 14° 5 | 22°38 | 7°53 | 19° 4 | 27°28 | 26°53 | 25°40 | 2° 4 | 0°59 | 29°25 | 11°59 | S 18 | | | | | | | | |
| M19 | 3 54 32 | 27° 4'58 | 22°57 | 0♏28 | 15°15 | 23°12 | 7°45 | 19° 6 | 27°30 | 26°53 | 25°39 | 2°D 3 | 0°56 | 29°32 | 12° 3 | M19 | | | | | | | | |
| T 20 | 3 58 29 | 28° 5'14 | 4♏58 | 2° 3 | 16°25 | 23°46 | 7°37 | 19° 9 | 27°32 | 26°53 | 25°38 | 2° 3 | 0°52 | 29°38 | 12° 7 | T 20 | | | | | | | | |
| W21 | 4 2 25 | 29° 5'33 | 16°50 | 3°37 | 17°36 | 24°20 | 7°29 | 19°12 | 27°34 | 26°54 | 25°37 | 2° 4 | 0°49 | 29°45 | 12°11 | W21 | | | | | | | | |
| T 22 | 4 6 22 | 0♏ 5'53 | 28°39 | 5°12 | 18°46 | 24°53 | 7°21 | 19°15 | 27°37 | 26°54 | 25°36 | 2° 5 | 0°46 | 29°52 | 12°14 | T 22 | | | | | | | | |
| F 23 | 4 10 19 | 1° 6'15 | 10♏29 | 6°46 | 19°57 | 25°27 | 7°13 | 19°18 | 27°39 | 26°54 | 25°35 | 2° 7 | 0°43 | 29°58 | 12°18 | F 23 | | | | | | | | |
| S 24 | 4 14 15 | 2° 6'40 | 22°24 | 8°19 | 21° 8 | 26° 0 | 7° 4 | 19°21 | 27°41 | 26°54 | 25°34 | 2° 9 | 0°40 | 0♏ 5 | 12°21 | S 24 | | | | | | | | |
| S 25 | 4 18 12 | 3° 7'06 | 4♏28 | 9°53 | 22°19 | 26°33 | 6°56 | 19°24 | 27°44 | 26°55 | 25°33 | 2°R 9 | 0°37 | 0°12 | 12°25 | S 25 | | | | | | | | |
| M26 | 4 22 8 | 4° 7'33 | 16°45 | 11°26 | 23°30 | 27° 6 | 6°48 | 19°28 | 27°46 | 26°55 | 25°32 | 2° 8 | 0°33 | 0°18 | 12°28 | M26 | | | | | | | | |
| T 27 | 4 26 5 | 5° 8'03 | 29°15 | 12°59 | 24°41 | 27°39 | 6°40 | 19°31 | 27°49 | 26°55 | 25°31 | 2° 5 | 0°30 | 0°25 | 12°31 | T 27 | | | | | | | | |
| W28 | 4 30 1 | 6° 8'34 | 12♏ 0 | 14°32 | 25°52 | 28°12 | 6°32 | 19°35 | 27°51 | 26°55 | 25°30 | 2° 1 | 0°27 | 0°32 | 12°35 | W28 | | | | | | | | |
| T 29 | 4 33 58 | 7° 9'06 | 25° 1 | 16° 4 | 27° 3 | 28°45 | 6°24 | 19°38 | 27°54 | 26°R55 | 25°30 | 1°55 | 0°24 | 0°38 | 12°38 | T 29 | | | | | | | | |
| F 30 | 4 37 54 | 8♏ 9'40 | 8♏15 | 17♏37 | 28♏15 | 29♏18 | 6♏15 | 19♏42 | 27♏56 | 26♏55 | 25°Y29 | 1♏49 | 0♏21 | 0♏45 | 12♏41 | F 30 | | | | | | | | |

Delta T = 19m02s

DECEMBER 2581

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|------|--------|------|---|---|---|---|---|---|---|-----|
| S 1 | 4 41 51 | 9♏10'16 | 21♌43 | 19♏ 9 | 29♏27 | 29♏50 | 6°R 7 | 19♏46 | 27♏59 | 26°R55 | 25°R28 | 1°R43 | 0♏18 | 0♏52 | 12♏43 | S 1 | | | | | | | | |
| S 2 | 4 45 48 | 10°10'52 | 5♌21 | 20°41 | 0♏38 | 0♏23 | 5♏59 | 19°49 | 28° 1 | 26♏55 | 25°Y27 | 1♏38 | 0°14 | 0°58 | 12°46 | S 2 | | | | | | | | |
| M 3 | 4 49 44 | 11°11'30 | 19°10 | 22°13 | 1°50 | 0°55 | 5°51 | 19°53 | 28° 4 | 26°54 | 25°26 | 1°34 | 0°11 | 1° 5 | 12°49 | M 3 | | | | | | | | |
| T 4 | 4 53 41 | 12°12'08 | 3♌ 6 | 23°44 | 3° 2 | 1°27 | 5°43 | 19°57 | 28° 7 | 26°54 | 25°26 | 1°32 | 0° 8 | 1°12 | 12°51 | T 4 | | | | | | | | |
| W 5 | 4 57 37 | 13°12'48 | 17°10 | 25°15 | 4°14 | 2° 0 | 5°35 | 20° 1 | 28°10 | 26°54 | 25°25 | 1°D31 | 0° 5 | 1°18 | 12°54 | W 5 | | | | | | | | |
| T 6 | 5 1 34 | 14°13'29 | 1°Y20 | 26°47 | 5°26 | 2°32 | 5°27 | 20° 6 | 28°12 | 26°54 | 25°24 | 1°32 | 0° 2 | 1°25 | 12°56 | T 6 | | | | | | | | |
| F 7 | 5 5 30 | 15°14'10 | 15°35 | 28°17 | 6°38 | 3° 3 | 5°19 | 20°10 | 28°15 | 26°54 | 25°24 | 1°34 | 29°Y58 | 1°32 | 12°58 | F 7 | | | | | | | | |
| S 8 | 5 9 27 | 16°14'53 | 29°52 | 29°48 | 7°50 | 3°35 | 5°11 | 20°14 | 28°18 | 26°53 | 25°23 | 1°R34 | 29°55 | 1°38 | 13° 0 | S 8 | | | | | | | | |
| S 9 | 5 13 23 | 17°15'37 | 14♏ 9 | 1♏18 | 9° 3 | 4° 7 | 5° 3 | 20°19 | 28°21 | 26°53 | 25°22 | 1°34 | 29°52 | 1°45 | 13° 2 | S 9 | | | | | | | | |
| M10 | 5 17 20 | 18°16'21 | 28°21 | 2°48 | 10°15 | 4°38 | 4°55 | 20°23 | 28°24 | 26°53 | 25°22 | 1°31 | 29°49 | 1°52 | 13° 4 | M10 | | | | | | | | |
| T 11 | 5 21 17 | 19°17'07 | 12♏25 | 4°18 | 11°28 | 5°10 | 4°48 | 20°28 | 28°27 | 26°52 | 25°21 | 1°26 | 29°46 | 1°58 | 13° 6 | T 11 | | | | | | | | |
| W12 | 5 25 13 | 20°17'55 | 26°16 | 5°47 | 12°40 | 5°41 | 4°40 | 20°32 | 28°30 | 26°52 | 25°20 | 1°18 | 29°43 | 2° 5 | 13° 8 | W12 | | | | | | | | |
| T 13 | 5 29 10 | 21°18'43 | 9♏50 | 7°16 | 13°53 | 6°12 | 4°33 | 20°37 | 28°33 | 26°51 | 25°20 | 1°10 | 29°39 | 2°12 | 13° 9 | T 13 | | | | | | | | |
| F 14 | 5 33 6 | 22°19'32 | 23° 4 | 8°44 | 15° 6 | 6°43 | 4°25 | 20°42 | 28°36 | 26°51 | 25°19 | 1° 0 | 29°36 | 2°18 | 13°11 | F 14 | | | | | | | | |
| S 15 | 5 37 3 | 23°20'23 | 5♏57 | 10°12 | 16°18 | 7°14 | 4°18 | 20°47 | 28°39 | 26°50 | 25°19 | 0°52 | 29°33 | 2°25 | 13°12 | S 15 | | | | | | | | |
| S 16 | 5 40 59 | 24°21'15 | 18°31 | 11°39 | 17°31 | 7°45 | 4°11 | 20°52 | 28°42 | 26°50 | 25°18 | 0°44 | 29°30 | 2°32 | 13°13 | S 16 | | | | | | | | |
| M17 | 5 44 56 | 25°22'08 | 0♏47 | 13° 5 | 18°44 | 8°15 | 4° 3 | 20°57 | 28°45 | 26°49 | 25°18 | 0°39 | 29°27 | 2°38 | 13°14 | M17 | | | | | | | | |
| T 18 | 5 48 52 | 26°23'07 | 12°49 | 14°30 | 19°57 | 8°46 | 3°56 | 21° 2 | 28°48 | 26°48 | 25°17 | 0°35 | 29°24 | 2°45 | 13°15 | T 18 | | | | | | | | |
| W19 | 5 52 49 | 27°23'57 | 24°42 | 15°54 | 21°10 | 9°16 | 3°50 | 21° 7 | 28°51 | 26°48 | 25°17 | 0°D34 | 29°20 | 2°52 | 13°16 | W19 | | | | | | | | |
| T 20 | 5 56 46 | 28°24'54 | 6♏30 | 17°16 | 22°24 | 9°46 | 3°43 | 21°12 | 28°54 | 26°47 | 25°16 | 0°34 | 29°17 | 2°58 | 13°17 | T 20 | | | | | | | | |
| F 21 | 6 0 42 | 29°25'52 | 18°20 | 18°37 | 23°37 | 10°16 | 3°36 | 21°17 | 28°58 | 26°46 | 25°16 | 0°35 | 29°14 | 3° 5 | 13°18 | F 21 | | | | | | | | |
| S 22 | 6 4 39 | 0♏26'50 | 0♏16 | 19°56 | 24°50 | 10°46 | 3°30 | 21°22 | 29° 1 | 26°46 | 25°16 | 0°R36 | 29°11 | 3°11 | 13°18 | S 22 | | | | | | | | |
| S 23 | 6 8 35 | 1°27'50 | 12°24 | 21°12 | 26° 3 | 11°15 | 3°23 | 21°28 | 29° 4 | 26°45 | 25°15 | 0°35 | 29° 8 | 3°18 | 13°19 | S 23 | | | | | | | | |
| M24 | 6 12 32 | 2°28'51 | 24°48 | 22°26 | 27°17 | 11°45 | 3°17 | 21°33 | 29° 7 | 26°44 | 25°15 | 0°32 | 29° 4 | 3°25 | 13°19 | M24 | | | | | | | | |
| T 25 | 6 16 28 | 3°29'53 | 7♏31 | 23°37 | 28°30 | 12°14 | 3°11 | 21°39 | 29°11 | 26°43 | 25°15 | 0°26 | 29° 1 | 3°31 | 13°19 | T 25 | | | | | | | | |
| W26 | 6 20 25 | 4°30'56 | 20°33 | 24°44 | 29°44 | 12°43 | 3° 5 | 21°44 | 29°14 | 26°42 | 25°14 | 0°18 | 28°58 | 3°38 | 13°R19 | W26 | | | | | | | | |
| T 27 | 6 24 22 | 5°31'59 | 3♏56 | 25°47 | 0♏57 | 13°12 | 2°59 | 21°50 | 29°17 | 26°41 | 25°14 | 0° 8 | 28°55 | 3°45 | 13°19 | T 27 | | | | | | | | |
| F 28 | 6 28 18 | 6°33'03 | 17°37 | 26°46 | 2°11 | 13°41 | 2°54 | 21°56 | 29°21 | 26°41 | 25°14 | 29°Y56 | 28°52 | 3°51 | 13°19 | F 28 | | | | | | | | |
| S 29 | 6 32 15 | 7°34'08 | 1♏32 | 27°38 | 3°25 | 14°10 | 2°48 | 22° 2 | 29°24 | 26°40 | 25°13 | 29°45 | 28°49 | 3°58 | 13°19 | S 29 | | | | | | | | |
| S 30 | 6 36 11 | 8°35'13 | 15°38 | 28°25 | 4°38 | 14°38 | 2°43 | 22° 7 | 29°27 | 26°39 | 25°13 | 29°35 | 28°45 | 4° 5 | 13°19 | S 30 | | | | | | | | |
| M31 | 6 40 8 | 9♏36'18 | 29♏49 | 29♏ 5 | 5♏52 | 15♏ 6 | 2♏38 | 22♏13 | 29♏31 | 26♏38 | 25°Y13 | 29°Y27 | 28°Y42 | 4♏11 | 13♏18 | M31 | | | | | | | | |

Delta T = 19m02s

ASTRODIENST EPHEMERIS for the year 2582
geocentric

JANUARY 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|------|--------|------|-----|
| T 1 | 6 44 4 | 10♁37'24 | 14♁ 1 | 29♁36 | 7♁ 6 | 15♁34 | 2°R33 | 22♁19 | 29♁34 | 26°R37 | 25°R13 | 29°R21 | 28°V39 | 4♁18 | 13°R18 | T 1 | |
| W 2 | 6 48 1 | 11°38'29 | 28°11 | 29°59 | 8°20 | 16° 2 | 2II28 | 22°25 | 29°38 | 26♁35 | 25°V13 | 29°V19 | 28°36 | 4°25 | 13♁17 | W 2 | |
| T 3 | 6 51 57 | 12°39'35 | 12°V17 | 0♁12 | 9°33 | 16°30 | 2°23 | 22°31 | 29°41 | 26°34 | 25°13 | 29°D18 | 28°33 | 4°31 | 13°16 | T 3 | |
| F 4 | 6 55 54 | 13°40'40 | 26°19 | 0°R14 | 10°47 | 16°57 | 2°19 | 22°37 | 29°44 | 26°33 | 25°12 | 29°R18 | 28°30 | 4°38 | 13°15 | F 4 | |
| S 5 | 6 59 51 | 14°41'46 | 10♁17 | 0° 5 | 12° 1 | 17°24 | 2°15 | 22°43 | 29°48 | 26°32 | 25°12 | 29°18 | 28°26 | 4°45 | 13°14 | S 5 | |
| S 6 | 7 3 47 | 15°42'52 | 24° 8 | 29♁44 | 13°15 | 17°51 | 2°11 | 22°50 | 29°51 | 26°31 | 25°12 | 29°16 | 28°23 | 4°51 | 13°13 | S 6 | |
| M 7 | 7 7 44 | 16°43'58 | 7II53 | 29°12 | 14°29 | 18°18 | 2° 7 | 22°56 | 29°55 | 26°30 | 25°12 | 29°11 | 28°20 | 4°58 | 13°12 | M 7 | |
| T 8 | 7 11 40 | 17°45'04 | 21°30 | 28°28 | 15°43 | 18°44 | 2° 3 | 23° 2 | 29°58 | 26°29 | 25°D12 | 29° 3 | 28°17 | 5° 5 | 13°11 | T 8 | |
| W 9 | 7 15 37 | 18°46'10 | 4♁57 | 27°33 | 16°57 | 19°11 | 2° 0 | 23° 8 | 0♁ 2 | 26°27 | 25°12 | 28°52 | 28°14 | 5°11 | 13° 9 | W 9 | |
| T 10 | 7 19 33 | 19°47'16 | 18°11 | 26°28 | 18°11 | 19°37 | 1°57 | 23°15 | 0° 5 | 26°26 | 25°12 | 28°39 | 28°10 | 5°18 | 13° 8 | T 10 | |
| F 11 | 7 23 30 | 20°48'23 | 1♁11 | 25°16 | 19°26 | 20° 2 | 1°54 | 23°21 | 0° 9 | 26°25 | 25°12 | 28°25 | 28° 7 | 5°25 | 13° 6 | F 11 | |
| S 12 | 7 27 26 | 21°49'29 | 13°55 | 23°58 | 20°40 | 20°28 | 1°51 | 23°28 | 0°12 | 26°23 | 25°12 | 28°12 | 28° 4 | 5°31 | 13° 4 | S 12 | |
| S 13 | 7 31 23 | 22°50'35 | 26°23 | 22°38 | 21°54 | 20°53 | 1°48 | 23°34 | 0°16 | 26°22 | 25°12 | 28° 0 | 28° 1 | 5°38 | 13° 3 | S 13 | |
| M14 | 7 35 20 | 23°51'42 | 8♁37 | 21°16 | 23° 8 | 21°18 | 1°46 | 23°41 | 0°20 | 26°21 | 25°13 | 27°51 | 27°58 | 5°45 | 13° 1 | M14 | |
| T 15 | 7 39 16 | 24°52'48 | 20°37 | 19°58 | 24°22 | 21°43 | 1°43 | 23°47 | 0°23 | 26°19 | 25°13 | 27°44 | 27°55 | 5°51 | 12°59 | T 15 | |
| W16 | 7 43 13 | 25°53'55 | 2♁29 | 18°43 | 25°37 | 22° 8 | 1°41 | 23°54 | 0°27 | 26°18 | 25°13 | 27°40 | 27°51 | 5°58 | 12°56 | W16 | |
| T 17 | 7 47 9 | 26°55'02 | 14°17 | 17°36 | 26°51 | 22°32 | 1°39 | 24° 0 | 0°30 | 26°17 | 25°13 | 27°38 | 27°48 | 6° 5 | 12°54 | T 17 | |
| F 18 | 7 51 6 | 27°56'09 | 26° 5 | 16°36 | 28° 5 | 22°56 | 1°38 | 24° 7 | 0°34 | 26°15 | 25°13 | 27°38 | 27°45 | 6°11 | 12°52 | F 18 | |
| S 19 | 7 55 2 | 28°57'16 | 8III 0 | 15°46 | 29°20 | 23°20 | 1°36 | 24°14 | 0°37 | 26°14 | 25°14 | 27°38 | 27°42 | 6°18 | 12°49 | S 19 | |
| S 20 | 7 58 59 | 29°58'23 | 20° 8 | 15° 5 | 0♁34 | 23°43 | 1°35 | 24°21 | 0°41 | 26°12 | 25°14 | 27°37 | 27°39 | 6°25 | 12°47 | S 20 | |
| M21 | 8 2 55 | 0♁59'31 | 2♁33 | 14°34 | 1°48 | 24° 7 | 1°34 | 24°27 | 0°44 | 26°11 | 25°14 | 27°34 | 27°36 | 6°31 | 12°44 | M21 | |
| T 22 | 8 6 52 | 2° 0'38 | 15°19 | 14°13 | 3° 3 | 24°29 | 1°33 | 24°34 | 0°48 | 26° 9 | 25°14 | 27°28 | 27°32 | 6°38 | 12°41 | T 22 | |
| W23 | 8 10 49 | 3° 1'45 | 28°31 | 14° 2 | 4°17 | 24°52 | 1°33 | 24°41 | 0°52 | 26° 8 | 25°15 | 27°19 | 27°29 | 6°45 | 12°39 | W23 | |
| T 24 | 8 14 45 | 4° 2'52 | 12♁ 7 | 13°D59 | 5°32 | 25°14 | 1°32 | 24°48 | 0°55 | 26° 6 | 25°15 | 27° 8 | 27°26 | 6°51 | 12°36 | T 24 | |
| F 25 | 8 18 42 | 5° 3'59 | 26° 8 | 14° 5 | 6°46 | 25°36 | 1°D32 | 24°55 | 0°59 | 26° 5 | 25°15 | 26°56 | 27°23 | 6°58 | 12°33 | F 25 | |
| S 26 | 8 22 38 | 6° 5'05 | 10♁28 | 14°19 | 8° 1 | 25°58 | 1°32 | 25° 2 | 1° 2 | 26° 3 | 25°16 | 26°43 | 27°20 | 7° 5 | 12°30 | S 26 | |
| S 27 | 8 26 35 | 7° 6'11 | 25° 1 | 14°39 | 9°15 | 26°19 | 1°32 | 25° 9 | 1° 6 | 26° 2 | 25°16 | 26°32 | 27°16 | 7°11 | 12°26 | S 27 | |
| M28 | 8 30 31 | 8° 7'16 | 9♁40 | 15° 6 | 10°30 | 26°40 | 1°33 | 25°16 | 1° 9 | 26° 0 | 25°17 | 26°23 | 27°13 | 7°18 | 12°23 | M28 | |
| T 29 | 8 34 28 | 9° 8'20 | 24°17 | 15°39 | 11°44 | 27° 0 | 1°33 | 25°23 | 1°13 | 25°58 | 25°17 | 26°17 | 27°10 | 7°24 | 12°20 | T 29 | |
| W30 | 8 38 25 | 10° 9'23 | 8°V47 | 16°18 | 12°59 | 27°20 | 1°34 | 25°30 | 1°16 | 25°57 | 25°18 | 26°14 | 27° 7 | 7°31 | 12°16 | W30 | |
| T 31 | 8 42 21 | 11♁10'25 | 23°V 5 | 17♁ 1 | 14♁13 | 27♁40 | 1II35 | 25♁37 | 1♁20 | 25♁55 | 25°V18 | 26°D13 | 27°V 4 | 7♁38 | 12♁13 | T 31 | |

Delta T = 19m03s

FEBRUARY 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|-------|-------|--------|-------|-------|------|--------|--------|--------|--------|-------|---------|------|-----|
| F 1 | 8 46 18 | 12♁11'27 | 7♁10 | 17♁49 | 15♁28 | 28♁ 0 | 1II36 | 25♁44 | 1♁23 | 25°R54 | 25°V19 | 26°R13 | 27°V 1 | 7♁44 | 12°R 9 | F 1 | |
| S 2 | 8 50 14 | 13°12'28 | 21° 2 | 18°40 | 16°42 | 28°19 | 1°38 | 25°51 | 1°27 | 25♁52 | 25°19 | 26°V13 | 26°57 | 7°51 | 12♁ 6 | S 2 | |
| S 3 | 8 54 11 | 14°13'27 | 4II40 | 19°35 | 17°57 | 28°37 | 1°40 | 25°58 | 1°30 | 25°50 | 25°20 | 26°11 | 26°54 | 7°58 | 12° 2 | S 3 | |
| M 4 | 8 58 7 | 15°14'26 | 18° 6 | 20°33 | 19°12 | 28°55 | 1°41 | 26° 5 | 1°34 | 25°49 | 25°20 | 26° 7 | 26°51 | 8° 4 | 11°58 | M 4 | |
| T 5 | 9 2 4 | 16°15'23 | 1♁21 | 21°34 | 20°26 | 29°13 | 1°44 | 26°12 | 1°37 | 25°47 | 25°21 | 26° 0 | 26°48 | 8°11 | 11°54 | T 5 | |
| W 6 | 9 6 0 | 17°16'20 | 14°24 | 22°38 | 21°41 | 29°31 | 1°46 | 26°19 | 1°41 | 25°45 | 25°22 | 25°50 | 26°45 | 8°18 | 11°50 | W 6 | |
| T 7 | 9 9 57 | 18°17'15 | 27°16 | 23°44 | 22°55 | 29°48 | 1°48 | 26°26 | 1°44 | 25°44 | 25°22 | 25°39 | 26°42 | 8°24 | 11°47 | T 7 | |
| F 8 | 9 13 54 | 19°18'10 | 9♁56 | 24°53 | 24°10 | 0III 4 | 1°51 | 26°33 | 1°48 | 25°42 | 25°23 | 25°26 | 26°38 | 8°31 | 11°42 | F 8 | |
| S 9 | 9 17 50 | 20°19'03 | 22°24 | 26° 3 | 25°25 | 0°20 | 1°54 | 26°41 | 1°51 | 25°40 | 25°24 | 25°14 | 26°35 | 8°38 | 11°38 | S 9 | |
| S 10 | 9 21 47 | 21°19'55 | 4III40 | 27°16 | 26°39 | 0°36 | 1°57 | 26°48 | 1°55 | 25°39 | 25°24 | 25° 3 | 26°32 | 8°44 | 11°34 | S 10 | |
| M11 | 9 25 43 | 22°20'47 | 16°46 | 28°30 | 27°54 | 0°51 | 2° 0 | 26°55 | 1°58 | 25°37 | 25°25 | 24°54 | 26°29 | 8°51 | 11°30 | M11 | |
| T 12 | 9 29 40 | 23°21'37 | 28°42 | 29°45 | 29° 9 | 1° 6 | 2° 3 | 27° 2 | 2° 1 | 25°35 | 25°26 | 24°48 | 26°26 | 8°58 | 11°26 | T 12 | |
| W13 | 9 33 36 | 24°22'27 | 10♁32 | 1♁ 2 | 0♁23 | 1°20 | 2° 7 | 27° 9 | 2° 5 | 25°34 | 25°27 | 24°44 | 26°22 | 9° 4 | 11°22 | W13 | |
| T 14 | 9 37 33 | 25°23'15 | 22°19 | 2°21 | 1°38 | 1°34 | 2°11 | 27°16 | 2° 8 | 25°32 | 25°27 | 24°D43 | 26°19 | 9°11 | 11°17 | T 14 | |
| F 15 | 9 41 29 | 26°24'03 | 4III 7 | 3°41 | 2°53 | 1°47 | 2°15 | 27°24 | 2°11 | 25°30 | 25°28 | 24°43 | 26°16 | 9°18 | 11°13 | F 15 | |
| S 16 | 9 45 26 | 27°24'50 | 16° 1 | 5° 2 | 4° 7 | 2° 0 | 2°19 | 27°31 | 2°15 | 25°29 | 25°29 | 24°44 | 26°13 | 9°24 | 11° 8 | S 16 | |
| S 17 | 9 49 23 | 28°25'36 | 28° 6 | 6°24 | 5°22 | 2°12 | 2°23 | 27°38 | 2°18 | 25°27 | 25°30 | 24°R45 | 26°10 | 9°31 | 11° 4 | S 17 | |
| M18 | 9 53 19 | 29°26'21 | 10♁28 | 7°48 | 6°37 | 2°24 | 2°28 | 27°45 | 2°21 | 25°25 | 25°31 | 24°44 | 26° 7 | 9°38 | 11° 0 | M18 | |
| T 19 | 9 57 16 | 0♁27'05 | 23°12 | 9°12 | 7°51 | 2°35 | 2°33 | 27°52 | 2°25 | 25°24 | 25°32 | 24°41 | 26° 3 | 9°44 | 10°55 | T 19 | |
| W20 | 10 1 12 | 1°27'48 | 6♁21 | 10°38 | 9° 6 | 2°45 | 2°38 | 28° 0 | 2°28 | 25°22 | 25°32 | 24°37 | 26° 0 | 9°51 | 10°50 | W20 | |
| T 21 | 10 5 9 | 2°28'30 | 19°59 | 12° 5 | 10°21 | 2°55 | 2°43 | 28° 7 | 2°31 | 25°20 | 25°33 | 24°30 | 25°57 | 9°57 | 10°46 | T 21 | |
| F 22 | 10 9 5 | 3°29'11 | 4♁ 5 | 13°32 | 11°35 | 3° 5 | 2°48 | 28°14 | 2°34 | 25°19 | 25°34 | 24°22 | 25°54 | 10° 4 | 10°41 | F 22 | |
| S 23 | 10 13 2 | 4°29'51 | 18°35 | 15° 1 | 12°50 | 3°14 | 2°53 | 28°21 | 2°37 | 25°17 | 25°35 | 24°13 | 25°51 | 10°11 | 10°37 | S 23 | |
| S 24 | 10 16 58 | 5°30'29 | 3♁25 | 16°30 | 14° 5 | 3°22 | 2°59 | 28°28 | 2°41 | 25°15 | 25°36 | 24° 5 | 25°48 | 10°17 | 10°32 | S 24 | |
| M25 | 10 20 55 | 6°31'06 | 18°25 | 18° 1 | 15°20 | 3°29 | 3° 5 | 28°35 | 2°44 | 25°14 | 25°37 | 23°59 | 25°44 | 10°24 | 10°27 | M25 | |
| T 26 | 10 24 52 | 7°31'42 | 3°V27 | 19°32 | 16°34 | 3°36 | 3°11 | 28°43 | 2°47 | 25°12 | 25°38 | 23°55 | 25°41 | 10°31 | 10°23 | T 26 | |
| W27 | 10 28 48 | 8°32'15 | 18°21 | 21° 4 | 17°49 | 3°42 | 3°17 | 28°50 | 2°50 | 25°10 | 25°39 | 23°D54 | 25°38 | 10°37 | 10°18 | W27 | |
| T 28 | 10 32 45 | 9♁32'48 | 3♁ 1 | 22♁38 | 19♁ 4 | 3III48 | 3II23 | 28♁57 | 2♁53 | 25♁ 9 | 25°V40 | 23°V54 | 25°V35 | 10♁44 | 10III13 | T 28 | |

Delta T = 19m03s

ASTRODIENST EPHEMERIS for the year 2582
geocentric

MARCH 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------|--------|--------|--------|-------|------|-------|------|--------|--------|--------|--------|-------|--------|------|---|---|---|---|---|---|---|-----|
| F 1 | 10 36 41 | 10♌33'18 | 17♋22 | 24♌12 | 20♌18 | 3♍53 | 3♎30 | 29♌4 | 2♌56 | 25°R 7 | 25°V41 | 23°V55 | 25°V32 | 10♌51 | 10°R 9 | F 1 | | | | | | | | |
| S 2 | 10 40 38 | 11°33'47 | 1♎22 | 25°47 | 21°33 | 3°57 | 3°36 | 29°11 | 2°59 | 25°L 5 | 25°42 | 23°56 | 25°28 | 10°57 | 10♎4 | S 2 | | | | | | | | |
| S 3 | 10 44 34 | 12°34'13 | 15° 2 | 27°23 | 22°48 | 4° 1 | 3°43 | 29°18 | 3° 2 | 25° 4 | 25°43 | 23°R57 | 25°25 | 11° 4 | 9°59 | S 3 | | | | | | | | |
| M 4 | 10 48 31 | 13°34'38 | 28°22 | 29° 0 | 24° 2 | 4° 4 | 3°50 | 29°25 | 3° 5 | 25° 2 | 25°45 | 23°55 | 25°22 | 11°11 | 9°55 | M 4 | | | | | | | | |
| T 5 | 10 52 27 | 14°35'01 | 11♌25 | 0♌38 | 25°17 | 4° 6 | 3°57 | 29°32 | 3° 8 | 25° 1 | 25°46 | 23°53 | 25°19 | 11°17 | 9°50 | T 5 | | | | | | | | |
| W 6 | 10 56 24 | 15°35'22 | 24°12 | 2°17 | 26°32 | 4° 8 | 4° 4 | 29°39 | 3°11 | 24°59 | 25°47 | 23°48 | 25°16 | 11°24 | 9°45 | W 6 | | | | | | | | |
| T 7 | 11 0 21 | 16°35'42 | 6♌46 | 3°57 | 27°47 | 4° 8 | 4°12 | 29°46 | 3°13 | 24°58 | 25°48 | 23°42 | 25°13 | 11°31 | 9°41 | T 7 | | | | | | | | |
| F 8 | 11 4 17 | 17°35'59 | 19° 8 | 5°38 | 29° 1 | 4°R 9 | 4°19 | 29°53 | 3°16 | 24°56 | 25°49 | 23°35 | 25° 9 | 11°37 | 9°36 | F 8 | | | | | | | | |
| S 9 | 11 8 14 | 18°36'14 | 1♎21 | 7°20 | 0♌16 | 4° 8 | 4°27 | 0♌ 0 | 3°19 | 24°54 | 25°50 | 23°28 | 25° 6 | 11°44 | 9°32 | S 9 | | | | | | | | |
| S 10 | 11 12 10 | 19°36'28 | 13°24 | 9° 3 | 1°31 | 4° 7 | 4°35 | 0° 7 | 3°22 | 24°53 | 25°51 | 23°23 | 25° 3 | 11°50 | 9°27 | S 10 | | | | | | | | |
| M 11 | 11 16 7 | 20°36'40 | 25°21 | 10°47 | 2°45 | 4° 4 | 4°43 | 0°14 | 3°24 | 24°51 | 25°53 | 23°18 | 25° 0 | 11°57 | 9°22 | M 11 | | | | | | | | |
| T 12 | 11 20 3 | 21°36'50 | 7♌12 | 12°32 | 4° 0 | 4° 2 | 4°51 | 0°21 | 3°27 | 24°50 | 25°54 | 23°15 | 24°57 | 12° 4 | 9°18 | T 12 | | | | | | | | |
| W 13 | 11 24 0 | 22°36'58 | 19° 0 | 14°18 | 5°15 | 3°58 | 4°59 | 0°28 | 3°30 | 24°49 | 25°55 | 23°D14 | 24°53 | 12°10 | 9°13 | W 13 | | | | | | | | |
| T 14 | 11 27 56 | 23°37'05 | 0♎47 | 16° 5 | 6°29 | 3°53 | 5° 8 | 0°35 | 3°32 | 24°47 | 25°56 | 23°14 | 24°50 | 12°17 | 9° 9 | T 14 | | | | | | | | |
| F 15 | 11 31 53 | 24°37'10 | 12°37 | 17°53 | 7°44 | 3°48 | 5°16 | 0°41 | 3°35 | 24°46 | 25°58 | 23°15 | 24°47 | 12°24 | 9° 5 | F 15 | | | | | | | | |
| S 16 | 11 35 49 | 25°37'14 | 24°32 | 19°42 | 8°58 | 3°42 | 5°25 | 0°48 | 3°37 | 24°44 | 25°59 | 23°17 | 24°44 | 12°30 | 9° 0 | S 16 | | | | | | | | |
| S 17 | 11 39 46 | 26°37'16 | 6♌38 | 21°33 | 10°13 | 3°36 | 5°33 | 0°55 | 3°40 | 24°43 | 26° 0 | 23°19 | 24°41 | 12°37 | 8°56 | S 17 | | | | | | | | |
| M 18 | 11 43 43 | 27°37'17 | 18°59 | 23°24 | 11°28 | 3°28 | 5°42 | 1° 2 | 3°42 | 24°42 | 26° 1 | 23°20 | 24°38 | 12°44 | 8°52 | M 18 | | | | | | | | |
| T 19 | 11 47 39 | 28°37'16 | 1♋39 | 25°17 | 12°42 | 3°20 | 5°51 | 1° 8 | 3°45 | 24°40 | 26° 3 | 23°R20 | 24°34 | 12°50 | 8°47 | T 19 | | | | | | | | |
| W 20 | 11 51 36 | 29°37'13 | 14°42 | 27°11 | 13°57 | 3°11 | 6° 1 | 1°15 | 3°47 | 24°39 | 26° 4 | 23°19 | 24°31 | 12°57 | 8°43 | W 20 | | | | | | | | |
| T 21 | 11 55 32 | 0♌37'09 | 28°12 | 29° 5 | 15°12 | 3° 1 | 6°10 | 1°21 | 3°49 | 24°38 | 26° 5 | 23°17 | 24°28 | 13° 4 | 8°39 | T 21 | | | | | | | | |
| F 22 | 11 59 29 | 1°37'03 | 12♌11 | 1°V 1 | 16°26 | 2°50 | 6°19 | 1°28 | 3°52 | 24°36 | 26° 6 | 23°15 | 24°25 | 13°10 | 8°35 | F 22 | | | | | | | | |
| S 23 | 12 3 25 | 2°36'55 | 26°36 | 2°58 | 17°41 | 2°39 | 6°29 | 1°35 | 3°54 | 24°35 | 26° 8 | 23°12 | 24°22 | 13°17 | 8°31 | S 23 | | | | | | | | |
| S 24 | 12 7 22 | 3°36'46 | 11♌25 | 4°55 | 18°55 | 2°27 | 6°39 | 1°41 | 3°56 | 24°34 | 26° 9 | 23° 9 | 24°19 | 13°24 | 8°27 | S 24 | | | | | | | | |
| M 25 | 12 11 18 | 4°36'35 | 26°30 | 6°53 | 20°10 | 2°14 | 6°48 | 1°47 | 3°58 | 24°33 | 26°10 | 23° 7 | 24°15 | 13°30 | 8°23 | M 25 | | | | | | | | |
| T 26 | 12 15 15 | 5°36'21 | 11°V43 | 8°52 | 21°25 | 2° 0 | 6°58 | 1°54 | 4° 0 | 24°31 | 26°12 | 23° 6 | 24°12 | 13°37 | 8°19 | T 26 | | | | | | | | |
| W 27 | 12 19 12 | 6°36'06 | 26°53 | 10°52 | 22°39 | 1°46 | 7° 8 | 2° 0 | 4° 3 | 24°30 | 26°13 | 23°D 6 | 24° 9 | 13°43 | 8°15 | W 27 | | | | | | | | |
| T 28 | 12 23 8 | 7°35'49 | 11♌51 | 12°52 | 23°54 | 1°31 | 7°18 | 2° 7 | 4° 5 | 24°29 | 26°15 | 23° 6 | 24° 6 | 13°50 | 8°11 | T 28 | | | | | | | | |
| F 29 | 12 27 5 | 8°35'30 | 26°31 | 14°52 | 25° 8 | 1°15 | 7°29 | 2°13 | 4° 7 | 24°28 | 26°16 | 23° 7 | 24° 3 | 13°57 | 8° 8 | F 29 | | | | | | | | |
| S 30 | 12 31 1 | 9°35'09 | 10♎47 | 16°52 | 26°23 | 0°58 | 7°39 | 2°19 | 4° 9 | 24°27 | 26°17 | 23° 8 | 23°59 | 14° 3 | 8° 4 | S 30 | | | | | | | | |
| S 31 | 12 34 58 | 10°V34'45 | 24♎38 | 18°V52 | 27°V37 | 0♎41 | 7♎49 | 2♌25 | 4♌10 | 24♌26 | 26°V19 | 23°V 9 | 23°V56 | 14♌10 | 8♎ 0 | S 31 | | | | | | | | |

Delta T = 19m03s

APRIL 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------|-------|--------|--------|-------|-------|------|------|--------|--------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|-----|
| M 1 | 12 38 54 | 11°V34'19 | 8♌ 3 | 20°V52 | 28°V52 | 0°R24 | 8♎ 0 | 2♌31 | 4♌12 | 24°R25 | 26°V20 | 23°R10 | 23°V53 | 14♌17 | 7°R57 | M 1 | | | | | | | | |
| T 2 | 12 42 51 | 12°33'51 | 21° 6 | 22°50 | 0°V 6 | 0♎ 5 | 8°11 | 2°38 | 4°14 | 24♌24 | 26°21 | 23°V10 | 23°50 | 14°23 | 7♎54 | T 2 | | | | | | | | |
| W 3 | 12 46 47 | 13°33'21 | 3♌48 | 24°48 | 1°21 | 29♌47 | 8°21 | 2°44 | 4°16 | 24°23 | 26°23 | 23° 9 | 23°47 | 14°30 | 7°50 | W 3 | | | | | | | | |
| T 4 | 12 50 44 | 14°32'48 | 16°12 | 26°44 | 2°35 | 29°27 | 8°32 | 2°50 | 4°18 | 24°22 | 26°24 | 23° 8 | 23°44 | 14°37 | 7°47 | T 4 | | | | | | | | |
| F 5 | 12 54 41 | 15°32'13 | 28°24 | 28°38 | 3°50 | 29° 7 | 8°43 | 2°55 | 4°19 | 24°21 | 26°26 | 23° 7 | 23°40 | 14°43 | 7°44 | F 5 | | | | | | | | |
| S 6 | 12 58 37 | 16°31'36 | 10♎25 | 0♌29 | 5° 4 | 28°47 | 8°54 | 3° 1 | 4°21 | 24°20 | 26°27 | 23° 6 | 23°37 | 14°50 | 7°41 | S 6 | | | | | | | | |
| S 7 | 13 2 34 | 17°30'56 | 22°20 | 2°18 | 6°19 | 28°26 | 9° 5 | 3° 7 | 4°23 | 24°19 | 26°28 | 23° 5 | 23°34 | 14°57 | 7°38 | S 7 | | | | | | | | |
| M 8 | 13 6 30 | 18°30'15 | 4♌10 | 4° 4 | 7°33 | 28° 5 | 9°16 | 3°13 | 4°24 | 24°18 | 26°30 | 23° 5 | 23°31 | 15° 3 | 7°35 | M 8 | | | | | | | | |
| T 9 | 13 10 27 | 19°29'31 | 15°57 | 5°46 | 8°48 | 27°43 | 9°28 | 3°19 | 4°26 | 24°17 | 26°31 | 23° 4 | 23°28 | 15°10 | 7°32 | T 9 | | | | | | | | |
| W 10 | 13 14 23 | 20°28'45 | 27°46 | 7°24 | 10° 2 | 27°21 | 9°39 | 3°24 | 4°27 | 24°16 | 26°33 | 23°D 4 | 23°25 | 15°17 | 7°30 | W 10 | | | | | | | | |
| T 11 | 13 18 20 | 21°27'58 | 9♎36 | 8°57 | 11°16 | 26°59 | 9°51 | 3°30 | 4°29 | 24°16 | 26°34 | 23° 4 | 23°21 | 15°23 | 7°27 | T 11 | | | | | | | | |
| F 12 | 13 22 16 | 22°27'08 | 21°31 | 10°26 | 12°31 | 26°37 | 10° 2 | 3°35 | 4°30 | 24°15 | 26°36 | 23° 5 | 23°18 | 15°30 | 7°24 | F 12 | | | | | | | | |
| S 13 | 13 26 13 | 23°26'17 | 3♌34 | 11°51 | 13°45 | 26°14 | 10°14 | 3°41 | 4°31 | 24°14 | 26°37 | 23°R 5 | 23°15 | 15°36 | 7°22 | S 13 | | | | | | | | |
| S 14 | 13 30 10 | 24°25'24 | 15°46 | 13° 9 | 15° 0 | 25°51 | 10°25 | 3°46 | 4°33 | 24°14 | 26°38 | 23° 4 | 23°12 | 15°43 | 7°20 | S 14 | | | | | | | | |
| M 15 | 13 34 6 | 25°24'29 | 28°12 | 14°22 | 16°14 | 25°28 | 10°37 | 3°52 | 4°34 | 24°13 | 26°40 | 23° 4 | 23° 9 | 15°50 | 7°17 | M 15 | | | | | | | | |
| T 16 | 13 38 3 | 26°23'32 | 10♌53 | 15°30 | 17°28 | 25° 5 | 10°49 | 3°57 | 4°35 | 24°12 | 26°41 | 23° 4 | 23° 5 | 15°56 | 7°15 | T 16 | | | | | | | | |
| W 17 | 13 41 59 | 27°22'34 | 23°54 | 16°31 | 18°43 | 24°42 | 11° 1 | 4° 2 | 4°36 | 24°12 | 26°43 | 23°D 4 | 23° 2 | 16° 3 | 7°13 | W 17 | | | | | | | | |
| T 18 | 13 45 56 | 28°21'34 | 7♌17 | 17°27 | 19°57 | 24°19 | 11°13 | 4° 8 | 4°37 | 24°11 | 26°44 | 23° 4 | 22°59 | 16°10 | 7°11 | T 18 | | | | | | | | |
| F 19 | 13 49 52 | 29°20'32 | 21° 4 | 18°16 | 21°11 | 23°55 | 11°25 | 4°13 | 4°38 | 24°11 | 26°46 | 23° 4 | 22°56 | 16°16 | 7° 9 | F 19 | | | | | | | | |
| S 20 | 13 53 49 | 0♌19'28 | 5♌16 | 18°59 | 22°26 | 23°32 | 11°37 | 4°18 | 4°39 | 24°10 | 26°47 | 23° 5 | 22°53 | 16°23 | 7° 8 | S 20 | | | | | | | | |
| S 21 | 13 57 45 | 1°18'23 | 19°50 | 19°35 | 23°40 | 23°10 | 11°50 | 4°23 | 4°40 | 24°10 | 26°48 | 23° 6 | 22°50 | 16°30 | 7° 6 | S 21 | | | | | | | | |
| M 22 | 14 1 42 | 2°17'16 | 4°V43 | 20° 5 | 24°54 | 22°47 | 12° 2 | 4°28 | 4°41 | 24° 9 | 26°50 | 23° 6 | 22°46 | 16°36 | 7° 4 | M 22 | | | | | | | | |
| T 23 | 14 5 39 | 3°16'07 | 19°49 | 20°29 | 26° 9 | 22°24 | 12°14 | 4°32 | 4°42 | 24° 9 | 26°51 | 23°R 6 | 22°43 | 16°43 | 7° 3 | T 23 | | | | | | | | |
| W 24 | 14 9 35 | 4°14'56 | 4♌58 | 20°46 | 27°23 | 22° 2 | 12°27 | 4°37 | 4°43 | 24° 9 | 26°53 | 23° 6 | 22°40 | 16°50 | 7° 2 | W 24 | | | | | | | | |
| T 25 | 14 13 32 | 5°13'43 | 20° 2 | 20°56 | 28°37 | 21°40 | 12°39 | 4°42 | 4°43 | 24° 8 | 26°54 | 23° 6 | 22°37 | 16°56 | 7° 0 | T 25 | | | | | | | | |
| F 26 | 14 17 28 | 6°12'29 | 4♎51 | 21°R 1 | 29°51 | 21°19 | 12°52 | 4°47 | 4°44 | 24° 8 | 26°55 | 23° 4 | 22°34 | 17° 3 | 6°59 | F 26 | | | | | | | | |
| S 27 | 14 21 25 | 7°11'12 | 19°19 | 20°59 | 1♌ 6 | 20°58 | 13° 4 | 4°51 | 4°45 | 24° 8 | 26°57 | 23° 2 | 22°30 | 17°10 | 6°58 | S 27 | | | | | | | | |
| S 28 | 14 25 21 | 8° 9'53 | 3♌21 | 20°51 | 2°20 | 20°37 | 13°17 | 4°56 | 4°45 | 24° 7 | 26°58 | 23° 1 | 22°27 | 17°16 | 6°57 | S 28 | | | | | | | | |
| M 29 | 14 29 18 | 9° 8'32 | 16°56 | 20°38 | 3°34 | 20°17 | 13°30 | 5° 0 | 4°46 | 24° 7 | 27° 0 | 22°59 | 22°24 | 17°23 | 6°56 | M 29 | | | | | | | | |
| T 30 | 14 33 14 | 10♌ 7'09 | 0♌ 4 | 20♌20 | 4♌48 | 19♌57 | 1 | | | | | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2582
geocentric

MAY 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|--------|--------|-------|--------|-------|------|-------|--------|--------|--------|--------|-------|-------|------|-----|
| W 1 | 14 37 11 | 11♌ 5'44 | 12♌48 | 19°R57 | 6♌ 2 | 19°R38 | 13♌55 | 5♌ 9 | 4♌47 | 24°R 7 | 27°V 3 | 22°D58 | 22°V18 | 17♌36 | 6°R55 | W 1 | |
| T 2 | 14 41 8 | 12° 4'16 | 25°12 | 19♌29 | 7°16 | 19♌19 | 14° 8 | 5°13 | 4°47 | 24♌ 7 | 27° 4 | 22°V58 | 22°15 | 17°43 | 6♌55 | T 2 | |
| F 3 | 14 45 4 | 13° 2'46 | 7♌20 | 18°58 | 8°31 | 19° 1 | 14°21 | 5°17 | 4°47 | 24° 7 | 27° 5 | 22°59 | 22°11 | 17°49 | 6°54 | F 3 | |
| S 4 | 14 49 1 | 14° 1'14 | 19°16 | 18°24 | 9°45 | 18°44 | 14°34 | 5°21 | 4°48 | 24° 7 | 27° 7 | 23° 1 | 22° 8 | 17°56 | 6°54 | S 4 | |
| S 5 | 14 52 57 | 14°59'40 | 1♌ 6 | 17°47 | 10°59 | 18°27 | 14°47 | 5°25 | 4°48 | 24°D 7 | 27° 8 | 23° 3 | 22° 5 | 18° 3 | 6°54 | S 5 | |
| M 6 | 14 56 54 | 15°58'04 | 12°53 | 17° 9 | 12°13 | 18°11 | 15° 0 | 5°29 | 4°48 | 24° 7 | 27° 9 | 23° 4 | 22° 2 | 18° 9 | 6°D54 | M 6 | |
| T 7 | 15 0 50 | 16°56'26 | 24°41 | 16°29 | 13°27 | 17°56 | 15°14 | 5°32 | 4°48 | 24° 7 | 27°11 | 23°R 4 | 21°59 | 18°16 | 6°54 | T 7 | |
| W 8 | 15 4 47 | 17°54'47 | 6♌32 | 15°49 | 14°41 | 17°41 | 15°27 | 5°36 | 4°48 | 24° 7 | 27°12 | 23° 3 | 21°56 | 18°23 | 6°54 | W 8 | |
| T 9 | 15 8 43 | 18°53'05 | 18°29 | 15°10 | 15°55 | 17°27 | 15°40 | 5°40 | 4°R48 | 24° 7 | 27°13 | 23° 1 | 21°52 | 18°29 | 6°54 | T 9 | |
| F 10 | 15 12 40 | 19°51'22 | 0♌34 | 14°32 | 17° 9 | 17°14 | 15°53 | 5°43 | 4°48 | 24° 7 | 27°15 | 22°58 | 21°49 | 18°36 | 6°55 | F 10 | |
| S 11 | 15 16 37 | 20°49'37 | 12°49 | 13°55 | 18°23 | 17° 2 | 16° 7 | 5°47 | 4°48 | 24° 7 | 27°16 | 22°54 | 21°46 | 18°43 | 6°55 | S 11 | |
| S 12 | 15 20 33 | 21°47'50 | 25°15 | 13°21 | 19°37 | 16°50 | 16°20 | 5°50 | 4°48 | 24° 8 | 27°17 | 22°49 | 21°43 | 18°49 | 6°56 | S 12 | |
| M13 | 15 24 30 | 22°46'02 | 7♌53 | 12°50 | 20°51 | 16°39 | 16°33 | 5°53 | 4°48 | 24° 8 | 27°19 | 22°44 | 21°40 | 18°56 | 6°57 | M13 | |
| T 14 | 15 28 26 | 23°44'13 | 20°45 | 12°22 | 22° 5 | 16°29 | 16°47 | 5°57 | 4°47 | 24° 8 | 27°20 | 22°40 | 21°36 | 19° 2 | 6°58 | T 14 | |
| W15 | 15 32 23 | 24°42'21 | 3♌52 | 11°57 | 23°19 | 16°19 | 17° 0 | 6° 0 | 4°47 | 24° 9 | 27°21 | 22°37 | 21°33 | 19° 9 | 6°58 | W15 | |
| T 16 | 15 36 19 | 25°40'29 | 17°15 | 11°37 | 24°33 | 16°11 | 17°14 | 6° 3 | 4°47 | 24° 9 | 27°23 | 22°36 | 21°30 | 19°16 | 7° 0 | T 16 | |
| F 17 | 15 40 16 | 26°38'35 | 0♌56 | 11°21 | 25°47 | 16° 3 | 17°27 | 6° 6 | 4°46 | 24° 9 | 27°24 | 22°D35 | 21°27 | 19°22 | 7° 1 | F 17 | |
| S 18 | 15 44 12 | 27°36'40 | 14°55 | 11°10 | 27° 1 | 15°56 | 17°41 | 6° 9 | 4°46 | 24°10 | 27°25 | 22°36 | 21°24 | 19°29 | 7° 2 | S 18 | |
| S 19 | 15 48 9 | 28°34'43 | 29°13 | 11° 3 | 28°15 | 15°50 | 17°54 | 6°11 | 4°46 | 24°10 | 27°26 | 22°38 | 21°21 | 19°36 | 7° 3 | S 19 | |
| M20 | 15 52 6 | 29°32'45 | 13°V46 | 11°D 1 | 29°29 | 15°44 | 18° 8 | 6°14 | 4°45 | 24°11 | 27°28 | 22°39 | 21°17 | 19°42 | 7° 5 | M20 | |
| T 21 | 15 56 2 | 0♌30'46 | 28°32 | 11° 4 | 0♌43 | 15°40 | 18°22 | 6°17 | 4°44 | 24°11 | 27°29 | 22°R39 | 21°14 | 19°49 | 7° 6 | T 21 | |
| W22 | 15 59 59 | 1°28'45 | 13♌25 | 11°11 | 1°57 | 15°36 | 18°35 | 6°19 | 4°44 | 24°12 | 27°30 | 22°37 | 21°11 | 19°56 | 7° 8 | W22 | |
| T 23 | 16 3 55 | 2°26'43 | 28°17 | 11°22 | 3°11 | 15°33 | 18°49 | 6°21 | 4°43 | 24°12 | 27°31 | 22°34 | 21° 8 | 20° 2 | 7°10 | T 23 | |
| F 24 | 16 7 52 | 3°24'40 | 13♌ 0 | 11°39 | 4°25 | 15°31 | 19° 3 | 6°24 | 4°42 | 24°13 | 27°33 | 22°29 | 21° 5 | 20° 9 | 7°12 | F 24 | |
| S 25 | 16 11 48 | 4°22'35 | 27°27 | 11°59 | 5°39 | 15°29 | 19°17 | 6°26 | 4°42 | 24°14 | 27°34 | 22°23 | 21° 2 | 20°16 | 7°14 | S 25 | |
| S 26 | 16 15 45 | 5°20'29 | 11♌32 | 12°24 | 6°53 | 15°D29 | 19°30 | 6°28 | 4°41 | 24°14 | 27°35 | 22°16 | 20°58 | 20°22 | 7°16 | S 26 | |
| M27 | 16 19 41 | 6°18'21 | 25°11 | 12°54 | 8° 7 | 15°29 | 19°44 | 6°30 | 4°40 | 24°15 | 27°36 | 22°10 | 20°55 | 20°29 | 7°18 | M27 | |
| T 28 | 16 23 38 | 7°16'11 | 8♌24 | 13°27 | 9°21 | 15°30 | 19°58 | 6°32 | 4°39 | 24°16 | 27°37 | 22° 5 | 20°52 | 20°36 | 7°21 | T 28 | |
| W29 | 16 27 35 | 8°14'00 | 21°11 | 14° 4 | 10°34 | 15°32 | 20°12 | 6°34 | 4°38 | 24°17 | 27°38 | 22° 1 | 20°49 | 20°42 | 7°23 | W29 | |
| T 30 | 16 31 31 | 9°11'47 | 3♌37 | 14°45 | 11°48 | 15°34 | 20°26 | 6°36 | 4°37 | 24°17 | 27°40 | 22° 0 | 20°46 | 20°49 | 7°26 | T 30 | |
| F 31 | 16 35 28 | 10♌ 9'32 | 15♌46 | 15♌30 | 13♌ 2 | 15♌37 | 20♌39 | 6♌37 | 4♌36 | 24♌18 | 27°V41 | 22°D 0 | 20°V42 | 20♌55 | 7♌28 | F 31 | |

Delta T = 19m04s

JUNE 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|------|------|-----|
| S 1 | 16 39 24 | 11♌ 7'16 | 27♌42 | 16♌18 | 14♌16 | 15♌41 | 20♌53 | 6♌39 | 4°R35 | 24♌19 | 27°V42 | 22°V 1 | 20°V39 | 21♌ 2 | 7♌31 | S 1 | |
| S 2 | 16 43 21 | 12° 4'58 | 9♌31 | 17°10 | 15°30 | 15°46 | 21° 7 | 6°40 | 4♌34 | 24°20 | 27°43 | 22° 2 | 20°36 | 21° 9 | 7°34 | S 2 | |
| M 3 | 16 47 17 | 13° 2'38 | 21°18 | 18° 6 | 16°44 | 15°51 | 21°21 | 6°41 | 4°33 | 24°21 | 27°44 | 22°R 2 | 20°33 | 21°15 | 7°37 | M 3 | |
| T 4 | 16 51 14 | 14° 0'17 | 3♌ 8 | 19° 4 | 17°57 | 15°57 | 21°35 | 6°43 | 4°32 | 24°22 | 27°45 | 22° 2 | 20°30 | 21°22 | 7°40 | T 4 | |
| W 5 | 16 55 10 | 14°57'55 | 15° 4 | 20° 6 | 19°11 | 16° 4 | 21°49 | 6°44 | 4°30 | 24°23 | 27°46 | 21°59 | 20°27 | 21°29 | 7°43 | W 5 | |
| T 6 | 16 59 7 | 15°55'32 | 27°10 | 21°11 | 20°25 | 16°11 | 22° 3 | 6°45 | 4°29 | 24°24 | 27°47 | 21°54 | 20°23 | 21°35 | 7°46 | T 6 | |
| F 7 | 17 3 4 | 16°53'07 | 9♌27 | 22°19 | 21°39 | 16°19 | 22°17 | 6°46 | 4°28 | 24°25 | 27°48 | 21°47 | 20°20 | 21°42 | 7°50 | F 7 | |
| S 8 | 17 7 0 | 17°50'41 | 21°58 | 23°30 | 22°52 | 16°28 | 22°31 | 6°47 | 4°26 | 24°26 | 27°49 | 21°38 | 20°17 | 21°49 | 7°53 | S 8 | |
| S 9 | 17 10 57 | 18°48'15 | 4♌42 | 24°44 | 24° 6 | 16°37 | 22°45 | 6°48 | 4°25 | 24°27 | 27°50 | 21°28 | 20°14 | 21°55 | 7°57 | S 9 | |
| M10 | 17 14 53 | 19°45'47 | 17°39 | 26° 0 | 25°20 | 16°47 | 22°59 | 6°48 | 4°23 | 24°28 | 27°51 | 21°18 | 20°11 | 22° 2 | 8° 0 | M10 | |
| T 11 | 17 18 50 | 20°43'18 | 0♌50 | 27°20 | 26°34 | 16°58 | 23°13 | 6°49 | 4°22 | 24°30 | 27°52 | 21° 9 | 20° 8 | 22° 9 | 8° 4 | T 11 | |
| W12 | 17 22 46 | 21°40'48 | 14°12 | 28°42 | 27°47 | 17° 9 | 23°27 | 6°49 | 4°20 | 24°31 | 27°53 | 21° 2 | 20° 4 | 22°15 | 8° 8 | W12 | |
| T 13 | 17 26 43 | 22°38'18 | 27°46 | 0♌ 7 | 29° 1 | 17°21 | 23°40 | 6°50 | 4°19 | 24°32 | 27°54 | 20°57 | 20° 1 | 22°22 | 8°12 | T 13 | |
| F 14 | 17 30 40 | 23°35'47 | 11♌31 | 1°35 | 0♌15 | 17°33 | 23°54 | 6°50 | 4°17 | 24°33 | 27°55 | 20°55 | 19°58 | 22°28 | 8°16 | F 14 | |
| S 15 | 17 34 36 | 24°33'15 | 25°27 | 3° 6 | 1°29 | 17°46 | 24° 8 | 6°50 | 4°16 | 24°34 | 27°56 | 20°D54 | 19°55 | 22°35 | 8°20 | S 15 | |
| S 16 | 17 38 33 | 25°30'42 | 9°V33 | 4°39 | 2°42 | 17°59 | 24°22 | 6°R50 | 4°14 | 24°36 | 27°56 | 20°55 | 19°52 | 22°42 | 8°24 | S 16 | |
| M17 | 17 42 29 | 26°28'09 | 23°49 | 6°15 | 3°56 | 18°13 | 24°36 | 6°50 | 4°12 | 24°37 | 27°57 | 20°R55 | 19°48 | 22°48 | 8°28 | M17 | |
| T 18 | 17 46 26 | 27°25'35 | 8♌14 | 7°53 | 5°10 | 18°28 | 24°50 | 6°50 | 4°10 | 24°38 | 27°58 | 20°54 | 19°45 | 22°55 | 8°33 | T 18 | |
| W19 | 17 50 22 | 28°23'01 | 22°43 | 9°34 | 6°24 | 18°43 | 25° 4 | 6°50 | 4° 9 | 24°40 | 27°59 | 20°50 | 19°42 | 23° 2 | 8°37 | W19 | |
| T 20 | 17 54 19 | 29°20'27 | 7♌12 | 11°18 | 7°37 | 18°59 | 25°18 | 6°49 | 4° 7 | 24°41 | 28° 0 | 20°44 | 19°39 | 23° 8 | 8°42 | T 20 | |
| F 21 | 17 58 15 | 0♌17'51 | 21°36 | 13° 5 | 8°51 | 19°15 | 25°32 | 6°49 | 4° 5 | 24°43 | 28° 0 | 20°36 | 19°36 | 23°15 | 8°46 | F 21 | |
| S 22 | 18 2 12 | 1°15'15 | 5♌48 | 14°54 | 10° 5 | 19°32 | 25°46 | 6°49 | 4° 3 | 24°44 | 28° 1 | 20°26 | 19°33 | 23°22 | 8°51 | S 22 | |
| S 23 | 18 6 9 | 2°12'39 | 19°42 | 16°45 | 11°18 | 19°49 | 26° 0 | 6°48 | 4° 1 | 24°46 | 28° 2 | 20°15 | 19°29 | 23°28 | 8°56 | S 23 | |
| M24 | 18 10 5 | 3°10'01 | 3♌16 | 18°39 | 12°32 | 20° 7 | 26°14 | 6°47 | 3°59 | 24°47 | 28° 3 | 20° 4 | 19°26 | 23°35 | 9° 1 | M24 | |
| T 25 | 18 14 2 | 4° 7'23 | 16°26 | 20°36 | 13°46 | 20°25 | 26°28 | 6°46 | 3°57 | 24°49 | 28° 3 | 19°55 | 19°23 | 23°42 | 9° 6 | T 25 | |
| W26 | 18 17 58 | 5° 4'43 | 29°13 | 22°34 | 14°59 | 20°44 | 26°42 | 6°46 | 3°55 | 24°50 | 28° 4 | 19°48 | 19°20 | 23°48 | 9°11 | W26 | |
| T 27 | 18 21 55 | 6° 2'03 | 11♌39 | 24°35 | 16°13 | 21° 3 | 26°55 | 6°45 | 3°53 | 24°52 | 28° 5 | 19°43 | 19°17 | 23°55 | 9°16 | T 27 | |
| F 28 | 18 25 51 | 6°59'22 | 23°48 | 26°38 | 17°27 | 21°22 | 27° 9 | 6°43 | 3°51 | 24°53 | 28° 5 | 19°41 | 19°14 | 24° 2 | 9°21 | F 28 | |
| S 29 | 18 29 48 | 7°56'41 | 5♌45 | 28°43 | 18°40 | 21°43 | 27°23 | 6°42 | 3°49 | 24°55 | 28° 6 | 19°D40 | 19°10 | 24° 8 | 9°26 | S 29 | |
| S 30 | 18 33 44 | 8°53'58 | 17♌35 | 0♌50 | 19♌54 | 22♌ 3 | 27♌37 | 6♌41 | 3♌47 | 24♌57 | 28°V 7 | 19°R40 | 19°V 7 | 24♌15 | 9♌32 | S 30 | |

Delta T = 19m04s

ASTRODIENST EPHEMERIS for the year 2582
geocentric

JULY 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|------|-----|
| M 1 | 18 37 41 | 9♄51'15 | 29♂23 | 2♄58 | 21♄8 | 22♂24 | 27♂51 | 6°R40 | 3°R45 | 24♂58 | 28°V 7 | 19°R40 | 19°V 4 | 24♂21 | 9♂37 | M 1 | |
| T 2 | 18 41 38 | 10°48'31 | 11♂15 | 5° 7 | 22°21 | 22°45 | 28° 4 | 6♂38 | 3♂43 | 25° 0 | 28° 8 | 19°V38 | 19° 1 | 24°28 | 9°43 | T 2 | |
| W 3 | 18 45 34 | 11°45'47 | 23°16 | 7°17 | 23°35 | 23° 7 | 28°18 | 6°37 | 3°41 | 25° 2 | 28° 8 | 19°35 | 18°58 | 24°35 | 9°48 | W 3 | |
| T 4 | 18 49 31 | 12°43'02 | 5♂29 | 9°28 | 24°48 | 23°29 | 28°32 | 6°35 | 3°38 | 25° 3 | 28° 9 | 19°28 | 18°54 | 24°41 | 9°54 | T 4 | |
| F 5 | 18 53 27 | 13°40'16 | 17°58 | 11°39 | 26° 2 | 23°52 | 28°45 | 6°33 | 3°36 | 25° 5 | 28° 9 | 19°19 | 18°51 | 24°48 | 10° 0 | F 5 | |
| S 6 | 18 57 24 | 14°37'30 | 0♄44 | 13°50 | 27°16 | 24°15 | 28°59 | 6°31 | 3°34 | 25° 7 | 28°10 | 19° 8 | 18°48 | 24°55 | 10° 5 | S 6 | |
| S 7 | 19 1 20 | 15°34'44 | 13°47 | 16° 2 | 28°29 | 24°38 | 29°13 | 6°29 | 3°32 | 25° 9 | 28°10 | 18°56 | 18°45 | 25° 1 | 10°11 | S 7 | |
| M 8 | 19 5 17 | 16°31'58 | 27° 6 | 18°12 | 29°43 | 25° 1 | 29°26 | 6°27 | 3°30 | 25°11 | 28°11 | 18°44 | 18°42 | 25° 8 | 10°17 | M 8 | |
| T 9 | 19 9 13 | 17°29'11 | 10♂40 | 20°22 | 0♄56 | 25°25 | 29°40 | 6°25 | 3°27 | 25°12 | 28°11 | 18°33 | 18°39 | 25°15 | 10°23 | T 9 | |
| W10 | 19 13 10 | 18°26'24 | 24°25 | 22°32 | 2°10 | 25°50 | 29°54 | 6°23 | 3°25 | 25°14 | 28°11 | 18°24 | 18°35 | 25°21 | 10°29 | W10 | |
| T 11 | 19 17 7 | 19°23'38 | 8♂19 | 24°40 | 3°23 | 26°15 | 0♄7 | 6°21 | 3°23 | 25°16 | 28°12 | 18°17 | 18°32 | 25°28 | 10°36 | T 11 | |
| F 12 | 19 21 3 | 20°20'51 | 22°18 | 26°47 | 4°37 | 26°40 | 0°21 | 6°19 | 3°20 | 25°18 | 28°12 | 18°13 | 18°29 | 25°35 | 10°42 | F 12 | |
| S 13 | 19 25 0 | 21°18'04 | 6°V22 | 28°52 | 5°50 | 27° 5 | 0°34 | 6°16 | 3°18 | 25°20 | 28°13 | 18°12 | 18°26 | 25°41 | 10°48 | S 13 | |
| S 14 | 19 28 56 | 22°15'18 | 20°28 | 0♄56 | 7° 4 | 27°31 | 0°47 | 6°14 | 3°16 | 25°22 | 28°13 | 18°12 | 18°23 | 25°48 | 10°54 | S 14 | |
| M15 | 19 32 53 | 23°12'32 | 4♂36 | 2°58 | 8°17 | 27°57 | 1° 1 | 6°11 | 3°13 | 25°24 | 28°13 | 18°12 | 18°20 | 25°54 | 11° 1 | M15 | |
| T 16 | 19 36 49 | 24° 9'46 | 18°45 | 4°59 | 9°31 | 28°23 | 1°14 | 6° 8 | 3°11 | 25°26 | 28°13 | 18°10 | 18°16 | 26° 1 | 11° 7 | T 16 | |
| W17 | 19 40 46 | 25° 7'01 | 2♂53 | 6°57 | 10°44 | 28°50 | 1°27 | 6° 6 | 3° 9 | 25°28 | 28°14 | 18° 6 | 18°13 | 26° 8 | 11°14 | W17 | |
| T 18 | 19 44 42 | 26° 4'16 | 16°57 | 8°54 | 11°58 | 29°17 | 1°41 | 6° 3 | 3° 6 | 25°30 | 28°14 | 18° 0 | 18°10 | 26°14 | 11°20 | T 18 | |
| F 19 | 19 48 39 | 27° 1'32 | 0♄56 | 10°49 | 13°11 | 29°44 | 1°54 | 6° 0 | 3° 4 | 25°32 | 28°14 | 17°51 | 18° 7 | 26°21 | 11°27 | F 19 | |
| S 20 | 19 52 36 | 27°58'47 | 14°44 | 12°42 | 14°25 | 0♂12 | 2° 7 | 5°57 | 3° 1 | 25°34 | 28°14 | 17°40 | 18° 4 | 26°28 | 11°34 | S 20 | |
| S 21 | 19 56 32 | 28°56'03 | 28°18 | 14°34 | 15°38 | 0°40 | 2°20 | 5°54 | 2°59 | 25°36 | 28°15 | 17°28 | 18° 0 | 26°34 | 11°41 | S 21 | |
| M22 | 20 0 29 | 29°53'19 | 11♂36 | 16°23 | 16°52 | 1° 8 | 2°33 | 5°51 | 2°57 | 25°38 | 28°15 | 17°16 | 17°57 | 26°41 | 11°47 | M22 | |
| T 23 | 20 4 25 | 0♄50'36 | 24°35 | 18°10 | 18° 5 | 1°36 | 2°46 | 5°47 | 2°54 | 25°40 | 28°15 | 17° 6 | 17°54 | 26°48 | 11°54 | T 23 | |
| W24 | 20 8 22 | 1°47'52 | 7♂14 | 19°56 | 19°19 | 2° 5 | 2°59 | 5°44 | 2°52 | 25°42 | 28°15 | 16°58 | 17°51 | 26°54 | 12° 1 | W24 | |
| T 25 | 20 12 18 | 2°45'08 | 19°36 | 21°39 | 20°32 | 2°34 | 3°12 | 5°41 | 2°49 | 25°44 | 28°15 | 16°53 | 17°48 | 27° 1 | 12° 8 | T 25 | |
| F 26 | 20 16 15 | 3°42'25 | 1♄43 | 23°21 | 21°46 | 3° 3 | 3°25 | 5°37 | 2°47 | 25°46 | 28°15 | 16°50 | 17°45 | 27° 8 | 12°15 | F 26 | |
| S 27 | 20 20 12 | 4°39'41 | 13°39 | 25° 0 | 22°59 | 3°33 | 3°38 | 5°34 | 2°44 | 25°48 | 28°15 | 16°D49 | 17°41 | 27°14 | 12°22 | S 27 | |
| S 28 | 20 24 8 | 5°36'58 | 25°29 | 26°38 | 24°13 | 4° 3 | 3°51 | 5°30 | 2°42 | 25°50 | 28°R15 | 16°49 | 17°38 | 27°21 | 12°29 | S 28 | |
| M29 | 20 28 5 | 6°34'15 | 7♂18 | 28°14 | 25°26 | 4°33 | 4° 4 | 5°27 | 2°40 | 25°52 | 28°15 | 16°R49 | 17°35 | 27°28 | 12°37 | M29 | |
| T 30 | 20 32 1 | 7°31'32 | 19°11 | 29°48 | 26°39 | 5° 3 | 4°16 | 5°23 | 2°37 | 25°54 | 28°15 | 16°48 | 17°32 | 27°34 | 12°44 | T 30 | |
| W31 | 20 35 58 | 8♂28'50 | 1♂13 | 1♂20 | 27♂53 | 5♂34 | 4♄29 | 5♂19 | 2♂35 | 25♂56 | 28°V15 | 16°V46 | 17°V29 | 27♂41 | 12♂51 | W31 | |

Delta T = 19m05s

AUGUST 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|------|-----|
| T 1 | 20 39 54 | 9♂26'08 | 13♂30 | 2♂50 | 29♂6 | 6♂5 | 4♄42 | 5°R16 | 2°R32 | 25♂59 | 28°R15 | 16°R41 | 17°V26 | 27♂47 | 12♂58 | T 1 | |
| F 2 | 20 43 51 | 10°23'26 | 26° 6 | 4°18 | 0♂20 | 6°36 | 4°54 | 5♂12 | 2♂30 | 26° 1 | 28°V15 | 16°V34 | 17°22 | 27°54 | 13° 6 | F 2 | |
| S 3 | 20 47 47 | 11°20'44 | 9♄2 | 5°44 | 1°33 | 7° 7 | 5° 7 | 5° 8 | 2°28 | 26° 3 | 28°15 | 16°26 | 17°19 | 28° 1 | 13°13 | S 3 | |
| S 4 | 20 51 44 | 12°18'03 | 22°20 | 7° 8 | 2°46 | 7°39 | 5°19 | 5° 4 | 2°25 | 26° 5 | 28°15 | 16°15 | 17°16 | 28° 7 | 13°21 | S 4 | |
| M 5 | 20 55 41 | 13°15'23 | 5♂58 | 8°30 | 4° 0 | 8°10 | 5°31 | 5° 0 | 2°23 | 26° 7 | 28°14 | 16° 5 | 17°13 | 28°14 | 13°28 | M 5 | |
| T 6 | 20 59 37 | 14°12'43 | 19°55 | 9°50 | 5°13 | 8°42 | 5°44 | 4°56 | 2°21 | 26° 9 | 28°14 | 15°56 | 17°10 | 28°21 | 13°36 | T 6 | |
| W 7 | 21 3 34 | 15°10'03 | 4♂5 | 11° 8 | 6°26 | 9°15 | 5°56 | 4°52 | 2°18 | 26°12 | 28°14 | 15°48 | 17° 6 | 28°27 | 13°43 | W 7 | |
| T 8 | 21 7 30 | 16° 7'25 | 18°24 | 12°24 | 7°39 | 9°47 | 6° 8 | 4°48 | 2°16 | 26°14 | 28°14 | 15°43 | 17° 3 | 28°34 | 13°51 | T 8 | |
| F 9 | 21 11 27 | 17° 4'47 | 2°V46 | 13°38 | 8°53 | 10°20 | 6°20 | 4°44 | 2°14 | 26°16 | 28°14 | 15°40 | 17° 0 | 28°41 | 13°59 | F 9 | |
| S 10 | 21 15 23 | 18° 2'11 | 17° 7 | 14°49 | 10° 6 | 10°52 | 6°32 | 4°40 | 2°11 | 26°18 | 28°13 | 15°D40 | 16°57 | 28°47 | 14° 6 | S 10 | |
| S 11 | 21 19 20 | 18°59'35 | 1♂24 | 15°58 | 11°19 | 11°25 | 6°44 | 4°35 | 2° 9 | 26°20 | 28°13 | 15°40 | 16°54 | 28°54 | 14°14 | S 11 | |
| M12 | 21 23 16 | 19°57'01 | 15°35 | 17° 4 | 12°32 | 11°59 | 6°56 | 4°31 | 2° 7 | 26°23 | 28°13 | 15°R41 | 16°51 | 29° 1 | 14°22 | M12 | |
| T 13 | 21 27 13 | 20°54'28 | 29°39 | 18° 8 | 13°46 | 12°32 | 7° 8 | 4°27 | 2° 5 | 26°25 | 28°12 | 15°41 | 16°47 | 29° 7 | 14°29 | T 13 | |
| W14 | 21 31 10 | 21°51'56 | 13♂34 | 19°10 | 14°59 | 13° 6 | 7°19 | 4°22 | 2° 2 | 26°27 | 28°12 | 15°39 | 16°44 | 29°14 | 14°37 | W14 | |
| T 15 | 21 35 6 | 22°49'25 | 27°19 | 20° 9 | 16°12 | 13°40 | 7°31 | 4°18 | 2° 0 | 26°29 | 28°12 | 15°35 | 16°41 | 29°21 | 14°45 | T 15 | |
| F 16 | 21 39 3 | 23°46'56 | 10♄54 | 21° 4 | 17°25 | 14°14 | 7°43 | 4°14 | 1°58 | 26°32 | 28°11 | 15°28 | 16°38 | 29°27 | 14°53 | F 16 | |
| S 17 | 21 42 59 | 24°44'28 | 24°18 | 21°57 | 18°38 | 14°48 | 7°54 | 4° 9 | 1°56 | 26°34 | 28°11 | 15°21 | 16°35 | 29°34 | 15° 1 | S 17 | |
| S 18 | 21 46 56 | 25°42'01 | 7♂28 | 22°47 | 19°51 | 15°22 | 8° 6 | 4° 5 | 1°54 | 26°36 | 28°11 | 15°12 | 16°32 | 29°40 | 15° 9 | S 18 | |
| M19 | 21 50 52 | 26°39'35 | 20°24 | 23°33 | 21° 5 | 15°57 | 8°17 | 4° 0 | 1°51 | 26°38 | 28°10 | 15° 4 | 16°28 | 29°47 | 15°17 | M19 | |
| T 20 | 21 54 49 | 27°37'10 | 3♂6 | 24°16 | 22°18 | 16°32 | 8°28 | 3°56 | 1°49 | 26°40 | 28°10 | 14°56 | 16°25 | 29°54 | 15°25 | T 20 | |
| W21 | 21 58 45 | 28°34'46 | 15°33 | 24°55 | 23°31 | 17° 7 | 8°39 | 3°52 | 1°47 | 26°43 | 28° 9 | 14°51 | 16°22 | 0♂0 | 15°33 | W21 | |
| T 22 | 22 2 42 | 29°32'23 | 27°46 | 25°31 | 24°44 | 17°42 | 8°50 | 3°47 | 1°45 | 26°45 | 28° 9 | 14°47 | 16°19 | 0° 7 | 15°41 | T 22 | |
| F 23 | 22 6 39 | 0♂30'01 | 9♄48 | 26° 2 | 25°57 | 18°17 | 9° 1 | 3°43 | 1°43 | 26°47 | 28° 8 | 14°D46 | 16°16 | 0°14 | 15°49 | F 23 | |
| S 24 | 22 10 35 | 1°27'40 | 21°41 | 26°29 | 27°10 | 18°53 | 9°12 | 3°38 | 1°41 | 26°49 | 28° 8 | 14°46 | 16°12 | 0°20 | 15°57 | S 24 | |
| S 25 | 22 14 32 | 2°25'20 | 3♂29 | 26°52 | 28°23 | 19°29 | 9°23 | 3°34 | 1°39 | 26°52 | 28° 7 | 14°47 | 16° 9 | 0°27 | 16° 5 | S 25 | |
| M26 | 22 18 28 | 3°23'01 | 15°17 | 27°10 | 29°36 | 20° 5 | 9°34 | 3°29 | 1°37 | 26°54 | 28° 6 | 14°48 | 16° 6 | 0°34 | 16°13 | M26 | |
| T 27 | 22 22 25 | 4°20'44 | 27°10 | 27°23 | 0♄49 | 20°41 | 9°44 | 3°25 | 1°35 | 26°56 | 28° 6 | 14°50 | 16° 3 | 0°40 | 16°21 | T 27 | |
| W28 | 22 26 21 | 5°18'27 | 9♂12 | 27°30 | 2° 2 | 21°17 | 9°55 | 3°20 | 1°33 | 26°58 | 28° 5 | 14°R50 | 16° 0 | 0°47 | 16°29 | W28 | |
| T 29 | 22 30 18 | 6°16'11 | 21°29 | 27°R33 | 3°15 | 21°53 | 10° 5 | 3°16 | 1°32 | 27° 0 | 28° 5 | 14°48 | 15°57 | 0°54 | 16°38 | T 29 | |
| F 30 | 22 34 14 | 7°13'57 | 4♄5 | 27°29 | 4°28 | 22°30 | 10°16 | 3°11 | 1°30 | 27° 3 | 28° 4 | 14°46 | 15°53 | 1° 0 | 16°46 | F 30 | |
| S 31 | 22 38 11 | 8♂11'43 | 17♄3 | 27♂20 | 5♄41 | 23♂7 | 10♄26 | 3♂7 | 1♂28 | 27♂5 | 28°V3 | 14°V41 | 15°V50 | 1♂7 | 16♂54 | S 31 | |

Delta T = 19m05s

ASTRODIENST EPHEMERIS for the year 2582
geocentric

SEPTEMBER 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|------|-------|------|-----|
| S 1 | 22 42 8 | 9♎ 9'31 | 0♋27 | 27°R 6 | 6♁54 | 23♎44 | 10♁36 | 3°R 2 | 1°R26 | 27♎ 7 | 28°R 3 | 14°R36 | 15°Y47 | 1♎14 | 17♎ 2 | S 1 | |
| M 2 | 22 46 4 | 10° 7'20 | 14°16 | 26♎45 | 8° 6 | 24°21 | 10°46 | 2♎58 | 1♋25 | 27° 9 | 28°Y 2 | 14°Y31 | 15°44 | 1°20 | 17°10 | M 2 | |
| T 3 | 22 50 1 | 11° 5'10 | 28°27 | 26°18 | 9°19 | 24°58 | 10°56 | 2°53 | 1°23 | 27°11 | 28° 1 | 14°26 | 15°41 | 1°27 | 17°19 | T 3 | |
| W 4 | 22 53 57 | 12° 3'01 | 12♎57 | 25°46 | 10°32 | 25°35 | 11° 6 | 2°49 | 1°21 | 27°13 | 28° 0 | 14°22 | 15°38 | 1°34 | 17°27 | W 4 | |
| T 5 | 22 57 54 | 13° 0'54 | 27°39 | 25° 9 | 11°45 | 26°13 | 11°15 | 2°44 | 1°20 | 27°16 | 28° 0 | 14°20 | 15°34 | 1°40 | 17°35 | T 5 | |
| F 6 | 23 1 50 | 13°58'49 | 12°Y26 | 24°26 | 12°57 | 26°50 | 11°25 | 2°40 | 1°18 | 27°18 | 27°59 | 14°D19 | 15°31 | 1°47 | 17°43 | F 6 | |
| S 7 | 23 5 47 | 14°56'45 | 27°11 | 23°39 | 14°10 | 27°28 | 11°34 | 2°36 | 1°16 | 27°20 | 27°58 | 14°19 | 15°28 | 1°53 | 17°52 | S 7 | |
| S 8 | 23 9 43 | 15°54'43 | 11♎48 | 22°48 | 15°23 | 28° 6 | 11°44 | 2°31 | 1°15 | 27°22 | 27°57 | 14°20 | 15°25 | 2° 0 | 18° 0 | S 8 | |
| M 9 | 23 13 40 | 16°52'42 | 26°13 | 21°54 | 16°36 | 28°44 | 11°53 | 2°27 | 1°14 | 27°24 | 27°57 | 14°22 | 15°22 | 2° 7 | 18° 8 | M 9 | |
| T 10 | 23 17 36 | 17°50'44 | 10♎22 | 20°57 | 17°48 | 29°22 | 12° 2 | 2°23 | 1°12 | 27°26 | 27°56 | 14°23 | 15°18 | 2°13 | 18°17 | T 10 | |
| W11 | 23 21 33 | 18°48'48 | 24°14 | 20° 0 | 19° 1 | 0♎ 0 | 12°11 | 2°18 | 1°11 | 27°28 | 27°55 | 14°R23 | 15°15 | 2°20 | 18°25 | W11 | |
| T 12 | 23 25 30 | 19°46'54 | 7♁50 | 19° 3 | 20°13 | 0°39 | 12°20 | 2°14 | 1° 9 | 27°30 | 27°54 | 14°22 | 15°12 | 2°27 | 18°33 | T 12 | |
| F 13 | 23 29 26 | 20°45'01 | 21° 9 | 18° 8 | 21°26 | 1°18 | 12°28 | 2°10 | 1° 8 | 27°33 | 27°53 | 14°20 | 15° 9 | 2°33 | 18°41 | F 13 | |
| S 14 | 23 33 23 | 21°43'10 | 4♎13 | 17°15 | 22°39 | 1°56 | 12°37 | 2° 6 | 1° 7 | 27°35 | 27°52 | 14°17 | 15° 6 | 2°40 | 18°50 | S 14 | |
| S 15 | 23 37 19 | 22°41'22 | 17° 2 | 16°26 | 23°51 | 2°35 | 12°46 | 2° 2 | 1° 6 | 27°37 | 27°51 | 14°13 | 15° 3 | 2°47 | 18°58 | S 15 | |
| M16 | 23 41 16 | 23°39'35 | 29°38 | 15°43 | 25° 4 | 3°14 | 12°54 | 1°58 | 1° 4 | 27°39 | 27°50 | 14°10 | 14°59 | 2°53 | 19° 6 | M16 | |
| T 17 | 23 45 12 | 24°37'49 | 12♎ 2 | 15° 5 | 26°16 | 3°53 | 13° 2 | 1°54 | 1° 3 | 27°41 | 27°50 | 14° 7 | 14°56 | 3° 0 | 19°15 | T 17 | |
| W18 | 23 49 9 | 25°36'06 | 24°14 | 14°35 | 27°29 | 4°33 | 13°10 | 1°50 | 1° 2 | 27°43 | 27°49 | 14° 5 | 14°53 | 3° 7 | 19°23 | W18 | |
| T 19 | 23 53 5 | 26°34'24 | 6♁17 | 14°12 | 28°41 | 5°12 | 13°18 | 1°46 | 1° 1 | 27°45 | 27°48 | 14° 4 | 14°50 | 3°13 | 19°31 | T 19 | |
| F 20 | 23 57 2 | 27°32'44 | 18°12 | 13°58 | 29°53 | 5°52 | 13°26 | 1°42 | 1° 0 | 27°47 | 27°47 | 14°D 4 | 14°47 | 3°20 | 19°39 | F 20 | |
| S 21 | 0 0 59 | 28°31'06 | 0♎ 2 | 13°D53 | 1♎ 6 | 6°31 | 13°34 | 1°38 | 0°59 | 27°49 | 27°46 | 14° 5 | 14°43 | 3°27 | 19°48 | S 21 | |
| S 22 | 0 4 55 | 29°29'29 | 11°49 | 13°57 | 2°18 | 7°11 | 13°41 | 1°35 | 0°58 | 27°51 | 27°45 | 14° 6 | 14°40 | 3°33 | 19°56 | S 22 | |
| M23 | 0 8 52 | 0♎27'54 | 23°36 | 14°10 | 3°31 | 7°51 | 13°49 | 1°31 | 0°58 | 27°53 | 27°44 | 14° 7 | 14°37 | 3°40 | 20° 4 | M23 | |
| T 24 | 0 12 48 | 1°26'21 | 5♎29 | 14°33 | 4°43 | 8°31 | 13°56 | 1°27 | 0°57 | 27°55 | 27°43 | 14° 8 | 14°34 | 3°47 | 20°12 | T 24 | |
| W25 | 0 16 45 | 2°24'49 | 17°30 | 15° 4 | 5°55 | 9°12 | 14° 3 | 1°24 | 0°56 | 27°57 | 27°42 | 14° 9 | 14°31 | 3°53 | 20°21 | W25 | |
| T 26 | 0 20 41 | 3°23'19 | 29°45 | 15°45 | 7° 7 | 9°52 | 14°10 | 1°20 | 0°55 | 27°58 | 27°41 | 14°R10 | 14°28 | 4° 0 | 20°29 | T 26 | |
| F 27 | 0 24 38 | 4°21'51 | 12♎18 | 16°33 | 8°20 | 10°32 | 14°17 | 1°17 | 0°55 | 28° 0 | 27°40 | 14°10 | 14°24 | 4° 7 | 20°37 | F 27 | |
| S 28 | 0 28 34 | 5°20'24 | 25°12 | 17°30 | 9°32 | 11°13 | 14°23 | 1°14 | 0°54 | 28° 2 | 27°39 | 14° 9 | 14°21 | 4°13 | 20°45 | S 28 | |
| S 29 | 0 32 31 | 6°18'59 | 8♎32 | 18°34 | 10°44 | 11°54 | 14°30 | 1°10 | 0°53 | 28° 4 | 27°38 | 14° 8 | 14°18 | 4°20 | 20°53 | S 29 | |
| M30 | 0 36 28 | 7♎17'35 | 22♎19 | 19♎44 | 11♎56 | 12♎34 | 14♁36 | 1° 7 | 0♎53 | 28♎ 6 | 27°Y36 | 14°Y 7 | 14°Y15 | 4♎26 | 21♎ 1 | M30 | |

Delta T = 19m05s

OCTOBER 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|------|-------|------|-----|
| T 1 | 0 40 24 | 8♁16'13 | 6♎32 | 21♎ 1 | 13♎ 8 | 13♎15 | 14♁43 | 1°R 4 | 0°R52 | 28♎ 8 | 27°R35 | 14°R 7 | 14°Y12 | 4♎33 | 21♎ 9 | T 1 | |
| W 2 | 0 44 21 | 9°14'53 | 21° 9 | 22°23 | 14°20 | 13°56 | 14°49 | 1° 1 | 0♎52 | 28° 9 | 27°Y34 | 14°Y 6 | 14° 9 | 4°40 | 21°18 | W 2 | |
| T 3 | 0 48 17 | 10°13'34 | 6°Y 4 | 23°50 | 15°32 | 14°37 | 14°54 | 0°58 | 0°52 | 28°11 | 27°33 | 14° 6 | 14° 5 | 4°46 | 21°26 | T 3 | |
| F 4 | 0 52 14 | 11°12'18 | 21° 9 | 25°21 | 16°44 | 15°19 | 15° 0 | 0°55 | 0°51 | 28°13 | 27°32 | 14°D 6 | 14° 2 | 4°53 | 21°34 | F 4 | |
| S 5 | 0 56 10 | 12°11'03 | 6♎15 | 26°56 | 17°56 | 16° 0 | 15° 6 | 0°52 | 0°51 | 28°15 | 27°31 | 14° 6 | 13°59 | 5° 0 | 21°42 | S 5 | |
| S 6 | 1 0 7 | 13° 9'51 | 21°15 | 28°34 | 19° 8 | 16°41 | 15°11 | 0°50 | 0°51 | 28°16 | 27°30 | 14° 6 | 13°56 | 5° 6 | 21°50 | S 6 | |
| M 7 | 1 4 3 | 14° 8'41 | 5♎59 | 0♎14 | 20°20 | 17°23 | 15°16 | 0°47 | 0°51 | 28°18 | 27°29 | 14°R 6 | 13°53 | 5°13 | 21°58 | M 7 | |
| T 8 | 1 8 0 | 15° 7'33 | 20°23 | 1°57 | 21°31 | 18° 5 | 15°21 | 0°44 | 0°50 | 28°20 | 27°28 | 14° 6 | 13°49 | 5°20 | 22° 6 | T 8 | |
| W 9 | 1 11 57 | 16° 6'27 | 4♁23 | 3°41 | 22°43 | 18°46 | 15°26 | 0°42 | 0°50 | 28°21 | 27°27 | 14° 6 | 13°46 | 5°26 | 22°14 | W 9 | |
| T 10 | 1 15 53 | 17° 5'24 | 18° 0 | 5°26 | 23°55 | 19°28 | 15°31 | 0°39 | 0°D50 | 28°23 | 27°25 | 14°D 6 | 13°43 | 5°33 | 22°21 | T 10 | |
| F 11 | 1 19 50 | 18° 4'23 | 1♎13 | 7°12 | 25° 7 | 20°10 | 15°36 | 0°37 | 0°50 | 28°25 | 27°24 | 14° 6 | 13°40 | 5°40 | 22°29 | F 11 | |
| S 12 | 1 23 46 | 19° 3'24 | 14° 6 | 8°59 | 26°18 | 20°52 | 15°40 | 0°35 | 0°50 | 28°26 | 27°23 | 14° 7 | 13°37 | 5°46 | 22°37 | S 12 | |
| S 13 | 1 27 43 | 20° 2'28 | 26°41 | 10°46 | 27°30 | 21°34 | 15°44 | 0°33 | 0°51 | 28°28 | 27°22 | 14° 7 | 13°34 | 5°53 | 22°45 | S 13 | |
| M14 | 1 31 39 | 21° 1'33 | 9♎ 2 | 12°33 | 28°41 | 22°17 | 15°48 | 0°31 | 0°51 | 28°29 | 27°21 | 14° 8 | 13°30 | 6° 0 | 22°53 | M14 | |
| T 15 | 1 35 36 | 22° 0'41 | 21°11 | 14°21 | 29°53 | 22°59 | 15°52 | 0°29 | 0°51 | 28°31 | 27°20 | 14° 8 | 13°27 | 6° 6 | 23° 0 | T 15 | |
| W16 | 1 39 32 | 22°59'51 | 3♎11 | 16° 8 | 1♎ 4 | 23°42 | 15°56 | 0°27 | 0°51 | 28°32 | 27°19 | 14° 9 | 13°24 | 6°13 | 23° 8 | W16 | |
| T 17 | 1 43 29 | 23°59'03 | 15° 5 | 17°55 | 2°16 | 24°24 | 15°59 | 0°25 | 0°52 | 28°34 | 27°17 | 14°R 9 | 13°21 | 6°20 | 23°16 | T 17 | |
| F 18 | 1 47 26 | 24°58'17 | 26°54 | 19°41 | 3°27 | 25° 7 | 16° 2 | 0°23 | 0°52 | 28°35 | 27°16 | 14° 9 | 13°18 | 6°26 | 23°23 | F 18 | |
| S 19 | 1 51 22 | 25°57'33 | 8♎42 | 21°27 | 4°39 | 25°50 | 16° 6 | 0°22 | 0°52 | 28°36 | 27°15 | 14° 8 | 13°15 | 6°33 | 23°31 | S 19 | |
| S 20 | 1 55 19 | 26°56'51 | 20°30 | 23°12 | 5°50 | 26°32 | 16° 8 | 0°20 | 0°53 | 28°38 | 27°14 | 14° 6 | 13°11 | 6°40 | 23°38 | S 20 | |
| M21 | 1 59 15 | 27°56'11 | 2♎21 | 24°57 | 7° 1 | 27°15 | 16°11 | 0°19 | 0°53 | 28°39 | 27°13 | 14° 4 | 13° 8 | 6°46 | 23°46 | M21 | |
| T 22 | 2 3 12 | 28°55'33 | 14°16 | 26°41 | 8°13 | 27°59 | 16°14 | 0°18 | 0°54 | 28°40 | 27°12 | 14° 2 | 13° 5 | 6°53 | 23°53 | T 22 | |
| W23 | 2 7 8 | 29°54'57 | 26°20 | 28°25 | 9°24 | 28°42 | 16°16 | 0°16 | 0°55 | 28°42 | 27°11 | 14° 0 | 13° 2 | 7° 0 | 24° 1 | W23 | |
| T 24 | 2 11 5 | 0♎54'22 | 8♎35 | 0♎ 8 | 10°35 | 29°25 | 16°18 | 0°15 | 0°55 | 28°43 | 27° 9 | 13°58 | 12°59 | 7° 6 | 24° 8 | T 24 | |
| F 25 | 2 15 1 | 1°53'49 | 21° 6 | 1°50 | 11°46 | 0♎ 8 | 16°20 | 0°14 | 0°56 | 28°44 | 27° 8 | 13°57 | 12°55 | 7°13 | 24°15 | F 25 | |
| S 26 | 2 18 58 | 2°53'18 | 3♎55 | 3°31 | 12°57 | 0°52 | 16°22 | 0°13 | 0°57 | 28°45 | 27° 7 | 13°D57 | 12°52 | 7°20 | 24°23 | S 26 | |
| S 27 | 2 22 55 | 3°52'49 | 17° 6 | 5°12 | 14° 8 | 1°35 | 16°23 | 0°13 | 0°58 | 28°46 | 27° 6 | 13°57 | 12°49 | 7°26 | 24°30 | S 27 | |
| M28 | 2 26 51 | 4°52'22 | 0♎43 | 6°53 | 15°19 | 2°19 | 16°25 | 0°12 | 0°59 | 28°48 | 27° 5 | 13°58 | 12°46 | 7°33 | 24°37 | M28 | |
| T 29 | 2 30 48 | 5°51'56 | 14°46 | 8°32 | 16°30 | 3° 2 | 16°26 | 0°11 | 1° 0 | 28°49 | 27° 4 | 14° 0 | 12°43 | 7°39 | 24°44 | T 29 | |
| W30 | 2 34 44 | 6°51'31 | 29°14 | 10°11 | 17°40 | 3°46 | 16°27 | 0°11 | 1° 1 | 28°50 | 27° 3 | 14° 1 | 12°40 | 7°46 | 24°51 | W30 | |
| T 31 | 2 38 41 | 7♎51'09 | 14°Y 6 | 11♎49 | 18♎51 | 4♎30 | 16♁28 | 0° 10 | 1♎ 2 | 28♎51 | 27°Y 1 | 14°R 1 | 12°Y36 | 7♎53 | 24♎58 | T 31 | |

Delta T = 19m06s

ASTRODIENST EPHEMERIS for the year 2582
geocentric

NOVEMBER 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|------|-------|--------|--------|-------|-------|-------|------|-----|
| F 1 | 2 42 37 | 8♉50°48 | 29♊14 | 13♉27 | 20♊ 2 | 5♉14 | 16♉28 | 0°R10 | 1♉ 3 | 28♉52 | 27°R 0 | 14°R 1 | 12♊33 | 7♉59 | 25♉ 5 | F 1 | |
| S 2 | 2 46 34 | 9°50'29 | 14♉29 | 15° 4 | 21°12 | 5°58 | 16°29 | 0♉10 | 1° 4 | 28°53 | 26♊59 | 13♊59 | 12°30 | 8° 6 | 25°12 | S 2 | |
| S 3 | 2 50 30 | 10°50'13 | 29°42 | 16°41 | 22°23 | 6°42 | 16°R29 | 0°D10 | 1° 5 | 28°54 | 26°58 | 13°56 | 12°27 | 8°13 | 25°19 | S 3 | |
| M 4 | 2 54 27 | 11°49'58 | 14♉43 | 18°17 | 23°33 | 7°26 | 16°29 | 0°10 | 1° 6 | 28°55 | 26°57 | 13°52 | 12°24 | 8°19 | 25°26 | M 4 | |
| T 5 | 2 58 24 | 12°49'46 | 29°23 | 19°53 | 24°44 | 8°10 | 16°29 | 0°10 | 1° 8 | 28°56 | 26°56 | 13°48 | 12°21 | 8°26 | 25°32 | T 5 | |
| W 6 | 3 2 20 | 13°49'36 | 13♉37 | 21°28 | 25°54 | 8°55 | 16°28 | 0°10 | 1° 9 | 28°56 | 26°55 | 13°44 | 12°17 | 8°33 | 25°39 | W 6 | |
| T 7 | 3 6 17 | 14°49'28 | 27°22 | 23° 2 | 27° 4 | 9°39 | 16°28 | 0°10 | 1°10 | 28°57 | 26°54 | 13°41 | 12°14 | 8°39 | 25°46 | T 7 | |
| F 8 | 3 10 13 | 15°49'22 | 10♉39 | 24°36 | 28°14 | 10°23 | 16°27 | 0°11 | 1°12 | 28°58 | 26°53 | 13°D40 | 12°11 | 8°46 | 25°52 | F 8 | |
| S 9 | 3 14 10 | 16°49'18 | 23°30 | 26°10 | 29°24 | 11° 8 | 16°26 | 0°11 | 1°13 | 28°59 | 26°51 | 13°40 | 12° 8 | 8°53 | 25°59 | S 9 | |
| S 10 | 3 18 6 | 17°49'16 | 6♉ 1 | 27°43 | 0♉34 | 11°52 | 16°25 | 0°12 | 1°15 | 29° 0 | 26°50 | 13°41 | 12° 5 | 8°59 | 26° 5 | S 10 | |
| M11 | 3 22 3 | 18°49'17 | 18°14 | 29°15 | 1°44 | 12°37 | 16°23 | 0°13 | 1°16 | 29° 0 | 26°49 | 13°43 | 12° 1 | 9° 6 | 26°11 | M11 | |
| T 12 | 3 25 59 | 19°49'19 | 0♉14 | 0♉48 | 2°54 | 13°22 | 16°22 | 0°13 | 1°18 | 29° 1 | 26°48 | 13°45 | 11°58 | 9°13 | 26°17 | T 12 | |
| W13 | 3 29 56 | 20°49'24 | 12° 7 | 2°19 | 4° 4 | 14° 7 | 16°20 | 0°14 | 1°20 | 29° 2 | 26°47 | 13°R46 | 11°55 | 9°19 | 26°24 | W13 | |
| T 14 | 3 33 53 | 21°49'30 | 23°55 | 3°51 | 5°13 | 14°52 | 16°18 | 0°15 | 1°21 | 29° 2 | 26°46 | 13°45 | 11°52 | 9°26 | 26°30 | T 14 | |
| F 15 | 3 37 49 | 22°49'39 | 5♉42 | 5°22 | 6°23 | 15°36 | 16°15 | 0°16 | 1°23 | 29° 3 | 26°45 | 13°42 | 11°49 | 9°33 | 26°36 | F 15 | |
| S 16 | 3 41 46 | 23°49'49 | 17°31 | 6°52 | 7°32 | 16°21 | 16°13 | 0°18 | 1°25 | 29° 3 | 26°44 | 13°38 | 11°46 | 9°39 | 26°42 | S 16 | |
| S 17 | 3 45 42 | 24°50'01 | 29°23 | 8°23 | 8°41 | 17° 7 | 16°10 | 0°19 | 1°27 | 29° 4 | 26°43 | 13°32 | 11°42 | 9°46 | 26°48 | S 17 | |
| M18 | 3 49 39 | 25°50'15 | 11♉21 | 9°52 | 9°51 | 17°52 | 16° 8 | 0°20 | 1°29 | 29° 4 | 26°42 | 13°24 | 11°39 | 9°53 | 26°53 | M18 | |
| T 19 | 3 53 35 | 26°50'31 | 23°25 | 11°22 | 11° 0 | 18°37 | 16° 5 | 0°22 | 1°31 | 29° 5 | 26°41 | 13°15 | 11°36 | 9°59 | 26°59 | T 19 | |
| W20 | 3 57 32 | 27°50'48 | 5♉37 | 12°51 | 12° 9 | 19°22 | 16° 1 | 0°24 | 1°33 | 29° 5 | 26°40 | 13° 7 | 11°33 | 10° 6 | 27° 5 | W20 | |
| T 21 | 4 1 28 | 28°51'07 | 18° 0 | 14°19 | 13°18 | 20° 8 | 15°58 | 0°25 | 1°35 | 29° 5 | 26°39 | 12°59 | 11°30 | 10°13 | 27°10 | T 21 | |
| F 22 | 4 5 25 | 29°51'28 | 0♉35 | 15°47 | 14°27 | 20°53 | 15°54 | 0°27 | 1°37 | 29° 6 | 26°38 | 12°54 | 11°27 | 10°19 | 27°16 | F 22 | |
| S 23 | 4 9 22 | 0♉51'49 | 13°24 | 17°15 | 15°35 | 21°38 | 15°51 | 0°29 | 1°39 | 29° 6 | 26°37 | 12°50 | 11°23 | 10°26 | 27°21 | S 23 | |
| S 24 | 4 13 18 | 1°52'12 | 26°31 | 18°41 | 16°44 | 22°24 | 15°47 | 0°31 | 1°41 | 29° 6 | 26°37 | 12°D48 | 11°20 | 10°33 | 27°27 | S 24 | |
| M25 | 4 17 15 | 2°52'37 | 9♉58 | 20° 8 | 17°52 | 23° 9 | 15°43 | 0°33 | 1°43 | 29° 7 | 26°36 | 12°48 | 11°17 | 10°39 | 27°32 | M25 | |
| T 26 | 4 21 11 | 3°53'02 | 23°47 | 21°34 | 19° 0 | 23°55 | 15°38 | 0°36 | 1°45 | 29° 7 | 26°35 | 12°49 | 11°14 | 10°46 | 27°37 | T 26 | |
| W27 | 4 25 8 | 4°53'29 | 7♊59 | 22°59 | 20° 8 | 24°41 | 15°34 | 0°38 | 1°48 | 29° 7 | 26°34 | 12°R50 | 11°11 | 10°53 | 27°42 | W27 | |
| T 28 | 4 29 4 | 5°53'57 | 22°33 | 24°23 | 21°16 | 25°26 | 15°29 | 0°40 | 1°50 | 29° 7 | 26°33 | 12°50 | 11° 7 | 10°59 | 27°47 | T 28 | |
| F 29 | 4 33 1 | 6°54'26 | 7♉27 | 25°46 | 22°24 | 26°12 | 15°24 | 0°43 | 1°52 | 29° 7 | 26°32 | 12°47 | 11° 4 | 11° 6 | 27°52 | F 29 | |
| S 30 | 4 36 57 | 7♉54'57 | 22♉33 | 27♉ 9 | 23♉32 | 26♉58 | 15♉19 | 0♉45 | 1♉55 | 29♉ 7 | 26♊31 | 12♊43 | 11♊ 1 | 11♉13 | 27♉57 | S 30 | |

Delta T = 19m06s

DECEMBER 2582

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|------|------|--------|--------|--------|-------|-------|-------|------|-----|
| S 1 | 4 40 54 | 8♊55°29 | 7♉42 | 28♊30 | 24♉39 | 27♉44 | 15°R14 | 0♉48 | 1♉57 | 29°R 7 | 26°R31 | 12°R36 | 10♊58 | 11♉19 | 28♉ 2 | S 1 | |
| M 2 | 4 44 51 | 9°56'03 | 22°45 | 29°51 | 25°46 | 28°30 | 15°R 9 | 0°51 | 2° 0 | 29°R 7 | 26♊30 | 12♊27 | 10°55 | 11°26 | 28° 6 | M 2 | |
| T 3 | 4 48 47 | 10°56'39 | 7♉32 | 1♉10 | 26°53 | 29°16 | 15° 3 | 0°54 | 2° 2 | 29° 7 | 26°29 | 12°17 | 10°52 | 11°33 | 28°11 | T 3 | |
| W 4 | 4 52 44 | 11°57'15 | 21°54 | 2°27 | 28° 0 | 0♉ 2 | 14°58 | 0°57 | 2° 5 | 29° 7 | 26°28 | 12° 8 | 10°48 | 11°39 | 28°15 | W 4 | |
| T 5 | 4 56 40 | 12°57'54 | 5♉49 | 3°42 | 29° 7 | 0°48 | 14°52 | 1° 0 | 2° 7 | 29° 7 | 26°27 | 12° 1 | 10°45 | 11°46 | 28°20 | T 5 | |
| F 6 | 5 0 37 | 13°58'33 | 19°13 | 4°56 | 0♉14 | 1°34 | 14°46 | 1° 3 | 2°10 | 29° 7 | 26°27 | 11°56 | 10°42 | 11°53 | 28°24 | F 6 | |
| S 7 | 5 4 33 | 14°59'15 | 2♉10 | 6° 7 | 1°20 | 2°20 | 14°40 | 1° 6 | 2°13 | 29° 7 | 26°26 | 11°53 | 10°39 | 11°59 | 28°28 | S 7 | |
| S 8 | 5 8 30 | 15°59'58 | 14°42 | 7°16 | 2°26 | 3° 6 | 14°33 | 1°10 | 2°15 | 29° 6 | 26°25 | 11°D52 | 10°36 | 12° 6 | 28°32 | S 8 | |
| M 9 | 5 12 27 | 17° 0'42 | 26°55 | 8°21 | 3°32 | 3°52 | 14°27 | 1°13 | 2°18 | 29° 6 | 26°25 | 11°52 | 10°33 | 12°13 | 28°36 | M 9 | |
| T 10 | 5 16 23 | 18° 1'28 | 8♉54 | 9°24 | 4°38 | 4°39 | 14°20 | 1°17 | 2°21 | 29° 6 | 26°24 | 11°R53 | 10°29 | 12°19 | 28°40 | T 10 | |
| W11 | 5 20 20 | 19° 2'15 | 20°44 | 10°22 | 5°43 | 5°25 | 14°14 | 1°20 | 2°24 | 29° 6 | 26°23 | 11°52 | 10°26 | 12°26 | 28°44 | W11 | |
| T 12 | 5 24 16 | 20° 3'04 | 2♉31 | 11°15 | 6°48 | 6°11 | 14° 7 | 1°24 | 2°26 | 29° 5 | 26°23 | 11°50 | 10°23 | 12°33 | 28°47 | T 12 | |
| F 13 | 5 28 13 | 21° 3'54 | 14°18 | 12° 4 | 7°53 | 6°58 | 14° 0 | 1°28 | 2°29 | 29° 5 | 26°22 | 11°45 | 10°20 | 12°39 | 28°51 | F 13 | |
| S 14 | 5 32 9 | 22° 4'46 | 26°10 | 12°46 | 8°58 | 7°44 | 13°53 | 1°32 | 2°32 | 29° 4 | 26°22 | 11°37 | 10°17 | 12°46 | 28°54 | S 14 | |
| S 15 | 5 36 6 | 23° 5'39 | 8♉ 9 | 13°22 | 10° 2 | 8°31 | 13°46 | 1°36 | 2°35 | 29° 4 | 26°21 | 11°27 | 10°13 | 12°53 | 28°58 | S 15 | |
| M16 | 5 40 2 | 24° 6'32 | 20°16 | 13°51 | 11° 7 | 9°17 | 13°39 | 1°40 | 2°38 | 29° 4 | 26°20 | 11°14 | 10°10 | 12°59 | 29° 1 | M16 | |
| T 17 | 5 43 59 | 25° 7'27 | 2♉34 | 14°11 | 12°11 | 10° 4 | 13°31 | 1°44 | 2°41 | 29° 3 | 26°20 | 11° 1 | 10° 7 | 13° 6 | 29° 4 | T 17 | |
| W18 | 5 47 56 | 26° 8'23 | 15° 1 | 14°22 | 13°14 | 10°50 | 13°24 | 1°48 | 2°44 | 29° 2 | 26°19 | 10°47 | 10° 4 | 13°13 | 29° 7 | W18 | |
| T 19 | 5 51 52 | 27° 9'20 | 27°39 | 14°R23 | 14°18 | 11°37 | 13°16 | 1°52 | 2°47 | 29° 2 | 26°19 | 10°34 | 10° 1 | 13°19 | 29°10 | T 19 | |
| F 20 | 5 55 49 | 28°10'17 | 10♉28 | 14°13 | 15°21 | 12°24 | 13° 9 | 1°57 | 2°50 | 29° 1 | 26°18 | 10°24 | 9°58 | 13°26 | 29°13 | F 20 | |
| S 21 | 5 59 45 | 29°11'15 | 23°29 | 13°53 | 16°23 | 13°10 | 13° 1 | 2° 1 | 2°53 | 29° 1 | 26°18 | 10°17 | 9°54 | 13°33 | 29°16 | S 21 | |
| S 22 | 6 3 42 | 0♉12'14 | 6♉41 | 13°20 | 17°26 | 13°57 | 12°53 | 2° 6 | 2°56 | 29° 0 | 26°18 | 10°12 | 9°51 | 13°39 | 29°18 | S 22 | |
| M23 | 6 7 38 | 1°13'13 | 20° 8 | 12°36 | 18°28 | 14°44 | 12°46 | 2°10 | 2°59 | 28°59 | 26°17 | 10°10 | 9°48 | 13°46 | 29°21 | M23 | |
| T 24 | 6 11 35 | 2°14'13 | 3♊49 | 11°42 | 19°29 | 15°31 | 12°38 | 2°15 | 3° 2 | 28°59 | 26°17 | 10°10 | 9°45 | 13°53 | 29°23 | T 24 | |
| W25 | 6 15 31 | 3°15'13 | 17°48 | 10°37 | 20°30 | 16°17 | 12°30 | 2°20 | 3° 6 | 28°58 | 26°16 | 10°10 | 9°42 | 13°59 | 29°25 | W25 | |
| T 26 | 6 19 28 | 4°16'13 | 2♉ 3 | 9°25 | 21°31 | 17° 4 | 12°22 | 2°25 | 3° 9 | 28°57 | 26°16 | 10° 9 | 9°39 | 14° 6 | 29°27 | T 26 | |
| F 27 | 6 23 25 | 5°17'14 | 16°34 | 8° 6 | 22°32 | 17°51 | 12°14 | 2°30 | 3°12 | 28°56 | 26°16 | 10° 5 | 9°35 | 14°13 | 29°29 | F 27 | |
| S 28 | 6 27 21 | 6°18'16 | 1♉17 | 6°44 | 23°32 | 18°38 | 12° 6 | 2°35 | 3°15 | 28°55 | 26°16 | 9°59 | 9°32 | 14°19 | 29°31 | S 28 | |
| S 29 | 6 31 18 | 7°19'17 | 16° 5 | 5°21 | 24°31 | 19°25 | 11°58 | 2°40 | 3°19 | 28°54 | 26°15 | 9°50 | 9°29 | 14°26 | 29°33 | S 29 | |
| M30 | 6 35 14 | 8°20'20 | 0♉52 | 4° 0 | 25°30 | 20°11 | 11°49 | 2°45 | 3°22 | 28°53 | 26°15 | 9°38 | 9°26 | 14°33 | 29°35 | M30 | |
| T 31 | 6 39 11 | 9♉21'23 | 15♉28 | 2♉44 | 26♉29 | 20♉58 | 11♉21 | 2♉50 | 3♉25 | 28♉53 | 26♊15 | 9♊26 | 9♊23 | 14♉39 | 29♉36 | T 31 | |

ASTRODIENST EPHEMERIS for the year 2583
geocentric

JANUARY 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|------|------|--------|--------|-------|-------|-------|--------|------|---|---|---|---|-----|
| W 1 | 6 43 7 | 10♌22'26 | 29♉46 | 1°R35 | 27♋27 | 21♋45 | 11°R33 | 2♊55 | 3♌28 | 28°R52 | 26°R15 | 9°R14 | 9°V19 | 14♌46 | 29♈38 | W 1 | | | | | |
| T 2 | 6 47 4 | 11°23'30 | 13♌04 | 0♌34 | 28°24 | 22°32 | 11♉25 | 3° 1 | 3°32 | 28♌51 | 26°V14 | 9°V 3 | 9°16 | 14°53 | 29°39 | T 2 | | | | | |
| F 3 | 6 51 1 | 12°24'34 | 27° 7 | 29♋43 | 29°21 | 23°19 | 11°17 | 3° 6 | 3°35 | 28°50 | 26°14 | 8°55 | 9°13 | 14°59 | 29°40 | F 3 | | | | | |
| S 4 | 6 54 57 | 13°25'39 | 10♈ 8 | 29° 3 | 0♈18 | 24° 6 | 11° 9 | 3°11 | 3°39 | 28°48 | 26°14 | 8°50 | 9°10 | 15° 6 | 29°41 | S 4 | | | | | |
| S 5 | 6 58 54 | 14°26'44 | 22°44 | 28°33 | 1°14 | 24°53 | 11° 1 | 3°17 | 3°42 | 28°47 | 26°14 | 8°48 | 9° 7 | 15°13 | 29°42 | S 5 | | | | | |
| M 6 | 7 2 50 | 15°27'50 | 5♌ 1 | 28°14 | 2° 9 | 25°40 | 10°53 | 3°23 | 3°45 | 28°46 | 26°14 | 8°D47 | 9° 4 | 15°19 | 29°43 | M 6 | | | | | |
| T 7 | 7 6 47 | 16°28'57 | 17° 2 | 28°D 5 | 3° 3 | 26°27 | 10°44 | 3°28 | 3°49 | 28°45 | 26°14 | 8°R47 | 9° 0 | 15°26 | 29°44 | T 7 | | | | | |
| W 8 | 7 10 43 | 17°30'04 | 28°54 | 28° 6 | 3°58 | 27°14 | 10°36 | 3°34 | 3°52 | 28°44 | 26°14 | 8°46 | 8°57 | 15°33 | 29°45 | W 8 | | | | | |
| T 9 | 7 14 40 | 18°31'11 | 10♌41 | 28°16 | 4°51 | 28° 1 | 10°28 | 3°40 | 3°56 | 28°43 | 26°14 | 8°44 | 8°54 | 15°39 | 29°45 | T 9 | | | | | |
| F 10 | 7 18 36 | 19°32'19 | 22°31 | 28°34 | 5°44 | 28°48 | 10°20 | 3°45 | 3°59 | 28°42 | 26°D14 | 8°40 | 8°51 | 15°46 | 29°46 | F 10 | | | | | |
| S 11 | 7 22 33 | 20°33'28 | 4♌26 | 28°59 | 6°35 | 29°35 | 10°12 | 3°51 | 4° 3 | 28°40 | 26°14 | 8°33 | 8°48 | 15°53 | 29°46 | S 11 | | | | | |
| S 12 | 7 26 30 | 21°34'36 | 16°30 | 29°31 | 7°27 | 0♈22 | 10° 5 | 3°57 | 4° 6 | 28°39 | 26°14 | 8°23 | 8°45 | 15°59 | 29°46 | S 12 | | | | | |
| M13 | 7 30 26 | 22°35'45 | 28°47 | 0♌ 9 | 8°17 | 1° 9 | 9°57 | 4° 3 | 4°10 | 28°38 | 26°14 | 8°11 | 8°41 | 16° 6 | 29°R46 | M13 | | | | | |
| T 14 | 7 34 23 | 23°36'54 | 11♌18 | 0°53 | 9° 7 | 1°56 | 9°49 | 4° 9 | 4°13 | 28°37 | 26°14 | 7°57 | 8°38 | 16°13 | 29°46 | T 14 | | | | | |
| W15 | 7 38 19 | 24°38'03 | 24° 3 | 1°41 | 9°55 | 2°43 | 9°41 | 4°15 | 4°17 | 28°35 | 26°14 | 7°44 | 8°35 | 16°19 | 29°46 | W15 | | | | | |
| T 16 | 7 42 16 | 25°39'12 | 7♌ 1 | 2°34 | 10°43 | 3°31 | 9°34 | 4°22 | 4°20 | 28°34 | 26°14 | 7°31 | 8°32 | 16°26 | 29°46 | T 16 | | | | | |
| F 17 | 7 46 12 | 26°40'21 | 20°12 | 3°31 | 11°30 | 4°18 | 9°26 | 4°28 | 4°24 | 28°33 | 26°14 | 7°21 | 8°29 | 16°33 | 29°45 | F 17 | | | | | |
| S 18 | 7 50 9 | 27°41'30 | 3♌34 | 4°31 | 12°16 | 5° 5 | 9°19 | 4°34 | 4°27 | 28°31 | 26°15 | 7°14 | 8°25 | 16°40 | 29°45 | S 18 | | | | | |
| S 19 | 7 54 5 | 28°42'38 | 17° 5 | 5°34 | 13° 1 | 5°52 | 9°12 | 4°40 | 4°31 | 28°30 | 26°15 | 7°10 | 8°22 | 16°46 | 29°44 | S 19 | | | | | |
| M20 | 7 58 2 | 29°43'45 | 0°V45 | 6°39 | 13°45 | 6°39 | 9° 5 | 4°47 | 4°34 | 28°28 | 26°15 | 7° 8 | 8°19 | 16°53 | 29°43 | M20 | | | | | |
| T 21 | 8 1 59 | 0♌44'52 | 14°34 | 7°48 | 14°28 | 7°26 | 8°57 | 4°53 | 4°38 | 28°27 | 26°15 | 7°D 8 | 8°16 | 17° 0 | 29°42 | T 21 | | | | | |
| W22 | 8 5 55 | 1°45'59 | 28°31 | 8°58 | 15°10 | 8°13 | 8°50 | 4°59 | 4°41 | 28°25 | 26°15 | 7°R 8 | 8°13 | 17° 6 | 29°41 | W22 | | | | | |
| T 23 | 8 9 52 | 2°47'05 | 12♌36 | 10°10 | 15°50 | 9° 0 | 8°44 | 5° 6 | 4°45 | 28°24 | 26°16 | 7° 8 | 8°10 | 17°13 | 29°40 | T 23 | | | | | |
| F 24 | 8 13 48 | 3°48'10 | 26°49 | 11°25 | 16°30 | 9°47 | 8°37 | 5°12 | 4°48 | 28°23 | 26°16 | 7° 6 | 8° 6 | 17°20 | 29°39 | F 24 | | | | | |
| S 25 | 8 17 45 | 4°49'15 | 11♌ 8 | 12°40 | 17° 8 | 10°34 | 8°30 | 5°19 | 4°52 | 28°21 | 26°16 | 7° 1 | 8° 3 | 17°26 | 29°38 | S 25 | | | | | |
| S 26 | 8 21 41 | 5°50'19 | 25°29 | 13°58 | 17°44 | 11°21 | 8°24 | 5°26 | 4°56 | 28°20 | 26°17 | 6°54 | 8° 0 | 17°33 | 29°36 | S 26 | | | | | |
| M27 | 8 25 38 | 6°51'22 | 9♌47 | 15°16 | 18°20 | 12° 8 | 8°17 | 5°32 | 4°59 | 28°18 | 26°17 | 6°45 | 7°57 | 17°40 | 29°35 | M27 | | | | | |
| T 28 | 8 29 34 | 7°52'25 | 23°58 | 16°36 | 18°54 | 12°55 | 8°11 | 5°39 | 5° 3 | 28°16 | 26°18 | 6°34 | 7°54 | 17°46 | 29°33 | T 28 | | | | | |
| W29 | 8 33 31 | 8°53'27 | 7♌55 | 17°57 | 19°26 | 13°42 | 8° 5 | 5°46 | 5° 6 | 28°15 | 26°18 | 6°24 | 7°51 | 17°53 | 29°31 | W29 | | | | | |
| T 30 | 8 37 28 | 9°54'28 | 21°35 | 19°19 | 19°57 | 14°29 | 7°59 | 5°52 | 5°10 | 28°13 | 26°18 | 6°16 | 7°47 | 18° 0 | 29°30 | T 30 | | | | | |
| F 31 | 8 41 24 | 10°55'29 | 4♈53 | 20♌43 | 20♈26 | 15♈16 | 7♉54 | 5♈59 | 5♌13 | 28♌12 | 26°V19 | 6°V 9 | 7°V44 | 18♌ 6 | 29♈28 | F 31 | | | | | |

Delta T = 19m07s

FEBRUARY 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|--------|-------|--------|-------|-------|------|------|--------|--------|-------|-------|-------|--------|------|---|---|---|---|-----|
| S 1 | 8 45 21 | 11°56'29 | 17♈50 | 22♌ 7 | 20♈54 | 16♈ 3 | 7°R48 | 6♈ 6 | 5♌17 | 28°R10 | 26°V19 | 6°R 5 | 7°V41 | 18♌13 | 29°R25 | S 1 | | | | | |
| S 2 | 8 49 17 | 12°57'28 | 0♌26 | 23°32 | 21°20 | 16°50 | 7♉43 | 6°13 | 5°20 | 28♌ 9 | 26°20 | 6°D 3 | 7°38 | 18°20 | 29♈23 | S 2 | | | | | |
| M 3 | 8 53 14 | 13°58'27 | 12°44 | 24°58 | 21°44 | 17°37 | 7°37 | 6°20 | 5°24 | 28° 7 | 26°21 | 6°V 3 | 7°35 | 18°26 | 29°21 | M 3 | | | | | |
| T 4 | 8 57 10 | 14°59'26 | 24°48 | 26°24 | 22° 6 | 18°24 | 7°32 | 6°27 | 5°27 | 28° 5 | 26°21 | 6° 4 | 7°31 | 18°33 | 29°19 | T 4 | | | | | |
| W 5 | 9 1 7 | 16° 0'24 | 6♌42 | 27°52 | 22°26 | 19°11 | 7°27 | 6°33 | 5°31 | 28° 4 | 26°22 | 6° 5 | 7°28 | 18°40 | 29°16 | W 5 | | | | | |
| T 6 | 9 5 3 | 17° 1'21 | 18°31 | 29°20 | 22°44 | 19°58 | 7°23 | 6°40 | 5°34 | 28° 2 | 26°22 | 6°R 6 | 7°25 | 18°46 | 29°14 | T 6 | | | | | |
| F 7 | 9 9 0 | 18° 2'18 | 0♌27 | 0♌49 | 23° 1 | 20°45 | 7°18 | 6°47 | 5°38 | 28° 0 | 26°23 | 6° 5 | 7°22 | 18°53 | 29°11 | F 7 | | | | | |
| S 8 | 9 12 57 | 19° 3'15 | 12°19 | 2°19 | 23°15 | 21°32 | 7°14 | 6°54 | 5°41 | 27°59 | 26°24 | 6° 2 | 7°19 | 19° 0 | 29° 8 | S 8 | | | | | |
| S 9 | 9 16 53 | 20° 4'11 | 24°26 | 3°50 | 23°27 | 22°19 | 7° 9 | 7° 1 | 5°45 | 27°57 | 26°24 | 5°57 | 7°16 | 19° 6 | 29° 5 | S 9 | | | | | |
| M10 | 9 20 50 | 21° 5'06 | 6♌49 | 5°21 | 23°37 | 23° 6 | 7° 5 | 7° 8 | 5°48 | 27°55 | 26°25 | 5°50 | 7°12 | 19°13 | 29° 2 | M10 | | | | | |
| T 11 | 9 24 46 | 22° 6'00 | 19°28 | 6°53 | 23°44 | 23°53 | 7° 1 | 7°16 | 5°52 | 27°54 | 26°26 | 5°42 | 7° 9 | 19°20 | 28°59 | T 11 | | | | | |
| W12 | 9 28 43 | 23° 6'53 | 2♌26 | 8°26 | 23°49 | 24°39 | 6°58 | 7°23 | 5°55 | 27°52 | 26°26 | 5°34 | 7° 6 | 19°26 | 28°56 | W12 | | | | | |
| T 13 | 9 32 39 | 24° 7'45 | 15°42 | 9°59 | 23°52 | 25°26 | 6°54 | 7°30 | 5°59 | 27°50 | 26°27 | 5°27 | 7° 3 | 19°33 | 28°53 | T 13 | | | | | |
| F 14 | 9 36 36 | 25° 8'36 | 29°15 | 11°34 | 23°R52 | 26°13 | 6°51 | 7°37 | 6° 2 | 27°49 | 26°28 | 5°21 | 7° 0 | 19°40 | 28°50 | F 14 | | | | | |
| S 15 | 9 40 32 | 26° 9'26 | 13♈ 2 | 13° 9 | 23°50 | 27° 0 | 6°48 | 7°44 | 6° 5 | 27°47 | 26°29 | 5°17 | 6°57 | 19°47 | 28°46 | S 15 | | | | | |
| S 16 | 9 44 29 | 27°10'15 | 27° 0 | 14°44 | 23°46 | 27°47 | 6°45 | 7°51 | 6° 9 | 27°45 | 26°29 | 5°15 | 6°53 | 19°53 | 28°43 | S 16 | | | | | |
| M17 | 9 48 26 | 28°11'03 | 11°V 6 | 16°21 | 23°38 | 28°33 | 6°42 | 7°58 | 6°12 | 27°44 | 26°30 | 5°D15 | 6°50 | 20° 0 | 28°39 | M17 | | | | | |
| T 18 | 9 52 22 | 29°11'48 | 25°16 | 17°58 | 23°29 | 29°20 | 6°40 | 8° 6 | 6°15 | 27°42 | 26°31 | 5°16 | 6°47 | 20° 7 | 28°35 | T 18 | | | | | |
| W19 | 9 56 19 | 0♈12'33 | 9♌27 | 19°36 | 23°17 | 0°V 7 | 6°37 | 8°13 | 6°19 | 27°40 | 26°32 | 5°17 | 6°44 | 20°13 | 28°32 | W19 | | | | | |
| T 20 | 10 0 15 | 1°13'16 | 23°38 | 21°15 | 23° 2 | 0°53 | 6°35 | 8°20 | 6°22 | 27°39 | 26°33 | 5°18 | 6°41 | 20°20 | 28°28 | T 20 | | | | | |
| F 21 | 10 4 12 | 2°13'57 | 7♌46 | 22°55 | 22°45 | 1°40 | 6°33 | 8°27 | 6°25 | 27°37 | 26°34 | 5°R19 | 6°37 | 20°27 | 28°24 | F 21 | | | | | |
| S 22 | 10 8 8 | 3°14'37 | 21°51 | 24°35 | 22°25 | 2°26 | 6°32 | 8°34 | 6°29 | 27°35 | 26°35 | 5°17 | 6°34 | 20°33 | 28°20 | S 22 | | | | | |
| S 23 | 10 12 5 | 4°15'15 | 5♉50 | 26°16 | 22° 3 | 3°13 | 6°30 | 8°42 | 6°32 | 27°34 | 26°35 | 5°14 | 6°31 | 20°40 | 28°16 | S 23 | | | | | |
| M24 | 10 16 1 | 5°15'52 | 19°41 | 27°59 | 21°39 | 4° 0 | 6°29 | 8°49 | 6°35 | 27°32 | 26°36 | 5°10 | 6°28 | 20°47 | 28°12 | M24 | | | | | |
| T 25 | 10 19 58 | 6°16'27 | 3♌22 | 29°42 | 21°13 | 4°46 | 6°28 | 8°56 | 6°38 | 27°30 | 26°37 | 5° 6 | 6°25 | 20°53 | 28° 8 | T 25 | | | | | |
| W26 | 10 23 55 | 7°17'00 | 16°51 | 1♈26 | 20°44 | 5°32 | 6°27 | 9° 3 | 6°42 | 27°29 | 26°38 | 5° 1 | 6°22 | 21° 0 | 28° 4 | W26 | | | | | |
| T 27 | 10 27 51 | 8°17'32 | 0♈ 7 | 3°10 | 20°14 | 6°19 | 6°26 | 9°11 | 6°45 | 27°27 | 26°39 | 4°57 | 6°18 | 21° 7 | 28° 0 | T 27 | | | | | |
| F 28 | 10 31 48 | 9♈18'02 | 13♈ 6 | 4♈56 | 19♈42 | 7°V 5 | 6♉25 | 9♈18 | 6♌48 | 27♌25 | 26°V40 | 4°V54 | 6°V15 | 21♌13 | 27♈55 | F 28 | | | | | |

Delta T = 19m07s

ASTRODIENST EPHEMERIS for the year 2583
geocentric

MARCH 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------|-------|-------|--------|-------|-------|-------|------|--------|--------|-------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| S 1 | 10 35 44 | 10♋18'30 | 25♎50 | 6♋43 | 19°R 9 | 7♏52 | 6°R25 | 9♋25 | 6♁51 | 27°R24 | 26♏41 | 4°R53 | 6♏12 | 21♎20 | 27°R51 | S 1 | | | | | | | | |
| S 2 | 10 39 41 | 11°18'57 | 8♌18 | 8°30 | 18♋34 | 8°38 | 6°D25 | 9°32 | 6°54 | 27♎22 | 26°42 | 4°D52 | 6° 9 | 21°27 | 27♎47 | S 2 | | | | | | | | |
| M 3 | 10 43 37 | 12°19'23 | 20°32 | 10°19 | 17°58 | 9°24 | 6♁25 | 9°40 | 6°57 | 27°20 | 26°44 | 4♏53 | 6° 6 | 21°33 | 27°42 | M 3 | | | | | | | | |
| T 4 | 10 47 34 | 13°19'47 | 2♎35 | 12° 8 | 17°21 | 10°11 | 6°25 | 9°47 | 7° 0 | 27°19 | 26°45 | 4°55 | 6° 2 | 21°40 | 27°38 | T 4 | | | | | | | | |
| W 5 | 10 51 30 | 14°20'10 | 14°29 | 13°59 | 16°44 | 10°57 | 6°26 | 9°54 | 7° 3 | 27°17 | 26°46 | 4°56 | 5°59 | 21°47 | 27°33 | W 5 | | | | | | | | |
| T 6 | 10 55 27 | 15°20'32 | 26°20 | 15°50 | 16° 7 | 11°43 | 6°26 | 10° 1 | 7° 6 | 27°16 | 26°47 | 4°58 | 5°56 | 21°53 | 27°29 | T 6 | | | | | | | | |
| F 7 | 10 59 24 | 16°20'52 | 8♌11 | 17°42 | 15°29 | 12°29 | 6°27 | 10° 9 | 7° 9 | 27°14 | 26°48 | 4°59 | 5°53 | 22° 0 | 27°24 | F 7 | | | | | | | | |
| S 8 | 11 3 20 | 17°21'11 | 20° 8 | 19°35 | 14°52 | 13°15 | 6°28 | 10°16 | 7°12 | 27°12 | 26°49 | 4°R59 | 5°50 | 22° 7 | 27°20 | S 8 | | | | | | | | |
| S 9 | 11 7 17 | 18°21'28 | 2♎15 | 21°28 | 14°15 | 14° 1 | 6°30 | 10°23 | 7°15 | 27°11 | 26°50 | 4°58 | 5°47 | 22°14 | 27°15 | S 9 | | | | | | | | |
| M10 | 11 11 13 | 19°21'44 | 14°37 | 23°22 | 13°39 | 14°47 | 6°31 | 10°30 | 7°18 | 27° 9 | 26°51 | 4°57 | 5°43 | 22°20 | 27°11 | M10 | | | | | | | | |
| T 11 | 11 15 10 | 20°21'59 | 27°17 | 25°17 | 13° 4 | 15°33 | 6°33 | 10°37 | 7°21 | 27° 8 | 26°53 | 4°55 | 5°40 | 22°27 | 27° 6 | T 11 | | | | | | | | |
| W12 | 11 19 6 | 21°22'12 | 10♁19 | 27°12 | 12°30 | 16°19 | 6°35 | 10°45 | 7°23 | 27° 6 | 26°54 | 4°53 | 5°37 | 22°34 | 27° 1 | W12 | | | | | | | | |
| T 13 | 11 23 3 | 22°22'23 | 23°44 | 29° 8 | 11°57 | 17° 5 | 6°37 | 10°52 | 7°26 | 27° 5 | 26°55 | 4°52 | 5°34 | 22°40 | 26°56 | T 13 | | | | | | | | |
| F 14 | 11 26 59 | 23°22'33 | 7♋31 | 1°Y 3 | 11°26 | 17°51 | 6°39 | 10°59 | 7°29 | 27° 3 | 26°56 | 4°50 | 5°31 | 22°47 | 26°52 | F 14 | | | | | | | | |
| S 15 | 11 30 56 | 24°22'41 | 21°38 | 2°59 | 10°57 | 18°37 | 6°41 | 11° 6 | 7°32 | 27° 2 | 26°57 | 4°49 | 5°28 | 22°54 | 26°47 | S 15 | | | | | | | | |
| S 16 | 11 34 53 | 25°22'47 | 6♏ 2 | 4°54 | 10°29 | 19°23 | 6°44 | 11°13 | 7°34 | 27° 0 | 26°59 | 4°D49 | 5°24 | 23° 0 | 26°42 | S 16 | | | | | | | | |
| M17 | 11 38 49 | 26°22'51 | 20°36 | 6°49 | 10° 4 | 20° 9 | 6°47 | 11°20 | 7°37 | 26°59 | 27° 0 | 4°49 | 5°21 | 23° 7 | 26°38 | M17 | | | | | | | | |
| T 18 | 11 42 46 | 27°22'53 | 5♌14 | 8°43 | 9°40 | 20°55 | 6°50 | 11°27 | 7°39 | 26°57 | 27° 1 | 4°50 | 5°18 | 23°14 | 26°33 | T 18 | | | | | | | | |
| W19 | 11 46 42 | 28°22'54 | 19°50 | 10°35 | 9°19 | 21°40 | 6°53 | 11°34 | 7°42 | 26°56 | 27° 2 | 4°50 | 5°15 | 23°20 | 26°28 | W19 | | | | | | | | |
| T 20 | 11 50 39 | 29°22'52 | 4♎20 | 12°26 | 9° 1 | 22°26 | 6°56 | 11°41 | 7°45 | 26°55 | 27° 4 | 4°51 | 5°12 | 23°27 | 26°23 | T 20 | | | | | | | | |
| F 21 | 11 54 35 | 0°Y22'48 | 18°38 | 14°15 | 8°44 | 23°12 | 7° 0 | 11°48 | 7°47 | 26°53 | 27° 5 | 4°51 | 5° 8 | 23°34 | 26°19 | F 21 | | | | | | | | |
| S 22 | 11 58 32 | 1°22'42 | 2♁43 | 16° 2 | 8°30 | 23°57 | 7° 4 | 11°55 | 7°50 | 26°52 | 27° 6 | 4°R51 | 5° 5 | 23°40 | 26°14 | S 22 | | | | | | | | |
| S 23 | 12 2 28 | 2°22'34 | 16°32 | 17°45 | 8°19 | 24°43 | 7° 8 | 12° 2 | 7°52 | 26°51 | 27° 7 | 4°51 | 5° 2 | 23°47 | 26° 9 | S 23 | | | | | | | | |
| M24 | 12 6 25 | 3°22'23 | 0♎ 6 | 19°25 | 8°10 | 25°28 | 7°12 | 12° 9 | 7°54 | 26°49 | 27° 9 | 4°51 | 4°59 | 23°54 | 26° 4 | M24 | | | | | | | | |
| T 25 | 12 10 22 | 4°22'11 | 13°25 | 21° 1 | 8° 3 | 26°14 | 7°16 | 12°16 | 7°57 | 26°48 | 27°10 | 4°D51 | 4°56 | 24° 1 | 26° 0 | T 25 | | | | | | | | |
| W26 | 12 14 18 | 5°21'56 | 26°29 | 22°32 | 7°59 | 26°59 | 7°20 | 12°23 | 7°59 | 26°47 | 27°11 | 4°51 | 4°53 | 24° 7 | 25°55 | W26 | | | | | | | | |
| T 27 | 12 18 15 | 6°21'39 | 9♎20 | 23°59 | 7°D57 | 27°44 | 7°25 | 12°30 | 8° 1 | 26°46 | 27°13 | 4°51 | 4°49 | 24°14 | 25°50 | T 27 | | | | | | | | |
| F 28 | 12 22 11 | 7°21'19 | 21°58 | 25°20 | 7°58 | 28°30 | 7°30 | 12°37 | 8° 3 | 26°44 | 27°14 | 4°51 | 4°46 | 24°21 | 25°46 | F 28 | | | | | | | | |
| S 29 | 12 26 8 | 8°20'58 | 4♌24 | 26°36 | 8° 1 | 29°15 | 7°35 | 12°44 | 8° 6 | 26°43 | 27°15 | 4°R51 | 4°43 | 24°27 | 25°41 | S 29 | | | | | | | | |
| S 30 | 12 30 4 | 9°20'35 | 16°39 | 27°45 | 8° 6 | 0♎ 0 | 7°40 | 12°50 | 8° 8 | 26°42 | 27°17 | 4°51 | 4°40 | 24°34 | 25°37 | S 30 | | | | | | | | |
| M31 | 12 34 1 | 10°Y20'10 | 28♌45 | 28♏47 | 8♋14 | 0♎45 | 7♁45 | 12♋57 | 8♁10 | 26♎41 | 27°Y18 | 4°Y51 | 4°Y37 | 24♎41 | 25♎32 | M31 | | | | | | | | |

Delta T = 19m07s

APRIL 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------|--------|--------|-------|-------|-------|-------|------|--------|--------|-------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| T 1 | 12 37 57 | 11°Y19'43 | 10♎43 | 29♏43 | 8♋24 | 1♎31 | 7♁51 | 13♋ 4 | 8♁12 | 26°R40 | 27°Y20 | 4°R50 | 4°Y34 | 24♎47 | 25°R28 | T 1 | | | | | | | | |
| W 2 | 12 41 54 | 12°19'14 | 22°37 | 0♎31 | 8°36 | 2°16 | 7°56 | 13°10 | 8°14 | 26♎39 | 27°21 | 4°Y49 | 4°30 | 24°54 | 25♎23 | W 2 | | | | | | | | |
| T 3 | 12 45 50 | 13°18'43 | 4♌27 | 1°13 | 8°50 | 3° 1 | 8° 2 | 13°17 | 8°16 | 26°38 | 27°22 | 4°48 | 4°27 | 25° 1 | 25°19 | T 3 | | | | | | | | |
| F 4 | 12 49 47 | 14°18'11 | 16°19 | 1°46 | 9° 6 | 3°46 | 8° 8 | 13°24 | 8°18 | 26°37 | 27°24 | 4°47 | 4°24 | 25° 7 | 25°15 | F 4 | | | | | | | | |
| S 5 | 12 53 44 | 15°17'37 | 28°15 | 2°12 | 9°24 | 4°31 | 8°14 | 13°30 | 8°20 | 26°36 | 27°25 | 4°46 | 4°21 | 25°14 | 25°10 | S 5 | | | | | | | | |
| S 6 | 12 57 40 | 16°17'01 | 10♎21 | 2°30 | 9°44 | 5°16 | 8°20 | 13°37 | 8°22 | 26°35 | 27°27 | 4°45 | 4°18 | 25°21 | 25° 6 | S 6 | | | | | | | | |
| M 7 | 13 1 37 | 17°16'23 | 22°39 | 2°41 | 10° 6 | 6° 0 | 8°27 | 13°43 | 8°23 | 26°34 | 27°28 | 4°D45 | 4°14 | 25°28 | 25° 2 | M 7 | | | | | | | | |
| T 8 | 13 5 33 | 18°15'44 | 5♁16 | 2°R44 | 10°30 | 6°45 | 8°33 | 13°50 | 8°25 | 26°33 | 27°29 | 4°46 | 4°11 | 25°34 | 24°58 | T 8 | | | | | | | | |
| W 9 | 13 9 30 | 19°15'03 | 18°14 | 2°40 | 10°56 | 7°30 | 8°40 | 13°56 | 8°27 | 26°32 | 27°31 | 4°47 | 4° 8 | 25°41 | 24°54 | W 9 | | | | | | | | |
| T 10 | 13 13 26 | 20°14'20 | 1♋37 | 2°29 | 11°23 | 8°15 | 8°47 | 14° 2 | 8°28 | 26°31 | 27°32 | 4°48 | 4° 5 | 25°48 | 24°50 | T 10 | | | | | | | | |
| F 11 | 13 17 23 | 21°13'35 | 15°26 | 2°11 | 11°51 | 8°59 | 8°54 | 14° 9 | 8°30 | 26°30 | 27°34 | 4°49 | 4° 2 | 25°54 | 24°46 | F 11 | | | | | | | | |
| S 12 | 13 21 19 | 22°12'48 | 29°41 | 1°47 | 12°22 | 9°44 | 9° 1 | 14°15 | 8°32 | 26°29 | 27°35 | 4°R50 | 3°59 | 26° 1 | 24°42 | S 12 | | | | | | | | |
| S 13 | 13 25 16 | 23°12'00 | 14°Y18 | 1°17 | 12°53 | 10°29 | 9° 8 | 14°21 | 8°33 | 26°29 | 27°36 | 4°50 | 3°55 | 26° 8 | 24°38 | S 13 | | | | | | | | |
| M14 | 13 29 13 | 24°11'09 | 29°11 | 0°43 | 13°27 | 11°13 | 9°16 | 14°27 | 8°35 | 26°28 | 27°38 | 4°49 | 3°52 | 26°14 | 24°34 | M14 | | | | | | | | |
| T 15 | 13 33 9 | 25°10'17 | 14♌14 | 0° 4 | 14° 1 | 11°58 | 9°23 | 14°33 | 8°36 | 26°27 | 27°39 | 4°47 | 3°49 | 26°21 | 24°31 | T 15 | | | | | | | | |
| W16 | 13 37 6 | 26° 9'23 | 29°16 | 29♏22 | 14°37 | 12°42 | 9°31 | 14°39 | 8°37 | 26°27 | 27°41 | 4°44 | 3°46 | 26°28 | 24°27 | W16 | | | | | | | | |
| T 17 | 13 41 2 | 27° 8'26 | 14♎ 9 | 28°38 | 15°14 | 13°26 | 9°39 | 14°45 | 8°39 | 26°26 | 27°42 | 4°41 | 3°43 | 26°34 | 24°24 | T 17 | | | | | | | | |
| F 18 | 13 44 59 | 28° 7'27 | 28°46 | 27°52 | 15°52 | 14°11 | 9°47 | 14°51 | 8°40 | 26°25 | 27°44 | 4°38 | 3°40 | 26°41 | 24°20 | F 18 | | | | | | | | |
| S 19 | 13 48 55 | 29° 6'26 | 13♁ 1 | 27° 5 | 16°31 | 14°55 | 9°55 | 14°57 | 8°41 | 26°25 | 27°45 | 4°36 | 3°36 | 26°48 | 24°17 | S 19 | | | | | | | | |
| S 20 | 13 52 52 | 0♎ 5'23 | 26°54 | 26°19 | 17°12 | 15°39 | 10° 3 | 15° 3 | 8°42 | 26°24 | 27°46 | 4°D36 | 3°33 | 26°55 | 24°13 | S 20 | | | | | | | | |
| M21 | 13 56 49 | 1° 4'17 | 10♎23 | 25°34 | 17°53 | 16°24 | 10°12 | 15° 9 | 8°44 | 26°24 | 27°48 | 4°36 | 3°30 | 27° 1 | 24°10 | M21 | | | | | | | | |
| T 22 | 14 0 45 | 2° 3'09 | 23°31 | 24°51 | 18°36 | 17° 8 | 10°20 | 15°15 | 8°45 | 26°23 | 27°49 | 4°37 | 3°27 | 27° 8 | 24° 7 | T 22 | | | | | | | | |
| W23 | 14 4 42 | 3° 1'59 | 6♎21 | 24°10 | 19°19 | 17°52 | 10°29 | 15°20 | 8°46 | 26°23 | 27°51 | 4°39 | 3°24 | 27°15 | 24° 4 | W23 | | | | | | | | |
| T 24 | 14 8 38 | 4° 0'47 | 18°54 | 23°33 | 20° 4 | 18°36 | 10°38 | 15°26 | 8°47 | 26°22 | 27°52 | 4°40 | 3°20 | 27°21 | 24° 1 | T 24 | | | | | | | | |
| F 25 | 14 12 35 | 4°59'32 | 1♌15 | 22°59 | 20°49 | 19°20 | 10°46 | 15°31 | 8°48 | 26°22 | 27°53 | 4°R41 | 3°17 | 27°28 | 23°58 | F 25 | | | | | | | | |
| S 26 | 14 16 31 | 5°58'15 | 13°25 | 22°30 | 21°35 | 20° 4 | 10°55 | 15°37 | 8°49 | 26°21 | 27°55 | 4°41 | 3°14 | 27°35 | 23°56 | S 26 | | | | | | | | |
| S 27 | 14 20 28 | 6°56'56 | 25°28 | 22° 5 | 22°22 | 20°48 | 11° 4 | 15°42 | 8°49 | 26°21 | 27°56 | 4°39 | 3°11 | 27°41 | 23°53 | S 27 | | | | | | | | |
| M28 | 14 24 24 | 7°55'36 | 7♎25 | 21°45 | 23°10 | 21°31 | 11°14 | 15°48 | 8°50 | 26°21 | 27°58 | 4°35 | 3° 8 | 27°48 | 23°50 | M28 | | | | | | | | |
| T 29 | 14 28 21 | 8°54'13 | 19°19 | 21°30 | 23°59 | 22°15 | 11°23 | 15°53 | 8°51 | 26°20 | 27°59 | 4°30 | 3° 5 | 27°55 | 23°48 | T 29 | | | | | | | | |
| W30 | 14 32 17 | 9♎52'49 | 1♌10 | 21°Y20 | 24♋48 | 22♎59 | 11♁32 | 15♋58 | 8♁52 | 26♎20 | 28°Y 1 | 4°Y24 | 3°Y 1 | 28♎ 2 | 23♎45 | W30 | | | | | | | | |

Delta T = 19m08s

ASTRODIENST EPHEMERIS for the year 2583
geocentric

MAY 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|------|-------|--------|------|-----|
| T 1 | 14 36 14 | 10♌51'23 | 13♌ 2 | 21°D15 | 25♋38 | 23♌43 | 11♌42 | 16♋ 3 | 8♌52 | 26°R20 | 28♌ 2 | 4°R18 | 2♌58 | 28♌ 8 | 23°R43 | T 1 | |
| F 2 | 14 40 11 | 11°49'55 | 24°55 | 21♌15 | 26°29 | 24°26 | 11°52 | 16° 9 | 8°53 | 26♌20 | 28° 3 | 4♌11 | 2°55 | 28°15 | 23♌41 | F 2 | |
| S 3 | 14 44 7 | 12°48'25 | 6♌53 | 21°20 | 27°21 | 25°10 | 12° 1 | 16°14 | 8°53 | 26°20 | 28° 5 | 4° 5 | 2°52 | 28°22 | 23°39 | S 3 | |
| S 4 | 14 48 4 | 13°46'54 | 18°59 | 21°30 | 28°13 | 25°53 | 12°11 | 16°19 | 8°54 | 26°20 | 28° 6 | 4° 1 | 2°49 | 28°28 | 23°37 | S 4 | |
| M 5 | 14 52 0 | 14°45'21 | 1♌17 | 21°45 | 29° 6 | 26°37 | 12°21 | 16°24 | 8°54 | 26°19 | 28° 7 | 3°58 | 2°45 | 28°35 | 23°35 | M 5 | |
| T 6 | 14 55 57 | 15°43'47 | 13°50 | 22° 5 | 29°59 | 27°20 | 12°31 | 16°28 | 8°55 | 26°19 | 28° 9 | 3°D57 | 2°42 | 28°42 | 23°33 | T 6 | |
| W 7 | 14 59 53 | 16°42'11 | 26°42 | 22°29 | 0♌53 | 28° 4 | 12°41 | 16°33 | 8°55 | 26°D19 | 28°10 | 3°57 | 2°39 | 28°48 | 23°32 | W 7 | |
| T 8 | 15 3 50 | 17°40'33 | 9♋58 | 22°57 | 1°47 | 28°47 | 12°52 | 16°38 | 8°55 | 26°19 | 28°12 | 3°58 | 2°36 | 28°55 | 23°30 | T 8 | |
| F 9 | 15 7 46 | 18°38'54 | 23°40 | 23°30 | 2°42 | 29°30 | 13° 2 | 16°42 | 8°56 | 26°19 | 28°13 | 4° 0 | 2°33 | 29° 2 | 23°28 | F 9 | |
| S 10 | 15 11 43 | 19°37'14 | 7♌49 | 24° 6 | 3°38 | 0♌13 | 13°12 | 16°47 | 8°56 | 26°20 | 28°14 | 4°R 0 | 2°30 | 29° 8 | 23°27 | S 10 | |
| S 11 | 15 15 40 | 20°35'31 | 22°25 | 24°47 | 4°34 | 0°57 | 13°23 | 16°52 | 8°56 | 26°20 | 28°16 | 3°59 | 2°26 | 29°15 | 23°26 | S 11 | |
| M12 | 15 19 36 | 21°33'48 | 7♌23 | 25°31 | 5°31 | 1°40 | 13°34 | 16°56 | 8°56 | 26°20 | 28°17 | 3°55 | 2°23 | 29°22 | 23°25 | M12 | |
| T 13 | 15 23 33 | 22°32'03 | 22°36 | 26°18 | 6°27 | 2°23 | 13°44 | 17° 0 | 8°R56 | 26°20 | 28°18 | 3°50 | 2°20 | 29°29 | 23°24 | T 13 | |
| W14 | 15 27 29 | 23°30'16 | 7♌53 | 27° 9 | 7°25 | 3° 6 | 13°55 | 17° 5 | 8°56 | 26°20 | 28°20 | 3°43 | 2°17 | 29°35 | 23°23 | W14 | |
| T 15 | 15 31 26 | 24°28'27 | 23° 3 | 28° 4 | 8°23 | 3°49 | 14° 6 | 17° 9 | 8°56 | 26°20 | 28°21 | 3°35 | 2°14 | 29°42 | 23°22 | T 15 | |
| F 16 | 15 35 22 | 25°26'37 | 7♌57 | 29° 1 | 9°21 | 4°32 | 14°17 | 17°13 | 8°56 | 26°21 | 28°22 | 3°28 | 2°11 | 29°49 | 23°21 | F 16 | |
| S 17 | 15 39 19 | 26°24'45 | 22°27 | 0♌ 1 | 10°19 | 5°15 | 14°28 | 17°17 | 8°56 | 26°21 | 28°23 | 3°22 | 2° 7 | 29°55 | 23°21 | S 17 | |
| S 18 | 15 43 16 | 27°22'51 | 6♌29 | 1° 5 | 11°18 | 5°58 | 14°39 | 17°21 | 8°56 | 26°21 | 28°25 | 3°18 | 2° 4 | 0♌ 2 | 23°20 | S 18 | |
| M19 | 15 47 12 | 28°20'54 | 20° 3 | 2°11 | 12°18 | 6°40 | 14°50 | 17°25 | 8°55 | 26°22 | 28°26 | 3°16 | 2° 1 | 0° 9 | 23°20 | M19 | |
| T 20 | 15 51 9 | 29°18'56 | 3♌10 | 3°20 | 13°17 | 7°23 | 15° 2 | 17°28 | 8°55 | 26°22 | 28°27 | 3°D16 | 1°58 | 0°16 | 23°20 | T 20 | |
| W21 | 15 55 5 | 0♌16'56 | 15°55 | 4°31 | 14°17 | 8° 6 | 15°13 | 17°32 | 8°55 | 26°23 | 28°28 | 3°16 | 1°55 | 0°22 | 23°19 | W21 | |
| T 22 | 15 59 2 | 1°14'54 | 28°20 | 5°45 | 15°18 | 8°49 | 15°24 | 17°36 | 8°54 | 26°23 | 28°30 | 3°R17 | 1°51 | 0°29 | 23°D19 | T 22 | |
| F 23 | 16 2 58 | 2°12'51 | 10♌31 | 7° 2 | 16°18 | 9°31 | 15°36 | 17°39 | 8°54 | 26°24 | 28°31 | 3°17 | 1°48 | 0°36 | 23°20 | F 23 | |
| S 24 | 16 6 55 | 3°10'46 | 22°33 | 8°21 | 17°19 | 10°14 | 15°48 | 17°43 | 8°53 | 26°24 | 28°32 | 3°15 | 1°45 | 0°42 | 23°20 | S 24 | |
| S 25 | 16 10 51 | 4° 8'39 | 4♌28 | 9°42 | 18°20 | 10°56 | 15°59 | 17°46 | 8°53 | 26°25 | 28°33 | 3°11 | 1°42 | 0°49 | 23°20 | S 25 | |
| M26 | 16 14 48 | 5° 6'30 | 16°19 | 11° 6 | 19°22 | 11°39 | 16°11 | 17°49 | 8°52 | 26°25 | 28°35 | 3° 4 | 1°39 | 0°56 | 23°20 | M26 | |
| T 27 | 16 18 45 | 6° 4'20 | 28°10 | 12°32 | 20°24 | 12°21 | 16°23 | 17°52 | 8°51 | 26°26 | 28°36 | 2°55 | 1°36 | 1° 2 | 23°21 | T 27 | |
| W28 | 16 22 41 | 7° 2'09 | 10♌ 2 | 14° 0 | 21°26 | 13° 3 | 16°35 | 17°56 | 8°51 | 26°27 | 28°37 | 2°43 | 1°32 | 1° 9 | 23°22 | W28 | |
| T 29 | 16 26 38 | 7°59'56 | 21°56 | 15°31 | 22°28 | 13°46 | 16°47 | 17°59 | 8°50 | 26°27 | 28°38 | 2°31 | 1°29 | 1°16 | 23°22 | T 29 | |
| F 30 | 16 30 34 | 8°57'42 | 3♌55 | 17° 4 | 23°31 | 14°28 | 16°59 | 18° 2 | 8°49 | 26°28 | 28°39 | 2°19 | 1°26 | 1°23 | 23°23 | F 30 | |
| S 31 | 16 34 31 | 9♌55'27 | 15♌59 | 18♌39 | 24♌34 | 15♌10 | 17♌11 | 18♌ 4 | 8♌48 | 26♌29 | 28♌40 | 2♌ 8 | 1♌23 | 1♌29 | 23♌24 | S 31 | |

Delta T = 19m08s

JUNE 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------|-------|------|-----|
| S 1 | 16 38 27 | 10♌53'11 | 28♌10 | 20♌17 | 25♌37 | 15♌52 | 17♌23 | 18♌ 7 | 8°R48 | 26♌30 | 28♌41 | 1°R59 | 1♌20 | 1♌36 | 23♌25 | S 1 | |
| M 2 | 16 42 24 | 11°50'53 | 10♌32 | 21°56 | 26°40 | 16°34 | 17°35 | 18°10 | 8♌47 | 26°30 | 28°43 | 1♌53 | 1°17 | 1°43 | 23°27 | M 2 | |
| T 3 | 16 46 20 | 12°48'34 | 23° 6 | 23°38 | 27°44 | 17°16 | 17°47 | 18°12 | 8°46 | 26°31 | 28°44 | 1°49 | 1°13 | 1°49 | 23°28 | T 3 | |
| W 4 | 16 50 17 | 13°46'15 | 5♋57 | 25°23 | 28°48 | 17°58 | 17°59 | 18°15 | 8°45 | 26°32 | 28°45 | 1°47 | 1°10 | 1°56 | 23°29 | W 4 | |
| T 5 | 16 54 14 | 14°43'54 | 19° 7 | 27° 9 | 29°52 | 18°40 | 18°12 | 18°17 | 8°44 | 26°33 | 28°46 | 1°D47 | 1° 7 | 2° 3 | 23°31 | T 5 | |
| F 6 | 16 58 10 | 15°41'33 | 2♌41 | 28°58 | 0♌56 | 19°22 | 18°24 | 18°19 | 8°42 | 26°34 | 28°47 | 1°R47 | 1° 4 | 2° 9 | 23°33 | F 6 | |
| S 7 | 17 2 7 | 16°39'10 | 16°40 | 0♌49 | 2° 1 | 20° 4 | 18°37 | 18°22 | 8°41 | 26°35 | 28°48 | 1°47 | 1° 1 | 2°16 | 23°34 | S 7 | |
| S 8 | 17 6 3 | 17°36'47 | 1♌ 5 | 2°42 | 3° 5 | 20°46 | 18°49 | 18°24 | 8°40 | 26°36 | 28°49 | 1°44 | 0°57 | 2°23 | 23°36 | S 8 | |
| M 9 | 17 10 0 | 18°34'23 | 15°54 | 4°37 | 4°10 | 21°28 | 19° 2 | 18°26 | 8°39 | 26°37 | 28°50 | 1°39 | 0°54 | 2°30 | 23°38 | M 9 | |
| T 10 | 17 13 56 | 19°31'58 | 1♌ 0 | 6°35 | 5°15 | 22° 9 | 19°14 | 18°28 | 8°38 | 26°38 | 28°51 | 1°31 | 0°51 | 2°36 | 23°40 | T 10 | |
| W11 | 17 17 53 | 20°29'32 | 16°15 | 8°34 | 6°20 | 22°51 | 19°27 | 18°30 | 8°36 | 26°39 | 28°52 | 1°22 | 0°48 | 2°43 | 23°42 | W11 | |
| T 12 | 17 21 49 | 21°27'06 | 1♌27 | 10°36 | 7°26 | 23°33 | 19°39 | 18°31 | 8°35 | 26°40 | 28°53 | 1°11 | 0°45 | 2°50 | 23°45 | T 12 | |
| F 13 | 17 25 46 | 22°24'38 | 16°27 | 12°39 | 8°31 | 24°14 | 19°52 | 18°33 | 8°34 | 26°42 | 28°54 | 1° 0 | 0°42 | 2°56 | 23°47 | F 13 | |
| S 14 | 17 29 43 | 23°22'09 | 1♌ 5 | 14°44 | 9°37 | 24°56 | 20° 5 | 18°34 | 8°32 | 26°43 | 28°55 | 0°52 | 0°38 | 3° 3 | 23°50 | S 14 | |
| S 15 | 17 33 39 | 24°19'39 | 15°15 | 16°51 | 10°43 | 25°37 | 20°18 | 18°36 | 8°31 | 26°44 | 28°55 | 0°45 | 0°35 | 3°10 | 23°52 | S 15 | |
| M16 | 17 37 36 | 25°17'07 | 28°55 | 19° 0 | 11°49 | 26°19 | 20°31 | 18°37 | 8°29 | 26°45 | 28°56 | 0°41 | 0°32 | 3°17 | 23°55 | M16 | |
| T 17 | 17 41 32 | 26°14'35 | 12♌ 7 | 21° 9 | 12°55 | 27° 0 | 20°44 | 18°38 | 8°28 | 26°46 | 28°57 | 0°39 | 0°29 | 3°23 | 23°58 | T 17 | |
| W18 | 17 45 29 | 27°12'01 | 24°53 | 23°20 | 14° 1 | 27°42 | 20°56 | 18°40 | 8°26 | 26°48 | 28°58 | 0°38 | 0°26 | 3°30 | 24° 1 | W18 | |
| T 19 | 17 49 25 | 28° 9'26 | 7♌18 | 25°31 | 15° 7 | 28°23 | 21° 9 | 18°41 | 8°24 | 26°49 | 28°59 | 0°38 | 0°23 | 3°37 | 24° 4 | T 19 | |
| F 20 | 17 53 22 | 29° 6'50 | 19°28 | 27°43 | 16°14 | 29° 4 | 21°22 | 18°41 | 8°23 | 26°50 | 29° 0 | 0°38 | 0°19 | 3°43 | 24° 7 | F 20 | |
| S 21 | 17 57 18 | 0♌ 4'13 | 1♌26 | 29°55 | 17°21 | 29°45 | 21°35 | 18°42 | 8°21 | 26°52 | 29° 0 | 0°35 | 0°16 | 3°50 | 24°10 | S 21 | |
| S 22 | 18 1 15 | 1° 1'35 | 13°18 | 29° 7 | 18°27 | 0♌26 | 21°48 | 18°43 | 8°19 | 26°53 | 29° 1 | 0°30 | 0°13 | 3°57 | 24°14 | S 22 | |
| M23 | 18 5 12 | 1°58'57 | 25° 8 | 4°19 | 19°34 | 1° 8 | 22° 2 | 18°44 | 8°18 | 26°55 | 29° 2 | 0°22 | 0°10 | 4° 4 | 24°17 | M23 | |
| T 24 | 18 9 8 | 2°56'17 | 6♌59 | 6°30 | 20°41 | 1°49 | 22°15 | 18°44 | 8°16 | 26°56 | 29° 3 | 0°12 | 0° 7 | 4°10 | 24°21 | T 24 | |
| W25 | 18 13 5 | 3°53'37 | 18°54 | 8°41 | 21°49 | 2°30 | 22°28 | 18°45 | 8°14 | 26°57 | 29° 3 | 29♋59 | 0° 3 | 4°17 | 24°24 | W25 | |
| T 26 | 18 17 1 | 4°50'56 | 0♌54 | 10°50 | 22°56 | 3°11 | 22°41 | 18°45 | 8°12 | 26°59 | 29° 4 | 29°46 | 0° 0 | 4°24 | 24°28 | T 26 | |
| F 27 | 18 20 58 | 5°48'14 | 13° 0 | 12°58 | 24° 3 | 3°52 | 22°54 | 18°45 | 8°10 | 27° 0 | 29° 5 | 29°32 | 29♋57 | 4°30 | 24°32 | F 27 | |
| S 28 | 18 24 54 | 6°45'32 | 25°15 | 15° 5 | 25°11 | 4°33 | 23° 7 | 18°45 | 8° 8 | 27° 2 | 29° 6 | 29°20 | 29°54 | 4°37 | 24°36 | S 28 | |
| S 29 | 18 28 51 | 7°42'49 | 7♌37 | 17°10 | 26°19 | 5°13 | 23°21 | 18°R45 | 8° 6 | 27° 4 | 29° 6 | 29°10 | 29°51 | 4°44 | 24°40 | S 29 | |
| M30 | 18 32 48 | 8♌40'06 | 20♌10 | 19♌13 | 27♌26 | 5♌54 | 23♌34 | 18♌45 | 8♌ 4 | 27♌ 5 | 29♌ 7 | 29♌ 2 | 29♌48 | 4♌50 | 24♌44 | M30 | |

Delta T = 19m08s

ASTRODIENST EPHEMERIS for the year 2583
geocentric

JULY 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|------|-------|------|---|---|---|---|---|---|---|-----|
| T 1 | 18 36 44 | 9♄37'23 | 2♃54 | 21♅15 | 28♁34 | 6♁35 | 23♁47 | 18°R45 | 8°R 2 | 27♁ 7 | 29♁ 7 | 28°R57 | 29♁44 | 4♁57 | 24♁48 | T 1 | | | | | | | | |
| W 2 | 18 40 41 | 10°34'39 | 15°51 | 23°15 | 29°42 | 7°16 | 24° 1 | 18♁45 | 8♁ 0 | 27° 8 | 29° 8 | 28♁55 | 29°41 | 5° 4 | 24°53 | W 2 | | | | | | | | |
| T 3 | 18 44 37 | 11°31'56 | 29° 4 | 25°12 | 0♁50 | 7°56 | 24°14 | 18°45 | 7°58 | 27°10 | 29° 9 | 28°D55 | 29°38 | 5°11 | 24°57 | T 3 | | | | | | | | |
| F 4 | 18 48 34 | 12°29'12 | 12♁36 | 27° 8 | 1°59 | 8°37 | 24°27 | 18°44 | 7°56 | 27°12 | 29° 9 | 28°R55 | 29°35 | 5°17 | 25° 2 | F 4 | | | | | | | | |
| S 5 | 18 52 30 | 13°26'28 | 26°27 | 29° 1 | 3° 7 | 9°18 | 24°41 | 18°44 | 7°54 | 27°13 | 29°10 | 28°54 | 29°32 | 5°24 | 25° 6 | S 5 | | | | | | | | |
| S 6 | 18 56 27 | 14°23'44 | 10♁40 | 0♁52 | 4°16 | 9°58 | 24°54 | 18°43 | 7°52 | 27°15 | 29°10 | 28°52 | 29°29 | 5°31 | 25°11 | S 6 | | | | | | | | |
| M 7 | 19 0 23 | 15°21'00 | 25°13 | 2°42 | 5°24 | 10°39 | 25° 7 | 18°42 | 7°50 | 27°17 | 29°11 | 28°48 | 29°25 | 5°37 | 25°16 | M 7 | | | | | | | | |
| T 8 | 19 4 20 | 16°18'17 | 10♁11 | 4°29 | 6°33 | 11°19 | 25°21 | 18°42 | 7°48 | 27°19 | 29°11 | 28°41 | 29°22 | 5°44 | 25°20 | T 8 | | | | | | | | |
| W 9 | 19 8 17 | 17°15'33 | 25° 0 | 6°13 | 7°41 | 12° 0 | 25°34 | 18°41 | 7°45 | 27°20 | 29°12 | 28°32 | 29°19 | 5°51 | 25°25 | W 9 | | | | | | | | |
| T 10 | 19 12 13 | 18°12'49 | 9♁58 | 7°56 | 8°50 | 12°40 | 25°48 | 18°40 | 7°43 | 27°22 | 29°12 | 28°21 | 29°16 | 5°58 | 25°30 | T 10 | | | | | | | | |
| F 11 | 19 16 10 | 19°10'05 | 24°48 | 9°36 | 9°59 | 13°21 | 26° 1 | 18°38 | 7°41 | 27°24 | 29°12 | 28°12 | 29°13 | 6° 4 | 25°36 | F 11 | | | | | | | | |
| S 12 | 19 20 6 | 20° 7'21 | 9♁21 | 11°15 | 11° 8 | 14° 1 | 26°15 | 18°37 | 7°39 | 27°26 | 29°13 | 28° 3 | 29°10 | 6°11 | 25°41 | S 12 | | | | | | | | |
| S 13 | 19 24 3 | 21° 4'37 | 23°29 | 12°51 | 12°17 | 14°41 | 26°28 | 18°36 | 7°37 | 27°28 | 29°13 | 27°56 | 29° 6 | 6°18 | 25°46 | S 13 | | | | | | | | |
| M14 | 19 27 59 | 22° 1'52 | 7♁11 | 14°25 | 13°26 | 15°21 | 26°42 | 18°35 | 7°34 | 27°30 | 29°13 | 27°52 | 29° 3 | 6°24 | 25°51 | M14 | | | | | | | | |
| T 15 | 19 31 56 | 22°59'07 | 20°26 | 15°56 | 14°36 | 16° 2 | 26°55 | 18°33 | 7°32 | 27°32 | 29°14 | 27°51 | 29° 0 | 6°31 | 25°57 | T 15 | | | | | | | | |
| W16 | 19 35 52 | 23°56'22 | 3♁15 | 17°26 | 15°45 | 16°42 | 27° 9 | 18°31 | 7°30 | 27°33 | 29°14 | 27°D51 | 28°57 | 6°38 | 26° 2 | W16 | | | | | | | | |
| T 17 | 19 39 49 | 24°53'36 | 15°43 | 18°53 | 16°54 | 17°22 | 27°22 | 18°30 | 7°27 | 27°35 | 29°14 | 27°51 | 28°54 | 6°45 | 26° 8 | T 17 | | | | | | | | |
| F 18 | 19 43 46 | 25°50'51 | 27°54 | 20°18 | 18° 4 | 18° 2 | 27°36 | 18°28 | 7°25 | 27°37 | 29°15 | 27°R51 | 28°50 | 6°51 | 26°14 | F 18 | | | | | | | | |
| S 19 | 19 47 42 | 26°48'05 | 9♁54 | 21°40 | 19°13 | 18°42 | 27°49 | 18°26 | 7°23 | 27°39 | 29°15 | 27°50 | 28°47 | 6°58 | 26°20 | S 19 | | | | | | | | |
| S 20 | 19 51 39 | 27°45'19 | 21°47 | 23° 0 | 20°23 | 19°22 | 28° 3 | 18°24 | 7°20 | 27°41 | 29°15 | 27°47 | 28°44 | 7° 5 | 26°25 | S 20 | | | | | | | | |
| M21 | 19 55 35 | 28°42'33 | 3♁38 | 24°18 | 21°33 | 20° 2 | 28°16 | 18°22 | 7°18 | 27°43 | 29°15 | 27°42 | 28°41 | 7°11 | 26°31 | M21 | | | | | | | | |
| T 22 | 19 59 32 | 29°39'47 | 15°31 | 25°34 | 22°43 | 20°42 | 28°30 | 18°20 | 7°15 | 27°45 | 29°15 | 27°35 | 28°38 | 7°18 | 26°37 | T 22 | | | | | | | | |
| W23 | 20 3 28 | 0♁37'02 | 27°30 | 26°46 | 23°52 | 21°22 | 28°43 | 18°18 | 7°13 | 27°47 | 29°16 | 27°26 | 28°35 | 7°25 | 26°43 | W23 | | | | | | | | |
| T 24 | 20 7 25 | 1°34'16 | 9♁37 | 27°57 | 25° 2 | 22° 2 | 28°57 | 18°15 | 7°11 | 27°49 | 29°16 | 27°16 | 28°31 | 7°32 | 26°50 | T 24 | | | | | | | | |
| F 25 | 20 11 21 | 2°31'30 | 21°53 | 29° 4 | 26°12 | 22°42 | 29°10 | 18°13 | 7° 8 | 27°51 | 29°16 | 27° 6 | 28°28 | 7°38 | 26°56 | F 25 | | | | | | | | |
| S 26 | 20 15 18 | 3°28'45 | 4♁21 | 0♁9 | 27°23 | 23°21 | 29°23 | 18°11 | 7° 6 | 27°53 | 29°16 | 26°57 | 28°25 | 7°45 | 27° 2 | S 26 | | | | | | | | |
| S 27 | 20 19 15 | 4°26'00 | 16°59 | 1°12 | 28°33 | 24° 1 | 29°37 | 18° 8 | 7° 4 | 27°55 | 29°16 | 26°49 | 28°22 | 7°52 | 27° 8 | S 27 | | | | | | | | |
| M28 | 20 23 11 | 5°23'15 | 29°49 | 2°11 | 29°43 | 24°41 | 29°50 | 18° 5 | 7° 1 | 27°57 | 29°16 | 26°44 | 28°19 | 7°58 | 27°15 | M28 | | | | | | | | |
| T 29 | 20 27 8 | 6°20'31 | 12♁50 | 3° 7 | 0♁53 | 25°20 | 0♁ 4 | 18° 3 | 6°59 | 28° 0 | 29°R16 | 26°41 | 28°15 | 8° 5 | 27°21 | T 29 | | | | | | | | |
| W30 | 20 31 4 | 7°17'48 | 26° 4 | 4° 0 | 2° 4 | 26° 0 | 0°17 | 18° 0 | 6°56 | 28° 2 | 29°R16 | 26°D40 | 28°12 | 8°12 | 27°28 | W30 | | | | | | | | |
| T 31 | 20 35 1 | 8♁15'05 | 9♁29 | 4♁50 | 3♁14 | 26♁40 | 0♁31 | 17♁57 | 6♁54 | 28♁ 4 | 29°R16 | 26♁41 | 28♁ 9 | 8♁19 | 27♁35 | T 31 | | | | | | | | |

Delta T = 19m08s

AUGUST 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|------|--------|-------|-------|--------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| F 1 | 20 38 57 | 9♁12'23 | 23♁ 9 | 5♁37 | 4♁25 | 27♁19 | 0♁44 | 17°R54 | 6°R51 | 28♁ 6 | 29°R16 | 26♁42 | 28♁ 6 | 8♁25 | 27♁41 | F 1 | | | | | | | | |
| S 2 | 20 42 54 | 10° 9'42 | 7♁ 1 | 6°20 | 5°35 | 27°59 | 0°58 | 17♁51 | 6♁49 | 28° 8 | 29°R16 | 26°R43 | 28° 3 | 8°32 | 27°48 | S 2 | | | | | | | | |
| S 3 | 20 46 50 | 11° 7'01 | 21° 8 | 6°59 | 6°46 | 28°38 | 1°11 | 17°48 | 6°47 | 28°10 | 29°16 | 26°42 | 28° 0 | 8°39 | 27°55 | S 3 | | | | | | | | |
| M 4 | 20 50 47 | 12° 4'22 | 5♁27 | 7°34 | 7°57 | 29°18 | 1°24 | 17°45 | 6°44 | 28°12 | 29°16 | 26°40 | 27°56 | 8°45 | 28° 2 | M 4 | | | | | | | | |
| T 5 | 20 54 44 | 13° 1'44 | 19°56 | 8° 6 | 9° 8 | 29°57 | 1°38 | 17°41 | 6°42 | 28°14 | 29°16 | 26°36 | 27°53 | 8°52 | 28° 9 | T 5 | | | | | | | | |
| W 6 | 20 58 40 | 13°59'06 | 4♁30 | 8°33 | 10°19 | 0♁36 | 1°51 | 17°38 | 6°39 | 28°17 | 29°15 | 26°31 | 27°50 | 8°59 | 28°16 | W 6 | | | | | | | | |
| T 7 | 21 2 37 | 14°56'30 | 19° 4 | 8°56 | 11°30 | 1°16 | 2° 4 | 17°35 | 6°37 | 28°19 | 29°15 | 26°25 | 27°47 | 9° 6 | 28°23 | T 7 | | | | | | | | |
| F 8 | 21 6 33 | 15°53'54 | 3♁32 | 9°14 | 12°41 | 1°55 | 2°18 | 17°31 | 6°35 | 28°21 | 29°15 | 26°18 | 27°44 | 9°12 | 28°30 | F 8 | | | | | | | | |
| S 9 | 21 10 30 | 16°51'19 | 17°46 | 9°28 | 13°52 | 2°34 | 2°31 | 17°28 | 6°32 | 28°23 | 29°15 | 26°13 | 27°41 | 9°19 | 28°37 | S 9 | | | | | | | | |
| S 10 | 21 14 26 | 17°48'45 | 1♁41 | 9°37 | 15° 3 | 3°14 | 2°44 | 17°24 | 6°30 | 28°25 | 29°15 | 26° 9 | 27°37 | 9°26 | 28°44 | S 10 | | | | | | | | |
| M11 | 21 18 23 | 18°46'11 | 15°15 | 9°R40 | 16°14 | 3°53 | 2°57 | 17°20 | 6°28 | 28°28 | 29°14 | 26° 7 | 27°34 | 9°32 | 28°51 | M11 | | | | | | | | |
| T 12 | 21 22 20 | 19°43'38 | 28°26 | 9°39 | 17°26 | 4°32 | 3°10 | 17°17 | 6°25 | 28°30 | 29°14 | 26°D 6 | 27°31 | 9°39 | 28°59 | T 12 | | | | | | | | |
| W13 | 21 26 16 | 20°41'06 | 11♁14 | 9°33 | 18°37 | 5°11 | 3°24 | 17°13 | 6°23 | 28°32 | 29°14 | 26° 7 | 27°28 | 9°46 | 29° 6 | W13 | | | | | | | | |
| T 14 | 21 30 13 | 21°38'34 | 23°43 | 9°21 | 19°48 | 5°50 | 3°37 | 17° 9 | 6°21 | 28°34 | 29°13 | 26° 9 | 27°25 | 9°53 | 29°14 | T 14 | | | | | | | | |
| F 15 | 21 34 9 | 22°36'04 | 5♁56 | 9° 4 | 21° 0 | 6°29 | 3°50 | 17° 5 | 6°18 | 28°36 | 29°13 | 26°10 | 27°21 | 9°59 | 29°21 | F 15 | | | | | | | | |
| S 16 | 21 38 6 | 23°33'33 | 17°58 | 8°41 | 22°11 | 7° 8 | 4° 3 | 17° 1 | 6°16 | 28°39 | 29°13 | 26°R11 | 27°18 | 10° 6 | 29°29 | S 16 | | | | | | | | |
| S 17 | 21 42 2 | 24°31'04 | 29°52 | 8°14 | 23°23 | 7°47 | 4°16 | 16°57 | 6°14 | 28°41 | 29°12 | 26°11 | 27°15 | 10°13 | 29°36 | S 17 | | | | | | | | |
| M18 | 21 45 59 | 25°28'36 | 11♁45 | 7°42 | 24°35 | 8°26 | 4°29 | 16°53 | 6°12 | 28°43 | 29°12 | 26°10 | 27°12 | 10°19 | 29°44 | M18 | | | | | | | | |
| T 19 | 21 49 55 | 26°26'08 | 23°40 | 7° 6 | 25°46 | 9° 5 | 4°42 | 16°49 | 6° 9 | 28°45 | 29°12 | 26° 8 | 27° 9 | 10°26 | 29°51 | T 19 | | | | | | | | |
| W20 | 21 53 52 | 27°23'41 | 5♁42 | 6°25 | 26°58 | 9°44 | 4°55 | 16°45 | 6° 7 | 28°47 | 29°11 | 26° 4 | 27° 6 | 10°33 | 29°59 | W20 | | | | | | | | |
| T 21 | 21 57 49 | 28°21'15 | 17°55 | 5°41 | 28°10 | 10°23 | 5° 8 | 16°41 | 6° 5 | 28°50 | 29°11 | 26° 0 | 27° 2 | 10°40 | 0♁ 7 | T 21 | | | | | | | | |
| F 22 | 22 1 45 | 29°18'50 | 0♁20 | 4°54 | 29°22 | 11° 2 | 5°21 | 16°37 | 6° 3 | 28°52 | 29°10 | 25°55 | 26°59 | 10°46 | 0°15 | F 22 | | | | | | | | |
| S 23 | 22 5 42 | 0♁16'25 | 12°59 | 4° 6 | 0♁34 | 11°41 | 5°33 | 16°32 | 6° 1 | 28°54 | 29°10 | 25°51 | 26°56 | 10°53 | 0°23 | S 23 | | | | | | | | |
| S 24 | 22 9 38 | 1°14'02 | 25°54 | 3°16 | 1°46 | 12°20 | 5°46 | 16°28 | 5°59 | 28°56 | 29° 9 | 25°48 | 26°53 | 11° 0 | 0°30 | S 24 | | | | | | | | |
| M25 | 22 13 35 | 2°11'40 | 9♁ 5 | 2°25 | 2°58 | 12°58 | 5°59 | 16°24 | 5°57 | 28°59 | 29° 9 | 25°46 | 26°50 | 11° 7 | 0°38 | M25 | | | | | | | | |
| T 26 | 22 17 31 | 3° 9'19 | 22°29 | 1°36 | 4°10 | 13°37 | 6°12 | 16°19 | 5°55 | 29° 1 | 29° 8 | 25°D45 | 26°47 | 11°13 | 0°46 | T 26 | | | | | | | | |
| W27 | 22 21 28 | 4° 7'00 | 6° 6 | 0°48 | 5°22 | 14°16 | 6°24 | 16°15 | 5°52 | 29° 3 | 29° 8 | 25°45 | 26°43 | 11°20 | 0°54 | W27 | | | | | | | | |
| T 28 | 22 25 24 | 5° 4'42 | 19°54 | 0° 3 | 6°35 | 14°54 | 6°37 | 16°11 | 5°50 | 29° 5 | 29° 7 | 25°46 | 26°40 | 11°27 | 1° 2 | T 28 | | | | | | | | |
| F 29 | 22 29 21 | 6° 2'25 | 3♁52 | 29♁21 | 7°47 | 15°33 | 6°49 | 16° 6 | 5°48 | 29° 7 | 29° 6 | 25°48 | 26°37 | 11°33 | 1°10 | F 29 | | | | | | | | |
| S 30 | 22 33 17 | 7° 0'10 | 17°57 | 28°44 | 8°59 | 16°12 | 7° 2 | 16° 2 | 5°47 | 29°10 | 29° 6 | 25°49 | 26°34 | 11°40 | 1°18 | S 30 | | | | | | | | |
| S 31 | 22 37 14 | 7♁57'57 | 2♁ 7 | 28♁13 | 10♁12 | 16♁50 | 7♁14 | 15♁57 | 5♁45 | 29♁12 | 29°R 5 | 25°R50 | 26♁31 | 11♁47 | 1♁27 | S 31 | | | | | | | | |

Delta T = 19m09s

ASTRODIENST EPHEMERIS for the year 2583
geocentric

SEPTEMBER 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|------|------|---|---|---|---|---|---|---|-----|
| M 1 | 22 41 11 | 8♎55'46 | 16♏21 | 27°R47 | 11♏24 | 17♏29 | 7♏27 | 15°R53 | 5°R43 | 29♏14 | 29°R 4 | 25°R49 | 26♎27 | 11♎54 | 1♎35 | M 1 | | | | | | | | |
| T 2 | 22 45 7 | 9°53'36 | 0♎35 | 27♏28 | 12°37 | 18° 7 | 7°39 | 15♎48 | 5♎41 | 29°16 | 29°R 4 | 25♎49 | 26°24 | 12° 0 | 1°43 | T 2 | | | | | | | | |
| W 3 | 22 49 4 | 10°51'28 | 14°48 | 27°17 | 13°50 | 18°46 | 7°51 | 15°44 | 5°39 | 29°18 | 29° 3 | 25°47 | 26°21 | 12° 7 | 1°51 | W 3 | | | | | | | | |
| T 4 | 22 53 0 | 11°49'22 | 28°55 | 27°D13 | 15° 2 | 19°24 | 8° 4 | 15°39 | 5°37 | 29°21 | 29° 2 | 25°46 | 26°18 | 12°14 | 1°59 | T 4 | | | | | | | | |
| F 5 | 22 56 57 | 12°47'17 | 12♏54 | 27°16 | 16°15 | 20° 3 | 8°16 | 15°35 | 5°35 | 29°23 | 29° 2 | 25°44 | 26°15 | 12°20 | 2° 8 | F 5 | | | | | | | | |
| S 6 | 23 0 53 | 13°45'14 | 26°42 | 27°28 | 17°28 | 20°41 | 8°28 | 15°30 | 5°34 | 29°25 | 29° 1 | 25°42 | 26°12 | 12°27 | 2°16 | S 6 | | | | | | | | |
| S 7 | 23 4 50 | 14°43'12 | 10♎15 | 27°49 | 18°41 | 21°19 | 8°40 | 15°26 | 5°32 | 29°27 | 29° 0 | 25°41 | 26° 8 | 12°34 | 2°24 | S 7 | | | | | | | | |
| M 8 | 23 8 46 | 15°41'12 | 23°32 | 28°17 | 19°54 | 21°58 | 8°52 | 15°21 | 5°30 | 29°29 | 28°59 | 25°D41 | 26° 5 | 12°41 | 2°33 | M 8 | | | | | | | | |
| T 9 | 23 12 43 | 16°39'14 | 6♎31 | 28°53 | 21° 7 | 22°36 | 9° 4 | 15°17 | 5°29 | 29°31 | 28°59 | 25°41 | 26° 2 | 12°47 | 2°41 | T 9 | | | | | | | | |
| W10 | 23 16 40 | 17°37'16 | 19°12 | 29°37 | 22°20 | 23°14 | 9°16 | 15°12 | 5°27 | 29°34 | 28°58 | 25°42 | 25°59 | 12°54 | 2°49 | W10 | | | | | | | | |
| T 11 | 23 20 36 | 18°35'21 | 1♎38 | 0♎29 | 23°33 | 23°53 | 9°28 | 15° 7 | 5°26 | 29°36 | 28°57 | 25°42 | 25°56 | 13° 1 | 2°58 | T 11 | | | | | | | | |
| F 12 | 23 24 33 | 19°33'27 | 13°50 | 1°28 | 24°46 | 24°31 | 9°39 | 15° 3 | 5°24 | 29°38 | 28°56 | 25°43 | 25°53 | 13° 7 | 3° 6 | F 12 | | | | | | | | |
| S 13 | 23 28 29 | 20°31'34 | 25°52 | 2°34 | 25°59 | 25° 9 | 9°51 | 14°58 | 5°23 | 29°40 | 28°55 | 25°44 | 25°49 | 13°14 | 3°15 | S 13 | | | | | | | | |
| S 14 | 23 32 26 | 21°29'43 | 7♎47 | 3°46 | 27°12 | 25°47 | 10° 3 | 14°54 | 5°21 | 29°42 | 28°54 | 25°44 | 25°46 | 13°21 | 3°23 | S 14 | | | | | | | | |
| M15 | 23 36 22 | 22°27'53 | 19°40 | 5° 5 | 28°26 | 26°25 | 10°14 | 14°49 | 5°20 | 29°44 | 28°54 | 25°R44 | 25°43 | 13°28 | 3°32 | M15 | | | | | | | | |
| T 16 | 23 40 19 | 23°26'04 | 1♎35 | 6°29 | 29°39 | 27° 3 | 10°26 | 14°45 | 5°18 | 29°46 | 28°53 | 25°44 | 25°40 | 13°34 | 3°40 | T 16 | | | | | | | | |
| W17 | 23 44 15 | 24°24'17 | 13°37 | 7°58 | 0♎52 | 27°41 | 10°37 | 14°40 | 5°17 | 29°48 | 28°52 | 25°44 | 25°37 | 13°41 | 3°49 | W17 | | | | | | | | |
| T 18 | 23 48 12 | 25°22'32 | 25°51 | 9°32 | 2° 6 | 28°19 | 10°48 | 14°36 | 5°16 | 29°50 | 28°51 | 25°D44 | 25°33 | 13°48 | 3°57 | T 18 | | | | | | | | |
| F 19 | 23 52 9 | 26°20'48 | 8♎20 | 11° 9 | 3°19 | 28°57 | 11° 0 | 14°32 | 5°15 | 29°52 | 28°50 | 25°44 | 25°30 | 13°54 | 4° 6 | F 19 | | | | | | | | |
| S 20 | 23 56 5 | 27°19'05 | 21° 7 | 12°50 | 4°33 | 29°35 | 11°11 | 14°27 | 5°13 | 29°54 | 28°49 | 25°44 | 25°27 | 14° 1 | 4°14 | S 20 | | | | | | | | |
| S 21 | 0 0 2 | 28°17'24 | 4♎14 | 14°34 | 5°46 | 0♎13 | 11°22 | 14°23 | 5°12 | 29°56 | 28°48 | 25°44 | 25°24 | 14° 8 | 4°23 | S 21 | | | | | | | | |
| M22 | 0 3 58 | 29°15'45 | 17°41 | 16°20 | 7° 0 | 0°51 | 11°33 | 14°19 | 5°11 | 29°58 | 28°47 | 25°45 | 25°21 | 14°15 | 4°32 | M22 | | | | | | | | |
| T 23 | 0 7 55 | 0♎40'07 | 1°R28 | 18° 8 | 8°14 | 1°29 | 11°44 | 14°14 | 5°10 | 0♎0 | 28°46 | 25°R45 | 25°18 | 14°21 | 4°40 | T 23 | | | | | | | | |
| W24 | 0 11 51 | 1°12'31 | 15°31 | 19°58 | 9°27 | 2° 7 | 11°55 | 14°10 | 5° 9 | 0° 2 | 28°45 | 25°44 | 25°14 | 14°28 | 4°49 | W24 | | | | | | | | |
| T 25 | 0 15 48 | 2°10'57 | 29°48 | 21°49 | 10°41 | 2°45 | 12° 5 | 14° 6 | 5° 8 | 0° 4 | 28°44 | 25°44 | 25°11 | 14°35 | 4°57 | T 25 | | | | | | | | |
| F 26 | 0 19 44 | 3° 9'25 | 14♎12 | 23°40 | 11°55 | 3°22 | 12°16 | 14° 2 | 5° 7 | 0° 6 | 28°43 | 25°43 | 25° 8 | 14°42 | 5° 6 | F 26 | | | | | | | | |
| S 27 | 0 23 41 | 4° 7'56 | 28°39 | 25°32 | 13° 9 | 4° 0 | 12°27 | 13°57 | 5° 6 | 0° 8 | 28°42 | 25°42 | 25° 5 | 14°48 | 5°15 | S 27 | | | | | | | | |
| S 28 | 0 27 38 | 5° 6'28 | 13♏5 | 27°25 | 14°22 | 4°38 | 12°37 | 13°53 | 5° 5 | 0°10 | 28°41 | 25°41 | 25° 2 | 14°55 | 5°23 | S 28 | | | | | | | | |
| M29 | 0 31 34 | 6° 5'03 | 27°24 | 29°17 | 15°36 | 5°16 | 12°47 | 13°49 | 5° 5 | 0°12 | 28°40 | 25°41 | 24°58 | 15° 2 | 5°32 | M29 | | | | | | | | |
| T 30 | 0 35 31 | 7♎3'39 | 11♎34 | 1♎9 | 16♎50 | 5♎53 | 12♎58 | 13♎45 | 5♎4 | 0♎14 | 28°R39 | 25°D41 | 24♎55 | 15♎8 | 5♎40 | T 30 | | | | | | | | |

Delta T = 19m09s

OCTOBER 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|------|--------|--------|-------|-------|------|------|---|---|---|---|---|---|---|-----|
| W 1 | 0 39 27 | 8♎2'19 | 25♎33 | 3♎1 | 18♎4 | 6♎31 | 13♎8 | 13°R41 | 5°R 3 | 0♎16 | 28°R38 | 25♎41 | 24♎52 | 15♎15 | 5♎49 | W 1 | | | | | | | | |
| T 2 | 0 43 24 | 9° 1'00 | 9♏20 | 4°52 | 19°18 | 7° 9 | 13°18 | 13♎37 | 5♎3 | 0°18 | 28°R37 | 25°42 | 24°49 | 15°22 | 5°58 | T 2 | | | | | | | | |
| F 3 | 0 47 20 | 9°59'43 | 22°54 | 6°43 | 20°33 | 7°46 | 13°28 | 13°34 | 5° 2 | 0°19 | 28°R36 | 25°43 | 24°46 | 15°29 | 6° 6 | F 3 | | | | | | | | |
| S 4 | 0 51 17 | 10°58'28 | 6♎15 | 8°33 | 21°47 | 8°24 | 13°38 | 13°30 | 5° 1 | 0°21 | 28°R35 | 25°44 | 24°43 | 15°35 | 6°15 | S 4 | | | | | | | | |
| S 5 | 0 55 13 | 11°57'16 | 19°23 | 10°22 | 23° 1 | 9° 1 | 13°48 | 13°26 | 5° 1 | 0°23 | 28°R33 | 25°R45 | 24°39 | 15°42 | 6°24 | S 5 | | | | | | | | |
| M 6 | 0 59 10 | 12°56'05 | 2♎18 | 12°11 | 24°15 | 9°39 | 13°57 | 13°22 | 5° 0 | 0°25 | 28°R32 | 25°45 | 24°36 | 15°49 | 6°32 | M 6 | | | | | | | | |
| T 7 | 1 3 7 | 13°54'57 | 15° 0 | 13°59 | 25°29 | 10°16 | 14° 7 | 13°19 | 5° 0 | 0°26 | 28°R31 | 25°44 | 24°33 | 15°55 | 6°41 | T 7 | | | | | | | | |
| W 8 | 1 7 3 | 14°53'50 | 27°29 | 15°46 | 26°44 | 10°54 | 14°16 | 13°15 | 5° 0 | 0°28 | 28°R30 | 25°42 | 24°30 | 16° 2 | 6°49 | W 8 | | | | | | | | |
| T 9 | 1 11 0 | 15°52'46 | 9♎47 | 17°32 | 27°58 | 11°31 | 14°26 | 13°12 | 4°59 | 0°30 | 28°R29 | 25°39 | 24°27 | 16° 9 | 6°58 | T 9 | | | | | | | | |
| F 10 | 1 14 56 | 16°51'43 | 21°55 | 19°17 | 29°12 | 12° 9 | 14°35 | 13° 8 | 4°59 | 0°31 | 28°R28 | 25°36 | 24°24 | 16°16 | 7° 6 | F 10 | | | | | | | | |
| S 11 | 1 18 53 | 17°50'42 | 3♎54 | 21° 1 | 0♎27 | 12°46 | 14°44 | 13° 5 | 4°59 | 0°33 | 28°R27 | 25°32 | 24°20 | 16°22 | 7°15 | S 11 | | | | | | | | |
| S 12 | 1 22 49 | 18°49'44 | 15°48 | 22°45 | 1°41 | 13°23 | 14°53 | 13° 2 | 4°59 | 0°35 | 28°R26 | 25°29 | 24°17 | 16°29 | 7°24 | S 12 | | | | | | | | |
| M13 | 1 26 46 | 19°48'46 | 27°39 | 24°27 | 2°56 | 14° 1 | 15° 2 | 12°59 | 4°59 | 0°36 | 28°R25 | 25°26 | 24°14 | 16°36 | 7°32 | M13 | | | | | | | | |
| T 14 | 1 30 42 | 20°47'51 | 9♎33 | 26° 9 | 4°10 | 14°38 | 15°11 | 12°56 | 4°D59 | 0°38 | 28°R23 | 25°24 | 24°11 | 16°43 | 7°41 | T 14 | | | | | | | | |
| W15 | 1 34 39 | 21°46'57 | 21°33 | 27°50 | 5°25 | 15°15 | 15°20 | 12°53 | 4°59 | 0°39 | 28°R22 | 25°D24 | 24° 8 | 16°49 | 7°49 | W15 | | | | | | | | |
| T 16 | 1 38 36 | 22°46'05 | 3♎43 | 29°30 | 6°39 | 15°52 | 15°28 | 12°50 | 4°59 | 0°41 | 28°R21 | 25°24 | 24° 4 | 16°56 | 7°58 | T 16 | | | | | | | | |
| F 17 | 1 42 32 | 23°45'15 | 16°10 | 1♎9 | 7°54 | 16°30 | 15°37 | 12°47 | 4°59 | 0°42 | 28°R20 | 25°26 | 24° 1 | 17° 3 | 8° 6 | F 17 | | | | | | | | |
| S 18 | 1 46 29 | 24°44'27 | 28°56 | 2°48 | 9° 8 | 17° 7 | 15°45 | 12°44 | 4°59 | 0°44 | 28°R19 | 25°27 | 23°58 | 17° 9 | 8°14 | S 18 | | | | | | | | |
| S 19 | 1 50 25 | 25°43'40 | 12♎6 | 4°26 | 10°23 | 17°44 | 15°53 | 12°41 | 4°59 | 0°45 | 28°R18 | 25°29 | 23°55 | 17°16 | 8°23 | S 19 | | | | | | | | |
| M20 | 1 54 22 | 26°42'55 | 25°42 | 6° 3 | 11°38 | 18°21 | 16° 1 | 12°39 | 4°59 | 0°47 | 28°R17 | 25°R29 | 23°52 | 17°23 | 8°31 | M20 | | | | | | | | |
| T 21 | 1 58 18 | 27°42'12 | 9°R42 | 7°39 | 12°52 | 18°58 | 16° 9 | 12°36 | 5° 0 | 0°48 | 28°R15 | 25°29 | 23°49 | 17°30 | 8°40 | T 21 | | | | | | | | |
| W22 | 2 2 15 | 28°41'30 | 24° 6 | 9°14 | 14° 7 | 19°35 | 16°17 | 12°34 | 5° 0 | 0°50 | 28°R14 | 25°26 | 23°45 | 17°36 | 8°48 | W22 | | | | | | | | |
| T 23 | 2 6 11 | 29°40'51 | 8♎48 | 10°49 | 15°22 | 20°12 | 16°24 | 12°31 | 5° 0 | 0°51 | 28°R13 | 25°22 | 23°42 | 17°43 | 8°56 | T 23 | | | | | | | | |
| F 24 | 2 10 8 | 0♎40'14 | 23°41 | 12°23 | 16°37 | 20°49 | 16°32 | 12°29 | 5° 1 | 0°52 | 28°R12 | 25°17 | 23°39 | 17°50 | 9° 5 | F 24 | | | | | | | | |
| S 25 | 2 14 4 | 1°39'39 | 8♏35 | 13°57 | 17°51 | 21°26 | 16°39 | 12°27 | 5° 1 | 0°54 | 28°R11 | 25°12 | 23°36 | 17°56 | 9°13 | S 25 | | | | | | | | |
| S 26 | 2 18 1 | 2°39'06 | 23°24 | 15°30 | 19° 6 | 22° 3 | 16°46 | 12°25 | 5° 2 | 0°55 | 28°R10 | 25° 7 | 23°33 | 18° 3 | 9°21 | S 26 | | | | | | | | |
| M27 | 2 21 58 | 3°38'36 | 7♎59 | 17° 2 | 20°21 | 22°40 | 16°53 | 12°23 | 5° 3 | 0°56 | 28°R 9 | 25° 3 | 23°30 | 18°10 | 9°29 | M27 | | | | | | | | |
| T 28 | 2 25 54 | 4°38'08 | 22°17 | 18°33 | 21°36 | 23°16 | 17° 0 | 12°21 | 5° 3 | 0°57 | 28°R 7 | 25° 1 | 23°26 | 18°17 | 9°37 | T 28 | | | | | | | | |
| W29 | 2 29 51 | 5°37'42 | 6♎14 | 20° 4 | 22°51 | 23°53 | 17° 7 | 12°19 | 5° 4 | 0°58 | 28°R 6 | 25°D 0 | 23°23 | 18°23 | 9°46 | W29 | | | | | | | | |
| T 30 | 2 33 47 | 6°37'18 | 19°52 | 21°35 | 24° 6 | 24°30 | 17°14 | 12°17 | 5° 5 | 1° 0 | 28°R 5 | 25° 0 | 23°20 | 18°30 | 9°54 | T 30 | | | | | | | | |
| F 31 | 2 37 44 | 7♎36'57 | 3♎10 | 23♎4 | 25♎21 | 25♎7 | 17♎20 | 12♎16 | 5♎6 | 1♎1 | 28°R 4 | 25♎2 | 23♎17 | 18♎37 | 10♎2 | F 31 | | | | | | | | |

Delta T = 19m09s

ASTRODIENST EPHEMERIS for the year 2583
geocentric

NOVEMBER 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|------|------|--------|--------|-------|-------|-------|------|
| S 1 | 2 41 40 | 8♈36°37 | 16♏12 | 24♈33 | 26♁36 | 25♏43 | 17♁27 | 12°R14 | 5♁6 | 1♏2 | 28°R3 | 25♁3 | 23♁14 | 18♁44 | 10♁10 | S 1 |
| S 2 | 2 45 37 | 9°36'20 | 28°59 | 26° 2 | 27°51 | 26°20 | 17°33 | 12♁13 | 5° 7 | 1° 3 | 28°Y 2 | 25°R 3 | 23°10 | 18°50 | 10°18 | S 2 |
| M 3 | 2 49 34 | 10°36'05 | 11♁34 | 27°30 | 29° 6 | 26°57 | 17°39 | 12°11 | 5° 8 | 1° 4 | 28° 1 | 25° 2 | 23° 7 | 18°57 | 10°26 | M 3 |
| T 4 | 2 53 30 | 11°35'52 | 23°58 | 28°57 | 0♈21 | 27°33 | 17°45 | 12°10 | 5° 9 | 1° 5 | 27°59 | 24°58 | 23° 4 | 19° 4 | 10°34 | T 4 |
| W 5 | 2 57 27 | 12°35'42 | 6♈13 | 0♁23 | 1°36 | 28°10 | 17°50 | 12° 9 | 5°10 | 1° 6 | 27°58 | 24°52 | 23° 1 | 19°10 | 10°42 | W 5 |
| T 6 | 3 1 23 | 13°35'33 | 18°21 | 1°49 | 2°51 | 28°47 | 17°56 | 12° 8 | 5°12 | 1° 7 | 27°57 | 24°44 | 22°58 | 19°17 | 10°49 | T 6 |
| F 7 | 3 5 20 | 14°35'26 | 0♁22 | 3°14 | 4° 6 | 29°23 | 18° 1 | 12° 7 | 5°13 | 1° 8 | 27°56 | 24°34 | 22°55 | 19°24 | 10°57 | F 7 |
| S 8 | 3 9 16 | 15°35'21 | 12°18 | 4°39 | 5°21 | 29°59 | 18° 7 | 12° 6 | 5°14 | 1° 9 | 27°55 | 24°24 | 22°51 | 19°31 | 11° 5 | S 8 |
| S 9 | 3 13 13 | 16°35'18 | 24°10 | 6° 2 | 6°36 | 0♁36 | 18°12 | 12° 5 | 5°15 | 1° 9 | 27°54 | 24°14 | 22°48 | 19°37 | 11°13 | S 9 |
| M10 | 3 17 9 | 17°35'16 | 6♁0 | 7°25 | 7°52 | 1°12 | 18°16 | 12° 5 | 5°17 | 1°10 | 27°53 | 24° 6 | 22°45 | 19°44 | 11°20 | M10 |
| T 11 | 3 21 6 | 18°35'16 | 17°53 | 8°47 | 9° 7 | 1°49 | 18°21 | 12° 4 | 5°18 | 1°11 | 27°52 | 23°59 | 22°42 | 19°51 | 11°28 | T 11 |
| W12 | 3 25 3 | 19°35'18 | 29°50 | 10° 7 | 10°22 | 2°25 | 18°26 | 12° 4 | 5°19 | 1°12 | 27°51 | 23°54 | 22°39 | 19°57 | 11°36 | W12 |
| T 13 | 3 28 59 | 20°35'21 | 11♁57 | 11°27 | 11°37 | 3° 1 | 18°30 | 12° 3 | 5°21 | 1°13 | 27°50 | 23°52 | 22°36 | 20° 4 | 11°43 | T 13 |
| F 14 | 3 32 56 | 21°35'26 | 24°18 | 12°46 | 12°52 | 3°38 | 18°34 | 12° 3 | 5°22 | 1°13 | 27°49 | 23°D52 | 22°32 | 20°11 | 11°51 | F 14 |
| S 15 | 3 36 52 | 22°35'32 | 6♁58 | 14° 3 | 14° 8 | 4°14 | 18°38 | 12° 3 | 5°24 | 1°14 | 27°48 | 23°52 | 22°29 | 20°18 | 11°58 | S 15 |
| S 16 | 3 40 49 | 23°35'40 | 20° 3 | 15°19 | 15°23 | 4°50 | 18°42 | 12°D 3 | 5°25 | 1°14 | 27°47 | 23°R53 | 22°26 | 20°24 | 12° 5 | S 16 |
| M17 | 3 44 45 | 24°35'49 | 3°Y34 | 16°33 | 16°38 | 5°26 | 18°46 | 12° 3 | 5°27 | 1°15 | 27°46 | 23°53 | 22°23 | 20°31 | 12°13 | M17 |
| T 18 | 3 48 42 | 25°36'00 | 17°36 | 17°46 | 17°53 | 6° 2 | 18°49 | 12° 3 | 5°29 | 1°16 | 27°45 | 23°50 | 22°20 | 20°38 | 12°20 | T 18 |
| W19 | 3 52 38 | 26°36'12 | 2♁5 | 18°56 | 19° 8 | 6°38 | 18°53 | 12° 4 | 5°30 | 1°16 | 27°44 | 23°45 | 22°16 | 20°45 | 12°27 | W19 |
| T 20 | 3 56 35 | 27°36'26 | 16°59 | 20° 5 | 20°24 | 7°14 | 18°56 | 12° 4 | 5°32 | 1°17 | 27°43 | 23°38 | 22°13 | 20°51 | 12°34 | T 20 |
| F 21 | 4 0 32 | 28°36'42 | 2II10 | 21°11 | 21°39 | 7°50 | 18°59 | 12° 5 | 5°34 | 1°17 | 27°42 | 23°29 | 22°10 | 20°58 | 12°41 | F 21 |
| S 22 | 4 4 28 | 29°36'59 | 17°27 | 22°14 | 22°54 | 8°26 | 19° 1 | 12° 5 | 5°36 | 1°17 | 27°41 | 23°19 | 22° 7 | 21° 5 | 12°48 | S 22 |
| S 23 | 4 8 25 | 0♁37'19 | 2♁38 | 23°14 | 24°10 | 9° 2 | 19° 4 | 12° 6 | 5°38 | 1°18 | 27°40 | 23° 9 | 22° 4 | 21°11 | 12°55 | S 23 |
| M24 | 4 12 21 | 1°37'40 | 17°34 | 24°11 | 25°25 | 9°38 | 19° 6 | 12° 7 | 5°40 | 1°18 | 27°39 | 23° 1 | 22° 1 | 21°18 | 13° 2 | M24 |
| T 25 | 4 16 18 | 2°38'03 | 2♁8 | 25° 4 | 26°40 | 10°14 | 19° 9 | 12° 8 | 5°42 | 1°19 | 27°38 | 22°55 | 21°57 | 21°25 | 13° 9 | T 25 |
| W26 | 4 20 14 | 3°38'27 | 16°15 | 25°53 | 27°56 | 10°49 | 19°11 | 12° 9 | 5°44 | 1°19 | 27°37 | 22°51 | 21°54 | 21°32 | 13°16 | W26 |
| T 27 | 4 24 11 | 4°38'54 | 29°55 | 26°36 | 29°11 | 11°25 | 19°12 | 12°10 | 5°46 | 1°19 | 27°36 | 22°D50 | 21°51 | 21°38 | 13°22 | T 27 |
| F 28 | 4 28 7 | 5°39'22 | 13♏10 | 27°14 | 0♁26 | 12° 1 | 19°14 | 12°11 | 5°48 | 1°19 | 27°35 | 22°50 | 21°48 | 21°45 | 13°29 | F 28 |
| S 29 | 4 32 4 | 6°39'52 | 26° 4 | 27°45 | 1°42 | 12°36 | 19°15 | 12°12 | 5°50 | 1°19 | 27°34 | 22°R50 | 21°45 | 21°52 | 13°35 | S 29 |
| S 30 | 4 36 1 | 7♁40'24 | 8♁39 | 28♁10 | 2♁57 | 13♁12 | 19♁17 | 12♁14 | 5♁53 | 1♏20 | 27°Y34 | 22♁49 | 21♁42 | 21♁59 | 13♁42 | S 30 |

Delta T = 19m10s

DECEMBER 2583

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|-------|--------|-------|------|-------|--------|--------|-------|-------|-------|------|
| M 1 | 4 39 57 | 8♁40'58 | 21♁1 | 28♁27 | 4♁12 | 13♁48 | 19♁18 | 12♁15 | 5♁55 | 1♏20 | 27°R33 | 22°R46 | 21♁38 | 22♁5 | 13♁48 | M 1 |
| T 2 | 4 43 54 | 9°41'33 | 3♈12 | 28°R35 | 5°28 | 14°23 | 19°19 | 12°17 | 5°57 | 1°20 | 27°Y32 | 22♁40 | 21°35 | 22°12 | 13°54 | T 2 |
| W 3 | 4 47 50 | 10°42'10 | 15°16 | 28°34 | 6°43 | 14°58 | 19°19 | 12°19 | 5°59 | 1°20 | 27°31 | 22°31 | 21°32 | 22°19 | 14° 1 | W 3 |
| T 4 | 4 51 47 | 11°42'48 | 27°15 | 28°24 | 7°59 | 15°34 | 19°20 | 12°21 | 6° 2 | 1°R20 | 27°30 | 22°19 | 21°29 | 22°25 | 14° 7 | T 4 |
| F 5 | 4 55 43 | 12°43'28 | 9♁10 | 28° 2 | 9°14 | 16° 9 | 19°20 | 12°23 | 6° 4 | 1°20 | 27°30 | 22° 5 | 21°26 | 22°32 | 14°13 | F 5 |
| S 6 | 4 59 40 | 13°44'10 | 21° 3 | 27°30 | 10°30 | 16°45 | 19°R20 | 12°25 | 6° 7 | 1°20 | 27°29 | 21°50 | 21°22 | 22°39 | 14°19 | S 6 |
| S 7 | 5 3 36 | 14°44'52 | 2♁54 | 26°47 | 11°45 | 17°20 | 19°20 | 12°27 | 6° 9 | 1°20 | 27°28 | 21°35 | 21°19 | 22°46 | 14°25 | S 7 |
| M 8 | 5 7 33 | 15°45'36 | 14°47 | 25°54 | 13° 0 | 17°55 | 19°19 | 12°29 | 6°12 | 1°19 | 27°27 | 21°22 | 21°16 | 22°52 | 14°31 | M 8 |
| T 9 | 5 11 30 | 16°46'21 | 26°41 | 24°50 | 14°16 | 18°30 | 19°19 | 12°31 | 6°14 | 1°19 | 27°27 | 21°11 | 21°13 | 22°59 | 14°36 | T 9 |
| W10 | 5 15 26 | 17°47'07 | 8♁40 | 23°39 | 15°31 | 19° 5 | 19°18 | 12°34 | 6°17 | 1°19 | 27°26 | 21° 3 | 21°10 | 23° 6 | 14°42 | W10 |
| T 11 | 5 19 23 | 18°47'54 | 20°47 | 22°21 | 16°47 | 19°40 | 19°17 | 12°36 | 6°19 | 1°19 | 27°25 | 20°58 | 21° 7 | 23°13 | 14°48 | T 11 |
| F 12 | 5 23 19 | 19°48'42 | 3♁6 | 21° 0 | 18° 2 | 20°15 | 19°16 | 12°39 | 6°22 | 1°19 | 27°25 | 20°55 | 21° 3 | 23°19 | 14°53 | F 12 |
| S 13 | 5 27 16 | 20°49'31 | 15°41 | 19°37 | 19°18 | 20°50 | 19°15 | 12°42 | 6°25 | 1°18 | 27°24 | 20°55 | 21° 0 | 23°26 | 14°59 | S 13 |
| S 14 | 5 31 12 | 21°50'20 | 28°38 | 18°16 | 20°33 | 21°25 | 19°13 | 12°45 | 6°28 | 1°18 | 27°23 | 20°55 | 20°57 | 23°33 | 15° 4 | S 14 |
| M15 | 5 35 9 | 22°51'11 | 12°Y 0 | 16°59 | 21°49 | 22° 0 | 19°11 | 12°48 | 6°30 | 1°18 | 27°23 | 20°54 | 20°54 | 23°39 | 15° 9 | M15 |
| T 16 | 5 39 5 | 23°52'02 | 25°51 | 15°48 | 23° 4 | 22°34 | 19° 9 | 12°51 | 6°33 | 1°17 | 27°22 | 20°51 | 20°51 | 23°46 | 15°14 | T 16 |
| W17 | 5 43 2 | 24°52'54 | 10♁11 | 14°47 | 24°19 | 23° 9 | 19° 7 | 12°54 | 6°36 | 1°17 | 27°22 | 20°46 | 20°48 | 23°53 | 15°19 | W17 |
| T 18 | 5 46 59 | 25°53'46 | 25° 0 | 13°55 | 25°35 | 23°44 | 19° 5 | 12°57 | 6°39 | 1°16 | 27°21 | 20°38 | 20°44 | 24° 0 | 15°24 | T 18 |
| F 19 | 5 50 55 | 26°54'40 | 10II 9 | 13°15 | 26°50 | 24°18 | 19° 2 | 13° 0 | 6°42 | 1°16 | 27°21 | 20°27 | 20°41 | 24° 6 | 15°29 | F 19 |
| S 20 | 5 54 52 | 27°55'34 | 25°31 | 12°45 | 28° 6 | 24°53 | 19° 0 | 13° 4 | 6°45 | 1°15 | 27°20 | 20°16 | 20°38 | 24°13 | 15°34 | S 20 |
| S 21 | 5 58 48 | 28°56'30 | 10♁52 | 12°27 | 29°21 | 25°27 | 18°57 | 13° 7 | 6°48 | 1°15 | 27°20 | 20° 5 | 20°35 | 24°20 | 15°39 | S 21 |
| M22 | 6 2 45 | 29°57'26 | 26° 2 | 12°D20 | 0♁37 | 26° 2 | 18°54 | 13°11 | 6°51 | 1°14 | 27°19 | 19°55 | 20°32 | 24°26 | 15°43 | M22 |
| T 23 | 6 6 41 | 0♁58'23 | 10♁51 | 12°23 | 1°52 | 26°36 | 18°51 | 13°14 | 6°54 | 1°13 | 27°19 | 19°47 | 20°28 | 24°33 | 15°48 | T 23 |
| W24 | 6 10 38 | 1°59'21 | 25°12 | 12°36 | 3° 8 | 27°10 | 18°47 | 13°18 | 6°57 | 1°13 | 27°18 | 19°43 | 20°25 | 24°40 | 15°52 | W24 |
| T 25 | 6 14 35 | 3° 0'20 | 9♏3 | 12°57 | 4°23 | 27°44 | 18°43 | 13°22 | 7° 0 | 1°12 | 27°18 | 19°41 | 20°22 | 24°47 | 15°56 | T 25 |
| F 26 | 6 18 31 | 4° 1'20 | 22°25 | 13°27 | 5°39 | 28°18 | 18°40 | 13°26 | 7° 3 | 1°11 | 27°18 | 19°D41 | 20°19 | 24°53 | 16° 1 | F 26 |
| S 27 | 6 22 28 | 5° 2'21 | 5♁21 | 14° 3 | 6°54 | 28°52 | 18°36 | 13°30 | 7° 6 | 1°11 | 27°17 | 19°R41 | 20°16 | 25° 0 | 16° 5 | S 27 |
| S 28 | 6 26 24 | 6° 3'23 | 17°56 | 14°46 | 8°10 | 29°26 | 18°31 | 13°34 | 7° 9 | 1°10 | 27°17 | 19°40 | 20°13 | 25° 7 | 16° 9 | S 28 |
| M29 | 6 30 21 | 7° 4'26 | 0♈14 | 15°34 | 9°25 | 0♈0 | 18°27 | 13°38 | 7°12 | 1° 9 | 27°17 | 19°38 | 20° 9 | 25°14 | 16°13 | M29 |
| T 30 | 6 34 17 | 8° 5'30 | 12°20 | 16°27 | 10°41 | 0°34 | 18°22 | 13°42 | 7°15 | 1° 8 | 27°16 | 19°33 | 20° 6 | 25°20 | 16°16 | T 30 |
| W31 | 6 38 14 | 9♁6'34 | 24♈17 | 17♁25 | 11♁56 | 1♈8 | 18♁18 | 13♁47 | 7♁19 | 1♏7 | 27°Y16 | 19♁25 | 20♁3 | 25♁27 | 16♁20 | W31 |

Delta T = 19m10s

ASTRODIENST EPHEMERIS for the year 2584
geocentric

JANUARY 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|------|-------|--------|--------|--------|--------|--------|------|
| T 1 | 6 42 10 | 10♌740 | 6♌11 | 18♌26 | 13♌12 | 1♌42 | 18°R13 | 13♌51 | 7♌22 | 1°R 6 | 27°R16 | 19°R14 | 20♌0 | 25♌34 | 16♌23 | T 1 |
| F 2 | 6 46 7 | 11° 8'46 | 18° 2 | 19°31 | 14°27 | 2°15 | 18♌8 | 13°56 | 7°25 | 1♌5 | 27°16 | 19°2 | 19°57 | 25°40 | 16°27 | F 2 |
| S 3 | 6 50 4 | 12° 9'52 | 29°54 | 20°39 | 15°43 | 2°49 | 18° 3 | 14° 0 | 7°28 | 1° 5 | 27°16 | 18°48 | 19°54 | 25°47 | 16°30 | S 3 |
| S 4 | 6 54 0 | 13°10'59 | 11♌48 | 21°49 | 16°58 | 3°22 | 17°57 | 14° 5 | 7°32 | 1° 4 | 27°15 | 18°35 | 19°50 | 25°54 | 16°34 | S 4 |
| M 5 | 6 57 57 | 14°12'06 | 23°45 | 23° 2 | 18°14 | 3°56 | 17°52 | 14°10 | 7°35 | 1° 3 | 27°15 | 18°23 | 19°47 | 26° 1 | 16°37 | M 5 |
| T 6 | 7 1 53 | 15°13'14 | 5♌46 | 24°17 | 19°29 | 4°29 | 17°46 | 14°15 | 7°38 | 1° 2 | 27°15 | 18°13 | 19°44 | 26° 7 | 16°40 | T 6 |
| W 7 | 7 5 50 | 16°14'21 | 17°53 | 25°33 | 20°45 | 5° 2 | 17°40 | 14°19 | 7°42 | 1° 0 | 27°15 | 18° 5 | 19°41 | 26°14 | 16°43 | W 7 |
| T 8 | 7 9 46 | 17°15'29 | 0♌8 | 26°51 | 22° 0 | 5°35 | 17°34 | 14°24 | 7°45 | 0°59 | 27°15 | 18° 1 | 19°38 | 26°21 | 16°45 | T 8 |
| F 9 | 7 13 43 | 18°16'37 | 12°33 | 28°11 | 23°15 | 6° 8 | 17°28 | 14°29 | 7°48 | 0°58 | 27°15 | 17°D59 | 19°34 | 26°28 | 16°48 | F 9 |
| S 10 | 7 17 39 | 19°17'44 | 25°12 | 29°31 | 24°31 | 6°41 | 17°22 | 14°35 | 7°52 | 0°57 | 27°15 | 17°59 | 19°31 | 26°34 | 16°50 | S 10 |
| S 11 | 7 21 36 | 20°18'52 | 8♌8 | 0♌53 | 25°46 | 7°14 | 17°15 | 14°40 | 7°55 | 0°56 | 27°D15 | 18° 0 | 19°28 | 26°41 | 16°53 | S 11 |
| M12 | 7 25 33 | 21°19'59 | 21°24 | 2°16 | 27° 2 | 7°46 | 17° 9 | 14°45 | 7°59 | 0°55 | 27°15 | 18°R 1 | 19°25 | 26°48 | 16°55 | M12 |
| T 13 | 7 29 29 | 22°21'06 | 5♌5 | 3°40 | 28°17 | 8°19 | 17° 2 | 14°50 | 8° 2 | 0°53 | 27°15 | 18° 0 | 19°22 | 26°54 | 16°57 | T 13 |
| W14 | 7 33 26 | 23°22'13 | 19°10 | 5° 5 | 29°33 | 8°52 | 16°56 | 14°56 | 8° 5 | 0°52 | 27°15 | 17°57 | 19°19 | 27° 1 | 17° 0 | W14 |
| T 15 | 7 37 22 | 24°23'20 | 3♌41 | 6°30 | 0♌48 | 9°24 | 16°49 | 15° 1 | 8° 9 | 0°51 | 27°15 | 17°52 | 19°15 | 27° 8 | 17° 1 | T 15 |
| F 16 | 7 41 19 | 25°24'26 | 18°32 | 7°57 | 2° 4 | 9°56 | 16°42 | 15° 7 | 8°12 | 0°50 | 27°15 | 17°45 | 19°12 | 27°15 | 17° 3 | F 16 |
| S 17 | 7 45 15 | 26°25'33 | 3♌38 | 9°24 | 3°19 | 10°29 | 16°35 | 15°12 | 8°16 | 0°48 | 27°15 | 17°37 | 19° 9 | 27°21 | 17° 5 | S 17 |
| S 18 | 7 49 12 | 27°26'39 | 18°50 | 10°51 | 4°34 | 11° 1 | 16°27 | 15°18 | 8°19 | 0°47 | 27°15 | 17°29 | 19° 6 | 27°28 | 17° 7 | S 18 |
| M19 | 7 53 9 | 28°27'44 | 3♌25 | 12°19 | 5°50 | 11°33 | 16°20 | 15°24 | 8°23 | 0°46 | 27°16 | 17°22 | 19° 3 | 27°35 | 17° 8 | M19 |
| T 20 | 7 57 5 | 29°28'50 | 18°46 | 13°48 | 7° 5 | 12° 5 | 16°13 | 15°29 | 8°26 | 0°44 | 27°16 | 17°16 | 19° 0 | 27°41 | 17°10 | T 20 |
| W21 | 8 1 2 | 0♌29'55 | 3♌13 | 15°17 | 8°21 | 12°36 | 16° 5 | 15°35 | 8°30 | 0°43 | 27°16 | 17°13 | 18°56 | 27°48 | 17°11 | W21 |
| T 22 | 8 4 58 | 1°31'00 | 17°13 | 16°47 | 9°36 | 13° 8 | 15°58 | 15°41 | 8°33 | 0°42 | 27°16 | 17°D12 | 18°53 | 27°55 | 17°12 | T 22 |
| F 23 | 8 8 55 | 2°32'05 | 0♌45 | 18°18 | 10°51 | 13°40 | 15°50 | 15°47 | 8°37 | 0°40 | 27°17 | 17°13 | 18°50 | 28° 2 | 17°13 | F 23 |
| S 24 | 8 12 51 | 3°33'10 | 13°49 | 19°49 | 12° 7 | 14°11 | 15°43 | 15°53 | 8°40 | 0°39 | 27°17 | 17°15 | 18°47 | 28° 8 | 17°14 | S 24 |
| S 25 | 8 16 48 | 4°34'14 | 26°30 | 21°20 | 13°22 | 14°43 | 15°35 | 15°59 | 8°44 | 0°37 | 27°17 | 17°16 | 18°44 | 28°15 | 17°15 | S 25 |
| M26 | 8 20 44 | 5°35'19 | 8♌51 | 22°52 | 14°38 | 15°14 | 15°27 | 16° 5 | 8°47 | 0°36 | 27°17 | 17°R16 | 18°40 | 28°22 | 17°15 | M26 |
| T 27 | 8 24 41 | 6°36'24 | 20°58 | 24°25 | 15°53 | 15°45 | 15°19 | 16°11 | 8°51 | 0°34 | 27°18 | 17°15 | 18°37 | 28°29 | 17°16 | T 27 |
| W28 | 8 28 38 | 7°37'28 | 2♌56 | 25°58 | 17° 8 | 16°16 | 15°11 | 16°18 | 8°54 | 0°33 | 27°18 | 17°12 | 18°34 | 28°35 | 17°16 | W28 |
| T 29 | 8 32 34 | 8°38'32 | 14°48 | 27°31 | 18°24 | 16°47 | 15° 3 | 16°24 | 8°58 | 0°31 | 27°19 | 17° 7 | 18°31 | 28°42 | 17°17 | T 29 |
| F 30 | 8 36 31 | 9°39'36 | 26°39 | 29° 6 | 19°39 | 17°17 | 14°55 | 16°30 | 9° 2 | 0°30 | 27°19 | 17° 0 | 18°28 | 28°49 | 17°17 | F 30 |
| S 31 | 8 40 27 | 10°40'39 | 8♌31 | 0♌40 | 20°54 | 17°48 | 14°47 | 16°36 | 9° 5 | 0♌28 | 27°19 | 16°H53 | 18°H25 | 28°H55 | 17°R17 | S 31 |

Delta T = 19m10s

FEBRUARY 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| S 1 | 8 44 24 | 11°41'42 | 20♌28 | 2♌16 | 22°10 | 18°19 | 14°R39 | 16°H43 | 9° 9 | 0°R27 | 27°19 | 16°R46 | 18°H21 | 29°H 2 | 17°R17 | S 1 |
| M 2 | 8 48 20 | 12°42'44 | 2♌32 | 3°51 | 23°25 | 18°49 | 14°R31 | 16°49 | 9°12 | 0♌25 | 27°20 | 16°H40 | 18°18 | 29° 9 | 17°H17 | M 2 |
| T 3 | 8 52 17 | 13°43'46 | 14°44 | 5°28 | 24°40 | 19°19 | 14°23 | 16°56 | 9°16 | 0°23 | 27°21 | 16°35 | 18°15 | 29°16 | 17°16 | T 3 |
| W 4 | 8 56 13 | 14°44'46 | 27° 4 | 7° 5 | 25°56 | 19°49 | 14°15 | 17° 2 | 9°19 | 0°22 | 27°21 | 16°31 | 18°12 | 29°22 | 17°16 | W 4 |
| T 5 | 9 0 10 | 15°45'46 | 9♌35 | 8°43 | 27°11 | 20°19 | 14° 7 | 17° 9 | 9°23 | 0°20 | 27°22 | 16°30 | 18° 9 | 29°29 | 17°15 | T 5 |
| F 6 | 9 4 7 | 16°46'45 | 22°16 | 10°21 | 28°26 | 20°49 | 13°59 | 17°16 | 9°26 | 0°19 | 27°23 | 16°D30 | 18° 6 | 29°36 | 17°15 | F 6 |
| S 7 | 9 8 3 | 17°47'43 | 5♌10 | 12° 0 | 29°41 | 21°18 | 13°51 | 17°22 | 9°30 | 0°17 | 27°23 | 16°31 | 18° 2 | 29°42 | 17°14 | S 7 |
| S 8 | 9 12 0 | 18°48'40 | 18°18 | 13°40 | 0♌57 | 21°47 | 13°43 | 17°29 | 9°33 | 0°15 | 27°24 | 16°32 | 17°59 | 29°49 | 17°13 | S 8 |
| M 9 | 9 15 56 | 19°49'35 | 1♌41 | 15°20 | 2°12 | 22°17 | 13°35 | 17°36 | 9°37 | 0°14 | 27°24 | 16°34 | 17°56 | 29°56 | 17°12 | M 9 |
| T 10 | 9 19 53 | 20°50'30 | 15°20 | 17° 1 | 3°27 | 22°46 | 13°27 | 17°42 | 9°40 | 0°12 | 27°25 | 16°R35 | 17°53 | 0♌3 | 17°11 | T 10 |
| W11 | 9 23 49 | 21°51'23 | 29°18 | 18°43 | 4°42 | 23°15 | 13°20 | 17°49 | 9°44 | 0°10 | 27°26 | 16°35 | 17°50 | 0° 9 | 17°10 | W11 |
| T 12 | 9 27 46 | 22°52'15 | 13♌32 | 20°25 | 5°57 | 23°43 | 13°12 | 17°56 | 9°47 | 0° 9 | 27°26 | 16°34 | 17°46 | 0°16 | 17° 8 | T 12 |
| F 13 | 9 31 42 | 23°53'06 | 28° 1 | 22° 8 | 7°12 | 24°12 | 13° 4 | 18° 3 | 9°51 | 0° 7 | 27°27 | 16°31 | 17°43 | 0°23 | 17° 7 | F 13 |
| S 14 | 9 35 39 | 24°53'55 | 12♌40 | 23°52 | 8°28 | 24°40 | 12°56 | 18°10 | 9°54 | 0° 5 | 27°28 | 16°28 | 17°40 | 0°30 | 17° 5 | S 14 |
| S 15 | 9 39 36 | 25°54'43 | 27°25 | 25°37 | 9°43 | 25° 8 | 12°49 | 18°17 | 9°58 | 0° 4 | 27°29 | 16°25 | 17°37 | 0°36 | 17° 4 | S 15 |
| M16 | 9 43 32 | 26°55'29 | 12♌8 | 27°22 | 10°58 | 25°36 | 12°41 | 18°24 | 10° 1 | 0° 2 | 27°29 | 16°23 | 17°34 | 0°43 | 17° 2 | M16 |
| T 17 | 9 47 29 | 27°56'15 | 26°41 | 29° 8 | 12°13 | 26° 4 | 12°33 | 18°31 | 10° 4 | 0° 0 | 27°30 | 16°21 | 17°31 | 0°50 | 17° 0 | T 17 |
| W18 | 9 51 25 | 28°56'59 | 10♌59 | 0♌55 | 13°28 | 26°32 | 12°26 | 18°38 | 10° 8 | 29°D59 | 27°31 | 16°D20 | 17°27 | 0°56 | 16°58 | W18 |
| T 19 | 9 55 22 | 29°57'41 | 24°56 | 2°42 | 14°43 | 26°59 | 12°19 | 18°45 | 10°11 | 29°57 | 27°32 | 16°20 | 17°24 | 1° 3 | 16°56 | T 19 |
| F 20 | 9 59 18 | 0♌58'23 | 8♌29 | 4°30 | 15°58 | 27°26 | 12°11 | 18°52 | 10°15 | 29°55 | 27°33 | 16°21 | 17°21 | 1°10 | 16°54 | F 20 |
| S 21 | 10 3 15 | 1°59'04 | 21°39 | 6°19 | 17°13 | 27°53 | 12° 4 | 18°59 | 10°18 | 29°54 | 27°34 | 16°22 | 17°18 | 1°17 | 16°52 | S 21 |
| S 22 | 10 7 11 | 2°59'43 | 4♌25 | 8° 8 | 18°28 | 28°20 | 11°57 | 19° 6 | 10°21 | 29°52 | 27°34 | 16°24 | 17°15 | 1°23 | 16°49 | S 22 |
| M23 | 10 11 8 | 4° 0'22 | 16°52 | 9°58 | 19°43 | 28°47 | 11°50 | 19°13 | 10°25 | 29°50 | 27°35 | 16°25 | 17°12 | 1°30 | 16°47 | M23 |
| T 24 | 10 15 5 | 5° 0'59 | 29° 4 | 11°48 | 20°58 | 29°13 | 11°43 | 19°20 | 10°28 | 29°49 | 27°36 | 16°25 | 17° 8 | 1°37 | 16°44 | T 24 |
| W25 | 10 19 1 | 6° 1'35 | 11♌4 | 13°39 | 22°12 | 29°39 | 11°36 | 19°28 | 10°31 | 29°47 | 27°37 | 16°R25 | 17° 5 | 1°43 | 16°41 | W25 |
| T 26 | 10 22 58 | 7° 2'11 | 22°57 | 15°29 | 23°27 | 0♌5 | 11°30 | 19°35 | 10°34 | 29°45 | 27°38 | 16°25 | 17° 2 | 1°50 | 16°39 | T 26 |
| F 27 | 10 26 54 | 8° 2'45 | 4♌49 | 17°20 | 24°42 | 0°31 | 11°23 | 19°42 | 10°38 | 29°44 | 27°39 | 16°24 | 16°59 | 1°57 | 16°36 | F 27 |
| S 28 | 10 30 51 | 9° 3'17 | 16°43 | 19°10 | 25°57 | 0°56 | 11°17 | 19°49 | 10°41 | 29°42 | 27°40 | 16°23 | 16°56 | 2° 4 | 16°33 | S 28 |
| S 29 | 10 34 47 | 10°H 3'49 | 28♌43 | 21°H 0 | 27°H12 | 1♌22 | 11°H11 | 19°H56 | 10°H44 | 29°H40 | 27°H41 | 16°H22 | 16°H52 | 2°H10 | 16°H30 | S 29 |

Delta T = 19m11s

ASTRODIENST EPHEMERIS for the year 2584
geocentric

MARCH 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|--------|-------|--------|-------|------|--------|------|-----|
| M 1 | 10 38 44 | 11♋ 4'19 | 10♌53 | 22♋50 | 28♋27 | 1♌46 | 11°R 5 | 20♋ 4 | 10♌47 | 29°R39 | 27♎42 | 16°R21 | 16♋49 | 2♌17 | 16°R26 | M 1 | |
| T 2 | 10 42 40 | 12° 4'48 | 23°14 | 24°38 | 29°41 | 2°11 | 10♌59 | 20°11 | 10°50 | 29♌37 | 27°43 | 16♋21 | 16°46 | 2°24 | 16♌23 | T 2 | |
| W 3 | 10 46 37 | 13° 5'15 | 5♋50 | 26°25 | 0♎56 | 2°36 | 10°53 | 20°18 | 10°54 | 29°35 | 27°44 | 16°20 | 16°43 | 2°30 | 16°20 | W 3 | |
| T 4 | 10 50 34 | 14° 5'40 | 18°39 | 28°10 | 2°11 | 3° 0 | 10°47 | 20°26 | 10°57 | 29°34 | 27°45 | 16°D20 | 16°40 | 2°37 | 16°16 | T 4 | |
| F 5 | 10 54 30 | 15° 6'04 | 1♎43 | 29°53 | 3°26 | 3°23 | 10°41 | 20°33 | 11° 0 | 29°32 | 27°46 | 16°20 | 16°37 | 2°44 | 16°13 | F 5 | |
| S 6 | 10 58 27 | 16° 6'26 | 15° 1 | 1♎34 | 4°40 | 3°47 | 10°36 | 20°40 | 11° 3 | 29°30 | 27°48 | 16°R20 | 16°33 | 2°51 | 16° 9 | S 6 | |
| S 7 | 11 2 23 | 17° 6'47 | 28°32 | 3°11 | 5°55 | 4°10 | 10°31 | 20°47 | 11° 6 | 29°29 | 27°49 | 16°20 | 16°30 | 2°57 | 16° 6 | S 7 | |
| M 8 | 11 6 20 | 18° 7'05 | 12♌15 | 4°44 | 7° 9 | 4°33 | 10°26 | 20°55 | 11° 9 | 29°27 | 27°50 | 16°20 | 16°27 | 3° 4 | 16° 2 | M 8 | |
| T 9 | 11 10 16 | 19° 7'22 | 26° 8 | 6°13 | 8°24 | 4°56 | 10°21 | 21° 2 | 11°12 | 29°26 | 27°51 | 16°20 | 16°24 | 3°11 | 15°58 | T 9 | |
| W10 | 11 14 13 | 20° 7'37 | 10♌10 | 7°38 | 9°38 | 5°18 | 10°16 | 21° 9 | 11°15 | 29°24 | 27°52 | 16°20 | 16°21 | 3°17 | 15°54 | W10 | |
| T 11 | 11 18 9 | 21° 7'49 | 24°19 | 8°56 | 10°53 | 5°40 | 10°12 | 21°17 | 11°18 | 29°23 | 27°53 | 16°D20 | 16°17 | 3°24 | 15°50 | T 11 | |
| F 12 | 11 22 6 | 22° 8'00 | 8♌33 | 10° 9 | 12° 7 | 6° 2 | 10° 7 | 21°24 | 11°21 | 29°21 | 27°54 | 16°20 | 16°14 | 3°31 | 15°46 | F 12 | |
| S 13 | 11 26 3 | 23° 8'08 | 22°50 | 11°15 | 13°22 | 6°23 | 10° 3 | 21°31 | 11°24 | 29°20 | 27°56 | 16°20 | 16°11 | 3°38 | 15°42 | S 13 | |
| S 14 | 11 29 59 | 24° 8'15 | 7♌ 6 | 12°13 | 14°36 | 6°44 | 9°59 | 21°39 | 11°26 | 29°18 | 27°57 | 16°21 | 16° 8 | 3°44 | 15°38 | S 14 | |
| M15 | 11 33 56 | 25° 8'19 | 21°19 | 13° 4 | 15°51 | 7° 5 | 9°55 | 21°46 | 11°29 | 29°17 | 27°58 | 16°22 | 16° 5 | 3°51 | 15°34 | M15 | |
| T 16 | 11 37 52 | 26° 8'22 | 5♎24 | 13°47 | 17° 5 | 7°25 | 9°51 | 21°53 | 11°32 | 29°15 | 27°59 | 16°22 | 16° 2 | 3°58 | 15°30 | T 16 | |
| W17 | 11 41 49 | 27° 8'22 | 19°18 | 14°22 | 18°19 | 7°45 | 9°48 | 22° 1 | 11°35 | 29°14 | 28° 0 | 16°R23 | 15°58 | 4° 4 | 15°25 | W17 | |
| T 18 | 11 45 45 | 28° 8'20 | 2♌57 | 14°47 | 19°33 | 8° 5 | 9°45 | 22° 8 | 11°37 | 29°12 | 28° 2 | 16°22 | 15°55 | 4°11 | 15°21 | T 18 | |
| F 19 | 11 49 42 | 29° 8'17 | 16°20 | 15° 4 | 20°48 | 8°24 | 9°41 | 22°15 | 11°40 | 29°11 | 28° 3 | 16°21 | 15°52 | 4°18 | 15°17 | F 19 | |
| S 20 | 11 53 38 | 0♎ 8'12 | 29°24 | 15°R12 | 22° 2 | 8°43 | 9°38 | 22°22 | 11°43 | 29° 9 | 28° 4 | 16°19 | 15°49 | 4°25 | 15°12 | S 20 | |
| S 21 | 11 57 35 | 1° 8'05 | 12♌10 | 15°11 | 23°16 | 9° 1 | 9°36 | 22°30 | 11°45 | 29° 8 | 28° 6 | 16°17 | 15°46 | 4°31 | 15° 8 | S 21 | |
| M22 | 12 1 31 | 2° 7'56 | 24°38 | 15° 2 | 24°30 | 9°19 | 9°33 | 22°37 | 11°48 | 29° 7 | 28° 7 | 16°15 | 15°43 | 4°38 | 15° 3 | M22 | |
| T 23 | 12 5 28 | 3° 7'46 | 6♌52 | 14°44 | 25°44 | 9°37 | 9°31 | 22°44 | 11°50 | 29° 5 | 28° 8 | 16°13 | 15°39 | 4°45 | 14°59 | T 23 | |
| W24 | 12 9 25 | 4° 7'34 | 18°54 | 14°19 | 26°58 | 9°54 | 9°28 | 22°51 | 11°53 | 29° 4 | 28° 9 | 16°11 | 15°36 | 4°51 | 14°54 | W24 | |
| T 25 | 12 13 21 | 5° 7'21 | 0♌49 | 13°46 | 28°12 | 10°11 | 9°26 | 22°59 | 11°55 | 29° 3 | 28°11 | 16°D10 | 15°33 | 4°58 | 14°49 | T 25 | |
| F 26 | 12 17 18 | 6° 7'05 | 12°41 | 13° 7 | 29°26 | 10°27 | 9°25 | 23° 6 | 11°58 | 29° 1 | 28°12 | 16°11 | 15°30 | 5° 5 | 14°45 | F 26 | |
| S 27 | 12 21 14 | 7° 6'48 | 24°35 | 12°23 | 0♌40 | 10°43 | 9°23 | 23°13 | 12° 0 | 29° 0 | 28°13 | 16°11 | 15°27 | 5°12 | 14°40 | S 27 | |
| S 28 | 12 25 11 | 8° 6'30 | 6♌36 | 11°35 | 1°54 | 10°58 | 9°22 | 23°20 | 12° 2 | 28°59 | 28°15 | 16°13 | 15°23 | 5°18 | 14°35 | S 28 | |
| M29 | 12 29 7 | 9° 6'09 | 18°49 | 10°44 | 3° 7 | 11°13 | 9°20 | 23°27 | 12° 5 | 28°58 | 28°16 | 16°15 | 15°20 | 5°25 | 14°31 | M29 | |
| T 30 | 12 33 4 | 10° 5'47 | 1♌16 | 9°50 | 4°21 | 11°28 | 9°19 | 23°34 | 12° 7 | 28°56 | 28°17 | 16°16 | 15°17 | 5°32 | 14°26 | T 30 | |
| W31 | 12 37 0 | 11° 5'23 | 14♋ 2 | 8°56 | 5♌35 | 11°42 | 9♌18 | 23♋42 | 12° 9 | 28♌55 | 28°19 | 16°R17 | 15♋14 | 5♌38 | 14♌21 | W31 | |

Delta T = 19m11s

APRIL 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|-------|--------|-------|-------|-------|--------|--------|--------|-------|------|--------|------|-----|
| T 1 | 12 40 57 | 12♎ 4'57 | 27♋ 7 | 8°R 2 | 6♌49 | 11♌55 | 9°R18 | 23♋49 | 12°11 | 28°R54 | 28°Y20 | 16°R16 | 15♋11 | 5♌45 | 14°R17 | T 1 | |
| F 2 | 12 44 54 | 13° 4'29 | 10♎32 | 7°Y 9 | 8° 2 | 12° 8 | 9♌17 | 23°56 | 12°14 | 28♌53 | 28°22 | 16♋15 | 15° 8 | 5°52 | 14♌12 | F 2 | |
| S 3 | 12 48 50 | 14° 3'59 | 24°16 | 6°19 | 9°16 | 12°20 | 9°17 | 24° 3 | 12°16 | 28°52 | 28°23 | 16°12 | 15° 4 | 5°59 | 14° 7 | S 3 | |
| S 4 | 12 52 47 | 15° 3'28 | 8♌16 | 5°32 | 10°30 | 12°32 | 9°D17 | 24°10 | 12°18 | 28°51 | 28°24 | 16° 7 | 15° 1 | 6° 5 | 14° 2 | S 4 | |
| M 5 | 12 56 43 | 16° 2'54 | 22°27 | 4°49 | 11°43 | 12°43 | 9°17 | 24°17 | 12°20 | 28°50 | 28°26 | 16° 3 | 14°58 | 6°12 | 13°58 | M 5 | |
| T 6 | 13 0 40 | 17° 2'18 | 6♌44 | 4°11 | 12°57 | 12°54 | 9°17 | 24°24 | 12°22 | 28°49 | 28°27 | 15°59 | 14°55 | 6°19 | 13°53 | T 6 | |
| W 7 | 13 4 36 | 18° 1'40 | 21° 4 | 3°37 | 14°10 | 13° 4 | 9°18 | 24°31 | 12°24 | 28°48 | 28°28 | 15°55 | 14°52 | 6°25 | 13°48 | W 7 | |
| T 8 | 13 8 33 | 19° 0'59 | 5♌22 | 3° 9 | 15°23 | 13°13 | 9°18 | 24°38 | 12°26 | 28°47 | 28°30 | 15°53 | 14°49 | 6°32 | 13°43 | T 8 | |
| F 9 | 13 12 29 | 20° 0'16 | 19°34 | 2°47 | 16°37 | 13°22 | 9°19 | 24°44 | 12°27 | 28°46 | 28°31 | 15°D52 | 14°45 | 6°39 | 13°39 | F 9 | |
| S 10 | 13 16 26 | 20°59'31 | 3♌40 | 2°30 | 17°50 | 13°31 | 9°20 | 24°51 | 12°29 | 28°45 | 28°33 | 15°53 | 14°42 | 6°46 | 13°34 | S 10 | |
| S 11 | 13 20 23 | 21°58'43 | 17°37 | 2°19 | 19° 3 | 13°38 | 9°22 | 24°58 | 12°31 | 28°44 | 28°34 | 15°54 | 14°39 | 6°52 | 13°29 | S 11 | |
| M12 | 13 24 19 | 22°57'54 | 1♎24 | 2°D13 | 20°16 | 13°45 | 9°23 | 25° 5 | 12°33 | 28°43 | 28°36 | 15°55 | 14°36 | 6°59 | 13°25 | M12 | |
| T 13 | 13 28 16 | 23°57'01 | 15° 2 | 2°13 | 21°30 | 13°52 | 9°25 | 25°12 | 12°34 | 28°42 | 28°37 | 15°R56 | 14°33 | 7° 6 | 13°20 | T 13 | |
| W14 | 13 32 12 | 24°56'07 | 28°29 | 2°19 | 22°43 | 13°58 | 9°26 | 25°18 | 12°36 | 28°42 | 28°38 | 15°55 | 14°29 | 7°12 | 13°15 | W14 | |
| T 15 | 13 36 9 | 25°55'10 | 11♌44 | 2°30 | 23°56 | 14° 3 | 9°28 | 25°25 | 12°38 | 28°41 | 28°40 | 15°53 | 14°26 | 7°19 | 13°11 | T 15 | |
| F 16 | 13 40 5 | 26°54'12 | 24°47 | 2°46 | 25° 9 | 14° 7 | 9°31 | 25°32 | 12°39 | 28°40 | 28°41 | 15°48 | 14°23 | 7°26 | 13° 6 | F 16 | |
| S 17 | 13 44 2 | 27°53'11 | 7♌37 | 3° 7 | 26°22 | 14°11 | 9°33 | 25°38 | 12°41 | 28°39 | 28°43 | 15°42 | 14°20 | 7°33 | 13° 2 | S 17 | |
| S 18 | 13 47 58 | 28°52'09 | 20°13 | 3°32 | 27°34 | 14°14 | 9°35 | 25°45 | 12°42 | 28°39 | 28°44 | 15°34 | 14°17 | 7°39 | 12°57 | S 18 | |
| M19 | 13 51 55 | 29°51'04 | 2♌36 | 4° 2 | 28°47 | 14°17 | 9°38 | 25°51 | 12°43 | 28°38 | 28°45 | 15°26 | 14°14 | 7°46 | 12°53 | M19 | |
| T 20 | 13 55 52 | 0♌49'58 | 14°47 | 4°36 | 29°59 | 14°18 | 9°41 | 25°58 | 12°45 | 28°38 | 28°47 | 15°18 | 14°10 | 7°53 | 12°49 | T 20 | |
| W21 | 13 59 48 | 1°48'50 | 26°48 | 5°14 | 1♌13 | 14°19 | 9°44 | 26° 4 | 12°46 | 28°37 | 28°48 | 15°12 | 14° 7 | 7°59 | 12°44 | W21 | |
| T 22 | 14 3 45 | 2°47'40 | 8♌34 | 5°56 | 2°25 | 14°R20 | 9°47 | 26°11 | 12°47 | 28°36 | 28°50 | 15° 7 | 14° 4 | 8° 6 | 12°40 | T 22 | |
| F 23 | 14 7 41 | 3°46'29 | 20°34 | 6°41 | 3°38 | 14°19 | 9°51 | 26°17 | 12°49 | 28°36 | 28°51 | 15° 4 | 14° 1 | 8°13 | 12°36 | F 23 | |
| S 24 | 14 11 38 | 4°45'16 | 2♌27 | 7°30 | 4°50 | 14°18 | 9°54 | 26°23 | 12°50 | 28°35 | 28°53 | 15°D 2 | 13°58 | 8°20 | 12°32 | S 24 | |
| S 25 | 14 15 34 | 5°44'01 | 14°27 | 8°23 | 6° 3 | 14°16 | 9°58 | 26°29 | 12°51 | 28°35 | 28°54 | 15° 3 | 13°55 | 8°26 | 12°27 | S 25 | |
| M26 | 14 19 31 | 6°42'45 | 26°38 | 9°18 | 7°15 | 14°13 | 10° 2 | 26°36 | 12°52 | 28°35 | 28°55 | 15° 4 | 13°51 | 8°33 | 12°23 | M26 | |
| T 27 | 14 23 27 | 7°41'26 | 9♋ 7 | 10°16 | 8°28 | 14°10 | 10° 6 | 26°42 | 12°53 | 28°34 | 28°57 | 15°R 5 | 13°48 | 8°40 | 12°19 | T 27 | |
| W28 | 14 27 24 | 8°40'06 | 21°56 | 11°18 | 9°40 | 14° 6 | 10°10 | 26°48 | 12°54 | 28°34 | 28°58 | 15° 5 | 13°45 | 8°46 | 12°16 | W28 | |
| T 29 | 14 31 21 | 9°38'45 | 5♎ 9 | 12°21 | 10°52 | 14° 1 | 10°15 | 26°54 | 12°55 | 28°33 | 29° 0 | 15° 3 | 13°42 | 8°53 | 12°12 | T 29 | |
| F 30 | 14 35 17 | 10♌37'21 | 18°Y48 | 13°Y28 | 12♌ 5 | 13♌55 | 10♌19 | 27♋ 0 | 12°56 | 28♌33 | 29°Y 1 | 14♋59 | 13♋39 | 9♌ 0 | 12♌ 8 | F 30 | |

Delta T = 19m11s

ASTRODIENST EPHEMERIS for the year 2584
geocentric

MAY 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|-------|-------|--------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 14 39 14 | 11♋35'56 | 2♌51 | 14♌37 | 13♌17 | 13°R48 | 10♌24 | 27♌6 | 12♌56 | 28°R33 | 29♌2 | 14°R52 | 13♌35 | 9♌7 | 12°R4 | S 1 | | | | | | | | |
| S 2 | 14 43 10 | 12°34'29 | 17°15 | 15°49 | 14°29 | 13♌41 | 10°29 | 27°12 | 12°57 | 28♌33 | 29°4 | 14♌44 | 13°32 | 9°13 | 12♌0 | S 2 | | | | | | | | |
| M 3 | 14 47 7 | 13°33'01 | 1♌53 | 17°2 | 15°41 | 13°33 | 10°34 | 27°18 | 12°58 | 28°32 | 29°5 | 14°35 | 13°29 | 9°20 | 11°57 | M 3 | | | | | | | | |
| T 4 | 14 51 3 | 14°31'30 | 16°38 | 18°18 | 16°53 | 13°24 | 10°40 | 27°23 | 12°59 | 28°32 | 29°7 | 14°26 | 13°26 | 9°27 | 11°53 | T 4 | | | | | | | | |
| W 5 | 14 55 0 | 15°29'57 | 1♌23 | 19°37 | 18°5 | 13°14 | 10°45 | 27°29 | 12°59 | 28°32 | 29°8 | 14°18 | 13°23 | 9°33 | 11°50 | W 5 | | | | | | | | |
| T 6 | 14 58 56 | 16°28'23 | 15°59 | 20°57 | 19°17 | 13°4 | 10°51 | 27°35 | 13°0 | 28°32 | 29°9 | 14°12 | 13°20 | 9°40 | 11°47 | T 6 | | | | | | | | |
| F 7 | 15 2 53 | 17°26'46 | 0♌22 | 22°20 | 20°28 | 12°53 | 10°56 | 27°40 | 13°0 | 28°32 | 29°11 | 14°9 | 13°16 | 9°47 | 11°43 | F 7 | | | | | | | | |
| S 8 | 15 6 50 | 18°25'07 | 14°29 | 23°44 | 21°40 | 12°41 | 11°2 | 27°46 | 13°1 | 28°D32 | 29°12 | 14°D8 | 13°13 | 9°54 | 11°40 | S 8 | | | | | | | | |
| S 9 | 15 10 46 | 19°23'26 | 28°19 | 25°11 | 22°52 | 12°28 | 11°8 | 27°51 | 13°1 | 28°32 | 29°13 | 14°8 | 13°10 | 10°0 | 11°37 | S 9 | | | | | | | | |
| M10 | 15 14 43 | 20°21'43 | 11♌53 | 26°39 | 24°3 | 12°15 | 11°14 | 27°57 | 13°1 | 28°32 | 29°15 | 14°R8 | 13°7 | 10°7 | 11°34 | M10 | | | | | | | | |
| T 11 | 15 18 39 | 21°19'58 | 25°12 | 28°10 | 25°15 | 12°1 | 11°21 | 28°2 | 13°2 | 28°32 | 29°16 | 14°8 | 13°4 | 10°14 | 11°31 | T 11 | | | | | | | | |
| W12 | 15 22 36 | 22°18'11 | 8♌18 | 29°42 | 26°26 | 11°46 | 11°27 | 28°7 | 13°2 | 28°32 | 29°17 | 14°6 | 13°0 | 10°20 | 11°28 | W12 | | | | | | | | |
| T 13 | 15 26 32 | 23°16'21 | 21°11 | 1♌17 | 27°37 | 11°31 | 11°34 | 28°13 | 13°2 | 28°32 | 29°19 | 14°1 | 12°57 | 10°27 | 11°26 | T 13 | | | | | | | | |
| F 14 | 15 30 29 | 24°14'31 | 3♌54 | 2°53 | 28°49 | 11°15 | 11°40 | 28°18 | 13°2 | 28°32 | 29°20 | 13°53 | 12°54 | 10°34 | 11°23 | F 14 | | | | | | | | |
| S 15 | 15 34 25 | 25°12'38 | 16°26 | 4°32 | 29°59 | 10°59 | 11°47 | 28°23 | 13°3 | 28°33 | 29°21 | 13°43 | 12°51 | 10°40 | 11°20 | S 15 | | | | | | | | |
| S 16 | 15 38 22 | 26°10'44 | 28°49 | 6°12 | 1♌11 | 10°42 | 11°54 | 28°28 | 13°3 | 28°33 | 29°23 | 13°30 | 12°48 | 10°47 | 11°18 | S 16 | | | | | | | | |
| M17 | 15 42 19 | 27°8'48 | 11♌2 | 7°54 | 2°22 | 10°24 | 12°1 | 28°33 | 13°R3 | 28°33 | 29°24 | 13°17 | 12°45 | 10°54 | 11°16 | M17 | | | | | | | | |
| T 18 | 15 46 15 | 28°6'50 | 23°7 | 9°38 | 3°33 | 10°6 | 12°9 | 28°38 | 13°3 | 28°33 | 29°25 | 13°5 | 12°41 | 11°1 | 11°13 | T 18 | | | | | | | | |
| W19 | 15 50 12 | 29°4'52 | 5♌4 | 11°24 | 4°44 | 9°48 | 12°16 | 28°42 | 13°2 | 28°34 | 29°26 | 12°53 | 12°38 | 11°7 | 11°11 | W19 | | | | | | | | |
| T 20 | 15 54 8 | 0♌25'1 | 16°56 | 13°12 | 5°54 | 9°29 | 12°24 | 28°47 | 13°2 | 28°34 | 29°28 | 12°44 | 12°35 | 11°14 | 11°9 | T 20 | | | | | | | | |
| F 21 | 15 58 5 | 1°0'50 | 28°46 | 15°2 | 7°5 | 9°9 | 12°31 | 28°52 | 13°2 | 28°35 | 29°29 | 12°38 | 12°32 | 11°21 | 11°7 | F 21 | | | | | | | | |
| S 22 | 16 2 1 | 1°58'47 | 10♌38 | 16°54 | 8°16 | 8°49 | 12°39 | 28°56 | 13°2 | 28°35 | 29°30 | 12°34 | 12°29 | 11°27 | 11°5 | S 22 | | | | | | | | |
| S 23 | 16 5 58 | 2°56'42 | 22°36 | 18°48 | 9°26 | 8°29 | 12°47 | 29°1 | 13°2 | 28°35 | 29°31 | 12°32 | 12°26 | 11°34 | 11°4 | S 23 | | | | | | | | |
| M24 | 16 9 54 | 3°54'37 | 4♌45 | 20°44 | 10°37 | 8°9 | 12°55 | 29°5 | 13°1 | 28°36 | 29°33 | 12°32 | 12°22 | 11°41 | 11°2 | M24 | | | | | | | | |
| T 25 | 16 13 51 | 4°52'30 | 17°11 | 22°41 | 11°47 | 7°48 | 13°3 | 29°10 | 13°1 | 28°36 | 29°34 | 12°32 | 12°19 | 11°48 | 11°1 | T 25 | | | | | | | | |
| W26 | 16 17 48 | 5°50'22 | 29°58 | 24°41 | 12°57 | 7°27 | 13°12 | 29°14 | 13°0 | 28°37 | 29°35 | 12°31 | 12°16 | 11°54 | 10°59 | W26 | | | | | | | | |
| T 27 | 16 21 44 | 6°48'13 | 13♌12 | 26°42 | 14°7 | 7°6 | 13°20 | 29°18 | 13°0 | 28°38 | 29°36 | 12°28 | 12°13 | 12°1 | 10°58 | T 27 | | | | | | | | |
| F 28 | 16 25 41 | 7°46'02 | 26°53 | 28°45 | 15°17 | 6°44 | 13°28 | 29°22 | 12°59 | 28°38 | 29°37 | 12°23 | 12°10 | 12°8 | 10°57 | F 28 | | | | | | | | |
| S 29 | 16 29 37 | 8°43'51 | 11♌4 | 0♌50 | 16°27 | 6°23 | 13°37 | 29°26 | 12°59 | 28°39 | 29°38 | 12°16 | 12°6 | 12°14 | 10°56 | S 29 | | | | | | | | |
| S 30 | 16 33 34 | 9°41'38 | 25°40 | 2°56 | 17°37 | 6°1 | 13°46 | 29°30 | 12°58 | 28°40 | 29°40 | 12°6 | 12°3 | 12°21 | 10°55 | S 30 | | | | | | | | |
| M31 | 16 37 30 | 10♌39'25 | 10♌36 | 5♌4 | 18♌47 | 5♌40 | 13♌55 | 29♌34 | 12♌58 | 28♌40 | 29♌41 | 11♌55 | 12♌0 | 12♌28 | 10♌54 | M31 | | | | | | | | |

Delta T = 19m12s

JUNE 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|--------|------|---|---|---|---|---|---|---|-----|
| T 1 | 16 41 27 | 11♌37'10 | 25♌42 | 7♌13 | 19♌57 | 5°R18 | 14♌4 | 29♌38 | 12°R57 | 28♌41 | 29♌42 | 11°R44 | 11♌57 | 12♌34 | 10°R53 | T 1 | | | | | | | | |
| W 2 | 16 45 24 | 12°34'54 | 10♌48 | 9°23 | 21°7 | 4♌57 | 14°13 | 29°42 | 12°56 | 28°42 | 29°43 | 11♌34 | 11°54 | 12°41 | 10♌52 | W 2 | | | | | | | | |
| T 3 | 16 49 20 | 13°32'36 | 25°45 | 11°34 | 22°16 | 4°36 | 14°22 | 29°45 | 12°55 | 28°43 | 29°44 | 11°27 | 11°51 | 12°48 | 10°52 | T 3 | | | | | | | | |
| F 4 | 16 53 17 | 14°30'17 | 10♌25 | 13°45 | 23°25 | 4°15 | 14°31 | 29°49 | 12°54 | 28°44 | 29°45 | 11°22 | 11°47 | 12°55 | 10°51 | F 4 | | | | | | | | |
| S 5 | 16 57 13 | 15°27'56 | 24°42 | 15°57 | 24°35 | 3°54 | 14°41 | 29°53 | 12°54 | 28°44 | 29°46 | 11°20 | 11°44 | 13°1 | 10°51 | S 5 | | | | | | | | |
| S 6 | 17 1 10 | 16°25'33 | 8♌37 | 18°9 | 25°44 | 3°34 | 14°50 | 29°56 | 12°53 | 28°45 | 29°47 | 11°19 | 11°41 | 13°8 | 10°51 | S 6 | | | | | | | | |
| M 7 | 17 5 6 | 17°23'10 | 22°9 | 20°21 | 26°53 | 3°14 | 15°0 | 29°59 | 12°52 | 28°46 | 29°48 | 11°19 | 11°38 | 13°15 | 10°D51 | M 7 | | | | | | | | |
| T 8 | 17 9 3 | 18°20'44 | 5♌21 | 22°33 | 28°2 | 2°54 | 15°9 | 0♌2 | 12°51 | 28°47 | 29°49 | 11°18 | 11°35 | 13°21 | 10°51 | T 8 | | | | | | | | |
| W 9 | 17 12 59 | 19°18'18 | 18°15 | 24°43 | 29°11 | 2°34 | 15°19 | 0°6 | 12°49 | 28°48 | 29°50 | 11°16 | 11°32 | 13°28 | 10°51 | W 9 | | | | | | | | |
| T 10 | 17 16 56 | 20°15'50 | 0♌54 | 26°53 | 0♌19 | 2°16 | 15°29 | 0°9 | 12°48 | 28°49 | 29°51 | 11°11 | 11°28 | 13°35 | 10°51 | T 10 | | | | | | | | |
| F 11 | 17 20 53 | 21°13'21 | 13°22 | 29°2 | 1°28 | 1°57 | 15°39 | 0°12 | 12°47 | 28°50 | 29°52 | 11°3 | 11°25 | 13°41 | 10°52 | F 11 | | | | | | | | |
| S 12 | 17 24 49 | 22°10'50 | 25°40 | 1♌9 | 2°37 | 1°39 | 15°49 | 0°14 | 12°46 | 28°51 | 29°53 | 10°52 | 11°22 | 13°48 | 10°52 | S 12 | | | | | | | | |
| S 13 | 17 28 46 | 23°8'19 | 7♌50 | 3°14 | 3°45 | 1°22 | 15°59 | 0°17 | 12°45 | 28°52 | 29°54 | 10°40 | 11°19 | 13°55 | 10°53 | S 13 | | | | | | | | |
| M14 | 17 32 42 | 24°5'47 | 19°53 | 5°18 | 4°53 | 1°5 | 16°10 | 0°20 | 12°43 | 28°54 | 29°55 | 10°27 | 11°16 | 14°2 | 10°53 | M14 | | | | | | | | |
| T 15 | 17 36 39 | 25°3'14 | 1♌50 | 7°20 | 6°1 | 0°49 | 16°20 | 0°22 | 12°42 | 28°55 | 29°56 | 10°14 | 11°12 | 14°8 | 10°54 | T 15 | | | | | | | | |
| W16 | 17 40 35 | 26°0'39 | 13°43 | 9°19 | 7°9 | 0°34 | 16°30 | 0°25 | 12°41 | 28°56 | 29°57 | 10°2 | 11°9 | 14°15 | 10°55 | W16 | | | | | | | | |
| T 17 | 17 44 32 | 26°58'05 | 25°34 | 11°17 | 8°17 | 0°19 | 16°41 | 0°27 | 12°39 | 28°57 | 29°58 | 9°53 | 11°6 | 14°22 | 10°56 | T 17 | | | | | | | | |
| F 18 | 17 48 28 | 27°55'29 | 7♌24 | 13°12 | 9°24 | 0°5 | 16°51 | 0°30 | 12°38 | 28°58 | 29°59 | 9°46 | 11°3 | 14°28 | 10°57 | F 18 | | | | | | | | |
| S 19 | 17 52 25 | 28°52'52 | 19°16 | 15°5 | 10°32 | 29♌51 | 17°2 | 0°32 | 12°36 | 29°0 | 29°59 | 9°41 | 11°0 | 14°35 | 10°59 | S 19 | | | | | | | | |
| S 20 | 17 56 22 | 29°50'15 | 1♌15 | 16°55 | 11°39 | 29°38 | 17°13 | 0°34 | 12°35 | 29°1 | 0♌0 | 9°40 | 10°57 | 14°42 | 11°0 | S 20 | | | | | | | | |
| M21 | 18 0 18 | 0♌47'38 | 13°24 | 18°43 | 12°46 | 29°26 | 17°24 | 0°36 | 12°33 | 29°2 | 0°1 | 9°D39 | 10°53 | 14°48 | 11°1 | M21 | | | | | | | | |
| T 22 | 18 4 15 | 1°45'00 | 25°49 | 20°28 | 13°53 | 29°15 | 17°35 | 0°38 | 12°32 | 29°4 | 0°2 | 9°R40 | 10°50 | 14°55 | 11°3 | T 22 | | | | | | | | |
| W23 | 18 8 11 | 2°42'21 | 8♌33 | 22°11 | 15°0 | 29°5 | 17°46 | 0°40 | 12°30 | 29°5 | 0°3 | 9°40 | 10°47 | 15°2 | 11°5 | W23 | | | | | | | | |
| T 24 | 18 12 8 | 3°39'43 | 21°43 | 23°52 | 16°7 | 28°55 | 17°57 | 0°41 | 12°28 | 29°6 | 0°3 | 9°38 | 10°44 | 15°9 | 11°7 | T 24 | | | | | | | | |
| F 25 | 18 16 4 | 4°37'04 | 5♌20 | 25°30 | 17°14 | 28°46 | 18°8 | 0°43 | 12°27 | 29°8 | 0°4 | 9°35 | 10°41 | 15°15 | 11°8 | F 25 | | | | | | | | |
| S 26 | 18 20 1 | 5°34'24 | 19°27 | 27°5 | 18°20 | 28°38 | 18°19 | 0°45 | 12°25 | 29°9 | 0°5 | 9°29 | 10°38 | 15°22 | 11°10 | S 26 | | | | | | | | |
| S 27 | 18 23 57 | 6°31'44 | 4♌2 | 28°38 | 19°26 | 28°31 | 18°30 | 0°46 | 12°23 | 29°11 | 0°5 | 9°21 | 10°34 | 15°29 | 11°13 | S 27 | | | | | | | | |
| M28 | 18 27 54 | 7°29'04 | 19°0 | 0♌9 | 20°32 | 28°25 | 18°42 | 0°47 | 12°21 | 29°12 | 0°6 | 9°12 | 10°31 | 15°35 | 11°15 | M28 | | | | | | | | |
| T 29 | 18 31 51 | 8°26'24 | 4♌12 | 1°36 | 21°38 | 28°19 | 18°53 | 0°49 | 12°20 | 29°14 | 0°7 | 9°4 | 10°28 | 15°42 | 11°17 | T 29 | | | | | | | | |
| W30 | 18 35 47 | 9♌23'43 | 19♌29 | 3♌2 | 22♌44 | 28♌14 | 19♌4 | 0♌50 | 12♌18 | 29♌15 | 0♌7 | 8♌56 | 10♌25 | 15♌49 | 11♌20 | W30 | | | | | | | | |

Delta T = 19m12s

ASTRODIENST EPHEMERIS for the year 2584
geocentric

JULY 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|------|
| T 1 | 18 39 44 | 10♄21'02 | 4♃39 | 4♃24 | 23♃49 | 28°R10 | 19♃16 | 0°V51 | 12°R16 | 29♃17 | 0°8 | 8°R50 | 10♃22 | 15♄55 | 11♄22 | T 1 |
| F 2 | 18 43 40 | 11°18'20 | 19°32 | 5°44 | 24°55 | 28♃7 | 19°28 | 0°52 | 12♃14 | 29°19 | 0°9 | 8♃46 | 10°19 | 16°2 | 11°25 | F 2 |
| S 3 | 18 47 37 | 12°15'37 | 4♃3 | 7°1 | 26°0 | 28°5 | 19°39 | 0°53 | 12°12 | 29°20 | 0°9 | 8°D45 | 10°15 | 16°9 | 11°28 | S 3 |
| S 4 | 18 51 33 | 13°12'54 | 18°8 | 8°15 | 27°5 | 28°4 | 19°51 | 0°53 | 12°10 | 29°22 | 0°10 | 8°45 | 10°12 | 16°16 | 11°31 | S 4 |
| M 5 | 18 55 30 | 14°10'10 | 1♄46 | 9°27 | 28°10 | 28°D 3 | 20°3 | 0°54 | 12°8 | 29°23 | 0°10 | 8°46 | 10°9 | 16°22 | 11°34 | M 5 |
| T 6 | 18 59 26 | 15°7'26 | 15°0 | 10°35 | 29°14 | 28°4 | 20°15 | 0°55 | 12°6 | 29°25 | 0°11 | 8°R46 | 10°6 | 16°29 | 11°37 | T 6 |
| W 7 | 19 3 23 | 16°4'40 | 27°52 | 11°41 | 0♃18 | 28°5 | 20°27 | 0°55 | 12°4 | 29°27 | 0°11 | 8°45 | 10°3 | 16°36 | 11°40 | W 7 |
| T 8 | 19 7 20 | 17°1'55 | 10♃26 | 12°43 | 1°22 | 28°7 | 20°38 | 0°55 | 12°2 | 29°29 | 0°12 | 8°43 | 9°59 | 16°42 | 11°43 | T 8 |
| F 9 | 19 11 16 | 17°59'09 | 22°46 | 13°42 | 2°26 | 28°9 | 20°50 | 0°56 | 12°0 | 29°30 | 0°12 | 8°38 | 9°56 | 16°49 | 11°47 | F 9 |
| S 10 | 19 15 13 | 18°56'23 | 4♃55 | 14°39 | 3°30 | 28°13 | 21°3 | 0°56 | 11°57 | 29°32 | 0°13 | 8°31 | 9°53 | 16°56 | 11°50 | S 10 |
| S 11 | 19 19 9 | 19°53'36 | 16°56 | 15°31 | 4°33 | 28°17 | 21°15 | 0°R56 | 11°55 | 29°34 | 0°13 | 8°23 | 9°50 | 17°2 | 11°54 | S 11 |
| M12 | 19 23 6 | 20°50'49 | 28°52 | 16°21 | 5°36 | 28°22 | 21°27 | 0°56 | 11°53 | 29°36 | 0°13 | 8°14 | 9°47 | 17°9 | 11°58 | M12 |
| T 13 | 19 27 2 | 21°48'02 | 10♄345 | 17°7 | 6°39 | 28°28 | 21°39 | 0°56 | 11°51 | 29°38 | 0°14 | 8°6 | 9°44 | 17°16 | 12°2 | T 13 |
| W14 | 19 30 59 | 22°45'15 | 22°36 | 17°49 | 7°41 | 28°35 | 21°51 | 0°55 | 11°49 | 29°39 | 0°14 | 7°58 | 9°40 | 17°23 | 12°6 | W14 |
| T 15 | 19 34 56 | 23°42'28 | 4♃27 | 18°27 | 8°43 | 28°42 | 22°3 | 0°55 | 11°46 | 29°41 | 0°14 | 7°52 | 9°37 | 17°29 | 12°10 | T 15 |
| F 16 | 19 38 52 | 24°39'41 | 16°20 | 19°1 | 9°45 | 28°51 | 22°16 | 0°55 | 11°44 | 29°43 | 0°15 | 7°47 | 9°34 | 17°36 | 12°14 | F 16 |
| S 17 | 19 42 49 | 25°36'54 | 28°17 | 19°31 | 10°47 | 28°59 | 22°28 | 0°54 | 11°42 | 29°45 | 0°15 | 7°45 | 9°31 | 17°43 | 12°18 | S 17 |
| S 18 | 19 46 45 | 26°34'07 | 10♃22 | 19°57 | 11°48 | 29°9 | 22°41 | 0°53 | 11°40 | 29°47 | 0°15 | 7°D45 | 9°28 | 17°49 | 12°22 | S 18 |
| M19 | 19 50 42 | 27°31'21 | 22°36 | 20°19 | 12°49 | 29°19 | 22°53 | 0°53 | 11°37 | 29°49 | 0°15 | 7°46 | 9°25 | 17°56 | 12°27 | M19 |
| T 20 | 19 54 38 | 28°28'35 | 5°V 5 | 20°36 | 13°50 | 29°30 | 23°6 | 0°52 | 11°35 | 29°51 | 0°16 | 7°47 | 9°21 | 18°3 | 12°31 | T 20 |
| W21 | 19 58 35 | 29°25'49 | 17°51 | 20°49 | 14°50 | 29°42 | 23°18 | 0°51 | 11°33 | 29°53 | 0°16 | 7°48 | 9°18 | 18°9 | 12°36 | W21 |
| T 22 | 20 2 31 | 0♃23'04 | 0♄58 | 20°57 | 15°50 | 29°54 | 23°31 | 0°50 | 11°30 | 29°55 | 0°16 | 7°R49 | 9°15 | 18°16 | 12°40 | T 22 |
| F 23 | 20 6 28 | 1°20'19 | 14°30 | 21°R 0 | 16°50 | 0♄7 | 23°43 | 0°49 | 11°28 | 29°57 | 0°16 | 7°48 | 9°12 | 18°23 | 12°45 | F 23 |
| S 24 | 20 10 25 | 2°17'35 | 28°28 | 20°58 | 17°49 | 0°21 | 23°56 | 0°48 | 11°26 | 29°59 | 0°16 | 7°46 | 9°9 | 18°29 | 12°50 | S 24 |
| S 25 | 20 14 21 | 3°14'52 | 12♃52 | 20°52 | 18°48 | 0°35 | 24°9 | 0°46 | 11°23 | 0♃1 | 0°16 | 7°42 | 9°5 | 18°36 | 12°55 | S 25 |
| M26 | 20 18 18 | 4°12'10 | 27°39 | 20°41 | 19°46 | 0°50 | 24°21 | 0°45 | 11°21 | 0°3 | 0°17 | 7°38 | 9°2 | 18°43 | 13°0 | M26 |
| T 27 | 20 22 14 | 5°9'27 | 12♄42 | 20°25 | 20°45 | 1°6 | 24°34 | 0°43 | 11°19 | 0°5 | 0°17 | 7°33 | 8°59 | 18°50 | 13°5 | T 27 |
| W28 | 20 26 11 | 6°6'46 | 27°53 | 20°4 | 21°42 | 1°22 | 24°47 | 0°42 | 11°16 | 0°7 | 0°17 | 7°29 | 8°56 | 18°56 | 13°10 | W28 |
| T 29 | 20 30 7 | 7°4'05 | 13♃2 | 19°39 | 22°40 | 1°39 | 25°0 | 0°40 | 11°14 | 0°9 | 0°17 | 7°26 | 8°53 | 19°3 | 13°16 | T 29 |
| F 30 | 20 34 4 | 8°1'24 | 27°59 | 19°10 | 23°37 | 1°56 | 25°13 | 0°38 | 11°11 | 0°11 | 0°R17 | 7°25 | 8°50 | 19°10 | 13°21 | F 30 |
| S 31 | 20 38 0 | 8♃58'43 | 12♃37 | 18♃37 | 24♃33 | 2♄14 | 25♃25 | 0°V36 | 11♃9 | 0♃13 | 0°R17 | 7°D24 | 8♃46 | 19♄16 | 13♄26 | S 31 |

Delta T = 19m12s

AUGUST 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|------|-------|-------|------|-------|-------|------|
| S 1 | 20 41 57 | 9♃56'03 | 26♃50 | 18°R 1 | 25♃29 | 2♄32 | 25♃38 | 0°R34 | 11°R 7 | 0♃15 | 0°R17 | 7♃25 | 8♃43 | 19♄23 | 13♄32 | S 1 |
| M 2 | 20 45 54 | 10°53'23 | 10♄36 | 17♃23 | 26°24 | 2°52 | 25°51 | 0°V32 | 11°4 | 0°17 | 0°R17 | 7°27 | 8°40 | 19°30 | 13°38 | M 2 |
| T 3 | 20 49 50 | 11°50'44 | 23°56 | 16°41 | 27°19 | 3°11 | 26°4 | 0°30 | 11°2 | 0°19 | 0°16 | 7°28 | 8°37 | 19°36 | 13°43 | T 3 |
| W 4 | 20 53 47 | 12°48'05 | 6♃52 | 15°59 | 28°14 | 3°31 | 26°17 | 0°28 | 10°59 | 0°22 | 0°16 | 7°R29 | 8°34 | 19°43 | 13°49 | W 4 |
| T 5 | 20 57 43 | 13°45'26 | 19°27 | 15°15 | 29°8 | 3°52 | 26°30 | 0°25 | 10°57 | 0°24 | 0°16 | 7°29 | 8°30 | 19°50 | 13°55 | T 5 |
| F 6 | 21 1 40 | 14°42'48 | 1♄46 | 14°32 | 0♄1 | 4°13 | 26°43 | 0°23 | 10°55 | 0°26 | 0°16 | 7°28 | 8°27 | 19°56 | 14°1 | F 6 |
| S 7 | 21 5 36 | 15°40'10 | 13°52 | 13°49 | 0°54 | 4°35 | 26°56 | 0°21 | 10°52 | 0°28 | 0°16 | 7°26 | 8°24 | 20°3 | 14°7 | S 7 |
| S 8 | 21 9 33 | 16°37'33 | 25°49 | 13°8 | 1°46 | 4°57 | 27°9 | 0°18 | 10°50 | 0°30 | 0°16 | 7°23 | 8°21 | 20°10 | 14°13 | S 8 |
| M 9 | 21 13 29 | 17°34'56 | 7♄42 | 12°29 | 2°38 | 5°20 | 27°22 | 0°15 | 10°47 | 0°32 | 0°16 | 7°20 | 8°18 | 20°17 | 14°19 | M 9 |
| T 10 | 21 17 26 | 18°32'20 | 19°32 | 11°53 | 3°29 | 5°43 | 27°35 | 0°12 | 10°45 | 0°35 | 0°15 | 7°17 | 8°15 | 20°23 | 14°25 | T 10 |
| W11 | 21 21 23 | 19°29'45 | 1♄24 | 11°21 | 4°19 | 6°7 | 27°48 | 0°10 | 10°43 | 0°37 | 0°15 | 7°14 | 8°11 | 20°30 | 14°32 | W11 |
| T 12 | 21 25 19 | 20°27'10 | 13°18 | 10°53 | 5°8 | 6°31 | 28°1 | 0°7 | 10°40 | 0°39 | 0°15 | 7°12 | 8°8 | 20°37 | 14°38 | T 12 |
| F 13 | 21 29 16 | 21°24'36 | 25°18 | 10°30 | 5°57 | 6°55 | 28°14 | 0°4 | 10°38 | 0°41 | 0°15 | 7°11 | 8°5 | 20°43 | 14°45 | F 13 |
| S 14 | 21 33 12 | 22°22'03 | 7♃26 | 10°12 | 6°45 | 7°20 | 28°27 | 0°1 | 10°36 | 0°43 | 0°14 | 7°D11 | 8°2 | 20°50 | 14°51 | S 14 |
| S 15 | 21 37 9 | 23°19'31 | 19°42 | 10°1 | 7°32 | 7°46 | 28°41 | 29♃58 | 10°33 | 0°46 | 0°14 | 7°11 | 7°59 | 20°57 | 14°58 | S 15 |
| M16 | 21 41 5 | 24°17'00 | 2°V 9 | 9°D55 | 8°19 | 8°11 | 28°54 | 29°54 | 10°31 | 0°48 | 0°14 | 7°12 | 7°56 | 21°3 | 15°4 | M16 |
| T 17 | 21 45 2 | 25°14'31 | 14°49 | 9°57 | 9°5 | 8°38 | 29°7 | 29°51 | 10°29 | 0°50 | 0°13 | 7°13 | 7°52 | 21°10 | 15°11 | T 17 |
| W18 | 21 48 58 | 26°12'02 | 27°45 | 10°5 | 9°49 | 9°4 | 29°20 | 29°48 | 10°26 | 0°52 | 0°13 | 7°14 | 7°49 | 21°17 | 15°18 | W18 |
| T 19 | 21 52 55 | 27°9'35 | 10♄57 | 10°20 | 10°33 | 9°31 | 29°33 | 29°44 | 10°24 | 0°54 | 0°12 | 7°15 | 7°46 | 21°23 | 15°25 | T 19 |
| F 20 | 21 56 52 | 28°7'09 | 24°29 | 10°41 | 11°16 | 9°59 | 29°46 | 29°41 | 10°22 | 0°57 | 0°12 | 7°R15 | 7°43 | 21°30 | 15°32 | F 20 |
| S 21 | 22 0 48 | 29°4'45 | 8♃21 | 11°10 | 11°58 | 10°26 | 29°59 | 29°37 | 10°20 | 0°59 | 0°11 | 7°15 | 7°40 | 21°37 | 15°39 | S 21 |
| S 22 | 22 4 45 | 0♃22 | 22°32 | 11°46 | 12°39 | 10°55 | 0♃12 | 29°33 | 10°17 | 1°1 | 0°11 | 7°15 | 7°36 | 21°43 | 15°46 | S 22 |
| M23 | 22 8 41 | 1°0'01 | 7♄1 | 12°29 | 13°19 | 11°23 | 0°26 | 29°30 | 10°15 | 1°3 | 0°11 | 7°14 | 7°33 | 21°50 | 15°53 | M23 |
| T 24 | 22 12 38 | 1°57'41 | 21°45 | 13°18 | 13°58 | 11°52 | 0°39 | 29°26 | 10°13 | 1°6 | 0°10 | 7°13 | 7°30 | 21°57 | 16°0 | T 24 |
| W25 | 22 16 34 | 2°55'23 | 6♃36 | 14°15 | 14°36 | 12°21 | 0°52 | 29°22 | 10°11 | 1°8 | 0°10 | 7°13 | 7°27 | 22°4 | 16°7 | W25 |
| T 26 | 22 20 31 | 3°53'06 | 21°29 | 15°17 | 15°13 | 12°51 | 1°5 | 29°18 | 10°9 | 1°10 | 0°9 | 7°13 | 7°24 | 22°10 | 16°14 | T 26 |
| F 27 | 22 24 27 | 4°50'50 | 6♃15 | 16°26 | 15°48 | 13°21 | 1°18 | 29°14 | 10°6 | 1°12 | 0°8 | 7°D13 | 7°21 | 22°17 | 16°22 | F 27 |
| S 28 | 22 28 24 | 5°48'35 | 20°47 | 17°41 | 16°22 | 13°51 | 1°31 | 29°10 | 10°4 | 1°14 | 0°8 | 7°13 | 7°17 | 22°24 | 16°29 | S 28 |
| S 29 | 22 32 21 | 6°46'22 | 5♄0 | 19°1 | 16°55 | 14°22 | 1°44 | 29°6 | 10°2 | 1°17 | 0°7 | 7°R13 | 7°14 | 22°30 | 16°36 | S 29 |
| M30 | 22 36 17 | 7°44'09 | 18°49 | 20°27 | 17°27 | 14°53 | 1°57 | 29°2 | 10°0 | 1°19 | 0°7 | 7°13 | 7°11 | 22°37 | 16°44 | M30 |
| T 31 | 22 40 14 | 8♃41'58 | 2♃14 | 21♃58 | 17♄57 | 15♄24 | 2♃11 | 28♃58 | 9♄58 | 1♃21 | 0°R 6 | 7♃13 | 7♃8 | 22♄44 | 16♄51 | T 31 |

Delta T = 19m13s

ASTRODIENST EPHEMERIS for the year 2584
geocentric

SEPTEMBER 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|--------|-------|--------|-------|------|--------|-------|------|--------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| W 1 | 22 44 10 | 9♎39'48 | 15♌15 | 23♊33 | 18♏25 | 15♌55 | 2♎24 | 28°R54 | 9°R56 | 1♎23 | 0°R 5 | 7°R12 | 7♋ 5 | 22♎50 | 16♏59 | W 1 | | | | | | | | |
| T 2 | 22 48 7 | 10°37'40 | 27°53 | 25°12 | 18°52 | 16°27 | 2°37 | 28♋50 | 9♏54 | 1°25 | 0♎ 5 | 7♋12 | 7° 2 | 22°57 | 17° 7 | T 2 | | | | | | | | |
| F 3 | 22 52 3 | 11°35'32 | 10♌14 | 26°56 | 19°18 | 16°59 | 2°50 | 28°46 | 9°52 | 1°28 | 0° 4 | 7°D12 | 6°58 | 23° 4 | 17°14 | F 3 | | | | | | | | |
| S 4 | 22 56 0 | 12°33'26 | 22°20 | 28°42 | 19°42 | 17°32 | 3° 3 | 28°41 | 9°50 | 1°30 | 0° 3 | 7°12 | 6°55 | 23°10 | 17°22 | S 4 | | | | | | | | |
| S 5 | 22 59 56 | 13°31'21 | 4♎17 | 0♎31 | 20° 4 | 18° 5 | 3°16 | 28°37 | 9°49 | 1°32 | 0° 3 | 7°13 | 6°52 | 23°17 | 17°30 | S 5 | | | | | | | | |
| M 6 | 23 3 53 | 14°29'17 | 16° 8 | 2°22 | 20°24 | 18°38 | 3°29 | 28°33 | 9°47 | 1°34 | 0° 2 | 7°13 | 6°49 | 23°24 | 17°38 | M 6 | | | | | | | | |
| T 7 | 23 7 50 | 15°27'15 | 27°59 | 4°16 | 20°43 | 19°11 | 3°42 | 28°28 | 9°45 | 1°36 | 0° 1 | 7°14 | 6°46 | 23°30 | 17°45 | T 7 | | | | | | | | |
| W 8 | 23 11 46 | 16°25'14 | 9♏52 | 6°10 | 20°59 | 19°45 | 3°55 | 28°24 | 9°43 | 1°39 | 0° 0 | 7°15 | 6°42 | 23°37 | 17°53 | W 8 | | | | | | | | |
| T 9 | 23 15 43 | 17°23'14 | 21°52 | 8° 6 | 21°14 | 20°18 | 4° 8 | 28°19 | 9°41 | 1°41 | 29°V59 | 7°16 | 6°39 | 23°44 | 18° 1 | T 9 | | | | | | | | |
| F 10 | 23 19 39 | 18°21'15 | 4♋ 1 | 10° 3 | 21°27 | 20°53 | 4°21 | 28°15 | 9°40 | 1°43 | 29°S59 | 7°R16 | 6°36 | 23°50 | 18° 9 | F 10 | | | | | | | | |
| S 11 | 23 23 36 | 19°19'19 | 16°22 | 12° 0 | 21°37 | 21°27 | 4°34 | 28°10 | 9°38 | 1°45 | 29°S58 | 7°16 | 6°33 | 23°57 | 18°17 | S 11 | | | | | | | | |
| S 12 | 23 27 32 | 20°17'23 | 28°55 | 13°57 | 21°46 | 22° 1 | 4°47 | 28° 6 | 9°36 | 1°47 | 29°S57 | 7°15 | 6°30 | 24° 4 | 18°25 | S 12 | | | | | | | | |
| M13 | 23 31 29 | 21°15'30 | 11°V41 | 15°54 | 21°52 | 22°36 | 4°59 | 28° 1 | 9°35 | 1°49 | 29°S56 | 7°14 | 6°27 | 24°10 | 18°33 | M13 | | | | | | | | |
| T 14 | 23 35 25 | 22°13'38 | 24°41 | 17°51 | 21°56 | 23°11 | 5°12 | 27°57 | 9°33 | 1°51 | 29°S55 | 7°12 | 6°23 | 24°17 | 18°42 | T 14 | | | | | | | | |
| W15 | 23 39 22 | 23°11'48 | 7♎56 | 19°47 | 21°R58 | 23°47 | 5°25 | 27°52 | 9°32 | 1°53 | 29°S54 | 7°10 | 6°20 | 24°24 | 18°50 | W15 | | | | | | | | |
| T 16 | 23 43 19 | 24°10'00 | 21°23 | 21°43 | 21°57 | 24°22 | 5°38 | 27°47 | 9°30 | 1°56 | 29°S54 | 7° 7 | 6°17 | 24°30 | 18°58 | T 16 | | | | | | | | |
| F 17 | 23 47 15 | 25° 8'14 | 5♎ 4 | 23°38 | 21°54 | 24°58 | 5°51 | 27°43 | 9°29 | 1°58 | 29°S53 | 7° 6 | 6°14 | 24°37 | 19° 6 | F 17 | | | | | | | | |
| S 18 | 23 51 12 | 26° 6'30 | 18°57 | 25°32 | 21°49 | 25°34 | 6° 3 | 27°38 | 9°27 | 2° 0 | 29°S52 | 7° 5 | 6°11 | 24°44 | 19°14 | S 18 | | | | | | | | |
| S 19 | 23 55 8 | 27° 4'48 | 3♎ 2 | 27°25 | 21°42 | 26°10 | 6°16 | 27°34 | 9°26 | 2° 2 | 29°S51 | 7°D 5 | 6° 8 | 24°51 | 19°23 | S 19 | | | | | | | | |
| M20 | 23 59 5 | 28° 3'08 | 17°16 | 29°17 | 21°32 | 26°47 | 6°29 | 27°29 | 9°25 | 2° 4 | 29°S50 | 7° 6 | 6° 4 | 24°57 | 19°31 | M20 | | | | | | | | |
| T 21 | 0 3 1 | 29° 1'31 | 1♎38 | 1♎ 9 | 21°19 | 27°23 | 6°41 | 27°24 | 9°23 | 2° 6 | 29°S49 | 7° 7 | 6° 1 | 25° 4 | 19°39 | T 21 | | | | | | | | |
| W22 | 0 6 58 | 29°59'55 | 16° 4 | 2°59 | 21° 5 | 28° 0 | 6°54 | 27°20 | 9°22 | 2° 8 | 29°S48 | 7° 8 | 5°58 | 25°11 | 19°48 | W22 | | | | | | | | |
| T 23 | 0 10 54 | 0♎58'21 | 0♎32 | 4°48 | 20°48 | 28°37 | 7° 6 | 27°15 | 9°21 | 2°10 | 29°S47 | 7°R 9 | 5°55 | 25°17 | 19°56 | T 23 | | | | | | | | |
| F 24 | 0 14 51 | 1°56'49 | 14°55 | 6°37 | 20°28 | 29°15 | 7°19 | 27°11 | 9°20 | 2°12 | 29°S46 | 7° 9 | 5°52 | 25°24 | 20° 5 | F 24 | | | | | | | | |
| S 25 | 0 18 48 | 2°55'19 | 29° 9 | 8°24 | 20° 7 | 29°52 | 7°31 | 27° 6 | 9°18 | 2°14 | 29°S45 | 7° 8 | 5°48 | 25°31 | 20°13 | S 25 | | | | | | | | |
| S 26 | 0 22 44 | 3°53'51 | 13♎ 9 | 10°10 | 19°43 | 0♎30 | 7°44 | 27° 2 | 9°17 | 2°16 | 29°S44 | 7° 5 | 5°45 | 25°37 | 20°22 | S 26 | | | | | | | | |
| M27 | 0 26 41 | 4°52'25 | 26°52 | 11°55 | 19°18 | 1° 8 | 7°56 | 26°57 | 9°16 | 2°18 | 29°S43 | 7° 1 | 5°42 | 25°44 | 20°30 | M27 | | | | | | | | |
| T 28 | 0 30 37 | 5°51'01 | 10♌13 | 13°39 | 18°50 | 1°46 | 8° 9 | 26°52 | 9°15 | 2°20 | 29°S42 | 6°57 | 5°39 | 25°51 | 20°39 | T 28 | | | | | | | | |
| W29 | 0 34 34 | 6°49'38 | 23°14 | 15°22 | 18°21 | 2°24 | 8°21 | 26°48 | 9°14 | 2°22 | 29°S41 | 6°52 | 5°36 | 25°57 | 20°47 | W29 | | | | | | | | |
| T 30 | 0 38 30 | 7°48'17 | 5♌54 | 17♎ 4 | 17♎50 | 3♎ 2 | 8♎33 | 26°43 | 9°14 | 2♎24 | 29°V40 | 6°48 | 5°33 | 26° 4 | 20°56 | T 30 | | | | | | | | |

Delta T = 19m13s

OCTOBER 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|--------|-------|-------|--------|-------|------|--------|-------|-------|--------|-------|------|---|---|---|---|---|---|---|-----|
| F 1 | 0 42 27 | 8♎46'58 | 18♌16 | 18♏44 | 17°R17 | 3♎41 | 8♎45 | 26°R39 | 9°R13 | 2♎25 | 29°R39 | 6°R45 | 5♋29 | 26♎11 | 21♎ 4 | F 1 | | | | | | | | |
| S 2 | 0 46 23 | 9°45'41 | 0♎23 | 20°24 | 16♏43 | 4°20 | 8°57 | 26°K35 | 9°12 | 2°27 | 29°V38 | 6°K43 | 5°26 | 26°17 | 21°13 | S 2 | | | | | | | | |
| S 3 | 0 50 20 | 10°44'25 | 12°19 | 22° 3 | 16° 8 | 4°59 | 9°10 | 26°30 | 9°11 | 2°29 | 29°V37 | 6°D42 | 5°23 | 26°24 | 21°22 | S 3 | | | | | | | | |
| M 4 | 0 54 16 | 11°43'11 | 24°10 | 23°41 | 15°32 | 5°38 | 9°22 | 26°26 | 9°10 | 2°31 | 29°V36 | 6°K43 | 5°20 | 26°31 | 21°30 | M 4 | | | | | | | | |
| T 5 | 0 58 13 | 12°41'58 | 6♏ 1 | 25°18 | 14°56 | 6°17 | 9°34 | 26°21 | 9°10 | 2°33 | 29°V34 | 6°K45 | 5°17 | 26°37 | 21°39 | T 5 | | | | | | | | |
| W 6 | 1 2 10 | 13°40'48 | 17°56 | 26°55 | 14°19 | 6°57 | 9°45 | 26°17 | 9° 9 | 2°35 | 29°V33 | 6°K46 | 5°13 | 26°44 | 21°48 | W 6 | | | | | | | | |
| T 7 | 1 6 6 | 14°39'38 | 0♋ 1 | 28°30 | 13°42 | 7°36 | 9°57 | 26°13 | 9° 9 | 2°36 | 29°V32 | 6°K48 | 5°10 | 26°51 | 21°56 | T 7 | | | | | | | | |
| F 8 | 1 10 3 | 15°38'31 | 12°17 | 0♌ 4 | 13° 5 | 8°16 | 10° 9 | 26° 9 | 9° 8 | 2°38 | 29°V31 | 6°R48 | 5° 7 | 26°57 | 22° 5 | F 8 | | | | | | | | |
| S 9 | 1 13 59 | 16°37'25 | 24°50 | 1°38 | 12°28 | 8°56 | 10°21 | 26° 5 | 9° 8 | 2°40 | 29°V30 | 6°K46 | 5° 4 | 27° 4 | 22°14 | S 9 | | | | | | | | |
| S 10 | 1 17 56 | 17°36'22 | 7°V40 | 3°11 | 11°52 | 9°36 | 10°33 | 26° 0 | 9° 7 | 2°41 | 29°V29 | 6°K43 | 5° 1 | 27°11 | 22°22 | S 10 | | | | | | | | |
| M11 | 1 21 52 | 18°35'20 | 20°48 | 4°42 | 11°17 | 10°16 | 10°44 | 25°56 | 9° 7 | 2°43 | 29°V28 | 6°K37 | 4°58 | 27°17 | 22°31 | M11 | | | | | | | | |
| T 12 | 1 25 49 | 19°34'20 | 4♎13 | 6°13 | 10°43 | 10°57 | 10°56 | 25°52 | 9° 6 | 2°45 | 29°V27 | 6°K31 | 4°54 | 27°24 | 22°40 | T 12 | | | | | | | | |
| W13 | 1 29 45 | 20°33'23 | 17°53 | 7°43 | 10°10 | 11°37 | 11° 7 | 25°48 | 9° 6 | 2°46 | 29°V26 | 6°K23 | 4°51 | 27°31 | 22°48 | W13 | | | | | | | | |
| T 14 | 1 33 42 | 21°32'27 | 1♎45 | 9°13 | 9°38 | 12°18 | 11°19 | 25°44 | 9° 6 | 2°48 | 29°V24 | 6°K16 | 4°48 | 27°37 | 22°57 | T 14 | | | | | | | | |
| F 15 | 1 37 39 | 22°31'34 | 15°46 | 10°41 | 9° 9 | 12°59 | 11°30 | 25°41 | 9° 6 | 2°50 | 29°V23 | 6°K10 | 4°45 | 27°44 | 23° 6 | F 15 | | | | | | | | |
| S 16 | 1 41 35 | 23°30'43 | 29°52 | 12° 9 | 8°41 | 13°40 | 11°41 | 25°37 | 9° 6 | 2°51 | 29°V22 | 6° 6 | 4°42 | 27°51 | 23°15 | S 16 | | | | | | | | |
| S 17 | 1 45 32 | 24°29'55 | 14♎ 0 | 13°35 | 8°15 | 14°21 | 11°53 | 25°33 | 9° 6 | 2°53 | 29°V21 | 6° 3 | 4°39 | 27°57 | 23°23 | S 17 | | | | | | | | |
| M18 | 1 49 28 | 25°29'09 | 28° 9 | 15° 1 | 7°51 | 15° 2 | 12° 4 | 25°29 | 9°D 6 | 2°54 | 29°V20 | 6°D 3 | 4°35 | 28° 4 | 23°32 | M18 | | | | | | | | |
| T 19 | 1 53 25 | 26°28'25 | 12♎17 | 16°26 | 7°29 | 15°43 | 12°15 | 25°26 | 9° 6 | 2°56 | 29°V19 | 6° 4 | 4°32 | 28°11 | 23°41 | T 19 | | | | | | | | |
| W20 | 1 57 21 | 27°27'43 | 26°22 | 17°50 | 7° 9 | 16°25 | 12°26 | 25°22 | 9° 6 | 2°57 | 29°V18 | 6° 5 | 4°29 | 28°17 | 23°49 | W20 | | | | | | | | |
| T 21 | 2 1 18 | 28°27'03 | 10♎24 | 19°13 | 6°52 | 17° 6 | 12°37 | 25°19 | 9° 6 | 2°59 | 29°V16 | 6°R 5 | 4°26 | 28°24 | 23°58 | T 21 | | | | | | | | |
| F 22 | 2 5 14 | 29°26'26 | 24°20 | 20°35 | 6°37 | 17°48 | 12°48 | 25°15 | 9° 6 | 3° 0 | 29°V15 | 6° 3 | 4°23 | 28°31 | 24° 7 | F 22 | | | | | | | | |
| S 23 | 2 9 11 | 0♌25'51 | 8♎ 9 | 21°56 | 6°25 | 18°30 | 12°58 | 25°12 | 9° 6 | 3° 1 | 29°V14 | 5°59 | 4°19 | 28°37 | 24°16 | S 23 | | | | | | | | |
| S 24 | 2 13 8 | 1°25'18 | 21°47 | 23°16 | 6°15 | 19°12 | 13° 9 | 25° 9 | 9° 6 | 3° 3 | 29°V13 | 5°53 | 4°16 | 28°44 | 24°24 | S 24 | | | | | | | | |
| M25 | 2 17 4 | 2°24'47 | 5♌12 | 24°35 | 6° 8 | 19°54 | 13°20 | 25° 6 | 9° 7 | 3° 4 | 29°V12 | 5°44 | 4°13 | 28°51 | 24°33 | M25 | | | | | | | | |
| T 26 | 2 21 1 | 3°24'18 | 18°22 | 25°53 | 6° 3 | 20°36 | 13°30 | 25° 2 | 9° 7 | 3° 5 | 29°V11 | 5°34 | 4°10 | 28°57 | 24°42 | T 26 | | | | | | | | |
| W27 | 2 24 57 | 4°23'52 | 1♌14 | 27° 9 | 6° 0 | 21°18 | 13°40 | 24°59 | 9° 8 | 3° 7 | 29°V10 | 5°23 | 4° 7 | 29° 4 | 24°50 | W27 | | | | | | | | |
| T 28 | 2 28 54 | 5°23'27 | 13°50 | 28°24 | 6°D 0 | 22° 1 | 13°51 | 24°56 | 9° 8 | 3° 8 | 29° 8 | 5°13 | 4° 4 | 29°11 | 24°59 | T 28 | | | | | | | | |
| F 29 | 2 32 50 | 6°23'03 | 26° 9 | 29°38 | 6° 2 | 22°43 | 14° 1 | 24°54 | 9° 9 | 3° 9 | 29° 7 | 5° 5 | 4° 0 | 29°17 | 25° 8 | F 29 | | | | | | | | |
| S 30 | 2 36 47 | 7°22'42 | 8♎15 | 0♌49 | 6° 6 | 23°26 | 14°11 | 24°51 | 9° 9 | 3°10 | 29° 6 | 4°58 | 3°57 | 29°24 | 25°16 | S 30 | | | | | | | | |
| S 31 | 2 40 43 | 8♌22'22 | 20♎10 | 1♌59 | 6♎13 | 24♎ 9 | 14♎21 | 24°K48 | 9°10 | 3♎12 | 29°V 5 | 4°K54 | 3°K54 | 29°K31 | 25°25 | S 31 | | | | | | | | |

Delta T = 19m13s

ASTRODIENST EPHEMERIS for the year 2584
geocentric

NOVEMBER 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|--------|------|------|--------|-------|------|-------|-------|---|------|-----|
| M 1 | 2 44 40 | 9♁22°05' | 2♋0 | 3♂7 | 6♁22 | 24♂51 | 14♁31 | 24°R46 | 9♁11 | 3♁13 | 29°R 4 | 4°R52 | 3♁51 | 29♂38 | 25♁33 | | M 1 | |
| T 2 | 2 48 37 | 10°21'48 | 13°50 | 4°13 | 6°34 | 25°34 | 14°41 | 24♁43 | 9°11 | 3°14 | 29°Y 3 | 4°D52 | 3°48 | 29°44 | 25°42 | | T 2 | |
| W 3 | 2 52 33 | 11°21'34 | 25°44 | 5°17 | 6°47 | 26°17 | 14°51 | 24°41 | 9°12 | 3°15 | 29° 2 | 4°K52 | 3°45 | 29°51 | 25°50 | | W 3 | |
| T 4 | 2 56 30 | 12°21'21 | 7♁48 | 6°18 | 7° 2 | 27° 0 | 15° 0 | 24°38 | 9°13 | 3°16 | 29° 0 | 4°R53 | 3°41 | 29°58 | 25°59 | | T 4 | |
| F 5 | 3 0 26 | 13°21'09 | 20° 8 | 7°16 | 7°20 | 27°44 | 15°10 | 24°36 | 9°14 | 3°17 | 28°59 | 4°51 | 3°38 | 0♁4 | 26° 8 | | F 5 | |
| S 6 | 3 4 23 | 14°21'00 | 2°Y47 | 8°11 | 7°39 | 28°27 | 15°19 | 24°34 | 9°15 | 3°18 | 28°58 | 4°48 | 3°35 | 0°11 | 26°16 | | S 6 | |
| S 7 | 3 8 19 | 15°20'52 | 15°49 | 9° 2 | 8° 1 | 29°10 | 15°29 | 24°32 | 9°16 | 3°19 | 28°57 | 4°42 | 3°32 | 0°18 | 26°24 | | S 7 | |
| M 8 | 3 12 16 | 16°20'45 | 29°14 | 9°50 | 8°24 | 29°54 | 15°38 | 24°30 | 9°17 | 3°20 | 28°56 | 4°34 | 3°29 | 0°24 | 26°33 | | M 8 | |
| T 9 | 3 16 12 | 17°20'41 | 13♁2 | 10°33 | 8°49 | 0♁37 | 15°47 | 24°28 | 9°18 | 3°21 | 28°55 | 4°23 | 3°25 | 0°31 | 26°41 | | T 9 | |
| W10 | 3 20 9 | 18°20'39 | 27° 8 | 11°11 | 9°16 | 1°21 | 15°56 | 24°26 | 9°19 | 3°22 | 28°54 | 4°12 | 3°22 | 0°38 | 26°50 | | W10 | |
| T 11 | 3 24 6 | 19°20'38 | 11♁29 | 11°44 | 9°44 | 2° 4 | 16° 5 | 24°24 | 9°20 | 3°22 | 28°53 | 4° 0 | 3°19 | 0°44 | 26°58 | | T 11 | |
| F 12 | 3 28 2 | 20°20'40 | 25°57 | 12°10 | 10°14 | 2°48 | 16°14 | 24°23 | 9°21 | 3°23 | 28°52 | 3°50 | 3°16 | 0°51 | 27° 6 | | F 12 | |
| S 13 | 3 31 59 | 21°20'43 | 10♁26 | 12°30 | 10°46 | 3°32 | 16°22 | 24°21 | 9°23 | 3°24 | 28°51 | 3°42 | 3°13 | 0°58 | 27°15 | | S 13 | |
| S 14 | 3 35 55 | 22°20'49 | 24°51 | 12°43 | 11°19 | 4°16 | 16°31 | 24°20 | 9°24 | 3°25 | 28°50 | 3°37 | 3°10 | 1° 4 | 27°23 | | S 14 | |
| M15 | 3 39 52 | 23°20'57 | 9♁7 | 12°R48 | 11°53 | 5° 0 | 16°39 | 24°19 | 9°26 | 3°25 | 28°49 | 3°35 | 3° 6 | 1°11 | 27°31 | | M15 | |
| T 16 | 3 43 48 | 24°21'06 | 23°14 | 12°44 | 12°29 | 5°44 | 16°47 | 24°17 | 9°27 | 3°26 | 28°48 | 3°D34 | 3° 3 | 1°18 | 27°39 | | T 16 | |
| W17 | 3 47 45 | 25°21'18 | 7♁9 | 12°31 | 13° 7 | 6°28 | 16°56 | 24°16 | 9°28 | 3°27 | 28°47 | 3°R34 | 3° 0 | 1°24 | 27°47 | | W17 | |
| T 18 | 3 51 41 | 26°21'32 | 20°54 | 12° 8 | 13°45 | 7°12 | 17° 4 | 24°15 | 9°30 | 3°27 | 28°46 | 3°34 | 2°57 | 1°31 | 27°55 | | T 18 | |
| F 19 | 3 55 38 | 27°21'47 | 4♁28 | 11°36 | 14°25 | 7°56 | 17°12 | 24°14 | 9°32 | 3°28 | 28°45 | 3°31 | 2°54 | 1°38 | 28° 4 | | F 19 | |
| S 20 | 3 59 35 | 28°22'05 | 17°52 | 10°53 | 15° 6 | 8°41 | 17°19 | 24°14 | 9°33 | 3°28 | 28°44 | 3°25 | 2°51 | 1°44 | 28°12 | | S 20 | |
| S 21 | 4 3 31 | 29°22'24 | 1♁6 | 10° 0 | 15°48 | 9°25 | 17°27 | 24°13 | 9°35 | 3°29 | 28°43 | 3°17 | 2°47 | 1°51 | 28°20 | | S 21 | |
| M22 | 4 7 28 | 0♁22'46 | 14° 8 | 8°59 | 16°32 | 10° 9 | 17°34 | 24°12 | 9°37 | 3°29 | 28°42 | 3° 5 | 2°44 | 1°58 | 28°28 | | M22 | |
| T 23 | 4 11 24 | 1°23'09 | 26°59 | 7°50 | 17°16 | 10°54 | 17°42 | 24°12 | 9°38 | 3°30 | 28°41 | 2°51 | 2°41 | 2° 4 | 28°35 | | T 23 | |
| W24 | 4 15 21 | 2°23'34 | 9♁38 | 6°34 | 18° 1 | 11°38 | 17°49 | 24°12 | 9°40 | 3°30 | 28°40 | 2°37 | 2°38 | 2°11 | 28°43 | | W24 | |
| T 25 | 4 19 17 | 3°24'00 | 22° 3 | 5°15 | 18°47 | 12°23 | 17°56 | 24°11 | 9°42 | 3°31 | 28°39 | 2°23 | 2°35 | 2°18 | 28°51 | | T 25 | |
| F 26 | 4 23 14 | 4°24'28 | 4♁15 | 3°54 | 19°35 | 13° 8 | 18° 3 | 24°11 | 9°44 | 3°31 | 28°38 | 2°11 | 2°31 | 2°24 | 28°59 | | F 26 | |
| S 27 | 4 27 11 | 5°24'58 | 16°17 | 2°34 | 20°23 | 13°52 | 18°10 | 24°D11 | 9°46 | 3°31 | 28°37 | 2° 2 | 2°28 | 2°31 | 29° 7 | | S 27 | |
| S 28 | 4 31 7 | 6°25'28 | 28° 9 | 1°18 | 21°12 | 14°37 | 18°17 | 24°11 | 9°48 | 3°31 | 28°36 | 1°55 | 2°25 | 2°38 | 29°14 | | S 28 | |
| M29 | 4 35 4 | 7°26'00 | 9♁57 | 0° 8 | 22° 2 | 15°22 | 18°23 | 24°11 | 9°50 | 3°32 | 28°35 | 1°51 | 2°22 | 2°44 | 29°22 | | M29 | |
| T 30 | 4 39 0 | 8♁26'34 | 21♁44 | 29♁6 | 22♁52 | 16♁7 | 18♁29 | 24♁12 | 9♁52 | 3♁32 | 28♁35 | 1♁49 | 2♁19 | 2♁51 | 29♁29 | | T 30 | |

Delta T = 19m14s

DECEMBER 2584

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|------|------|-------|---|------|-----|
| W 1 | 4 42 57 | 9♁27°08' | 3♁36 | 28°R14 | 23♁44 | 16♁52 | 18♁36 | 24♁12 | 9♁54 | 3♁32 | 28°R34 | 1°R49 | 2♁16 | 2♁58 | 29♁37 | | W 1 | |
| T 2 | 4 46 53 | 10°27'43 | 15°38 | 27♁33 | 24°36 | 17°37 | 18°42 | 24°13 | 9°56 | 3°32 | 28°Y33 | 1♁49 | 2°12 | 3° 4 | 29°44 | | T 2 | |
| F 3 | 4 50 50 | 11°28'20 | 27°55 | 27° 4 | 25°29 | 18°22 | 18°48 | 24°13 | 9°58 | 3°32 | 28°32 | 1°48 | 2° 9 | 3°11 | 29°52 | | F 3 | |
| S 4 | 4 54 46 | 12°28'58 | 10°Y33 | 26°46 | 26°22 | 19° 7 | 18°53 | 24°14 | 10° 1 | 3°32 | 28°31 | 1°45 | 2° 6 | 3°18 | 29°59 | | S 4 | |
| S 5 | 4 58 43 | 13°29'37 | 23°37 | 26°D40 | 27°17 | 19°52 | 18°59 | 24°15 | 10° 3 | 3°R32 | 28°30 | 1°40 | 2° 3 | 3°24 | 0♁6 | | S 5 | |
| M 6 | 5 2 39 | 14°30'17 | 7♁8 | 26°45 | 28°11 | 20°37 | 19° 4 | 24°16 | 10° 5 | 3°32 | 28°30 | 1°32 | 2° 0 | 3°31 | 0°14 | | M 6 | |
| T 7 | 5 6 36 | 15°30'58 | 21° 6 | 26°59 | 29° 7 | 21°22 | 19°10 | 24°17 | 10° 8 | 3°32 | 28°29 | 1°21 | 1°57 | 3°37 | 0°21 | | T 7 | |
| W 8 | 5 10 33 | 16°31'40 | 5♁30 | 27°23 | 0♁3 | 22° 7 | 19°15 | 24°18 | 10°10 | 3°32 | 28°28 | 1°10 | 1°53 | 3°44 | 0°28 | | W 8 | |
| T 9 | 5 14 29 | 17°32'24 | 20°13 | 27°56 | 1° 0 | 22°53 | 19°20 | 24°19 | 10°12 | 3°32 | 28°28 | 0°58 | 1°50 | 3°51 | 0°35 | | T 9 | |
| F 10 | 5 18 26 | 18°33'09 | 5♁6 | 28°36 | 1°57 | 23°38 | 19°24 | 24°20 | 10°15 | 3°32 | 28°27 | 0°48 | 1°47 | 3°57 | 0°42 | | F 10 | |
| S 11 | 5 22 22 | 19°33'55 | 20° 2 | 29°22 | 2°55 | 24°23 | 19°29 | 24°22 | 10°17 | 3°32 | 28°26 | 0°40 | 1°44 | 4° 4 | 0°49 | | S 11 | |
| S 12 | 5 26 19 | 20°34'42 | 4♁51 | 0♁15 | 3°53 | 25° 8 | 19°33 | 24°23 | 10°20 | 3°31 | 28°26 | 0°35 | 1°41 | 4°11 | 0°56 | | S 12 | |
| M13 | 5 30 15 | 21°35'31 | 19°27 | 1°13 | 4°52 | 25°54 | 19°38 | 24°25 | 10°22 | 3°31 | 28°25 | 0°33 | 1°37 | 4°17 | 1° 2 | | M13 | |
| T 14 | 5 34 12 | 22°36'21 | 3♁46 | 2°15 | 5°51 | 26°39 | 19°42 | 24°27 | 10°25 | 3°31 | 28°24 | 0°D33 | 1°34 | 4°24 | 1° 9 | | T 14 | |
| W15 | 5 38 9 | 23°37'12 | 17°45 | 3°21 | 6°51 | 27°24 | 19°46 | 24°29 | 10°28 | 3°31 | 28°24 | 0°R33 | 1°31 | 4°31 | 1°16 | | W15 | |
| T 16 | 5 42 5 | 24°38'05 | 1♁27 | 4°31 | 7°52 | 28°10 | 19°49 | 24°31 | 10°30 | 3°30 | 28°23 | 0°33 | 1°28 | 4°37 | 1°22 | | T 16 | |
| F 17 | 5 46 2 | 25°38'59 | 14°51 | 5°43 | 8°52 | 28°55 | 19°53 | 24°33 | 10°33 | 3°30 | 28°23 | 0°31 | 1°25 | 4°44 | 1°29 | | F 17 | |
| S 18 | 5 49 58 | 26°39'54 | 27°59 | 6°58 | 9°54 | 29°41 | 19°56 | 24°35 | 10°36 | 3°29 | 28°22 | 0°27 | 1°22 | 4°51 | 1°35 | | S 18 | |
| S 19 | 5 53 55 | 27°40'51 | 10♁54 | 8°16 | 10°55 | 0♁26 | 20° 0 | 24°37 | 10°39 | 3°29 | 28°22 | 0°20 | 1°18 | 4°57 | 1°41 | | S 19 | |
| M20 | 5 57 51 | 28°41'48 | 23°37 | 9°35 | 11°57 | 1°11 | 20° 3 | 24°39 | 10°41 | 3°28 | 28°21 | 0°11 | 1°15 | 5° 4 | 1°48 | | M20 | |
| T 21 | 6 1 48 | 29°42'47 | 6♁8 | 10°56 | 12°59 | 1°57 | 20° 5 | 24°42 | 10°44 | 3°28 | 28°21 | 29♁59 | 1°12 | 5°11 | 1°54 | | T 21 | |
| W22 | 6 5 44 | 0♁34'47 | 18°30 | 12°18 | 14° 2 | 2°43 | 20° 8 | 24°44 | 10°47 | 3°27 | 28°20 | 29°48 | 1° 9 | 5°17 | 2° 0 | | W22 | |
| T 23 | 6 9 41 | 1°44'47 | 0♁42 | 13°42 | 15° 5 | 3°28 | 20°11 | 24°47 | 10°50 | 3°27 | 28°20 | 29°36 | 1° 6 | 5°24 | 2° 6 | | T 23 | |
| F 24 | 6 13 38 | 2°45'49 | 12°45 | 15° 6 | 16° 9 | 4°14 | 20°13 | 24°50 | 10°53 | 3°26 | 28°19 | 29°26 | 1° 3 | 5°31 | 2°12 | | F 24 | |
| S 25 | 6 17 34 | 3°46'51 | 24°40 | 16°32 | 17°12 | 4°59 | 20°15 | 24°53 | 10°56 | 3°26 | 28°19 | 29°18 | 0°59 | 5°37 | 2°18 | | S 25 | |
| S 26 | 6 21 31 | 4°47'53 | 6♁29 | 17°58 | 18°16 | 5°45 | 20°17 | 24°56 | 10°59 | 3°25 | 28°19 | 29°12 | 0°56 | 5°44 | 2°23 | | S 26 | |
| M27 | 6 25 27 | 5°48'56 | 18°16 | 19°25 | 19°21 | 6°30 | 20°19 | 24°59 | 11° 2 | 3°24 | 28°18 | 29°10 | 0°53 | 5°51 | 2°29 | | M27 | |
| T 28 | 6 29 24 | 6°50'00 | 0♁2 | 20°53 | 20°25 | 7°16 | 20°20 | 25° 2 | 11° 5 | 3°23 | 28°18 | 29°D 9 | 0°50 | 5°57 | 2°35 | | T 28 | |
| W29 | 6 33 20 | 7°51'03 | 11°53 | 22°21 | 21°30 | 8° 2 | 20°21 | 25° 5 | 11° 8 | 3°23 | 28°18 | 29°10 | 0°47 | 6° 4 | 2°40 | | W29 | |
| T 30 | 6 37 17 | 8°52'07 | 23°53 | 23°50 | 22°35 | 8°47 | 20°23 | 25° 8 | 11°11 | 3°22 | 28°17 | 29°11 | 0°43 | 6°11 | 2°46 | | T 30 | |
| F 31 | 6 41 13 | 9♁53'12 | 6°Y 7 | 25♁19 | 23♁41 | 9♁33 | 20♁24 | 25♁12 | 11♁14 | 3♁21 | 28♁17 | 29°R12 | 0♁40 | 6♁17 | 2♁51 | | F 31 | |

Delta T = 19m14s

ASTRODIENST EPHEMERIS for the year 2585
geocentric

JANUARY 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|------|------|------|---|---|---|---|---|---|---|-----|
| S 1 | 6 45 10 | 10♌54'16 | 18♋40 | 26♋49 | 24♎47 | 10♏18 | 20♎24 | 25♏15 | 11♏17 | 3°R20 | 28°R17 | 29°R11 | 0♏37 | 6♏24 | 2♎56 | S 1 | | | | | | | | |
| S 2 | 6 49 7 | 11°55'21 | 1♌38 | 28°19 | 25°53 | 11° 4 | 20°25 | 25°19 | 11°21 | 3♎19 | 28°V17 | 29° 9 | 0°34 | 6°31 | 3° 1 | S 2 | | | | | | | | |
| M 3 | 6 53 3 | 12°56'26 | 15° 3 | 29°49 | 26°59 | 11°50 | 20°25 | 25°23 | 11°24 | 3°18 | 28°16 | 29° 5 | 0°31 | 6°37 | 3° 6 | M 3 | | | | | | | | |
| T 4 | 6 57 0 | 13°57'31 | 28°59 | 1♌20 | 28° 5 | 12°35 | 20°R25 | 25°26 | 11°27 | 3°17 | 28°16 | 29° 0 | 0°28 | 6°44 | 3°11 | T 4 | | | | | | | | |
| W 5 | 7 0 56 | 14°58'36 | 13♎22 | 2°51 | 29°12 | 13°21 | 20°25 | 25°30 | 11°30 | 3°16 | 28°16 | 28°53 | 0°24 | 6°51 | 3°16 | W 5 | | | | | | | | |
| T 6 | 7 4 53 | 15°59'42 | 28°11 | 4°23 | 0♏19 | 14° 7 | 20°25 | 25°34 | 11°34 | 3°15 | 28°16 | 28°46 | 0°21 | 6°57 | 3°21 | T 6 | | | | | | | | |
| F 7 | 7 8 49 | 17° 0'47 | 13♎16 | 5°54 | 1°26 | 14°52 | 20°25 | 25°38 | 11°37 | 3°14 | 28°16 | 28°39 | 0°18 | 7° 4 | 3°26 | F 7 | | | | | | | | |
| S 8 | 7 12 46 | 18° 1'53 | 28°29 | 7°26 | 2°33 | 15°38 | 20°24 | 25°42 | 11°40 | 3°13 | 28°16 | 28°34 | 0°15 | 7°11 | 3°30 | S 8 | | | | | | | | |
| S 9 | 7 16 43 | 19° 2'59 | 13♎39 | 8°59 | 3°41 | 16°23 | 20°23 | 25°47 | 11°43 | 3°12 | 28°16 | 28°32 | 0°12 | 7°17 | 3°35 | S 9 | | | | | | | | |
| M10 | 7 20 39 | 20° 4'05 | 28°37 | 10°32 | 4°49 | 17° 9 | 20°22 | 25°51 | 11°47 | 3°11 | 28°16 | 28°D31 | 0° 9 | 7°24 | 3°39 | M10 | | | | | | | | |
| T 11 | 7 24 36 | 21° 5'11 | 13♎16 | 12° 5 | 5°57 | 17°55 | 20°21 | 25°55 | 11°50 | 3°10 | 28°D16 | 28°31 | 0° 5 | 7°31 | 3°43 | T 11 | | | | | | | | |
| W12 | 7 28 32 | 22° 6'18 | 27°32 | 13°38 | 7° 5 | 18°40 | 20°20 | 26° 0 | 11°53 | 3° 9 | 28°16 | 28°33 | 0° 2 | 7°37 | 3°47 | W12 | | | | | | | | |
| T 13 | 7 32 29 | 23° 7'25 | 11♎23 | 15°12 | 8°13 | 19°26 | 20°18 | 26° 4 | 11°57 | 3° 8 | 28°16 | 28°34 | 29°59 | 7°44 | 3°51 | T 13 | | | | | | | | |
| F 14 | 7 36 25 | 24° 8'32 | 24°50 | 16°46 | 9°22 | 20°11 | 20°17 | 26° 9 | 12° 0 | 3° 7 | 28°16 | 28°R35 | 29°56 | 7°51 | 3°55 | F 14 | | | | | | | | |
| S 15 | 7 40 22 | 25° 9'40 | 7♎55 | 18°20 | 10°30 | 20°57 | 20°15 | 26°14 | 12° 4 | 3° 5 | 28°16 | 28°34 | 29°53 | 7°57 | 3°59 | S 15 | | | | | | | | |
| S 16 | 7 44 18 | 26°10'48 | 20°42 | 19°55 | 11°39 | 21°43 | 20°13 | 26°18 | 12° 7 | 3° 4 | 28°16 | 28°32 | 29°49 | 8° 4 | 4° 3 | S 16 | | | | | | | | |
| M17 | 7 48 15 | 27°11'56 | 3♏13 | 21°30 | 12°48 | 22°28 | 20°10 | 26°23 | 12°10 | 3° 3 | 28°16 | 28°28 | 29°46 | 8°11 | 4° 7 | M17 | | | | | | | | |
| T 18 | 7 52 12 | 28°13'04 | 15°31 | 23° 6 | 13°57 | 23°14 | 20° 8 | 26°28 | 12°14 | 3° 1 | 28°16 | 28°23 | 29°43 | 8°17 | 4°10 | T 18 | | | | | | | | |
| W19 | 7 56 8 | 29°14'12 | 27°38 | 24°42 | 15° 7 | 23°59 | 20° 5 | 26°33 | 12°17 | 3° 0 | 28°16 | 28°17 | 29°40 | 8°24 | 4°14 | W19 | | | | | | | | |
| T 20 | 8 0 5 | 0♏15'21 | 9♌38 | 26°19 | 16°16 | 24°45 | 20° 2 | 26°38 | 12°21 | 2°59 | 28°17 | 28°12 | 29°37 | 8°31 | 4°17 | T 20 | | | | | | | | |
| F 21 | 8 4 1 | 1°16'28 | 21°32 | 27°56 | 17°26 | 25°30 | 19°59 | 26°43 | 12°24 | 2°57 | 28°17 | 28° 7 | 29°34 | 8°37 | 4°20 | F 21 | | | | | | | | |
| S 22 | 8 7 58 | 2°17'36 | 3♏22 | 29°33 | 18°35 | 26°16 | 19°56 | 26°49 | 12°28 | 2°56 | 28°17 | 28° 4 | 29°30 | 8°44 | 4°23 | S 22 | | | | | | | | |
| S 23 | 8 11 54 | 3°18'43 | 15°10 | 1♏11 | 19°45 | 27° 1 | 19°52 | 26°54 | 12°31 | 2°55 | 28°17 | 28° 2 | 29°27 | 8°50 | 4°26 | S 23 | | | | | | | | |
| M24 | 8 15 51 | 4°19'50 | 26°57 | 2°49 | 20°55 | 27°47 | 19°49 | 26°59 | 12°35 | 2°53 | 28°18 | 28°D 1 | 29°24 | 8°57 | 4°29 | M24 | | | | | | | | |
| T 25 | 8 19 47 | 5°20'56 | 8♏47 | 4°28 | 22° 5 | 28°32 | 19°45 | 27° 5 | 12°38 | 2°52 | 28°18 | 28° 1 | 29°21 | 9° 4 | 4°32 | T 25 | | | | | | | | |
| W26 | 8 23 44 | 6°22'02 | 20°42 | 6° 8 | 23°15 | 29°17 | 19°41 | 27°10 | 12°42 | 2°50 | 28°18 | 28° 3 | 29°18 | 9°10 | 4°34 | W26 | | | | | | | | |
| T 27 | 8 27 41 | 7°23'07 | 2♋45 | 7°48 | 24°26 | 0♏ 3 | 19°37 | 27°16 | 12°45 | 2°49 | 28°19 | 28° 4 | 29°15 | 9°17 | 4°37 | T 27 | | | | | | | | |
| F 28 | 8 31 37 | 8°24'11 | 15° 1 | 9°28 | 25°36 | 0°48 | 19°32 | 27°21 | 12°49 | 2°47 | 28°19 | 28° 6 | 29°11 | 9°24 | 4°39 | F 28 | | | | | | | | |
| S 29 | 8 35 34 | 9°25'14 | 27°32 | 11° 9 | 26°46 | 1°34 | 19°28 | 27°27 | 12°52 | 2°46 | 28°19 | 28° 7 | 29° 8 | 9°30 | 4°42 | S 29 | | | | | | | | |
| S 30 | 8 39 30 | 10°26'17 | 10♌25 | 12°51 | 27°57 | 2°19 | 19°23 | 27°33 | 12°56 | 2°44 | 28°20 | 28°R 7 | 29° 5 | 9°37 | 4°44 | S 30 | | | | | | | | |
| M31 | 8 43 27 | 11°27'19 | 23♌41 | 14°33 | 29° 8 | 3°V 4 | 19♎18 | 27♏39 | 12°59 | 2♎43 | 28°V20 | 28° 7 | 29° 2 | 9°44 | 4♎46 | M31 | | | | | | | | |

Delta T = 19m14s

FEBRUARY 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|--------|--------|-------|-------|-------|--------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| T 1 | 8 47 23 | 12°28'19 | 7♎25 | 16°15 | 0♌19 | 3°V50 | 19°R13 | 27♏45 | 13° 3 | 2°R41 | 28°V21 | 28°R 6 | 28°59 | 9°50 | 4♎48 | T 1 | | | | | | | | |
| W 2 | 8 51 20 | 13°29'19 | 21°35 | 17°59 | 1°29 | 4°35 | 19°R 8 | 27°51 | 13° 6 | 2♎40 | 28°21 | 28° 4 | 28°55 | 9°57 | 4°50 | W 2 | | | | | | | | |
| T 3 | 8 55 16 | 14°30'18 | 6♎12 | 19°42 | 2°40 | 5°20 | 19° 3 | 27°57 | 13°10 | 2°38 | 28°22 | 28° 2 | 28°52 | 10° 4 | 4°51 | T 3 | | | | | | | | |
| F 4 | 8 59 13 | 15°31'16 | 21° 9 | 21°26 | 3°51 | 6° 5 | 18°58 | 28° 3 | 13°13 | 2°37 | 28°22 | 28° 1 | 28°49 | 10°10 | 4°53 | F 4 | | | | | | | | |
| S 5 | 9 3 10 | 16°32'13 | 6♎20 | 23°11 | 5° 3 | 6°50 | 18°52 | 28° 9 | 13°17 | 2°35 | 28°23 | 28° 0 | 28°46 | 10°17 | 4°54 | S 5 | | | | | | | | |
| S 6 | 9 7 6 | 17°33'09 | 21°35 | 24°56 | 6°14 | 7°36 | 18°46 | 28°15 | 13°20 | 2°33 | 28°23 | 27°D59 | 28°43 | 10°24 | 4°56 | S 6 | | | | | | | | |
| M 7 | 9 11 3 | 18°34'04 | 6♎45 | 26°41 | 7°25 | 8°21 | 18°40 | 28°21 | 13°24 | 2°32 | 28°24 | 27°59 | 28°40 | 10°30 | 4°57 | M 7 | | | | | | | | |
| T 8 | 9 14 59 | 19°34'58 | 21°39 | 28°26 | 8°36 | 9° 6 | 18°34 | 28°27 | 13°27 | 2°30 | 28°24 | 28° 0 | 28°36 | 10°37 | 4°58 | T 8 | | | | | | | | |
| W 9 | 9 18 56 | 20°35'51 | 6♎11 | 0♏12 | 9°48 | 9°51 | 18°28 | 28°34 | 13°31 | 2°29 | 28°25 | 28° 0 | 28°33 | 10°44 | 4°59 | W 9 | | | | | | | | |
| T 10 | 9 22 52 | 21°36'44 | 20°17 | 1°57 | 10°59 | 10°36 | 18°22 | 28°40 | 13°34 | 2°27 | 28°26 | 28° 1 | 28°30 | 10°50 | 5° 0 | T 10 | | | | | | | | |
| F 11 | 9 26 49 | 22°37'36 | 3♎56 | 3°42 | 12°11 | 11°21 | 18°15 | 28°46 | 13°38 | 2°25 | 28°26 | 28° 1 | 28°27 | 10°57 | 5° 1 | F 11 | | | | | | | | |
| S 12 | 9 30 45 | 23°38'27 | 17° 9 | 5°27 | 13°23 | 12° 6 | 18° 9 | 28°53 | 13°41 | 2°24 | 28°27 | 28° 2 | 28°24 | 11° 4 | 5° 1 | S 12 | | | | | | | | |
| S 13 | 9 34 42 | 24°39'18 | 29°57 | 7°11 | 14°35 | 12°51 | 18° 2 | 28°59 | 13°45 | 2°22 | 28°28 | 28°R 2 | 28°21 | 11°10 | 5° 2 | S 13 | | | | | | | | |
| M14 | 9 38 39 | 25°40'07 | 12♏26 | 8°55 | 15°46 | 13°36 | 17°56 | 29° 6 | 13°48 | 2°20 | 28°28 | 28° 2 | 28°17 | 11°17 | 5° 2 | M14 | | | | | | | | |
| T 15 | 9 42 35 | 26°40'56 | 24°39 | 10°37 | 16°58 | 14°21 | 17°49 | 29°13 | 13°52 | 2°19 | 28°29 | 28° 1 | 28°14 | 11°23 | 5° 3 | T 15 | | | | | | | | |
| W16 | 9 46 32 | 27°41'44 | 6♌39 | 12°18 | 18°10 | 15° 5 | 17°42 | 29°19 | 13°55 | 2°17 | 28°30 | 28°D 1 | 28°11 | 11°30 | 5° 3 | W16 | | | | | | | | |
| T 17 | 9 50 28 | 28°42'31 | 18°32 | 13°57 | 19°22 | 15°50 | 17°35 | 29°26 | 13°59 | 2°15 | 28°31 | 28° 1 | 28° 8 | 11°37 | 5°R 3 | T 17 | | | | | | | | |
| F 18 | 9 54 25 | 29°43'17 | 0♏21 | 15°33 | 20°34 | 16°35 | 17°28 | 29°33 | 14° 2 | 2°14 | 28°32 | 28° 1 | 28° 5 | 11°43 | 5° 3 | F 18 | | | | | | | | |
| S 19 | 9 58 21 | 0♏44'02 | 12° 8 | 17° 7 | 21°46 | 17°20 | 17°20 | 29°39 | 14° 6 | 2°12 | 28°32 | 28° 2 | 28° 1 | 11°50 | 5° 2 | S 19 | | | | | | | | |
| S 20 | 10 2 18 | 1°44'45 | 23°56 | 18°37 | 22°59 | 18° 5 | 17°13 | 29°46 | 14° 9 | 2°10 | 28°33 | 28°R 2 | 27°58 | 11°57 | 5° 2 | S 20 | | | | | | | | |
| M21 | 10 6 14 | 2°45'27 | 5♏48 | 20° 3 | 24°11 | 18°49 | 17° 6 | 29°53 | 14°12 | 2° 9 | 28°34 | 28° 2 | 27°55 | 12° 3 | 5° 2 | M21 | | | | | | | | |
| T 22 | 10 10 11 | 3°46'08 | 17°45 | 21°25 | 25°23 | 19°34 | 16°58 | 29°59 | 14°16 | 2° 7 | 28°35 | 28° 1 | 27°52 | 12°10 | 5° 1 | T 22 | | | | | | | | |
| W23 | 10 14 8 | 4°46'48 | 29°50 | 22°41 | 26°35 | 20°19 | 16°51 | 0♏ 7 | 14°19 | 2° 5 | 28°36 | 28° 1 | 27°49 | 12°17 | 5° 1 | W23 | | | | | | | | |
| T 24 | 10 18 4 | 5°47'25 | 12♋ 4 | 23°51 | 27°48 | 21° 3 | 16°43 | 0°14 | 14°23 | 2° 3 | 28°37 | 28° 0 | 27°46 | 12°23 | 5° 0 | T 24 | | | | | | | | |
| F 25 | 10 22 1 | 6°48'02 | 24°29 | 24°54 | 29° 0 | 21°48 | 16°35 | 0°21 | 14°26 | 2° 2 | 28°38 | 27°59 | 27°42 | 12°30 | 4°59 | F 25 | | | | | | | | |
| S 26 | 10 25 57 | 7°48'36 | 7♌ 9 | 25°50 | 0♏13 | 22°32 | 16°28 | 0°28 | 14°29 | 2° 0 | 28°39 | 27°57 | 27°39 | 12°37 | 4°58 | S 26 | | | | | | | | |
| S 27 | 10 29 54 | 8°49'09 | 20° 4 | 26°37 | 1°25 | 23°17 | 16°20 | 0°35 | 14°32 | 1°58 | 28°40 | 27°56 | 27°36 | 12°43 | 4°57 | S 27 | | | | | | | | |
| M28 | 10 33 50 | 9♏49'41 | 3♎18 | 27♏16 | 2°38 | 24°V 1 | 16♎12 | 0°V42 | 14°36 | 1♎57 | 28°V41 | 27°56 | 27°33 | 12°50 | 4♎55 | M28 | | | | | | | | |

Delta T = 19m15s

ASTRODIENST EPHEMERIS for the year 2585
geocentric

MARCH 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|------|-------|-------|-------|--------|-------|-------|-------|------|-----|
| T 1 | 10 37 47 | 10♋50'10 | 16♏53 | 27♋46 | 3♏50 | 24♏46 | 16°R 4 | 0♏49 | 14♏39 | 1°R55 | 28♏42 | 27°D56 | 27♏30 | 12♏57 | 4°R54 | T 1 | |
| W 2 | 10 41 43 | 11°50'38 | 0♏49 | 28° 6 | 5° 3 | 25°30 | 15♏56 | 0°56 | 14°42 | 1♏53 | 28°43 | 27°56 | 27°27 | 13° 3 | 4♏53 | W 2 | |
| T 3 | 10 45 40 | 12°51'04 | 15° 6 | 28°R16 | 6°15 | 26°14 | 15°49 | 1° 3 | 14°45 | 1°52 | 28°44 | 27°57 | 27°23 | 13°10 | 4°51 | T 3 | |
| F 4 | 10 49 37 | 13°51'28 | 29°43 | 28°16 | 7°28 | 26°59 | 15°41 | 1°10 | 14°49 | 1°50 | 28°45 | 27°59 | 27°20 | 13°17 | 4°49 | F 4 | |
| S 5 | 10 53 33 | 14°51'50 | 14♏35 | 28° 6 | 8°41 | 27°43 | 15°33 | 1°17 | 14°52 | 1°49 | 28°46 | 27°59 | 27°17 | 13°23 | 4°48 | S 5 | |
| S 6 | 10 57 30 | 15°52'10 | 29°35 | 27°46 | 9°53 | 28°27 | 15°25 | 1°25 | 14°55 | 1°47 | 28°47 | 28°R 0 | 27°14 | 13°30 | 4°46 | S 6 | |
| M 7 | 11 1 26 | 16°52'29 | 14♏37 | 27°17 | 11° 6 | 29°11 | 15°17 | 1°32 | 14°58 | 1°45 | 28°48 | 27°59 | 27°11 | 13°36 | 4°44 | M 7 | |
| T 8 | 11 5 23 | 17°52'45 | 29°30 | 26°40 | 12°19 | 29°55 | 15° 9 | 1°39 | 15° 1 | 1°44 | 28°49 | 27°58 | 27° 7 | 13°43 | 4°42 | T 8 | |
| W 9 | 11 9 19 | 18°53'00 | 14♏7 | 25°55 | 13°32 | 0♏39 | 15° 1 | 1°46 | 15° 4 | 1°42 | 28°50 | 27°55 | 27° 4 | 13°50 | 4°39 | W 9 | |
| T 10 | 11 13 16 | 19°53'14 | 28°22 | 25° 4 | 14°45 | 1°23 | 14°54 | 1°54 | 15° 7 | 1°40 | 28°51 | 27°52 | 27° 1 | 13°56 | 4°37 | T 10 | |
| F 11 | 11 17 12 | 20°53'26 | 12♏11 | 24° 8 | 15°57 | 2° 7 | 14°46 | 2° 1 | 15°10 | 1°39 | 28°52 | 27°49 | 26°58 | 14° 3 | 4°35 | F 11 | |
| S 12 | 11 21 9 | 21°53'36 | 25°32 | 23° 8 | 17°10 | 2°51 | 14°38 | 2° 8 | 15°13 | 1°37 | 28°54 | 27°46 | 26°55 | 14°10 | 4°32 | S 12 | |
| S 13 | 11 25 6 | 22°53'45 | 8♏28 | 22° 7 | 18°23 | 3°35 | 14°30 | 2°16 | 15°16 | 1°36 | 28°55 | 27°44 | 26°52 | 14°16 | 4°30 | S 13 | |
| M14 | 11 29 2 | 23°53'53 | 21° 0 | 21° 4 | 19°36 | 4°19 | 14°22 | 2°23 | 15°19 | 1°34 | 28°56 | 27°D43 | 26°48 | 14°23 | 4°27 | M14 | |
| T 15 | 11 32 59 | 24°53'59 | 3♏14 | 20° 3 | 20°49 | 5° 3 | 14°15 | 2°30 | 15°22 | 1°33 | 28°57 | 27°43 | 26°45 | 14°30 | 4°24 | T 15 | |
| W16 | 11 36 55 | 25°54'04 | 15°14 | 19° 4 | 22° 2 | 5°47 | 14° 7 | 2°38 | 15°25 | 1°31 | 28°58 | 27°44 | 26°42 | 14°36 | 4°21 | W16 | |
| T 17 | 11 40 52 | 26°54'07 | 27° 5 | 18° 9 | 23°15 | 6°31 | 14° 0 | 2°45 | 15°28 | 1°30 | 29° 0 | 27°46 | 26°39 | 14°43 | 4°18 | T 17 | |
| F 18 | 11 44 48 | 27°54'08 | 8♏52 | 17°17 | 24°28 | 7°14 | 13°52 | 2°52 | 15°31 | 1°28 | 29° 1 | 27°48 | 26°36 | 14°50 | 4°15 | F 18 | |
| S 19 | 11 48 45 | 28°54'07 | 20°39 | 16°31 | 25°41 | 7°58 | 13°45 | 3° 0 | 15°34 | 1°27 | 29° 2 | 27°49 | 26°32 | 14°56 | 4°12 | S 19 | |
| S 20 | 11 52 41 | 29°54'05 | 2♏30 | 15°51 | 26°55 | 8°42 | 13°37 | 3° 7 | 15°36 | 1°25 | 29° 3 | 27°R49 | 26°29 | 15° 3 | 4° 9 | S 20 | |
| M21 | 11 56 38 | 0♏54'01 | 14°28 | 15°16 | 28° 8 | 9°25 | 13°30 | 3°15 | 15°39 | 1°24 | 29° 5 | 27°48 | 26°26 | 15°10 | 4° 5 | M21 | |
| T 22 | 12 0 35 | 1°53'55 | 26°35 | 14°48 | 29°21 | 10° 9 | 13°23 | 3°22 | 15°42 | 1°23 | 29° 6 | 27°45 | 26°23 | 15°16 | 4° 2 | T 22 | |
| W23 | 12 4 31 | 2°53'48 | 8♏54 | 14°27 | 0♏34 | 10°52 | 13°16 | 3°29 | 15°45 | 1°21 | 29° 7 | 27°40 | 26°20 | 15°23 | 3°59 | W23 | |
| T 24 | 12 8 28 | 3°53'38 | 21°25 | 14°12 | 1°47 | 11°36 | 13° 9 | 3°37 | 15°47 | 1°20 | 29° 8 | 27°34 | 26°17 | 15°29 | 3°55 | T 24 | |
| F 25 | 12 12 24 | 4°53'26 | 4♏9 | 14° 3 | 3° 0 | 12°19 | 13° 2 | 3°44 | 15°50 | 1°18 | 29°10 | 27°28 | 26°13 | 15°36 | 3°51 | F 25 | |
| S 26 | 12 16 21 | 5°53'13 | 17° 6 | 14°D 1 | 4°14 | 13° 3 | 12°55 | 3°51 | 15°52 | 1°17 | 29°11 | 27°21 | 26°10 | 15°43 | 3°48 | S 26 | |
| S 27 | 12 20 17 | 6°52'57 | 0♏15 | 14° 5 | 5°27 | 13°46 | 12°48 | 3°59 | 15°55 | 1°16 | 29°12 | 27°15 | 26° 7 | 15°49 | 3°44 | S 27 | |
| M28 | 12 24 14 | 7°52'39 | 13°38 | 14°14 | 6°40 | 14°29 | 12°42 | 4° 6 | 15°57 | 1°14 | 29°14 | 27°11 | 26° 4 | 15°56 | 3°40 | M28 | |
| T 29 | 12 28 10 | 8°52'19 | 27°15 | 14°29 | 7°53 | 15°13 | 12°35 | 4°14 | 16° 0 | 1°13 | 29°15 | 27° 8 | 26° 1 | 16° 3 | 3°36 | T 29 | |
| W30 | 12 32 7 | 9°51'57 | 11♏5 | 14°49 | 9° 6 | 15°56 | 12°29 | 4°21 | 16° 2 | 1°12 | 29°16 | 27°D 8 | 25°58 | 16° 9 | 3°32 | W30 | |
| T 31 | 12 36 4 | 10°51'32 | 25♏9 | 15♏14 | 10♏20 | 16♏39 | 12♏23 | 4°28 | 16° 5 | 1♏11 | 29°18 | 27° 9 | 25°54 | 16°16 | 3♏28 | T 31 | |

Delta T = 19m15s

APRIL 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|------|-------|-------|-------|--------|-------|-------|-------|------|-----|
| F 1 | 12 40 0 | 11°51'05 | 9♏26 | 15♏43 | 11♏33 | 17♏22 | 12°R17 | 4°36 | 16° 7 | 1°R10 | 29°19 | 27° 10 | 25°51 | 16°23 | 3°R24 | F 1 | |
| S 2 | 12 43 57 | 12°50'35 | 23°54 | 16°17 | 12°46 | 18° 5 | 12♏11 | 4°43 | 16° 9 | 1♏8 | 29°20 | 27°R11 | 25°48 | 16°29 | 3♏20 | S 2 | |
| S 3 | 12 47 53 | 13°50'04 | 8♏29 | 16°56 | 14° 0 | 18°48 | 12° 5 | 4°50 | 16°12 | 1° 7 | 29°22 | 27°10 | 25°45 | 16°36 | 3°16 | S 3 | |
| M 4 | 12 51 50 | 14°49'30 | 23° 8 | 17°38 | 15°13 | 19°31 | 11°59 | 4°58 | 16°14 | 1° 6 | 29°23 | 27° 8 | 25°42 | 16°43 | 3°11 | M 4 | |
| T 5 | 12 55 46 | 15°48'54 | 7♏43 | 18°23 | 16°26 | 20°14 | 11°54 | 5° 5 | 16°16 | 1° 5 | 29°25 | 27° 3 | 25°38 | 16°49 | 3° 7 | T 5 | |
| W 6 | 12 59 43 | 16°48'16 | 22° 8 | 19°12 | 17°39 | 20°57 | 11°48 | 5°12 | 16°18 | 1° 4 | 29°26 | 26°56 | 25°35 | 16°56 | 3° 3 | W 6 | |
| T 7 | 13 3 39 | 17°47'36 | 6♏16 | 20° 5 | 18°53 | 21°40 | 11°43 | 5°20 | 16°20 | 1° 3 | 29°27 | 26°48 | 25°32 | 17° 3 | 2°58 | T 7 | |
| F 8 | 13 7 36 | 18°46'54 | 20° 3 | 21° 0 | 20° 6 | 22°22 | 11°38 | 5°27 | 16°22 | 1° 2 | 29°29 | 26°39 | 25°29 | 17° 9 | 2°54 | F 8 | |
| S 9 | 13 11 32 | 19°46'10 | 3♏27 | 21°59 | 21°19 | 23° 5 | 11°33 | 5°34 | 16°24 | 1° 1 | 29°30 | 26°31 | 25°26 | 17°16 | 2°50 | S 9 | |
| S 10 | 13 15 29 | 20°45'24 | 16°26 | 23° 0 | 22°33 | 23°48 | 11°28 | 5°41 | 16°26 | 1° 0 | 29°32 | 26°24 | 25°23 | 17°22 | 2°45 | S 10 | |
| M11 | 13 19 26 | 21°44'37 | 29° 2 | 24° 4 | 23°46 | 24°31 | 11°24 | 5°49 | 16°28 | 0°59 | 29°33 | 26°19 | 25°19 | 17°29 | 2°40 | M11 | |
| T 12 | 13 23 22 | 22°43'48 | 11♏18 | 25°10 | 25° 0 | 25°13 | 11°19 | 5°56 | 16°30 | 0°58 | 29°34 | 26°17 | 25°16 | 17°36 | 2°36 | T 12 | |
| W13 | 13 27 19 | 23°42'57 | 23°20 | 26°18 | 26°13 | 25°56 | 11°15 | 6° 3 | 16°32 | 0°57 | 29°36 | 26°D16 | 25°13 | 17°42 | 2°31 | W13 | |
| T 14 | 13 31 15 | 24°42'05 | 5♏12 | 27°29 | 27°26 | 26°38 | 11°11 | 6°10 | 16°34 | 0°56 | 29°37 | 26°16 | 25°10 | 17°49 | 2°27 | T 14 | |
| F 15 | 13 35 12 | 25°41'10 | 17° 0 | 28°42 | 28°40 | 27°21 | 11° 7 | 6°17 | 16°36 | 0°55 | 29°39 | 26°17 | 25° 7 | 17°56 | 2°22 | F 15 | |
| S 16 | 13 39 8 | 26°40'14 | 28°48 | 29°58 | 29°53 | 28° 3 | 11° 3 | 6°24 | 16°37 | 0°55 | 29°40 | 26°R17 | 25° 4 | 18° 2 | 2°17 | S 16 | |
| S 17 | 13 43 5 | 27°39'16 | 10♏42 | 1°15 | 1° 6 | 28°46 | 11° 0 | 6°32 | 16°39 | 0°54 | 29°41 | 26°16 | 25° 0 | 18° 9 | 2°13 | S 17 | |
| M18 | 13 47 1 | 28°38'16 | 22°47 | 2°34 | 2°20 | 29°28 | 10°56 | 6°39 | 16°41 | 0°53 | 29°43 | 26°13 | 24°57 | 18°16 | 2° 8 | M18 | |
| T 19 | 13 50 58 | 29°37'15 | 5°15 | 3°55 | 3°33 | 0♏10 | 10°53 | 6°46 | 16°42 | 0°52 | 29°44 | 26° 7 | 24°54 | 18°22 | 2° 3 | T 19 | |
| W20 | 13 54 55 | 0♏36'11 | 17°37 | 5°18 | 4°47 | 0°53 | 10°50 | 6°53 | 16°44 | 0°52 | 29°46 | 25°59 | 24°51 | 18°29 | 1°59 | W20 | |
| T 21 | 13 58 51 | 1°35'06 | 0♏27 | 6°43 | 6° 0 | 1°35 | 10°47 | 7° 0 | 16°45 | 0°51 | 29°47 | 25°48 | 24°48 | 18°36 | 1°54 | T 21 | |
| F 22 | 14 2 48 | 2°33'58 | 13°32 | 8° 9 | 7°14 | 2°17 | 10°44 | 7° 7 | 16°47 | 0°50 | 29°48 | 25°37 | 24°44 | 18°42 | 1°49 | F 22 | |
| S 23 | 14 6 44 | 3°32'49 | 26°52 | 9°38 | 8°27 | 2°59 | 10°42 | 7°13 | 16°48 | 0°50 | 29°50 | 25°25 | 24°41 | 18°49 | 1°45 | S 23 | |
| S 24 | 14 10 41 | 4°31'38 | 10♏25 | 11° 8 | 9°40 | 3°41 | 10°39 | 7°20 | 16°50 | 0°49 | 29°51 | 25°15 | 24°38 | 18°55 | 1°40 | S 24 | |
| M25 | 14 14 37 | 5°30'24 | 24° 8 | 12°39 | 10°54 | 4°23 | 10°37 | 7°27 | 16°51 | 0°49 | 29°53 | 25° 7 | 24°35 | 19° 2 | 1°35 | M25 | |
| T 26 | 14 18 34 | 6°29'09 | 7♏59 | 14°13 | 12° 7 | 5° 5 | 10°35 | 7°34 | 16°52 | 0°48 | 29°54 | 25° 1 | 24°32 | 19° 9 | 1°31 | T 26 | |
| W27 | 14 22 30 | 7°27'51 | 21°56 | 15°48 | 13°21 | 5°47 | 10°33 | 7°41 | 16°53 | 0°48 | 29°56 | 24°59 | 24°29 | 19°15 | 1°26 | W27 | |
| T 28 | 14 26 27 | 8°26'31 | 5♏58 | 17°25 | 14°34 | 6°29 | 10°32 | 7°48 | 16°54 | 0°47 | 29°57 | 24°D58 | 24°25 | 19°22 | 1°21 | T 28 | |
| F 29 | 14 30 24 | 9°25'09 | 20° 5 | 19° 3 | 15°47 | 7°11 | 10°30 | 7°54 | 16°56 | 0°47 | 29°58 | 24°R58 | 24°22 | 19°29 | 1°17 | F 29 | |
| S 30 | 14 34 20 | 10°23'44 | 4♏16 | 20°43 | 17°15 | 7♏53 | 10♏29 | 8°15 | 16°57 | 0♏47 | 29°59 | 24°58 | 24°19 | 19°35 | 1♏12 | S 30 | |

Delta T = 19m15s

ASTRODIENST EPHEMERIS for the year 2585
geocentric

MAY 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|-------|------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 14 38 17 | 11♌22'17 | 18♍28 | 22♎25 | 18♏14 | 8♐35 | 10°R28 | 8♑ 7 | 16♒58 | 0°R46 | 0♃ 1 | 24°R56 | 24♓16 | 19♔42 | 1°R 7 | S 1 | | | | | | | | |
| M 2 | 14 42 13 | 12°20'48 | 2♌40 | 24° 8 | 19°28 | 9°17 | 10♍27 | 8°14 | 16°59 | 0♄46 | 0° 3 | 24♓52 | 24°13 | 19°49 | 1♎ 3 | M 2 | | | | | | | | |
| T 3 | 14 46 10 | 13°19'17 | 16°49 | 25°53 | 20°41 | 9°58 | 10°26 | 8°21 | 17° 0 | 0°46 | 0° 4 | 24°45 | 24°10 | 19°55 | 0°58 | T 3 | | | | | | | | |
| W 4 | 14 50 6 | 14°17'44 | 0♍51 | 27°40 | 21°55 | 10°40 | 10°26 | 8°27 | 17° 0 | 0°45 | 0° 5 | 24°35 | 24° 6 | 20° 2 | 0°54 | W 4 | | | | | | | | |
| T 5 | 14 54 3 | 15°16'09 | 14°40 | 29°28 | 23° 8 | 11°22 | 10°25 | 8°34 | 17° 1 | 0°45 | 0° 7 | 24°24 | 24° 3 | 20° 9 | 0°49 | T 5 | | | | | | | | |
| F 6 | 14 57 59 | 16°14'32 | 28°12 | 1♌19 | 24°21 | 12° 3 | 10°D25 | 8°40 | 17° 2 | 0°45 | 0° 8 | 24°11 | 24° 0 | 20°15 | 0°45 | F 6 | | | | | | | | |
| S 7 | 15 1 56 | 17°12'54 | 11♌26 | 3°11 | 25°35 | 12°45 | 10°25 | 8°46 | 17° 3 | 0°45 | 0° 9 | 23°59 | 23°57 | 20°22 | 0°41 | S 7 | | | | | | | | |
| S 8 | 15 5 53 | 18°11'14 | 24°20 | 5° 4 | 26°48 | 13°26 | 10°26 | 8°53 | 17° 3 | 0°45 | 0°11 | 23°49 | 23°54 | 20°29 | 0°36 | S 8 | | | | | | | | |
| M 9 | 15 9 49 | 19° 9'32 | 6♌53 | 7° 0 | 28° 2 | 14° 8 | 10°26 | 8°59 | 17° 4 | 0°45 | 0°12 | 23°41 | 23°50 | 20°35 | 0°32 | M 9 | | | | | | | | |
| T 10 | 15 13 46 | 20° 7'49 | 19° 9 | 8°57 | 29°15 | 14°49 | 10°27 | 9° 5 | 17° 5 | 0°45 | 0°13 | 23°35 | 23°47 | 20°42 | 0°28 | T 10 | | | | | | | | |
| W11 | 15 17 42 | 21° 6'04 | 1♌11 | 10°55 | 0♃28 | 15°30 | 10°27 | 9°11 | 17° 5 | 0°D45 | 0°15 | 23°33 | 23°44 | 20°48 | 0°24 | W11 | | | | | | | | |
| T 12 | 15 21 39 | 22° 4'18 | 13° 4 | 12°56 | 1°42 | 16°12 | 10°28 | 9°17 | 17° 6 | 0°45 | 0°16 | 23°32 | 23°41 | 20°55 | 0°19 | T 12 | | | | | | | | |
| F 13 | 15 25 35 | 23° 2'30 | 24°53 | 14°58 | 2°55 | 16°53 | 10°30 | 9°23 | 17° 6 | 0°45 | 0°17 | 23°31 | 23°38 | 21° 2 | 0°15 | F 13 | | | | | | | | |
| S 14 | 15 29 32 | 24° 0'41 | 6♌42 | 17° 1 | 4° 9 | 17°34 | 10°31 | 9°29 | 17° 7 | 0°45 | 0°19 | 23°31 | 23°35 | 21° 8 | 0°11 | S 14 | | | | | | | | |
| S 15 | 15 33 28 | 24°58'50 | 18°39 | 19° 6 | 5°22 | 18°15 | 10°32 | 9°35 | 17° 7 | 0°45 | 0°20 | 23°30 | 23°31 | 21°15 | 0° 7 | S 15 | | | | | | | | |
| M16 | 15 37 25 | 25°56'58 | 0♎47 | 21°12 | 6°36 | 18°57 | 10°34 | 9°41 | 17° 7 | 0°45 | 0°21 | 23°26 | 23°28 | 21°22 | 0° 4 | M16 | | | | | | | | |
| T 17 | 15 41 22 | 26°55'04 | 13°11 | 23°20 | 7°49 | 19°38 | 10°36 | 9°47 | 17° 7 | 0°45 | 0°23 | 23°20 | 23°25 | 21°28 | 29♌59 | T 17 | | | | | | | | |
| W18 | 15 45 18 | 27°53'09 | 25°54 | 25°29 | 9° 2 | 20°19 | 10°38 | 9°53 | 17° 8 | 0°45 | 0°24 | 23°11 | 23°22 | 21°35 | 29°56 | W18 | | | | | | | | |
| T 19 | 15 49 15 | 28°51'13 | 8♌59 | 27°38 | 10°16 | 21° 0 | 10°40 | 9°59 | 17° 8 | 0°46 | 0°25 | 23° 0 | 23°19 | 21°42 | 29°52 | T 19 | | | | | | | | |
| F 20 | 15 53 11 | 29°49'15 | 22°23 | 29°48 | 11°29 | 21°41 | 10°43 | 10° 4 | 17° 8 | 0°46 | 0°27 | 22°48 | 23°15 | 21°48 | 29°49 | F 20 | | | | | | | | |
| S 21 | 15 57 8 | 0♐47'15 | 6♐ 6 | 1♐59 | 12°43 | 22°22 | 10°45 | 10°10 | 17°R 8 | 0°46 | 0°28 | 22°36 | 23°12 | 21°55 | 29°45 | S 21 | | | | | | | | |
| S 22 | 16 1 4 | 1°45'15 | 20° 4 | 4°10 | 13°56 | 23° 3 | 10°48 | 10°15 | 17° 8 | 0°47 | 0°29 | 22°25 | 23° 9 | 22° 2 | 29°42 | S 22 | | | | | | | | |
| M23 | 16 5 1 | 2°43'12 | 4♌12 | 6°21 | 15°10 | 23°44 | 10°51 | 10°21 | 17° 8 | 0°47 | 0°30 | 22°16 | 23° 6 | 22° 8 | 29°38 | M23 | | | | | | | | |
| T 24 | 16 8 58 | 3°41'08 | 18°26 | 8°32 | 16°23 | 24°25 | 10°54 | 10°26 | 17° 8 | 0°47 | 0°31 | 22°10 | 23° 3 | 22°15 | 29°35 | T 24 | | | | | | | | |
| W25 | 16 12 54 | 4°39'02 | 2♌42 | 10°42 | 17°37 | 25° 5 | 10°57 | 10°32 | 17° 7 | 0°48 | 0°33 | 22° 7 | 23° 0 | 22°21 | 29°32 | W25 | | | | | | | | |
| T 26 | 16 16 51 | 5°36'55 | 16°55 | 12°51 | 18°50 | 25°46 | 11° 1 | 10°37 | 17° 7 | 0°48 | 0°34 | 22°D 6 | 22°56 | 22°28 | 29°28 | T 26 | | | | | | | | |
| F 27 | 16 20 47 | 6°34'45 | 1♍ 5 | 14°59 | 20° 3 | 26°27 | 11° 4 | 10°42 | 17° 7 | 0°49 | 0°35 | 22°R 6 | 22°53 | 22°35 | 29°25 | F 27 | | | | | | | | |
| S 28 | 16 24 44 | 7°32'34 | 15°10 | 17° 6 | 21°17 | 27° 8 | 11° 8 | 10°47 | 17° 7 | 0°49 | 0°36 | 22° 6 | 22°50 | 22°41 | 29°22 | S 28 | | | | | | | | |
| S 29 | 16 28 40 | 8°30'21 | 29° 9 | 19°10 | 22°30 | 27°48 | 11°12 | 10°52 | 17° 6 | 0°50 | 0°37 | 22° 4 | 22°47 | 22°48 | 29°19 | S 29 | | | | | | | | |
| M30 | 16 32 37 | 9°28'06 | 13♌ 2 | 21°13 | 23°44 | 28°29 | 11°16 | 10°57 | 17° 6 | 0°50 | 0°39 | 22° 0 | 22°44 | 22°55 | 29°17 | M30 | | | | | | | | |
| T 31 | 16 36 33 | 10♐25'50 | 26♌47 | 23♐14 | 24♏57 | 29♐10 | 11♍20 | 11♎ 2 | 17♏ 5 | 0♎51 | 0♃40 | 21♓54 | 22♓41 | 23♓ 1 | 29♌14 | T 31 | | | | | | | | |

Delta T = 19m15s

JUNE 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|------|------|--------|-------|-------|---------|------|---|---|---|---|---|---|---|-----|
| W 1 | 16 40 30 | 11♐23'33 | 10♎22 | 25♏13 | 26♐11 | 29♐50 | 11♍25 | 11♎ 7 | 17°R 5 | 0♎52 | 0♃41 | 21°R45 | 22♓37 | 23♓ 8 | 29°R 11 | W 1 | | | | | | | | |
| T 2 | 16 44 27 | 12°21'14 | 23°47 | 27° 9 | 27°24 | 0♃31 | 11°29 | 11°12 | 17♏ 4 | 0°52 | 0°42 | 21♓35 | 22°34 | 23°15 | 29♌ 9 | T 2 | | | | | | | | |
| F 3 | 16 48 23 | 13°18'53 | 6♌57 | 29° 3 | 28°37 | 1°11 | 11°34 | 11°17 | 17° 4 | 0°53 | 0°43 | 21°23 | 22°31 | 23°21 | 29° 6 | F 3 | | | | | | | | |
| S 4 | 16 52 20 | 14°16'32 | 19°53 | 0♄54 | 29°51 | 1°51 | 11°39 | 11°21 | 17° 3 | 0°54 | 0°44 | 21°12 | 22°28 | 23°28 | 29° 4 | S 4 | | | | | | | | |
| S 5 | 16 56 16 | 15°14'09 | 2♌34 | 2°42 | 1♐ 4 | 2°32 | 11°44 | 11°26 | 17° 2 | 0°55 | 0°45 | 21° 3 | 22°25 | 23°35 | 29° 2 | S 5 | | | | | | | | |
| M 6 | 17 0 13 | 16°11'45 | 14°58 | 4°28 | 2°18 | 3°12 | 11°49 | 11°30 | 17° 2 | 0°56 | 0°46 | 20°55 | 22°21 | 23°41 | 28°59 | M 6 | | | | | | | | |
| T 7 | 17 4 9 | 17° 9'20 | 27° 9 | 6°10 | 3°31 | 3°53 | 11°54 | 11°35 | 17° 1 | 0°56 | 0°47 | 20°50 | 22°18 | 23°48 | 28°57 | T 7 | | | | | | | | |
| W 8 | 17 8 6 | 18° 6'55 | 9♌ 8 | 7°50 | 4°45 | 4°33 | 12° 0 | 11°39 | 17° 0 | 0°57 | 0°48 | 20°47 | 22°15 | 23°55 | 28°55 | W 8 | | | | | | | | |
| T 9 | 17 12 2 | 19° 4'28 | 21° 0 | 9°27 | 5°58 | 5°13 | 12° 5 | 11°43 | 16°59 | 0°58 | 0°49 | 20°D47 | 22°12 | 24° 1 | 28°54 | T 9 | | | | | | | | |
| F 10 | 17 15 59 | 20° 2'00 | 2♌48 | 11° 1 | 7°11 | 5°53 | 12°11 | 11°48 | 16°58 | 0°59 | 0°50 | 20°47 | 22° 9 | 24° 8 | 28°52 | F 10 | | | | | | | | |
| S 11 | 17 19 56 | 20°59'31 | 14°37 | 12°32 | 8°25 | 6°34 | 12°17 | 11°52 | 16°57 | 1° 0 | 0°51 | 20°48 | 22° 6 | 24°14 | 28°50 | S 11 | | | | | | | | |
| S 12 | 17 23 52 | 21°57'02 | 26°34 | 14° 0 | 9°38 | 7°14 | 12°23 | 11°56 | 16°56 | 1° 1 | 0°52 | 20°R48 | 22° 2 | 24°21 | 28°49 | S 12 | | | | | | | | |
| M13 | 17 27 49 | 22°54'32 | 8♎43 | 15°24 | 10°52 | 7°54 | 12°29 | 12° 0 | 16°55 | 1° 2 | 0°53 | 20°47 | 21°59 | 24°28 | 28°47 | M13 | | | | | | | | |
| T 14 | 17 31 45 | 23°52'01 | 21°10 | 16°46 | 12° 5 | 8°34 | 12°36 | 12° 4 | 16°54 | 1° 3 | 0°54 | 20°43 | 21°56 | 24°34 | 28°46 | T 14 | | | | | | | | |
| W15 | 17 35 42 | 24°49'30 | 3♌57 | 18° 5 | 13°19 | 9°14 | 12°42 | 12° 7 | 16°53 | 1° 4 | 0°55 | 20°38 | 21°53 | 24°41 | 28°45 | W15 | | | | | | | | |
| T 16 | 17 39 38 | 25°46'58 | 17° 8 | 19°20 | 14°32 | 9°54 | 12°49 | 12°11 | 16°52 | 1° 5 | 0°56 | 20°30 | 21°50 | 24°48 | 28°43 | T 16 | | | | | | | | |
| F 17 | 17 43 35 | 26°44'25 | 0♐44 | 20°33 | 15°46 | 10°34 | 12°56 | 12°15 | 16°51 | 1° 7 | 0°57 | 20°22 | 21°47 | 24°54 | 28°42 | F 17 | | | | | | | | |
| S 18 | 17 47 31 | 27°41'52 | 14°43 | 21°41 | 16°59 | 11°14 | 13° 3 | 12°18 | 16°49 | 1° 8 | 0°58 | 20°13 | 21°43 | 25° 1 | 28°42 | S 18 | | | | | | | | |
| S 19 | 17 51 28 | 28°39'18 | 29° 1 | 22°47 | 18°13 | 11°54 | 13°10 | 12°22 | 16°48 | 1° 9 | 0°59 | 20° 6 | 21°40 | 25° 8 | 28°41 | S 19 | | | | | | | | |
| M20 | 17 55 25 | 29°36'43 | 13♌33 | 23°49 | 19°26 | 12°34 | 13°17 | 12°25 | 16°47 | 1°10 | 0°59 | 19°59 | 21°37 | 25°14 | 28°40 | M20 | | | | | | | | |
| T 21 | 17 59 21 | 0♃34'07 | 28°11 | 24°48 | 20°40 | 13°14 | 13°24 | 12°28 | 16°45 | 1°12 | 1° 0 | 19°55 | 21°34 | 25°21 | 28°39 | T 21 | | | | | | | | |
| W22 | 18 3 18 | 1°31'31 | 12♌50 | 25°43 | 21°53 | 13°53 | 13°31 | 12°31 | 16°44 | 1°13 | 1° 1 | 19°54 | 21°31 | 25°28 | 28°39 | W22 | | | | | | | | |
| T 23 | 18 7 14 | 2°28'53 | 27°24 | 26°35 | 23° 7 | 14°33 | 13°39 | 12°35 | 16°42 | 1°14 | 1° 2 | 19°D54 | 21°28 | 25°34 | 28°39 | T 23 | | | | | | | | |
| F 24 | 18 11 11 | 3°26'14 | 11♍47 | 27°23 | 24°21 | 15°13 | 13°47 | 12°38 | 16°41 | 1°15 | 1° 3 | 19°55 | 21°24 | 25°41 | 28°38 | F 24 | | | | | | | | |
| S 25 | 18 15 7 | 4°23'35 | 25°58 | 28° 6 | 25°34 | 15°53 | 13°54 | 12°40 | 16°39 | 1°17 | 1° 3 | 19°56 | 21°21 | 25°47 | 28°38 | S 25 | | | | | | | | |
| S 26 | 18 19 4 | 5°20'54 | 9♌56 | 28°46 | 26°48 | 16°33 | 14° 2 | 12°43 | 16°38 | 1°18 | 1° 4 | 19°R56 | 21°18 | 25°54 | 28°D38 | S 26 | | | | | | | | |
| M27 | 18 23 0 | 6°18'13 | 23°39 | 29°22 | 28° 1 | 17°12 | 14°10 | 12°46 | 16°36 | 1°20 | 1° 5 | 19°54 | 21°15 | 26° 1 | 28°38 | M27 | | | | | | | | |
| T 28 | 18 26 57 | 7°15'31 | 7♎ 9 | 29°54 | 29°15 | 17°52 | 14°19 | 12°49 | 16°34 | 1°21 | 1° 6 | 19°51 | 21°12 | 26° 7 | 28°38 | T 28 | | | | | | | | |
| W29 | 18 30 54 | 8°12'48 | 20°24 | 0♎22 | 0♄28 | 18°31 | 14°27 | 12°51 | 16°33 | 1°23 | 1° 6 | 19°46 | 21° 8 | 26°14 | 28°39 | W29 | | | | | | | | |
| T 30 | 18 34 50 | 9♌10'04 | 3♌26 | 0♎45 | 1♄42 | 19♌11 | 14♍35 | 12♎54 | 16♏31 | 1♍24 | 1♃ 7 | 19♏40 | 21♓ 5 | 26♓21 | 28♌39 | T 30 | | | | | | | | |

Delta T = 19m16s

ASTRODIENST EPHEMERIS for the year 2585
geocentric

JULY 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|------|---|-----|
| F 1 | 18 38 47 | 10♄ 7'20 | 16♌ 15 | 1♉ 4 | 2♊ 55 | 19♄ 51 | 14♎ 44 | 12♏ 56 | 16°R29 | 1♎ 26 | 1♃ 7 | 19°R33 | 21♋ 2 | 26♌ 27 | 28♌ 40 | F 1 | | |
| S 2 | 18 42 43 | 11° 4'35 | 28°51 | 1°18 | 4° 9 | 20°30 | 14°52 | 12°58 | 16♌ 27 | 1°27 | 1° 8 | 19♌ 27 | 20°59 | 26°34 | 28°40 | S 2 | | |
| S 3 | 18 46 40 | 12° 1'50 | 11♌ 15 | 1°27 | 5°23 | 21°10 | 15° 1 | 13° 0 | 16°26 | 1°29 | 1° 9 | 19°21 | 20°56 | 26°41 | 28°41 | S 3 | | |
| M 4 | 18 50 36 | 12°59'05 | 23°27 | 1°32 | 6°36 | 21°49 | 15°10 | 13° 3 | 16°24 | 1°30 | 1° 9 | 19°17 | 20°53 | 26°47 | 28°42 | M 4 | | |
| T 5 | 18 54 33 | 13°56'19 | 5♌ 29 | 1°R33 | 7°50 | 22°28 | 15°19 | 13° 5 | 16°22 | 1°32 | 1°10 | 19°14 | 20°49 | 26°54 | 28°43 | T 5 | | |
| W 6 | 18 58 30 | 14°53'33 | 17°24 | 1°29 | 9° 3 | 23° 8 | 15°28 | 13° 6 | 16°20 | 1°33 | 1°10 | 19°D13 | 20°46 | 27° 1 | 28°44 | W 6 | | |
| T 7 | 19 2 26 | 15°50'47 | 29°13 | 1°20 | 10°17 | 23°47 | 15°37 | 13° 8 | 16°18 | 1°35 | 1°11 | 19°14 | 20°43 | 27° 7 | 28°45 | T 7 | | |
| F 8 | 19 6 23 | 16°48'00 | 11♋ 0 | 1° 7 | 11°31 | 24°27 | 15°46 | 13°10 | 16°16 | 1°37 | 1°11 | 19°15 | 20°40 | 27°14 | 28°46 | F 8 | | |
| S 9 | 19 10 19 | 17°45'14 | 22°50 | 0°50 | 12°44 | 25° 6 | 15°55 | 13°11 | 16°14 | 1°38 | 1°12 | 19°17 | 20°37 | 27°21 | 28°48 | S 9 | | |
| S 10 | 19 14 16 | 18°42'28 | 4♏ 47 | 0°29 | 13°58 | 25°45 | 16° 5 | 13°13 | 16°12 | 1°40 | 1°12 | 19°18 | 20°33 | 27°27 | 28°49 | S 10 | | |
| M 11 | 19 18 12 | 19°39'41 | 16°55 | 0° 4 | 15°12 | 26°25 | 16°14 | 13°14 | 16°10 | 1°42 | 1°13 | 19°R19 | 20°30 | 27°34 | 28°51 | M 11 | | |
| T 12 | 19 22 9 | 20°36'55 | 29°20 | 29♄ 36 | 16°25 | 27° 4 | 16°24 | 13°16 | 16° 8 | 1°44 | 1°13 | 19°19 | 20°27 | 27°40 | 28°53 | T 12 | | |
| W 13 | 19 26 5 | 21°34'10 | 12♃ 7 | 29° 5 | 17°39 | 27°43 | 16°34 | 13°17 | 16° 6 | 1°45 | 1°14 | 19°17 | 20°24 | 27°47 | 28°55 | W 13 | | |
| T 14 | 19 30 2 | 22°31'24 | 25°17 | 28°31 | 18°53 | 28°22 | 16°43 | 13°18 | 16° 4 | 1°47 | 1°14 | 19°15 | 20°21 | 27°54 | 28°57 | T 14 | | |
| F 15 | 19 33 59 | 23°28'39 | 8♂ 54 | 27°56 | 20° 7 | 29° 1 | 16°53 | 13°19 | 16° 2 | 1°49 | 1°14 | 19°12 | 20°18 | 28° 0 | 28°59 | F 15 | | |
| S 16 | 19 37 55 | 24°25'54 | 22°57 | 27°19 | 21°20 | 29°41 | 17° 3 | 13°20 | 15°59 | 1°51 | 1°15 | 19° 8 | 20°14 | 28° 7 | 29° 1 | S 16 | | |
| S 17 | 19 41 52 | 25°23'09 | 7♄ 24 | 26°41 | 22°34 | 0♉ 20 | 17°13 | 13°21 | 15°57 | 1°53 | 1°15 | 19° 5 | 20°11 | 28°14 | 29° 3 | S 17 | | |
| M 18 | 19 45 48 | 26°20'25 | 22°10 | 26° 3 | 23°48 | 0°59 | 17°24 | 13°21 | 15°55 | 1°55 | 1°15 | 19° 2 | 20° 8 | 28°20 | 29° 5 | M 18 | | |
| T 19 | 19 49 45 | 27°17'40 | 7♁ 7 | 25°26 | 25° 2 | 1°38 | 17°34 | 13°22 | 15°53 | 1°57 | 1°15 | 19° 1 | 20° 5 | 28°27 | 29° 8 | T 19 | | |
| W 20 | 19 53 41 | 28°14'56 | 22° 7 | 24°50 | 26°15 | 2°17 | 17°44 | 13°22 | 15°51 | 1°58 | 1°16 | 19°D 1 | 20° 2 | 28°34 | 29°11 | W 20 | | |
| T 21 | 19 57 38 | 29°12'12 | 7♎ 2 | 24°15 | 27°29 | 2°56 | 17°54 | 13°23 | 15°48 | 2° 0 | 1°16 | 19° 1 | 19°59 | 28°40 | 29°13 | T 21 | | |
| F 22 | 20 1 34 | 0♉ 9'27 | 21°45 | 23°43 | 28°43 | 3°35 | 18° 5 | 13°23 | 15°46 | 2° 2 | 1°16 | 19° 2 | 19°55 | 28°47 | 29°16 | F 22 | | |
| S 23 | 20 5 31 | 1° 6'43 | 6♁ 10 | 23°14 | 29°57 | 4°14 | 18°16 | 13°23 | 15°44 | 2° 4 | 1°16 | 19° 4 | 19°52 | 28°54 | 29°19 | S 23 | | |
| S 24 | 20 9 28 | 2° 3'58 | 20°16 | 22°49 | 1♉ 11 | 4°53 | 18°26 | 13°R23 | 15°41 | 2° 6 | 1°16 | 19° 4 | 19°49 | 29° 0 | 29°22 | S 24 | | |
| M 25 | 20 13 24 | 3° 1'14 | 4♎ 0 | 22°28 | 2°25 | 5°32 | 18°37 | 13°23 | 15°39 | 2° 8 | 1°17 | 19°R 5 | 19°46 | 29° 7 | 29°25 | M 25 | | |
| T 26 | 20 17 21 | 3°58'29 | 17°24 | 22°11 | 3°38 | 6°11 | 18°48 | 13°23 | 15°37 | 2°10 | 1°17 | 19° 4 | 19°43 | 29°14 | 29°28 | T 26 | | |
| W 27 | 20 21 17 | 4°55'45 | 0♌ 28 | 21°59 | 4°52 | 6°50 | 18°59 | 13°23 | 15°34 | 2°12 | 1°17 | 19° 3 | 19°39 | 29°20 | 29°32 | W 27 | | |
| T 28 | 20 25 14 | 5°53'01 | 13°15 | 21°52 | 6° 6 | 7°29 | 19°10 | 13°23 | 15°32 | 2°14 | 1°17 | 19° 2 | 19°36 | 29°27 | 29°35 | T 28 | | |
| F 29 | 20 29 10 | 6°50'17 | 25°47 | 21°D50 | 7°20 | 8° 7 | 19°21 | 13°22 | 15°30 | 2°16 | 1°17 | 19° 0 | 19°33 | 29°33 | 29°39 | F 29 | | |
| S 30 | 20 33 7 | 7°47'34 | 8♃ 7 | 21°54 | 8°34 | 8°46 | 19°32 | 13°22 | 15°27 | 2°18 | 1°17 | 18°58 | 19°30 | 29°40 | 29°42 | S 30 | | |
| S 31 | 20 37 3 | 8♌ 44'50 | 20♌ 16 | 22° 3 | 9♌ 48 | 9♌ 25 | 19♎ 43 | 13♏ 21 | 15♌ 25 | 2♎ 20 | 1°R17 | 18♌ 57 | 19♌ 27 | 29♌ 47 | 29♌ 46 | S 31 | | |

Delta T = 19m16s

AUGUST 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|------|---|-----|
| M 1 | 20 41 0 | 9♌ 42'08 | 2♋ 16 | 22♄ 18 | 11♉ 2 | 10♉ 4 | 19♎ 54 | 13°R20 | 15°R23 | 2♎ 22 | 1°R17 | 18°R56 | 19♌ 24 | 29♌ 53 | 29♌ 50 | M 1 | | |
| T 2 | 20 44 57 | 10°39'25 | 14°10 | 22°39 | 12°16 | 10°43 | 20° 5 | 13°V20 | 15♌ 20 | 2°25 | 1♃ 17 | 18°D56 | 19°20 | 0♋ 0 | 29°54 | T 2 | | |
| W 3 | 20 48 53 | 11°36'44 | 26° 0 | 23° 6 | 13°29 | 11°21 | 20°17 | 13°19 | 15°18 | 2°27 | 1°17 | 18♌ 56 | 19°17 | 0° 7 | 29°58 | W 3 | | |
| T 4 | 20 52 50 | 12°34'02 | 7♋ 48 | 23°39 | 14°43 | 12° 0 | 20°28 | 13°18 | 15°15 | 2°29 | 1°17 | 18°56 | 19°14 | 0°13 | 0♎ 2 | T 4 | | |
| F 5 | 20 56 46 | 13°31'22 | 19°36 | 24°18 | 15°57 | 12°39 | 20°40 | 13°16 | 15°13 | 2°31 | 1°17 | 18°57 | 19°11 | 0°20 | 0° 6 | F 5 | | |
| S 6 | 21 0 43 | 14°28'42 | 1°V28 | 25° 3 | 17°11 | 13°17 | 20°51 | 13°15 | 15°11 | 2°33 | 1°17 | 18°57 | 19° 8 | 0°27 | 0°10 | S 6 | | |
| S 7 | 21 4 39 | 15°26'04 | 13°27 | 25°53 | 18°25 | 13°56 | 21° 3 | 13°14 | 15° 8 | 2°35 | 1°16 | 18°58 | 19° 5 | 0°33 | 0°15 | S 7 | | |
| M 8 | 21 8 36 | 16°23'26 | 25°37 | 26°49 | 19°39 | 14°35 | 21°14 | 13°13 | 15° 6 | 2°37 | 1°16 | 18°58 | 19° 1 | 0°40 | 0°19 | M 8 | | |
| T 9 | 21 12 32 | 17°20'49 | 8♃ 2 | 27°51 | 20°53 | 15°13 | 21°26 | 13°11 | 15° 3 | 2°39 | 1°16 | 18°58 | 18°58 | 0°47 | 0°24 | T 9 | | |
| W 10 | 21 16 29 | 18°18'14 | 20°45 | 28°58 | 22° 7 | 15°52 | 21°38 | 13° 9 | 15° 1 | 2°42 | 1°16 | 18°R58 | 18°55 | 0°53 | 0°28 | W 10 | | |
| T 11 | 21 20 26 | 19°15'39 | 3♂ 11 | 0♉ 11 | 23°21 | 16°31 | 21°50 | 13° 8 | 14°59 | 2°44 | 1°16 | 18°D58 | 18°52 | 1° 0 | 0°33 | T 11 | | |
| F 12 | 21 24 22 | 20°13'06 | 17°21 | 1°29 | 24°35 | 17° 9 | 22° 1 | 13° 6 | 14°56 | 2°46 | 1°15 | 18°58 | 18°49 | 1° 7 | 0°38 | F 12 | | |
| S 13 | 21 28 19 | 21°10'34 | 1♄ 19 | 2°52 | 25°49 | 17°48 | 22°13 | 13° 4 | 14°54 | 2°48 | 1°15 | 18°58 | 18°45 | 1°13 | 0°43 | S 13 | | |
| S 14 | 21 32 15 | 22° 8'03 | 15°42 | 4°20 | 27° 3 | 18°26 | 22°25 | 13° 2 | 14°51 | 2°50 | 1°15 | 18°59 | 18°42 | 1°20 | 0°48 | S 14 | | |
| M 15 | 21 36 12 | 23° 5'34 | 0♉ 27 | 5°52 | 28°17 | 19° 5 | 22°37 | 13° 0 | 14°49 | 2°52 | 1°15 | 18°59 | 18°39 | 1°26 | 0°53 | M 15 | | |
| T 16 | 21 40 8 | 24° 3'05 | 15°29 | 7°29 | 29°31 | 19°43 | 22°49 | 12°58 | 14°47 | 2°55 | 1°14 | 18°R59 | 18°36 | 1°33 | 0°58 | T 16 | | |
| W 17 | 21 44 5 | 25° 0'37 | 0♎ 46 | 9° 9 | 0♎ 46 | 20°22 | 23° 2 | 12°56 | 14°44 | 2°57 | 1°14 | 18°59 | 18°33 | 1°40 | 1° 3 | W 17 | | |
| T 18 | 21 48 1 | 25°58'10 | 15°49 | 10°54 | 2° 0 | 21° 0 | 23°14 | 12°53 | 14°42 | 2°59 | 1°14 | 18°59 | 18°30 | 1°46 | 1° 9 | T 18 | | |
| F 19 | 21 51 58 | 26°55'44 | 0♌ 48 | 12°42 | 3°14 | 21°39 | 23°26 | 12°51 | 14°40 | 3° 1 | 1°13 | 18°58 | 18°26 | 1°53 | 1°14 | F 19 | | |
| S 20 | 21 55 55 | 27°53'19 | 15°30 | 14°32 | 4°28 | 22°17 | 23°38 | 12°48 | 14°37 | 3° 4 | 1°13 | 18°57 | 18°23 | 2° 0 | 1°20 | S 20 | | |
| S 21 | 21 59 51 | 28°50'55 | 29°48 | 16°26 | 5°42 | 22°56 | 23°50 | 12°46 | 14°35 | 3° 6 | 1°12 | 18°56 | 18°20 | 2° 6 | 1°25 | S 21 | | |
| M 22 | 22 3 48 | 29°48'32 | 13♎ 40 | 18°22 | 6°56 | 23°34 | 24° 3 | 12°43 | 14°33 | 3° 8 | 1°12 | 18°55 | 18°17 | 2°13 | 1°31 | M 22 | | |
| T 23 | 22 7 44 | 0♎ 46'10 | 27° 6 | 20°19 | 8°10 | 24°13 | 24°15 | 12°40 | 14°31 | 3°10 | 1°11 | 18°D55 | 18°14 | 2°20 | 1°37 | T 23 | | |
| W 24 | 22 11 41 | 1°43'49 | 10♌ 8 | 22°18 | 9°24 | 24°51 | 24°28 | 12°37 | 14°28 | 3°12 | 1°11 | 18°55 | 18°11 | 2°26 | 1°43 | W 24 | | |
| T 25 | 22 15 37 | 2°41'28 | 22°48 | 24°19 | 10°38 | 25°29 | 24°40 | 12°34 | 14°26 | 3°15 | 1°10 | 18°55 | 18° 7 | 2°33 | 1°48 | T 25 | | |
| F 26 | 22 19 34 | 3°39'09 | 5♃ 11 | 26°20 | 11°53 | 26° 8 | 24°52 | 12°31 | 14°24 | 3°17 | 1°10 | 18°57 | 18° 4 | 2°40 | 1°54 | F 26 | | |
| S 27 | 22 23 30 | 4°36'50 | 17°20 | 28°21 | 13° 7 | 26°46 | 25° 5 | 12°28 | 14°22 | 3°19 | 1° 9 | 18°58 | 18° 1 | 2°46 | 2° 0 | S 27 | | |
| S 28 | 22 27 27 | 5°34'33 | 29°19 | 0♎ 23 | 14°21 | 27°24 | 25°17 | 12°25 | 14°19 | 3°21 | 1° 9 | 18°59 | 17°58 | 2°53 | 2° 7 | S 28 | | |
| M 29 | 22 31 24 | 6°32'17 | 11♌ 12 | 2°24 | 15°35 | 28° 3 | 25°30 | 12°22 | 14°17 | 3°24 | 1° 8 | 19° 0 | 17°55 | 3° 0 | 2°13 | M 29 | | |
| T 30 | 22 35 20 | 7°30'02 | 23° 1 | 4°25 | 16°49 | 28°41 | 25°43 | 12°19 | 14°15 | 3°26 | 1° 8 | 19°R 0 | 17°51 | 3° 6 | 2°19 | T 30 | | |
| W 31 | 22 39 17 | 8♎ 27'48 | 4♋ 49 | 6♎ 26 | 18♎ 3 | 29♉ 19 | 25♎ 55 | 12♏ 15 | 14♌ 13 | 3♎ 28 | 1♃ 7 | 18♌ 59 | 17♌ 48 | 3♋ 13 | 2♎ 25 | W 31 | | |

Delta T = 19m16s

ASTRODIENST EPHEMERIS for the year 2585
geocentric

SEPTEMBER 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|-------|-------|-------|-------|--------|--------|------|-------|--------|--------|------|------|------|-----|
| T 1 | 22 43 13 | 9♎25'36 | 16♋38 | 8♎25 | 19♎17 | 29♏58 | 26♎8 | 12°R12 | 14°R11 | 3♎30 | 1°R 6 | 18°R58 | 17♋45 | 3♋19 | 2♎32 | T 1 | |
| F 2 | 22 47 10 | 10°23'25 | 28°30 | 10°25 | 20°32 | 0♎36 | 26°21 | 12°Y 8 | 14°R 9 | 3°32 | 1♉6 | 18°R55 | 17°42 | 3°26 | 2°38 | F 2 | |
| S 3 | 22 51 6 | 11°21'15 | 10°Y29 | 12°23 | 21°46 | 1°14 | 26°33 | 12° 5 | 14° 7 | 3°35 | 1° 5 | 18°51 | 17°39 | 3°33 | 2°45 | S 3 | |
| S 4 | 22 55 3 | 12°19'07 | 22°34 | 14°20 | 23° 0 | 1°52 | 26°46 | 12° 1 | 14° 5 | 3°37 | 1° 4 | 18°48 | 17°36 | 3°39 | 2°51 | S 4 | |
| M 5 | 22 58 59 | 13°17'01 | 4♉50 | 16°16 | 24°14 | 2°31 | 26°59 | 11°57 | 14° 3 | 3°39 | 1° 4 | 18°44 | 17°32 | 3°46 | 2°58 | M 5 | |
| T 6 | 23 2 56 | 14°14'57 | 17°19 | 18°10 | 25°28 | 3° 9 | 27°12 | 11°53 | 14° 1 | 3°41 | 1° 3 | 18°41 | 17°29 | 3°53 | 3° 5 | T 6 | |
| W 7 | 23 6 53 | 15°12'54 | 0♐3 | 20° 4 | 26°42 | 3°47 | 27°24 | 11°50 | 13°59 | 3°43 | 1° 2 | 18°39 | 17°26 | 3°59 | 3°11 | W 7 | |
| T 8 | 23 10 49 | 16°10'53 | 13° 6 | 21°56 | 27°57 | 4°25 | 27°37 | 11°46 | 13°57 | 3°46 | 1° 2 | 18°D38 | 17°23 | 4° 6 | 3°18 | T 8 | |
| F 9 | 23 14 46 | 17° 8'55 | 26°29 | 23°47 | 29°11 | 5° 3 | 27°50 | 11°42 | 13°55 | 3°48 | 1° 1 | 18°38 | 17°20 | 4°13 | 3°25 | F 9 | |
| S 10 | 23 18 42 | 18° 6'58 | 10♉16 | 25°37 | 0♎25 | 5°42 | 28° 3 | 11°38 | 13°53 | 3°50 | 1° 0 | 18°39 | 17°17 | 4°19 | 3°32 | S 10 | |
| S 11 | 23 22 39 | 19° 5'02 | 24°26 | 27°26 | 1°39 | 6°20 | 28°16 | 11°34 | 13°51 | 3°52 | 0°59 | 18°41 | 17°13 | 4°26 | 3°39 | S 11 | |
| M12 | 23 26 35 | 20° 3'09 | 9♏0 | 29°13 | 2°53 | 6°58 | 28°29 | 11°29 | 13°49 | 3°54 | 0°58 | 18°42 | 17°10 | 4°33 | 3°46 | M12 | |
| T 13 | 23 30 32 | 21° 1'18 | 23°52 | 0♎59 | 4° 8 | 7°36 | 28°42 | 11°25 | 13°48 | 3°56 | 0°58 | 18°R42 | 17° 7 | 4°39 | 3°53 | T 13 | |
| W14 | 23 34 28 | 21°59'28 | 8♎57 | 2°44 | 5°22 | 8°14 | 28°54 | 11°21 | 13°46 | 3°59 | 0°57 | 18°41 | 17° 4 | 4°46 | 4° 1 | W14 | |
| T 15 | 23 38 25 | 22°57'40 | 24° 7 | 4°28 | 6°36 | 8°52 | 29° 7 | 11°17 | 13°44 | 4° 1 | 0°56 | 18°38 | 17° 1 | 4°53 | 4° 8 | T 15 | |
| F 16 | 23 42 22 | 23°55'54 | 9♎11 | 6°11 | 7°50 | 9°30 | 29°20 | 11°12 | 13°43 | 4° 3 | 0°55 | 18°33 | 16°57 | 4°59 | 4°15 | F 16 | |
| S 17 | 23 46 18 | 24°54'09 | 24° 1 | 7°52 | 9° 4 | 10° 9 | 29°33 | 11° 8 | 13°41 | 4° 5 | 0°54 | 18°28 | 16°54 | 5° 6 | 4°23 | S 17 | |
| S 18 | 23 50 15 | 25°52'26 | 8♎29 | 9°32 | 10°19 | 10°47 | 29°46 | 11° 4 | 13°39 | 4° 7 | 0°53 | 18°23 | 16°51 | 5°13 | 4°30 | S 18 | |
| M19 | 23 54 11 | 26°50'45 | 22°30 | 11°11 | 11°33 | 11°25 | 29°59 | 10°59 | 13°38 | 4° 9 | 0°52 | 18°18 | 16°48 | 5°19 | 4°37 | M19 | |
| T 20 | 23 58 8 | 27°49'05 | 6♋3 | 12°49 | 12°47 | 12° 3 | 0♎12 | 10°55 | 13°36 | 4°11 | 0°51 | 18°14 | 16°45 | 5°26 | 4°45 | T 20 | |
| W21 | 0 2 4 | 28°47'27 | 19° 8 | 14°26 | 14° 1 | 12°41 | 0°25 | 10°50 | 13°35 | 4°13 | 0°50 | 18°12 | 16°42 | 5°33 | 4°53 | W21 | |
| T 22 | 0 6 1 | 29°45'50 | 1♉48 | 16° 2 | 15°15 | 13°19 | 0°38 | 10°46 | 13°33 | 4°15 | 0°49 | 18°D12 | 16°38 | 5°39 | 5° 0 | T 22 | |
| F 23 | 0 9 57 | 0♎44'15 | 14° 9 | 17°36 | 16°30 | 13°57 | 0°51 | 10°41 | 13°32 | 4°17 | 0°49 | 18°12 | 16°35 | 5°46 | 5° 8 | F 23 | |
| S 24 | 0 13 54 | 1°42'41 | 26°14 | 19°10 | 17°44 | 14°35 | 1° 4 | 10°37 | 13°31 | 4°19 | 0°48 | 18°14 | 16°32 | 5°52 | 5°15 | S 24 | |
| S 25 | 0 17 51 | 2°41'09 | 8♋8 | 20°42 | 18°58 | 15°13 | 1°17 | 10°32 | 13°29 | 4°21 | 0°47 | 18°15 | 16°29 | 5°59 | 5°23 | S 25 | |
| M26 | 0 21 47 | 3°39'38 | 19°57 | 22°14 | 20°12 | 15°51 | 1°30 | 10°28 | 13°28 | 4°23 | 0°46 | 18°R16 | 16°26 | 6° 6 | 5°31 | M26 | |
| T 27 | 0 25 44 | 4°38'09 | 1♋44 | 23°44 | 21°26 | 16°29 | 1°43 | 10°23 | 13°27 | 4°25 | 0°45 | 18°15 | 16°23 | 6°12 | 5°39 | T 27 | |
| W28 | 0 29 40 | 5°36'42 | 13°33 | 25°13 | 22°41 | 17° 7 | 1°56 | 10°18 | 13°26 | 4°27 | 0°44 | 18°11 | 16°19 | 6°19 | 5°47 | W28 | |
| T 29 | 0 33 37 | 6°35'16 | 25°27 | 26°41 | 23°55 | 17°45 | 2° 9 | 10°14 | 13°25 | 4°29 | 0°43 | 18° 6 | 16°16 | 6°26 | 5°55 | T 29 | |
| F 30 | 0 37 33 | 7♎33'53 | 7°Y27 | 28♎8 | 25♎9 | 18♎23 | 2♎22 | 10°Y 9 | 13°R23 | 4♎31 | 0♎41 | 17°R59 | 16°R13 | 6♎32 | 6♎2 | F 30 | |

Delta T = 19m17s

OCTOBER 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|-------|------|--------|--------|------|-------|--------|--------|------|-------|------|
| S 1 | 0 41 30 | 8♎32'31 | 19°Y36 | 29♎34 | 26♎23 | 19♎1 | 2♎35 | 10°R 4 | 13°R22 | 4♎33 | 0°R40 | 17°R50 | 16°R10 | 6♎39 | 6♎10 | S 1 |
| S 2 | 0 45 26 | 9°31'12 | 1♉55 | 0♎59 | 27°37 | 19°39 | 2°48 | 10°Y 0 | 13°R21 | 4°35 | 0♉39 | 17°R40 | 16° 7 | 6°46 | 6°18 | S 2 |
| M 3 | 0 49 23 | 10°29'54 | 14°24 | 2°23 | 28°51 | 20°17 | 3° 1 | 9°55 | 13°20 | 4°37 | 0°38 | 17°31 | 16° 3 | 6°52 | 6°26 | M 3 |
| T 4 | 0 53 19 | 11°28'39 | 27° 4 | 3°46 | 0♎6 | 20°55 | 3°14 | 9°50 | 13°19 | 4°39 | 0°37 | 17°22 | 16° 0 | 6°59 | 6°35 | T 4 |
| W 5 | 0 57 16 | 12°27'25 | 9♐57 | 5° 7 | 1°20 | 21°33 | 3°26 | 9°46 | 13°19 | 4°41 | 0°36 | 17°16 | 15°57 | 7° 6 | 6°43 | W 5 |
| T 6 | 1 1 13 | 13°26'14 | 23° 3 | 6°27 | 2°34 | 22°11 | 3°39 | 9°41 | 13°18 | 4°42 | 0°35 | 17°12 | 15°54 | 7°12 | 6°51 | T 6 |
| F 7 | 1 5 9 | 14°25'06 | 6♉26 | 7°46 | 3°48 | 22°49 | 3°52 | 9°36 | 13°17 | 4°44 | 0°34 | 17°10 | 15°51 | 7°19 | 6°59 | F 7 |
| S 8 | 1 9 6 | 15°23'59 | 20° 5 | 9° 4 | 5° 2 | 23°27 | 4° 5 | 9°32 | 13°16 | 4°46 | 0°33 | 17°D 9 | 15°48 | 7°26 | 7° 7 | S 8 |
| S 9 | 1 13 2 | 16°22'55 | 4♏3 | 10°20 | 6°16 | 24° 5 | 4°18 | 9°27 | 13°16 | 4°48 | 0°32 | 17°10 | 15°44 | 7°32 | 7°15 | S 9 |
| M10 | 1 16 59 | 17°21'53 | 18°19 | 11°35 | 7°31 | 24°42 | 4°31 | 9°23 | 13°15 | 4°50 | 0°31 | 17°R10 | 15°41 | 7°39 | 7°24 | M10 |
| T 11 | 1 20 55 | 18°20'53 | 2♎52 | 12°48 | 8°45 | 25°20 | 4°44 | 9°18 | 13°14 | 4°51 | 0°30 | 17° 9 | 15°38 | 7°46 | 7°32 | T 11 |
| W12 | 1 24 52 | 19°19'55 | 17°39 | 13°59 | 9°59 | 25°58 | 4°56 | 9°13 | 13°14 | 4°53 | 0°28 | 17° 6 | 15°35 | 7°52 | 7°40 | W12 |
| T 13 | 1 28 48 | 20°19'00 | 2♎34 | 15° 9 | 11°13 | 26°36 | 5° 9 | 9° 9 | 13°13 | 4°55 | 0°27 | 17° 0 | 15°32 | 7°59 | 7°49 | T 13 |
| F 14 | 1 32 45 | 21°18'07 | 17°27 | 16°17 | 12°27 | 27°14 | 5°22 | 9° 4 | 13°13 | 4°56 | 0°26 | 16°52 | 15°28 | 8° 6 | 7°57 | F 14 |
| S 15 | 1 36 42 | 22°17'15 | 2♎12 | 17°23 | 13°41 | 27°52 | 5°35 | 9° 0 | 13°12 | 4°58 | 0°25 | 16°42 | 15°25 | 8°12 | 8° 5 | S 15 |
| S 16 | 1 40 38 | 23°16'26 | 16°38 | 18°27 | 14°55 | 28°30 | 5°47 | 8°55 | 13°12 | 5° 0 | 0°24 | 16°32 | 15°22 | 8°19 | 8°14 | S 16 |
| M17 | 1 44 35 | 24°15'39 | 0♎42 | 19°28 | 16°10 | 29° 8 | 6° 0 | 8°51 | 13°12 | 5° 1 | 0°23 | 16°22 | 15°19 | 8°26 | 8°22 | M17 |
| T 18 | 1 48 31 | 25°14'54 | 14°18 | 20°27 | 17°24 | 29°46 | 6°12 | 8°47 | 13°12 | 5° 3 | 0°22 | 16°14 | 15°16 | 8°32 | 8°31 | T 18 |
| W19 | 1 52 28 | 26°14'10 | 27°26 | 21°23 | 18°38 | 0♎23 | 6°25 | 8°42 | 13°11 | 5° 4 | 0°21 | 16° 8 | 15°13 | 8°39 | 8°39 | W19 |
| T 20 | 1 56 24 | 27°13'28 | 10♉10 | 22°15 | 19°52 | 1° 1 | 6°38 | 8°38 | 13°11 | 5° 6 | 0°19 | 16° 4 | 15° 9 | 8°45 | 8°47 | T 20 |
| F 21 | 2 0 21 | 28°12'48 | 22°31 | 23° 5 | 21° 6 | 1°39 | 6°50 | 8°34 | 13°11 | 5° 7 | 0°18 | 16° 3 | 15° 6 | 8°52 | 8°56 | F 21 |
| S 22 | 2 4 17 | 29°12'10 | 4♋36 | 23°51 | 22°20 | 2°17 | 7° 3 | 8°30 | 13°D11 | 5° 9 | 0°17 | 16°D 3 | 15° 3 | 8°59 | 9° 4 | S 22 |
| S 23 | 2 8 14 | 0♎11'33 | 16°31 | 24°33 | 23°34 | 2°55 | 7°15 | 8°25 | 13°11 | 5°10 | 0°16 | 16°R 3 | 15° 0 | 9° 5 | 9°13 | S 23 |
| M24 | 2 12 11 | 1°10'58 | 28°19 | 25°10 | 24°48 | 3°33 | 7°28 | 8°21 | 13°11 | 5°12 | 0°15 | 16° 2 | 14°57 | 9°12 | 9°21 | M24 |
| T 25 | 2 16 7 | 2°10'25 | 10♋7 | 25°42 | 26° 2 | 4°11 | 7°40 | 8°17 | 13°11 | 5°13 | 0°14 | 16° 0 | 14°54 | 9°19 | 9°30 | T 25 |
| W26 | 2 20 4 | 3° 9'53 | 21°59 | 26° 9 | 27°16 | 4°48 | 7°52 | 8°13 | 13°11 | 5°15 | 0°12 | 15°55 | 14°50 | 9°25 | 9°38 | W26 |
| T 27 | 2 24 0 | 4° 9'23 | 3°Y58 | 26°30 | 28°31 | 5°26 | 8° 5 | 8° 9 | 13°12 | 5°16 | 0°11 | 15°47 | 14°47 | 9°32 | 9°47 | T 27 |
| F 28 | 2 27 57 | 5° 8'55 | 16° 8 | 26°45 | 29°45 | 6° 4 | 8°17 | 8° 5 | 13°12 | 5°17 | 0°10 | 15°37 | 14°44 | 9°39 | 9°56 | F 28 |
| S 29 | 2 31 53 | 6° 8'30 | 28°30 | 26°53 | 0♎59 | 6°42 | 8°29 | 8° 2 | 13°12 | 5°19 | 0° 9 | 15°24 | 14°41 | 9°45 | 10° 4 | S 29 |
| S 30 | 2 35 50 | 7° 8'06 | 11♉5 | 26°R53 | 2°13 | 7°19 | 8°41 | 7°58 | 13°13 | 5°20 | 0° 8 | 15°11 | 14°38 | 9°52 | 10°13 | S 30 |
| M31 | 2 39 46 | 8♎7'44 | 23♉52 | 26♎46 | 3♎27 | 7♎57 | 8♎53 | 7°Y54 | 13°R13 | 5♎21 | 0♎7 | 14°R57 | 14°R34 | 9♎59 | 10♎21 | M31 |

Delta T = 19m17s

ASTRODIENST EPHEMERIS for the year 2585
geocentric

NOVEMBER 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|---------|---------|---------|--------|-------|-------|---------|--------|--------|---------|---------|--------|---------|------|-----|
| T 1 | 2 43 43 | 9♉ 7'24 | 6♊ 5'2 | 26°R29 | 4♋ 4'1 | 8♌ 3'5 | 9♍ 5 | 7°R50 | 13♎ 1'3 | 5♏ 2'2 | 0°R 6 | 14°R45 | 14♐ 3'1 | 10♑ 5 | 10♒ 3'0 | T 1 | |
| W 2 | 2 47 40 | 10° 7'06 | 20° 3 | 26♌ 4 | 5°55 | 9°13 | 9°17 | 7°Y47 | 13°14 | 5°23 | 0° 5 | 14♐ 3'6 | 14°28 | 10°12 | 10°38 | W 2 | |
| T 3 | 2 51 36 | 11° 6'51 | 3♌ 2'4 | 25°30 | 7° 9 | 9°51 | 9°29 | 7°43 | 13°15 | 5°25 | 0° 3 | 14°29 | 14°25 | 10°19 | 10°47 | T 3 | |
| F 4 | 2 55 33 | 12° 6'37 | 16°56 | 24°47 | 8°23 | 10°28 | 9°41 | 7°40 | 13°15 | 5°26 | 0° 2 | 14°25 | 14°22 | 10°25 | 10°56 | F 4 | |
| S 5 | 2 59 29 | 13° 6'26 | 0♌ 3'8 | 23°55 | 9°37 | 11° 6 | 9°53 | 7°37 | 13°16 | 5°27 | 0° 1 | 14°23 | 14°19 | 10°32 | 11° 4 | S 5 | |
| S 6 | 3 3 26 | 14° 6'17 | 14°31 | 22°56 | 10°51 | 11°44 | 10° 5 | 7°33 | 13°17 | 5°28 | 0° 0 | 14°23 | 14°15 | 10°39 | 11°13 | S 6 | |
| M 7 | 3 7 22 | 15° 6'10 | 28°36 | 21°49 | 12° 5 | 12°22 | 10°17 | 7°30 | 13°17 | 5°29 | 29°Y59 | 14°23 | 14°12 | 10°45 | 11°21 | M 7 | |
| T 8 | 3 11 19 | 16° 6'06 | 12♌ 5'1 | 20°36 | 13°19 | 12°59 | 10°28 | 7°27 | 13°18 | 5°30 | 29°58 | 14°21 | 14° 9 | 10°52 | 11°30 | T 8 | |
| W 9 | 3 15 15 | 17° 6'03 | 27°15 | 19°20 | 14°33 | 13°37 | 10°40 | 7°24 | 13°19 | 5°31 | 29°57 | 14°17 | 14° 6 | 10°59 | 11°38 | W 9 | |
| T 10 | 3 19 12 | 18° 6'03 | 11♌ 4'5 | 18° 2 | 15°46 | 14°15 | 10°52 | 7°21 | 13°20 | 5°32 | 29°56 | 14°10 | 14° 3 | 11° 5 | 11°47 | T 10 | |
| F 11 | 3 23 9 | 19° 6'05 | 26°15 | 16°45 | 17° 0 | 14°53 | 11° 3 | 7°18 | 13°21 | 5°33 | 29°55 | 14° 1 | 14° 0 | 11°12 | 11°55 | F 11 | |
| S 12 | 3 27 5 | 20° 6'08 | 10♌ 3'8 | 15°32 | 18°14 | 15°30 | 11°14 | 7°15 | 13°22 | 5°34 | 29°54 | 13°49 | 13°56 | 11°19 | 12° 4 | S 12 | |
| S 13 | 3 31 2 | 21° 6'14 | 24°50 | 14°24 | 19°28 | 16° 8 | 11°26 | 7°13 | 13°23 | 5°34 | 29°52 | 13°37 | 13°53 | 11°25 | 12°12 | S 13 | |
| M14 | 3 34 58 | 22° 6'22 | 8♌ 4'2 | 13°24 | 20°42 | 16°46 | 11°37 | 7°10 | 13°24 | 5°35 | 29°51 | 13°25 | 13°50 | 11°32 | 12°21 | M14 | |
| T 15 | 3 38 55 | 23° 6'31 | 22°13 | 12°33 | 21°56 | 17°24 | 11°48 | 7° 7 | 13°25 | 5°36 | 29°50 | 13°14 | 13°47 | 11°39 | 12°29 | T 15 | |
| W16 | 3 42 51 | 24° 6'42 | 5♌ 1'9 | 11°52 | 23°10 | 18° 1 | 12° 0 | 7° 5 | 13°26 | 5°37 | 29°49 | 13° 7 | 13°44 | 11°45 | 12°38 | W16 | |
| T 17 | 3 46 48 | 25° 6'54 | 18° 3 | 11°23 | 24°24 | 18°39 | 12°11 | 7° 3 | 13°28 | 5°37 | 29°48 | 13° 2 | 13°40 | 11°52 | 12°46 | T 17 | |
| F 18 | 3 50 44 | 26° 7'08 | 0♌ 2'6 | 11° 6 | 25°38 | 19°17 | 12°22 | 7° 0 | 13°29 | 5°38 | 29°47 | 12°59 | 13°37 | 11°59 | 12°55 | F 18 | |
| S 19 | 3 54 41 | 27° 7'23 | 12°32 | 11°D 0 | 26°52 | 19°54 | 12°33 | 6°58 | 13°30 | 5°39 | 29°46 | 12°D59 | 13°34 | 12° 5 | 13° 3 | S 19 | |
| S 20 | 3 58 38 | 28° 7'40 | 24°28 | 11° 6 | 28° 6 | 20°32 | 12°43 | 6°56 | 13°32 | 5°39 | 29°45 | 12°R59 | 13°31 | 12°12 | 13°12 | S 20 | |
| M21 | 4 2 34 | 29° 7'58 | 6♌ 1'7 | 11°22 | 29°19 | 21°10 | 12°54 | 6°54 | 13°33 | 5°40 | 29°44 | 12°59 | 13°28 | 12°19 | 13°20 | M21 | |
| T 22 | 4 6 31 | 0♌ 8'18 | 18° 6 | 11°48 | 0♌ 3'3 | 21°47 | 13° 5 | 6°52 | 13°35 | 5°41 | 29°43 | 12°57 | 13°25 | 12°25 | 13°28 | T 22 | |
| W23 | 4 10 27 | 1° 8'39 | 29°59 | 12°23 | 1°47 | 22°25 | 13°15 | 6°51 | 13°36 | 5°41 | 29°42 | 12°53 | 13°21 | 12°32 | 13°37 | W23 | |
| T 24 | 4 14 24 | 2° 9'01 | 12°Y 3 | 13° 5 | 3° 1 | 23° 2 | 13°26 | 6°49 | 13°38 | 5°41 | 29°41 | 12°47 | 13°18 | 12°39 | 13°45 | T 24 | |
| F 25 | 4 18 20 | 3° 9'25 | 24°19 | 13°55 | 4°14 | 23°40 | 13°36 | 6°47 | 13°40 | 5°42 | 29°40 | 12°38 | 13°15 | 12°45 | 13°53 | F 25 | |
| S 26 | 4 22 17 | 4° 9'50 | 6♌ 5'2 | 14°52 | 5°28 | 24°18 | 13°47 | 6°46 | 13°41 | 5°42 | 29°40 | 12°27 | 13°12 | 12°52 | 14° 1 | S 26 | |
| S 27 | 4 26 13 | 5°10'17 | 19°42 | 15°53 | 6°42 | 24°55 | 13°57 | 6°45 | 13°43 | 5°43 | 29°39 | 12°15 | 13° 9 | 12°59 | 14°10 | S 27 | |
| M28 | 4 30 10 | 6°10'45 | 2♌ 4'8 | 17° 0 | 7°56 | 25°33 | 14° 7 | 6°43 | 13°45 | 5°43 | 29°38 | 12° 3 | 13° 6 | 13° 5 | 14°18 | M28 | |
| T 29 | 4 34 7 | 7°11'15 | 16°11 | 18°11 | 9° 9 | 26°11 | 14°17 | 6°42 | 13°47 | 5°43 | 29°37 | 11°52 | 13° 2 | 13°12 | 14°26 | T 29 | |
| W30 | 4 38 3 | 8°11'46 | 29♌ 4'6 | 19♌ 2'5 | 10♌ 2'3 | 26°48 | 14°27 | 6°Y41 | 13°49 | 5♏ 4'4 | 29°Y36 | 11°54 | 12°59 | 13°Y19 | 14♌ 3'4 | W30 | |

Delta T = 19m17s

DECEMBER 2585

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|---------|---------|---------|---------|---------|-------|---------|--------|--------|--------|---------|---------|---------|------|-----|
| T 1 | 4 42 0 | 9♌ 12'19 | 13♌ 3'2 | 20♌ 4'2 | 11♌ 3'7 | 27♌ 2'6 | 14♌ 3'7 | 6°R40 | 13♍ 5'0 | 5♏ 4'4 | 29°R35 | 11°R38 | 12♐ 5'6 | 13♑ 2'5 | 14♒ 4'2 | T 1 | |
| F 2 | 4 45 56 | 10°12'53 | 27°25 | 22° 2 | 12°50 | 28° 3 | 14°47 | 6°Y39 | 13°52 | 5°44 | 29°Y34 | 11°53 | 12°53 | 13°32 | 14°50 | F 2 | |
| S 3 | 4 49 53 | 11°13'29 | 11♌ 2'4 | 23°24 | 14° 4 | 28°41 | 14°57 | 6°39 | 13°54 | 5°44 | 29°34 | 11°D34 | 12°50 | 13°39 | 14°58 | S 3 | |
| S 4 | 4 53 49 | 12°14'07 | 25°26 | 24°48 | 15°17 | 29°18 | 15° 6 | 6°38 | 13°57 | 5°44 | 29°33 | 11°34 | 12°46 | 13°45 | 15° 6 | S 4 | |
| M 5 | 4 57 46 | 13°14'46 | 9♌ 3'2 | 26°14 | 16°31 | 29°56 | 15°16 | 6°37 | 13°59 | 5°45 | 29°32 | 11°R35 | 12°43 | 13°52 | 15°14 | M 5 | |
| T 6 | 5 1 43 | 14°15'27 | 23°38 | 27°41 | 17°44 | 0♌ 3'4 | 15°25 | 6°37 | 14° 1 | 5°45 | 29°31 | 11°35 | 12°40 | 13°59 | 15°22 | T 6 | |
| W 7 | 5 5 39 | 15°16'10 | 7♌ 4'6 | 29° 9 | 18°58 | 1°11 | 15°34 | 6°37 | 14° 3 | 5°R45 | 29°30 | 11°32 | 12°37 | 14° 5 | 15°30 | W 7 | |
| T 8 | 5 9 36 | 16°16'54 | 21°52 | 0♌ 3'7 | 20°11 | 1°49 | 15°43 | 6°36 | 14° 5 | 5°45 | 29°30 | 11°28 | 12°34 | 14°12 | 15°38 | T 8 | |
| F 9 | 5 13 32 | 17°17'40 | 5♌ 5'5 | 2° 7 | 21°25 | 2°26 | 15°53 | 6°D36 | 14° 7 | 5°45 | 29°29 | 11°21 | 12°31 | 14°19 | 15°46 | F 9 | |
| S 10 | 5 17 29 | 18°18'27 | 19°50 | 3°37 | 22°38 | 3° 4 | 16° 1 | 6°36 | 14°10 | 5°45 | 29°28 | 11°12 | 12°27 | 14°25 | 15°53 | S 10 | |
| S 11 | 5 21 25 | 19°19'15 | 3♌ 3'5 | 5° 8 | 23°52 | 3°41 | 16°10 | 6°36 | 14°12 | 5°44 | 29°28 | 11° 3 | 12°24 | 14°32 | 16° 1 | S 11 | |
| M12 | 5 25 22 | 20°20'05 | 17° 6 | 6°39 | 25° 5 | 4°19 | 16°19 | 6°37 | 14°14 | 5°44 | 29°27 | 10°54 | 12°21 | 14°39 | 16° 9 | M12 | |
| T 13 | 5 29 18 | 21°20'56 | 0♌ 3'0 | 8°11 | 26°19 | 4°56 | 16°28 | 6°37 | 14°17 | 5°44 | 29°26 | 10°46 | 12°18 | 14°45 | 16°16 | T 13 | |
| W14 | 5 33 15 | 22°21'48 | 13°15 | 9°42 | 27°32 | 5°34 | 16°36 | 6°37 | 14°19 | 5°44 | 29°26 | 10°40 | 12°15 | 14°52 | 16°24 | W14 | |
| T 15 | 5 37 12 | 23°22'41 | 25°52 | 11°14 | 28°45 | 6°11 | 16°44 | 6°38 | 14°22 | 5°44 | 29°25 | 10°37 | 12°12 | 14°59 | 16°31 | T 15 | |
| F 16 | 5 41 8 | 24°23'35 | 8♌ 1'2 | 12°47 | 29°58 | 6°49 | 16°53 | 6°39 | 14°24 | 5°43 | 29°24 | 10°D36 | 12° 8 | 15° 5 | 16°39 | F 16 | |
| S 17 | 5 45 5 | 25°24'29 | 20°18 | 14°19 | 18°12 | 7°26 | 17° 1 | 6°39 | 14°27 | 5°43 | 29°24 | 10°36 | 12° 5 | 15°12 | 16°46 | S 17 | |
| S 18 | 5 49 1 | 26°25'25 | 2♌ 1'4 | 15°52 | 2°25 | 8° 3 | 17° 9 | 6°40 | 14°29 | 5°43 | 29°23 | 10°37 | 12° 2 | 15°19 | 16°54 | S 18 | |
| M19 | 5 52 58 | 27°26'21 | 14° 3 | 17°24 | 3°38 | 8°41 | 17°17 | 6°41 | 14°32 | 5°42 | 29°23 | 10°39 | 11°59 | 15°25 | 17° 1 | M19 | |
| T 20 | 5 56 54 | 28°27'17 | 25°53 | 18°57 | 4°51 | 9°18 | 17°24 | 6°42 | 14°35 | 5°42 | 29°22 | 10°R40 | 11°56 | 15°32 | 17° 8 | T 20 | |
| W21 | 6 0 51 | 29°28'14 | 7°Y46 | 20°30 | 6° 4 | 9°56 | 17°32 | 6°44 | 14°37 | 5°42 | 29°22 | 10°39 | 11°52 | 15°39 | 17°15 | W21 | |
| T 22 | 6 4 47 | 0♌ 29'12 | 19°50 | 22° 3 | 7°17 | 10°33 | 17°39 | 6°45 | 14°40 | 5°41 | 29°21 | 10°37 | 11°49 | 15°45 | 17°22 | T 22 | |
| F 23 | 6 8 44 | 1°30'10 | 2♌ 8 | 23°36 | 8°30 | 11°10 | 17°47 | 6°46 | 14°43 | 5°41 | 29°21 | 10°33 | 11°46 | 15°52 | 17°29 | F 23 | |
| S 24 | 6 12 41 | 2°31'09 | 14°44 | 25°10 | 9°43 | 11°48 | 17°54 | 6°48 | 14°46 | 5°40 | 29°20 | 10°28 | 11°43 | 15°59 | 17°36 | S 24 | |
| S 25 | 6 16 37 | 3°32'09 | 27°41 | 26°43 | 10°56 | 12°25 | 18° 1 | 6°49 | 14°49 | 5°39 | 29°20 | 10°22 | 11°40 | 16° 5 | 17°43 | S 25 | |
| M26 | 6 20 34 | 4°33'09 | 11♌ 0 | 28°16 | 12° 9 | 13° 2 | 18° 8 | 6°51 | 14°51 | 5°39 | 29°19 | 10°15 | 11°37 | 16°12 | 17°50 | M26 | |
| T 27 | 6 24 30 | 5°34'09 | 24°40 | 29°50 | 13°22 | 13°40 | 18°14 | 6°53 | 14°54 | 5°38 | 29°19 | 10°10 | 11°33 | 16°19 | 17°57 | T 27 | |
| W28 | 6 28 27 | 6°35'11 | 8♌ 3'8 | 1♌ 2'4 | 14°34 | 14°17 | 18°21 | 6°55 | 14°57 | 5°38 | 29°19 | 10° 5 | 11°30 | 16°25 | 18° 4 | W28 | |
| T 29 | 6 32 23 | 7°36'13 | 22°50 | 2°58 | 15°47 | 14°54 | 18°27 | 6°57 | 15° 0 | 5°37 | 29°18 | 10° 2 | 11°27 | 16°32 | 18°10 | T 29 | |
| F 30 | 6 36 20 | 8°37'15 | 7♌ 1'2 | 4°32 | 16°59 | 15°31 | 18°34 | 6°59 | 15° 3 | 5°36 | 29°18 | 10°D 1 | 11°24 | 16°39 | 18°17 | F 30 | |
| S 31 | 6 40 17 | 9°38'18 | 21♌ 3'8 | 6♌ 6 | 18°12 | 16♌ 9 | 18°40 | 7°Y 1 | 15°54 | 5♏ 3'5 | 29°Y18 | 10°52 | 11°21 | 16°Y45 | 18♌ 2'4 | S 31 | |

Delta T = 19m18s

ASTRODIENST EPHEMERIS for the year 2586
geocentric

JANUARY 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 6 44 13 | 10♁39'22 | 6♄ 3 | 7♁40 | 19♁24 | 16♄46 | 18♁46 | 7♄ 4 | 15♁ 9 | 5°R35 | 29°R18 | 10♁ 3 | 11♁18 | 16♁52 | 18♄30 | S 1 | | | | | | | | |
| M 2 | 6 48 10 | 11°40'26 | 20°24 | 9°15 | 20°37 | 17°23 | 18°52 | 7° 6 | 15°12 | 5♄34 | 29°V17 | 10° 5 | 11°14 | 16°59 | 18°36 | M 2 | | | | | | | | |
| T 3 | 6 52 6 | 12°41'31 | 4♁37 | 10°50 | 21°49 | 18° 0 | 18°58 | 7° 9 | 15°15 | 5°33 | 29°17 | 10° 6 | 11°11 | 17° 5 | 18°43 | T 3 | | | | | | | | |
| W 4 | 6 56 3 | 13°42'37 | 18°41 | 12°25 | 23° 2 | 18°37 | 19° 3 | 7°11 | 15°18 | 5°32 | 29°17 | 10°R 6 | 11° 8 | 17°12 | 18°49 | W 4 | | | | | | | | |
| T 5 | 6 59 59 | 14°43'43 | 2♄35 | 14° 1 | 24°14 | 19°15 | 19° 8 | 7°14 | 15°21 | 5°31 | 29°17 | 10° 5 | 11° 5 | 17°19 | 18°55 | T 5 | | | | | | | | |
| F 6 | 7 3 56 | 15°44'50 | 16°18 | 15°36 | 25°26 | 19°52 | 19°14 | 7°17 | 15°25 | 5°30 | 29°17 | 10° 2 | 11° 2 | 17°25 | 19° 1 | F 6 | | | | | | | | |
| S 7 | 7 7 52 | 16°45'58 | 29°48 | 17°12 | 26°38 | 20°29 | 19°19 | 7°20 | 15°28 | 5°29 | 29°16 | 9°59 | 10°58 | 17°32 | 19° 7 | S 7 | | | | | | | | |
| S 8 | 7 11 49 | 17°47'06 | 13♁ 6 | 18°48 | 27°50 | 21° 6 | 19°24 | 7°23 | 15°31 | 5°28 | 29°16 | 9°56 | 10°55 | 17°39 | 19°13 | S 8 | | | | | | | | |
| M 9 | 7 15 46 | 18°48'15 | 26°11 | 20°25 | 29° 2 | 21°43 | 19°28 | 7°26 | 15°34 | 5°27 | 29°16 | 9°52 | 10°52 | 17°45 | 19°19 | M 9 | | | | | | | | |
| T 10 | 7 19 42 | 19°49'23 | 9♁ 1 | 22° 2 | 0♁14 | 22°20 | 19°33 | 7°29 | 15°37 | 5°26 | 29°16 | 9°49 | 10°49 | 17°52 | 19°25 | T 10 | | | | | | | | |
| W11 | 7 23 39 | 20°50'32 | 21°39 | 23°39 | 1°26 | 22°57 | 19°37 | 7°33 | 15°41 | 5°25 | 29°16 | 9°47 | 10°46 | 17°59 | 19°31 | W11 | | | | | | | | |
| T 12 | 7 27 35 | 21°51'41 | 4♁ 3 | 25°17 | 2°37 | 23°34 | 19°42 | 7°36 | 15°44 | 5°24 | 29°D16 | 9°D46 | 10°43 | 18° 5 | 19°36 | T 12 | | | | | | | | |
| F 13 | 7 31 32 | 22°52'50 | 16°15 | 26°54 | 3°49 | 24°11 | 19°46 | 7°40 | 15°47 | 5°23 | 29°16 | 9°46 | 10°39 | 18°12 | 19°42 | F 13 | | | | | | | | |
| S 14 | 7 35 28 | 23°53'59 | 28°16 | 28°33 | 5° 0 | 24°48 | 19°49 | 7°43 | 15°51 | 5°22 | 29°16 | 9°47 | 10°36 | 18°19 | 19°47 | S 14 | | | | | | | | |
| S 15 | 7 39 25 | 24°55'08 | 10♁10 | 0♁11 | 6°12 | 25°25 | 19°53 | 7°47 | 15°54 | 5°21 | 29°16 | 9°48 | 10°33 | 18°25 | 19°52 | S 15 | | | | | | | | |
| M16 | 7 43 21 | 25°56'16 | 22° 0 | 1°50 | 7°23 | 26° 2 | 19°57 | 7°51 | 15°57 | 5°19 | 29°16 | 9°50 | 10°30 | 18°32 | 19°58 | M16 | | | | | | | | |
| T 17 | 7 47 18 | 26°57'24 | 3♄49 | 3°29 | 8°34 | 26°39 | 20° 0 | 7°55 | 16° 1 | 5°18 | 29°16 | 9°51 | 10°27 | 18°39 | 20° 3 | T 17 | | | | | | | | |
| W18 | 7 51 15 | 27°58'31 | 15°41 | 5° 9 | 9°45 | 27°16 | 20° 3 | 7°59 | 16° 4 | 5°17 | 29°16 | 9°52 | 10°24 | 18°45 | 20° 8 | W18 | | | | | | | | |
| T 19 | 7 55 11 | 28°59'38 | 27°43 | 6°49 | 10°56 | 27°53 | 20° 6 | 8° 3 | 16° 7 | 5°16 | 29°17 | 9°R52 | 10°20 | 18°52 | 20°13 | T 19 | | | | | | | | |
| F 20 | 7 59 8 | 0♁ 0'45 | 9♁58 | 8°29 | 12° 7 | 28°30 | 20° 9 | 8° 7 | 16°11 | 5°14 | 29°17 | 9°52 | 10°17 | 18°59 | 20°18 | F 20 | | | | | | | | |
| S 21 | 8 3 4 | 1° 1'51 | 22°31 | 10° 9 | 13°18 | 29° 7 | 20°12 | 8°11 | 16°14 | 5°13 | 29°17 | 9°51 | 10°14 | 19° 5 | 20°23 | S 21 | | | | | | | | |
| S 22 | 8 7 1 | 2° 2'57 | 5♁25 | 11°49 | 14°29 | 29°43 | 20°14 | 8°15 | 16°18 | 5°12 | 29°17 | 9°51 | 10°11 | 19°12 | 20°27 | S 22 | | | | | | | | |
| M23 | 8 10 57 | 3° 4'02 | 18°44 | 13°29 | 15°39 | 0♁20 | 20°16 | 8°20 | 16°21 | 5°10 | 29°17 | 9°50 | 10° 8 | 19°19 | 20°32 | M23 | | | | | | | | |
| T 24 | 8 14 54 | 4° 5'07 | 2♁29 | 15°10 | 16°50 | 0°57 | 20°18 | 8°24 | 16°25 | 5° 9 | 29°18 | 9°49 | 10° 4 | 19°25 | 20°36 | T 24 | | | | | | | | |
| W25 | 8 18 50 | 5° 6'11 | 16°38 | 16°50 | 18° 0 | 1°34 | 20°20 | 8°29 | 16°28 | 5° 8 | 29°18 | 9°48 | 10° 1 | 19°32 | 20°41 | W25 | | | | | | | | |
| T 26 | 8 22 47 | 6° 7'14 | 1♁ 9 | 18°30 | 19°10 | 2°10 | 20°22 | 8°33 | 16°31 | 5° 6 | 29°18 | 9°48 | 9°58 | 19°39 | 20°45 | T 26 | | | | | | | | |
| F 27 | 8 26 44 | 7° 8'17 | 15°54 | 20°10 | 20°20 | 2°47 | 20°24 | 8°38 | 16°35 | 5° 5 | 29°19 | 9°D48 | 9°55 | 19°46 | 20°49 | F 27 | | | | | | | | |
| S 28 | 8 30 40 | 8° 9'19 | 0♁48 | 21°49 | 21°30 | 3°24 | 20°25 | 8°43 | 16°38 | 5° 3 | 29°19 | 9°48 | 9°52 | 19°52 | 20°54 | S 28 | | | | | | | | |
| S 29 | 8 34 37 | 9°10'21 | 15°41 | 23°27 | 22°40 | 4° 0 | 20°26 | 8°48 | 16°42 | 5° 2 | 29°19 | 9°48 | 9°49 | 19°59 | 20°58 | S 29 | | | | | | | | |
| M30 | 8 38 33 | 10°11'23 | 0♁28 | 25° 4 | 23°49 | 4°37 | 20°27 | 8°53 | 16°45 | 5° 0 | 29°20 | 9°R48 | 9°45 | 20° 6 | 21° 2 | M30 | | | | | | | | |
| T 31 | 8 42 30 | 11°12'24 | 15♁ 1 | 26°40 | 24♁59 | 5♁13 | 20♁28 | 8°V58 | 16°49 | 4♄59 | 29°V20 | 9°48 | 9°42 | 20♁12 | 21♄ 5 | T 31 | | | | | | | | |

Delta T = 19m18s

FEBRUARY 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|--------|-------|--------|--------|-------|-------|--------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| W 1 | 8 46 26 | 12°13'24 | 29♁16 | 28°14 | 26♁ 8 | 5♁50 | 20♁28 | 9°V 3 | 16°52 | 4°R57 | 29°V20 | 9°R48 | 9°39 | 20♁19 | 21♄ 9 | W 1 | | | | | | | | |
| T 2 | 8 50 23 | 13°14'25 | 13♄11 | 29°45 | 27°17 | 6°26 | 20°29 | 9° 8 | 16°56 | 4♄56 | 29°21 | 9°D48 | 9°36 | 20°26 | 21°13 | T 2 | | | | | | | | |
| F 3 | 8 54 19 | 14°15'25 | 26°47 | 1♁15 | 28°26 | 7° 3 | 20°29 | 9°13 | 16°59 | 4°54 | 29°21 | 9°48 | 9°33 | 20°32 | 21°16 | F 3 | | | | | | | | |
| S 4 | 8 58 16 | 15°16'24 | 10♁ 3 | 2°41 | 29°35 | 7°39 | 20°R29 | 9°19 | 17° 3 | 4°53 | 29°22 | 9°48 | 9°30 | 20°39 | 21°20 | S 4 | | | | | | | | |
| S 5 | 9 2 13 | 16°17'24 | 23° 2 | 4° 3 | 0°V43 | 8°16 | 20°29 | 9°24 | 17° 6 | 4°51 | 29°22 | 9°49 | 9°26 | 20°46 | 21°23 | S 5 | | | | | | | | |
| M 6 | 9 6 9 | 17°18'22 | 5♁45 | 5°22 | 1°52 | 8°52 | 20°28 | 9°29 | 17°10 | 4°50 | 29°23 | 9°50 | 9°23 | 20°52 | 21°26 | M 6 | | | | | | | | |
| T 7 | 9 10 6 | 18°19'20 | 18°15 | 6°35 | 3° 0 | 9°28 | 20°28 | 9°35 | 17°13 | 4°48 | 29°23 | 9°51 | 9°20 | 20°59 | 21°29 | T 7 | | | | | | | | |
| W 8 | 9 14 2 | 19°20'17 | 0♁34 | 7°42 | 4° 8 | 10° 5 | 20°27 | 9°41 | 17°17 | 4°46 | 29°24 | 9°51 | 9°17 | 21° 6 | 21°32 | W 8 | | | | | | | | |
| T 9 | 9 17 59 | 20°21'13 | 12°43 | 8°43 | 5°16 | 10°41 | 20°26 | 9°46 | 17°21 | 4°45 | 29°25 | 9°R51 | 9°14 | 21°12 | 21°35 | T 9 | | | | | | | | |
| F 10 | 9 21 55 | 21°22'08 | 24°45 | 9°36 | 6°23 | 11°17 | 20°25 | 9°52 | 17°24 | 4°43 | 29°25 | 9°51 | 9°10 | 21°19 | 21°38 | F 10 | | | | | | | | |
| S 11 | 9 25 52 | 22°23'02 | 6♁40 | 10°21 | 7°31 | 11°53 | 20°24 | 9°58 | 17°28 | 4°42 | 29°26 | 9°50 | 9° 7 | 21°26 | 21°40 | S 11 | | | | | | | | |
| S 12 | 9 29 48 | 23°23'55 | 18°31 | 10°57 | 8°38 | 12°30 | 20°22 | 10° 4 | 17°31 | 4°40 | 29°27 | 9°48 | 9° 4 | 21°32 | 21°43 | S 12 | | | | | | | | |
| M13 | 9 33 45 | 24°24'47 | 0°V21 | 11°24 | 9°45 | 13° 6 | 20°20 | 10°10 | 17°35 | 4°38 | 29°27 | 9°46 | 9° 1 | 21°39 | 21°45 | M13 | | | | | | | | |
| T 14 | 9 37 42 | 25°25'37 | 12°10 | 11°40 | 10°52 | 13°42 | 20°18 | 10°16 | 17°38 | 4°37 | 29°28 | 9°43 | 8°58 | 21°46 | 21°48 | T 14 | | | | | | | | |
| W15 | 9 41 38 | 26°26'27 | 24° 4 | 11°R45 | 11°59 | 14°18 | 20°16 | 10°22 | 17°41 | 4°35 | 29°29 | 9°41 | 8°55 | 21°52 | 21°50 | W15 | | | | | | | | |
| T 16 | 9 45 35 | 27°27'15 | 6♁ 5 | 11°40 | 13° 5 | 14°54 | 20°14 | 10°28 | 17°45 | 4°33 | 29°29 | 9°39 | 8°51 | 21°59 | 21°52 | T 16 | | | | | | | | |
| F 17 | 9 49 31 | 28°28'01 | 18°17 | 11°23 | 14°11 | 15°30 | 20°12 | 10°34 | 17°48 | 4°32 | 29°30 | 9°37 | 8°48 | 22° 6 | 21°54 | F 17 | | | | | | | | |
| S 18 | 9 53 28 | 29°28'46 | 0♁44 | 10°56 | 15°17 | 16° 5 | 20° 9 | 10°40 | 17°52 | 4°30 | 29°31 | 9°D37 | 8°45 | 22°12 | 21°56 | S 18 | | | | | | | | |
| S 19 | 9 57 24 | 0♁29'30 | 13°32 | 10°19 | 16°22 | 16°41 | 20° 6 | 10°46 | 17°55 | 4°28 | 29°32 | 9°38 | 8°42 | 22°19 | 21°57 | S 19 | | | | | | | | |
| M20 | 10 1 21 | 1°30'12 | 26°43 | 9°33 | 17°28 | 17°17 | 20° 3 | 10°53 | 17°59 | 4°27 | 29°33 | 9°39 | 8°39 | 22°26 | 21°59 | M20 | | | | | | | | |
| T 21 | 10 5 17 | 2°30'52 | 10♁20 | 8°38 | 18°33 | 17°53 | 20° 0 | 10°59 | 18° 2 | 4°25 | 29°33 | 9°40 | 8°36 | 22°33 | 22° 1 | T 21 | | | | | | | | |
| W22 | 10 9 14 | 3°31'31 | 24°26 | 7°38 | 19°37 | 18°28 | 19°57 | 11° 5 | 18° 6 | 4°23 | 29°34 | 9°42 | 8°32 | 22°39 | 22° 2 | W22 | | | | | | | | |
| T 23 | 10 13 11 | 4°32'09 | 8♁57 | 6°32 | 20°42 | 19° 4 | 19°53 | 11°12 | 18° 9 | 4°22 | 29°35 | 9°R42 | 8°29 | 22°46 | 22° 3 | T 23 | | | | | | | | |
| F 24 | 10 17 7 | 5°32'44 | 23°51 | 5°24 | 21°46 | 19°40 | 19°49 | 11°18 | 18°12 | 4°20 | 29°36 | 9°42 | 8°26 | 22°53 | 22° 4 | F 24 | | | | | | | | |
| S 25 | 10 21 4 | 6°33'18 | 9♄ 0 | 4°15 | 22°50 | 20°15 | 19°45 | 11°25 | 18°16 | 4°18 | 29°37 | 9°40 | 8°23 | 22°59 | 22° 5 | S 25 | | | | | | | | |
| S 26 | 10 25 0 | 7°33'51 | 24°14 | 3° 7 | 23°53 | 20°51 | 19°41 | 11°31 | 18°19 | 4°17 | 29°38 | 9°37 | 8°20 | 23° 6 | 22° 6 | S 26 | | | | | | | | |
| M27 | 10 28 57 | 8°34'22 | 9♁24 | 2° 1 | 24°56 | 21°26 | 19°37 | 11°38 | 18°23 | 4°15 | 29°39 | 9°32 | 8°16 | 23°13 | 22° 7 | M27 | | | | | | | | |
| T 28 | 10 32 53 | 9°34'52 | 24♁19 | 0♁59 | 25°V59 | 22♁ 2 | 19♁33 | 11°V45 | 18°26 | 4♄13 | 29°V40 | 9°48 | 8°13 | 23♁19 | 22♄ 8 | T 28 | | | | | | | | |

Delta T = 19m18s

ASTRODIENST EPHEMERIS for the year 2586
geocentric

MARCH 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|-----------|-------|--------|--------|-------|--------|--------|-------|-------|--------|-------|------|-------|--------|------|-----|-----|
| W 1 | 10 36 50 | 10♋35'21 | 8♌53 | 0°R 2 | 27°V 2 | 22♌37 | 19°R28 | 11°V52 | 18♌29 | 4°R12 | 29°V41 | 9°R24 | 8♌10 | 23♋26 | 22♌8 | 8 | W 1 | |
| T 2 | 10 40 46 | 11°35'49 | 23° 1 | 29♌11 | 28° 4 | 23°12 | 19♌23 | 11°58 | 18°33 | 4♌10 | 29°42 | 9♌21 | 8° 7 | 23°33 | 22° 9 | T 2 | | |
| F 3 | 10 44 43 | 12°36'15 | 6♌42 | 28°27 | 29° 5 | 23°47 | 19°19 | 12° 5 | 18°36 | 4° 8 | 29°43 | 9°D20 | 8° 4 | 23°39 | 22° 9 | F 3 | | |
| S 4 | 10 48 40 | 13°36'40 | 19°57 | 27°50 | 0♌ 7 | 24°23 | 19°14 | 12°12 | 18°39 | 4° 7 | 29°44 | 9°20 | 8° 1 | 23°46 | 22° 9 | S 4 | | |
| S 5 | 10 52 36 | 14°37'04 | 2♌49 | 27°20 | 1° 8 | 24°58 | 19° 8 | 12°19 | 18°42 | 4° 5 | 29°45 | 9°21 | 7°57 | 23°53 | 22°10 | S 5 | | |
| M 6 | 10 56 33 | 15°37'27 | 15°22 | 26°58 | 2° 8 | 25°33 | 19° 3 | 12°26 | 18°46 | 4° 3 | 29°46 | 9°23 | 7°54 | 23°59 | 22°R10 | M 6 | | |
| T 7 | 11 0 29 | 16°37'48 | 27°39 | 26°43 | 3° 8 | 26° 8 | 18°58 | 12°33 | 18°49 | 4° 2 | 29°47 | 9°24 | 7°51 | 24° 6 | 22° 9 | T 7 | | |
| W 8 | 11 4 26 | 17°38'07 | 9♌45 | 26°35 | 4° 8 | 26°43 | 18°52 | 12°40 | 18°52 | 4° 0 | 29°48 | 9°R25 | 7°48 | 24°13 | 22° 9 | W 8 | | |
| T 9 | 11 8 22 | 18°38'25 | 21°42 | 26°D34 | 5° 7 | 27°17 | 18°46 | 12°47 | 18°55 | 3°58 | 29°49 | 9°24 | 7°45 | 24°19 | 22° 9 | T 9 | | |
| F 10 | 11 12 19 | 19°38'41 | 3♌35 | 26°39 | 6° 6 | 27°52 | 18°40 | 12°54 | 18°58 | 3°57 | 29°50 | 9°21 | 7°41 | 24°26 | 22° 8 | F 10 | | |
| S 11 | 11 16 15 | 20°38'56 | 15°26 | 26°51 | 7° 4 | 28°27 | 18°34 | 13° 1 | 19° 1 | 3°55 | 29°51 | 9°16 | 7°38 | 24°33 | 22° 8 | S 11 | | |
| S 12 | 11 20 12 | 21°39'09 | 27°15 | 27° 8 | 8° 2 | 29° 2 | 18°28 | 13° 8 | 19° 5 | 3°54 | 29°53 | 9°10 | 7°35 | 24°40 | 22° 7 | S 12 | | |
| M13 | 11 24 9 | 22°39'20 | 9°V 6 | 27°31 | 8°59 | 29°36 | 18°22 | 13°15 | 19° 8 | 3°52 | 29°54 | 9° 1 | 7°32 | 24°46 | 22° 6 | M13 | | |
| T 14 | 11 28 5 | 23°39'29 | 20°59 | 27°59 | 9°55 | 0♌11 | 18°16 | 13°22 | 19°11 | 3°50 | 29°55 | 8°52 | 7°29 | 24°53 | 22° 5 | T 14 | | |
| W15 | 11 32 2 | 24°39'37 | 2♌57 | 28°32 | 10°52 | 0°45 | 18° 9 | 13°30 | 19°14 | 3°49 | 29°56 | 8°44 | 7°26 | 25° 0 | 22° 4 | W15 | | |
| T 16 | 11 35 58 | 25°39'42 | 15° 2 | 29° 9 | 11°47 | 1°19 | 18° 2 | 13°37 | 19°17 | 3°47 | 29°57 | 8°36 | 7°22 | 25° 6 | 22° 3 | T 16 | | |
| F 17 | 11 39 55 | 26°39'46 | 27°16 | 29°50 | 12°42 | 1°54 | 17°56 | 13°44 | 19°20 | 3°46 | 29°58 | 8°30 | 7°19 | 25°13 | 22° 2 | F 17 | | |
| S 18 | 11 43 51 | 27°39'47 | 9♌43 | 0♌35 | 13°36 | 2°28 | 17°49 | 13°51 | 19°23 | 3°44 | 29°59 | 8°26 | 7°16 | 25°20 | 22° 1 | S 18 | | |
| S 19 | 11 47 48 | 28°39'46 | 22°27 | 1°23 | 14°30 | 3° 2 | 17°42 | 13°59 | 19°26 | 3°43 | 0♌ 1 | 8°24 | 7°13 | 25°26 | 21°59 | S 19 | | |
| M20 | 11 51 44 | 29°39'44 | 5♌30 | 2°15 | 15°23 | 3°36 | 17°35 | 14° 6 | 19°28 | 3°41 | 0° 2 | 8°D24 | 7°10 | 25°33 | 21°58 | M20 | | |
| T 21 | 11 55 41 | 0°V39'39 | 18°57 | 3°10 | 16°15 | 4°10 | 17°28 | 14°13 | 19°31 | 3°40 | 0° 3 | 8°25 | 7° 7 | 25°40 | 21°56 | T 21 | | |
| W22 | 11 59 38 | 1°39'31 | 2♌49 | 4° 8 | 17° 7 | 4°44 | 17°21 | 14°21 | 19°34 | 3°38 | 0° 5 | 8°R26 | 7° 3 | 25°46 | 21°54 | W22 | | |
| T 23 | 12 3 34 | 2°39'22 | 17° 9 | 5° 8 | 17°58 | 5°17 | 17°13 | 14°28 | 19°37 | 3°37 | 0° 6 | 8°26 | 7° 0 | 25°53 | 21°52 | T 23 | | |
| F 24 | 12 7 31 | 3°39'10 | 1♌54 | 6°11 | 18°48 | 5°51 | 17° 6 | 14°35 | 19°40 | 3°36 | 0° 7 | 8°24 | 6°57 | 26° 0 | 21°50 | F 24 | | |
| S 25 | 12 11 27 | 4°38'56 | 16°59 | 7°17 | 19°37 | 6°25 | 16°59 | 14°43 | 19°42 | 3°34 | 0° 8 | 8°19 | 6°54 | 26° 6 | 21°48 | S 25 | | |
| S 26 | 12 15 24 | 5°38'40 | 2♌16 | 8°25 | 20°25 | 6°58 | 16°51 | 14°50 | 19°45 | 3°33 | 0°10 | 8°12 | 6°51 | 26°13 | 21°46 | S 26 | | |
| M27 | 12 19 20 | 6°38'23 | 17°34 | 9°35 | 21°13 | 7°31 | 16°44 | 14°57 | 19°48 | 3°31 | 0°11 | 8° 4 | 6°47 | 26°20 | 21°44 | M27 | | |
| T 28 | 12 23 17 | 7°38'03 | 2♌42 | 10°47 | 21°59 | 8° 5 | 16°36 | 15° 5 | 19°50 | 3°30 | 0°12 | 7°54 | 6°44 | 26°27 | 21°42 | T 28 | | |
| W29 | 12 27 13 | 8°37'41 | 17°30 | 12° 1 | 22°45 | 8°38 | 16°29 | 15°12 | 19°53 | 3°29 | 0°14 | 7°46 | 6°41 | 26°33 | 21°39 | W29 | | |
| T 30 | 12 31 10 | 9°37'18 | 1♌52 | 13°17 | 23°30 | 9°11 | 16°21 | 15°20 | 19°56 | 3°27 | 0°15 | 7°38 | 6°38 | 26°40 | 21°37 | T 30 | | |
| F 31 | 12 35 7 | 10°V36'53 | 15♌43 | 14♌35 | 24♌13 | 9♌44 | 16♌13 | 15°V27 | 19♌58 | 3♌26 | 0♌16 | 7♌33 | 6♌35 | 26♌47 | 21♌34 | F 31 | | |

Delta T = 19m19s

APRIL 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|-----------|-------|-------|-------|-------|--------|--------|-------|-------|------|-------|------|-------|--------|------|---|-----|
| S 1 | 12 39 3 | 11°V36'27 | 29♌ 5 | 15♌54 | 24♌56 | 10♌17 | 16°R 6 | 15°V35 | 20♌ 1 | 3°R25 | 0♌18 | 7°R31 | 6♌32 | 26♌53 | 21°R31 | S 1 | | |
| S 2 | 12 43 0 | 12°35'59 | 11♌59 | 17°16 | 25°38 | 10°49 | 15♌58 | 15°42 | 20° 3 | 3♌24 | 0°19 | 7°D30 | 6°28 | 27° 0 | 21♌28 | S 2 | | |
| M 3 | 12 46 56 | 13°35'29 | 24°31 | 18°39 | 26°18 | 11°22 | 15°50 | 15°50 | 20° 6 | 3°22 | 0°20 | 7°R30 | 6°25 | 27° 7 | 21°26 | M 3 | | |
| T 4 | 12 50 53 | 14°34'57 | 6♌44 | 20° 3 | 26°57 | 11°55 | 15°43 | 15°57 | 20° 8 | 3°21 | 0°22 | 7°R31 | 6°22 | 27°13 | 21°23 | T 4 | | |
| W 5 | 12 54 49 | 15°34'23 | 18°45 | 21°29 | 27°35 | 12°27 | 15°35 | 16° 5 | 20°10 | 3°20 | 0°23 | 7°30 | 6°19 | 27°20 | 21°19 | W 5 | | |
| T 6 | 12 58 46 | 16°33'48 | 0♌38 | 22°57 | 28°12 | 12°59 | 15°27 | 16°12 | 20°13 | 3°19 | 0°24 | 7°27 | 6°16 | 27°27 | 21°16 | T 6 | | |
| F 7 | 13 2 42 | 17°33'11 | 12°27 | 24°26 | 28°48 | 13°31 | 15°19 | 16°20 | 20°15 | 3°18 | 0°26 | 7°22 | 6°13 | 27°33 | 21°13 | F 7 | | |
| S 8 | 13 6 39 | 18°32'31 | 24°15 | 25°56 | 29°22 | 14° 3 | 15°12 | 16°27 | 20°17 | 3°17 | 0°27 | 7°14 | 6° 9 | 27°40 | 21°10 | S 8 | | |
| S 9 | 13 10 35 | 19°31'50 | 6°V 5 | 27°28 | 29°55 | 14°35 | 15° 4 | 16°34 | 20°19 | 3°16 | 0°29 | 7° 3 | 6° 6 | 27°47 | 21° 6 | S 9 | | |
| M10 | 13 14 32 | 20°31'07 | 18° 0 | 29° 2 | 0♌26 | 15° 7 | 14°56 | 16°42 | 20°22 | 3°15 | 0°30 | 6°51 | 6° 3 | 27°54 | 21° 3 | M10 | | |
| T 11 | 13 18 29 | 21°30'22 | 0♌ 0 | 0°V37 | 0°56 | 15°39 | 14°48 | 16°49 | 20°24 | 3°14 | 0°31 | 6°37 | 6° 0 | 28° 0 | 20°59 | T 11 | | |
| W12 | 13 22 25 | 22°29'35 | 12° 7 | 2°13 | 1°24 | 16°10 | 14°41 | 16°57 | 20°26 | 3°13 | 0°33 | 6°24 | 5°57 | 28° 7 | 20°56 | W12 | | |
| T 13 | 13 26 22 | 23°28'46 | 24°22 | 3°51 | 1°51 | 16°41 | 14°33 | 17° 4 | 20°28 | 3°12 | 0°34 | 6°11 | 5°53 | 28°14 | 20°52 | T 13 | | |
| F 14 | 13 30 18 | 24°27'55 | 6♌46 | 5°31 | 2°16 | 17°13 | 14°26 | 17°12 | 20°30 | 3°11 | 0°36 | 6° 1 | 5°50 | 28°20 | 20°48 | F 14 | | |
| S 15 | 13 34 15 | 25°27'02 | 19°20 | 7°11 | 2°39 | 17°44 | 14°18 | 17°19 | 20°32 | 3°10 | 0°37 | 5°54 | 5°47 | 28°27 | 20°44 | S 15 | | |
| S 16 | 13 38 11 | 26°26'06 | 2♌ 8 | 8°54 | 3° 0 | 18°14 | 14°11 | 17°27 | 20°34 | 3° 9 | 0°38 | 5°49 | 5°44 | 28°34 | 20°40 | S 16 | | |
| M17 | 13 42 8 | 27°25'08 | 15°11 | 10°37 | 3°19 | 18°45 | 14° 3 | 17°34 | 20°35 | 3° 8 | 0°40 | 5°47 | 5°41 | 28°40 | 20°37 | M17 | | |
| T 18 | 13 46 4 | 28°24'08 | 28°33 | 12°23 | 3°37 | 19°16 | 13°56 | 17°41 | 20°37 | 3° 7 | 0°41 | 5°47 | 5°38 | 28°47 | 20°33 | T 18 | | |
| W19 | 13 50 1 | 29°23'06 | 12♌16 | 14° 9 | 3°52 | 19°46 | 13°49 | 17°49 | 20°39 | 3° 7 | 0°43 | 5°47 | 5°34 | 28°54 | 20°28 | W19 | | |
| T 20 | 13 53 58 | 0♌22'01 | 26°22 | 15°57 | 4° 6 | 20°16 | 13°41 | 17°56 | 20°41 | 3° 6 | 0°44 | 5°46 | 5°31 | 29° 0 | 20°24 | T 20 | | |
| F 21 | 13 57 54 | 1°20'54 | 10♌50 | 17°47 | 4°17 | 20°46 | 13°34 | 18° 4 | 20°43 | 3° 5 | 0°45 | 5°43 | 5°28 | 29° 7 | 20°20 | F 21 | | |
| S 22 | 14 1 51 | 2°19'44 | 25°38 | 19°38 | 4°26 | 21°16 | 13°27 | 18°11 | 20°44 | 3° 4 | 0°47 | 5°37 | 5°25 | 29°14 | 20°16 | S 22 | | |
| S 23 | 14 5 47 | 3°18'33 | 10♌40 | 21°31 | 4°33 | 21°46 | 13°20 | 18°18 | 20°46 | 3° 4 | 0°48 | 5°29 | 5°22 | 29°21 | 20°12 | S 23 | | |
| M24 | 14 9 44 | 4°17'19 | 25°47 | 23°25 | 4°37 | 22°15 | 13°13 | 18°26 | 20°47 | 3° 3 | 0°50 | 5°18 | 5°18 | 29°27 | 20° 8 | M24 | | |
| T 25 | 14 13 40 | 5°16'04 | 10♌49 | 25°21 | 4°R39 | 22°44 | 13° 7 | 18°33 | 20°49 | 3° 2 | 0°51 | 5° 7 | 5°15 | 29°34 | 20° 3 | T 25 | | |
| W26 | 14 17 37 | 6°14'46 | 25°37 | 27°18 | 4°39 | 23°14 | 13° 0 | 18°40 | 20°50 | 3° 2 | 0°53 | 4°56 | 5°12 | 29°41 | 19°59 | W26 | | |
| T 27 | 14 21 33 | 7°13'27 | 10♌ 1 | 29°17 | 4°36 | 23°42 | 12°54 | 18°47 | 20°52 | 3° 1 | 0°54 | 4°47 | 5° 9 | 29°47 | 19°54 | T 27 | | |
| F 28 | 14 25 30 | 8°12'06 | 23°58 | 1♌17 | 4°31 | 24°11 | 12°47 | 18°54 | 20°53 | 3° 1 | 0°55 | 4°40 | 5° 6 | 29°54 | 19°50 | F 28 | | |
| S 29 | 14 29 27 | 9°10'43 | 7♌26 | 3°19 | 4°23 | 24°40 | 12°41 | 19° 2 | 20°54 | 3° 0 | 0°57 | 4°35 | 5° 3 | 0°V 1 | 19°46 | S 29 | | |
| S 30 | 14 33 23 | 10♌ 9'19 | 20♌26 | 5♌21 | 4♌13 | 25♌ 8 | 12♌35 | 19°V 9 | 20♌56 | 3♌ 0 | 0♌58 | 4♌33 | 4♌59 | 0°V 7 | 19♌41 | S 30 | | |

Delta T = 19m19s

ASTRODIENST EPHEMERIS for the year 2586
geocentric

MAY 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|-------|------|-------|------|------|--------|------|
| M 1 | 14 37 20 | 11♈ 7°53 | 3♋ 1 | 7♊26 | 4♉R 1 | 25♄36 | 12♃R28 | 19♂16 | 20♁57 | 2♃R59 | 1♃ 0 | 4♃D33 | 4♁56 | 0♂14 | 19♃R37 | M 1 |
| T 2 | 14 41 16 | 12° 6'26 | 15°17 | 9°31 | 3♄46 | 26° 4 | 12♁22 | 19°23 | 20°58 | 2♄59 | 1° 1 | 4♃R33 | 4°53 | 0°21 | 19♄32 | T 2 |
| W 3 | 14 45 13 | 13° 4'56 | 27°19 | 11°38 | 3°29 | 26°31 | 12°17 | 19°30 | 20°59 | 2°59 | 1° 2 | 4♁32 | 4°50 | 0°28 | 19°28 | W 3 |
| T 4 | 14 49 9 | 14° 3'25 | 9♋12 | 13°45 | 3° 9 | 26°59 | 12°11 | 19°37 | 21° 0 | 2°58 | 1° 4 | 4°30 | 4°47 | 0°34 | 19°23 | T 4 |
| F 5 | 14 53 6 | 15° 1'53 | 21° 1 | 15°53 | 2°47 | 27°26 | 12° 5 | 19°44 | 21° 1 | 2°58 | 1° 5 | 4°25 | 4°44 | 0°41 | 19°18 | F 5 |
| S 6 | 14 57 2 | 16° 0'19 | 2♂50 | 18° 2 | 2°23 | 27°53 | 12° 0 | 19°51 | 21° 2 | 2°58 | 1° 6 | 4°17 | 4°40 | 0°48 | 19°14 | S 6 |
| S 7 | 15 0 59 | 16°58'43 | 14°44 | 20°11 | 1°57 | 28°19 | 11°55 | 19°58 | 21° 3 | 2°58 | 1° 8 | 4° 7 | 4°37 | 0°54 | 19° 9 | S 7 |
| M 8 | 15 4 56 | 17°57'05 | 26°44 | 22°20 | 1°29 | 28°45 | 11°49 | 20° 5 | 21° 4 | 2°57 | 1° 9 | 3°55 | 4°34 | 1° 1 | 19° 5 | M 8 |
| T 9 | 15 8 52 | 18°55'26 | 8♂53 | 24°29 | 0°59 | 29°11 | 11°44 | 20°12 | 21° 5 | 2°57 | 1°11 | 3°42 | 4°31 | 1° 8 | 19° 0 | T 9 |
| W10 | 15 12 49 | 19°53'45 | 21°12 | 26°37 | 0°27 | 29°37 | 11°40 | 20°19 | 21° 6 | 2°57 | 1°12 | 3°29 | 4°28 | 1°14 | 18°55 | W10 |
| T 11 | 15 16 45 | 20°52'03 | 3♄41 | 28°44 | 29♂54 | 0° 3 | 11°35 | 20°26 | 21° 7 | 2°57 | 1°13 | 3°17 | 4°24 | 1°21 | 18°51 | T 11 |
| F 12 | 15 20 42 | 21°50'19 | 16°20 | 0♄51 | 29°19 | 0°28 | 11°30 | 20°33 | 21° 7 | 2°57 | 1°15 | 3° 7 | 4°21 | 1°28 | 18°46 | F 12 |
| S 13 | 15 24 38 | 22°48'33 | 29°11 | 2°56 | 28°44 | 0°53 | 11°26 | 20°39 | 21° 8 | 2°57 | 1°16 | 3° 0 | 4°18 | 1°35 | 18°42 | S 13 |
| S 14 | 15 28 35 | 23°46'45 | 12♁13 | 4°59 | 28° 7 | 1°17 | 11°22 | 20°46 | 21° 9 | 2°57 | 1°17 | 2°56 | 4°15 | 1°41 | 18°37 | S 14 |
| M15 | 15 32 31 | 24°44'55 | 25°27 | 7° 1 | 27°30 | 1°41 | 11°18 | 20°53 | 21° 9 | 2°57 | 1°19 | 2°54 | 4°12 | 1°48 | 18°32 | M15 |
| T 16 | 15 36 28 | 25°43'03 | 8♁55 | 9° 0 | 26°53 | 2° 5 | 11°14 | 20°59 | 21°10 | 2°57 | 1°20 | 2°D54 | 4° 9 | 1°55 | 18°28 | T 16 |
| W17 | 15 40 25 | 26°41'09 | 22°38 | 10°56 | 26°15 | 2°29 | 11°10 | 21° 6 | 21°10 | 2°57 | 1°21 | 2°R55 | 4° 5 | 2° 1 | 18°23 | W17 |
| T 18 | 15 44 21 | 27°39'13 | 6♄36 | 12°50 | 25°37 | 2°52 | 11° 6 | 21°12 | 21°10 | 2°57 | 1°22 | 2°54 | 4° 2 | 2° 8 | 18°19 | T 18 |
| F 19 | 15 48 18 | 28°37'15 | 20°51 | 14°41 | 25° 0 | 3°15 | 11° 3 | 21°09 | 21°11 | 2°57 | 1°24 | 2°53 | 3°59 | 2°15 | 18°14 | F 19 |
| S 20 | 15 52 14 | 29°35'16 | 5♁20 | 16°29 | 24°23 | 3°38 | 11° 0 | 21°25 | 21°11 | 2°58 | 1°25 | 2°48 | 3°56 | 2°21 | 18°10 | S 20 |
| S 21 | 15 56 11 | 0♄33'14 | 20° 0 | 18°14 | 23°47 | 4° 0 | 10°57 | 21°32 | 21°11 | 2°58 | 1°26 | 2°42 | 3°53 | 2°28 | 18° 6 | S 21 |
| M22 | 16 0 7 | 1°31'11 | 4♄43 | 19°56 | 23°12 | 4°22 | 10°54 | 21°38 | 21°11 | 2°58 | 1°28 | 2°34 | 3°50 | 2°35 | 18° 1 | M22 |
| T 23 | 16 4 4 | 2°29'06 | 19°24 | 21°34 | 22°38 | 4°43 | 10°51 | 21°44 | 21°12 | 2°58 | 1°29 | 2°24 | 3°46 | 2°42 | 17°57 | T 23 |
| W24 | 16 8 0 | 3°27'00 | 3♄55 | 23° 9 | 22° 6 | 5° 4 | 10°49 | 21°51 | 21°12 | 2°59 | 1°30 | 2°15 | 3°43 | 2°48 | 17°53 | W24 |
| T 25 | 16 11 57 | 4°24'52 | 18° 8 | 24°41 | 21°35 | 5°25 | 10°46 | 21°57 | 21°12 | 2°59 | 1°31 | 2° 8 | 3°40 | 2°55 | 17°48 | T 25 |
| F 26 | 16 15 54 | 5°22'43 | 1♄58 | 26° 9 | 21° 6 | 5°45 | 10°44 | 22° 3 | 21°R12 | 3° 0 | 1°32 | 2° 2 | 3°37 | 3° 2 | 17°44 | F 26 |
| S 27 | 16 19 50 | 6°20'33 | 15°23 | 27°33 | 20°39 | 6° 5 | 10°42 | 22° 9 | 21°12 | 3° 0 | 1°34 | 1°58 | 3°34 | 3° 8 | 17°40 | S 27 |
| S 28 | 16 23 47 | 7°18'21 | 28°24 | 28°54 | 20°15 | 6°24 | 10°40 | 22°15 | 21°12 | 3° 0 | 1°35 | 1°D57 | 3°30 | 3°15 | 17°36 | S 28 |
| M29 | 16 27 43 | 8°16'08 | 11♁2 | 0♄11 | 19°52 | 6°43 | 10°39 | 22°21 | 21°11 | 3° 1 | 1°36 | 1°57 | 3°27 | 3°22 | 17°32 | M29 |
| T 30 | 16 31 40 | 9°13'54 | 23°21 | 1°24 | 19°31 | 7° 2 | 10°37 | 22°27 | 21°11 | 3° 1 | 1°37 | 1°58 | 3°24 | 3°28 | 17°28 | T 30 |
| W31 | 16 35 36 | 10♄11'39 | 5♋26 | 2♄33 | 19♂13 | 7♁20 | 10♁36 | 22♂33 | 21♁11 | 3♄ 2 | 1♃38 | 1°R59 | 3♁21 | 3♂35 | 17♄24 | W31 |

Delta T = 19m19s

JUNE 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|--------|--------|--------|-------|--------|------|------|-------|------|------|--------|------|
| T 1 | 16 39 33 | 11♄ 9°22 | 17♋21 | 3♄39 | 18°R58 | 7♁37 | 10°R35 | 22♂39 | 21°R11 | 3♄ 3 | 1♃40 | 1°R59 | 3♁18 | 3♂42 | 17°R20 | T 1 |
| F 2 | 16 43 30 | 12° 7'05 | 29°13 | 4°41 | 18♂44 | 7°54 | 10♁34 | 22°44 | 21♁10 | 3° 3 | 1°41 | 1♁57 | 3°15 | 3°49 | 17♄16 | F 2 |
| S 3 | 16 47 26 | 13° 4'47 | 11♂ 5 | 5°38 | 18°33 | 8°11 | 10°33 | 22°50 | 21°10 | 3° 4 | 1°42 | 1°54 | 3°11 | 3°55 | 17°12 | S 3 |
| S 4 | 16 51 23 | 14° 2'27 | 23° 2 | 6°32 | 18°25 | 8°27 | 10°33 | 22°56 | 21°10 | 3° 4 | 1°43 | 1°48 | 3° 8 | 4° 2 | 17° 8 | S 4 |
| M 5 | 16 55 19 | 15° 0'07 | 5♂ 7 | 7°21 | 18°19 | 8°43 | 10°32 | 23° 1 | 21° 9 | 3° 5 | 1°44 | 1°41 | 3° 5 | 4° 9 | 17° 5 | M 5 |
| T 6 | 16 59 16 | 15°57'46 | 17°24 | 8° 7 | 18°15 | 8°58 | 10°32 | 23° 7 | 21° 9 | 3° 6 | 1°45 | 1°33 | 3° 2 | 4°15 | 17° 1 | T 6 |
| W 7 | 17 3 12 | 16°55'23 | 29°54 | 8°48 | 18°D14 | 9°12 | 10°D32 | 23°12 | 21° 8 | 3° 7 | 1°46 | 1°25 | 2°59 | 4°22 | 16°57 | W 7 |
| T 8 | 17 7 9 | 17°53'00 | 12♄38 | 9°24 | 18°15 | 9°26 | 10°32 | 23°18 | 21° 7 | 3° 8 | 1°47 | 1°17 | 2°56 | 4°29 | 16°54 | T 8 |
| F 9 | 17 11 5 | 18°50'36 | 25°36 | 9°57 | 18°18 | 9°39 | 10°33 | 23°23 | 21° 7 | 3° 8 | 1°48 | 1°11 | 2°52 | 4°36 | 16°50 | F 9 |
| S 10 | 17 15 2 | 19°48'10 | 8♁48 | 10°24 | 18°24 | 9°52 | 10°33 | 23°28 | 21° 6 | 3° 9 | 1°49 | 1° 7 | 2°49 | 4°42 | 16°47 | S 10 |
| S 11 | 17 18 59 | 20°45'44 | 22°11 | 10°47 | 18°32 | 10° 4 | 10°34 | 23°33 | 21° 5 | 3°10 | 1°50 | 1° 5 | 2°46 | 4°49 | 16°44 | S 11 |
| M12 | 17 22 55 | 21°43'16 | 5♁46 | 11° 6 | 18°41 | 10°16 | 10°35 | 23°38 | 21° 4 | 3°11 | 1°51 | 1°D 5 | 2°43 | 4°56 | 16°41 | M12 |
| T 13 | 17 26 52 | 22°40'47 | 19°32 | 11°20 | 18°53 | 10°27 | 10°36 | 23°43 | 21° 4 | 3°12 | 1°52 | 1° 6 | 2°40 | 5° 2 | 16°38 | T 13 |
| W14 | 17 30 48 | 23°38'16 | 3♄26 | 11°29 | 19° 7 | 10°37 | 10°37 | 23°48 | 21° 3 | 3°13 | 1°53 | 1° 8 | 2°36 | 5° 9 | 16°35 | W14 |
| T 15 | 17 34 45 | 24°35'45 | 17°30 | 11°34 | 19°23 | 10°47 | 10°39 | 23°53 | 21° 2 | 3°14 | 1°54 | 1° 9 | 2°33 | 5°16 | 16°32 | T 15 |
| F 16 | 17 38 41 | 25°33'12 | 1♁40 | 11°R34 | 19°41 | 10°56 | 10°40 | 23°58 | 21° 1 | 3°15 | 1°55 | 1°R 9 | 2°30 | 5°22 | 16°29 | F 16 |
| S 17 | 17 42 38 | 26°30'38 | 15°57 | 11°30 | 20° 1 | 11° 4 | 10°42 | 24° 3 | 21° 0 | 3°16 | 1°56 | 1° 7 | 2°27 | 5°29 | 16°26 | S 17 |
| S 18 | 17 46 34 | 27°28'02 | 0♄16 | 11°21 | 20°22 | 11°12 | 10°44 | 24° 7 | 20°59 | 3°17 | 1°57 | 1° 4 | 2°24 | 5°36 | 16°23 | S 18 |
| M19 | 17 50 31 | 28°25'26 | 14°34 | 11° 9 | 20°46 | 11°19 | 10°46 | 24°12 | 20°57 | 3°18 | 1°58 | 1° 0 | 2°21 | 5°43 | 16°21 | M19 |
| T 20 | 17 54 28 | 29°22'49 | 28°48 | 10°52 | 21°10 | 11°25 | 10°48 | 24°17 | 20°56 | 3°20 | 1°58 | 0°56 | 2°17 | 5°49 | 16°18 | T 20 |
| W21 | 17 58 24 | 0♄20'11 | 12♄51 | 10°31 | 21°37 | 11°31 | 10°51 | 24°21 | 20°55 | 3°21 | 1°59 | 0°51 | 2°14 | 5°56 | 16°16 | W21 |
| T 22 | 18 2 21 | 1°17'32 | 26°41 | 10° 7 | 22° 5 | 11°36 | 10°54 | 24°25 | 20°54 | 3°22 | 2° 0 | 0°47 | 2°11 | 6° 3 | 16°13 | T 22 |
| F 23 | 18 6 17 | 2°14'52 | 10♄13 | 9°41 | 22°34 | 11°40 | 10°56 | 24°30 | 20°53 | 3°23 | 2° 1 | 0°45 | 2° 8 | 6° 9 | 16°11 | F 23 |
| S 24 | 18 10 14 | 3°12'12 | 23°27 | 9°11 | 23° 5 | 11°44 | 10°59 | 24°34 | 20°51 | 3°25 | 2° 2 | 0°43 | 2° 5 | 6°16 | 16° 9 | S 24 |
| S 25 | 18 14 10 | 4° 9'31 | 6♁20 | 8°40 | 23°38 | 11°47 | 11° 3 | 24°38 | 20°50 | 3°26 | 2° 2 | 0°D43 | 2° 2 | 6°23 | 16° 7 | S 25 |
| M26 | 18 18 7 | 5° 6'50 | 18°55 | 8° 7 | 24°11 | 11°49 | 11° 6 | 24°42 | 20°48 | 3°27 | 2° 3 | 0°44 | 1°58 | 6°30 | 16° 5 | M26 |
| T 27 | 18 22 3 | 6° 4'08 | 1♋14 | 7°33 | 24°46 | 11°50 | 11° 9 | 24°46 | 20°47 | 3°28 | 2° 4 | 0°46 | 1°55 | 6°36 | 16° 3 | T 27 |
| W28 | 18 26 0 | 7° 1'26 | 13°19 | 6°59 | 25°23 | 11°R51 | 11°13 | 24°50 | 20°46 | 3°30 | 2° 5 | 0°47 | 1°52 | 6°43 | 16° 2 | W28 |
| T 29 | 18 29 57 | 7°58'43 | 25°17 | 6°25 | 26° 0 | 11°51 | 11°17 | 24°54 | 20°44 | 3°31 | 2° 5 | 0°49 | 1°49 | 6°50 | 16° 0 | T 29 |
| F 30 | 18 33 53 | 8°56'01 | 7♂ 9 | 5♄51 | 26♂39 | 11♁50 | 11♁21 | 24♂57 | 20♁42 | 3♄33 | 2♃ 6 | 0°R49 | 1♁46 | 6♂56 | 15♄58 | F 30 |

Delta T = 19m20s

ASTRODIENST EPHEMERIS for the year 2586
geocentric

JULY 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|------|---|-----|
| S 1 | 18 37 50 | 9 ^h 53'18" | 19 ^h 03' | 5 ^h R19 | 27 ^h 18' | 11 ^h R49 | 11 ^h 25' | 25 ^h 01' | 20 ^h R41 | 3 ^h 34' | 2 ^h 07' | 0 ^h R49 | 1 ^h 42' | 7 ^h 03' | 15 ^h R57 | S 1 | | |
| S 2 | 18 41 46 | 10 ^h 50'35" | 1 ^h 02' | 4 ^h 549 | 27 ^h 59' | 11 ^h 46' | 11 ^h 29' | 25 ^h 05' | 20 ^h 39' | 3 ^h 36' | 2 ^h 07' | 0 ^h 48' | 1 ^h 39' | 7 ^h 10' | 15 ^h M55 | S 2 | | |
| M 3 | 18 45 43 | 11 ^h 47'51" | 13 ^h 10' | 4 ^h 22' | 28 ^h 41' | 11 ^h 43' | 11 ^h 34' | 25 ^h 08' | 20 ^h 38' | 3 ^h 37' | 2 ^h 08' | 0 ^h 46' | 1 ^h 36' | 7 ^h 17' | 15 ^h 54' | M 3 | | |
| T 4 | 18 49 39 | 12 ^h 45'08" | 25 ^h 32' | 3 ^h 57' | 29 ^h 23' | 11 ^h 39' | 11 ^h 38' | 25 ^h 11' | 20 ^h 36' | 3 ^h 39' | 2 ^h 09' | 0 ^h 43' | 1 ^h 33' | 7 ^h 23' | 15 ^h 53' | T 4 | | |
| W 5 | 18 53 36 | 13 ^h 42'25" | 8 ^h 110 | 3 ^h 35' | 0 ^h II 7 | 11 ^h 34' | 11 ^h 43' | 25 ^h 15' | 20 ^h 34' | 3 ^h 40' | 2 ^h 09' | 0 ^h 41' | 1 ^h 30' | 7 ^h 30' | 15 ^h 52' | W 5 | | |
| T 6 | 18 57 32 | 14 ^h 39'41" | 21 ^h 05' | 3 ^h 17' | 0 ^h 52' | 11 ^h 29' | 11 ^h 48' | 25 ^h 18' | 20 ^h 32' | 3 ^h 42' | 2 ^h 10' | 0 ^h 38' | 1 ^h 27' | 7 ^h 37' | 15 ^h 51' | T 6 | | |
| F 7 | 19 1 29 | 15 ^h 36'58" | 4 ^h 20' | 3 ^h 04' | 1 ^h 37' | 11 ^h 23' | 11 ^h 53' | 25 ^h 21' | 20 ^h 31' | 3 ^h 43' | 2 ^h 10' | 0 ^h 37' | 1 ^h 23' | 7 ^h 43' | 15 ^h 50' | F 7 | | |
| S 8 | 19 5 26 | 16 ^h 34'14" | 17 ^h 52' | 2 ^h 54' | 2 ^h 23' | 11 ^h 16' | 11 ^h 58' | 25 ^h 24' | 20 ^h 29' | 3 ^h 45' | 2 ^h 11' | 0 ^h 36' | 1 ^h 20' | 7 ^h 50' | 15 ^h 50' | S 8 | | |
| S 9 | 19 9 22 | 17 ^h 31'30" | 1 ^h 040 | 2 ^h 49' | 3 ^h 10' | 11 ^h 08' | 12 ^h 04' | 25 ^h 27' | 20 ^h 27' | 3 ^h 47' | 2 ^h 11' | 0 ^h D35 | 1 ^h 17' | 7 ^h 57' | 15 ^h 49' | S 9 | | |
| M10 | 19 13 19 | 18 ^h 28'45" | 15 ^h 41' | 2 ^h D49 | 3 ^h 58' | 11 ^h 09' | 12 ^h 09' | 25 ^h 30' | 20 ^h 25' | 3 ^h 48' | 2 ^h 12' | 0 ^h 36' | 1 ^h 14' | 8 ^h 04' | 15 ^h 48' | M10 | | |
| T 11 | 19 17 15 | 19 ^h 26'01" | 29 ^h 52' | 2 ^h 53' | 4 ^h 47' | 10 ^h 51' | 12 ^h 15' | 25 ^h 32' | 20 ^h 23' | 3 ^h 50' | 2 ^h 12' | 0 ^h 36' | 1 ^h 11' | 8 ^h 10' | 15 ^h 48' | T 11 | | |
| W12 | 19 21 12 | 20 ^h 23'15" | 14 ^h 08' | 3 ^h 03' | 5 ^h 36' | 10 ^h 41' | 12 ^h 21' | 25 ^h 35' | 20 ^h 21' | 3 ^h 52' | 2 ^h 13' | 0 ^h 37' | 1 ^h 08' | 8 ^h 17' | 15 ^h 48' | W12 | | |
| T 13 | 19 25 8 | 21 ^h 20'30" | 28 ^h 27' | 3 ^h 17' | 6 ^h 26' | 10 ^h 31' | 12 ^h 27' | 25 ^h 38' | 20 ^h 19' | 3 ^h 53' | 2 ^h 13' | 0 ^h 38' | 1 ^h 04' | 8 ^h 24' | 15 ^h 47' | T 13 | | |
| F 14 | 19 29 5 | 22 ^h 17'44" | 12 ^h 44' | 3 ^h 37' | 7 ^h 16' | 10 ^h 20' | 12 ^h 33' | 25 ^h 40' | 20 ^h 17' | 3 ^h 55' | 2 ^h 13' | 0 ^h 38' | 1 ^h 01' | 8 ^h 30' | 15 ^h D47 | F 14 | | |
| S 15 | 19 33 2 | 23 ^h 14'58" | 26 ^h 58' | 4 ^h 01' | 8 ^h 08' | 10 ^h 08' | 12 ^h 39' | 25 ^h 42' | 20 ^h 15' | 3 ^h 57' | 2 ^h 14' | 0 ^h R39 | 0 ^h 58' | 8 ^h 37' | 15 ^h 47' | S 15 | | |
| S 16 | 19 36 58 | 24 ^h 12'12" | 11 ^h 05' | 4 ^h 30' | 8 ^h 59' | 9 ^h 56' | 12 ^h 45' | 25 ^h 45' | 20 ^h 13' | 3 ^h 59' | 2 ^h 14' | 0 ^h 38' | 0 ^h 55' | 8 ^h 44' | 15 ^h 48' | S 16 | | |
| M17 | 19 40 55 | 25 ^h 09'25" | 25 ^h 04' | 5 ^h 05' | 9 ^h 52' | 9 ^h 43' | 12 ^h 52' | 25 ^h 47' | 20 ^h 11' | 4 ^h 01' | 2 ^h 14' | 0 ^h 38' | 0 ^h 52' | 8 ^h 51' | 15 ^h 48' | M17 | | |
| T 18 | 19 44 51 | 26 ^h 06'38" | 8 ^h 53' | 5 ^h 44' | 10 ^h 45' | 9 ^h 30' | 12 ^h 58' | 25 ^h 49' | 20 ^h 09' | 4 ^h 02' | 2 ^h 15' | 0 ^h 37' | 0 ^h 48' | 8 ^h 57' | 15 ^h 48' | T 18 | | |
| W19 | 19 48 48 | 27 ^h 03'52" | 22 ^h 29' | 6 ^h 28' | 11 ^h 38' | 9 ^h 16' | 13 ^h 05' | 25 ^h 51' | 20 ^h 07' | 4 ^h 04' | 2 ^h 15' | 0 ^h 37' | 0 ^h 45' | 9 ^h 04' | 15 ^h 49' | W19 | | |
| T 20 | 19 52 44 | 28 ^h 01'05" | 5 ^h 52' | 7 ^h 18' | 12 ^h 33' | 9 ^h 02' | 13 ^h 12' | 25 ^h 53' | 20 ^h 05' | 4 ^h 06' | 2 ^h 15' | 0 ^h 37' | 0 ^h 42' | 9 ^h 11' | 15 ^h 49' | T 20 | | |
| F 21 | 19 56 41 | 28 ^h 58'18" | 19 ^h 01' | 8 ^h 11' | 13 ^h 27' | 8 ^h 47' | 13 ^h 19' | 25 ^h 55' | 20 ^h 02' | 4 ^h 08' | 2 ^h 16' | 0 ^h 36' | 0 ^h 39' | 9 ^h 17' | 15 ^h 50' | F 21 | | |
| S 22 | 20 0 37 | 29 ^h 55'31" | 1 ^h 56' | 9 ^h 10' | 14 ^h 22' | 8 ^h 32' | 13 ^h 26' | 25 ^h 56' | 20 ^h 00' | 4 ^h 10' | 2 ^h 16' | 0 ^h D36 | 0 ^h 36' | 9 ^h 24' | 15 ^h 51' | S 22 | | |
| S 23 | 20 4 34 | 0 ^h 52'45" | 14 ^h 36' | 10 ^h 14' | 15 ^h 18' | 8 ^h 17' | 13 ^h 34' | 25 ^h 58' | 19 ^h 58' | 4 ^h 12' | 2 ^h 16' | 0 ^h R36 | 0 ^h 33' | 9 ^h 31' | 15 ^h 51' | S 23 | | |
| M24 | 20 8 31 | 1 ^h 49'59" | 27 ^h 01' | 11 ^h 22' | 16 ^h 14' | 8 ^h 01' | 13 ^h 41' | 25 ^h 59' | 19 ^h 56' | 4 ^h 14' | 2 ^h 16' | 0 ^h 36' | 0 ^h 29' | 9 ^h 38' | 15 ^h 52' | M24 | | |
| T 25 | 20 12 27 | 2 ^h 47'13" | 9 ^h 15' | 12 ^h 34' | 17 ^h 11' | 7 ^h 45' | 13 ^h 49' | 26 ^h 01' | 19 ^h 53' | 4 ^h 16' | 2 ^h 16' | 0 ^h 36' | 0 ^h 26' | 9 ^h 44' | 15 ^h 54' | T 25 | | |
| W26 | 20 16 24 | 3 ^h 44'28" | 21 ^h 09' | 13 ^h 51' | 18 ^h 08' | 7 ^h 28' | 13 ^h 56' | 26 ^h 02' | 19 ^h 51' | 4 ^h 18' | 2 ^h 17' | 0 ^h 36' | 0 ^h 23' | 9 ^h 51' | 15 ^h 55' | W26 | | |
| T 27 | 20 20 20 | 4 ^h 41'43" | 3 ^h 15' | 15 ^h 13' | 19 ^h 05' | 7 ^h 12' | 14 ^h 04' | 26 ^h 03' | 19 ^h 49' | 4 ^h 20' | 2 ^h 17' | 0 ^h 35' | 0 ^h 20' | 9 ^h 58' | 15 ^h 56' | T 27 | | |
| F 28 | 20 24 17 | 5 ^h 38'59" | 15 ^h 08' | 16 ^h 39' | 20 ^h 03' | 6 ^h 55' | 14 ^h 12' | 26 ^h 04' | 19 ^h 47' | 4 ^h 21' | 2 ^h 17' | 0 ^h 35' | 0 ^h 17' | 10 ^h 04' | 15 ^h 57' | F 28 | | |
| S 29 | 20 28 13 | 6 ^h 36'15" | 27 ^h 01' | 18 ^h 09' | 21 ^h 01' | 6 ^h 38' | 14 ^h 20' | 26 ^h 05' | 19 ^h 44' | 4 ^h 23' | 2 ^h 17' | 0 ^h 35' | 0 ^h 14' | 10 ^h 11' | 15 ^h 59' | S 29 | | |
| S 30 | 20 32 10 | 7 ^h 33'32" | 9 ^h 00' | 19 ^h 43' | 22 ^h 00' | 6 ^h 21' | 14 ^h 28' | 26 ^h 06' | 19 ^h 42' | 4 ^h 26' | 2 ^h 17' | 0 ^h D35 | 0 ^h 10' | 10 ^h 18' | 16 ^h 01' | S 30 | | |
| M31 | 20 36 6 | 8 ^h 30'51" | 21 ^h 07' | 21 ^h 21' | 22 ^h 59' | 6 ^h 04' | 14 ^h 36' | 26 ^h 07' | 19 ^h 40' | 4 ^h 28' | 2 ^h 17' | 0 ^h 35' | 0 ^h 07' | 10 ^h 25' | 16 ^h 02' | M31 | | |

Delta T = 19m20s

AUGUST 2586

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|------------|------------------------|---------------------|---------------------|----------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|------|---|-----|
| T 1 | 20 40 3 | 9 ^h 28'09" | 3 ^h II29 | 23 ^h 33' | 23 ^h II58 | 5 ^h R48 | 14 ^h 45' | 26 ^h 07' | 19 ^h R37 | 4 ^h 30' | 2 ^h R17 | 0 ^h 35' | 0 ^h 04' | 10 ^h Y31 | 16 ^h M 4 | T 1 | | |
| W 2 | 20 44 0 | 10 ^h 25'29" | 16 ^h 09' | 24 ^h 48' | 24 ^h 58' | 5 ^h 31' | 14 ^h 53' | 26 ^h 08' | 19 ^h 35' | 4 ^h 32' | 2 ^h 17' | 0 ^h 36' | 0 ^h 01' | 10 ^h 38' | 16 ^h 06' | W 2 | | |
| T 3 | 20 47 56 | 11 ^h 22'50" | 29 ^h 09' | 26 ^h 37' | 25 ^h 58' | 5 ^h 14' | 15 ^h 02' | 26 ^h 08' | 19 ^h 33' | 4 ^h 34' | 2 ^h 17' | 0 ^h 37' | 29 ^h 58' | 10 ^h 45' | 16 ^h 08' | T 3 | | |
| F 4 | 20 51 53 | 12 ^h 20'11" | 12 ^h 32' | 28 ^h 28' | 26 ^h 59' | 4 ^h 57' | 15 ^h 11' | 26 ^h 09' | 19 ^h 30' | 4 ^h 36' | 2 ^h 17' | 0 ^h 38' | 29 ^h 54' | 10 ^h 51' | 16 ^h 10' | F 4 | | |
| S 5 | 20 55 49 | 13 ^h 17'33" | 26 ^h 19' | 0 ^h 23' | 27 ^h 59' | 4 ^h 41' | 15 ^h 19' | 26 ^h 09' | 19 ^h 28' | 4 ^h 38' | 2 ^h 17' | 0 ^h R38 | 29 ^h 51' | 10 ^h 58' | 16 ^h 12' | S 5 | | |
| S 6 | 20 59 46 | 14 ^h 14'56" | 10 ^h 02' | 2 ^h 20' | 29 ^h 00' | 4 ^h 25' | 15 ^h 28' | 26 ^h 09' | 19 ^h 25' | 4 ^h 40' | 2 ^h 17' | 0 ^h 38' | 29 ^h 48' | 11 ^h 05' | 16 ^h 15' | S 6 | | |
| M 7 | 21 3 42 | 15 ^h 12'20" | 24 ^h 52' | 4 ^h 19' | 0 ^h 22' | 4 ^h 09' | 15 ^h 37' | 26 ^h 09' | 19 ^h 23' | 4 ^h 42' | 2 ^h 17' | 0 ^h 37' | 29 ^h 45' | 11 ^h 12' | 16 ^h 17' | M 7 | | |
| T 8 | 21 7 39 | 16 ^h 09'44" | 9 ^h 30' | 6 ^h 21' | 1 ^h 04' | 3 ^h 53' | 15 ^h 46' | 26 ^h 09' | 19 ^h 21' | 4 ^h 44' | 2 ^h 16' | 0 ^h 36' | 29 ^h 42' | 11 ^h 18' | 16 ^h 20' | T 8 | | |
| W 9 | 21 11 35 | 17 ^h 07'08" | 24 ^h 13' | 8 ^h 23' | 2 ^h 06' | 3 ^h 38' | 15 ^h 56' | 26 ^h 09' | 19 ^h 18' | 4 ^h 46' | 2 ^h 16' | 0 ^h 34' | 29 ^h 39' | 11 ^h 25' | 16 ^h 23' | W 9 | | |
| T 10 | 21 15 32 | 18 ^h 04'34" | 8 ^h 55' | 10 ^h 27' | 3 ^h 08' | 3 ^h 23' | 16 ^h 05' | 26 ^h 09' | 19 ^h 16' | 4 ^h 48' | 2 ^h 16' | 0 ^h 32' | 29 ^h 35' | 11 ^h 32' | 16 ^h 25' | T 10 | | |
| F 11 | 21 19 29 | 19 ^h 02'00" | 23 ^h 29' | 12 ^h 32' | 4 ^h 10' | 3 ^h 09' | 16 ^h 14' | 26 ^h 08' | 19 ^h 14' | 4 ^h 51' | 2 ^h 16' | 0 ^h 30' | 29 ^h 32' | 11 ^h 38' | 16 ^h 28' | F 11 | | |
| S 12 | 21 23 25 | 19 ^h 59'26" | 7 ^h 050 | 14 ^h 37' | 5 ^h 13' | 2 ^h 56' | 16 ^h 24' | 26 ^h 08' | 19 ^h 11' | 4 ^h 53' | 2 ^h 16' | 0 ^h 29' | 29 ^h 29' | 11 ^h 45' | 16 ^h 31' | S 12 | | |
| S 13 | 21 27 22 | 20 ^h 56'53" | 21 ^h 56' | 16 ^h 42' | 6 ^h 16' | 2 ^h 42' | 16 ^h 34' | 26 ^h 07' | 19 ^h 09' | 4 ^h 55' | 2 ^h 16' | 0 ^h D28 | 29 ^h 26' | 11 ^h 52' | 16 ^h 34' | S 13 | | |
| M14 | 21 31 18 | 21 ^h 54'21" | 5 ^h 45' | 18 ^h 47' | 7 ^h 19' | 2 ^h 30' | 16 ^h 43' | 26 ^h 07' | 19 ^h 06' | 4 ^h 57' | 2 ^h 15' | 0 ^h 29' | 29 ^h 23' | 11 ^h 59' | 16 ^h 37' | M14 | | |
| T 15 | 21 35 15 | 22 ^h 51'49" | 19 ^h 17' | 20 ^h 52' | 8 ^h 23' | 2 ^h 18' | 16 ^h 53' | 26 ^h 06' | 19 ^h 04' | 4 ^h 59' | 2 ^h 15' | 0 ^h 30' | 29 ^h 20' | 12 ^h 05' | 16 ^h 41' | T 15 | | |
| W16 | 21 39 11</ | | | | | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2586
geocentric

SEPTEMBER 2586

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|------|-------|--------|--------|------|-------|--------|-------|--------|-------|------|---|---|---|---|---|---|---|-----|
| F 1 | 22 42 16 | 9♐11'37 | 20♌34 | 23♍26 | 26♌56 | 0♈47 | 19♌53 | 25°R38 | 18°R25 | 5♍37 | 2°R 7 | 0♈ 4 | 28♌26 | 13♍59 | 17♍50 | F 1 | | | | | | | | |
| S 2 | 22 46 13 | 10° 9'29 | 4♏25 | 25° 8 | 28° 3 | 0°48 | 20° 4 | 25°V35 | 18°W22 | 5°39 | 2♌ 7 | 0°R 4 | 28°22 | 14° 6 | 17°55 | S 2 | | | | | | | | |
| S 3 | 22 50 9 | 11° 7'21 | 18°42 | 26°50 | 29°11 | 0°51 | 20°15 | 25°33 | 18°20 | 5°41 | 2° 6 | 0° 3 | 28°19 | 14°13 | 18° 0 | S 3 | | | | | | | | |
| M 4 | 22 54 6 | 12° 5'16 | 3♍22 | 28°30 | 0♏18 | 0°55 | 20°27 | 25°30 | 18°18 | 5°44 | 2° 5 | 29♌59 | 28°16 | 14°20 | 18° 5 | M 4 | | | | | | | | |
| T 5 | 22 58 2 | 13° 3'12 | 18°20 | 0♌ 8 | 1°26 | 0°59 | 20°38 | 25°27 | 18°16 | 5°46 | 2° 5 | 29°54 | 28°13 | 14°26 | 18°10 | T 5 | | | | | | | | |
| W 6 | 23 1 59 | 14° 1'09 | 3♌27 | 1°45 | 2°34 | 1° 4 | 20°50 | 25°24 | 18°14 | 5°48 | 2° 4 | 29°48 | 28°10 | 14°33 | 18°15 | W 6 | | | | | | | | |
| T 7 | 23 5 56 | 14°59'08 | 18°32 | 3°21 | 3°42 | 1°10 | 21° 1 | 25°21 | 18°12 | 5°50 | 2° 3 | 29°41 | 28° 6 | 14°40 | 18°21 | T 7 | | | | | | | | |
| F 8 | 23 9 52 | 15°57'08 | 3♍26 | 4°56 | 4°50 | 1°17 | 21°13 | 25°18 | 18°10 | 5°52 | 2° 2 | 29°35 | 28° 3 | 14°46 | 18°26 | F 8 | | | | | | | | |
| S 9 | 23 13 49 | 16°55'09 | 18° 3 | 6°29 | 5°58 | 1°24 | 21°24 | 25°15 | 18° 8 | 5°55 | 2° 2 | 29°30 | 28° 0 | 14°53 | 18°31 | S 9 | | | | | | | | |
| S 10 | 23 17 45 | 17°53'12 | 2♌16 | 8° 1 | 7° 7 | 1°33 | 21°36 | 25°12 | 18° 6 | 5°57 | 2° 1 | 29°27 | 27°57 | 15° 0 | 18°37 | S 10 | | | | | | | | |
| M11 | 23 21 42 | 18°51'16 | 16° 5 | 9°32 | 8°15 | 1°42 | 21°48 | 25° 9 | 18° 4 | 5°59 | 2° 0 | 29°D26 | 27°54 | 15° 7 | 18°43 | M11 | | | | | | | | |
| T 12 | 23 25 38 | 19°49'22 | 29°31 | 11° 2 | 9°24 | 1°52 | 22° 0 | 25° 5 | 18° 2 | 6° 1 | 1°59 | 29°26 | 27°51 | 15°13 | 18°48 | T 12 | | | | | | | | |
| W13 | 23 29 35 | 20°47'29 | 12♌35 | 12°30 | 10°33 | 2° 3 | 22°12 | 25° 2 | 18° 0 | 6° 3 | 1°59 | 29°27 | 27°47 | 15°20 | 18°54 | W13 | | | | | | | | |
| T 14 | 23 33 31 | 21°45'37 | 25°21 | 13°57 | 11°42 | 2°14 | 22°24 | 24°59 | 17°58 | 6° 5 | 1°58 | 29°R28 | 27°44 | 15°27 | 19° 0 | T 14 | | | | | | | | |
| F 15 | 23 37 28 | 22°43'47 | 7♌52 | 15°22 | 12°51 | 2°26 | 22°36 | 24°55 | 17°56 | 6° 8 | 1°57 | 29°28 | 27°41 | 15°34 | 19° 6 | F 15 | | | | | | | | |
| S 16 | 23 41 25 | 23°41'58 | 20°11 | 16°46 | 14° 0 | 2°39 | 22°48 | 24°51 | 17°55 | 6°10 | 1°56 | 29°26 | 27°38 | 15°40 | 19°12 | S 16 | | | | | | | | |
| S 17 | 23 45 21 | 24°40'10 | 2♌22 | 18° 9 | 15°10 | 2°53 | 23° 0 | 24°48 | 17°53 | 6°12 | 1°55 | 29°21 | 27°35 | 15°47 | 19°18 | S 17 | | | | | | | | |
| M18 | 23 49 18 | 25°38'25 | 14°25 | 19°31 | 16°19 | 3° 7 | 23°12 | 24°44 | 17°51 | 6°14 | 1°54 | 29°14 | 27°31 | 15°54 | 19°24 | M18 | | | | | | | | |
| T 19 | 23 53 14 | 26°36'41 | 26°23 | 20°51 | 17°29 | 3°22 | 23°24 | 24°40 | 17°49 | 6°16 | 1°53 | 29° 5 | 27°28 | 16° 0 | 19°30 | T 19 | | | | | | | | |
| W20 | 23 57 11 | 27°34'58 | 8♍18 | 22° 9 | 18°38 | 3°37 | 23°36 | 24°36 | 17°48 | 6°18 | 1°53 | 28°54 | 27°25 | 16° 7 | 19°36 | W20 | | | | | | | | |
| T 21 | 0 1 7 | 28°33'18 | 20°11 | 23°26 | 19°48 | 3°54 | 23°49 | 24°32 | 17°46 | 6°20 | 1°52 | 28°43 | 27°22 | 16°14 | 19°42 | T 21 | | | | | | | | |
| F 22 | 0 5 4 | 29°31'39 | 2♌ 3 | 24°41 | 20°58 | 4°11 | 24° 1 | 24°28 | 17°44 | 6°22 | 1°51 | 28°32 | 27°19 | 16°21 | 19°49 | F 22 | | | | | | | | |
| S 23 | 0 9 0 | 0♌30'03 | 13°56 | 25°55 | 22° 9 | 4°28 | 24°13 | 24°24 | 17°43 | 6°24 | 1°50 | 28°22 | 27°16 | 16°27 | 19°55 | S 23 | | | | | | | | |
| S 24 | 0 12 57 | 1°28'28 | 25°54 | 27° 7 | 23°19 | 4°46 | 24°26 | 24°20 | 17°41 | 6°27 | 1°49 | 28°14 | 27°12 | 16°34 | 20° 2 | S 24 | | | | | | | | |
| M25 | 0 16 53 | 2°26'56 | 7♍59 | 28°17 | 24°29 | 5° 5 | 24°38 | 24°16 | 17°40 | 6°29 | 1°48 | 28° 9 | 27° 9 | 16°41 | 20° 8 | M25 | | | | | | | | |
| T 26 | 0 20 50 | 3°25'25 | 20°15 | 29°25 | 25°40 | 5°24 | 24°51 | 24°12 | 17°38 | 6°31 | 1°47 | 28° 6 | 27° 6 | 16°47 | 20°15 | T 26 | | | | | | | | |
| W27 | 0 24 47 | 4°23'57 | 2♌47 | 0♍32 | 26°50 | 5°44 | 25° 3 | 24° 8 | 17°37 | 6°33 | 1°46 | 28°D 5 | 27° 3 | 16°54 | 20°21 | W27 | | | | | | | | |
| T 28 | 0 28 43 | 5°22'31 | 15°39 | 1°36 | 28° 1 | 6° 5 | 25°16 | 24° 3 | 17°36 | 6°35 | 1°45 | 28° 5 | 27° 0 | 17° 1 | 20°28 | T 28 | | | | | | | | |
| F 29 | 0 32 40 | 6°21'07 | 28°56 | 2°37 | 29°12 | 6°26 | 25°28 | 25°28 | 17°34 | 6°37 | 1°44 | 28°R 6 | 26°57 | 17° 8 | 20°35 | F 29 | | | | | | | | |
| S 30 | 0 36 36 | 7♌19'45 | 12♏40 | 3♍37 | 0♍23 | 6♌47 | 25♌41 | 23°V55 | 17°W33 | 6♍39 | 1♌43 | 28♌ 5 | 26♌53 | 17°V14 | 20♍42 | S 30 | | | | | | | | |

Delta T = 19m21s

OCTOBER 2586

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|--------|-------|--------|-------|--------|--------|------|-------|--------|-------|--------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 0 40 33 | 8♌18'26 | 26♏54 | 4♍33 | 1♍34 | 7♌ 9 | 25♌54 | 23°R50 | 17°R32 | 6♍41 | 1°R42 | 28°R 2 | 26♌50 | 17°V21 | 20♍49 | S 1 | | | | | | | | |
| M 2 | 0 44 29 | 9°17'08 | 11♍35 | 5°27 | 2°45 | 7°32 | 26° 6 | 23°V46 | 17°W31 | 6°43 | 1♌41 | 27♌57 | 26°47 | 17°28 | 20°56 | M 2 | | | | | | | | |
| T 3 | 0 48 26 | 10°15'53 | 26°38 | 6°18 | 3°56 | 7°55 | 26°19 | 23°41 | 17°29 | 6°44 | 1°40 | 27°49 | 26°44 | 17°35 | 21° 3 | T 3 | | | | | | | | |
| W 4 | 0 52 22 | 11°14'39 | 11♌55 | 7° 5 | 5° 8 | 8°19 | 26°32 | 23°37 | 17°28 | 6°46 | 1°39 | 27°39 | 26°41 | 17°41 | 21°10 | W 4 | | | | | | | | |
| T 5 | 0 56 19 | 12°13'28 | 27°14 | 7°49 | 6°19 | 8°43 | 26°44 | 23°32 | 17°27 | 6°48 | 1°38 | 27°28 | 26°37 | 17°48 | 21°17 | T 5 | | | | | | | | |
| F 6 | 1 0 16 | 13°12'18 | 12♍25 | 8°29 | 7°31 | 9° 8 | 26°57 | 23°27 | 17°26 | 6°50 | 1°36 | 27°18 | 26°34 | 17°55 | 21°24 | F 6 | | | | | | | | |
| S 7 | 1 4 12 | 14°11'11 | 27°17 | 9° 5 | 8°42 | 9°33 | 27°10 | 23°23 | 17°25 | 6°52 | 1°35 | 27° 9 | 26°31 | 18° 1 | 21°31 | S 7 | | | | | | | | |
| S 8 | 1 8 9 | 15°10'05 | 11♌43 | 9°36 | 9°54 | 9°58 | 27°23 | 23°18 | 17°24 | 6°54 | 1°34 | 27° 3 | 26°28 | 18° 8 | 21°38 | S 8 | | | | | | | | |
| M 9 | 1 12 5 | 16° 9'01 | 25°40 | 10° 2 | 11° 6 | 10°24 | 27°36 | 23°14 | 17°23 | 6°56 | 1°33 | 27° 0 | 26°25 | 18°15 | 21°45 | M 9 | | | | | | | | |
| T 10 | 1 16 2 | 17° 7'58 | 9♌ 9 | 10°23 | 12°18 | 10°51 | 27°49 | 23° 9 | 17°22 | 6°57 | 1°32 | 26°59 | 26°22 | 18°22 | 21°53 | T 10 | | | | | | | | |
| W11 | 1 19 58 | 18° 6'57 | 22°12 | 10°38 | 13°30 | 11°18 | 28° 2 | 23° 4 | 17°22 | 6°59 | 1°31 | 26°59 | 26°18 | 18°28 | 22° 0 | W11 | | | | | | | | |
| T 12 | 1 23 55 | 19° 5'58 | 4♌53 | 10°47 | 14°42 | 11°45 | 28°14 | 22°59 | 17°21 | 7° 1 | 1°30 | 26°58 | 26°15 | 18°35 | 22° 8 | T 12 | | | | | | | | |
| F 13 | 1 27 51 | 20° 5'01 | 17°16 | 10°R49 | 15°54 | 12°13 | 28°27 | 22°55 | 17°20 | 7° 3 | 1°29 | 26°57 | 26°12 | 18°42 | 22°15 | F 13 | | | | | | | | |
| S 14 | 1 31 48 | 21° 4'05 | 29°27 | 10°44 | 17° 6 | 12°41 | 28°40 | 22°50 | 17°20 | 7° 5 | 1°28 | 26°54 | 26° 9 | 18°48 | 22°23 | S 14 | | | | | | | | |
| S 15 | 1 35 45 | 22° 3'11 | 11♌29 | 10°32 | 18°18 | 13° 9 | 28°53 | 22°45 | 17°19 | 7° 6 | 1°27 | 26°47 | 26° 6 | 18°55 | 22°30 | S 15 | | | | | | | | |
| M16 | 1 39 41 | 23° 2'19 | 23°25 | 10°12 | 19°31 | 13°38 | 29° 6 | 22°41 | 17°18 | 7° 8 | 1°25 | 26°38 | 26° 3 | 19° 2 | 22°38 | M16 | | | | | | | | |
| T 17 | 1 43 38 | 24° 1'29 | 5♍18 | 9°44 | 20°43 | 14° 8 | 29°19 | 22°36 | 17°18 | 7°10 | 1°24 | 26°26 | 25°59 | 19° 9 | 22°45 | T 17 | | | | | | | | |
| W18 | 1 47 34 | 25° 0'41 | 17°11 | 9° 7 | 21°56 | 14°37 | 29°32 | 22°31 | 17°17 | 7°11 | 1°23 | 26°13 | 25°56 | 19°15 | 22°53 | W18 | | | | | | | | |
| T 19 | 1 51 31 | 25°59'54 | 29° 4 | 8°23 | 23° 9 | 15° 7 | 29°45 | 22°26 | 17°17 | 7°13 | 1°22 | 25°58 | 25°53 | 19°22 | 23° 1 | T 19 | | | | | | | | |
| F 20 | 1 55 27 | 26°59'10 | 10♌59 | 7°31 | 24°21 | 15°37 | 29°58 | 22°22 | 17°17 | 7°14 | 1°21 | 25°44 | 25°50 | 19°29 | 23° 8 | F 20 | | | | | | | | |
| S 21 | 1 59 24 | 27°58'28 | 22°57 | 6°33 | 25°34 | 16° 8 | 0♍11 | 22°17 | 17°16 | 7°16 | 1°20 | 25°31 | 25°47 | 19°35 | 23°16 | S 21 | | | | | | | | |
| S 22 | 2 3 20 | 28°57'48 | 5♍ 1 | 5°28 | 26°47 | 16°39 | 0°24 | 22°12 | 17°16 | 7°17 | 1°19 | 25°21 | 25°43 | 19°42 | 23°24 | S 22 | | | | | | | | |
| M23 | 2 7 17 | 29°57'10 | 17°10 | 4°19 | 28° 0 | 17°10 | 0°37 | 22° 8 | 17°16 | 7°19 | 1°17 | 25°13 | 25°40 | 19°49 | 23°32 | M23 | | | | | | | | |
| T 24 | 2 11 14 | 0♍56'34 | 29°30 | 3° 7 | 29°13 | 17°42 | 0°50 | 22° 3 | 17°16 | 7°20 | 1°16 | 25° 9 | 25°37 | 19°56 | 23°39 | T 24 | | | | | | | | |
| W25 | 2 15 10 | 1°56'01 | 12♌ 2 | 1°54 | 0♌26 | 18°13 | 1° 3 | 21°58 | 17°16 | 7°22 | 1°15 | 25° 6 | 25°34 | 20° 2 | 23°47 | W25 | | | | | | | | |
| T 26 | 2 19 7 | 2°55'30 | 24°52 | 0°42 | 1°39 | 18°45 | 1°16 | 21°54 | 17°15 | 7°23 | 1°14 | 25°D 6 | 25°31 | 20° 9 | 23°55 | T 26 | | | | | | | | |
| F 27 | 2 23 3 | 3°55'01 | 8♏ 3 | 29♌33 | 2°52 | 19°18 | 1°29 | 21°49 | 17°D15 | 7°25 | 1°13 | 25°R 6 | 25°28 | 20°16 | 24° 3 | F 27 | | | | | | | | |
| S 28 | 2 27 0 | 4°54'35 | 21°38 | 28°29 | 4° 6 | 19°51 | 1°42 | 21°45 | 17°15 | 7°26 | 1°12 | 25° 5 | 25°24 | 20°23 | 24°11 | S 28 | | | | | | | | |
| S 29 | 2 30 56 | 5°54'10 | 5♍40 | 27°32 | 5°19 | 20°23 | 1°55 | 21°40 | 17°16 | 7°28 | 1°11 | 25° 3 | 25°21 | 20°29 | 24°19 | S 29 | | | | | | | | |
| M30 | 2 34 53 | 6°53'48 | 20° 9 | 26°44 | 6°33 | 20°57 | 2° 8 | 21°36 | 17°16 | 7°29 | 1° 9 | 24°57 | 25°18 | 20°36 | 24°27 | M30 | | | | | | | | |
| T 31 | 2 38 49 | 7♍53'28 | 5♌ 1 | 26♌ 6 | 7♌46 | 21°W30 | | | | | | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2586
geocentric

NOVEMBER 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|------|--------|-------|------|-------|--------|-------|--------|-------|------|
| W 1 | 2 42 46 | 8♏53°11 | 20♌10 | 25°R38 | 9♏ 0 | 22♏ 4 | 2♏34 | 21°R27 | 17♏16 | 7♏31 | 1°R 7 | 24°R39 | 25♏12 | 20♏49 | 24♏43 | W 1 |
| T 2 | 2 46 42 | 9°52'55 | 5♏27 | 25♏22 | 10°13 | 22°38 | 2°47 | 21°R23 | 17°16 | 7°33 | 1♏ 6 | 24°R38 | 25° 8 | 20°56 | 24°51 | T 2 |
| F 3 | 2 50 39 | 10°52'41 | 20°39 | 25°D17 | 11°27 | 23°12 | 3° 0 | 21°R18 | 17°17 | 7°34 | 1° 5 | 24°R18 | 25° 5 | 21° 3 | 24°59 | F 3 |
| S 4 | 2 54 36 | 11°52'30 | 5♏37 | 25°24 | 12°41 | 23°46 | 3°13 | 21°R14 | 17°17 | 7°35 | 1° 4 | 24° 9 | 25° 2 | 21°10 | 25° 7 | S 4 |
| S 5 | 2 58 32 | 12°52'20 | 20°12 | 25°41 | 13°54 | 24°21 | 3°26 | 21°R10 | 17°18 | 7°36 | 1° 3 | 24° 2 | 24°59 | 21°16 | 25°15 | S 5 |
| M 6 | 3 2 29 | 13°52'12 | 4♏18 | 26° 8 | 15° 8 | 24°56 | 3°39 | 21° 6 | 17°18 | 7°37 | 1° 2 | 23°58 | 24°56 | 21°23 | 25°23 | M 6 |
| T 7 | 3 6 25 | 14°52'06 | 17°54 | 26°45 | 16°22 | 25°31 | 3°52 | 21° 1 | 17°19 | 7°39 | 1° 0 | 23°D57 | 24°53 | 21°30 | 25°32 | T 7 |
| W 8 | 3 10 22 | 15°52'01 | 1♏ 3 | 27°30 | 17°36 | 26° 6 | 4° 5 | 20°57 | 17°19 | 7°40 | 0°59 | 23°57 | 24°49 | 21°37 | 25°40 | W 8 |
| T 9 | 3 14 18 | 16°51'58 | 13°47 | 28°22 | 18°50 | 26°42 | 4°18 | 20°53 | 17°20 | 7°41 | 0°58 | 23°R57 | 24°46 | 21°43 | 25°48 | T 9 |
| F 10 | 3 18 15 | 17°51'56 | 26°11 | 29°22 | 20° 4 | 27°18 | 4°31 | 20°49 | 17°21 | 7°42 | 0°57 | 23°57 | 24°43 | 21°50 | 25°56 | F 10 |
| S 11 | 3 22 12 | 18°51'56 | 8♏20 | 0♏27 | 21°18 | 27°54 | 4°43 | 20°46 | 17°21 | 7°43 | 0°56 | 23°55 | 24°40 | 21°57 | 26° 4 | S 11 |
| S 12 | 3 26 8 | 19°51'57 | 20°19 | 1°37 | 22°32 | 28°30 | 4°56 | 20°42 | 17°22 | 7°44 | 0°55 | 23°50 | 24°37 | 22° 3 | 26°12 | S 12 |
| M13 | 3 30 5 | 20°52'00 | 2°R13 | 2°52 | 23°46 | 29° 6 | 5° 9 | 20°38 | 17°23 | 7°44 | 0°54 | 23°43 | 24°34 | 22°10 | 26°21 | M13 |
| T 14 | 3 34 1 | 21°52'05 | 14° 4 | 4°11 | 25° 1 | 29°42 | 5°22 | 20°34 | 17°24 | 7°45 | 0°53 | 23°34 | 24°30 | 22°17 | 26°29 | T 14 |
| W15 | 3 37 58 | 22°52'11 | 25°57 | 5°33 | 26°15 | 0♏19 | 5°35 | 20°31 | 17°25 | 7°46 | 0°52 | 23°23 | 24°27 | 22°24 | 26°37 | W15 |
| T 16 | 3 41 54 | 23°52'19 | 7♏52 | 6°58 | 27°29 | 0°56 | 5°47 | 20°27 | 17°26 | 7°47 | 0°51 | 23°11 | 24°24 | 22°30 | 26°45 | T 16 |
| F 17 | 3 45 51 | 24°52'29 | 19°53 | 8°25 | 28°44 | 1°33 | 6° 0 | 20°24 | 17°27 | 7°48 | 0°50 | 23° 0 | 24°21 | 22°37 | 26°53 | F 17 |
| S 18 | 3 49 47 | 25°52'40 | 2♏ 0 | 9°53 | 29°58 | 2°10 | 6°13 | 20°20 | 17°28 | 7°49 | 0°49 | 22°49 | 24°18 | 22°44 | 27° 2 | S 18 |
| S 19 | 3 53 44 | 26°52'53 | 14°14 | 11°24 | 1♏12 | 2°47 | 6°25 | 20°17 | 17°29 | 7°49 | 0°48 | 22°41 | 24°14 | 22°50 | 27°10 | S 19 |
| M20 | 3 57 41 | 27°53'08 | 26°36 | 12°55 | 2°27 | 3°25 | 6°38 | 20°14 | 17°30 | 7°50 | 0°47 | 22°35 | 24°11 | 22°57 | 27°18 | M20 |
| T 21 | 4 1 37 | 28°53'25 | 9♏ 7 | 14°28 | 3°41 | 4° 2 | 6°50 | 20°11 | 17°32 | 7°51 | 0°46 | 22°32 | 24° 8 | 23° 4 | 27°26 | T 21 |
| W22 | 4 5 34 | 29°53'44 | 21°50 | 16° 1 | 4°56 | 4°40 | 7° 3 | 20° 8 | 17°33 | 7°51 | 0°45 | 22°D31 | 24° 5 | 23°11 | 27°34 | W22 |
| T 23 | 4 9 30 | 0♏54°05 | 4♏47 | 17°35 | 6°10 | 5°18 | 7°15 | 20° 5 | 17°34 | 7°52 | 0°44 | 22°31 | 24° 2 | 23°17 | 27°43 | T 23 |
| F 24 | 4 13 27 | 1°54'27 | 18° 0 | 19°10 | 7°25 | 5°56 | 7°28 | 20° 2 | 17°36 | 7°52 | 0°43 | 22°32 | 23°59 | 23°24 | 27°51 | F 24 |
| S 25 | 4 17 23 | 2°54'51 | 1♏32 | 20°45 | 8°40 | 6°34 | 7°40 | 19°59 | 17°37 | 7°53 | 0°42 | 22°R33 | 23°55 | 23°31 | 27°59 | S 25 |
| S 26 | 4 21 20 | 3°55'18 | 15°24 | 22°20 | 9°54 | 7°12 | 7°53 | 19°56 | 17°39 | 7°54 | 0°41 | 22°32 | 23°52 | 23°38 | 28° 7 | S 26 |
| M27 | 4 25 16 | 4°55'46 | 29°38 | 23°55 | 11° 9 | 7°50 | 8° 5 | 19°53 | 17°40 | 7°54 | 0°40 | 22°30 | 23°49 | 23°44 | 28°15 | M27 |
| T 28 | 4 29 13 | 5°56'15 | 14♏10 | 25°30 | 12°24 | 8°29 | 8°17 | 19°51 | 17°42 | 7°54 | 0°39 | 22°25 | 23°46 | 23°51 | 28°24 | T 28 |
| W29 | 4 33 10 | 6°56'47 | 28°58 | 27° 6 | 13°39 | 9° 7 | 8°30 | 19°48 | 17°43 | 7°55 | 0°38 | 22°19 | 23°43 | 23°58 | 28°32 | W29 |
| T 30 | 4 37 6 | 7°57'21 | 13♏54 | 28♏41 | 14♏53 | 9♏46 | 8♏42 | 19°R46 | 17°44 | 7°55 | 0°37 | 22°R12 | 23°40 | 24°R 4 | 28♏40 | T 30 |

Delta T = 19m21s

DECEMBER 2586

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|--------|-------|------|
| F 1 | 4 41 3 | 8♏57°56 | 28♏50 | 0♏16 | 16♏ 8 | 10♏25 | 8♏54 | 19°R44 | 17°47 | 7♏55 | 0°R36 | 22°R 5 | 23♏36 | 24°R11 | 28♏48 | F 1 |
| S 2 | 4 44 59 | 9°58'32 | 13♏37 | 1°52 | 17°23 | 11° 4 | 9° 6 | 19°R42 | 17°49 | 7°56 | 0°R35 | 21♏59 | 23°33 | 24°18 | 28°56 | S 2 |
| S 3 | 4 48 56 | 10°59'10 | 28° 7 | 3°27 | 18°38 | 11°43 | 9°18 | 19°40 | 17°50 | 7°56 | 0°35 | 21°55 | 23°30 | 24°25 | 29° 4 | S 3 |
| M 4 | 4 52 52 | 11°59'50 | 12♏14 | 5° 2 | 19°53 | 12°22 | 9°30 | 19°38 | 17°52 | 7°56 | 0°34 | 21°53 | 23°27 | 24°31 | 29°12 | M 4 |
| T 5 | 4 56 49 | 13° 0'30 | 25°54 | 6°37 | 21° 8 | 13° 1 | 9°42 | 19°36 | 17°54 | 7°56 | 0°33 | 21°D52 | 23°24 | 24°38 | 29°20 | T 5 |
| W 6 | 5 0 45 | 14° 1'12 | 9♏ 8 | 8°12 | 22°23 | 13°40 | 9°54 | 19°34 | 17°56 | 7°57 | 0°32 | 21°53 | 23°20 | 24°45 | 29°28 | W 6 |
| T 7 | 5 4 42 | 15° 1'55 | 21°58 | 9°47 | 23°38 | 14°20 | 10° 6 | 19°32 | 17°58 | 7°57 | 0°31 | 21°55 | 23°17 | 24°52 | 29°36 | T 7 |
| F 8 | 5 8 39 | 16° 2'38 | 4♏27 | 11°21 | 24°53 | 14°59 | 10°17 | 19°31 | 18° 0 | 7°57 | 0°31 | 21°57 | 23°14 | 24°58 | 29°44 | F 8 |
| S 9 | 5 12 35 | 17° 3'23 | 16°39 | 12°56 | 26° 8 | 15°39 | 10°29 | 19°29 | 18° 2 | 7°57 | 0°30 | 21°R57 | 23°11 | 25° 5 | 29°52 | S 9 |
| S 10 | 5 16 32 | 18° 4'08 | 28°40 | 14°30 | 27°23 | 16°18 | 10°41 | 19°28 | 18° 4 | 7°R57 | 0°29 | 21°57 | 23° 8 | 25°12 | 0♏ 0 | S 10 |
| M11 | 5 20 28 | 19° 4'55 | 10°R34 | 16° 5 | 28°38 | 16°58 | 10°52 | 19°27 | 18° 6 | 7°57 | 0°29 | 21°54 | 23° 5 | 25°18 | 0° 8 | M11 |
| T 12 | 5 24 25 | 20° 5'42 | 22°25 | 17°39 | 29°53 | 17°38 | 11° 4 | 19°25 | 18° 9 | 7°57 | 0°28 | 21°51 | 23° 1 | 25°25 | 0°16 | T 12 |
| W13 | 5 28 21 | 21° 6'30 | 4♏19 | 19°13 | 1♏ 8 | 18°18 | 11°15 | 19°24 | 18°11 | 7°57 | 0°27 | 21°46 | 22°58 | 25°32 | 0°24 | W13 |
| T 14 | 5 32 18 | 22° 7'20 | 16°18 | 20°47 | 2°23 | 18°58 | 11°26 | 19°24 | 18°13 | 7°57 | 0°27 | 21°40 | 22°55 | 25°39 | 0°32 | T 14 |
| F 15 | 5 36 14 | 23° 8'10 | 28°25 | 22°22 | 3°38 | 19°38 | 11°38 | 19°23 | 18°15 | 7°56 | 0°26 | 21°35 | 22°52 | 25°45 | 0°40 | F 15 |
| S 16 | 5 40 11 | 24° 9'01 | 10♏41 | 23°56 | 4°53 | 20°18 | 11°49 | 19°22 | 18°18 | 7°56 | 0°25 | 21°30 | 22°49 | 25°52 | 0°47 | S 16 |
| S 17 | 5 44 8 | 25° 9'53 | 23° 9 | 25°30 | 6° 8 | 20°58 | 12° 0 | 19°21 | 18°20 | 7°56 | 0°25 | 21°27 | 22°46 | 25°59 | 0°55 | S 17 |
| M18 | 5 48 4 | 26°10'46 | 5♏48 | 27° 4 | 7°24 | 21°38 | 12°11 | 19°21 | 18°23 | 7°56 | 0°24 | 21°24 | 22°42 | 26° 6 | 1° 3 | M18 |
| T 19 | 5 52 1 | 27°11'40 | 18°40 | 28°39 | 8°39 | 22°18 | 12°22 | 19°20 | 18°25 | 7°55 | 0°24 | 21°D23 | 22°39 | 26°12 | 1°10 | T 19 |
| W20 | 5 55 57 | 28°12'36 | 1♏43 | 0♏13 | 9°54 | 22°59 | 12°33 | 19°20 | 18°28 | 7°55 | 0°23 | 21°24 | 22°36 | 26°19 | 1°18 | W20 |
| T 21 | 5 59 54 | 29°13'32 | 14°59 | 1°47 | 11° 9 | 23°39 | 12°44 | 19°20 | 18°30 | 7°55 | 0°22 | 21°25 | 22°33 | 26°26 | 1°26 | T 21 |
| F 22 | 6 3 50 | 0♏14°29 | 28°28 | 3°22 | 12°24 | 24°19 | 12°55 | 19°D20 | 18°33 | 7°54 | 0°22 | 21°26 | 22°30 | 26°32 | 1°33 | F 22 |
| S 23 | 6 7 47 | 1°15'27 | 12♏ 9 | 4°56 | 13°40 | 25° 0 | 13° 5 | 19°20 | 18°35 | 7°54 | 0°21 | 21°28 | 22°26 | 26°39 | 1°41 | S 23 |
| S 24 | 6 11 44 | 2°16'26 | 26° 2 | 6°31 | 14°55 | 25°40 | 13°16 | 19°20 | 18°38 | 7°53 | 0°21 | 21°R29 | 22°23 | 26°46 | 1°48 | S 24 |
| M25 | 6 15 40 | 3°17'26 | 10♏ 8 | 8° 6 | 16°10 | 26°21 | 13°26 | 19°20 | 18°41 | 7°53 | 0°21 | 21°29 | 22°20 | 26°53 | 1°56 | M25 |
| T 26 | 6 19 37 | 4°18'27 | 24°24 | 9°40 | 17°25 | 27° 2 | 13°37 | 19°21 | 18°43 | 7°52 | 0°20 | 21°28 | 22°17 | 26°59 | 2° 3 | T 26 |
| W27 | 6 23 33 | 5°19'30 | 8♏48 | 11°15 | 18°41 | 27°42 | 13°47 | 19°21 | 18°46 | 7°52 | 0°20 | 21°26 | 22°14 | 27° 6 | 2°10 | W27 |
| T 28 | 6 27 30 | 6°20'33 | 23°16 | 12°51 | 19°56 | 28°23 | 13°57 | 19°22 | 18°49 | 7°51 | 0°19 | 21°24 | 22°11 | 27°13 | 2°18 | T 28 |
| F 29 | 6 31 26 | 7°21'37 | 7♏43 | 14°26 | 21°11 | 29° 4 | 14° 7 | 19°22 | 18°52 | 7°51 | 0°19 | 21°22 | 22° 7 | 27°19 | 2°25 | F 29 |
| S 30 | 6 35 23 | 8°22'42 | 22° 4 | 16° 1 | 22°27 | 29°44 | 14°18 | 19°23 | 18°55 | 7°50 | 0°19 | 21°21 | 22° 4 | 27°26 | 2°32 | S 30 |
| S 31 | 6 39 19 | 9♏23°48 | 6♏13 | 17♏37 | 23♏42 | 0°R25 | 14♏27 | 19°R24 | 18°57 | 7♏49 | 0°R18 | 21♏19 | 22♏ 1 | 27°R33 | 2♏39 | S 31 |

Delta T = 19m21s

ASTRODIENST EPHEMERIS for the year 2587
geocentric

JANUARY 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|----------|----------|----------|---------|------|
| M 1 | 6 43 16 | 10°24'54 | 20°36'00 | 19°13'13 | 24°27'57 | 1°07'06 | 14°18'37 | 19°09'25 | 19°00'00 | 7°19'49 | 0°18'18 | 21°05'19 | 21°05'58 | 27°07'40 | 2°27'46 | M 1 |
| T 2 | 6 47 13 | 11°26'00 | 3°33'39 | 20°04'48 | 26°13'13 | 1°47'14 | 14°47'14 | 19°26'19 | 19°03'03 | 7°19'48 | 0°18'18 | 21°05'19 | 21°05'55 | 27°07'46 | 2°53'13 | T 2 |
| W 3 | 6 51 9 | 12°27'06 | 16°51'16 | 22°24'24 | 27°28'28 | 2°28'14 | 14°57'14 | 19°28'19 | 19°06'06 | 7°47'19 | 0°18'18 | 21°05'20 | 21°05'52 | 27°07'53 | 3°00'00 | W 3 |
| T 4 | 6 55 6 | 13°28'13 | 29°43'24 | 24°00'24 | 28°43'30 | 3°09'15 | 15°06'15 | 19°29'19 | 19°09'09 | 7°46'19 | 0°17'17 | 21°05'21 | 21°05'48 | 28°00'00 | 3°07'14 | T 4 |
| F 5 | 6 59 2 | 14°29'20 | 12°15'15 | 25°36'25 | 29°59'35 | 3°50'15 | 15°16'15 | 19°30'19 | 19°12'12 | 7°46'19 | 0°17'17 | 21°05'22 | 21°05'45 | 28°00'07 | 3°14'14 | F 5 |
| S 6 | 7 2 59 | 15°30'27 | 24°30'24 | 27°12'12 | 1°13'14 | 4°31'15 | 15°25'15 | 19°32'19 | 19°15'15 | 7°45'19 | 0°17'17 | 21°05'22 | 21°05'42 | 28°00'13 | 3°21'14 | S 6 |
| S 7 | 7 6 55 | 16°31'34 | 6°07'34 | 28°48'28 | 2°29'29 | 5°12'15 | 15°34'15 | 19°34'19 | 19°18'18 | 7°44'19 | 0°17'17 | 21°05'23 | 21°05'39 | 28°00'20 | 3°28'14 | S 7 |
| M 8 | 7 10 52 | 17°32'41 | 18°29'18 | 0°22'23 | 3°45'34 | 5°53'15 | 15°43'15 | 19°35'19 | 19°21'21 | 7°43'19 | 0°17'17 | 21°05'23 | 21°05'36 | 28°00'27 | 3°35'14 | M 8 |
| T 9 | 7 14 48 | 18°33'48 | 0°22'23 | 1°59'05 | 5°00'06 | 6°34'15 | 15°52'15 | 19°37'19 | 19°24'24 | 7°42'19 | 0°17'17 | 21°05'23 | 21°05'32 | 28°00'33 | 3°41'14 | T 9 |
| W10 | 7 18 45 | 19°34'55 | 12°15'12 | 3°33'03 | 6°16'16 | 7°15'16 | 16°01'16 | 19°39'19 | 19°28'28 | 7°41'19 | 0°16'16 | 21°05'22 | 21°05'29 | 28°00'40 | 3°48'14 | W10 |
| T 11 | 7 22 42 | 20°36'01 | 24°15'15 | 5°08'07 | 7°31'17 | 7°56'16 | 16°10'16 | 19°41'19 | 19°31'31 | 7°40'19 | 0°16'16 | 21°05'22 | 21°05'26 | 28°00'47 | 3°54'14 | T 11 |
| F 12 | 7 26 38 | 21°37'08 | 6°11'25 | 6°42'08 | 8°46'18 | 8°38'16 | 16°18'18 | 19°44'19 | 19°34'34 | 7°39'19 | 0°16'16 | 21°05'22 | 21°05'23 | 28°00'54 | 4°01'14 | F 12 |
| S 13 | 7 30 35 | 22°38'14 | 18°49'18 | 8°14'10 | 10°02'09 | 9°19'16 | 16°27'16 | 19°46'19 | 19°37'37 | 7°38'19 | 0°16'16 | 21°05'22 | 21°05'20 | 29°00'00 | 4°07'14 | S 13 |
| S 14 | 7 34 31 | 23°39'21 | 1°02'28 | 9°46'11 | 11°17'10 | 10°00'16 | 16°35'16 | 19°48'19 | 19°40'40 | 7°37'19 | 0°16'16 | 21°05'23 | 21°05'17 | 29°00'07 | 4°14'14 | S 14 |
| M15 | 7 38 28 | 24°40'27 | 14°23'14 | 11°17'12 | 12°32'10 | 10°41'16 | 16°44'16 | 19°51'19 | 19°44'44 | 7°36'19 | 0°16'16 | 21°05'23 | 21°05'13 | 29°00'14 | 4°20'14 | M15 |
| T 16 | 7 42 24 | 25°41'33 | 27°36'12 | 12°45'13 | 13°48'11 | 11°22'16 | 16°52'16 | 19°53'19 | 19°47'47 | 7°34'19 | 0°16'16 | 21°05'23 | 21°05'10 | 29°00'20 | 4°26'14 | T 16 |
| W17 | 7 46 21 | 26°42'39 | 11°11'06 | 14°12'15 | 15°03'12 | 12°04'17 | 17°00'17 | 19°56'19 | 19°50'50 | 7°33'19 | 0°16'16 | 21°05'22 | 21°05'07 | 29°00'27 | 4°32'14 | W17 |
| T 18 | 7 50 17 | 27°43'45 | 24°49'15 | 15°37'16 | 16°19'12 | 12°45'17 | 17°08'17 | 19°59'19 | 19°53'53 | 7°32'19 | 0°16'16 | 21°05'22 | 21°05'04 | 29°00'34 | 4°38'14 | T 18 |
| F 19 | 7 54 14 | 28°44'51 | 8°17'45 | 16°58'17 | 17°34'13 | 13°26'17 | 17°15'17 | 20°02'19 | 19°57'57 | 7°31'19 | 0°17'17 | 21°05'21 | 21°05'01 | 29°00'41 | 4°44'14 | F 19 |
| S 20 | 7 58 11 | 29°45'56 | 22°48'18 | 18°16'18 | 18°49'14 | 14°07'17 | 17°23'17 | 20°05'19 | 20°00'00 | 7°30'19 | 0°17'17 | 21°05'21 | 20°58'58 | 29°00'47 | 4°50'14 | S 20 |
| S 21 | 8 2 7 | 0°47'02 | 6°15'58 | 19°31'20 | 20°05'14 | 14°49'17 | 17°30'17 | 20°08'19 | 20°03'03 | 7°28'19 | 0°17'17 | 21°05'19 | 20°54'54 | 29°00'54 | 4°56'14 | S 21 |
| M22 | 8 6 4 | 1°48'08 | 21°10'20 | 20°40'21 | 21°20'15 | 15°30'17 | 17°38'17 | 20°11'19 | 20°07'07 | 7°27'19 | 0°17'17 | 21°05'18 | 20°51'51 | 0°08'08 | 5°02'14 | M22 |
| T 23 | 8 10 0 | 2°49'13 | 5°11'21 | 21°44'21 | 22°35'16 | 16°11'17 | 17°45'17 | 20°14'19 | 20°10'10 | 7°26'19 | 0°17'17 | 21°05'18 | 20°48'48 | 0°08'08 | 5°07'14 | T 23 |
| W24 | 8 13 57 | 3°50'19 | 19°31'22 | 22°42'23 | 23°51'16 | 16°52'17 | 17°52'17 | 20°18'19 | 20°14'14 | 7°25'19 | 0°17'17 | 21°05'18 | 20°45'45 | 0°14'14 | 5°13'14 | W24 |
| T 25 | 8 17 53 | 4°51'25 | 3°27'36 | 23°33'25 | 25°06'17 | 17°34'17 | 17°59'17 | 20°21'19 | 20°17'17 | 7°23'19 | 0°18'18 | 21°05'20 | 20°42'42 | 0°21'21 | 5°18'14 | T 25 |
| F 26 | 8 21 50 | 5°52'30 | 17°35'24 | 24°16'26 | 26°22'18 | 18°15'18 | 18°06'18 | 20°25'19 | 20°20'20 | 7°22'19 | 0°18'18 | 21°05'21 | 20°38'38 | 0°28'28 | 5°24'14 | F 26 |
| S 27 | 8 25 46 | 6°53'36 | 1°25'25 | 24°50'27 | 27°37'18 | 18°56'18 | 18°12'18 | 20°29'19 | 20°24'24 | 7°20'19 | 0°18'18 | 21°05'22 | 20°35'35 | 0°34'34 | 5°29'14 | S 27 |
| S 28 | 8 29 43 | 7°54'41 | 15°06'25 | 25°14'28 | 28°52'19 | 19°38'18 | 18°19'18 | 20°32'19 | 20°27'27 | 7°19'19 | 0°19'19 | 21°05'23 | 20°32'32 | 0°41'41 | 5°35'14 | S 28 |
| M29 | 8 33 40 | 8°55'45 | 28°34'25 | 25°28'28 | 0°28'08 | 20°19'18 | 18°25'18 | 20°36'19 | 20°31'31 | 7°18'19 | 0°19'19 | 21°05'23 | 20°29'29 | 0°48'48 | 5°40'14 | M29 |
| T 30 | 8 37 36 | 9°56'49 | 11°28'34 | 25°R31 | 1°23'21 | 21°00'18 | 18°31'18 | 20°40'19 | 20°34'34 | 7°16'19 | 0°19'19 | 21°05'22 | 20°26'26 | 0°55'55 | 5°45'14 | T 30 |
| W31 | 8 41 33 | 10°57'53 | 24°49'24 | 25°23'25 | 2°39'22 | 21°04'19 | 18°18'18 | 20°44'19 | 20°38'38 | 7°15'19 | 0°18'18 | 21°05'21 | 20°23'23 | 1°08'08 | 5°50'14 | W31 |

Delta T = 19m22s

FEBRUARY 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|----------|----------|---------|---------|------|
| T 1 | 8 45 29 | 11°58'55 | 7°33'33 | 25°R 2 | 3°54'38 | 22°07'23 | 18°18'43 | 20°07'48 | 20°41'41 | 7°19'13 | 0°18'20 | 21°05'17 | 20°31'19 | 1°08'08 | 5°27'55 | T 1 |
| F 2 | 8 49 26 | 12°59'57 | 20°01'20 | 24°33'21 | 5°09'05 | 23°04'23 | 18°49'43 | 20°52'48 | 20°45'45 | 7°18'12 | 0°20'20 | 21°05'13 | 20°16'19 | 1°15'15 | 6°00'00 | F 2 |
| S 3 | 8 53 22 | 14°0'58 | 2°07'17 | 23°48'23 | 6°25'25 | 23°45'23 | 18°55'43 | 20°57'57 | 20°48'48 | 7°17'10 | 0°21'21 | 21°05'09 | 20°13'13 | 1°21'21 | 6°05'05 | S 3 |
| S 4 | 8 57 19 | 15°1'58 | 14°21'14 | 22°56'22 | 7°40'40 | 24°27'24 | 19°00'00 | 21°01'01 | 20°52'52 | 7°09'09 | 0°21'21 | 21°05'06 | 20°10'10 | 1°28'28 | 6°09'09 | S 4 |
| M 5 | 9 1 15 | 16°2'56 | 26°16'16 | 21°55'21 | 8°56'56 | 25°08'25 | 19°05'05 | 21°06'06 | 20°55'55 | 7°07'07 | 0°22'22 | 21°05'03 | 20°07'07 | 1°35'35 | 6°14'14 | M 5 |
| T 6 | 9 5 12 | 17°3'54 | 8°08'08 | 20°48'20 | 10°11'10 | 25°49'25 | 19°10'10 | 21°10'10 | 20°59'59 | 7°06'06 | 0°22'22 | 21°05'01 | 20°04'04 | 1°42'42 | 6°18'18 | T 6 |
| W 7 | 9 9 9 | 18°4'51 | 20°01'20 | 19°36'19 | 11°26'26 | 26°30'26 | 19°15'15 | 21°15'15 | 21°02'02 | 7°04'04 | 0°23'23 | 21°05'01 | 20°00'00 | 1°48'48 | 6°23'23 | W 7 |
| T 8 | 9 13 5 | 19°5'47 | 2°11'00 | 18°21'18 | 12°42'27 | 27°12'27 | 19°20'20 | 21°20'20 | 21°06'06 | 7°03'03 | 0°23'23 | 21°05'02 | 19°57'57 | 1°55'55 | 6°27'27 | T 8 |
| F 9 | 9 17 2 | 20°6'41 | 14°08'14 | 17°06'17 | 13°57'27 | 27°53'27 | 19°25'25 | 21°24'24 | 21°09'09 | 7°01'01 | 0°24'24 | 21°05'03 | 19°54'54 | 2°02'02 | 6°31'31 | F 9 |
| S 10 | 9 20 58 | 21°7'34 | 26°32'26 | 15°53'15 | 15°12'15 | 28°34'28 | 19°29'29 | 21°29'29 | 21°13'13 | 6°59'59 | 0°25'25 | 21°05'05 | 19°51'51 | 2°09'09 | 6°35'35 | S 10 |
| S 11 | 9 24 55 | 22°8'26 | 9°05'15 | 14°44'14 | 16°28'16 | 29°16'29 | 19°33'33 | 21°34'34 | 21°16'16 | 6°58'58 | 0°25'25 | 21°05'07 | 19°48'48 | 2°15'15 | 6°39'39 | S 11 |
| M12 | 9 28 51 | 23°9'17 | 22°20'22 | 13°40'13 | 17°43'17 | 29°57'29 | 19°38'38 | 21°39'39 | 21°20'20 | 6°56'56 | 0°26'26 | 21°05'07 | 19°44'44 | 2°22'22 | 6°43'43 | M12 |
| T 13 | 9 32 48 | 24°10'07 | 5°02'48 | 12°42'12 | 18°58'18 | 0°38'38 | 19°41'41 | 21°44'44 | 21°23'23 | 6°55'55 | 0°27'27 | 21°05'06 | 19°41'41 | 2°29'29 | 6°47'47 | T 13 |
| W14 | 9 36 45 | 25°10'55 | 19°39'19 | 11°52'11 | 20°13'19 | 1°19'19 | 19°45'45 | 21°50'50 | 21°27'27 | 6°53'53 | 0°27'27 | 21°05'04 | 19°38'38 | 2°35'35 | 6°51'51 | W14 |
| T 15 | 9 40 41 | 26°11'42 | 3°17'49 | 11°10'11 | 21°29'29 | 2°00'00 | 19°49'49 | 21°55'55 | 21°30'30 | 6°51'51 | 0°28'28 | 20°59'59 | 19°35'35 | 2°42'42 | 6°55'55 | T 15 |
| F 16 | 9 44 38 | 27°12'28 | 18°15'18 | 10°36'10 | 22°44'22 | 2°42'22 | 19°52'52 | 22°00'00 | 21°34'34 | 6°50'50 | 0°29'29 | 20°54'54 | 19°32'32 | 2°49'49 | 6°58'58 | F 16 |
| S 17 | 9 48 34 | 28°13'13 | 2°15'49 | 10°11'10 | 23°59'23 | 3°23'23 | 19°55'55 | 22°05'05 | 21°37'37 | 6°48'48 | 0°29'29 | 20°48'48 | 19°29'29 | 2°56'56 | 7°02'02 | S 17 |
| S 18 | 9 52 31 | 29°13'57 | 17°25'17 | 9°54'09 | 25°15'25 | 4°04'04 | 19°58'58 | 22°11'11 | 21°40'40 | 6°46'46 | 0°30'30 | 20°42'42 | 19°25'25 | 3°02'02 | 7°05'05 | S 18 |
| M19 | 9 56 27 | 0°14'40 | 1°15'56 | 9°45'09 | 26°30'26 | 4°45'45 | 20°01'01 | 22°16'16 | 21°44'44 | 6°45'45 | 0°31'31 | 20°38'38 | 19°22'22 | 3°09'09 | 7°08'08 | M19 |
| T 20 | 10 0 24 | 1°15'22 | 16°19'16 | 9°D43 | 27°45'27 | 5°26'26 | 20°04'04 | 22°22'22 | 21°47'47 | 6°43'43 | 0°32'32 | 20°35'35 | 19°19'19 | 3°16'16 | 7°11'11 | T 20 |
| W21 | 10 4 20 | 2°16'03 | 0°27'28 | 9°49'09 | 29°00'29 | 6°07'07 | 20°06'06 | 22°28'28 | 21°51'51 | 6°41'41 | 0°32'32 | 20°D34 | 19°16'16 | 3°22'22 | 7°14'14 | W21 |
| T 22 | 10 8 17 | 3°16'43 | 14°24'14 | 10°01'10 | 0°16'16 | 6°48'48 | 20°09'09 | 22°34'34 | 21°54'54 | 6°40'40 | 0°33'33 | 20°34'34 | 19°13'13 | 3°29'29 | 7°17'17 | T 22 |
| F 23 | 10 12 13 | 4°17'22 | 28°05'28 | 10°20'10 | 1°31'31 | 7°29'29 | 20°11'11 | 22°39'39 | 21°58'58 | 6°38'38 | 0°34'34 | 20°36'36 | 19°10'10 | 3°36'36 | 7°20'20 | F 23 |
| S 24 | 10 16 10 | 5°18'00 | 11°33'33 | 10°44'10 | 2°46'24 | 8°10'10 | 20°13'13 | 22°45'45 | 22°01'01 | 6°36'36 | 0°35'35 | 20°37'37 | 19°06'06 | 3°43'43 | 7°23'23 | S 24 |
| S 25 | 10 20 7 | 6°18'37 | 24°48'24 | 11°14'11 | 4°01'01 | 8°51'01 | 20°15'15 | 22°51'51 | 22°05'05 | 6°35'35 | 0°36'36 | 20°R37 | 19°03'03 | 3°49'49 | 7°26'26 | S 25 |
| M26 | 10 24 3 | 7°19'12 | 7°55'12 | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2587
geocentric

MARCH 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|------|--------|-------|------|------|------|-----|
| T 1 | 10 35 53 | 10♋20'50 | 15♋54 | 13♉58 | 9♉ 2 | 11♉36 | 20♌20 | 23♈15 | 22♉18 | 6°R28 | 0♉40 | 20°R17 | 18♌50 | 4♌16 | 7♉35 | T 1 | |
| F 2 | 10 39 49 | 11°21'20 | 28°13 | 14°49 | 10°17 | 12°16 | 20°21 | 23°22 | 22°22 | 6♌26 | 0°41 | 20♌ 7 | 18°47 | 4°23 | 7°37 | F 2 | |
| S 3 | 10 43 46 | 12°21'48 | 10♈23 | 15°43 | 11°32 | 12°57 | 20°21 | 23°28 | 22°25 | 6°25 | 0°42 | 19°57 | 18°44 | 4°30 | 7°39 | S 3 | |
| S 4 | 10 47 42 | 13°22'14 | 22°24 | 16°40 | 12°47 | 13°38 | 20°22 | 23°34 | 22°28 | 6°23 | 0°43 | 19°47 | 18°41 | 4°36 | 7°41 | S 4 | |
| M 5 | 10 51 39 | 14°22'39 | 4♌18 | 17°40 | 14° 3 | 14°19 | 20°22 | 23°41 | 22°32 | 6°21 | 0°44 | 19°38 | 18°38 | 4°43 | 7°43 | M 5 | |
| T 6 | 10 55 36 | 15°23'02 | 16° 9 | 18°42 | 15°18 | 15° 0 | 20°R22 | 23°47 | 22°35 | 6°20 | 0°45 | 19°32 | 18°35 | 4°50 | 7°44 | T 6 | |
| W 7 | 10 59 32 | 16°23'23 | 28° 0 | 19°47 | 16°33 | 15°41 | 20°22 | 23°54 | 22°38 | 6°18 | 0°46 | 19°27 | 18°31 | 4°56 | 7°46 | W 7 | |
| T 8 | 11 3 29 | 17°23'42 | 9♌56 | 20°54 | 17°48 | 16°22 | 20°22 | 24° 0 | 22°41 | 6°16 | 0°47 | 19°25 | 18°28 | 5° 3 | 7°47 | T 8 | |
| F 9 | 11 7 25 | 18°23'59 | 22° 1 | 22° 3 | 19° 3 | 17° 3 | 20°21 | 24° 7 | 22°45 | 6°15 | 0°48 | 19°D25 | 18°25 | 5°10 | 7°49 | F 9 | |
| S 10 | 11 11 22 | 19°24'14 | 4♌21 | 23°14 | 20°18 | 17°44 | 20°21 | 24°13 | 22°48 | 6°13 | 0°49 | 19°26 | 18°22 | 5°17 | 7°50 | S 10 | |
| S 11 | 11 15 18 | 20°24'27 | 17° 1 | 24°27 | 21°33 | 18°24 | 20°20 | 24°20 | 22°51 | 6°11 | 0°50 | 19°R26 | 18°19 | 5°23 | 7°51 | S 11 | |
| M12 | 11 19 15 | 21°24'39 | 0♌ 5 | 25°42 | 22°48 | 19° 5 | 20°19 | 24°27 | 22°54 | 6°10 | 0°51 | 19°26 | 18°16 | 5°30 | 7°52 | M12 | |
| T 13 | 11 23 11 | 22°24'48 | 13°37 | 26°59 | 24° 3 | 19°46 | 20°17 | 24°33 | 22°58 | 6° 8 | 0°52 | 19°23 | 18°12 | 5°37 | 7°53 | T 13 | |
| W14 | 11 27 8 | 23°24'55 | 27°37 | 28°17 | 25°18 | 20°27 | 20°16 | 24°40 | 23° 1 | 6° 7 | 0°53 | 19°18 | 18° 9 | 5°44 | 7°54 | W14 | |
| T 15 | 11 31 5 | 24°25'00 | 12♌ 3 | 29°37 | 26°33 | 21° 7 | 20°14 | 24°47 | 23° 4 | 6° 5 | 0°55 | 19°11 | 18° 6 | 5°50 | 7°54 | T 15 | |
| F 16 | 11 35 1 | 25°25'03 | 26°50 | 0♋58 | 27°48 | 21°48 | 20°13 | 24°54 | 23° 7 | 6° 3 | 0°56 | 19° 1 | 18° 3 | 5°57 | 7°55 | F 16 | |
| S 17 | 11 38 58 | 26°25'05 | 11♌50 | 2°21 | 29° 3 | 22°29 | 20°11 | 25° 1 | 23°10 | 6° 2 | 0°57 | 18°51 | 18° 0 | 6° 4 | 7°55 | S 17 | |
| S 18 | 11 42 54 | 27°25'05 | 26°53 | 3°45 | 0♈18 | 23° 9 | 20° 9 | 25° 8 | 23°13 | 6° 0 | 0°58 | 18°41 | 17°56 | 6°10 | 7°56 | S 18 | |
| M19 | 11 46 51 | 28°25'03 | 11♌50 | 5°10 | 1°32 | 23°50 | 20° 6 | 25°15 | 23°16 | 5°59 | 0°59 | 18°32 | 17°53 | 6°17 | 7°56 | M19 | |
| T 20 | 11 50 47 | 29°24'59 | 26°32 | 6°37 | 2°47 | 24°30 | 20° 4 | 25°22 | 23°19 | 5°57 | 1° 1 | 18°26 | 17°50 | 6°24 | 7°56 | T 20 | |
| W21 | 11 54 44 | 0♈24'54 | 10♈54 | 8° 5 | 4° 2 | 25°11 | 20° 1 | 25°29 | 23°22 | 5°56 | 1° 2 | 18°22 | 17°47 | 6°31 | 7°56 | W21 | |
| T 22 | 11 58 40 | 1°24'48 | 24°54 | 9°35 | 5°17 | 25°52 | 19°58 | 25°36 | 23°25 | 5°54 | 1° 3 | 18°21 | 17°44 | 6°37 | 7°56 | T 22 | |
| F 23 | 12 2 37 | 2°24'39 | 8♌32 | 11° 5 | 6°32 | 26°32 | 19°55 | 25°43 | 23°28 | 5°53 | 1° 4 | 18°D21 | 17°41 | 6°44 | 7°56 | F 23 | |
| S 24 | 12 6 34 | 3°24'30 | 21°50 | 12°37 | 7°47 | 27°13 | 19°52 | 25°50 | 23°31 | 5°51 | 1° 6 | 18°R21 | 17°37 | 6°51 | 7°55 | S 24 | |
| S 25 | 12 10 30 | 4°24'18 | 4♌50 | 14°10 | 9° 1 | 27°53 | 19°48 | 25°58 | 23°34 | 5°50 | 1° 7 | 18°20 | 17°34 | 6°57 | 7°55 | S 25 | |
| M26 | 12 14 27 | 5°24'05 | 17°36 | 15°45 | 10°16 | 28°33 | 19°45 | 26° 5 | 23°36 | 5°48 | 1° 8 | 18°17 | 17°31 | 7° 4 | 7°54 | M26 | |
| T 27 | 12 18 23 | 6°23'50 | 0♋10 | 17°21 | 11°31 | 29°14 | 19°41 | 26°12 | 23°39 | 5°47 | 1° 9 | 18°11 | 17°28 | 7°11 | 7°54 | T 27 | |
| W28 | 12 22 20 | 7°23'33 | 12°34 | 18°58 | 12°46 | 29°54 | 19°37 | 26°19 | 23°42 | 5°46 | 1°11 | 18° 2 | 17°25 | 7°18 | 7°53 | W28 | |
| T 29 | 12 26 16 | 8°23'14 | 24°49 | 20°36 | 14° 0 | 0♌35 | 19°33 | 26°27 | 23°45 | 5°44 | 1°12 | 17°50 | 17°21 | 7°24 | 7°52 | T 29 | |
| F 30 | 12 30 13 | 9°22'54 | 6♈57 | 22°15 | 15°15 | 1°15 | 19°29 | 26°34 | 23°47 | 5°43 | 1°13 | 17°36 | 17°18 | 7°31 | 7°51 | F 30 | |
| S 31 | 12 34 9 | 10♈22'31 | 18♈58 | 23♈56 | 16♈30 | 1♌55 | 19♌24 | 26♈41 | 23♈50 | 5♌42 | 1♌15 | 17♌22 | 17♌15 | 7♌38 | 7♌50 | S 31 | |

Delta T = 19m22s

APRIL 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|------|--------|-------|-------|-------|------|-----|
| S 1 | 12 38 6 | 11♈22'07 | 0♌54 | 25♋38 | 17♈44 | 2♌36 | 19°R20 | 26♈49 | 23♈53 | 5°R40 | 1♌16 | 17°R 8 | 17♌12 | 7♌44 | 7°R49 | S 1 | |
| M 2 | 12 42 2 | 12°21'40 | 12°46 | 27°21 | 18°59 | 3°16 | 19♌15 | 26°56 | 23°55 | 5♌39 | 1°17 | 16♌55 | 17° 9 | 7°51 | 7°R48 | M 2 | |
| T 3 | 12 45 59 | 13°21'11 | 24°36 | 29° 6 | 20°14 | 3°56 | 19°10 | 27° 3 | 23°58 | 5°38 | 1°19 | 16°45 | 17° 6 | 7°58 | 7°46 | T 3 | |
| W 4 | 12 49 56 | 14°20'41 | 6♌27 | 0♈52 | 21°28 | 4°36 | 19° 5 | 27°11 | 24° 1 | 5°36 | 1°20 | 16°37 | 17° 2 | 8° 5 | 7°45 | W 4 | |
| T 5 | 12 53 52 | 15°20'08 | 18°21 | 2°39 | 22°43 | 5°17 | 19° 0 | 27°18 | 24° 3 | 5°35 | 1°21 | 16°33 | 16°59 | 8°11 | 7°43 | T 5 | |
| F 6 | 12 57 49 | 16°19'33 | 0♌25 | 4°27 | 23°57 | 5°57 | 18°54 | 27°26 | 24° 5 | 5°34 | 1°23 | 16°31 | 16°56 | 8°18 | 7°42 | F 6 | |
| S 7 | 13 1 45 | 17°18'55 | 12°41 | 6°17 | 25°12 | 6°37 | 18°49 | 27°33 | 24° 8 | 5°33 | 1°24 | 16°30 | 16°53 | 8°25 | 7°40 | S 7 | |
| S 8 | 13 5 42 | 18°18'15 | 25°17 | 8° 8 | 26°26 | 7°17 | 18°43 | 27°41 | 24°10 | 5°32 | 1°25 | 16°30 | 16°50 | 8°31 | 7°38 | S 8 | |
| M 9 | 13 9 38 | 19°17'33 | 8♌16 | 10° 1 | 27°41 | 7°57 | 18°38 | 27°48 | 24°13 | 5°31 | 1°27 | 16°29 | 16°47 | 8°38 | 7°36 | M 9 | |
| T 10 | 13 13 35 | 20°16'49 | 21°42 | 11°55 | 28°55 | 8°37 | 18°32 | 27°56 | 24°15 | 5°30 | 1°28 | 16°27 | 16°43 | 8°45 | 7°34 | T 10 | |
| W11 | 13 17 31 | 21°16'02 | 5♌39 | 13°50 | 0♌10 | 9°17 | 18°26 | 28° 3 | 24°17 | 5°28 | 1°30 | 16°22 | 16°40 | 8°52 | 7°32 | W11 | |
| T 12 | 13 21 28 | 22°15'13 | 20° 5 | 15°46 | 1°24 | 9°57 | 18°20 | 28°11 | 24°20 | 5°27 | 1°31 | 16°14 | 16°37 | 8°58 | 7°29 | T 12 | |
| F 13 | 13 25 25 | 23°14'22 | 4♌57 | 17°44 | 2°38 | 10°37 | 18°13 | 28°18 | 24°22 | 5°26 | 1°32 | 16° 4 | 16°34 | 9° 5 | 7°27 | F 13 | |
| S 14 | 13 29 21 | 24°13'28 | 20° 8 | 19°43 | 3°53 | 11°17 | 18° 7 | 28°26 | 24°24 | 5°25 | 1°34 | 15°53 | 16°31 | 9°12 | 7°25 | S 14 | |
| S 15 | 13 33 18 | 25°12'33 | 5♌26 | 21°44 | 5° 7 | 11°57 | 18° 1 | 28°33 | 24°26 | 5°24 | 1°35 | 15°42 | 16°27 | 9°18 | 7°22 | S 15 | |
| M16 | 13 37 14 | 26°11'36 | 20°41 | 23°45 | 6°21 | 12°37 | 17°54 | 28°41 | 24°28 | 5°23 | 1°37 | 15°32 | 16°24 | 9°25 | 7°19 | M16 | |
| T 17 | 13 41 11 | 27°10'37 | 5♋42 | 25°48 | 7°36 | 13°17 | 17°47 | 28°49 | 24°30 | 5°23 | 1°38 | 15°25 | 16°21 | 9°32 | 7°17 | T 17 | |
| W18 | 13 45 7 | 28° 9'36 | 20°21 | 27°51 | 8°50 | 13°57 | 17°41 | 28°56 | 24°32 | 5°22 | 1°39 | 15°21 | 16°18 | 9°38 | 7°14 | W18 | |
| T 19 | 13 49 4 | 29° 8'34 | 4♌34 | 29°56 | 10° 4 | 14°37 | 17°34 | 29° 4 | 24°34 | 5°21 | 1°41 | 15°19 | 16°15 | 9°45 | 7°11 | T 19 | |
| F 20 | 13 53 0 | 0♌ 7'30 | 18°20 | 2♌ 1 | 11°18 | 15°17 | 17°27 | 29°11 | 24°36 | 5°20 | 1°42 | 15°D19 | 16°12 | 9°52 | 7° 8 | F 20 | |
| S 21 | 13 56 57 | 1° 6'24 | 1♌40 | 4° 7 | 12°32 | 15°56 | 17°20 | 29°19 | 24°38 | 5°19 | 1°44 | 15°R19 | 16° 8 | 9°59 | 7° 5 | S 21 | |
| S 22 | 14 0 54 | 2° 5'16 | 14°38 | 6°13 | 13°47 | 16°36 | 17°13 | 29°26 | 24°40 | 5°18 | 1°45 | 15°18 | 16° 5 | 10° 5 | 7° 2 | S 22 | |
| M23 | 14 4 50 | 3° 4'07 | 27°17 | 8°19 | 15° 1 | 17°16 | 17° 6 | 29°34 | 24°42 | 5°18 | 1°46 | 15°16 | 16° 2 | 10°12 | 6°59 | M23 | |
| T 24 | 14 8 47 | 4° 2'56 | 9♋41 | 10°25 | 16°15 | 17°56 | 16°58 | 29°41 | 24°43 | 5°17 | 1°48 | 15°11 | 15°59 | 10°19 | 6°56 | T 24 | |
| W25 | 14 12 43 | 5° 1'43 | 21°54 | 12°31 | 17°29 | 18°35 | 16°51 | 29°49 | 24°45 | 5°16 | 1°49 | 15° 3 | 15°56 | 10°25 | 6°52 | W25 | |
| T 26 | 14 16 40 | 6° 0'28 | 3♈59 | 14°36 | 18°43 | 19°15 | 16°44 | 29°56 | 24°47 | 5°16 | 1°51 | 14°53 | 15°53 | 10°32 | 6°49 | T 26 | |
| F 27 | 14 20 36 | 6°59'12 | 15°58 | 16°40 | 19°57 | 19°55 | 16°36 | 0♌ 4 | 24°48 | 5°15 | 1°52 | 14°41 | 15°49 | 10°39 | 6°45 | F 27 | |
| S 28 | 14 24 33 | 7°57'54 | 27°52 | 18°42 | 21°11 | 20°34 | 16°29 | 0°11 | 24°50 | 5°14 | 1°53 | 14°28 | 15°46 | 10°46 | 6°42 | S 28 | |
| S 29 | 14 28 29 | 8°56'34 | 9♋44 | 20°43 | 22°25 | 21°14 | 16°21 | 0°19 | 24°51 | 5°14 | 1°55 | 14°16 | 15°43 | 10°52 | 6°38 | S 29 | |
| M30 | 14 32 26 | 9♌55'12 | 21♌35 | 22♌41 | 23♌39 | 21♌53 | 16♌14 | 0♌26 | 24♌53 | 5♌13 | 1♌56 | 14♌ 5 | 15♌40 | 10♌59 | 6♌35 | M30 | |

Delta T = 19m23s

ASTRODIENST EPHEMERIS for the year 2587
geocentric

MAY 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|------|--------|-------|------|--------|-------|-------|-------|------|
| T 1 | 14 36 23 | 10♄53'48 | 3♂26 | 24♄38 | 24♄53 | 22♂33 | 16°R 6 | 0♄34 | 24♄54 | 5°R13 | 1♄58 | 13°R55 | 15♄37 | 11♄ 6 | 6°R31 | T 1 |
| W 2 | 14 40 19 | 11°52'22 | 15°20 | 26°31 | 26° 7 | 23°12 | 15♄58 | 0°41 | 24°56 | 5♄12 | 1°59 | 13♄49 | 15°33 | 11°12 | 6♄27 | W 2 |
| T 3 | 14 44 16 | 12°50'54 | 27°18 | 28°22 | 27°21 | 23°52 | 15°51 | 0°49 | 24°57 | 5°12 | 2° 0 | 13°45 | 15°30 | 11°19 | 6°23 | T 3 |
| F 4 | 14 48 12 | 13°49'24 | 9♄25 | 0♂ 9 | 28°35 | 24°31 | 15°43 | 0°56 | 24°58 | 5°11 | 2° 2 | 13°D44 | 15°27 | 11°26 | 6°20 | F 4 |
| S 5 | 14 52 9 | 14°47'53 | 21°43 | 1°53 | 29°49 | 25°11 | 15°35 | 1° 4 | 24°59 | 5°11 | 2° 3 | 13°44 | 15°24 | 11°33 | 6°16 | S 5 |
| S 6 | 14 56 5 | 15°46'19 | 4♂18 | 3°34 | 1♂ 2 | 25°50 | 15°28 | 1°11 | 25° 1 | 5°11 | 2° 5 | 13°45 | 15°21 | 11°39 | 6°12 | S 6 |
| M 7 | 15 0 2 | 16°44'42 | 17°14 | 5°10 | 2°16 | 26°30 | 15°20 | 1°19 | 25° 2 | 5°10 | 2° 6 | 13°R45 | 15°18 | 11°46 | 6° 8 | M 7 |
| T 8 | 15 3 58 | 17°43'04 | 0♄34 | 6°43 | 3°30 | 27° 9 | 15°12 | 1°26 | 25° 3 | 5°10 | 2° 7 | 13°44 | 15°14 | 11°53 | 6° 3 | T 8 |
| W 9 | 15 7 55 | 18°41'24 | 14°22 | 8°11 | 4°44 | 27°48 | 15° 5 | 1°33 | 25° 4 | 5°10 | 2° 9 | 13°42 | 15°11 | 11°59 | 5°59 | W 9 |
| T 10 | 15 11 52 | 19°39'41 | 28°39 | 9°35 | 5°57 | 28°28 | 14°57 | 1°41 | 25° 5 | 5°10 | 2°10 | 13°37 | 15° 8 | 12° 6 | 5°55 | T 10 |
| F 11 | 15 15 48 | 20°37'57 | 13♄22 | 10°55 | 7°11 | 29° 7 | 14°50 | 1°48 | 25° 6 | 5°10 | 2°11 | 13°30 | 15° 5 | 12°13 | 5°51 | F 11 |
| S 12 | 15 19 45 | 21°36'10 | 28°25 | 12°11 | 8°25 | 29°46 | 14°42 | 1°55 | 25° 7 | 5° 9 | 2°13 | 13°23 | 15° 2 | 12°20 | 5°47 | S 12 |
| S 13 | 15 23 41 | 22°34'22 | 13♄41 | 13°22 | 9°38 | 0♄26 | 14°34 | 2° 2 | 25° 8 | 5° 9 | 2°14 | 13°15 | 14°58 | 12°26 | 5°43 | S 13 |
| M14 | 15 27 38 | 23°32'32 | 28°58 | 14°28 | 10°52 | 1° 5 | 14°27 | 2°10 | 25° 9 | 5° 9 | 2°15 | 13° 8 | 14°55 | 12°33 | 5°38 | M14 |
| T 15 | 15 31 34 | 24°30'41 | 14♄ 5 | 15°30 | 12° 6 | 1°44 | 14°19 | 2°17 | 25° 9 | 5° 9 | 2°17 | 13° 3 | 14°52 | 12°40 | 5°34 | T 15 |
| W16 | 15 35 31 | 25°28'48 | 28°54 | 16°28 | 13°19 | 2°23 | 14°12 | 2°24 | 25°10 | 5°D 9 | 2°18 | 13° 1 | 14°49 | 12°46 | 5°30 | W16 |
| T 17 | 15 39 27 | 26°26'53 | 13♄18 | 17°20 | 14°33 | 3° 2 | 14° 5 | 2°31 | 25°11 | 5° 9 | 2°19 | 13°D 0 | 14°46 | 12°53 | 5°25 | T 17 |
| F 18 | 15 43 24 | 27°24'57 | 27°15 | 18° 8 | 15°46 | 3°42 | 13°57 | 2°38 | 25°11 | 5° 9 | 2°21 | 13° 0 | 14°43 | 13° 0 | 5°21 | F 18 |
| S 19 | 15 47 21 | 28°23'00 | 10♄43 | 18°50 | 17° 0 | 4°21 | 13°50 | 2°45 | 25°12 | 5° 9 | 2°22 | 13° 2 | 14°39 | 13° 6 | 5°16 | S 19 |
| S 20 | 15 51 17 | 29°21'01 | 23°46 | 19°28 | 18°13 | 5° 0 | 13°43 | 2°53 | 25°12 | 5° 9 | 2°23 | 13°R 3 | 14°36 | 13°13 | 5°12 | S 20 |
| M21 | 15 55 14 | 0♂19'01 | 6♄27 | 20° 1 | 19°26 | 5°39 | 13°36 | 3° 0 | 25°13 | 5°10 | 2°25 | 13° 3 | 14°33 | 13°20 | 5° 8 | M21 |
| T 22 | 15 59 10 | 1°17'00 | 18°50 | 20°29 | 20°40 | 6°18 | 13°29 | 3° 7 | 25°13 | 5°10 | 2°26 | 13° 1 | 14°30 | 13°27 | 5° 3 | T 22 |
| W23 | 16 3 7 | 2°14'58 | 1° 0 | 20°52 | 21°53 | 6°57 | 13°22 | 3°13 | 25°14 | 5°10 | 2°27 | 12°58 | 14°27 | 13°33 | 4°59 | W23 |
| T 24 | 16 7 3 | 3°12'54 | 13° 0 | 21° 9 | 23° 6 | 7°36 | 13°15 | 3°20 | 25°14 | 5°10 | 2°28 | 12°52 | 14°24 | 13°40 | 4°54 | T 24 |
| F 25 | 16 11 0 | 4°10'49 | 24°54 | 21°22 | 24°20 | 8°15 | 13° 8 | 3°27 | 25°14 | 5°10 | 2°30 | 12°46 | 14°20 | 13°47 | 4°50 | F 25 |
| S 26 | 16 14 56 | 5° 8'42 | 6♄45 | 21°30 | 25°33 | 8°54 | 13° 1 | 3°34 | 25°14 | 5°11 | 2°31 | 12°39 | 14°17 | 13°53 | 4°45 | S 26 |
| S 27 | 16 18 53 | 6° 6'34 | 18°36 | 21°R33 | 26°46 | 9°33 | 12°55 | 3°41 | 25°15 | 5°11 | 2°32 | 12°32 | 14°14 | 14° 0 | 4°41 | S 27 |
| M28 | 16 22 50 | 7° 4'25 | 0♂28 | 21°31 | 28° 0 | 10°12 | 12°48 | 3°48 | 25°15 | 5°11 | 2°33 | 12°26 | 14°11 | 14° 7 | 4°36 | M28 |
| T 29 | 16 26 46 | 8° 2'15 | 12°23 | 21°25 | 29°13 | 10°51 | 12°42 | 3°54 | 25°15 | 5°12 | 2°34 | 12°22 | 14° 8 | 14°14 | 4°32 | T 29 |
| W30 | 16 30 43 | 9° 0'03 | 24°24 | 21°14 | 0♄26 | 11°30 | 12°36 | 4° 1 | 25°R15 | 5°12 | 2°36 | 12°18 | 14° 4 | 14°20 | 4°27 | W30 |
| T 31 | 16 34 39 | 9♂57'50 | 6♄32 | 20♂59 | 1♄39 | 12♄ 9 | 12♄30 | 4♄ 8 | 25♄15 | 5♄13 | 2♄37 | 12°D17 | 14♄ 1 | 14♄27 | 4♄23 | T 31 |

Delta T = 19m23s

JUNE 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|------|--------|------|------|--------|-------|-------|-------|------|
| F 1 | 16 38 36 | 10♂55'36 | 18♄49 | 20°R40 | 2♄52 | 12♄48 | 12°R24 | 4♄14 | 25°R15 | 5♄13 | 2♄38 | 12♄17 | 13♄58 | 14♄34 | 4°R19 | F 1 |
| S 2 | 16 42 32 | 11°53'20 | 1♂17 | 20♂17 | 4° 5 | 13°26 | 12♄18 | 4°21 | 25♄15 | 5°14 | 2°39 | 12°18 | 13°55 | 14°40 | 4♄14 | S 2 |
| S 3 | 16 46 29 | 12°51'02 | 14° 0 | 19°51 | 5°18 | 14° 5 | 12°12 | 4°27 | 25°14 | 5°14 | 2°40 | 12°20 | 13°52 | 14°47 | 4°10 | S 3 |
| M 4 | 16 50 26 | 13°48'43 | 27° 0 | 19°23 | 6°31 | 14°44 | 12° 6 | 4°34 | 25°14 | 5°15 | 2°41 | 12°21 | 13°49 | 14°54 | 4° 5 | M 4 |
| T 5 | 16 54 22 | 14°46'22 | 10♄20 | 18°53 | 7°44 | 15°23 | 12° 1 | 4°40 | 25°14 | 5°16 | 2°42 | 12°R22 | 13°45 | 15° 0 | 4° 1 | T 5 |
| W 6 | 16 58 19 | 15°44'00 | 24° 3 | 18°20 | 8°57 | 16° 2 | 11°55 | 4°47 | 25°14 | 5°16 | 2°43 | 12°22 | 13°42 | 15° 7 | 3°57 | W 6 |
| T 7 | 17 2 15 | 16°41'37 | 8♄ 8 | 17°47 | 10°10 | 16°40 | 11°50 | 4°53 | 25°13 | 5°17 | 2°45 | 12°20 | 13°39 | 15°14 | 3°53 | T 7 |
| F 8 | 17 6 12 | 17°39'12 | 22°36 | 17°13 | 11°23 | 17°19 | 11°45 | 4°59 | 25°13 | 5°18 | 2°46 | 12°18 | 13°36 | 15°21 | 3°48 | F 8 |
| S 9 | 17 10 8 | 18°36'45 | 7♄21 | 16°40 | 12°36 | 17°58 | 11°40 | 5° 5 | 25°12 | 5°19 | 2°47 | 12°15 | 13°33 | 15°27 | 3°44 | S 9 |
| S 10 | 17 14 5 | 19°34'18 | 22°19 | 16° 7 | 13°49 | 18°37 | 11°35 | 5°11 | 25°12 | 5°19 | 2°48 | 12°12 | 13°30 | 15°34 | 3°40 | S 10 |
| M11 | 17 18 1 | 20°31'49 | 7♄21 | 15°35 | 15° 2 | 19°15 | 11°31 | 5°18 | 25°11 | 5°20 | 2°49 | 12°10 | 13°26 | 15°41 | 3°36 | M11 |
| T 12 | 17 21 58 | 21°29'19 | 22°19 | 15° 5 | 16°15 | 19°54 | 11°26 | 5°24 | 25°11 | 5°21 | 2°50 | 12° 8 | 13°23 | 15°47 | 3°32 | T 12 |
| W13 | 17 25 55 | 22°26'48 | 7♄ 4 | 14°37 | 17°27 | 20°33 | 11°22 | 5°30 | 25°10 | 5°22 | 2°51 | 12°D 7 | 13°20 | 15°54 | 3°28 | W13 |
| T 14 | 17 29 51 | 23°24'16 | 21°29 | 14°12 | 18°40 | 21°11 | 11°18 | 5°35 | 25° 9 | 5°23 | 2°52 | 12° 7 | 13°17 | 16° 1 | 3°24 | T 14 |
| F 15 | 17 33 48 | 24°21'44 | 5♄29 | 13°50 | 19°53 | 21°50 | 11°14 | 5°41 | 25° 8 | 5°24 | 2°53 | 12° 8 | 13°14 | 16° 7 | 3°20 | F 15 |
| S 16 | 17 37 44 | 25°19'10 | 19° 4 | 13°32 | 21° 5 | 22°28 | 11°10 | 5°47 | 25° 8 | 5°25 | 2°54 | 12° 9 | 13°10 | 16°14 | 3°16 | S 16 |
| S 17 | 17 41 41 | 26°16'36 | 2♄13 | 13°17 | 22°18 | 23° 7 | 11° 6 | 5°53 | 25° 7 | 5°26 | 2°54 | 12°10 | 13° 7 | 16°21 | 3°12 | S 17 |
| M18 | 17 45 37 | 27°14'01 | 15° 0 | 13° 6 | 23°30 | 23°45 | 11° 2 | 5°59 | 25° 6 | 5°27 | 2°55 | 12°11 | 13° 4 | 16°28 | 3° 8 | M18 |
| T 19 | 17 49 34 | 28°11'26 | 27°26 | 13° 0 | 24°43 | 24°24 | 10°59 | 6° 4 | 25° 5 | 5°28 | 2°56 | 12°R12 | 13° 1 | 16°34 | 3° 4 | T 19 |
| W20 | 17 53 30 | 29° 8'50 | 9♄37 | 12°D58 | 25°56 | 25° 3 | 10°56 | 6°10 | 25° 4 | 5°29 | 2°57 | 12°11 | 12°58 | 16°41 | 3° 1 | W20 |
| T 21 | 17 57 27 | 0♄ 6'14 | 21°37 | 13° 0 | 27° 8 | 25°41 | 10°53 | 6°15 | 25° 3 | 5°30 | 2°58 | 12°11 | 12°55 | 16°48 | 2°57 | T 21 |
| F 22 | 18 1 24 | 1° 3'37 | 3♄30 | 13° 7 | 28°20 | 26°20 | 10°50 | 6°21 | 25° 2 | 5°31 | 2°59 | 12° 9 | 12°51 | 16°54 | 2°53 | F 22 |
| S 23 | 18 5 20 | 2° 1'00 | 15°21 | 13°19 | 29°33 | 26°58 | 10°47 | 6°26 | 25° 1 | 5°32 | 3° 0 | 12° 8 | 12°48 | 17° 1 | 2°50 | S 23 |
| S 24 | 18 9 17 | 2°58'22 | 27°12 | 13°35 | 0♄45 | 27°37 | 10°45 | 6°31 | 25° 0 | 5°34 | 3° 0 | 12° 7 | 12°45 | 17° 8 | 2°46 | S 24 |
| M25 | 18 13 13 | 3°55'44 | 9♂ 8 | 13°55 | 1°58 | 28°15 | 10°43 | 6°37 | 24°59 | 5°35 | 3° 1 | 12° 5 | 12°42 | 17°14 | 2°43 | M25 |
| T 26 | 18 17 10 | 4°53'05 | 21°10 | 14°20 | 3°10 | 28°53 | 10°40 | 6°42 | 24°57 | 5°36 | 3° 2 | 12° 5 | 12°39 | 17°21 | 2°40 | T 26 |
| W27 | 18 21 6 | 5°50'25 | 3♄21 | 14°50 | 4°22 | 29°32 | 10°38 | 6°47 | 24°56 | 5°37 | 3° 3 | 12° 4 | 12°36 | 17°28 | 2°37 | W27 |
| T 28 | 18 25 3 | 6°47'46 | 15°42 | 15°24 | 5°34 | 0♄10 | 10°37 | 6°52 | 24°55 | 5°39 | 3° 4 | 12°D 4 | 12°32 | 17°35 | 2°33 | T 28 |
| F 29 | 18 28 59 | 7°45'05 | 28°15 | 16° 2 | 6°47 | 0°49 | 10°35 | 6°57 | 24°53 | 5°40 | 3° 4 | 12° 4 | 12°29 | 17°41 | 2°30 | F 29 |
| S 30 | 18 32 56 | 8♄24'24 | 11♂ 1 | 16♂44 | 7♄59 | 1♂27 | 10♄34 | 7♄ 2 | 24♄52 | 5♄41 | 3♄ 5 | 12♄ 5 | 12♄26 | 17♄48 | 2♄27 | S 30 |

Delta T = 19m23s

ASTRODIENST EPHEMERIS for the year 2587
geocentric

JULY 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|------|--------|------|------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 18 36 53 | 9♄39'42 | 24♊1 | 17♂31 | 9♏11 | 2♏6 | 10°R32 | 7♄6 | 24°R51 | 5♎43 | 3♄6 | 12♄5 | 12♄23 | 17♄55 | 2°R24 | S 1 | | | | | | | | |
| M 2 | 18 40 49 | 10°37'00 | 7♎16 | 18°22 | 10°23 | 2°44 | 10♎31 | 7°11 | 24°49 | 5°44 | 3°6 | 12°5 | 12°20 | 18°1 | 2♄21 | M 2 | | | | | | | | |
| T 3 | 18 44 46 | 11°34'17 | 20°45 | 19°17 | 11°35 | 3°22 | 10°30 | 7°16 | 24°48 | 5°46 | 3°7 | 12°5 | 12°16 | 18°8 | 2°19 | T 3 | | | | | | | | |
| W 4 | 18 48 42 | 12°31'33 | 4♄31 | 20°16 | 12°47 | 4°1 | 10°30 | 7°20 | 24°46 | 5°47 | 3°8 | 12°R 5 | 12°13 | 18°15 | 2°16 | W 4 | | | | | | | | |
| T 5 | 18 52 39 | 13°28'49 | 18°31 | 21°19 | 13°59 | 4°39 | 10°29 | 7°25 | 24°44 | 5°49 | 3°8 | 12°D 5 | 12°10 | 18°21 | 2°13 | T 5 | | | | | | | | |
| F 6 | 18 56 35 | 14°26'04 | 2♎46 | 22°25 | 15°11 | 5°17 | 10°29 | 7°29 | 24°43 | 5°50 | 3°9 | 12°5 | 12°7 | 18°28 | 2°11 | F 6 | | | | | | | | |
| S 7 | 19 0 32 | 15°23'18 | 17°12 | 23°36 | 16°23 | 5°56 | 10°D29 | 7°34 | 24°41 | 5°52 | 3°9 | 12°6 | 12°4 | 18°35 | 2°8 | S 7 | | | | | | | | |
| S 8 | 19 4 28 | 16°20'32 | 1♄47 | 24°50 | 17°34 | 6°34 | 10°29 | 7°38 | 24°40 | 5°53 | 3°10 | 12°6 | 12°1 | 18°42 | 2°6 | S 8 | | | | | | | | |
| M 9 | 19 8 25 | 17°17'46 | 16°25 | 26°8 | 18°46 | 7°12 | 10°29 | 7°42 | 24°38 | 5°55 | 3°10 | 12°6 | 11°57 | 18°48 | 2°4 | M 9 | | | | | | | | |
| T 10 | 19 12 22 | 18°14'59 | 1♄0 | 27°30 | 19°58 | 7°51 | 10°29 | 7°46 | 24°36 | 5°56 | 3°11 | 12°7 | 11°54 | 18°55 | 2°2 | T 10 | | | | | | | | |
| W11 | 19 16 18 | 19°12'12 | 15°26 | 28°55 | 21°10 | 8°29 | 10°30 | 7°50 | 24°34 | 5°58 | 3°11 | 12°R 7 | 11°51 | 19°2 | 1°59 | W11 | | | | | | | | |
| T 12 | 19 20 15 | 20°9'25 | 29°39 | 0♄24 | 22°21 | 9°7 | 10°30 | 7°54 | 24°32 | 6°0 | 3°12 | 12°6 | 11°48 | 19°8 | 1°57 | T 12 | | | | | | | | |
| F 13 | 19 24 11 | 21°6'37 | 13♄33 | 1°57 | 23°33 | 9°45 | 10°31 | 7°58 | 24°31 | 6°1 | 3°12 | 12°6 | 11°45 | 19°15 | 1°55 | F 13 | | | | | | | | |
| S 14 | 19 28 8 | 22°3'50 | 27°6 | 3°33 | 24°44 | 10°24 | 10°32 | 8°2 | 24°29 | 6°3 | 3°13 | 12°5 | 11°42 | 19°22 | 1°54 | S 14 | | | | | | | | |
| S 15 | 19 32 4 | 23°1'03 | 10♄16 | 5°12 | 25°56 | 11°2 | 10°34 | 8°5 | 24°27 | 6°5 | 3°13 | 12°3 | 11°38 | 19°28 | 1°52 | S 15 | | | | | | | | |
| M16 | 19 36 1 | 23°58'16 | 23°5 | 6°55 | 27°7 | 11°40 | 10°35 | 8°9 | 24°25 | 6°6 | 3°13 | 12°2 | 11°35 | 19°35 | 1°50 | M16 | | | | | | | | |
| T 17 | 19 39 57 | 24°55'29 | 5♄34 | 8°41 | 28°18 | 12°18 | 10°37 | 8°12 | 24°23 | 6°8 | 3°14 | 12°1 | 11°32 | 19°42 | 1°49 | T 17 | | | | | | | | |
| W18 | 19 43 54 | 25°52'43 | 17°47 | 10°30 | 29°30 | 12°56 | 10°38 | 8°16 | 24°21 | 6°10 | 3°14 | 12°0 | 11°29 | 19°48 | 1°47 | W18 | | | | | | | | |
| T 19 | 19 47 51 | 26°49'57 | 29°48 | 12°22 | 0♎41 | 13°35 | 10°40 | 8°19 | 24°19 | 6°12 | 3°14 | 12°D 0 | 11°26 | 19°55 | 1°46 | T 19 | | | | | | | | |
| F 20 | 19 51 47 | 27°47'11 | 11♄42 | 14°17 | 1°52 | 14°13 | 10°43 | 8°22 | 24°17 | 6°14 | 3°15 | 12°0 | 11°22 | 20°2 | 1°45 | F 20 | | | | | | | | |
| S 21 | 19 55 44 | 28°44'26 | 23°33 | 16°14 | 3°3 | 14°51 | 10°45 | 8°25 | 24°15 | 6°15 | 3°15 | 12°1 | 11°19 | 20°9 | 1°44 | S 21 | | | | | | | | |
| S 22 | 19 59 40 | 29°41'41 | 5♂26 | 18°14 | 4°14 | 15°29 | 10°47 | 8°28 | 24°13 | 6°17 | 3°15 | 12°3 | 11°16 | 20°15 | 1°42 | S 22 | | | | | | | | |
| M23 | 20 3 37 | 0♏38'57 | 17°25 | 20°16 | 5°25 | 16°7 | 10°50 | 8°31 | 24°11 | 6°19 | 3°16 | 12°4 | 11°13 | 20°22 | 1°41 | M23 | | | | | | | | |
| T 24 | 20 7 33 | 1°36'13 | 29°34 | 22°20 | 6°36 | 16°46 | 10°53 | 8°34 | 24°9 | 6°21 | 3°16 | 12°5 | 11°10 | 20°29 | 1°41 | T 24 | | | | | | | | |
| W25 | 20 11 30 | 2°33'30 | 11♄56 | 24°25 | 7°47 | 17°24 | 10°56 | 8°37 | 24°6 | 6°23 | 3°16 | 12°R 6 | 11°7 | 20°35 | 1°40 | W25 | | | | | | | | |
| T 26 | 20 15 27 | 3°30'47 | 24°32 | 26°32 | 8°58 | 18°2 | 10°59 | 8°40 | 24°4 | 6°25 | 3°16 | 12°5 | 11°3 | 20°42 | 1°39 | T 26 | | | | | | | | |
| F 27 | 20 19 23 | 4°28'04 | 7♏24 | 28°39 | 10°9 | 18°40 | 11°2 | 8°42 | 24°2 | 6°27 | 3°16 | 12°4 | 11°0 | 20°49 | 1°39 | F 27 | | | | | | | | |
| S 28 | 20 23 20 | 5°25'22 | 20°33 | 0♏47 | 11°20 | 19°18 | 11°6 | 8°45 | 24°0 | 6°29 | 3°16 | 12°1 | 10°57 | 20°55 | 1°38 | S 28 | | | | | | | | |
| S 29 | 20 27 16 | 6°22'40 | 3♎56 | 2°55 | 12°31 | 19°56 | 11°10 | 8°47 | 23°58 | 6°31 | 3°16 | 11°58 | 10°54 | 21°2 | 1°38 | S 29 | | | | | | | | |
| M30 | 20 31 13 | 7°19'58 | 17°34 | 5°4 | 13°41 | 20°35 | 11°13 | 8°49 | 23°55 | 6°33 | 3°17 | 11°54 | 10°51 | 21°9 | 1°38 | M30 | | | | | | | | |
| T 31 | 20 35 9 | 8♏17'16 | 1♄23 | 7♏12 | 14♎52 | 21♏13 | 11♎17 | 8♄52 | 23°53 | 6♎35 | 3♄17 | 11♄51 | 10♄48 | 21♄15 | 1♄37 | T 31 | | | | | | | | |

Delta T = 19m24s

AUGUST 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| W 1 | 20 39 6 | 9♏14'35 | 15♄21 | 9♏19 | 16♎2 | 21♏51 | 11♎21 | 8♄54 | 23°R51 | 6♎37 | 3♄17 | 11°R48 | 10♄44 | 21♄22 | 1°D37 | W 1 | | | | | | | | |
| T 2 | 20 43 2 | 10°11'54 | 29°27 | 11°26 | 17°13 | 22°29 | 11°26 | 8°56 | 23°48 | 6°39 | 3°R17 | 11♄46 | 10°41 | 21°29 | 1♄37 | T 2 | | | | | | | | |
| F 3 | 20 46 59 | 11°9'14 | 13♎37 | 13°32 | 18°23 | 23°7 | 11°30 | 8°57 | 23°46 | 6°41 | 3°17 | 11°D46 | 10°38 | 21°36 | 1°38 | F 3 | | | | | | | | |
| S 4 | 20 50 55 | 12°6'33 | 27°51 | 15°37 | 19°33 | 23°45 | 11°35 | 8°59 | 23°44 | 6°43 | 3°17 | 11°47 | 10°35 | 21°42 | 1°38 | S 4 | | | | | | | | |
| S 5 | 20 54 52 | 13°3'53 | 12♄5 | 17°41 | 20°44 | 24°23 | 11°40 | 9°1 | 23°41 | 6°45 | 3°17 | 11°48 | 10°32 | 21°49 | 1°38 | S 5 | | | | | | | | |
| M 6 | 20 58 49 | 14°1'14 | 26°17 | 19°43 | 21°54 | 25°1 | 11°45 | 9°3 | 23°39 | 6°47 | 3°17 | 11°49 | 10°28 | 21°56 | 1°39 | M 6 | | | | | | | | |
| T 7 | 21 2 45 | 14°58'35 | 10♄26 | 21°44 | 23°4 | 25°40 | 11°50 | 9°4 | 23°37 | 6°49 | 3°16 | 11°R50 | 10°25 | 22°2 | 1°39 | T 7 | | | | | | | | |
| W 8 | 21 6 42 | 15°55'56 | 24°27 | 23°43 | 24°14 | 26°18 | 11°55 | 9°5 | 23°34 | 6°51 | 3°16 | 11°50 | 10°22 | 22°9 | 1°40 | W 8 | | | | | | | | |
| T 9 | 21 10 38 | 16°53'19 | 8♄17 | 25°41 | 25°24 | 26°56 | 12°0 | 9°7 | 23°32 | 6°53 | 3°16 | 11°47 | 10°19 | 22°16 | 1°41 | T 9 | | | | | | | | |
| F 10 | 21 14 35 | 17°50'41 | 21°54 | 27°38 | 26°33 | 27°34 | 12°6 | 9°8 | 23°30 | 6°55 | 3°16 | 11°43 | 10°16 | 22°22 | 1°42 | F 10 | | | | | | | | |
| S 11 | 21 18 31 | 18°48'05 | 5♄15 | 29°32 | 27°43 | 28°12 | 12°12 | 9°9 | 23°27 | 6°57 | 3°16 | 11°38 | 10°13 | 22°29 | 1°43 | S 11 | | | | | | | | |
| S 12 | 21 22 28 | 19°45'29 | 18°18 | 1♎25 | 28°53 | 28°50 | 12°18 | 9°10 | 23°25 | 7°0 | 3°16 | 11°32 | 10°9 | 22°36 | 1°44 | S 12 | | | | | | | | |
| M13 | 21 26 25 | 20°42'55 | 1♄3 | 3°17 | 0♄2 | 29°28 | 12°24 | 9°11 | 23°22 | 7°2 | 3°16 | 11°25 | 10°6 | 22°42 | 1°45 | M13 | | | | | | | | |
| T 14 | 21 30 21 | 21°40'21 | 13°31 | 5°7 | 1°12 | 0♎6 | 12°30 | 9°12 | 23°20 | 7°4 | 3°15 | 11°20 | 10°3 | 22°49 | 1°46 | T 14 | | | | | | | | |
| W15 | 21 34 18 | 22°37'49 | 25°44 | 6°55 | 2°21 | 0°44 | 12°36 | 9°12 | 23°18 | 7°6 | 3°15 | 11°15 | 10°0 | 22°56 | 1°47 | W15 | | | | | | | | |
| T 16 | 21 38 14 | 23°35'18 | 7♄45 | 8°42 | 3°30 | 1°22 | 12°42 | 9°13 | 23°15 | 7°8 | 3°15 | 11°12 | 9°57 | 23°2 | 1°49 | T 16 | | | | | | | | |
| F 17 | 21 42 11 | 24°32'48 | 19°38 | 10°27 | 4°40 | 2°1 | 12°49 | 9°13 | 23°13 | 7°10 | 3°14 | 11°D10 | 9°54 | 23°9 | 1°50 | F 17 | | | | | | | | |
| S 18 | 21 46 7 | 25°30'19 | 1♂29 | 12°11 | 5°49 | 2°39 | 12°56 | 9°14 | 23°10 | 7°13 | 3°14 | 11°10 | 9°50 | 23°16 | 1°52 | S 18 | | | | | | | | |
| S 19 | 21 50 4 | 26°27'52 | 13°22 | 13°53 | 6°58 | 3°17 | 13°2 | 9°14 | 23°8 | 7°15 | 3°14 | 11°11 | 9°47 | 23°23 | 1°54 | S 19 | | | | | | | | |
| M20 | 21 54 0 | 27°25'26 | 25°23 | 15°33 | 8°7 | 3°55 | 13°9 | 9°14 | 23°6 | 7°17 | 3°13 | 11°13 | 9°44 | 23°29 | 1°56 | M20 | | | | | | | | |
| T 21 | 21 57 57 | 28°23'01 | 7♄36 | 17°12 | 9°16 | 4°33 | 13°16 | 9°R14 | 23°3 | 7°19 | 3°13 | 11°R14 | 9°41 | 23°36 | 1°58 | T 21 | | | | | | | | |
| W22 | 22 1 54 | 29°20'38 | 20°5 | 18°50 | 10°24 | 5°11 | 13°24 | 9°14 | 23°1 | 7°21 | 3°13 | 11°13 | 9°38 | 23°43 | 2°0 | W22 | | | | | | | | |
| T 23 | 22 5 50 | 0♎18'16 | 2♏53 | 20°26 | 11°33 | 5°49 | 13°31 | 9°14 | 22°59 | 7°23 | 3°12 | 11°11 | 9°34 | 23°49 | 2°2 | T 23 | | | | | | | | |
| F 24 | 22 9 47 | 1°15'55 | 16°2 | 22°0 | 12°42 | 6°27 | 13°39 | 9°14 | 22°56 | 7°26 | 3°12 | 11°7 | 9°31 | 23°56 | 2°4 | F 24 | | | | | | | | |
| S 25 | 22 13 43 | 2°13'36 | 29°32 | 23°33 | 13°50 | 7°5 | 13°46 | 9°13 | 22°54 | 7°28 | 3°11 | 11°0 | 9°28 | 24°3 | 2°7 | S 25 | | | | | | | | |
| S 26 | 22 17 40 | 3°11'18 | 13♎22 | 25°4 | 14°58 | 7°44 | 13°54 | 9°13 | 22°52 | 7°30 | 3°11 | 10°52 | 9°25 | 24°9 | 2°9 | S 26 | | | | | | | | |
| M27 | 22 21 36 | 4°9'01 | 27°26 | 26°34 | 16°7 | 8°22 | 14°2 | 9°12 | 22°49 | 7°32 | 3°10 | 10°44 | 9°22 | 24°16 | 2°12 | M27 | | | | | | | | |
| T 28 | 22 25 33 | 5°6'45 | 11♄42 | 28°2 | 17°15 | 9°0 | 14°10 | 9°11 | 22°47 | 7°35 | 3°10 | 10°36 | 9°19 | 24°23 | 2°14 | T 28 | | | | | | | | |
| W29 | 22 29 29 | 6°4'30 | 26°2 | 29°29 | 18°23 | 9°38 | 14°18 | 9°11 | 22°45 | 7°37 | 3°9 | 10°29 | 9°15 | 24°29 | 2°17 | W29 | | | | | | | | |
| T 30 | 22 33 26 | 7°2'16 | 10♎23 | 0♄54 | 19°31 | 10°16 | 14°26 | 9°10 | 22°42 | 7°39 | 3°9 | 10°24 | 9°12 | 24°36 | 2°20 | T 30 | | | | | | | | |
| F 31 | 22 37 22 | 8♎0'04 | 24♎40 | 2♄18 | 20♄39 | 10♎54 | 14♎34 | 9♄9 | 22°40 | 7♎41 | 3♄8 | 10♄21 | 9♄9 | 24♄43 | 2♄23 | F 31 | | | | | | | | |

Delta T = 19m24s

ASTRODIENST EPHEMERIS for the year 2587
geocentric

SEPTEMBER 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|------|-------|--------|------|-------|------|------|---|---|---|---|---|---|---|-----|
| S 1 | 22 41 19 | 8♎57:52 | 8♌51 | 3♉40 | 21♉46 | 11♎32 | 14♎43 | 9°R 8 | 22°R38 | 7♎43 | 3°R 8 | 10°D20 | 9♌6 | 24♉49 | 2♌26 | S 1 | | | | | | | | |
| S 2 | 22 45 16 | 9°55'42 | 22°54 | 5° 0 | 22°54 | 12°11 | 14°52 | 9♌6 | 22°35 | 7°46 | 3♌7 | 10°R21 | 9° 3 | 24°56 | 2°29 | S 2 | | | | | | | | |
| M 3 | 22 49 12 | 10°53'33 | 6♌48 | 6°18 | 24° 1 | 12°49 | 15° 0 | 9° 5 | 22°33 | 7°48 | 3° 6 | 10°R21 | 9° 0 | 25° 3 | 2°32 | M 3 | | | | | | | | |
| T 4 | 22 53 9 | 11°51'25 | 20°33 | 7°35 | 25° 8 | 13°27 | 15° 9 | 9° 4 | 22°31 | 7°50 | 3° 6 | 10°21 | 8°56 | 25°10 | 2°36 | T 4 | | | | | | | | |
| W 5 | 22 57 5 | 12°49'18 | 4♌9 | 8°50 | 26°15 | 14° 5 | 15°18 | 9° 2 | 22°29 | 7°52 | 3° 5 | 10°19 | 8°53 | 25°16 | 2°39 | W 5 | | | | | | | | |
| T 6 | 23 1 2 | 13°47'12 | 17°35 | 10° 3 | 27°22 | 14°43 | 15°27 | 9° 1 | 22°27 | 7°55 | 3° 5 | 10°14 | 8°50 | 25°23 | 2°43 | T 6 | | | | | | | | |
| F 7 | 23 4 58 | 14°45'08 | 0♉50 | 11°14 | 28°29 | 15°21 | 15°36 | 8°59 | 22°24 | 7°57 | 3° 4 | 10° 6 | 8°47 | 25°30 | 2°46 | F 7 | | | | | | | | |
| S 8 | 23 8 55 | 15°43'05 | 13°52 | 12°23 | 29°36 | 15°59 | 15°45 | 8°57 | 22°22 | 7°59 | 3° 3 | 9°57 | 8°44 | 25°36 | 2°50 | S 8 | | | | | | | | |
| S 9 | 23 12 51 | 16°41'04 | 26°41 | 13°31 | 0♎43 | 16°38 | 15°55 | 8°55 | 22°20 | 8° 1 | 3° 2 | 9°45 | 8°40 | 25°43 | 2°54 | S 9 | | | | | | | | |
| M10 | 23 16 48 | 17°39'04 | 9♎16 | 14°35 | 1°49 | 17°16 | 16° 4 | 8°53 | 22°18 | 8° 3 | 3° 2 | 9°33 | 8°37 | 25°50 | 2°58 | M10 | | | | | | | | |
| T 11 | 23 20 45 | 18°37'06 | 21°37 | 15°38 | 2°55 | 17°54 | 16°14 | 8°51 | 22°16 | 8° 6 | 3° 1 | 9°22 | 8°34 | 25°56 | 3° 2 | T 11 | | | | | | | | |
| W12 | 23 24 41 | 19°35'10 | 3♌46 | 16°38 | 4° 1 | 18°32 | 16°23 | 8°49 | 22°14 | 8° 8 | 3° 0 | 9°13 | 8°31 | 26° 3 | 3° 6 | W12 | | | | | | | | |
| T 13 | 23 28 38 | 20°33'15 | 15°44 | 17°35 | 5° 7 | 19°10 | 16°33 | 8°47 | 22°12 | 8°10 | 2°59 | 9° 5 | 8°28 | 26°10 | 3°10 | T 13 | | | | | | | | |
| F 14 | 23 32 34 | 21°31'23 | 27°36 | 18°30 | 6°13 | 19°49 | 16°43 | 8°44 | 22°10 | 8°12 | 2°59 | 9° 0 | 8°25 | 26°16 | 3°14 | F 14 | | | | | | | | |
| S 15 | 23 36 31 | 22°29'32 | 9♎25 | 19°21 | 7°18 | 20°27 | 16°53 | 8°42 | 22° 8 | 8°14 | 2°58 | 8°58 | 8°21 | 26°23 | 3°18 | S 15 | | | | | | | | |
| S 16 | 23 40 27 | 23°27'44 | 21°16 | 20°10 | 8°24 | 21° 5 | 17° 3 | 8°39 | 22° 6 | 8°16 | 2°57 | 8°D57 | 8°18 | 26°30 | 3°23 | S 16 | | | | | | | | |
| M17 | 23 44 24 | 24°25'57 | 3♉16 | 20°55 | 9°29 | 21°43 | 17°13 | 8°37 | 22° 4 | 8°19 | 2°56 | 8°R57 | 8°15 | 26°36 | 3°27 | M17 | | | | | | | | |
| T 18 | 23 48 20 | 25°24'13 | 15°28 | 21°37 | 10°34 | 22°21 | 17°23 | 8°34 | 22° 2 | 8°21 | 2°55 | 8°57 | 8°12 | 26°43 | 3°32 | T 18 | | | | | | | | |
| W19 | 23 52 17 | 26°22'30 | 27°59 | 22°15 | 11°39 | 23° 0 | 17°34 | 8°31 | 22° 0 | 8°23 | 2°54 | 8°56 | 8° 9 | 26°50 | 3°36 | W19 | | | | | | | | |
| T 20 | 23 56 14 | 27°20'50 | 10♎52 | 22°48 | 12°43 | 23°38 | 17°44 | 8°28 | 21°59 | 8°25 | 2°53 | 8°52 | 8° 5 | 26°56 | 3°41 | T 20 | | | | | | | | |
| F 21 | 0 0 10 | 28°19'11 | 24°11 | 23°17 | 13°48 | 24°16 | 17°54 | 8°25 | 21°57 | 8°27 | 2°53 | 8°46 | 8° 2 | 27° 3 | 3°46 | F 21 | | | | | | | | |
| S 22 | 0 4 7 | 29°17'34 | 7♎55 | 23°42 | 14°52 | 24°55 | 18° 5 | 8°22 | 21°55 | 8°29 | 2°52 | 8°37 | 7°59 | 27°10 | 3°50 | S 22 | | | | | | | | |
| S 23 | 0 8 3 | 0♉15'59 | 22° 5 | 24° 1 | 15°56 | 25°33 | 18°16 | 8°19 | 21°53 | 8°31 | 2°51 | 8°27 | 7°56 | 27°16 | 3°55 | S 23 | | | | | | | | |
| M24 | 0 12 0 | 1°14'26 | 6♉33 | 24°15 | 17° 0 | 26°11 | 18°26 | 8°16 | 21°52 | 8°33 | 2°50 | 8°15 | 7°53 | 27°23 | 4° 0 | M24 | | | | | | | | |
| T 25 | 0 15 56 | 2°12'55 | 21°15 | 24°24 | 18° 4 | 26°49 | 18°37 | 8°12 | 21°50 | 8°36 | 2°49 | 8° 4 | 7°50 | 27°30 | 4° 5 | T 25 | | | | | | | | |
| W26 | 0 19 53 | 3°11'26 | 6♎1 | 24°R26 | 19° 7 | 27°28 | 18°48 | 8° 9 | 21°48 | 8°38 | 2°48 | 7°54 | 7°46 | 27°36 | 4°11 | W26 | | | | | | | | |
| T 27 | 0 23 49 | 4° 9'58 | 20°44 | 24°22 | 20°10 | 28° 6 | 18°59 | 8° 5 | 21°47 | 8°40 | 2°47 | 7°47 | 7°43 | 27°43 | 4°16 | T 27 | | | | | | | | |
| F 28 | 0 27 46 | 5° 8'32 | 5♌18 | 24°11 | 21°13 | 28°44 | 19°10 | 8° 2 | 21°45 | 8°42 | 2°46 | 7°42 | 7°40 | 27°50 | 4°21 | F 28 | | | | | | | | |
| S 29 | 0 31 43 | 6° 7'08 | 19°38 | 23°53 | 22°16 | 29°23 | 19°21 | 7°58 | 21°44 | 8°44 | 2°45 | 7°40 | 7°37 | 27°56 | 4°27 | S 29 | | | | | | | | |
| S 30 | 0 35 39 | 7° 5'45 | 3♌41 | 23♉28 | 23♎18 | 0♉1 | 19♎32 | 7♉55 | 21°42 | 8♎46 | 2♉44 | 7♉40 | 7♉34 | 28♉3 | 4♌32 | S 30 | | | | | | | | |

Delta T = 19m24s

OCTOBER 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|--------|------|-------|-------|------|-------|------|------|---|---|---|---|---|---|---|-----|
| M 1 | 0 39 36 | 8♉42 | 17♌29 | 22°R56 | 24♎20 | 0♉40 | 19♎44 | 7°R51 | 21°R41 | 8♎48 | 2°R43 | 7°R40 | 7♌31 | 28♉10 | 4♌37 | M 1 | | | | | | | | |
| T 2 | 0 43 32 | 9° 3'04 | 1♌1 | 22♉17 | 25°22 | 1°18 | 19°55 | 7♉47 | 21°39 | 8°50 | 2♉42 | 7♌39 | 7°27 | 28°17 | 4°43 | T 2 | | | | | | | | |
| W 3 | 0 47 29 | 10° 1'47 | 14°19 | 21°32 | 26°23 | 1°56 | 20° 7 | 7°43 | 21°38 | 8°52 | 2°41 | 7°36 | 7°24 | 28°23 | 4°49 | W 3 | | | | | | | | |
| T 4 | 0 51 25 | 11° 0'30 | 27°24 | 20°40 | 27°24 | 2°35 | 20°18 | 7°39 | 21°37 | 8°54 | 2°40 | 7°30 | 7°21 | 28°30 | 4°54 | T 4 | | | | | | | | |
| F 5 | 0 55 22 | 11°59'16 | 10♉18 | 19°42 | 28°25 | 3°13 | 20°30 | 7°35 | 21°35 | 8°56 | 2°39 | 7°21 | 7°18 | 28°37 | 5° 0 | F 5 | | | | | | | | |
| S 6 | 0 59 18 | 12°58'03 | 23° 0 | 18°40 | 29°26 | 3°52 | 20°41 | 7°31 | 21°34 | 8°58 | 2°38 | 7°10 | 7°15 | 28°43 | 5° 6 | S 6 | | | | | | | | |
| S 7 | 1 3 15 | 13°56'52 | 5♎32 | 17°35 | 0♌26 | 4°30 | 20°53 | 7°27 | 21°33 | 8°59 | 2°37 | 6°56 | 7°11 | 28°50 | 5°12 | S 7 | | | | | | | | |
| M 8 | 1 7 11 | 14°55'43 | 17°53 | 16°27 | 1°26 | 5° 8 | 21° 5 | 7°23 | 21°32 | 9° 1 | 2°35 | 6°43 | 7° 8 | 28°57 | 5°18 | M 8 | | | | | | | | |
| T 9 | 1 11 8 | 15°54'36 | 0♌4 | 15°20 | 2°25 | 5°47 | 21°16 | 7°18 | 21°31 | 9° 3 | 2°34 | 6°30 | 7° 5 | 29° 3 | 5°24 | T 9 | | | | | | | | |
| W10 | 1 15 5 | 16°53'31 | 12° 6 | 14°14 | 3°24 | 6°25 | 21°28 | 7°14 | 21°30 | 9° 5 | 2°33 | 6°18 | 7° 2 | 29°10 | 5°30 | W10 | | | | | | | | |
| T 11 | 1 19 1 | 17°52'28 | 24° 0 | 13°12 | 4°23 | 7° 4 | 21°40 | 7°10 | 21°29 | 9° 7 | 2°32 | 6° 9 | 6°59 | 29°17 | 5°36 | T 11 | | | | | | | | |
| F 12 | 1 22 58 | 18°51'28 | 5♎49 | 12°14 | 5°21 | 7°42 | 21°52 | 7° 6 | 21°28 | 9° 9 | 2°31 | 6° 2 | 6°56 | 29°23 | 5°42 | F 12 | | | | | | | | |
| S 13 | 1 26 54 | 19°50'29 | 17°37 | 11°23 | 6°19 | 8°21 | 22° 4 | 7° 1 | 21°27 | 9°10 | 2°30 | 5°59 | 6°52 | 29°30 | 5°49 | S 13 | | | | | | | | |
| S 14 | 1 30 51 | 20°49'33 | 29°27 | 10°40 | 7°17 | 8°59 | 22°16 | 6°57 | 21°26 | 9°12 | 2°29 | 5°57 | 6°49 | 29°37 | 5°55 | S 14 | | | | | | | | |
| M15 | 1 34 47 | 21°48'39 | 11♉24 | 10° 6 | 8°14 | 9°38 | 22°29 | 6°52 | 21°25 | 9°14 | 2°28 | 5°D57 | 6°46 | 29°43 | 6° 1 | M15 | | | | | | | | |
| T 16 | 1 38 44 | 22°47'48 | 23°34 | 9°42 | 9°10 | 10°16 | 22°41 | 6°48 | 21°25 | 9°16 | 2°27 | 5°R58 | 6°43 | 29°50 | 6° 8 | T 16 | | | | | | | | |
| W17 | 1 42 40 | 23°46'58 | 6♎2 | 9°29 | 10° 6 | 10°55 | 22°53 | 6°43 | 21°24 | 9°17 | 2°26 | 5°57 | 6°40 | 29°57 | 6°14 | W17 | | | | | | | | |
| T 18 | 1 46 37 | 24°46'11 | 18°53 | 9°D26 | 11° 2 | 11°34 | 23° 5 | 6°38 | 21°23 | 9°19 | 2°24 | 5°54 | 6°37 | 0♎3 | 6°21 | T 18 | | | | | | | | |
| F 19 | 1 50 34 | 25°45'26 | 2♎11 | 9°35 | 11°57 | 12°12 | 23°18 | 6°34 | 21°22 | 9°21 | 2°23 | 5°50 | 6°33 | 0°10 | 6°27 | F 19 | | | | | | | | |
| S 20 | 1 54 30 | 26°44'44 | 15°58 | 9°53 | 12°52 | 12°51 | 23°30 | 6°29 | 21°22 | 9°22 | 2°22 | 5°43 | 6°30 | 0°17 | 6°34 | S 20 | | | | | | | | |
| S 21 | 1 58 27 | 27°44'03 | 0♉14 | 10°22 | 13°46 | 13°29 | 23°43 | 6°24 | 21°21 | 9°24 | 2°21 | 5°33 | 6°27 | 0°23 | 6°40 | S 21 | | | | | | | | |
| M22 | 2 2 23 | 28°43'25 | 14°55 | 11° 0 | 14°39 | 14° 8 | 23°55 | 6°20 | 21°21 | 9°26 | 2°20 | 5°23 | 6°24 | 0°30 | 6°47 | M22 | | | | | | | | |
| T 23 | 2 6 20 | 29°42'49 | 29°53 | 11°46 | 15°32 | 14°47 | 24° 8 | 6°15 | 21°20 | 9°27 | 2°19 | 5°13 | 6°21 | 0°37 | 6°54 | T 23 | | | | | | | | |
| W24 | 2 10 16 | 0♎42'15 | 15♎0 | 12°41 | 16°24 | 15°25 | 24°20 | 6°10 | 21°20 | 9°29 | 2°18 | 5° 4 | 6°17 | 0°43 | 7° 1 | W24 | | | | | | | | |
| T 25 | 2 14 13 | 1°41'43 | 0♌6 | 13°43 | 17°16 | 16° 4 | 24°33 | 6° 6 | 21°20 | 9°30 | 2°16 | 4°57 | 6°14 | 0°50 | 7° 8 | T 25 | | | | | | | | |
| F 26 | 2 18 9 | 2°41'13 | 15° 0 | 14°51 | 18° 7 | 16°43 | 24°45 | 6° 1 | 21°19 | 9°32 | 2°15 | 4°53 | 6°11 | 0°57 | 7°15 | F 26 | | | | | | | | |
| S 27 | 2 22 6 | 3°40'44 | 29°37 | 16° 5 | 18°57 | 17°21 | 24°58 | 5°56 | 21°19 | 9°33 | 2°14 | 4°D52 | 6° 8 | 1° 3 | 7°21 | S 27 | | | | | | | | |
| S 28 | 2 26 3 | 4°40'18 | 13♌52 | 17°23 | 19°47 | 18° 0 | 25°11 | 5°51 | 21°19 | 9°35 | 2°13 | 4°52 | 6° 5 | 1°10 | 7°28 | S 28 | | | | | | | | |
| M29 | 2 29 59 | 5°39'53 | 27°44 | 18°46 | 20°36 | 18°39 | 25°24 | 5°46 | 21°19 | 9°36 | 2°12 | 4°53 | 6° 2 | 1°17 | 7°36 | M29 | | | | | | | | |
| T 30 | 2 33 56 | 6°39'29 | 11♉15 | 20°12 | 21°24 | 19°18 | 25°37 | 5°42 | 21°19 | 9°38 | 2°11 | 4°R53 | 5°58 | 1°23 | 7°43 | T 30 | | | | | | | | |
| W31 | 2 37 52 | 7♎39'08 | 24♉26 | 21♉41 | 22♌11 | 19♉56 | 25♎49 | 5♉37 | 21°D19 | 9♎39 | 2♉10 | 4♌51 | 5♌55 | 1♎30 | 7♌50 | W31 | | | | | | | | |

Delta T = 19m25s

ASTRODIENST EPHEMERIS for the year 2587
geocentric

NOVEMBER 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|-----|
| T 1 | 2 41 49 | 8♁38'48 | 7♂20 | 23♁13 | 22♂57 | 20♁35 | 26♁ 2 | 5°R32 | 21♁19 | 9♁40 | 2°R 8 | 4°R48 | 5♁52 | 1♁37 | 7♂57 | T 1 | |
| F 2 | 2 45 45 | 9°38'29 | 19°59 | 24°47 | 23°43 | 21°14 | 26°15 | 5♁27 | 21°19 | 9°42 | 2♁ 7 | 4♁42 | 5°49 | 1°43 | 8° 4 | F 2 | |
| S 3 | 2 49 42 | 10°38'13 | 2°V26 | 26°22 | 24°27 | 21°53 | 26°28 | 5°23 | 21°19 | 9°43 | 2° 6 | 4°33 | 5°46 | 1°50 | 8°11 | S 3 | |
| S 4 | 2 53 38 | 11°37'58 | 14°43 | 27°59 | 25°11 | 22°32 | 26°41 | 5°18 | 21°19 | 9°44 | 2° 5 | 4°24 | 5°42 | 1°57 | 8°18 | S 4 | |
| M 5 | 2 57 35 | 12°37'45 | 26°51 | 29°36 | 25°53 | 23°10 | 26°54 | 5°13 | 21°19 | 9°45 | 2° 4 | 4°13 | 5°39 | 2° 3 | 8°26 | M 5 | |
| T 6 | 3 1 32 | 13°37'33 | 8♁51 | 1♁15 | 26°34 | 23°49 | 27° 7 | 5° 8 | 21°20 | 9°47 | 2° 3 | 4° 4 | 5°36 | 2°10 | 8°33 | T 6 | |
| W 7 | 3 5 28 | 14°37'24 | 20°46 | 2°53 | 27°15 | 24°28 | 27°20 | 5° 4 | 21°20 | 9°48 | 2° 2 | 3°55 | 5°33 | 2°17 | 8°40 | W 7 | |
| T 8 | 3 9 25 | 15°37'17 | 2♁37 | 4°33 | 27°54 | 25° 7 | 27°33 | 4°59 | 21°20 | 9°49 | 2° 1 | 3°48 | 5°30 | 2°23 | 8°48 | T 8 | |
| F 9 | 3 13 21 | 16°37'12 | 14°25 | 6°12 | 28°32 | 25°46 | 27°46 | 4°54 | 21°21 | 9°50 | 1°59 | 3°44 | 5°27 | 2°30 | 8°55 | F 9 | |
| S 10 | 3 17 18 | 17°37'08 | 26°13 | 7°52 | 29° 9 | 26°25 | 27°59 | 4°50 | 21°21 | 9°51 | 1°58 | 3°42 | 5°23 | 2°37 | 9° 3 | S 10 | |
| S 11 | 3 21 14 | 18°37'07 | 8♁ 4 | 9°31 | 29°44 | 27° 4 | 28°12 | 4°45 | 21°22 | 9°52 | 1°57 | 3°D42 | 5°20 | 2°43 | 9°10 | S 11 | |
| M12 | 3 25 11 | 19°37'08 | 20° 2 | 11°10 | 0♁18 | 27°43 | 28°26 | 4°41 | 21°22 | 9°53 | 1°56 | 3°43 | 5°17 | 2°50 | 9°17 | M12 | |
| T 13 | 3 29 7 | 20°37'11 | 2♁11 | 12°50 | 0°51 | 28°22 | 28°39 | 4°36 | 21°23 | 9°54 | 1°55 | 3°44 | 5°14 | 2°57 | 9°25 | T 13 | |
| W14 | 3 33 4 | 21°37'16 | 14°37 | 14°29 | 1°23 | 29° 1 | 28°52 | 4°32 | 21°24 | 9°55 | 1°54 | 3°45 | 5°11 | 3° 3 | 9°32 | W14 | |
| T 15 | 3 37 1 | 22°37'23 | 27°23 | 16° 7 | 1°52 | 29°40 | 29° 5 | 4°27 | 21°24 | 9°56 | 1°53 | 3°R45 | 5° 8 | 3°10 | 9°40 | T 15 | |
| F 16 | 3 40 57 | 23°37'32 | 10♁35 | 17°46 | 2°21 | 0♁19 | 29°18 | 4°23 | 21°25 | 9°57 | 1°52 | 3°44 | 5° 4 | 3°17 | 9°48 | F 16 | |
| S 17 | 3 44 54 | 24°37'43 | 24°14 | 19°24 | 2°47 | 0°58 | 29°32 | 4°19 | 21°26 | 9°58 | 1°51 | 3°41 | 5° 1 | 3°23 | 9°55 | S 17 | |
| S 18 | 3 48 50 | 25°37'56 | 8♁23 | 21° 2 | 3°12 | 1°37 | 29°45 | 4°14 | 21°27 | 9°59 | 1°50 | 3°36 | 4°58 | 3°30 | 10° 3 | S 18 | |
| M19 | 3 52 47 | 26°38'11 | 22°59 | 22°40 | 3°36 | 2°16 | 29°58 | 4°10 | 21°28 | 10° 0 | 1°49 | 3°31 | 4°55 | 3°37 | 10°10 | M19 | |
| T 20 | 3 56 43 | 27°38'28 | 7♁58 | 24°17 | 3°57 | 2°55 | 0♁11 | 4° 6 | 21°29 | 10° 0 | 1°48 | 3°25 | 4°52 | 3°43 | 10°18 | T 20 | |
| W21 | 4 0 40 | 28°38'47 | 23°10 | 25°54 | 4°17 | 3°34 | 0°25 | 4° 2 | 21°30 | 10° 1 | 1°47 | 3°20 | 4°48 | 3°50 | 10°26 | W21 | |
| T 22 | 4 4 36 | 29°39'08 | 8♁26 | 27°30 | 4°34 | 4°13 | 0°38 | 3°58 | 21°31 | 10° 2 | 1°46 | 3°17 | 4°45 | 3°57 | 10°33 | T 22 | |
| F 23 | 4 8 33 | 0♁39'30 | 23°35 | 29° 7 | 4°50 | 4°52 | 0°51 | 3°54 | 21°32 | 10° 2 | 1°45 | 3°15 | 4°42 | 4° 3 | 10°41 | F 23 | |
| S 24 | 4 12 30 | 1°39'54 | 8♁29 | 0♁43 | 5° 4 | 5°32 | 1° 4 | 3°50 | 21°33 | 10° 3 | 1°44 | 3°D14 | 4°39 | 4°10 | 10°49 | S 24 | |
| S 25 | 4 16 26 | 2°40'19 | 23° 1 | 2°18 | 5°15 | 6°11 | 1°18 | 3°46 | 21°34 | 10° 4 | 1°43 | 3°15 | 4°36 | 4°17 | 10°56 | S 25 | |
| M26 | 4 20 23 | 3°40'45 | 7♁ 7 | 3°54 | 5°25 | 6°50 | 1°31 | 3°42 | 21°36 | 10° 4 | 1°42 | 3°17 | 4°33 | 4°23 | 11° 4 | M26 | |
| T 27 | 4 24 19 | 4°41'13 | 20°46 | 5°29 | 5°32 | 7°29 | 1°44 | 3°38 | 21°37 | 10° 5 | 1°41 | 3°18 | 4°29 | 4°30 | 11°12 | T 27 | |
| W28 | 4 28 16 | 5°41'42 | 4♁ 1 | 7° 4 | 5°36 | 8° 8 | 1°57 | 3°35 | 21°38 | 10° 5 | 1°40 | 3°R19 | 4°26 | 4°37 | 11°20 | W28 | |
| T 29 | 4 32 12 | 6°42'12 | 16°53 | 8°39 | 5°R39 | 8°48 | 2°11 | 3°31 | 21°40 | 10° 6 | 1°39 | 3°19 | 4°23 | 4°43 | 11°27 | T 29 | |
| F 30 | 4 36 9 | 7°42'44 | 29♁27 | 10♁13 | 5♁39 | 9♁27 | 2♁24 | 3♁27 | 21°41 | 10♁ 6 | 1♁38 | 3♁17 | 4♁20 | 4♁50 | 11♁35 | F 30 | |

Delta T = 19m25s

DECEMBER 2587

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|------|-------|-------|--------|-------|-------|------|------|-------|------|-----|
| S 1 | 4 40 5 | 8♁43'16 | 11°V45 | 11♂47 | 5°R36 | 10♁ 6 | 2♁37 | 3°R24 | 21°43 | 10♁ 7 | 1°R37 | 3°R14 | 4♁17 | 4♁57 | 11♂43 | S 1 | |
| S 2 | 4 44 2 | 9°43'50 | 23°53 | 13°21 | 5♁31 | 10°46 | 2°50 | 3♁21 | 21°44 | 10° 7 | 1♁36 | 3♁10 | 4°14 | 5° 3 | 11°50 | S 2 | |
| M 3 | 4 47 59 | 10°44'25 | 5♁51 | 14°55 | 5°24 | 11°25 | 3° 4 | 3°17 | 21°46 | 10° 7 | 1°36 | 3° 7 | 4°10 | 5°10 | 11°58 | M 3 | |
| T 4 | 4 51 55 | 11°45'02 | 17°45 | 16°29 | 5°14 | 12° 4 | 3°17 | 3°14 | 21°48 | 10° 8 | 1°35 | 3° 3 | 4° 7 | 5°17 | 12° 6 | T 4 | |
| W 5 | 4 55 52 | 12°45'39 | 29°35 | 18° 3 | 5° 2 | 12°44 | 3°30 | 3°11 | 21°49 | 10° 8 | 1°34 | 2°59 | 4° 4 | 5°23 | 12°14 | W 5 | |
| T 6 | 4 59 48 | 13°46'18 | 11♁23 | 19°36 | 4°47 | 13°23 | 3°43 | 3° 8 | 21°51 | 10° 8 | 1°33 | 2°57 | 4° 1 | 5°30 | 12°21 | T 6 | |
| F 7 | 5 3 45 | 14°46'59 | 23°13 | 21°10 | 4°30 | 14° 2 | 3°56 | 3° 5 | 21°53 | 10° 8 | 1°32 | 2°56 | 3°58 | 5°37 | 12°29 | F 7 | |
| S 8 | 5 7 41 | 15°47'41 | 5♁ 6 | 22°43 | 4°10 | 14°42 | 4° 9 | 3° 2 | 21°55 | 10° 9 | 1°32 | 2°D55 | 3°54 | 5°43 | 12°37 | S 8 | |
| S 9 | 5 11 38 | 16°48'24 | 17° 4 | 24°16 | 3°48 | 15°21 | 4°23 | 2°59 | 21°57 | 10° 9 | 1°31 | 2°56 | 3°51 | 5°50 | 12°44 | S 9 | |
| M10 | 5 15 35 | 17°49'08 | 29° 9 | 25°49 | 3°24 | 16° 1 | 4°36 | 2°57 | 21°59 | 10° 9 | 1°30 | 2°57 | 3°48 | 5°57 | 12°52 | M10 | |
| T 11 | 5 19 31 | 18°49'54 | 11♁25 | 27°22 | 2°58 | 16°40 | 4°49 | 2°54 | 22° 1 | 10° 9 | 1°29 | 2°59 | 3°45 | 6° 3 | 13° 0 | T 11 | |
| W12 | 5 23 28 | 19°50'41 | 23°55 | 28°55 | 2°30 | 17°20 | 5° 2 | 2°52 | 22° 3 | 10°R 9 | 1°29 | 3° 0 | 3°42 | 6°10 | 13° 8 | W12 | |
| T 13 | 5 27 24 | 20°51'29 | 6♁42 | 0♁28 | 2° 1 | 17°59 | 5°15 | 2°49 | 22° 5 | 10° 9 | 1°28 | 3° 1 | 3°39 | 6°17 | 13°15 | T 13 | |
| F 14 | 5 31 21 | 21°52'19 | 19°49 | 2° 1 | 1°29 | 18°39 | 5°28 | 2°47 | 22° 7 | 10° 9 | 1°27 | 3°R 1 | 3°35 | 6°23 | 13°23 | F 14 | |
| S 15 | 5 35 17 | 22°53'10 | 3♁19 | 3°33 | 0°57 | 19°18 | 5°41 | 2°45 | 22° 9 | 10° 9 | 1°27 | 3° 1 | 3°32 | 6°30 | 13°31 | S 15 | |
| S 16 | 5 39 14 | 23°54'03 | 17°14 | 5° 6 | 0°23 | 19°58 | 5°54 | 2°43 | 22°11 | 10° 9 | 1°26 | 3° 0 | 3°29 | 6°37 | 13°38 | S 16 | |
| M17 | 5 43 10 | 24°54'57 | 1♁34 | 6°39 | 29♁48 | 20°37 | 6° 7 | 2°41 | 22°13 | 10° 8 | 1°25 | 2°59 | 3°26 | 6°43 | 13°46 | M17 | |
| T 18 | 5 47 7 | 25°55'52 | 16°16 | 8°11 | 29°12 | 21°17 | 6°20 | 2°39 | 22°16 | 10° 8 | 1°25 | 2°58 | 3°23 | 6°50 | 13°53 | T 18 | |
| W19 | 5 51 4 | 26°56'48 | 1♁15 | 9°43 | 28°36 | 21°57 | 6°33 | 2°37 | 22°18 | 10° 8 | 1°24 | 2°58 | 3°20 | 6°57 | 14° 1 | W19 | |
| T 20 | 5 55 0 | 27°57'46 | 16°22 | 11°15 | 28° 0 | 22°36 | 6°45 | 2°35 | 22°20 | 10° 8 | 1°24 | 2°57 | 3°16 | 7° 3 | 14° 9 | T 20 | |
| F 21 | 5 58 57 | 28°58'44 | 1♁30 | 12°47 | 27°23 | 23°16 | 6°58 | 2°34 | 22°23 | 10° 8 | 1°23 | 2°D57 | 3°13 | 7°10 | 14°16 | F 21 | |
| S 22 | 6 2 53 | 29°59'44 | 16°29 | 14°19 | 26°47 | 23°56 | 7°11 | 2°32 | 22°25 | 10° 7 | 1°22 | 2°57 | 3°10 | 7°17 | 14°24 | S 22 | |
| S 23 | 6 6 50 | 1♁ 0'44 | 1♁10 | 15°50 | 26°11 | 24°35 | 7°24 | 2°31 | 22°27 | 10° 7 | 1°22 | 2°57 | 3° 7 | 7°23 | 14°31 | S 23 | |
| M24 | 6 10 46 | 2° 1'45 | 15°28 | 17°20 | 25°37 | 25°15 | 7°36 | 2°29 | 22°30 | 10° 7 | 1°21 | 2°58 | 3° 4 | 7°30 | 14°39 | M24 | |
| T 25 | 6 14 43 | 3° 2'46 | 29°19 | 18°51 | 25° 3 | 25°55 | 7°49 | 2°28 | 22°32 | 10° 6 | 1°21 | 2°R58 | 3° 0 | 7°37 | 14°46 | T 25 | |
| W26 | 6 18 39 | 4° 3'47 | 12♁44 | 20°20 | 24°30 | 26°35 | 8° 2 | 2°27 | 22°35 | 10° 6 | 1°21 | 2°58 | 2°57 | 7°43 | 14°54 | W26 | |
| T 27 | 6 22 36 | 5° 4'49 | 25°42 | 21°49 | 23°59 | 27°14 | 8°14 | 2°26 | 22°38 | 10° 5 | 1°20 | 2°57 | 2°54 | 7°50 | 15° 1 | T 27 | |
| F 28 | 6 26 33 | 6° 5'51 | 8°V19 | 23°16 | 23°29 | 27°54 | 8°27 | 2°25 | 22°40 | 10° 5 | 1°20 | 2°D57 | 2°51 | 7°57 | 15° 8 | F 28 | |
| S 29 | 6 30 29 | 7° 6'54 | 20°36 | 24°43 | 23° 1 | 28°34 | 8°39 | 2°25 | 22°43 | 10° 4 | 1°19 | 2°58 | 2°48 | 8° 3 | 15°16 | S 29 | |
| S 30 | 6 34 26 | 8° 7'57 | 2♁40 | 26° 8 | 22°35 | 29°14 | 8°52 | 2°24 | 22°46 | 10° 4 | 1°19 | 2°58 | 2°45 | 8°10 | 15°23 | S 30 | |
| M31 | 6 38 22 | 9♁ 9'00 | 14♁35 | 27♁32 | 22♁11 | 29♁54 | 9♁ 4 | 2♁23 | 22°48 | 10♁ 3 | 1♁19 | 2♁59 | 2♁41 | 8♁17 | 15♁30 | M31 | |

Delta T = 19m25s

ASTRODIENST EPHEMERIS for the year 2588
geocentric

JANUARY 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|------|-------|-------|------|-----|
| T 1 | 6 42 19 | 10♁10'04 | 26♁24 | 28♁53 | 21°R49 | 0♁133 | 9♁16 | 2°R23 | 22♁51 | 10°R 2 | 1°R18 | 2♁59 | 2♁38 | 8♁23 | 15♁38 | T 1 | |
| W 2 | 6 46 15 | 11°11'08 | 8♁12 | 0♁13 | 21♁29 | 1°13 | 9°29 | 2♁23 | 22°54 | 10♁2 | 1♁18 | 3° 0 | 2°35 | 8°30 | 15°45 | W 2 | |
| T 3 | 6 50 12 | 12°12'12 | 20° 2 | 1°29 | 21°12 | 1°53 | 9°41 | 2°23 | 22°57 | 10° 1 | 1°18 | 3° 1 | 2°32 | 8°36 | 15°52 | T 3 | |
| F 4 | 6 54 8 | 13°13'17 | 1♁56 | 2°42 | 20°57 | 2°33 | 9°53 | 2°D22 | 23° 0 | 10° 0 | 1°18 | 3°R 1 | 2°29 | 8°43 | 15°59 | F 4 | |
| S 5 | 6 58 5 | 14°14'21 | 13°57 | 3°52 | 20°45 | 3°13 | 10° 5 | 2°23 | 23° 2 | 9°59 | 1°17 | 3° 1 | 2°26 | 8°50 | 16° 6 | S 5 | |
| S 6 | 7 2 2 | 15°15'27 | 26° 7 | 4°57 | 20°35 | 3°53 | 10°17 | 2°23 | 23° 5 | 9°59 | 1°17 | 3° 0 | 2°22 | 8°56 | 16°13 | S 6 | |
| M 7 | 7 5 58 | 16°16'32 | 8♁27 | 5°57 | 20°28 | 4°33 | 10°29 | 2°23 | 23° 8 | 9°58 | 1°17 | 2°58 | 2°19 | 9° 3 | 16°20 | M 7 | |
| T 8 | 7 9 55 | 17°17'38 | 20°58 | 6°52 | 20°23 | 5°13 | 10°41 | 2°23 | 23°11 | 9°57 | 1°17 | 2°56 | 2°16 | 9°10 | 16°27 | T 8 | |
| W 9 | 7 13 51 | 18°18'44 | 3♁42 | 7°40 | 20°D20 | 5°53 | 10°53 | 2°24 | 23°14 | 9°56 | 1°17 | 2°54 | 2°13 | 9°16 | 16°34 | W 9 | |
| T 10 | 7 17 48 | 19°19'50 | 16°40 | 8°20 | 20°21 | 6°33 | 11° 5 | 2°24 | 23°17 | 9°55 | 1°16 | 2°52 | 2°10 | 9°23 | 16°41 | T 10 | |
| F 11 | 7 21 44 | 20°20'57 | 29°53 | 8°52 | 20°23 | 7°13 | 11°17 | 2°25 | 23°20 | 9°54 | 1°16 | 2°50 | 2° 6 | 9°30 | 16°48 | F 11 | |
| S 12 | 7 25 41 | 21°22'04 | 13♁22 | 9°15 | 20°28 | 7°53 | 11°28 | 2°26 | 23°23 | 9°53 | 1°16 | 2°49 | 2° 3 | 9°36 | 16°55 | S 12 | |
| S 13 | 7 29 37 | 22°23'12 | 27° 9 | 9°27 | 20°35 | 8°33 | 11°40 | 2°27 | 23°27 | 9°52 | 1°16 | 2°D49 | 2° 0 | 9°43 | 17° 2 | S 13 | |
| M14 | 7 33 34 | 23°24'20 | 11♁12 | 9°R29 | 20°45 | 9°13 | 11°52 | 2°28 | 23°30 | 9°51 | 1°16 | 2°50 | 1°57 | 9°50 | 17° 8 | M14 | |
| T 15 | 7 37 31 | 24°25'28 | 25°33 | 9°19 | 20°57 | 9°53 | 12° 3 | 2°29 | 23°33 | 9°50 | 1°D16 | 2°51 | 1°54 | 9°56 | 17°15 | T 15 | |
| W16 | 7 41 27 | 25°26'37 | 10♁ 7 | 8°57 | 21°11 | 10°34 | 12°14 | 2°30 | 23°36 | 9°49 | 1°16 | 2°52 | 1°51 | 10° 3 | 17°22 | W16 | |
| T 17 | 7 45 24 | 26°27'46 | 24°51 | 8°24 | 21°27 | 11°14 | 12°26 | 2°32 | 23°39 | 9°48 | 1°16 | 2°53 | 1°47 | 10°10 | 17°28 | T 17 | |
| F 18 | 7 49 20 | 27°28'55 | 9♁39 | 7°39 | 21°45 | 11°54 | 12°37 | 2°33 | 23°42 | 9°47 | 1°16 | 2°R54 | 1°44 | 10°16 | 17°35 | F 18 | |
| S 19 | 7 53 17 | 28°30'03 | 24°24 | 6°44 | 22° 5 | 12°34 | 12°48 | 2°35 | 23°46 | 9°46 | 1°16 | 2°52 | 1°41 | 10°23 | 17°41 | S 19 | |
| S 20 | 7 57 13 | 29°31'12 | 8♁59 | 5°39 | 22°27 | 13°14 | 12°59 | 2°36 | 23°49 | 9°45 | 1°16 | 2°50 | 1°38 | 10°30 | 17°48 | S 20 | |
| M21 | 8 1 10 | 0♁32'20 | 23°17 | 4°27 | 22°51 | 13°55 | 13°10 | 2°38 | 23°52 | 9°43 | 1°17 | 2°46 | 1°35 | 10°36 | 17°54 | M21 | |
| T 22 | 8 5 7 | 1°33'28 | 7♁12 | 3°11 | 23°17 | 14°35 | 13°21 | 2°40 | 23°55 | 9°42 | 1°17 | 2°41 | 1°32 | 10°43 | 18° 0 | T 22 | |
| W23 | 8 9 3 | 2°34'35 | 20°43 | 1°52 | 23°44 | 15°15 | 13°32 | 2°42 | 23°59 | 9°41 | 1°17 | 2°36 | 1°28 | 10°50 | 18° 7 | W23 | |
| T 24 | 8 13 0 | 3°35'41 | 3♁48 | 0°33 | 24°13 | 15°55 | 13°43 | 2°44 | 24° 2 | 9°40 | 1°17 | 2°32 | 1°25 | 10°56 | 18°13 | T 24 | |
| F 25 | 8 16 56 | 4°36'47 | 16°29 | 29♁16 | 24°44 | 16°36 | 13°53 | 2°46 | 24° 5 | 9°38 | 1°17 | 2°29 | 1°22 | 11° 3 | 18°19 | F 25 | |
| S 26 | 8 20 53 | 5°37'53 | 28°51 | 28° 4 | 25°16 | 17°16 | 14° 4 | 2°49 | 24° 9 | 9°37 | 1°18 | 2°28 | 1°19 | 11°10 | 18°25 | S 26 | |
| S 27 | 8 24 49 | 6°38'57 | 10♁56 | 26°58 | 25°49 | 17°56 | 14°14 | 2°51 | 24°12 | 9°36 | 1°18 | 2°D27 | 1°16 | 11°16 | 18°31 | S 27 | |
| M28 | 8 28 46 | 7°40'01 | 22°50 | 26° 0 | 26°24 | 18°37 | 14°25 | 2°54 | 24°15 | 9°34 | 1°18 | 2°29 | 1°12 | 11°23 | 18°37 | M28 | |
| T 29 | 8 32 42 | 8°41'04 | 4♁39 | 25°10 | 27° 1 | 19°17 | 14°35 | 2°56 | 24°19 | 9°33 | 1°18 | 2°30 | 1° 9 | 11°30 | 18°43 | T 29 | |
| W30 | 8 36 39 | 9°42'07 | 16°27 | 24°30 | 27°38 | 19°57 | 14°45 | 2°59 | 24°22 | 9°32 | 1°19 | 2°32 | 1° 6 | 11°36 | 18°49 | W30 | |
| T 31 | 8 40 36 | 10♁43'08 | 28♁18 | 23♁59 | 28♁17 | 20♁38 | 14♁55 | 3♁ 2 | 24♁26 | 9♁30 | 1♁19 | 2°R33 | 1♁ 3 | 11♁43 | 18♁54 | T 31 | |

Delta T = 19m26s

FEBRUARY 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|------|-----|
| F 1 | 8 44 32 | 11♁44'09 | 10♁18 | 23°R38 | 28♁57 | 21♁18 | 15♁ 5 | 3♁ 5 | 24♁29 | 9°R29 | 1♁19 | 2°R33 | 1♁ 0 | 11♁49 | 19♁ 0 | F 1 | |
| S 2 | 8 48 29 | 12°45'09 | 22°28 | 23♁25 | 29°38 | 21°59 | 15°15 | 3° 8 | 24°32 | 9♁27 | 1°20 | 2♁31 | 0°57 | 11°56 | 19° 6 | S 2 | |
| S 3 | 8 52 25 | 13°46'08 | 4♁51 | 23°D21 | 0♁21 | 22°39 | 15°25 | 3°11 | 24°36 | 9°26 | 1°20 | 2°27 | 0°53 | 12° 3 | 19°11 | S 3 | |
| M 4 | 8 56 22 | 14°47'06 | 17°29 | 23°25 | 1° 4 | 23°20 | 15°34 | 3°14 | 24°39 | 9°24 | 1°21 | 2°21 | 0°50 | 12° 9 | 19°17 | M 4 | |
| T 5 | 9 0 18 | 15°48'04 | 0♁21 | 23°36 | 1°49 | 24° 0 | 15°44 | 3°17 | 24°43 | 9°23 | 1°21 | 2°13 | 0°47 | 12°16 | 19°22 | T 5 | |
| W 6 | 9 4 15 | 16°49'00 | 13°28 | 23°54 | 2°34 | 24°41 | 15°53 | 3°21 | 24°46 | 9°21 | 1°22 | 2° 5 | 0°44 | 12°23 | 19°27 | W 6 | |
| T 7 | 9 8 11 | 17°49'56 | 26°48 | 24°19 | 3°21 | 25°21 | 16° 3 | 3°24 | 24°50 | 9°20 | 1°22 | 1°57 | 0°41 | 12°29 | 19°32 | T 7 | |
| F 8 | 9 12 8 | 18°50'51 | 10♁19 | 24°49 | 4° 8 | 26° 2 | 16°12 | 3°28 | 24°53 | 9°18 | 1°23 | 1°50 | 0°38 | 12°36 | 19°38 | F 8 | |
| S 9 | 9 16 5 | 19°51'46 | 24° 0 | 25°25 | 4°56 | 26°42 | 16°21 | 3°32 | 24°57 | 9°17 | 1°23 | 1°45 | 0°34 | 12°43 | 19°43 | S 9 | |
| S 10 | 9 20 1 | 20°52'40 | 7♁50 | 26° 6 | 5°45 | 27°23 | 16°30 | 3°36 | 25° 0 | 9°15 | 1°24 | 1°42 | 0°31 | 12°49 | 19°48 | S 10 | |
| M11 | 9 23 58 | 21°53'33 | 21°49 | 26°51 | 6°35 | 28° 3 | 16°39 | 3°39 | 25° 4 | 9°14 | 1°24 | 1°D41 | 0°28 | 12°56 | 19°53 | M11 | |
| T 12 | 9 27 54 | 22°54'26 | 5♁56 | 27°40 | 7°26 | 28°44 | 16°48 | 3°43 | 25° 7 | 9°12 | 1°25 | 1°42 | 0°25 | 13° 3 | 19°58 | T 12 | |
| W13 | 9 31 51 | 23°55'18 | 20° 9 | 28°32 | 8°17 | 29°25 | 16°56 | 3°47 | 25°11 | 9°10 | 1°26 | 1°43 | 0°22 | 13° 9 | 20° 2 | W13 | |
| T 14 | 9 35 47 | 24°56'09 | 4♁27 | 29°28 | 9°10 | 0♁ 5 | 17° 5 | 3°52 | 25°14 | 9° 9 | 1°26 | 1°R43 | 0°18 | 13°16 | 20° 7 | T 14 | |
| F 15 | 9 39 44 | 25°56'59 | 18°47 | 0♁27 | 10° 2 | 0°46 | 17°13 | 3°56 | 25°18 | 9° 7 | 1°27 | 1°42 | 0°15 | 13°23 | 20°12 | F 15 | |
| S 16 | 9 43 40 | 26°57'48 | 3♁ 6 | 1°28 | 10°56 | 1°26 | 17°22 | 4° 0 | 25°21 | 9° 6 | 1°28 | 1°38 | 0°12 | 13°29 | 20°16 | S 16 | |
| S 17 | 9 47 37 | 27°58'37 | 17°19 | 2°32 | 11°50 | 2° 7 | 17°30 | 4° 5 | 25°25 | 9° 4 | 1°28 | 1°32 | 0° 9 | 13°36 | 20°21 | S 17 | |
| M18 | 9 51 34 | 28°59'24 | 1♁20 | 3°39 | 12°45 | 2°48 | 17°38 | 4° 9 | 25°28 | 9° 2 | 1°29 | 1°23 | 0° 6 | 13°43 | 20°25 | M18 | |
| T 19 | 9 55 30 | 0♁ 0'09 | 15° 5 | 4°48 | 13°40 | 3°29 | 17°46 | 4°14 | 25°32 | 9° 1 | 1°30 | 1°13 | 0° 3 | 13°49 | 20°29 | T 19 | |
| W20 | 9 59 27 | 1° 0'54 | 28°30 | 5°58 | 14°36 | 4° 9 | 17°53 | 4°18 | 25°35 | 8°59 | 1°31 | 1° 3 | 29♁59 | 13°56 | 20°33 | W20 | |
| T 21 | 10 3 23 | 2° 1'37 | 11♁34 | 7°11 | 15°32 | 4°50 | 18° 1 | 4°23 | 25°39 | 8°57 | 1°31 | 0°52 | 29°56 | 14° 3 | 20°37 | T 21 | |
| F 22 | 10 7 20 | 3° 2'18 | 24°17 | 8°25 | 16°29 | 5°31 | 18° 8 | 4°28 | 25°42 | 8°56 | 1°32 | 0°44 | 29°53 | 14° 9 | 20°41 | F 22 | |
| S 23 | 10 11 16 | 4° 2'58 | 6♁40 | 9°41 | 17°27 | 6°12 | 18°16 | 4°33 | 25°46 | 8°54 | 1°33 | 0°38 | 29°50 | 14°16 | 20°45 | S 23 | |
| S 24 | 10 15 13 | 5° 3'37 | 18°47 | 10°58 | 18°24 | 6°52 | 18°23 | 4°38 | 25°49 | 8°52 | 1°34 | 0°34 | 29°47 | 14°22 | 20°49 | S 24 | |
| M25 | 10 19 9 | 6° 4'13 | 0♁42 | 12°17 | 19°23 | 7°33 | 18°30 | 4°43 | 25°52 | 8°51 | 1°35 | 0°33 | 29°44 | 14°29 | 20°53 | M25 | |
| T 26 | 10 23 6 | 7° 4'48 | 12°31 | 13°37 | 20°22 | 8°14 | 18°37 | 4°48 | 25°56 | 8°49 | 1°36 | 0°D33 | 29°40 | 14°36 | 20°57 | T 26 | |
| W27 | 10 27 2 | 8° 5'22 | 24°19 | 14°58 | 21°21 | 8°55 | 18°44 | 4°53 | 25°59 | 8°47 | 1°36 | 0°R33 | 29°37 | 14°42 | 21° 0 | W27 | |
| T 28 | 10 30 59 | 9° 5'54 | 6♁12 | 16°21 | 22°21 | 9°35 | 18°50 | 4°59 | 26° 3 | 8°46 | 1°37 | 0°33 | 29°34 | 14°49 | 21° 4 | T 28 | |
| F 29 | 10 34 56 | 10♁ 6'24 | 18♁14 | 17♁45 | 23♁21 | 10♁16 | 18♁57 | 5♁ 4 | 26♁ 6 | 8♁44 | 1♁38 | 0♁31 | 29♁31 | 14♁56 | 21♁ 7 | F 29 | |

Delta T = 19m26s

ASTRODIENST EPHEMERIS for the year 2588
geocentric

MARCH 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|------|------|-------|-------|-------|-------|-------|------|-----|
| S 1 | 10 38 52 | 11♋ 6'52 | 0♊31 | 19♍10 | 24♌21 | 10♌57 | 19♉ 3 | 5♌10 | 26♍10 | 8♌42 | 1♌39 | 0♌28 | 29♌28 | 15♌ 2 | 21♌10 | 21♌10 | S 1 | |
| S 2 | 10 42 49 | 12° 7'18 | 13° 5 | 20°36 | 25°22 | 11°38 | 19° 9 | 5°15 | 26°13 | 8♌41 | 1°40 | 0♌21 | 29°24 | 15° 9 | 21°13 | 21°13 | S 2 | |
| M 3 | 10 46 45 | 13° 7'43 | 25°58 | 22° 4 | 26°23 | 12°19 | 19°15 | 5°21 | 26°16 | 8°39 | 1°41 | 0°12 | 29°21 | 15°16 | 21°17 | 21°17 | M 3 | |
| T 4 | 10 50 42 | 14° 8'06 | 9♌11 | 23°32 | 27°25 | 13° 0 | 19°21 | 5°26 | 26°20 | 8°37 | 1°42 | 0° 0 | 29°18 | 15°22 | 21°20 | 21°20 | T 4 | |
| W 5 | 10 54 38 | 15° 8'27 | 22°41 | 25° 2 | 28°26 | 13°41 | 19°27 | 5°32 | 26°23 | 8°36 | 1°43 | 29♌48 | 29°15 | 15°29 | 21°22 | 21°22 | W 5 | |
| T 6 | 10 58 35 | 16° 8'47 | 6♌28 | 26°32 | 29°29 | 14°22 | 19°32 | 5°38 | 26°26 | 8°34 | 1°44 | 29°36 | 29°12 | 15°36 | 21°25 | 21°25 | T 6 | |
| F 7 | 11 2 31 | 17° 9'05 | 20°25 | 28° 4 | 0♌31 | 15° 3 | 19°38 | 5°44 | 26°30 | 8°32 | 1°45 | 29°25 | 29° 9 | 15°42 | 21°28 | 21°28 | F 7 | |
| S 8 | 11 6 28 | 18° 9'21 | 4♌30 | 29°37 | 1°34 | 15°43 | 19°43 | 5°50 | 26°33 | 8°31 | 1°46 | 29°17 | 29° 5 | 15°49 | 21°30 | 21°30 | S 8 | |
| S 9 | 11 10 25 | 19° 9'37 | 18°38 | 1♌10 | 2°37 | 16°24 | 19°48 | 5°56 | 26°36 | 8°29 | 1°47 | 29°11 | 29° 2 | 15°56 | 21°33 | 21°33 | S 9 | |
| M10 | 11 14 21 | 20° 9'51 | 2♌47 | 2°45 | 3°41 | 17° 5 | 19°53 | 6° 2 | 26°40 | 8°27 | 1°48 | 29° 8 | 28°59 | 16° 2 | 21°35 | 21°35 | M10 | |
| T 11 | 11 18 18 | 21°10'03 | 16°54 | 4°21 | 4°44 | 17°46 | 19°58 | 6° 8 | 26°43 | 8°26 | 1°50 | 29° 7 | 28°56 | 16° 9 | 21°38 | 21°38 | T 11 | |
| W12 | 11 22 14 | 22°10'14 | 0♌59 | 5°58 | 5°48 | 18°27 | 20° 2 | 6°14 | 26°46 | 8°24 | 1°51 | 29° 7 | 28°53 | 16°15 | 21°40 | 21°40 | W12 | |
| T 13 | 11 26 11 | 23°10'24 | 15° 0 | 7°36 | 6°52 | 19° 8 | 20° 7 | 6°20 | 26°49 | 8°22 | 1°52 | 29° 7 | 28°49 | 16°22 | 21°42 | 21°42 | T 13 | |
| F 14 | 11 30 7 | 24°10'32 | 28°57 | 9°15 | 7°57 | 19°49 | 20°11 | 6°26 | 26°53 | 8°21 | 1°53 | 29° 4 | 28°46 | 16°29 | 21°44 | 21°44 | F 14 | |
| S 15 | 11 34 4 | 25°10'38 | 12♌50 | 10°55 | 9° 2 | 20°30 | 20°15 | 6°33 | 26°56 | 8°19 | 1°54 | 28°59 | 28°43 | 16°35 | 21°46 | 21°46 | S 15 | |
| S 16 | 11 38 0 | 26°10'43 | 26°35 | 12°36 | 10° 7 | 21°11 | 20°19 | 6°39 | 26°59 | 8°18 | 1°55 | 28°51 | 28°40 | 16°42 | 21°48 | 21°48 | S 16 | |
| M17 | 11 41 57 | 27°10'46 | 10♌11 | 14°19 | 11°12 | 21°53 | 20°22 | 6°46 | 27° 2 | 8°16 | 1°56 | 28°40 | 28°37 | 16°49 | 21°49 | 21°49 | M17 | |
| T 18 | 11 45 54 | 28°10'48 | 23°35 | 16° 2 | 12°17 | 22°34 | 20°26 | 6°52 | 27° 5 | 8°14 | 1°58 | 28°27 | 28°34 | 16°55 | 21°51 | 21°51 | T 18 | |
| W19 | 11 49 50 | 29°10'47 | 6♌44 | 17°47 | 13°23 | 23°15 | 20°29 | 6°59 | 27° 8 | 8°13 | 1°59 | 28°14 | 28°30 | 17° 2 | 21°52 | 21°52 | W19 | |
| T 20 | 11 53 47 | 0♌10'45 | 19°32 | 14°28 | 23°56 | 20°32 | 20°32 | 7° 5 | 27°11 | 8°11 | 2° 0 | 28° 1 | 28°27 | 17° 9 | 21°54 | 21°54 | T 20 | |
| F 21 | 11 57 43 | 1°10'44 | 2♌11 | 21°19 | 15°34 | 24°37 | 20°35 | 7°12 | 27°14 | 8°10 | 2° 1 | 27°49 | 28°24 | 17°15 | 21°55 | 21°55 | F 21 | |
| S 22 | 12 1 40 | 2°10'34 | 14°31 | 23° 7 | 16°41 | 25°18 | 20°38 | 7°18 | 27°17 | 8° 8 | 2° 3 | 27°41 | 28°21 | 17°22 | 21°56 | 21°56 | S 22 | |
| S 23 | 12 5 36 | 3°10'25 | 26°36 | 24°56 | 17°47 | 25°59 | 20°41 | 7°25 | 27°20 | 8° 7 | 2° 4 | 27°35 | 28°18 | 17°29 | 21°57 | 21°57 | S 23 | |
| M24 | 12 9 33 | 4°10'15 | 8♌30 | 26°47 | 18°53 | 26°40 | 20°43 | 7°32 | 27°23 | 8° 5 | 2° 5 | 27°31 | 28°15 | 17°35 | 21°58 | 21°58 | M24 | |
| T 25 | 12 13 29 | 5°10'02 | 20°19 | 28°38 | 20° 0 | 27°21 | 20°46 | 7°39 | 27°26 | 8° 4 | 2° 6 | 27°30 | 28°11 | 17°42 | 21°59 | 21°59 | T 25 | |
| W26 | 12 17 26 | 6° 9'47 | 2♌ 7 | 0♌31 | 21° 7 | 28° 2 | 20°48 | 7°46 | 27°29 | 8° 2 | 2° 8 | 27°30 | 28° 8 | 17°49 | 22° 0 | W26 | | |
| T 27 | 12 21 23 | 7° 9'30 | 13°59 | 2°25 | 22°14 | 28°43 | 20°50 | 7°53 | 27°32 | 8° 1 | 2° 9 | 27°30 | 28° 5 | 17°55 | 22° 1 | T 27 | | |
| F 28 | 12 25 19 | 8° 9'11 | 26° 2 | 4°20 | 23°21 | 29°24 | 20°51 | 8° 0 | 27°35 | 8° 0 | 2°10 | 27°29 | 28° 2 | 18° 2 | 22° 1 | F 28 | | |
| S 29 | 12 29 16 | 9° 8'49 | 8♌20 | 6°16 | 24°28 | 0♌ 5 | 20°53 | 8° 7 | 27°38 | 7°58 | 2°11 | 27°26 | 27°59 | 18° 8 | 22° 1 | S 29 | | |
| S 30 | 12 33 12 | 10° 8'25 | 20°57 | 8°14 | 25°36 | 0°47 | 20°54 | 8°14 | 27°41 | 7°57 | 2°13 | 27°20 | 27°55 | 18°15 | 22° 2 | S 30 | | |
| M31 | 12 37 9 | 11♌ 7'59 | 3♌58 | 10♌12 | 26♌43 | 1♌28 | 20♌55 | 8♌21 | 27♌43 | 7♌55 | 2♌14 | 27♌12 | 27♌52 | 18♌22 | 22♌ 2 | M31 | | |

Delta T = 19m26s

APRIL 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|------|------|--------|-------|-------|--------|--------|------|-----|
| T 1 | 12 41 5 | 12♌ 7'31 | 17♌24 | 12♌11 | 27♌51 | 2♌ 9 | 20♌56 | 8♌28 | 27♌46 | 7♌54 | 2♌15 | 27°R 1 | 27♌49 | 18♌28 | 22♌ 2 | 22♌ 2 | T 1 | |
| W 2 | 12 45 2 | 13° 7'00 | 1♌12 | 14°11 | 28°59 | 2°50 | 20°57 | 8°35 | 27°49 | 7♌53 | 2°17 | 26♌50 | 27°46 | 18°35 | 22°R 2 | 22°R 2 | W 2 | |
| T 3 | 12 48 58 | 14° 6'28 | 15°21 | 16°12 | 0♌ 7 | 3°31 | 20°58 | 8°42 | 27°52 | 7°52 | 2°18 | 26°38 | 27°43 | 18°42 | 22° 2 | 22° 2 | T 3 | |
| F 4 | 12 52 55 | 15° 5'53 | 29°45 | 18°14 | 1°15 | 4°12 | 20°58 | 8°49 | 27°54 | 7°50 | 2°19 | 26°28 | 27°40 | 18°48 | 22° 2 | 22° 2 | F 4 | |
| S 5 | 12 56 51 | 16° 5'17 | 14♌17 | 20°16 | 2°23 | 4°53 | 20°58 | 8°56 | 27°57 | 7°49 | 2°21 | 26°20 | 27°36 | 18°55 | 22° 2 | 22° 2 | S 5 | |
| S 6 | 13 0 48 | 17° 4'39 | 28°50 | 22°19 | 3°32 | 5°34 | 20°R58 | 9° 4 | 27°59 | 7°48 | 2°22 | 26°14 | 27°33 | 19° 2 | 22° 1 | 22° 1 | S 6 | |
| M 7 | 13 4 45 | 18° 3'59 | 13♌20 | 24°21 | 4°40 | 6°16 | 20°58 | 9°11 | 28° 2 | 7°47 | 2°23 | 26°12 | 27°30 | 19° 8 | 22° 1 | 22° 1 | M 7 | |
| T 8 | 13 8 41 | 19° 3'18 | 27°41 | 26°24 | 5°49 | 6°57 | 20°58 | 9°18 | 28° 4 | 7°45 | 2°25 | 26°D11 | 27°27 | 19°15 | 22° 0 | 22° 0 | T 8 | |
| W 9 | 13 12 38 | 20° 2'34 | 11♌52 | 28°26 | 6°57 | 7°38 | 20°57 | 9°26 | 28° 7 | 7°44 | 2°26 | 26°12 | 27°24 | 19°22 | 22° 0 | 22° 0 | W 9 | |
| T 10 | 13 16 34 | 21° 1'49 | 25°51 | 0♌27 | 8° 6 | 8°19 | 20°57 | 9°33 | 28° 9 | 7°43 | 2°28 | 26°R12 | 27°21 | 19°28 | 21°59 | 21°59 | T 10 | |
| F 11 | 13 20 31 | 22° 1'02 | 9♌38 | 2°28 | 9°15 | 9° 0 | 20°56 | 9°40 | 28°12 | 7°42 | 2°29 | 26°10 | 27°17 | 19°35 | 21°58 | 21°58 | F 11 | |
| S 12 | 13 24 27 | 23° 0'14 | 23°13 | 4°26 | 10°24 | 9°41 | 20°55 | 9°48 | 28°14 | 7°41 | 2°30 | 26° 7 | 27°14 | 19°42 | 21°57 | 21°57 | S 12 | |
| S 13 | 13 28 24 | 23°59'24 | 6♌37 | 6°24 | 11°33 | 10°22 | 20°54 | 9°55 | 28°16 | 7°40 | 2°32 | 26° 1 | 27°11 | 19°48 | 21°56 | 21°56 | S 13 | |
| M14 | 13 32 20 | 24°58'31 | 19°49 | 8°18 | 12°42 | 11° 4 | 20°52 | 10° 3 | 28°19 | 7°39 | 2°33 | 25°52 | 27° 8 | 19°55 | 21°55 | 21°55 | M14 | |
| T 15 | 13 36 17 | 25°57'37 | 2♌49 | 10°11 | 13°52 | 11°45 | 20°50 | 10°10 | 28°21 | 7°38 | 2°35 | 25°42 | 27° 5 | 20° 1 | 21°53 | 21°53 | T 15 | |
| W16 | 13 40 14 | 26°56'42 | 15°37 | 12° 0 | 15° 1 | 12°26 | 20°49 | 10°18 | 28°23 | 7°37 | 2°36 | 25°31 | 27° 1 | 20° 8 | 21°52 | 21°52 | W16 | |
| T 17 | 13 44 10 | 27°55'44 | 28°11 | 13°47 | 16°11 | 13° 7 | 20°47 | 10°25 | 28°25 | 7°36 | 2°37 | 25°21 | 26°58 | 20°15 | 21°51 | 21°51 | T 17 | |
| F 18 | 13 48 7 | 28°54'44 | 10♌33 | 15°29 | 17°20 | 13°48 | 20°44 | 10°33 | 28°27 | 7°35 | 2°39 | 25°11 | 26°55 | 20°21 | 21°49 | 21°49 | F 18 | |
| S 19 | 13 52 3 | 29°53'42 | 22°43 | 17° 8 | 18°30 | 14°29 | 20°42 | 10°40 | 28°30 | 7°34 | 2°40 | 25° 4 | 26°52 | 20°28 | 21°47 | 21°47 | S 19 | |
| S 20 | 13 56 0 | 0♌52'38 | 4♌42 | 18°42 | 19°40 | 15°10 | 20°39 | 10°48 | 28°32 | 7°33 | 2°42 | 25° 0 | 26°49 | 20°35 | 21°46 | 21°46 | S 20 | |
| M21 | 13 59 56 | 1°51'32 | 16°34 | 20°12 | 20°49 | 15°51 | 20°37 | 10°55 | 28°34 | 7°32 | 2°43 | 24°57 | 26°46 | 20°41 | 21°44 | 21°44 | M21 | |
| T 22 | 14 3 53 | 2°50'24 | 28°21 | 21°38 | 21°59 | 16°32 | 20°34 | 11° 3 | 28°36 | 7°31 | 2°44 | 24°D57 | 26°42 | 20°48 | 21°42 | 21°42 | T 22 | |
| W23 | 14 7 49 | 3°49'14 | 10♌ 9 | 22°58 | 23° 9 | 17°13 | 20°31 | 11°10 | 28°37 | 7°31 | 2°46 | 24°58 | 26°39 | 20°55 | 21°40 | 21°40 | W23 | |
| T 24 | 14 11 46 | 4°48'02 | 22° 0 | 24°13 | 24°19 | 17°54 | 20°27 | 11°18 | 28°39 | 7°30 | 2°47 | 24°59 | 26°36 | 21° 1 | 21°38 | 21°38 | T 24 | |
| F 25 | 14 15 43 | 5°46'47 | 4♌ 2 | 25°23 | 25°29 | 18°35 | 20°24 | 11°26 | 28°41 | 7°29 | 2°49 | 25°R 0 | 26°33 | 21° 8 | 21°35 | 21°35 | F 25 | |
| S 26 | 14 19 39 | 6°45'30 | 16°18 | 26°28 | 26°39 | 19°16 | 20°20 | 11°33 | 28°43 | 7°29 | 2°50 | 24°59 | 26°30 | 21°15 | 21°33 | 21°33 | S 26 | |
| S 27 | 14 23 36 | 7°44'11 | 28°55 | 27°27 | 27°49 | 19°57 | 20°17 | 11°41 | 28°45 | 7°28 | 2°51 | 24°57 | 26°26 | 21°21 | 21°31 | 21°31 | S 27 | |
| M28 | 14 27 32 | 8°42'49 | 11♌56 | 28°20 | 29° 0 | 20°38 | 20°13 | 11°48 | 28°46 | 7°27 | 2°53 | 24°53 | 26°23 | 21°28 | 21°28 | 21°28 | M28 | |
| T 29 | 14 31 29 | 9°41'26 | 25°23 | 29° 8 | 0♌10 | 21°19 | 20° 9 | 11°56 | 28°48 | 7°27 | 2°54 | 24°47 | 26°20 | 21°34 | 21°26 | 21°26 | T 29 | |
| W30 | 14 35 25 | 10♌40'00 | 9♌18 | 29♌50 | 1♌20 | 22♌ 0 | 20♌ 4 | 12♌ 4 | 28♌50 | 7♌26 | 2♌56 | 24♌41 | 26♌17 | 21♌41 | 21♌23 | 21♌23 | W30 | |

Delta T = 19m27s

ASTRODIENST EPHEMERIS for the year 2588
geocentric

MAY 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|-------|------|--------|-------|-------|--------|------|---|---|---|---|---|---|-----|
| T 1 | 14 39 22 | 11♁38'32 | 23♁37 | 0♁26 | 2♁31 | 22♁41 | 20°R 0 | 12♁11 | 28♁51 | 7°R25 | 2♁57 | 24°R34 | 26♁14 | 21♁48 | 21°R21 | T 1 | | | | | | | |
| F 2 | 14 43 18 | 12°37'03 | 8♁17 | 0°56 | 3°41 | 23°22 | 19♁55 | 12°19 | 28°53 | 7♁25 | 2°58 | 24♁27 | 26°11 | 21°54 | 21♁18 | F 2 | | | | | | | |
| S 3 | 14 47 15 | 13°35'31 | 23° 9 | 1°21 | 4°52 | 24° 3 | 19°50 | 12°27 | 28°54 | 7°24 | 3° 0 | 24°23 | 26° 7 | 22° 1 | 21°15 | S 3 | | | | | | | |
| S 4 | 14 51 12 | 14°33'58 | 8♁ 6 | 1°39 | 6° 2 | 24°44 | 19°46 | 12°34 | 28°56 | 7°24 | 3° 1 | 24°20 | 26° 4 | 22° 8 | 21°12 | S 4 | | | | | | | |
| M 5 | 14 55 8 | 15°32'23 | 22°59 | 1°52 | 7°13 | 25°25 | 19°41 | 12°42 | 28°57 | 7°24 | 3° 3 | 24°D19 | 26° 1 | 22°14 | 21° 9 | M 5 | | | | | | | |
| T 6 | 14 59 5 | 16°30'47 | 7♁42 | 1°59 | 8°23 | 26° 5 | 19°35 | 12°50 | 28°59 | 7°23 | 3° 4 | 24°19 | 25°58 | 22°21 | 21° 6 | T 6 | | | | | | | |
| W 7 | 15 3 1 | 17°29'09 | 22° 9 | 2°R 0 | 9°34 | 26°46 | 19°30 | 12°57 | 29° 0 | 7°23 | 3° 5 | 24°21 | 25°55 | 22°28 | 21° 3 | W 7 | | | | | | | |
| T 8 | 15 6 58 | 18°27'29 | 6♁18 | 1°56 | 10°45 | 27°27 | 19°25 | 13° 5 | 29° 1 | 7°23 | 3° 7 | 24°22 | 25°52 | 22°34 | 21° 0 | T 8 | | | | | | | |
| F 9 | 15 10 54 | 19°25'48 | 20° 7 | 1°47 | 11°56 | 28° 8 | 19°19 | 13°12 | 29° 2 | 7°22 | 3° 8 | 24°R23 | 25°48 | 22°41 | 20°56 | F 9 | | | | | | | |
| S 10 | 15 14 51 | 20°24'05 | 3♁37 | 1°33 | 13° 7 | 28°48 | 19°13 | 13°20 | 29° 3 | 7°22 | 3° 9 | 24°22 | 25°45 | 22°48 | 20°53 | S 10 | | | | | | | |
| S 11 | 15 18 47 | 21°22'21 | 16°50 | 1°15 | 14°18 | 29°29 | 19° 7 | 13°28 | 29° 5 | 7°22 | 3°11 | 24°19 | 25°42 | 22°54 | 20°50 | S 11 | | | | | | | |
| M12 | 15 22 44 | 22°20'35 | 29°46 | 0°52 | 15°28 | 0♁10 | 19° 1 | 13°35 | 29° 6 | 7°22 | 3°12 | 24°16 | 25°39 | 23° 1 | 20°46 | M12 | | | | | | | |
| T 13 | 15 26 41 | 23°18'48 | 12♁28 | 0°25 | 16°40 | 0°50 | 18°55 | 13°43 | 29° 7 | 7°21 | 3°13 | 24°11 | 25°36 | 23° 8 | 20°43 | T 13 | | | | | | | |
| W14 | 15 30 37 | 24°17'00 | 24°57 | 29♁56 | 17°51 | 1°31 | 18°49 | 13°50 | 29° 8 | 7°21 | 3°15 | 24° 6 | 25°32 | 23°14 | 20°39 | W14 | | | | | | | |
| T 15 | 15 34 34 | 25°15'10 | 7♁14 | 29°23 | 19° 2 | 2°12 | 18°43 | 13°58 | 29° 9 | 7°21 | 3°16 | 24° 1 | 25°29 | 23°21 | 20°36 | T 15 | | | | | | | |
| F 16 | 15 38 30 | 26°13'18 | 19°22 | 28°49 | 20°13 | 2°52 | 18°36 | 14° 5 | 29° 9 | 7°21 | 3°17 | 23°57 | 25°26 | 23°27 | 20°32 | F 16 | | | | | | | |
| S 17 | 15 42 27 | 27°11'25 | 1♁21 | 28°13 | 21°24 | 3°33 | 18°30 | 14°13 | 29°10 | 7°D21 | 3°19 | 23°54 | 25°23 | 23°34 | 20°28 | S 17 | | | | | | | |
| S 18 | 15 46 23 | 28° 9'30 | 13°14 | 27°37 | 22°35 | 4°13 | 18°23 | 14°20 | 29°11 | 7°21 | 3°20 | 23°52 | 25°20 | 23°41 | 20°24 | S 18 | | | | | | | |
| M19 | 15 50 20 | 29° 7'33 | 25° 2 | 27° 0 | 23°46 | 4°53 | 18°16 | 14°28 | 29°12 | 7°21 | 3°21 | 23°D51 | 25°17 | 23°47 | 20°20 | M19 | | | | | | | |
| T 20 | 15 54 16 | 0♁ 5'35 | 6♁49 | 26°24 | 24°58 | 5°34 | 18° 9 | 14°35 | 29°12 | 7°21 | 3°23 | 23°52 | 25°13 | 23°54 | 20°17 | T 20 | | | | | | | |
| W21 | 15 58 13 | 1° 3'35 | 18°36 | 25°49 | 26° 9 | 6°14 | 18° 2 | 14°43 | 29°13 | 7°21 | 3°24 | 23°53 | 25°10 | 24° 1 | 20°13 | W21 | | | | | | | |
| T 22 | 16 2 10 | 2° 1'34 | 0♁29 | 25°16 | 27°20 | 6°54 | 17°55 | 14°50 | 29°14 | 7°21 | 3°25 | 23°55 | 25° 7 | 24° 7 | 20° 9 | T 22 | | | | | | | |
| F 23 | 16 6 6 | 2°59'30 | 12°32 | 24°45 | 28°32 | 7°34 | 17°48 | 14°58 | 29°14 | 7°22 | 3°26 | 23°57 | 25° 4 | 24°14 | 20° 5 | F 23 | | | | | | | |
| S 24 | 16 10 3 | 3°57'25 | 24°48 | 24°16 | 29°43 | 8°15 | 17°41 | 15° 5 | 29°15 | 7°22 | 3°28 | 23°58 | 25° 1 | 24°21 | 20° 1 | S 24 | | | | | | | |
| S 25 | 16 13 59 | 4°55'18 | 7♁22 | 23°51 | 0♁54 | 8°55 | 17°34 | 15°12 | 29°15 | 7°22 | 3°29 | 23°R58 | 24°58 | 24°27 | 19°57 | S 25 | | | | | | | |
| M26 | 16 17 56 | 5°53'09 | 20°19 | 23°30 | 2° 6 | 9°35 | 17°27 | 15°20 | 29°15 | 7°22 | 3°30 | 23°57 | 24°54 | 24°34 | 19°53 | M26 | | | | | | | |
| T 27 | 16 21 52 | 6°50'59 | 3♁41 | 23°12 | 3°17 | 10°15 | 17°19 | 15°27 | 29°16 | 7°23 | 3°31 | 23°56 | 24°51 | 24°41 | 19°48 | T 27 | | | | | | | |
| W28 | 16 25 49 | 7°48'47 | 17°31 | 22°59 | 4°29 | 10°55 | 17°12 | 15°34 | 29°16 | 7°23 | 3°32 | 23°54 | 24°48 | 24°47 | 19°44 | W28 | | | | | | | |
| T 29 | 16 29 45 | 8°46'33 | 1♁47 | 22°49 | 5°40 | 11°34 | 17° 4 | 15°41 | 29°16 | 7°23 | 3°34 | 23°52 | 24°45 | 24°54 | 19°40 | T 29 | | | | | | | |
| F 30 | 16 33 42 | 9°44'18 | 16°28 | 22°45 | 6°52 | 12°14 | 16°57 | 15°49 | 29°17 | 7°24 | 3°35 | 23°50 | 24°42 | 25° 0 | 19°36 | F 30 | | | | | | | |
| S 31 | 16 37 39 | 10♁42'01 | 1♁27 | 22°D44 | 8♁ 3 | 12♁54 | 16♁49 | 15♁56 | 29♁17 | 7♁24 | 3♁36 | 23♁49 | 24♁38 | 25♁ 7 | 19♁32 | S 31 | | | | | | | |

Delta T = 19m27s

JUNE 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|------|------|--------|-------|-------|--------|------|---|---|---|---|---|---|-----|
| S 1 | 16 41 35 | 11♁39'43 | 16♁36 | 22♁48 | 9♁15 | 13♁34 | 16°R42 | 16♁ 3 | 29♁17 | 7♁25 | 3♁37 | 23°D48 | 24♁35 | 25♁14 | 19°R27 | S 1 | | | | | | | |
| M 2 | 16 45 32 | 12°37'24 | 1♁35 | 22°57 | 10°27 | 14°13 | 16♁34 | 16°10 | 29°R17 | 7°25 | 3°38 | 23♁48 | 24°32 | 25°20 | 19♁23 | M 2 | | | | | | | |
| T 3 | 16 49 28 | 13°35'04 | 16°47 | 23°10 | 11°38 | 14°53 | 16°27 | 16°17 | 29°17 | 7°26 | 3°39 | 23°49 | 24°29 | 25°27 | 19°19 | T 3 | | | | | | | |
| W 4 | 16 53 25 | 14°32'42 | 1♁32 | 23°28 | 12°50 | 15°32 | 16°19 | 16°24 | 29°17 | 7°26 | 3°41 | 23°50 | 24°26 | 25°34 | 19°15 | W 4 | | | | | | | |
| T 5 | 16 57 21 | 15°30'20 | 15°56 | 23°50 | 14° 2 | 16°12 | 16°11 | 16°31 | 29°17 | 7°27 | 3°42 | 23°50 | 24°23 | 25°40 | 19°10 | T 5 | | | | | | | |
| F 6 | 17 1 18 | 16°27'56 | 29°55 | 24°16 | 15°14 | 16°51 | 16° 4 | 16°38 | 29°16 | 7°27 | 3°43 | 23°51 | 24°19 | 25°47 | 19° 6 | F 6 | | | | | | | |
| S 7 | 17 5 14 | 17°25'32 | 13♁30 | 24°47 | 16°25 | 17°30 | 15°56 | 16°45 | 29°16 | 7°28 | 3°44 | 23°R51 | 24°16 | 25°54 | 19° 2 | S 7 | | | | | | | |
| S 8 | 17 9 11 | 18°23'07 | 26°41 | 25°21 | 17°37 | 18° 9 | 15°48 | 16°52 | 29°16 | 7°29 | 3°45 | 23°51 | 24°13 | 26° 0 | 18°57 | S 8 | | | | | | | |
| M 9 | 17 13 8 | 19°20'41 | 9♁31 | 26° 0 | 18°49 | 18°48 | 15°41 | 16°59 | 29°16 | 7°29 | 3°46 | 23°51 | 24°10 | 26° 7 | 18°53 | M 9 | | | | | | | |
| T 10 | 17 17 4 | 20°18'14 | 22° 3 | 26°42 | 20° 1 | 19°27 | 15°33 | 17° 6 | 29°15 | 7°30 | 3°47 | 23°51 | 24° 7 | 26°14 | 18°49 | T 10 | | | | | | | |
| W11 | 17 21 1 | 21°15'47 | 4♁20 | 27°29 | 21°13 | 20° 6 | 15°26 | 17°13 | 29°15 | 7°31 | 3°48 | 23°50 | 24° 4 | 26°20 | 18°45 | W11 | | | | | | | |
| T 12 | 17 24 57 | 22°13'18 | 16°26 | 28°19 | 22°25 | 20°45 | 15°18 | 17°20 | 29°14 | 7°32 | 3°49 | 23°50 | 24° 0 | 26°27 | 18°40 | T 12 | | | | | | | |
| F 13 | 17 28 54 | 23°10'49 | 28°22 | 29°13 | 23°37 | 21°24 | 15°10 | 17°26 | 29°14 | 7°33 | 3°50 | 23°50 | 23°57 | 26°33 | 18°36 | F 13 | | | | | | | |
| S 14 | 17 32 50 | 24° 8'19 | 10♁14 | 0♁10 | 24°49 | 22° 2 | 15° 3 | 17°33 | 29°13 | 7°33 | 3°51 | 23°D50 | 23°54 | 26°40 | 18°32 | S 14 | | | | | | | |
| S 15 | 17 36 47 | 25° 5'48 | 22° 1 | 1°10 | 26° 1 | 22°41 | 14°55 | 17°40 | 29°13 | 7°34 | 3°52 | 23°R50 | 23°51 | 26°47 | 18°27 | S 15 | | | | | | | |
| M16 | 17 40 44 | 26° 3'17 | 3♁48 | 2°14 | 27°13 | 23°19 | 14°48 | 17°46 | 29°12 | 7°35 | 3°53 | 23°50 | 23°48 | 26°53 | 18°23 | M16 | | | | | | | |
| T 17 | 17 44 40 | 27° 0'44 | 15°37 | 3°22 | 28°25 | 23°57 | 14°41 | 17°53 | 29°12 | 7°36 | 3°54 | 23°50 | 23°44 | 27° 0 | 18°19 | T 17 | | | | | | | |
| W18 | 17 48 37 | 27°58'10 | 27°29 | 4°32 | 29°37 | 24°35 | 14°33 | 17°59 | 29°11 | 7°37 | 3°55 | 23°49 | 23°41 | 27° 7 | 18°15 | W18 | | | | | | | |
| T 19 | 17 52 33 | 28°55'36 | 9♁27 | 5°46 | 0♁49 | 25°13 | 14°26 | 18° 6 | 29°10 | 7°38 | 3°56 | 23°49 | 23°38 | 27°13 | 18°11 | T 19 | | | | | | | |
| F 20 | 17 56 30 | 29°53'00 | 21°34 | 7° 2 | 2° 1 | 25°51 | 14°19 | 18°12 | 29° 9 | 7°39 | 3°56 | 23°48 | 23°35 | 27°20 | 18° 6 | F 20 | | | | | | | |
| S 21 | 18 0 26 | 0♁50'24 | 3♁54 | 8°22 | 3°13 | 26°29 | 14°12 | 18°18 | 29° 8 | 7°40 | 3°57 | 23°47 | 23°32 | 27°27 | 18° 2 | S 21 | | | | | | | |
| S 22 | 18 4 23 | 1°47'46 | 16°30 | 9°45 | 4°26 | 27° 6 | 14° 5 | 18°24 | 29° 7 | 7°41 | 3°58 | 23°47 | 23°29 | 27°33 | 17°58 | S 22 | | | | | | | |
| M23 | 18 8 19 | 2°45'08 | 29°24 | 11°11 | 5°38 | 27°44 | 13°58 | 18°31 | 29° 6 | 7°43 | 3°59 | 23°D46 | 23°25 | 27°40 | 17°54 | M23 | | | | | | | |
| T 24 | 18 12 16 | 3°42'28 | 12♁41 | 12°40 | 6°50 | 28°21 | 13°51 | 18°37 | 29° 5 | 7°44 | 4° 0 | 23°46 | 23°22 | 27°47 | 17°50 | T 24 | | | | | | | |
| W25 | 18 16 13 | 4°39'48 | 26°21 | 14°12 | 8° 2 | 28°58 | 13°44 | 18°43 | 29° 4 | 7°45 | 4° 1 | 23°47 | 23°19 | 27°53 | 17°46 | W25 | | | | | | | |
| T 26 | 18 20 9 | 5°37'06 | 10♁27 | 15°47 | 9°14 | 29°35 | 13°38 | 18°49 | 29° 3 | 7°46 | 4° 1 | 23°48 | 23°16 | 28° 0 | 17°42 | T 26 | | | | | | | |
| F 27 | 18 24 6 | 6°34'24 | 24°57 | 17°25 | 10°27 | 0♁12 | 13°31 | 18°55 | 29° 2 | 7°47 | 4° 2 | 23°49 | 23°13 | 28° 7 | 17°38 | F 27 | | | | | | | |
| S 28 | 18 28 2 | 7°31'42 | 9♁48 | 19° 6 | 11°39 | 0°49 | 13°25 | 19° 1 | 29° 1 | 7°49 | 4° 3 | 23°49 | 23°10 | 28°13 | 17°34 | S 28 | | | | | | | |
| S 29 | 18 31 59 | 8°28'58 | 24°53 | 20°50 | 12°51 | 1°26 | 13°18 | 19° 7 | 29° 0 | 7°50 | 4° 4 | 23°R50 | 23° 6 | 28°20 | 17°30 | S 29 | | | | | | | |
| M30 | 18 35 55 | 9°26'14 | 10♁ 4 | 22♁36 | 14♁ 4 | 2♁ 2 | 13♁12 | 19♁13 | 28♁59 | 7♁51 | 4♁ 4 | 23♁49 | 23♁ 3 | 28♁26 | 17♁27 | M30 | | | | | | | |

Delta T = 19m27s

ASTRODIENST EPHEMERIS for the year 2588
geocentric

JULY 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|------------------------|--------------------|---------------------|---------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|---------------------|--------------------|------|
| T 1 | 18 39 52 | 10 ⁵² 23'30 | 25 ³ 12 | 24 ^{II} 26 | 15 ^{II} 16 | 2 ^V 38 | 13°R 6 | 19 ^B 18 | 28°R57 | 7 ^m 53 | 4 ^B 5 | 23°R48 | 23 [♂] 0 | 28 ^{II} 33 | 17°R23 | T 1 |
| W 2 | 18 43 48 | 11°20'45 | 10 [♁] 8 | 26°17 | 16°29 | 3°15 | 13 [♂] 0 | 19°24 | 28 [♁] 56 | 7°54 | 4° 6 | 23 [♂] 46 | 22°57 | 28°40 | 17 [♂] 19 | W 2 |
| T 3 | 18 47 45 | 12°18'00 | 24°44 | 28°12 | 17°41 | 3°51 | 12°54 | 19°30 | 28°55 | 7°55 | 4° 6 | 23°44 | 22°54 | 28°46 | 17°16 | T 3 |
| F 4 | 18 51 42 | 13°15'15 | 8 ^H 54 | 0 [♁] 9 | 18°53 | 4°26 | 12°48 | 19°35 | 28°53 | 7°57 | 4° 7 | 23°42 | 22°50 | 28°53 | 17°12 | F 4 |
| S 5 | 18 55 38 | 14°12'29 | 22°37 | 2° 9 | 20° 6 | 5° 2 | 12°43 | 19°41 | 28°52 | 7°58 | 4° 7 | 23°40 | 22°47 | 29° 0 | 17° 9 | S 5 |
| S 6 | 18 59 35 | 15° 9'44 | 5 ^V 53 | 4°10 | 21°19 | 5°37 | 12°37 | 19°46 | 28°50 | 8° 0 | 4° 8 | 23°39 | 22°44 | 29° 6 | 17° 5 | S 6 |
| M 7 | 19 3 31 | 16° 6'58 | 18°43 | 6°14 | 22°31 | 6°13 | 12°32 | 19°52 | 28°49 | 8° 1 | 4° 9 | 23°D38 | 22°41 | 29°13 | 17° 2 | M 7 |
| T 8 | 19 7 28 | 17° 4'13 | 1 ^B 13 | 8°19 | 23°44 | 6°48 | 12°27 | 19°57 | 28°47 | 8° 3 | 4° 9 | 23°39 | 22°38 | 29°20 | 16°58 | T 8 |
| W 9 | 19 11 24 | 18° 1'28 | 13°25 | 10°26 | 24°56 | 7°22 | 12°22 | 20° 2 | 28°46 | 8° 4 | 4°10 | 23°40 | 22°35 | 29°26 | 16°55 | W 9 |
| T 10 | 19 15 21 | 18°58'42 | 25°25 | 12°35 | 26° 9 | 7°57 | 12°17 | 20° 7 | 28°44 | 8° 6 | 4°10 | 23°42 | 22°31 | 29°33 | 16°52 | T 10 |
| F 11 | 19 19 17 | 19°55'57 | 7 ^{II} 16 | 14°44 | 27°22 | 8°31 | 12°12 | 20°12 | 28°42 | 8° 7 | 4°11 | 23°43 | 22°28 | 29°40 | 16°49 | F 11 |
| S 12 | 19 23 14 | 20°53'12 | 19° 3 | 16°54 | 28°34 | 9° 5 | 12° 7 | 20°17 | 28°41 | 8° 9 | 4°11 | 23°R44 | 22°25 | 29°46 | 16°46 | S 12 |
| S 13 | 19 27 11 | 21°50'28 | 0 [♁] 50 | 19° 4 | 29°47 | 9°39 | 12° 3 | 20°22 | 28°39 | 8°11 | 4°12 | 23°44 | 22°22 | 29°53 | 16°42 | S 13 |
| M14 | 19 31 7 | 22°47'43 | 12°39 | 21°15 | 1 [♁] 0 | 10°13 | 11°59 | 20°27 | 28°37 | 8°12 | 4°12 | 23°43 | 22°19 | 29°59 | 16°40 | M14 |
| T 15 | 19 35 4 | 23°44'58 | 24°32 | 23°25 | 2°13 | 10°46 | 11°54 | 20°32 | 28°35 | 8°14 | 4°12 | 23°40 | 22°16 | 0 [♁] 6 | 16°37 | T 15 |
| W16 | 19 39 0 | 24°42'13 | 6 [♁] 32 | 25°35 | 3°25 | 11°19 | 11°50 | 20°37 | 28°33 | 8°16 | 4°13 | 23°36 | 22°12 | 0°13 | 16°34 | W16 |
| T 17 | 19 42 57 | 25°39'28 | 18°41 | 27°44 | 4°38 | 11°52 | 11°47 | 20°41 | 28°32 | 8°17 | 4°13 | 23°30 | 22° 9 | 0°19 | 16°31 | T 17 |
| F 18 | 19 46 53 | 26°36'43 | 0 ^m 59 | 29°53 | 5°51 | 12°25 | 11°43 | 20°46 | 28°30 | 8°19 | 4°14 | 23°25 | 22° 6 | 0°26 | 16°28 | F 18 |
| S 19 | 19 50 50 | 27°33'58 | 13°30 | 2 [♁] 0 | 7° 4 | 12°57 | 11°40 | 20°50 | 28°28 | 8°21 | 4°14 | 23°19 | 22° 3 | 0°33 | 16°26 | S 19 |
| S 20 | 19 54 46 | 28°31'13 | 26°13 | 4° 6 | 8°17 | 13°29 | 11°36 | 20°55 | 28°26 | 8°23 | 4°14 | 23°15 | 22° 0 | 0°39 | 16°23 | S 20 |
| M21 | 19 58 43 | 29°28'28 | 9 [♁] 12 | 6°11 | 9°30 | 14° 1 | 11°33 | 20°59 | 28°24 | 8°25 | 4°14 | 23°12 | 21°56 | 0°46 | 16°21 | M21 |
| T 22 | 20 2 40 | 0 [♁] 25'42 | 22°28 | 8°14 | 10°43 | 14°33 | 11°30 | 21° 3 | 28°22 | 8°26 | 4°15 | 23°10 | 21°53 | 0°53 | 16°19 | T 22 |
| W23 | 20 6 36 | 1°22'57 | 6 [♁] 3 | 10°16 | 11°56 | 15° 4 | 11°27 | 21° 7 | 28°20 | 8°28 | 4°15 | 23°D10 | 21°50 | 0°59 | 16°16 | W23 |
| T 24 | 20 10 33 | 2°20'12 | 19°58 | 12°16 | 13° 9 | 15°35 | 11°25 | 21°12 | 28°18 | 8°30 | 4°15 | 23°11 | 21°47 | 1° 6 | 16°14 | T 24 |
| F 25 | 20 14 29 | 3°17'27 | 4 [♂] 13 | 14°15 | 14°22 | 16° 5 | 11°22 | 21°16 | 28°16 | 8°32 | 4°15 | 23°12 | 21°44 | 1°13 | 16°12 | F 25 |
| S 26 | 20 18 26 | 4°14'42 | 18°46 | 16°11 | 15°35 | 16°35 | 11°20 | 21°19 | 28°14 | 8°34 | 4°16 | 23°R13 | 21°41 | 1°19 | 16°10 | S 26 |
| S 27 | 20 22 22 | 5°11'57 | 3 [♁] 35 | 18° 6 | 16°48 | 17° 5 | 11°18 | 21°23 | 28°11 | 8°36 | 4°16 | 23°12 | 21°37 | 1°26 | 16° 8 | S 27 |
| M28 | 20 26 19 | 6° 9'12 | 18°33 | 19°59 | 18° 1 | 17°35 | 11°16 | 21°27 | 28° 9 | 8°38 | 4°16 | 23°10 | 21°34 | 1°33 | 16° 6 | M28 |
| T 29 | 20 30 15 | 7° 6'28 | 3 [♁] 33 | 21°51 | 19°14 | 18° 4 | 11°14 | 21°31 | 28° 7 | 8°40 | 4°16 | 23° 6 | 21°31 | 1°39 | 16° 5 | T 29 |
| W30 | 20 34 12 | 8° 3'44 | 18°25 | 23°40 | 20°27 | 18°33 | 11°13 | 21°34 | 28° 5 | 8°42 | 4°16 | 23° 1 | 21°28 | 1°46 | 16° 3 | W30 |
| T 31 | 20 38 9 | 9 [♁] 1'00 | 3 ^H 1 | 25 [♁] 28 | 21 [♁] 40 | 19 ^V 1 | 11 [♂] 11 | 21 ^B 38 | 28 [♁] 3 | 8 ^m 44 | 4 ^B 16 | 22 [♂] 54 | 21 [♂] 25 | 1 [♁] 53 | 16 [♂] 1 | T 31 |

Delta T = 19m28s

AUGUST 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|------|
| F 1 | 20 42 5 | 9 [♁] 58'17 | 17 ^H 16 | 27 [♁] 14 | 22 [♁] 54 | 19 ^V 30 | 11°R10 | 21 ^B 41 | 28°R 1 | 8 ^m 46 | 4 ^B 16 | 22°R47 | 21 [♂] 22 | 1 [♁] 59 | 16°R 0 | F 1 |
| S 2 | 20 46 2 | 10°55'35 | 1 ^V 4 | 28°58 | 24° 7 | 19°57 | 11 [♂] 9 | 21°44 | 27 [♁] 58 | 8°48 | 4°16 | 22 [♂] 40 | 21°18 | 2° 6 | 15 [♂] 58 | S 2 |
| S 3 | 20 49 58 | 11°52'54 | 14°24 | 0 ^m 40 | 25°20 | 20°25 | 11° 8 | 21°47 | 27°56 | 8°50 | 4°R16 | 22°35 | 21°15 | 2°12 | 15°57 | S 3 |
| M 4 | 20 53 55 | 12°50'13 | 27°18 | 2°21 | 26°34 | 20°52 | 11° 8 | 21°51 | 27°54 | 8°52 | 4°16 | 22°32 | 21°12 | 2°19 | 15°56 | M 4 |
| T 5 | 20 57 51 | 13°47'34 | 9 ^B 48 | 3°59 | 27°47 | 21°18 | 11° 7 | 21°54 | 27°51 | 8°54 | 4°16 | 22°D31 | 21° 9 | 2°26 | 15°55 | T 5 |
| W 6 | 21 1 48 | 14°44'55 | 22° 1 | 5°36 | 29° 0 | 21°44 | 11° 7 | 21°56 | 27°49 | 8°56 | 4°16 | 22°31 | 21° 6 | 2°32 | 15°54 | W 6 |
| T 7 | 21 5 44 | 15°42'17 | 3 ^{II} 59 | 7°12 | 0 [♁] 14 | 22°10 | 11°D 7 | 21°59 | 27°47 | 8°58 | 4°16 | 22°32 | 21° 2 | 2°39 | 15°53 | T 7 |
| F 8 | 21 9 41 | 16°39'41 | 15°49 | 8°45 | 1°27 | 22°35 | 11° 7 | 22° 2 | 27°45 | 9° 0 | 4°16 | 22°33 | 20°59 | 2°46 | 15°52 | F 8 |
| S 9 | 21 13 38 | 17°37'05 | 27°36 | 10°17 | 2°41 | 23° 0 | 11° 7 | 22° 5 | 27°42 | 9° 2 | 4°16 | 22°R33 | 20°56 | 2°52 | 15°51 | S 9 |
| S 10 | 21 17 34 | 18°34'31 | 9 [♁] 24 | 11°47 | 3°54 | 23°24 | 11° 8 | 22° 7 | 27°40 | 9° 4 | 4°16 | 22°31 | 20°53 | 2°59 | 15°51 | S 10 |
| M11 | 21 21 31 | 19°31'57 | 21°17 | 13°15 | 5° 8 | 23°48 | 11° 8 | 22°10 | 27°38 | 9° 6 | 4°15 | 22°27 | 20°50 | 3° 6 | 15°50 | M11 |
| T 12 | 21 25 27 | 20°29'24 | 3 [♁] 18 | 14°41 | 6°21 | 24°11 | 11° 9 | 22°12 | 27°35 | 9° 8 | 4°15 | 22°21 | 20°47 | 3°12 | 15°50 | T 12 |
| W13 | 21 29 24 | 21°26'53 | 15°29 | 16° 6 | 7°35 | 24°34 | 11°10 | 22°14 | 27°33 | 9°10 | 4°15 | 22°13 | 20°43 | 3°19 | 15°49 | W13 |
| T 14 | 21 33 20 | 22°24'22 | 27°52 | 17°28 | 8°48 | 24°56 | 11°12 | 22°16 | 27°30 | 9°12 | 4°15 | 22° 3 | 20°40 | 3°26 | 15°49 | T 14 |
| F 15 | 21 37 17 | 23°21'52 | 10 ^m 27 | 18°49 | 10° 2 | 25°18 | 11°13 | 22°18 | 27°28 | 9°15 | 4°15 | 21°52 | 20°37 | 3°32 | 15°49 | F 15 |
| S 16 | 21 41 13 | 24°19'23 | 23°14 | 20° 8 | 11°16 | 25°39 | 11°14 | 22°20 | 27°26 | 9°17 | 4°14 | 21°41 | 20°34 | 3°39 | 15°D49 | S 16 |
| S 17 | 21 45 10 | 25°16'55 | 6 [♁] 14 | 21°25 | 12°30 | 26° 0 | 11°16 | 22°22 | 27°23 | 9°19 | 4°14 | 21°32 | 20°31 | 3°46 | 15°49 | S 17 |
| M18 | 21 49 7 | 26°14'27 | 19°26 | 22°39 | 13°43 | 26°20 | 11°18 | 22°24 | 27°21 | 9°21 | 4°14 | 21°25 | 20°28 | 3°52 | 15°49 | M18 |
| T 19 | 21 53 3 | 27°12'01 | 2 ^m 51 | 23°52 | 14°57 | 26°39 | 11°20 | 22°25 | 27°18 | 9°23 | 4°13 | 21°20 | 20°24 | 3°59 | 15°49 | T 19 |
| W20 | 21 57 0 | 28° 9'35 | 16°28 | 25° 3 | 16°11 | 26°58 | 11°23 | 22°27 | 27°16 | 9°25 | 4°13 | 21°17 | 20°21 | 4° 5 | 15°49 | W20 |
| T 21 | 22 0 56 | 29° 7'10 | 0 [♂] 18 | 26°11 | 17°25 | 27°16 | 11°25 | 22°28 | 27°14 | 9°28 | 4°13 | 21°D17 | 20°18 | 4°12 | 15°50 | T 21 |
| F 22 | 22 4 53 | 0 ^m 4'47 | 14°22 | 27°17 | 18°38 | 27°34 | 11°28 | 22°30 | 27°11 | 9°30 | 4°12 | 21°R17 | 20°15 | 4°19 | 15°50 | F 22 |
| S 23 | 22 8 49 | 1° 2'24 | 28°39 | 28°20 | 19°52 | 27°51 | 11°30 | 22°31 | 27° 9 | 9°32 | 4°12 | 21°17 | 20°12 | 4°25 | 15°51 | S 23 |
| S 24 | 22 12 46 | 2° 0'01 | 13 [♁] 7 | 29°21 | 21° 6 | 28° 7 | 11°33 | 22°32 | 27° 6 | 9°34 | 4°11 | 21°16 | 20° 8 | 4°32 | 15°52 | S 24 |
| M25 | 22 16 42 | 2°57'40 | 27°43 | 0 [♁] 20 | 22°20 | 28°23 | 11°37 | 22°33 | 27° 4 | 9°36 | 4°11 | 21°12 | 20° 5 | 4°39 | 15°53 | M25 |
| T 26 | 22 20 39 | 3°55'20 | 12 [♁] 22 | 1°15 | 23°34 | 28°38 | 11°40 | 22°34 | 27° 2 | 9°39 | 4°11 | 21° 5 | 20° 2 | 4°45 | 15°53 | T 26 |
| W27 | 22 24 36 | 4°53'01 | 26°57 | 2° 8 | 24°48 | 28°52 | 11°43 | 22°35 | 26°59 | 9°41 | 4°10 | 20°56 | 19°59 | 4°52 | 15°55 | W27 |
| T 28 | 22 28 32 | 5°50'43 | 11 ^H 20 | 2°57 | 26° 2 | 29° 6 | 11°47 | 22°35 | 26°57 | 9°43 | 4°10 | 20°45 | 19°56 | 4°59 | 15°56 | T 28 |
| F 29 | 22 32 29 | 6°48'26 | 25°26 | 3°43 | 27°16 | 29°19 | 11°51 | 22°36 | 26°55 | 9°45 | 4° 9 | 20°34 | 19°53 | 5° 5 | 15°57 | F 29 |
| S 30 | 22 36 25 | 7°46'11 | 9 ^V 10 | 4°26 | 28°30 | 29°31 | 11°55 | 22°36 | 26°52 | 9°48 | 4° 8 | 20°23 | 19°49 | 5°12 | 15°58 | S 30 |
| S 31 | 22 40 22 | 8 ^m 43'58 | 22 ^V 29 | 5 [♁] 5 | 29 [♁] 44 | 29 ^V 42 | 11 [♂] 59 | 22 ^B 37 | 26 [♁] 50 | 9 ^m 50 | 4 ^B 8 | 20 [♂] 15 | 19 [♂] 46 | 5 [♁] 19 | 15 [♂] 59 | S 31 |

Delta T = 19m28s

ASTRODIENST EPHEMERIS for the year 2588
geocentric

SEPTEMBER 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|--------|--------|-------|-------|--------|-------|------|-------|------|-----|
| M 1 | 22 44 18 | 9♎41'46 | 5♄23 | 5♄40 | 0♎58 | 29♏53 | 12♊ 3 | 22♄37 | 26°R48 | 9♎52 | 4°R 7 | 20°R 8 | 19♊43 | 5♄25 | 16♊ 1 | M 1 | |
| T 2 | 22 48 15 | 10°39'35 | 17°55 | 6°11 | 2°12 | 0♄ 3 | 12° 8 | 22°37 | 26♁45 | 9°54 | 4♄ 7 | 20♊ 4 | 19°40 | 5°32 | 16° 3 | T 2 | |
| W 3 | 22 52 11 | 11°37'27 | 0♄ 8 | 6°37 | 3°26 | 0°12 | 12°13 | 22°R37 | 26°43 | 9°56 | 4° 6 | 20° 2 | 19°37 | 5°39 | 16° 4 | W 3 | |
| T 4 | 22 56 8 | 12°35'20 | 12° 7 | 6°59 | 4°41 | 0°21 | 12°17 | 22°37 | 26°41 | 9°59 | 4° 5 | 20° 2 | 19°33 | 5°45 | 16° 6 | T 4 | |
| F 5 | 23 0 5 | 13°33'15 | 23°58 | 7°16 | 5°55 | 0°28 | 12°22 | 22°37 | 26°39 | 10° 1 | 4° 5 | 20° 2 | 19°30 | 5°52 | 16° 8 | F 5 | |
| S 6 | 23 4 1 | 14°31'11 | 5♄46 | 7°28 | 7° 9 | 0°35 | 12°28 | 22°37 | 26°36 | 10° 3 | 4° 4 | 20° 1 | 19°27 | 5°58 | 16°10 | S 6 | |
| S 7 | 23 7 58 | 15°29'10 | 17°36 | 7°34 | 8°23 | 0°41 | 12°33 | 22°36 | 26°34 | 10° 5 | 4° 4 | 19°59 | 19°24 | 6° 5 | 16°12 | S 7 | |
| M 8 | 23 11 54 | 16°27'10 | 29°33 | 7°R35 | 9°38 | 0°46 | 12°38 | 22°36 | 26°32 | 10° 8 | 4° 3 | 19°54 | 19°21 | 6°12 | 16°14 | M 8 | |
| T 9 | 23 15 51 | 17°25'12 | 11♎41 | 7°30 | 10°52 | 0°50 | 12°44 | 22°35 | 26°30 | 10°10 | 4° 2 | 19°47 | 19°18 | 6°18 | 16°16 | T 9 | |
| W10 | 23 19 47 | 18°23'15 | 24° 3 | 7°19 | 12° 6 | 0°53 | 12°50 | 22°35 | 26°27 | 10°12 | 4° 1 | 19°36 | 19°14 | 6°25 | 16°19 | W10 | |
| T 11 | 23 23 44 | 19°21'21 | 6♎41 | 7° 1 | 13°21 | 0°56 | 12°56 | 22°34 | 26°25 | 10°14 | 4° 1 | 19°24 | 19°11 | 6°32 | 16°21 | T 11 | |
| F 12 | 23 27 40 | 20°19'28 | 19°35 | 6°38 | 14°35 | 0°58 | 13° 2 | 22°33 | 26°23 | 10°16 | 4° 0 | 19°11 | 19° 8 | 6°38 | 16°24 | F 12 | |
| S 13 | 23 31 37 | 21°17'36 | 2♄43 | 6° 8 | 15°49 | 0°R58 | 13° 8 | 22°32 | 26°21 | 10°19 | 3°59 | 18°59 | 19° 5 | 6°45 | 16°26 | S 13 | |
| S 14 | 23 35 33 | 22°15'47 | 16° 5 | 5°32 | 17° 4 | 0°58 | 13°14 | 22°31 | 26°19 | 10°21 | 3°58 | 18°47 | 19° 2 | 6°52 | 16°29 | S 14 | |
| M15 | 23 39 30 | 23°13'58 | 29°39 | 4°50 | 18°18 | 0°57 | 13°21 | 22°30 | 26°17 | 10°23 | 3°57 | 18°38 | 18°59 | 6°58 | 16°32 | M15 | |
| T 16 | 23 43 27 | 24°12'12 | 13♎22 | 4° 3 | 19°33 | 0°56 | 13°28 | 22°28 | 26°15 | 10°25 | 3°57 | 18°32 | 18°55 | 7° 5 | 16°34 | T 16 | |
| W17 | 23 47 23 | 25°10'27 | 27°12 | 3°11 | 20°47 | 0°53 | 13°34 | 22°27 | 26°13 | 10°27 | 3°56 | 18°29 | 18°52 | 7°12 | 16°37 | W17 | |
| T 18 | 23 51 20 | 26° 8'43 | 11♊ 9 | 2°15 | 22° 2 | 0°49 | 13°41 | 22°25 | 26°11 | 10°29 | 3°55 | 18°28 | 18°49 | 7°18 | 16°41 | T 18 | |
| F 19 | 23 55 16 | 27° 7'01 | 25°11 | 1°16 | 23°16 | 0°45 | 13°48 | 22°24 | 26° 9 | 10°32 | 3°54 | 18°28 | 18°46 | 7°25 | 16°44 | F 19 | |
| S 20 | 23 59 13 | 28° 5'21 | 9♄19 | 0°16 | 24°31 | 0°40 | 13°56 | 22°22 | 26° 7 | 10°34 | 3°53 | 18°27 | 18°43 | 7°32 | 16°47 | S 20 | |
| S 21 | 0 3 9 | 29° 3'41 | 23°31 | 29♎15 | 25°45 | 0°34 | 14° 3 | 22°20 | 26° 5 | 10°36 | 3°52 | 18°25 | 18°39 | 7°38 | 16°50 | S 21 | |
| M22 | 0 7 6 | 0♄ 2'04 | 7♁45 | 28°15 | 27° 0 | 0°27 | 14°10 | 22°18 | 26° 3 | 10°38 | 3°51 | 18°21 | 18°36 | 7°45 | 16°54 | M22 | |
| T 23 | 0 11 2 | 1° 0'27 | 21°58 | 27°17 | 28°14 | 0°19 | 14°18 | 22°16 | 26° 2 | 10°40 | 3°50 | 18°15 | 18°33 | 7°52 | 16°57 | T 23 | |
| W24 | 0 14 59 | 1°58'53 | 6♁ 7 | 26°22 | 29°29 | 0°10 | 14°26 | 22°14 | 26° 0 | 10°42 | 3°49 | 18° 5 | 18°30 | 7°58 | 17° 1 | W24 | |
| T 25 | 0 18 56 | 2°57'20 | 20° 7 | 25°33 | 0♄44 | 0° 1 | 14°34 | 22°12 | 25°58 | 10°44 | 3°49 | 17°54 | 18°27 | 8° 5 | 17° 4 | T 25 | |
| F 26 | 0 22 52 | 3°55'49 | 3♏54 | 24°51 | 1°58 | 29♏51 | 14°42 | 22°10 | 25°56 | 10°46 | 3°48 | 17°42 | 18°24 | 8°12 | 17° 8 | F 26 | |
| S 27 | 0 26 49 | 4°54'20 | 17°23 | 24°15 | 3°13 | 29°40 | 14°50 | 22° 7 | 25°55 | 10°48 | 3°47 | 17°31 | 18°20 | 8°18 | 17°12 | S 27 | |
| S 28 | 0 30 45 | 5°52'52 | 0♄31 | 23°49 | 4°27 | 29°29 | 14°58 | 22° 5 | 25°53 | 10°51 | 3°46 | 17°22 | 18°17 | 8°25 | 17°16 | S 28 | |
| M29 | 0 34 42 | 6°51'27 | 13°19 | 23°31 | 5°42 | 29°16 | 15° 7 | 22° 2 | 25°51 | 10°53 | 3°45 | 17°15 | 18°14 | 8°31 | 17°20 | M29 | |
| T 30 | 0 38 38 | 7♁50'04 | 25♄48 | 23°D23 | 6♄57 | 29♏ 3 | 15♊15 | 22♄ 0 | 25♁50 | 10♎55 | 3♄44 | 17♊10 | 18♊11 | 8♄38 | 17♊24 | T 30 | |

Delta T = 19m28s

OCTOBER 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|--------|--------|-------|-------|--------|-------|-------|-------|------|-----|
| W 1 | 0 42 35 | 8♄48'43 | 8♄ 0 | 23♎24 | 8♄11 | 28°R50 | 15♊24 | 21°R57 | 25°R48 | 10♎57 | 3°R43 | 17°R 8 | 18♊ 8 | 8♄45 | 17♊28 | W 1 | |
| T 2 | 0 46 31 | 9°47'24 | 19°59 | 23°36 | 9°26 | 28♏36 | 15°33 | 21♄54 | 25♁47 | 10°59 | 3♄42 | 17°D 8 | 18° 5 | 8°51 | 17°32 | T 2 | |
| F 3 | 0 50 28 | 10°46'08 | 1♄50 | 23°57 | 10°41 | 28°21 | 15°41 | 21°51 | 25°45 | 11° 1 | 3°41 | 17♊ 8 | 18° 1 | 8°58 | 17°36 | F 3 | |
| S 4 | 0 54 25 | 11°44'53 | 13°39 | 24°27 | 11°56 | 28° 5 | 15°50 | 21°48 | 25°44 | 11° 3 | 3°40 | 17°R 9 | 17°58 | 9° 5 | 17°41 | S 4 | |
| S 5 | 0 58 21 | 12°43'41 | 25°30 | 25° 7 | 13°10 | 27°50 | 16° 0 | 21°45 | 25°42 | 11° 5 | 3°38 | 17° 8 | 17°55 | 9°11 | 17°45 | S 5 | |
| M 6 | 1 2 18 | 13°42'31 | 7♄20 | 25°56 | 14°25 | 27°33 | 16° 9 | 21°42 | 25°41 | 11° 7 | 3°37 | 17° 5 | 17°52 | 9°18 | 17°50 | M 6 | |
| T 7 | 1 6 14 | 14°41'23 | 19°42 | 26°52 | 15°40 | 27°16 | 16°18 | 21°38 | 25°40 | 11° 8 | 3°36 | 17° 0 | 17°49 | 9°25 | 17°54 | T 7 | |
| W 8 | 1 10 11 | 15°40'18 | 2♎10 | 27°56 | 16°55 | 26°59 | 16°28 | 21°35 | 25°38 | 11°10 | 3°35 | 16°52 | 17°45 | 9°31 | 17°59 | W 8 | |
| T 9 | 1 14 7 | 16°39'14 | 14°58 | 29° 6 | 18°10 | 26°42 | 16°37 | 21°32 | 25°37 | 11°12 | 3°34 | 16°43 | 17°42 | 9°38 | 18° 4 | T 9 | |
| F 10 | 1 18 4 | 17°38'13 | 28° 6 | 0♄22 | 19°24 | 26°24 | 16°47 | 21°28 | 25°36 | 11°14 | 3°33 | 16°33 | 17°39 | 9°45 | 18° 8 | F 10 | |
| S 11 | 1 22 0 | 18°37'13 | 11♄34 | 1°44 | 20°39 | 26° 6 | 16°57 | 21°24 | 25°35 | 11°16 | 3°32 | 16°23 | 17°36 | 9°51 | 18°13 | S 11 | |
| S 12 | 1 25 57 | 19°36'16 | 25°19 | 3°10 | 21°54 | 25°47 | 17° 6 | 21°21 | 25°34 | 11°18 | 3°31 | 16°14 | 17°33 | 9°58 | 18°18 | S 12 | |
| M13 | 1 29 54 | 20°35'21 | 9♎18 | 4°40 | 23° 9 | 25°29 | 17°16 | 21°17 | 25°33 | 11°20 | 3°30 | 16° 6 | 17°30 | 10° 5 | 18°23 | M13 | |
| T 14 | 1 33 50 | 21°34'28 | 23°26 | 6°13 | 24°24 | 25°10 | 17°27 | 21°13 | 25°32 | 11°21 | 3°29 | 16° 2 | 17°26 | 10°11 | 18°28 | T 14 | |
| W15 | 1 37 47 | 22°33'37 | 7♁40 | 7°49 | 25°39 | 24°52 | 17°37 | 21° 9 | 25°31 | 11°23 | 3°28 | 16° 0 | 17°23 | 10°18 | 18°33 | W15 | |
| T 16 | 1 41 43 | 23°32'47 | 21°55 | 9°27 | 26°54 | 24°33 | 17°47 | 21° 5 | 25°30 | 11°25 | 3°26 | 16°D 0 | 17°20 | 10°25 | 18°39 | T 16 | |
| F 17 | 1 45 40 | 24°31'59 | 6♄ 9 | 11° 7 | 28° 9 | 24°15 | 17°57 | 21° 1 | 25°29 | 11°27 | 3°25 | 16° 1 | 17°17 | 10°31 | 18°44 | F 17 | |
| S 18 | 1 49 36 | 25°31'13 | 20°19 | 12°49 | 29°23 | 23°57 | 18° 8 | 20°57 | 25°28 | 11°28 | 3°24 | 16°R 1 | 17°14 | 10°38 | 18°49 | S 18 | |
| S 19 | 1 53 33 | 26°30'29 | 4♁25 | 14°31 | 0♎38 | 23°38 | 18°19 | 20°53 | 25°27 | 11°30 | 3°23 | 16° 1 | 17°10 | 10°45 | 18°55 | S 19 | |
| M20 | 1 57 29 | 27°29'46 | 18°25 | 16°15 | 1°53 | 23°20 | 18°29 | 20°49 | 25°26 | 11°32 | 3°22 | 15°59 | 17° 7 | 10°51 | 19° 0 | M20 | |
| T 21 | 2 1 26 | 28°29'05 | 2♁17 | 17°59 | 3° 8 | 23° 3 | 18°40 | 20°45 | 25°26 | 11°33 | 3°21 | 15°55 | 17° 4 | 10°58 | 19° 6 | T 21 | |
| W22 | 2 5 23 | 29°28'26 | 16° 1 | 19°43 | 4°23 | 22°45 | 18°51 | 20°40 | 25°25 | 11°35 | 3°20 | 15°49 | 17° 1 | 11° 5 | 19°11 | W22 | |
| T 23 | 2 9 19 | 0♎27'48 | 29°34 | 21°27 | 5°38 | 22°28 | 19° 2 | 20°36 | 25°24 | 11°37 | 3°19 | 15°42 | 16°58 | 11°11 | 19°17 | T 23 | |
| F 24 | 2 13 16 | 1°27'13 | 12♏55 | 23°11 | 6°53 | 22°12 | 19°13 | 20°32 | 25°24 | 11°38 | 3°17 | 15°34 | 16°55 | 11°18 | 19°23 | F 24 | |
| S 25 | 2 17 12 | 2°26'39 | 26° 2 | 24°56 | 8° 8 | 21°56 | 19°24 | 20°27 | 25°23 | 11°40 | 3°16 | 15°27 | 16°51 | 11°25 | 19°28 | S 25 | |
| S 26 | 2 21 9 | 3°26'07 | 8♄53 | 26°39 | 9°23 | 21°40 | 19°35 | 20°23 | 25°23 | 11°41 | 3°15 | 15°20 | 16°48 | 11°31 | 19°34 | S 26 | |
| M27 | 2 25 5 | 4°25'38 | 21°28 | 28°23 | 10°38 | 21°25 | 19°46 | 20°18 | 25°23 | 11°43 | 3°14 | 15°16 | 16°45 | 11°38 | 19°40 | M27 | |
| T 28 | 2 29 2 | 5°25'10 | 3♄49 | 0♎ 6 | 11°53 | 21°10 | 19°58 | 20°14 | 25°22 | 11°44 | 3°13 | 15°13 | 16°42 | 11°44 | 19°46 | T 28 | |
| W29 | 2 32 58 | 6°24'45 | 15°56 | 1°49 | 13° 8 | 20°56 | 20° 9 | 20° 9 | 25°22 | 11°46 | 3°12 | 15°D13 | 16°39 | 11°51 | 19°52 | W29 | |
| T 30 | 2 36 55 | 7°24'21 | 27°53 | 3°31 | 14°23 | 20°42 | 20°21 | 20° 5 | 25°22 | 11°47 | 3°11 | 15°13 | 16°36 | 11°58 | 19°58 | T 30 | |
| F 31 | 2 40 52 | 8♎24'00 | 9♄44 | 5♎13 | 15♎38 | 20♏29 | 20♊32 | 20♄ 0 | 25♁21 | 11♎49 | 3♄ 9 | 15♊15 | 16♊32 | 12♄ 4 | 20♊ 4 | F 31 | |

Delta T = 19m28s

ASTRODIENST EPHEMERIS for the year 2588
geocentric

NOVEMBER 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|--------|--------|-------|-------|--------|-------|-------|-------|------|---|-----|
| S 1 | 2 44 48 | 9♈23'42 | 21♌32 | 6♋54 | 16♈53 | 20°R17 | 20♌44 | 19°R55 | 25°R21 | 11♎50 | 3°R 8 | 15♌17 | 16♌29 | 12♌11 | 20♌10 | S 1 | | |
| S 2 | 2 48 45 | 10°23'25 | 3♈23 | 8°35 | 18° 8 | 20°V 6 | 20°56 | 19♌50 | 25♌21 | 11°51 | 3♌ 7 | 15°18 | 16°26 | 12°18 | 20°16 | S 2 | | |
| M 3 | 2 52 41 | 11°23'10 | 15°22 | 10°15 | 19°23 | 19°55 | 21° 7 | 19°46 | 25°21 | 11°53 | 3° 6 | 15°R18 | 16°23 | 12°24 | 20°22 | M 3 | | |
| T 4 | 2 56 38 | 12°22'58 | 27°33 | 11°55 | 20°38 | 19°45 | 21°19 | 19°41 | 25°D21 | 11°54 | 3° 5 | 15°17 | 16°20 | 12°31 | 20°29 | T 4 | | |
| W 5 | 3 0 34 | 13°22'48 | 10♎ 2 | 13°34 | 21°53 | 19°35 | 21°31 | 19°36 | 25°21 | 11°55 | 3° 4 | 15°14 | 16°16 | 12°38 | 20°35 | W 5 | | |
| T 6 | 3 4 31 | 14°22'40 | 22°52 | 15°13 | 23° 8 | 19°26 | 21°43 | 19°31 | 25°21 | 11°57 | 3° 3 | 15°10 | 16°13 | 12°44 | 20°41 | T 6 | | |
| F 7 | 3 8 27 | 15°22'34 | 6♌ 5 | 16°51 | 24°23 | 19°19 | 21°55 | 19°27 | 25°21 | 11°58 | 3° 2 | 15° 6 | 16°10 | 12°51 | 20°48 | F 7 | | |
| S 8 | 3 12 24 | 16°22'30 | 19°43 | 18°28 | 25°38 | 19°11 | 22° 7 | 19°22 | 25°22 | 11°59 | 3° 0 | 15° 1 | 16° 7 | 12°58 | 20°54 | S 8 | | |
| S 9 | 3 16 20 | 17°22'29 | 3♈43 | 20° 5 | 26°53 | 19° 5 | 22°20 | 19°17 | 25°22 | 12° 0 | 2°59 | 14°57 | 16° 4 | 13° 4 | 21° 1 | S 9 | | |
| M10 | 3 20 17 | 18°22'29 | 18° 3 | 21°42 | 28° 8 | 19° 0 | 22°32 | 19°12 | 25°22 | 12° 1 | 2°58 | 14°54 | 16° 1 | 13°11 | 21° 7 | M10 | | |
| T 11 | 3 24 14 | 19°22'31 | 2♌37 | 23°18 | 29°23 | 18°55 | 22°44 | 19° 7 | 25°23 | 12° 2 | 2°57 | 14°52 | 15°57 | 13°18 | 21°14 | T 11 | | |
| W12 | 3 28 10 | 20°22'35 | 17°17 | 24°54 | 0♌38 | 18°51 | 22°57 | 19° 2 | 25°23 | 12° 3 | 2°56 | 14°D52 | 15°54 | 13°24 | 21°20 | W12 | | |
| T 13 | 3 32 7 | 21°22'41 | 1♌59 | 26°29 | 1°53 | 18°48 | 23° 9 | 18°58 | 25°23 | 12° 5 | 2°55 | 14°52 | 15°51 | 13°31 | 21°27 | T 13 | | |
| F 14 | 3 36 3 | 22°22'49 | 16°35 | 28° 4 | 3° 8 | 18°46 | 23°22 | 18°53 | 25°24 | 12° 6 | 2°54 | 14°54 | 15°48 | 13°38 | 21°33 | F 14 | | |
| S 15 | 3 40 0 | 23°22'58 | 1♌ 1 | 29°39 | 4°23 | 18°44 | 23°34 | 18°48 | 25°24 | 12° 7 | 2°53 | 14°55 | 15°45 | 13°44 | 21°40 | S 15 | | |
| S 16 | 3 43 56 | 24°23'08 | 15°13 | 1♌13 | 5°38 | 18°D44 | 23°47 | 18°43 | 25°25 | 12° 7 | 2°52 | 14°56 | 15°42 | 13°51 | 21°47 | S 16 | | |
| M17 | 3 47 53 | 25°23'20 | 29°11 | 2°47 | 6°53 | 18°44 | 24° 0 | 18°38 | 25°26 | 12° 8 | 2°51 | 14°R56 | 15°38 | 13°58 | 21°54 | M17 | | |
| T 18 | 3 51 50 | 26°23'33 | 12♌53 | 4°20 | 8° 8 | 18°45 | 24°12 | 18°34 | 25°26 | 12° 9 | 2°50 | 14°55 | 15°35 | 14° 4 | 22° 0 | T 18 | | |
| W19 | 3 55 46 | 27°23'47 | 26°20 | 5°53 | 9°23 | 18°47 | 24°25 | 18°29 | 25°27 | 12°10 | 2°49 | 14°54 | 15°32 | 14°11 | 22° 7 | W19 | | |
| T 20 | 3 59 43 | 28°24'03 | 9♌31 | 7°26 | 10°38 | 18°49 | 24°38 | 18°24 | 25°28 | 12°11 | 2°48 | 14°52 | 15°29 | 14°18 | 22°14 | T 20 | | |
| F 21 | 4 3 39 | 29°24'21 | 22°28 | 8°58 | 11°53 | 18°53 | 24°51 | 18°19 | 25°29 | 12°12 | 2°47 | 14°49 | 15°26 | 14°24 | 22°21 | F 21 | | |
| S 22 | 4 7 36 | 0♌24'40 | 5♌12 | 10°30 | 13° 8 | 18°57 | 25° 4 | 18°15 | 25°30 | 12°12 | 2°46 | 14°47 | 15°22 | 14°31 | 22°28 | S 22 | | |
| S 23 | 4 11 32 | 1°25'00 | 17°43 | 12° 2 | 14°23 | 19° 2 | 25°17 | 18°10 | 25°31 | 12°13 | 2°45 | 14°45 | 15°19 | 14°38 | 22°35 | S 23 | | |
| M24 | 4 15 29 | 2°25'23 | 0♈ 3 | 13°34 | 15°38 | 19° 7 | 25°30 | 18° 5 | 25°32 | 12°14 | 2°44 | 14°44 | 15°16 | 14°44 | 22°42 | M24 | | |
| T 25 | 4 19 25 | 3°25'46 | 12°12 | 15° 5 | 16°53 | 19°14 | 25°43 | 18° 1 | 25°33 | 12°15 | 2°43 | 14°D44 | 15°13 | 14°51 | 22°49 | T 25 | | |
| W26 | 4 23 22 | 4°26'12 | 2°12 | 16°36 | 18° 9 | 19°21 | 25°56 | 17°56 | 25°34 | 12°15 | 2°42 | 14°44 | 15°10 | 14°58 | 22°56 | W26 | | |
| T 27 | 4 27 19 | 5°26'39 | 6♌ 5 | 18° 6 | 19°24 | 19°28 | 26° 9 | 17°52 | 25°35 | 12°16 | 2°41 | 14°44 | 15° 7 | 15° 4 | 23° 3 | T 27 | | |
| F 28 | 4 31 15 | 6°27'08 | 17°54 | 19°37 | 20°39 | 19°37 | 26°22 | 17°47 | 25°36 | 12°16 | 2°40 | 14°45 | 15° 3 | 15°11 | 23°10 | F 28 | | |
| S 29 | 4 35 12 | 7°27'38 | 29°43 | 21° 7 | 21°54 | 19°46 | 26°35 | 17°43 | 25°38 | 12°17 | 2°39 | 14°46 | 15° 0 | 15°18 | 23°17 | S 29 | | |
| S 30 | 4 39 8 | 8♌28'10 | 11♈33 | 22♌37 | 23♌ 9 | 19°V56 | 26♌48 | 17♌39 | 25♌39 | 12♎17 | 2♌38 | 14♌47 | 14♌57 | 15♌24 | 23♌24 | S 30 | | |

Delta T = 19m29s

DECEMBER 2588

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|---------|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|------|---|-----|
| M 1 | 4 43 5 | 9♌28'44 | 23♈31 | 24♌ 6 | 24♌24 | 20°V 6 | 27♌ 2 | 17°R34 | 25♌40 | 12♎18 | 2°R37 | 14♌47 | 14♌54 | 15♌31 | 23♌31 | M 1 | | |
| T 2 | 4 47 1 | 10°29'20 | 5♎40 | 25°35 | 25°39 | 20°18 | 27°15 | 17♌30 | 25°42 | 12°18 | 2♌36 | 14°R48 | 14°51 | 15°38 | 23°38 | T 2 | | |
| W 3 | 4 50 58 | 11°29'57 | 18° 5 | 27° 4 | 26°54 | 20°29 | 27°28 | 17°26 | 25°43 | 12°19 | 2°35 | 14°48 | 14°48 | 15°44 | 23°45 | W 3 | | |
| T 4 | 4 54 54 | 12°30'36 | 0♌49 | 28°32 | 28° 9 | 20°42 | 27°41 | 17°22 | 25°45 | 12°19 | 2°35 | 14°48 | 14°44 | 15°51 | 23°52 | T 4 | | |
| F 5 | 4 58 51 | 13°31'16 | 13°58 | 29°59 | 29°24 | 20°55 | 27°55 | 17°18 | 25°46 | 12°19 | 2°34 | 14°47 | 14°41 | 15°58 | 24° 0 | F 5 | | |
| S 6 | 5 2 48 | 14°31'58 | 27°33 | 1♌27 | 0♌39 | 21° 8 | 28° 8 | 17°14 | 25°48 | 12°20 | 2°33 | 14°D47 | 14°38 | 16° 4 | 24° 7 | S 6 | | |
| S 7 | 5 6 44 | 15°32'42 | 11♈35 | 2°53 | 1°54 | 21°23 | 28°22 | 17°10 | 25°49 | 12°20 | 2°32 | 14°47 | 14°35 | 16°11 | 24°14 | S 7 | | |
| M 8 | 5 10 41 | 16°33'27 | 26° 2 | 4°19 | 3° 9 | 21°38 | 28°35 | 17° 6 | 25°51 | 12°20 | 2°31 | 14°47 | 14°32 | 16°18 | 24°21 | M 8 | | |
| T 9 | 5 14 37 | 17°34'13 | 10♌49 | 5°44 | 4°24 | 21°53 | 28°49 | 17° 2 | 25°53 | 12°20 | 2°31 | 14°R48 | 14°28 | 16°24 | 24°28 | T 9 | | |
| W10 | 5 18 34 | 18°35'01 | 25°50 | 7° 8 | 5°39 | 22° 9 | 29° 2 | 16°58 | 25°55 | 12°20 | 2°30 | 14°48 | 14°25 | 16°31 | 24°36 | W10 | | |
| T 11 | 5 22 30 | 19°35'50 | 10♌55 | 8°30 | 6°54 | 22°25 | 29°16 | 16°54 | 25°56 | 12°20 | 2°29 | 14°47 | 14°22 | 16°38 | 24°43 | T 11 | | |
| F 12 | 5 26 27 | 20°36'40 | 25°57 | 9°52 | 8° 9 | 22°42 | 29°29 | 16°51 | 25°58 | 12°21 | 2°28 | 14°47 | 14°19 | 16°44 | 24°50 | F 12 | | |
| S 13 | 5 30 23 | 21°37'31 | 10♌46 | 11°12 | 9°24 | 23° 0 | 29°43 | 16°47 | 26° 0 | 12°21 | 2°28 | 14°46 | 14°16 | 16°51 | 24°57 | S 13 | | |
| S 14 | 5 34 20 | 22°38'23 | 25°16 | 12°30 | 10°39 | 23°18 | 29°56 | 16°44 | 26° 2 | 12°R21 | 2°27 | 14°45 | 14°13 | 16°58 | 25° 4 | S 14 | | |
| M15 | 5 38 17 | 23°39'16 | 9♌24 | 13°47 | 11°54 | 23°37 | 0♌10 | 16°40 | 26° 4 | 12°21 | 2°26 | 14°45 | 14° 9 | 17° 4 | 25°12 | M15 | | |
| T 16 | 5 42 13 | 24°40'09 | 23° 9 | 15° 1 | 13°10 | 23°56 | 0°23 | 16°37 | 26° 6 | 12°21 | 2°26 | 14°D44 | 14° 6 | 17°11 | 25°19 | T 16 | | |
| W17 | 5 46 10 | 25°41'03 | 6♌30 | 16°12 | 14°25 | 24°15 | 0°37 | 16°34 | 26° 8 | 12°20 | 2°25 | 14°44 | 14° 3 | 17°18 | 25°26 | W17 | | |
| T 18 | 5 50 6 | 26°41'57 | 19°30 | 17°20 | 15°40 | 24°35 | 0°51 | 16°31 | 26°10 | 12°20 | 2°24 | 14°45 | 14° 0 | 17°24 | 25°33 | T 18 | | |
| F 19 | 5 54 3 | 27°42'52 | 2♌12 | 18°25 | 16°55 | 24°56 | 1° 4 | 16°28 | 26°13 | 12°20 | 2°24 | 14°46 | 13°57 | 17°31 | 25°40 | F 19 | | |
| S 20 | 5 57 59 | 28°43'48 | 14°39 | 19°25 | 18°10 | 25°17 | 1°18 | 16°25 | 26°15 | 12°20 | 2°23 | 14°48 | 13°54 | 17°38 | 25°48 | S 20 | | |
| S 21 | 6 1 56 | 29°44'45 | 26°53 | 20°21 | 19°25 | 25°38 | 1°32 | 16°22 | 26°17 | 12°20 | 2°23 | 14°49 | 13°50 | 17°44 | 25°55 | S 21 | | |
| M22 | 6 5 52 | 0♌45'42 | 8♈58 | 21°12 | 20°40 | 26° 0 | 1°45 | 16°19 | 26°19 | 12°19 | 2°22 | 14°R49 | 13°47 | 17°51 | 26° 2 | M22 | | |
| T 23 | 6 9 49 | 1°46'40 | 20°56 | 21°56 | 21°54 | 26°22 | 1°59 | 16°17 | 26°22 | 12°19 | 2°22 | 14°49 | 13°44 | 17°58 | 26° 9 | T 23 | | |
| W24 | 6 13 46 | 2°47'39 | 2♌49 | 22°33 | 23° 9 | 26°44 | 2°13 | 16°14 | 26°24 | 12°19 | 2°21 | 14°48 | 13°41 | 18° 4 | 26°16 | W24 | | |
| T 25 | 6 17 42 | 3°48'39 | 14°40 | 23° 2 | 24°24 | 27° 7 | 2°26 | 16°12 | 26°26 | 12°18 | 2°21 | 14°47 | 13°38 | 18°11 | 26°24 | T 25 | | |
| F 26 | 6 21 39 | 4°49'39 | 26°29 | 23°23 | 25°39 | 27°30 | 2°40 | 16° 9 | 26°29 | 12°18 | 2°20 | 14°44 | 13°34 | 18°18 | 26°31 | F 26 | | |
| S 27 | 6 25 35 | 5°50'40 | 8♈19 | 23°34 | 26°54 | 27°54 | 2°53 | 16° 7 | 26°31 | 12°18 | 2°20 | 14°40 | 13°31 | 18°24 | 26°38 | S 27 | | |
| S 28 | 6 29 32 | 6°51'42 | 20°13 | 23°R35 | 28° 9 | 28°18 | 3° 7 | 16° 5 | 26°34 | 12°17 | 2°20 | 14°36 | 13°28 | 18°31 | 26°45 | S 28 | | |
| M29 | 6 33 28 | 7°52'44 | 2♎13 | 23°24 | 29°24 | 28°42 | 3°21 | 16° 3 | 26°36 | 12°17 | 2°19 | 14°33 | 13°25 | 18°38 | 26°52 | M29 | | |
| T 30 | 6 37 25 | 8°53'47 | 14°22 | 23° 2 | 0♌39 | 29° 7 | 3°34 | 16° 1 | 26°39 | 12°16 | 2°19 | 14°30 | 13°22 | 18°44 | 26°59 | T 30 | | |
| W31 | 6 41 21 | 9♌54'51 | 26♎44 | 22♌28 | 1♌54 | 29°V32 | 3♌48 | 15♌59 | 26♌42 | 12♎16 | 2♌18 | 14♌28 | 13♌19 | 18♌51 | 27♌ 6 | W31 | | |

Delta T = 19m29s

ASTRODIENST EPHEMERIS for the year 2589
geocentric

JANUARY 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|------|-----|
| T 1 | 6 45 18 | 10♌55'56 | 9♉24 | 21°R43 | 3♋9 | 29♍57 | 4♃2 | 15°R57 | 26♋44 | 12°R15 | 2°R18 | 14°D27 | 13♌15 | 18♌58 | 27♌13 | T 1 | |
| F 2 | 6 49 15 | 11°57'02 | 22°24 | 20♌47 | 4°24 | 0♃23 | 4°15 | 15♌56 | 26°47 | 12♍14 | 2♃18 | 14♌27 | 13°12 | 19° 4 | 27°20 | F 2 | |
| S 3 | 6 53 11 | 12°58'08 | 5♍48 | 19°41 | 5°39 | 0°49 | 4°29 | 15°54 | 26°50 | 12°14 | 2°17 | 14°28 | 13° 9 | 19°11 | 27°27 | S 3 | |
| S 4 | 6 57 8 | 13°59'15 | 19°39 | 18°28 | 6°53 | 1°15 | 4°42 | 15°53 | 26°52 | 12°13 | 2°17 | 14°30 | 13° 6 | 19°18 | 27°34 | S 4 | |
| M 5 | 7 1 4 | 15° 0'22 | 3♌57 | 17° 9 | 8° 8 | 1°41 | 4°56 | 15°51 | 26°55 | 12°12 | 2°17 | 14°31 | 13° 3 | 19°24 | 27°41 | M 5 | |
| T 6 | 7 5 1 | 16° 1'30 | 18°40 | 15°47 | 9°23 | 2° 8 | 5°10 | 15°50 | 26°58 | 12°12 | 2°17 | 14°R32 | 13° 0 | 19°31 | 27°48 | T 6 | |
| W 7 | 7 8 57 | 17° 2'39 | 3♌43 | 14°25 | 10°38 | 2°35 | 5°23 | 15°49 | 27° 1 | 12°11 | 2°17 | 14°30 | 12°56 | 19°38 | 27°55 | W 7 | |
| T 8 | 7 12 54 | 18° 3'48 | 18°58 | 13° 6 | 11°53 | 3° 3 | 5°37 | 15°48 | 27° 4 | 12°10 | 2°16 | 14°27 | 12°53 | 19°44 | 28° 2 | T 8 | |
| F 9 | 7 16 51 | 19° 4'57 | 4♌15 | 11°51 | 13° 8 | 3°30 | 5°50 | 15°47 | 27° 7 | 12° 9 | 2°16 | 14°23 | 12°50 | 19°51 | 28° 9 | F 9 | |
| S 10 | 7 20 47 | 20° 6'06 | 19°22 | 10°44 | 14°22 | 3°58 | 6° 4 | 15°46 | 27°10 | 12° 8 | 2°16 | 14°17 | 12°47 | 19°58 | 28°16 | S 10 | |
| S 11 | 7 24 44 | 21° 7'15 | 4♌12 | 9°45 | 15°37 | 4°26 | 6°17 | 15°45 | 27°12 | 12° 7 | 2°16 | 14°12 | 12°44 | 20° 4 | 28°23 | S 11 | |
| M12 | 7 28 40 | 22° 8'24 | 18°36 | 8°56 | 16°52 | 4°55 | 6°31 | 15°45 | 27°15 | 12° 6 | 2°16 | 14° 7 | 12°40 | 20°11 | 28°30 | M12 | |
| T 13 | 7 32 37 | 23° 9'32 | 2♍32 | 8°16 | 18° 7 | 5°23 | 6°44 | 15°44 | 27°18 | 12° 5 | 2°16 | 14° 3 | 12°37 | 20°18 | 28°36 | T 13 | |
| W14 | 7 36 33 | 24°10'40 | 15°59 | 7°47 | 19°21 | 5°52 | 6°57 | 15°44 | 27°22 | 12° 5 | 2°16 | 14° 1 | 12°34 | 20°24 | 28°43 | W14 | |
| T 15 | 7 40 30 | 25°11'48 | 28°59 | 7°28 | 20°36 | 6°21 | 7°11 | 15°44 | 27°25 | 12° 3 | 2°D16 | 14°D 1 | 12°31 | 20°31 | 28°50 | T 15 | |
| F 16 | 7 44 26 | 26°12'56 | 11♌37 | 7°19 | 21°51 | 6°50 | 7°24 | 15°44 | 27°28 | 12° 2 | 2°16 | 14° 2 | 12°28 | 20°38 | 28°56 | F 16 | |
| S 17 | 7 48 23 | 27°14'03 | 23°56 | 7°D19 | 23° 5 | 7°20 | 7°37 | 15°D44 | 27°31 | 12° 1 | 2°16 | 14° 4 | 12°25 | 20°44 | 29° 3 | S 17 | |
| S 18 | 7 52 20 | 28°15'10 | 6♍ 1 | 7°28 | 24°20 | 7°49 | 7°51 | 15°44 | 27°34 | 12° 0 | 2°16 | 14° 5 | 12°21 | 20°51 | 29°10 | S 18 | |
| M19 | 7 56 16 | 29°16'16 | 17°57 | 7°44 | 25°35 | 8°19 | 8° 4 | 15°44 | 27°37 | 11°59 | 2°16 | 14°R 5 | 12°18 | 20°58 | 29°16 | M19 | |
| T 20 | 8 0 13 | 0♌17'22 | 29°48 | 8° 7 | 26°49 | 8°49 | 8°17 | 15°44 | 27°40 | 11°58 | 2°16 | 14° 4 | 12°15 | 21° 5 | 29°23 | T 20 | |
| W21 | 8 4 9 | 1°18'28 | 11♌37 | 8°37 | 28° 4 | 9°20 | 8°30 | 15°45 | 27°43 | 11°57 | 2°16 | 14° 0 | 12°12 | 21°11 | 29°29 | W21 | |
| T 22 | 8 8 6 | 2°19'33 | 23°26 | 9°13 | 29°18 | 9°50 | 8°43 | 15°45 | 27°47 | 11°56 | 2°16 | 13°54 | 12° 9 | 21°18 | 29°36 | T 22 | |
| F 23 | 8 12 2 | 3°20'38 | 5♌17 | 9°54 | 0♌33 | 10°21 | 8°56 | 15°46 | 27°50 | 11°54 | 2°17 | 13°45 | 12° 6 | 21°25 | 29°42 | F 23 | |
| S 24 | 8 15 59 | 4°21'42 | 17°13 | 10°40 | 1°47 | 10°51 | 9° 9 | 15°47 | 27°53 | 11°53 | 2°17 | 13°36 | 12° 2 | 21°31 | 29°48 | S 24 | |
| S 25 | 8 19 55 | 5°22'46 | 29°14 | 11°31 | 3° 2 | 11°22 | 9°22 | 15°48 | 27°56 | 11°52 | 2°17 | 13°25 | 11°59 | 21°38 | 29°54 | S 25 | |
| M26 | 8 23 52 | 6°23'50 | 11♍22 | 12°25 | 4°16 | 11°54 | 9°35 | 15°49 | 28° 0 | 11°51 | 2°17 | 13°15 | 11°56 | 21°45 | 0♃ 1 | M26 | |
| T 27 | 8 27 49 | 7°24'53 | 23°39 | 13°22 | 5°30 | 12°25 | 9°48 | 15°50 | 28° 3 | 11°49 | 2°17 | 13° 6 | 11°53 | 21°51 | 0° 7 | T 27 | |
| W28 | 8 31 45 | 8°25'56 | 6♌ 6 | 14°23 | 6°45 | 12°56 | 10° 1 | 15°51 | 28° 6 | 11°48 | 2°18 | 12°59 | 11°50 | 21°58 | 0°13 | W28 | |
| T 29 | 8 35 42 | 9°26'59 | 18°47 | 15°26 | 7°59 | 13°28 | 10°14 | 15°52 | 28°10 | 11°47 | 2°18 | 12°54 | 11°46 | 22° 5 | 0°19 | T 29 | |
| F 30 | 8 39 38 | 10°28'01 | 1♍43 | 16°32 | 9°13 | 14° 0 | 10°27 | 15°54 | 28°13 | 11°45 | 2°18 | 12°52 | 11°43 | 22°11 | 0°25 | F 30 | |
| S 31 | 8 43 35 | 11°29'03 | 14♍59 | 17°30 | 10♌27 | 14♌31 | 10°39 | 15°55 | 28°16 | 11♍44 | 2♃19 | 12°D51 | 11♌40 | 22°18 | 0♃31 | S 31 | |

Delta T = 19m29s

FEBRUARY 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|------|--------|-------|-------|------|------|-----|
| S 1 | 8 47 31 | 12°30'05 | 28♍37 | 18♌51 | 11♌42 | 15♌ 3 | 10♌52 | 15♌57 | 28°20 | 11°R43 | 2♃19 | 12♌52 | 11♌37 | 22°25 | 0♃37 | S 1 | |
| M 2 | 8 51 28 | 13°31'06 | 12♌39 | 20° 3 | 12°56 | 15°36 | 11° 5 | 15°59 | 28°23 | 11♍41 | 2°19 | 12°R53 | 11°34 | 22°31 | 0°43 | M 2 | |
| T 3 | 8 55 24 | 14°32'07 | 27° 6 | 21°17 | 14°10 | 16° 8 | 11°17 | 16° 1 | 28°27 | 11°40 | 2°20 | 12°52 | 11°31 | 22°38 | 0°49 | T 3 | |
| W 4 | 8 59 21 | 15°33'08 | 11♌54 | 22°33 | 15°24 | 16°40 | 11°30 | 16° 3 | 28°30 | 11°38 | 2°20 | 12°49 | 11°27 | 22°45 | 0°55 | W 4 | |
| T 5 | 9 3 18 | 16°34'07 | 26°58 | 23°50 | 16°38 | 17°13 | 11°42 | 16° 5 | 28°33 | 11°37 | 2°21 | 12°43 | 11°24 | 22°51 | 1° 0 | T 5 | |
| F 6 | 9 7 14 | 17°35'06 | 12♌11 | 25° 8 | 17°52 | 17°45 | 11°55 | 16° 7 | 28°37 | 11°35 | 2°21 | 12°35 | 11°21 | 22°58 | 1° 6 | F 6 | |
| S 7 | 9 11 11 | 18°36'04 | 27°20 | 26°28 | 19° 6 | 18°18 | 12° 7 | 16° 9 | 28°40 | 11°34 | 2°22 | 12°24 | 11°18 | 23° 5 | 1°12 | S 7 | |
| S 8 | 9 15 7 | 19°37'02 | 12♌16 | 27°49 | 20°20 | 18°51 | 12°19 | 16°12 | 28°44 | 11°32 | 2°22 | 12°14 | 11°15 | 23°11 | 1°17 | S 8 | |
| M 9 | 9 19 4 | 20°37'58 | 26°50 | 29°11 | 21°34 | 19°24 | 12°31 | 16°14 | 28°47 | 11°31 | 2°23 | 12° 4 | 11°11 | 23°18 | 1°23 | M 9 | |
| T 10 | 9 23 0 | 21°38'52 | 10♍57 | 0♌34 | 22°48 | 19°57 | 12°44 | 16°17 | 28°51 | 11°29 | 2°23 | 11°55 | 11° 8 | 23°25 | 1°28 | T 10 | |
| W11 | 9 26 57 | 22°39'46 | 24°33 | 1°59 | 24° 1 | 20°31 | 12°56 | 16°20 | 28°54 | 11°28 | 2°24 | 11°50 | 11° 5 | 23°31 | 1°33 | W11 | |
| T 12 | 9 30 53 | 23°40'38 | 7♌40 | 3°24 | 25°15 | 21° 4 | 13° 8 | 16°22 | 28°58 | 11°26 | 2°24 | 11°46 | 11° 2 | 23°38 | 1°39 | T 12 | |
| F 13 | 9 34 50 | 24°41'29 | 20°21 | 4°50 | 26°29 | 21°38 | 13°20 | 16°25 | 29° 1 | 11°24 | 2°25 | 11°D45 | 10°59 | 23°45 | 1°44 | F 13 | |
| S 14 | 9 38 47 | 25°42'19 | 2♍41 | 6°17 | 27°42 | 22°11 | 13°31 | 16°28 | 29° 4 | 11°23 | 2°26 | 11°45 | 10°56 | 23°51 | 1°49 | S 14 | |
| S 15 | 9 42 43 | 26°43'07 | 14°45 | 7°45 | 28°56 | 22°45 | 13°43 | 16°31 | 29° 8 | 11°21 | 2°26 | 11°R45 | 10°52 | 23°58 | 1°54 | S 15 | |
| M16 | 9 46 40 | 27°43'54 | 26°39 | 9°14 | 0♍ 9 | 23°19 | 13°55 | 16°35 | 29°11 | 11°20 | 2°27 | 11°44 | 10°49 | 24° 5 | 1°59 | M16 | |
| T 17 | 9 50 36 | 28°44'40 | 8♌27 | 10°44 | 1°23 | 23°52 | 14° 6 | 16°38 | 29°15 | 11°18 | 2°28 | 11°41 | 10°46 | 24°12 | 2° 4 | T 17 | |
| W18 | 9 54 33 | 29°45'24 | 20°15 | 12°14 | 2°36 | 24°26 | 14°18 | 16°41 | 29°18 | 11°16 | 2°29 | 11°36 | 10°43 | 24°18 | 2° 9 | W18 | |
| T 19 | 9 58 29 | 0♌46'06 | 2♌ 5 | 13°45 | 3°50 | 25° 0 | 14°29 | 16°45 | 29°22 | 11°15 | 2°29 | 11°27 | 10°40 | 24°25 | 2°14 | T 19 | |
| F 20 | 10 2 26 | 1°46'48 | 14° 1 | 15°18 | 5° 3 | 25°34 | 14°41 | 16°49 | 29°25 | 11°13 | 2°30 | 11°15 | 10°37 | 24°32 | 2°19 | F 20 | |
| S 21 | 10 6 22 | 2°47'27 | 26° 4 | 16°51 | 6°16 | 26° 9 | 14°52 | 16°52 | 29°29 | 11°11 | 2°31 | 11° 2 | 10°33 | 24°38 | 2°23 | S 21 | |
| S 22 | 10 10 19 | 3°48'06 | 8♍17 | 18°25 | 7°29 | 26°43 | 15° 3 | 16°56 | 29°32 | 11°10 | 2°32 | 10°48 | 10°30 | 24°45 | 2°28 | S 22 | |
| M23 | 10 14 16 | 4°48'42 | 20°38 | 20° 0 | 8°42 | 27°17 | 15°14 | 17° 0 | 29°36 | 11° 8 | 2°32 | 10°33 | 10°27 | 24°52 | 2°32 | M23 | |
| T 24 | 10 18 12 | 5°49'18 | 3♌ 9 | 21°35 | 9°55 | 27°52 | 15°26 | 17° 4 | 29°39 | 11° 6 | 2°33 | 10°21 | 10°24 | 24°58 | 2°37 | T 24 | |
| W25 | 10 22 9 | 6°49'52 | 15°50 | 23°12 | 11° 8 | 28°26 | 15°36 | 17° 8 | 29°43 | 11° 5 | 2°34 | 10°10 | 10°21 | 25° 5 | 2°41 | W25 | |
| T 26 | 10 26 5 | 7°50'26 | 28°43 | 24°49 | 12°21 | 29° 1 | 15°47 | 17°12 | 29°46 | 11° 3 | 2°35 | 10° 3 | 10°17 | 25°12 | 2°45 | T 26 | |
| F 27 | 10 30 2 | 8°50'57 | 11♍47 | 26°28 | 13°34 | 29°35 | 15°58 | 17°17 | 29°50 | 11° 1 | 2°36 | 9°58 | 10°14 | 25°18 | 2°50 | F 27 | |
| S 28 | 10 33 58 | 9°51'28 | 25♍ 5 | 28° 7 | 14♍47 | 0♍10 | 16°39 | 17°21 | 29°53 | 11♍ 0 | 2♃37 | 9°57 | 10°11 | 25°25 | 2♃54 | S 28 | |

Delta T = 19m30s

ASTRODIENST EPHEMERIS for the year 2589
geocentric

MARCH 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|-------|------|------|
| S 1 | 10 37 55 | 10♌51'58 | 8♌39 | 29♌47 | 15♌59 | 0♏45 | 16♌19 | 17♌25 | 29♌57 | 10♌R58 | 2♌38 | 9♌R56 | 10♌ 8 | 25♌32 | 2♌58 | S 1 |
| M 2 | 10 41 51 | 11°52'26 | 22°31 | 1♌28 | 17°12 | 1°20 | 16°30 | 17°30 | 29°59 | 10♌56 | 2°39 | 9♌56 | 10° 5 | 25°38 | 3° 2 | M 2 |
| T 3 | 10 45 48 | 12°52'53 | 6♌31 | 3°10 | 18°24 | 1°54 | 16°40 | 17°34 | 0♌ 3 | 10°55 | 2°40 | 9°55 | 10° 2 | 25°45 | 3° 6 | T 3 |
| W 4 | 10 49 44 | 13°53'19 | 21° 9 | 4°53 | 19°37 | 2°29 | 16°51 | 17°39 | 0° 7 | 10°53 | 2°41 | 9°51 | 9°58 | 25°52 | 3° 9 | W 4 |
| T 5 | 10 53 41 | 14°53'43 | 5♌51 | 6°37 | 20°49 | 3° 4 | 17° 1 | 17°44 | 0°10 | 10°51 | 2°42 | 9°45 | 9°55 | 25°58 | 3°13 | T 5 |
| F 6 | 10 57 38 | 15°54'06 | 20°42 | 8°22 | 22° 2 | 3°40 | 17°11 | 17°49 | 0°14 | 10°50 | 2°43 | 9°36 | 9°52 | 26° 5 | 3°17 | F 6 |
| S 7 | 11 1 34 | 16°54'28 | 5♌33 | 10° 8 | 23°14 | 4°15 | 17°21 | 17°54 | 0°17 | 10°48 | 2°44 | 9°25 | 9°49 | 26°12 | 3°20 | S 7 |
| S 8 | 11 5 31 | 17°54'47 | 20°17 | 11°54 | 24°26 | 4°50 | 17°31 | 17°59 | 0°20 | 10°46 | 2°45 | 9°13 | 9°46 | 26°19 | 3°24 | S 8 |
| M 9 | 11 9 27 | 18°55'05 | 4♌45 | 13°42 | 25°38 | 5°25 | 17°40 | 18° 4 | 0°24 | 10°45 | 2°46 | 9° 1 | 9°43 | 26°25 | 3°27 | M 9 |
| T 10 | 11 13 24 | 19°55'21 | 18°50 | 15°31 | 26°50 | 6° 0 | 17°50 | 18° 9 | 0°27 | 10°43 | 2°47 | 8°51 | 9°39 | 26°32 | 3°31 | T 10 |
| W 11 | 11 17 20 | 20°55'36 | 2♌28 | 17°21 | 28° 2 | 6°36 | 18° 0 | 18°14 | 0°30 | 10°41 | 2°48 | 8°44 | 9°36 | 26°39 | 3°34 | W 11 |
| T 12 | 11 21 17 | 21°55'48 | 15°39 | 19°12 | 29°14 | 7°11 | 18° 9 | 18°19 | 0°34 | 10°40 | 2°49 | 8°40 | 9°33 | 26°45 | 3°37 | T 12 |
| F 13 | 11 25 13 | 22°55'59 | 28°25 | 21° 4 | 0♌25 | 7°47 | 18°18 | 18°25 | 0°37 | 10°38 | 2°50 | 8°38 | 9°30 | 26°52 | 3°40 | F 13 |
| S 14 | 11 29 10 | 23°56'07 | 10♏49 | 22°57 | 1°37 | 8°22 | 18°28 | 18°30 | 0°40 | 10°36 | 2°51 | 8°D37 | 9°27 | 26°59 | 3°43 | S 14 |
| S 15 | 11 33 7 | 24°56'14 | 22°56 | 24°51 | 2°49 | 8°58 | 18°37 | 18°36 | 0°43 | 10°35 | 2°52 | 8°R37 | 9°23 | 27° 5 | 3°46 | S 15 |
| M 16 | 11 37 3 | 25°56'18 | 4♌52 | 26°46 | 4° 0 | 9°33 | 18°46 | 18°41 | 0°47 | 10°33 | 2°53 | 8°37 | 9°20 | 27°12 | 3°48 | M 16 |
| T 17 | 11 41 0 | 26°56'20 | 16°42 | 28°41 | 5°11 | 10° 9 | 18°54 | 18°47 | 0°50 | 10°32 | 2°55 | 8°35 | 9°17 | 27°19 | 3°51 | T 17 |
| W 18 | 11 44 56 | 27°56'20 | 28°31 | 0♌38 | 6°23 | 10°45 | 19° 3 | 18°53 | 0°53 | 10°30 | 2°56 | 8°31 | 9°14 | 27°25 | 3°54 | W 18 |
| T 19 | 11 48 53 | 28°56'18 | 10♌24 | 2°35 | 7°34 | 11°20 | 19°12 | 18°59 | 0°56 | 10°28 | 2°57 | 8°24 | 9°11 | 27°32 | 3°56 | T 19 |
| F 20 | 11 52 49 | 29°56'14 | 22°24 | 4°32 | 8°45 | 11°56 | 19°20 | 19° 5 | 0°59 | 10°27 | 2°58 | 8°15 | 9° 8 | 27°39 | 3°59 | F 20 |
| S 21 | 11 56 46 | 0♌56'08 | 4♌35 | 6°30 | 9°55 | 12°32 | 19°28 | 19°10 | 1° 3 | 10°25 | 2°59 | 8° 4 | 9° 4 | 27°45 | 4° 1 | S 21 |
| S 22 | 12 0 42 | 1°55'59 | 16°59 | 8°29 | 11° 6 | 13° 8 | 19°37 | 19°16 | 1° 6 | 10°24 | 3° 1 | 7°51 | 9° 1 | 27°52 | 4° 3 | S 22 |
| M 23 | 12 4 39 | 2°55'49 | 29°35 | 10°27 | 12°17 | 13°43 | 19°45 | 19°23 | 1° 9 | 10°22 | 3° 2 | 7°39 | 8°58 | 27°59 | 4° 5 | M 23 |
| T 24 | 12 8 36 | 3°55'37 | 12♌24 | 12°25 | 13°27 | 14°19 | 19°53 | 19°29 | 1°12 | 10°21 | 3° 3 | 7°28 | 8°55 | 28° 6 | 4° 7 | T 24 |
| W 25 | 12 12 32 | 4°55'23 | 25°25 | 14°23 | 14°38 | 14°55 | 20° 0 | 19°35 | 1°15 | 10°19 | 3° 4 | 7°20 | 8°52 | 28°12 | 4° 9 | W 25 |
| T 26 | 12 16 29 | 5°55'07 | 8♌38 | 16°20 | 15°48 | 15°31 | 20° 8 | 19°41 | 1°18 | 10°18 | 3° 6 | 7°13 | 8°48 | 28°19 | 4°11 | T 26 |
| F 27 | 12 20 25 | 6°54'49 | 22° 2 | 18°16 | 16°58 | 16° 7 | 20°15 | 19°47 | 1°21 | 10°16 | 3° 7 | 7°10 | 8°45 | 28°26 | 4°13 | F 27 |
| S 28 | 12 24 22 | 7°54'30 | 5♌36 | 20°10 | 18° 8 | 16°43 | 20°23 | 19°54 | 1°24 | 10°15 | 3° 8 | 7°D 9 | 8°42 | 28°32 | 4°14 | S 28 |
| S 29 | 12 28 18 | 8°54'09 | 19°20 | 22° 3 | 19°18 | 17°19 | 20°30 | 20° 0 | 1°27 | 10°13 | 3° 9 | 7° 9 | 8°39 | 28°39 | 4°16 | S 29 |
| M 30 | 12 32 15 | 9°53'46 | 3♌14 | 23°53 | 20°28 | 17°55 | 20°37 | 20° 7 | 1°30 | 10°12 | 3°11 | 7°R10 | 8°36 | 28°46 | 4°17 | M 30 |
| T 31 | 12 36 11 | 10♌53'22 | 17♌18 | 25♌40 | 21♌38 | 18♏31 | 20♌44 | 20♌13 | 1♌33 | 10♌11 | 3♌12 | 7♌10 | 8♌33 | 28♌52 | 4♌19 | T 31 |

Delta T = 19m30s

APRIL 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|------|--------|------|-------|------|-------|-------|------|
| W 1 | 12 40 8 | 11♌52'56 | 1♌32 | 27♌25 | 22♌47 | 19♏ 7 | 20♌51 | 20♌20 | 1♌36 | 10♌R 9 | 3♌13 | 7°R 8 | 8♌29 | 28♌59 | 4♌20 | W 1 |
| T 2 | 12 44 5 | 12°52'28 | 15°53 | 29° 6 | 23°57 | 19°43 | 20°58 | 20°26 | 1°38 | 10♌ 8 | 3°15 | 7♌ 5 | 8°26 | 29° 6 | 4°21 | T 2 |
| F 3 | 12 48 1 | 13°51'59 | 0♌18 | 0♌42 | 25° 6 | 20°20 | 21° 4 | 20°33 | 1°41 | 10° 7 | 3°16 | 6°58 | 8°23 | 29°12 | 4°22 | F 3 |
| S 4 | 12 51 58 | 14°51'27 | 14°42 | 2°15 | 26°15 | 20°56 | 21°10 | 20°40 | 1°44 | 10° 5 | 3°17 | 6°51 | 8°20 | 29°19 | 4°23 | S 4 |
| S 5 | 12 55 54 | 15°50'54 | 29° 0 | 3°42 | 27°24 | 21°32 | 21°17 | 20°46 | 1°47 | 10° 4 | 3°19 | 6°42 | 8°17 | 29°26 | 4°24 | S 5 |
| M 6 | 12 59 51 | 16°50'19 | 13♌ 5 | 5° 4 | 28°33 | 22° 8 | 21°23 | 20°53 | 1°49 | 10° 3 | 3°20 | 6°34 | 8°14 | 29°32 | 4°25 | M 6 |
| T 7 | 13 3 47 | 17°49'42 | 26°53 | 6°21 | 29°41 | 22°45 | 21°28 | 21° 0 | 1°52 | 10° 1 | 3°21 | 6°27 | 8°10 | 29°39 | 4°25 | T 7 |
| W 8 | 13 7 44 | 18°49'03 | 10♌21 | 7°32 | 0♏50 | 23°21 | 21°34 | 21° 7 | 1°55 | 10° 0 | 3°23 | 6°22 | 8° 7 | 29°46 | 4°26 | W 8 |
| T 9 | 13 11 40 | 19°48'21 | 23°27 | 8°36 | 1°58 | 23°57 | 21°40 | 21°14 | 1°57 | 9°59 | 3°24 | 6°19 | 8° 4 | 29°53 | 4°26 | T 9 |
| F 10 | 13 15 37 | 20°47'38 | 6♏11 | 9°35 | 3° 7 | 24°34 | 21°45 | 21°21 | 2° 0 | 9°58 | 3°25 | 6°D18 | 8° 1 | 29°59 | 4°27 | F 10 |
| S 11 | 13 19 33 | 21°46'52 | 18°36 | 10°26 | 4°15 | 25°10 | 21°50 | 21°28 | 2° 2 | 9°57 | 3°27 | 6°19 | 7°58 | 0♏ 6 | 4°27 | S 11 |
| S 12 | 13 23 30 | 22°46'05 | 0♌46 | 11°11 | 5°22 | 25°46 | 21°55 | 21°35 | 2° 5 | 9°55 | 3°28 | 6°20 | 7°54 | 0°13 | 4°27 | S 12 |
| M 13 | 13 27 27 | 23°45'14 | 12°44 | 11°49 | 6°30 | 26°23 | 22° 0 | 21°42 | 2° 7 | 9°54 | 3°30 | 6°22 | 7°51 | 0°19 | 4°R27 | M 13 |
| T 14 | 13 31 23 | 24°44'22 | 24°36 | 12°20 | 7°38 | 26°59 | 22° 5 | 21°49 | 2°10 | 9°53 | 3°31 | 6°R22 | 7°48 | 0°26 | 4°27 | T 14 |
| W 15 | 13 35 20 | 25°43'27 | 6♏27 | 12°44 | 8°45 | 27°36 | 22°10 | 21°56 | 2°12 | 9°52 | 3°32 | 6°21 | 7°45 | 0°33 | 4°27 | W 15 |
| T 16 | 13 39 16 | 26°42'30 | 18°22 | 13° 2 | 9°52 | 28°12 | 22°14 | 22° 3 | 2°15 | 9°51 | 3°34 | 6°19 | 7°42 | 0°39 | 4°27 | T 16 |
| F 17 | 13 43 13 | 27°41'31 | 0♏26 | 13°12 | 10°59 | 28°48 | 22°18 | 22°11 | 2°17 | 9°50 | 3°35 | 6°15 | 7°39 | 0°46 | 4°27 | F 17 |
| S 18 | 13 47 9 | 28°40'30 | 12°41 | 13°R15 | 12° 6 | 29°25 | 22°22 | 22°18 | 2°19 | 9°49 | 3°37 | 6°10 | 7°35 | 0°53 | 4°26 | S 18 |
| S 19 | 13 51 6 | 29°39'26 | 25°12 | 13°12 | 13°12 | 0♌ 1 | 22°26 | 22°25 | 2°22 | 9°48 | 3°38 | 6° 3 | 7°32 | 1° 0 | 4°26 | S 19 |
| M 20 | 13 55 2 | 0♌38'20 | 8♌ 0 | 13° 3 | 14°19 | 0°38 | 22°30 | 22°33 | 2°24 | 9°47 | 3°39 | 5°57 | 7°29 | 1° 6 | 4°25 | M 20 |
| T 21 | 13 58 59 | 1°37'12 | 21° 5 | 12°47 | 15°25 | 1°14 | 22°33 | 22°40 | 2°26 | 9°46 | 3°41 | 5°52 | 7°26 | 1°13 | 4°24 | T 21 |
| W 22 | 14 2 56 | 2°36'02 | 4♌27 | 12°26 | 16°30 | 1°51 | 22°37 | 22°47 | 2°28 | 9°45 | 3°42 | 5°47 | 7°23 | 1°20 | 4°24 | W 22 |
| T 23 | 14 6 52 | 3°34'50 | 18° 4 | 12° 0 | 17°36 | 2°28 | 22°40 | 22°55 | 2°30 | 9°44 | 3°44 | 5°44 | 7°20 | 1°26 | 4°23 | T 23 |
| F 24 | 14 10 49 | 4°33'37 | 1♌53 | 11°30 | 18°42 | 3° 4 | 22°43 | 23° 2 | 2°32 | 9°44 | 3°45 | 5°D43 | 7°16 | 1°33 | 4°22 | F 24 |
| S 25 | 14 14 45 | 5°32'21 | 15°52 | 10°55 | 19°47 | 3°41 | 22°46 | 23°10 | 2°34 | 9°43 | 3°46 | 5°43 | 7°13 | 1°40 | 4°21 | S 25 |
| S 26 | 14 18 42 | 6°31'04 | 29°57 | 10°18 | 20°52 | 4°17 | 22°48 | 23°17 | 2°36 | 9°42 | 3°48 | 5°45 | 7°10 | 1°46 | 4°20 | S 26 |
| M 27 | 14 22 38 | 7°29'45 | 14♌ 7 | 9°38 | 21°56 | 4°54 | 22°51 | 23°25 | 2°38 | 9°41 | 3°49 | 5°46 | 7° 7 | 1°53 | 4°18 | M 27 |
| T 28 | 14 26 35 | 8°28'25 | 28°20 | 8°56 | 23° 1 | 5°31 | 22°53 | 23°32 | 2°40 | 9°41 | 3°51 | 5°47 | 7° 4 | 2° 0 | 4°17 | T 28 |
| W 29 | 14 30 31 | 9°27'02 | 12♌31 | 8°14 | 24° 5 | 6° 7 | 22°55 | 23°40 | 2°42 | 9°40 | 3°52 | 5°R48 | 7° 0 | 2° 6 | 4°16 | W 29 |
| T 30 | 14 34 28 | 10♌25'39 | 26♌41 | 7♌32 | 25♏ 9 | 6♌44 | 22♌57 | 23♌47 | 2♌44 | 9♌39 | 3♌53 | 5♌47 | 6♌57 | 2♌13 | 4♌14 | T 30 |

Delta T = 19m30s

ASTRODIENST EPHEMERIS for the year 2589
geocentric

MAY 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|------|-------|------|-------|------|------|-------|------|
| F 1 | 14 38 25 | 11♌24°13 | 10♋47 | 6♍R50 | 26♎12 | 7♏20 | 22♏59 | 23♏55 | 2♋45 | 9♍R39 | 3♌55 | 5♍R45 | 6♎54 | 2♎20 | 4♍R13 | F 1 |
| S 2 | 14 42 21 | 12°22'46 | 24°46 | 6♌10 | 27°16 | 7°57 | 23° 0 | 24° 2 | 2°47 | 9♎38 | 3°56 | 5♎42 | 6°51 | 2°27 | 4♌11 | S 2 |
| S 3 | 14 46 18 | 13°21'17 | 8♍35 | 5°32 | 28°19 | 8°34 | 23° 2 | 24°10 | 2°49 | 9°37 | 3°57 | 5°39 | 6°48 | 2°33 | 4° 9 | S 3 |
| M 4 | 14 50 14 | 14°19'47 | 22°12 | 4°56 | 29°22 | 9°11 | 23° 3 | 24°18 | 2°50 | 9°37 | 3°59 | 5°36 | 6°45 | 2°40 | 4° 7 | M 4 |
| T 5 | 14 54 11 | 15°18'15 | 5♌36 | 4°24 | 0♌24 | 9°47 | 23° 4 | 24°25 | 2°52 | 9°36 | 4° 0 | 5°33 | 6°41 | 2°47 | 4° 5 | T 5 |
| W 6 | 14 58 7 | 16°16'41 | 18°43 | 3°56 | 1°26 | 10°24 | 23° 5 | 24°33 | 2°54 | 9°36 | 4° 2 | 5°31 | 6°38 | 2°53 | 4° 3 | W 6 |
| T 7 | 15 2 4 | 17°15'05 | 1♎35 | 3°32 | 2°28 | 11° 1 | 23° 5 | 24°41 | 2°55 | 9°36 | 4° 3 | 5°D30 | 6°35 | 3° 0 | 4° 1 | T 7 |
| F 8 | 15 6 0 | 18°13'28 | 14°10 | 3°12 | 3°30 | 11°37 | 23° 6 | 24°48 | 2°57 | 9°35 | 4° 4 | 5°31 | 6°32 | 3° 7 | 3°59 | F 8 |
| S 9 | 15 9 57 | 19°11'49 | 26°30 | 2°56 | 4°31 | 12°14 | 23° 6 | 24°56 | 2°58 | 9°35 | 4° 6 | 5°31 | 6°29 | 3°13 | 3°57 | S 9 |
| S 10 | 15 13 54 | 20°10'07 | 8♌37 | 2°46 | 5°32 | 12°51 | 23°R 6 | 25° 4 | 2°59 | 9°34 | 4° 7 | 5°33 | 6°25 | 3°20 | 3°55 | S 10 |
| M 11 | 15 17 50 | 21° 8'24 | 20°36 | 2°40 | 6°32 | 13°28 | 23° 6 | 25°11 | 3° 1 | 9°34 | 4° 8 | 5°34 | 6°22 | 3°27 | 3°52 | M 11 |
| T 12 | 15 21 47 | 22° 6'39 | 2♎29 | 2°D39 | 7°32 | 14° 5 | 23° 5 | 25°19 | 3° 2 | 9°34 | 4°10 | 5°35 | 6°19 | 3°34 | 3°50 | T 12 |
| W 13 | 15 25 43 | 23° 4'52 | 14°20 | 2°43 | 8°32 | 14°41 | 23° 5 | 25°27 | 3° 3 | 9°34 | 4°11 | 5°36 | 6°16 | 3°40 | 3°47 | W 13 |
| T 14 | 15 29 40 | 24° 3'02 | 26°16 | 2°51 | 9°31 | 15°18 | 23° 4 | 25°34 | 3° 4 | 9°33 | 4°12 | 5°R36 | 6°13 | 3°47 | 3°44 | T 14 |
| F 15 | 15 33 36 | 25° 1'11 | 8♎19 | 3° 4 | 10°30 | 15°55 | 23° 3 | 25°42 | 3° 5 | 9°33 | 4°14 | 5°36 | 6°10 | 3°54 | 3°42 | F 15 |
| S 16 | 15 37 33 | 25°59'18 | 20°35 | 3°22 | 11°28 | 16°32 | 23° 2 | 25°50 | 3° 7 | 9°33 | 4°15 | 5°35 | 6° 6 | 4° 0 | 3°39 | S 16 |
| S 17 | 15 41 29 | 26°57'23 | 3♌ 8 | 3°44 | 12°26 | 17° 9 | 23° 1 | 25°57 | 3° 8 | 9°33 | 4°16 | 5°34 | 6° 3 | 4° 7 | 3°36 | S 17 |
| M 18 | 15 45 26 | 27°55'26 | 16° 1 | 4°11 | 13°24 | 17°45 | 22°59 | 26° 5 | 3° 9 | 9°33 | 4°18 | 5°33 | 6° 0 | 4°14 | 3°33 | M 18 |
| T 19 | 15 49 23 | 28°53'27 | 29°15 | 4°41 | 14°21 | 18°22 | 22°57 | 26°13 | 3° 9 | 9°33 | 4°19 | 5°32 | 5°57 | 4°20 | 3°30 | T 19 |
| W 20 | 15 53 19 | 29°51'27 | 12♎51 | 5°16 | 15°17 | 18°59 | 22°56 | 26°20 | 3°10 | 9°D33 | 4°20 | 5°31 | 5°54 | 4°27 | 3°27 | W 20 |
| T 21 | 15 57 16 | 0♎49'25 | 26°47 | 5°55 | 16°13 | 19°36 | 22°54 | 26°28 | 3°11 | 9°33 | 4°22 | 5°31 | 5°51 | 4°34 | 3°24 | T 21 |
| F 22 | 16 1 12 | 1°47'22 | 11♌ 0 | 6°37 | 17° 9 | 20°13 | 22°51 | 26°36 | 3°12 | 9°33 | 4°23 | 5°D31 | 5°47 | 4°41 | 3°21 | F 22 |
| S 23 | 16 5 9 | 2°45'17 | 25°26 | 7°23 | 18° 4 | 20°50 | 22°49 | 26°44 | 3°13 | 9°33 | 4°24 | 5°31 | 5°44 | 4°47 | 3°18 | S 23 |
| S 24 | 16 9 5 | 3°43'10 | 10♌ 0 | 8°12 | 18°58 | 21°26 | 22°46 | 26°51 | 3°13 | 9°33 | 4°25 | 5°31 | 5°41 | 4°54 | 3°14 | S 24 |
| M 25 | 16 13 2 | 4°41'03 | 24°34 | 9° 5 | 19°52 | 22° 3 | 22°44 | 26°59 | 3°14 | 9°33 | 4°27 | 5°32 | 5°38 | 5° 1 | 3°11 | M 25 |
| T 26 | 16 16 58 | 5°38'54 | 9♌ 5 | 10° 2 | 20°45 | 22°40 | 22°41 | 27° 7 | 3°15 | 9°33 | 4°28 | 5°R32 | 5°35 | 5° 7 | 3° 8 | T 26 |
| W 27 | 16 20 55 | 6°36'44 | 23°27 | 11° 1 | 21°37 | 23°17 | 22°37 | 27°14 | 3°15 | 9°34 | 4°29 | 5°32 | 5°31 | 5°14 | 3° 4 | W 27 |
| T 28 | 16 24 52 | 7°34'33 | 7♋38 | 12° 3 | 22°29 | 23°54 | 22°34 | 27°22 | 3°16 | 9°34 | 4°30 | 5°D32 | 5°28 | 5°21 | 3° 1 | T 28 |
| F 29 | 16 28 48 | 8°32'20 | 21°35 | 13° 9 | 23°21 | 24°31 | 22°31 | 27°29 | 3°16 | 9°34 | 4°32 | 5°32 | 5°25 | 5°27 | 2°57 | F 29 |
| S 30 | 16 32 45 | 9°30'07 | 5♍18 | 14°17 | 24°11 | 25° 8 | 22°27 | 27°37 | 3°17 | 9°34 | 4°33 | 5°32 | 5°22 | 5°34 | 2°53 | S 30 |
| S 31 | 16 36 41 | 10♎27'53 | 18♍45 | 15♌28 | 25♌ 1 | 25♌45 | 22♌23 | 27♌45 | 3♋17 | 9♎35 | 4♌34 | 5♎32 | 5♎19 | 5♌41 | 2♌50 | S 31 |

Delta T = 19m31s

JUNE 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|------|------|-------|------|
| M 1 | 16 40 38 | 11♎25°37 | 1♌58 | 16♌42 | 25♌50 | 26♌22 | 22°R19 | 27♌52 | 3♋17 | 9♎35 | 4♌35 | 5♎33 | 5♎16 | 5♌48 | 2♍R46 | M 1 |
| T 2 | 16 44 34 | 12°23'21 | 14°57 | 17°59 | 26°38 | 26°59 | 22♌15 | 28° 0 | 3°17 | 9°36 | 4°36 | 5°33 | 5°12 | 5°54 | 2♌42 | T 2 |
| W 3 | 16 48 31 | 13°21'03 | 27°42 | 19°18 | 27°26 | 27°36 | 22°11 | 28° 7 | 3°18 | 9°36 | 4°37 | 5°34 | 5° 9 | 6° 1 | 2°39 | W 3 |
| T 4 | 16 52 27 | 14°18'44 | 10♎15 | 20°40 | 28°13 | 28°13 | 22° 6 | 28°15 | 3°18 | 9°37 | 4°39 | 5°R34 | 5° 6 | 6° 8 | 2°35 | T 4 |
| F 5 | 16 56 24 | 15°16'24 | 22°36 | 22° 4 | 28°59 | 28°50 | 22° 2 | 28°22 | 3°18 | 9°37 | 4°40 | 5°33 | 5° 3 | 6°14 | 2°31 | F 5 |
| S 6 | 17 0 21 | 16°14'03 | 4♌47 | 23°31 | 29°44 | 29°27 | 21°57 | 28°30 | 3°18 | 9°38 | 4°41 | 5°32 | 5° 0 | 6°21 | 2°27 | S 6 |
| S 7 | 17 4 17 | 17°11'41 | 16°49 | 25° 0 | 0♎28 | 0♎ 4 | 21°52 | 28°37 | 3°R18 | 9°38 | 4°42 | 5°31 | 4°57 | 6°28 | 2°23 | S 7 |
| M 8 | 17 8 14 | 18° 9'17 | 28°45 | 26°32 | 1°11 | 0°41 | 21°47 | 28°45 | 3°18 | 9°39 | 4°43 | 5°29 | 4°53 | 6°35 | 2°19 | M 8 |
| T 9 | 17 12 10 | 19° 6'52 | 10♎37 | 28° 7 | 1°53 | 1°18 | 21°42 | 28°52 | 3°18 | 9°39 | 4°44 | 5°27 | 4°50 | 6°41 | 2°15 | T 9 |
| W 10 | 17 16 7 | 20° 4'26 | 22°28 | 29°44 | 2°34 | 1°55 | 21°36 | 28°59 | 3°18 | 9°40 | 4°45 | 5°26 | 4°47 | 6°48 | 2°11 | W 10 |
| T 11 | 17 20 3 | 21° 1'58 | 4♎23 | 1♎23 | 3°14 | 2°32 | 21°31 | 29° 7 | 3°18 | 9°41 | 4°46 | 5°24 | 4°44 | 6°55 | 2° 7 | T 11 |
| F 12 | 17 24 0 | 21°59'29 | 16°25 | 3° 5 | 3°53 | 3° 9 | 21°25 | 29°14 | 3°17 | 9°41 | 4°47 | 5°D23 | 4°41 | 7° 1 | 2° 3 | F 12 |
| S 13 | 17 27 56 | 22°56'59 | 28°39 | 4°49 | 4°31 | 3°46 | 21°19 | 29°21 | 3°17 | 9°42 | 4°48 | 5°23 | 4°37 | 7° 8 | 1°59 | S 13 |
| S 14 | 17 31 53 | 23°54'27 | 11♌ 9 | 6°36 | 5° 7 | 4°23 | 21°13 | 29°29 | 3°17 | 9°43 | 4°49 | 5°24 | 4°34 | 7°15 | 1°55 | S 14 |
| M 15 | 17 35 50 | 24°51'55 | 24° 0 | 8°25 | 5°43 | 5° 0 | 21° 7 | 29°36 | 3°16 | 9°44 | 4°50 | 5°25 | 4°31 | 7°21 | 1°51 | M 15 |
| T 16 | 17 39 46 | 25°49'21 | 7♎15 | 10°17 | 6°17 | 5°37 | 21° 1 | 29°43 | 3°16 | 9°45 | 4°51 | 5°27 | 4°28 | 7°28 | 1°47 | T 16 |
| W 17 | 17 43 43 | 26°46'46 | 20°54 | 12°11 | 6°49 | 6°14 | 20°55 | 29°50 | 3°15 | 9°46 | 4°52 | 5°28 | 4°25 | 7°35 | 1°43 | W 17 |
| T 18 | 17 47 39 | 27°44'10 | 5♎ 0 | 14° 7 | 7°20 | 6°51 | 20°48 | 29°57 | 3°15 | 9°46 | 4°53 | 5°R28 | 4°22 | 7°42 | 1°39 | T 18 |
| F 19 | 17 51 36 | 28°41'33 | 19°29 | 16° 6 | 7°50 | 7°28 | 20°42 | 0♎ 5 | 3°14 | 9°47 | 4°54 | 5°28 | 4°18 | 7°48 | 1°35 | F 19 |
| S 20 | 17 55 32 | 29°38'56 | 4♌15 | 18° 6 | 8°18 | 8° 5 | 20°35 | 0°12 | 3°14 | 9°48 | 4°55 | 5°26 | 4°15 | 7°55 | 1°30 | S 20 |
| S 21 | 17 59 29 | 0♌36'17 | 19°13 | 20° 9 | 8°45 | 8°42 | 20°29 | 0°19 | 3°13 | 9°49 | 4°56 | 5°24 | 4°12 | 8° 2 | 1°26 | S 21 |
| M 22 | 18 3 26 | 1°33'38 | 4♌13 | 22°13 | 9°10 | 9°19 | 20°22 | 0°26 | 3°12 | 9°50 | 4°56 | 5°20 | 4° 9 | 8° 8 | 1°22 | M 22 |
| T 23 | 18 7 22 | 2°30'59 | 19° 7 | 24°19 | 9°33 | 9°56 | 20°15 | 0°33 | 3°12 | 9°51 | 4°57 | 5°17 | 4° 6 | 8°15 | 1°18 | T 23 |
| W 24 | 18 11 19 | 3°28'19 | 3♋47 | 26°27 | 9°55 | 10°33 | 20° 8 | 0°40 | 3°11 | 9°53 | 4°58 | 5°14 | 4° 3 | 8°22 | 1°14 | W 24 |
| T 25 | 18 15 15 | 4°25'38 | 18° 8 | 28°36 | 10°14 | 11°10 | 20° 1 | 0°46 | 3°10 | 9°54 | 4°59 | 5°12 | 3°59 | 8°29 | 1°10 | T 25 |
| F 26 | 18 19 12 | 5°22'57 | 2♍ 7 | 0♌46 | 10°32 | 11°48 | 19°54 | 0°53 | 3° 9 | 9°55 | 5° 0 | 5°D11 | 3°56 | 8°35 | 1° 6 | F 26 |
| S 27 | 18 23 8 | 6°20'16 | 15°43 | 2°57 | 10°48 | 12°25 | 19°46 | 1° 0 | 3° 8 | 9°56 | 5° 0 | 5°11 | 3°53 | 8°42 | 1° 1 | S 27 |
| S 28 | 18 27 5 | 7°17'35 | 28°59 | 5° 9 | 11° 2 | 13° 2 | 19°39 | 1° 7 | 3° 7 | 9°57 | 5° 1 | 5°12 | 3°50 | 8°49 | 0°57 | S 28 |
| M 29 | 18 31 1 | 8°14'53 | 11♌56 | 7°21 | 11°14 | 13°39 | 19°32 | 1°13 | 3° 6 | 9°58 | 5° 2 | 5°14 | 3°47 | 8°55 | 0°53 | M 29 |
| T 30 | 18 34 58 | 9°12'12 | 24♌37 | 9♌33 | 11♎24 | 14♎16 | 19♌24 | 1♎20 | 3♋ 5 | 10♎ 0 | 5♌ 3 | 5♎15 | 3♎43 | 9♌ 2 | 0♌49 | T 30 |

Delta T = 19m31s

ASTRODIENST EPHEMERIS for the year 2589
geocentric

JULY 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|--------|-------|--------|------|-------|-------|------|-------|------|-------|-------|------|
| W 1 | 18 38 55 | 10♄ 9'30 | 7♂ 4 | 11♄44 | 11♂32 | 14♂53 | 19°R17 | 1♂27 | 3°R 4 | 10♂ 1 | 5♂ 3 | 5°R15 | 3♂40 | 9♂ 9 | 0°R45 | W 1 |
| T 2 | 18 42 51 | 11° 6'47 | 19°21 | 13°55 | 11°37 | 15°31 | 19♄ 9 | 1°33 | 3♂ 3 | 10° 2 | 5° 4 | 5♂14 | 3°37 | 9°16 | 0♄41 | T 2 |
| F 3 | 18 46 48 | 12° 4'05 | 1♄29 | 16° 5 | 11°41 | 16° 8 | 19° 2 | 1°40 | 3° 2 | 10° 4 | 5° 5 | 5°12 | 3°34 | 9°22 | 0°37 | F 3 |
| S 4 | 18 50 44 | 13° 1'22 | 13°30 | 18°14 | 11°R42 | 16°45 | 18°54 | 1°46 | 3° 0 | 10° 5 | 5° 5 | 5° 7 | 3°31 | 9°29 | 0°33 | S 4 |
| S 5 | 18 54 41 | 13°58'39 | 25°26 | 20°22 | 11°41 | 17°22 | 18°47 | 1°53 | 2°59 | 10° 6 | 5° 6 | 5° 1 | 3°28 | 9°36 | 0°29 | S 5 |
| M 6 | 18 58 37 | 14°55'55 | 7♂18 | 22°29 | 11°37 | 17°59 | 18°39 | 1°59 | 2°58 | 10° 8 | 5° 7 | 4°54 | 3°24 | 9°42 | 0°25 | M 6 |
| T 7 | 19 2 34 | 15°53'11 | 19°10 | 24°34 | 11°31 | 18°37 | 18°31 | 2° 5 | 2°56 | 10° 9 | 5° 7 | 4°46 | 3°21 | 9°49 | 0°21 | T 7 |
| W 8 | 19 6 30 | 16°50'27 | 1♂ 1 | 26°37 | 11°23 | 19°14 | 18°24 | 2°12 | 2°55 | 10°11 | 5° 8 | 4°39 | 3°18 | 9°56 | 0°18 | W 8 |
| T 9 | 19 10 27 | 17°47'42 | 12°56 | 28°39 | 11°12 | 19°51 | 18°16 | 2°18 | 2°54 | 10°12 | 5° 8 | 4°33 | 3°15 | 10° 3 | 0°14 | T 9 |
| F 10 | 19 14 24 | 18°44'56 | 24°58 | 0♂39 | 10°59 | 20°28 | 18° 8 | 2°24 | 2°52 | 10°14 | 5° 9 | 4°29 | 3°12 | 10° 9 | 0°10 | F 10 |
| S 11 | 19 18 20 | 19°42'11 | 7♄11 | 2°37 | 10°43 | 21° 6 | 18° 0 | 2°30 | 2°51 | 10°15 | 5° 9 | 4°26 | 3° 9 | 10°16 | 0° 6 | S 11 |
| S 12 | 19 22 17 | 20°39'25 | 19°38 | 4°32 | 10°25 | 21°43 | 17°53 | 2°36 | 2°49 | 10°17 | 5°10 | 4°D25 | 3° 5 | 10°23 | 0° 2 | S 12 |
| M13 | 19 26 13 | 21°36'38 | 2♂24 | 6°26 | 10° 5 | 22°20 | 17°45 | 2°42 | 2°47 | 10°18 | 5°10 | 4°26 | 3° 2 | 10°29 | 29♂59 | M13 |
| T 14 | 19 30 10 | 22°33'52 | 15°33 | 8°18 | 9°42 | 22°58 | 17°37 | 2°48 | 2°46 | 10°20 | 5°11 | 4°27 | 2°59 | 10°36 | 29°55 | T 14 |
| W15 | 19 34 6 | 23°31'05 | 29° 8 | 10° 8 | 9°18 | 23°35 | 17°30 | 2°54 | 2°44 | 10°22 | 5°11 | 4°R28 | 2°56 | 10°43 | 29°52 | W15 |
| T 16 | 19 38 3 | 24°28'18 | 13♂12 | 11°56 | 8°51 | 24°12 | 17°22 | 3° 0 | 2°43 | 10°23 | 5°12 | 4°27 | 2°53 | 10°50 | 29°48 | T 16 |
| F 17 | 19 41 59 | 25°25'30 | 27°43 | 13°42 | 8°22 | 24°50 | 17°15 | 3° 5 | 2°41 | 10°25 | 5°12 | 4°25 | 2°49 | 10°56 | 29°45 | F 17 |
| S 18 | 19 45 56 | 26°22'43 | 12♄37 | 15°26 | 7°52 | 25°27 | 17° 7 | 3°11 | 2°39 | 10°27 | 5°12 | 4°21 | 2°46 | 11° 3 | 29°41 | S 18 |
| S 19 | 19 49 53 | 27°19'56 | 27°47 | 17° 8 | 7°20 | 26° 4 | 17° 0 | 3°16 | 2°37 | 10°28 | 5°13 | 4°15 | 2°43 | 11°10 | 29°38 | S 19 |
| M20 | 19 53 49 | 28°17'08 | 13♄ 4 | 18°48 | 6°47 | 26°42 | 16°52 | 3°22 | 2°35 | 10°30 | 5°13 | 4° 8 | 2°40 | 11°16 | 29°34 | M20 |
| T 21 | 19 57 46 | 29°14'21 | 28°16 | 20°25 | 6°12 | 27°19 | 16°45 | 3°27 | 2°34 | 10°32 | 5°13 | 4° 0 | 2°37 | 11°23 | 29°31 | T 21 |
| W22 | 20 1 42 | 0♂11'35 | 13♂13 | 22° 1 | 5°36 | 27°57 | 16°37 | 3°33 | 2°32 | 10°34 | 5°14 | 3°52 | 2°34 | 11°30 | 29°28 | W22 |
| T 23 | 20 5 39 | 1° 8'48 | 27°48 | 23°35 | 5° 0 | 28°34 | 16°30 | 3°38 | 2°30 | 10°35 | 5°14 | 3°46 | 2°30 | 11°37 | 29°25 | T 23 |
| F 24 | 20 9 35 | 2° 6'02 | 11♂56 | 25° 6 | 4°23 | 29°11 | 16°23 | 3°43 | 2°28 | 10°37 | 5°14 | 3°43 | 2°27 | 11°43 | 29°22 | F 24 |
| S 25 | 20 13 32 | 3° 3'17 | 25°36 | 26°36 | 3°45 | 29°49 | 16°16 | 3°49 | 2°26 | 10°39 | 5°14 | 3°41 | 2°24 | 11°50 | 29°19 | S 25 |
| S 26 | 20 17 28 | 4° 0'33 | 8♂50 | 28° 4 | 3° 8 | 0♂26 | 16° 9 | 3°54 | 2°24 | 10°41 | 5°15 | 3°D41 | 2°21 | 11°57 | 29°16 | S 26 |
| M27 | 20 21 25 | 4°57'49 | 21°40 | 29°29 | 2°30 | 1° 4 | 16° 2 | 3°59 | 2°22 | 10°43 | 5°15 | 3°41 | 2°18 | 12° 3 | 29°13 | M27 |
| T 28 | 20 25 22 | 5°55'06 | 4♂12 | 0♂52 | 1°53 | 1°41 | 15°55 | 4° 4 | 2°20 | 10°45 | 5°15 | 3°R42 | 2°15 | 12°10 | 29°10 | T 28 |
| W29 | 20 29 18 | 6°52'23 | 16°29 | 2°14 | 1°17 | 2°19 | 15°48 | 4° 9 | 2°18 | 10°46 | 5°15 | 3°41 | 2°11 | 12°17 | 29° 7 | W29 |
| T 30 | 20 33 15 | 7°49'42 | 28°35 | 3°33 | 0°41 | 2°56 | 15°42 | 4°13 | 2°16 | 10°48 | 5°15 | 3°38 | 2° 8 | 12°24 | 29° 5 | T 30 |
| F 31 | 20 37 11 | 8♂47'00 | 10♄33 | 4♂49 | 0♂ 7 | 3♂34 | 15♄35 | 4♂18 | 2♂14 | 10♂50 | 5♂15 | 3♂33 | 2♂ 5 | 12♂30 | 29♂ 2 | F 31 |

Delta T = 19m31s

AUGUST 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|--------|-------|--------|------|-------|-------|-------|-------|------|-------|--------|------|
| S 1 | 20 41 8 | 9♂44'20 | 22♄27 | 6♂ 4 | 29°R34 | 4♂11 | 15°R29 | 4♂23 | 2°R11 | 10♂52 | 5♂15 | 3°R24 | 2♂ 2 | 12♂37 | 28°R59 | S 1 |
| S 2 | 20 45 4 | 10°41'40 | 4♂19 | 7°16 | 29♄ 2 | 4°49 | 15♄22 | 4°27 | 2♂ 9 | 10°54 | 5°15 | 3♂14 | 1°59 | 12°44 | 28♂57 | S 2 |
| M 3 | 20 49 1 | 11°39'01 | 16°10 | 8°26 | 28°31 | 5°26 | 15°16 | 4°32 | 2° 7 | 10°56 | 5°15 | 3° 2 | 1°55 | 12°50 | 28°54 | M 3 |
| T 4 | 20 52 57 | 12°36'22 | 28° 3 | 9°33 | 28° 3 | 6° 4 | 15°10 | 4°36 | 2° 5 | 10°58 | 5°R15 | 2°49 | 1°52 | 12°57 | 28°52 | T 4 |
| W 5 | 20 56 54 | 13°33'44 | 9♂57 | 10°37 | 27°36 | 6°42 | 15° 4 | 4°40 | 2° 3 | 11° 0 | 5°15 | 2°37 | 1°49 | 13° 4 | 28°50 | W 5 |
| T 6 | 21 0 51 | 14°31'06 | 21°56 | 11°39 | 27°12 | 7°19 | 14°58 | 4°45 | 2° 1 | 11° 2 | 5°15 | 2°26 | 1°46 | 13°11 | 28°48 | T 6 |
| F 7 | 21 4 47 | 15°28'29 | 4♄ 2 | 12°38 | 26°49 | 7°57 | 14°52 | 4°49 | 1°58 | 11° 4 | 5°15 | 2°17 | 1°43 | 13°17 | 28°46 | F 7 |
| S 8 | 21 8 44 | 16°25'52 | 16°16 | 13°34 | 26°29 | 8°35 | 14°47 | 4°53 | 1°56 | 11° 6 | 5°15 | 2°11 | 1°40 | 13°24 | 28°44 | S 8 |
| S 9 | 21 12 40 | 17°23'16 | 28°43 | 14°28 | 26°11 | 9°12 | 14°41 | 4°57 | 1°54 | 11° 8 | 5°15 | 2° 8 | 1°36 | 13°31 | 28°42 | S 9 |
| M10 | 21 16 37 | 18°20'40 | 11♂27 | 15°18 | 25°55 | 9°50 | 14°36 | 5° 1 | 1°51 | 11°10 | 5°15 | 2° 6 | 1°33 | 13°37 | 28°40 | M10 |
| T 11 | 21 20 33 | 19°18'05 | 24°31 | 16° 4 | 25°42 | 10°28 | 14°31 | 5° 5 | 1°49 | 11°13 | 5°15 | 2° 6 | 1°30 | 13°44 | 28°38 | T 11 |
| W12 | 21 24 30 | 20°15'31 | 7♂59 | 16°47 | 25°31 | 11° 5 | 14°26 | 5° 8 | 1°47 | 11°15 | 5°15 | 2° 6 | 1°27 | 13°51 | 28°36 | W12 |
| T 13 | 21 28 26 | 21°12'57 | 21°54 | 17°27 | 25°23 | 11°43 | 14°21 | 5°12 | 1°44 | 11°17 | 5°15 | 2° 5 | 1°24 | 13°58 | 28°35 | T 13 |
| F 14 | 21 32 23 | 22°10'24 | 6♄16 | 18° 2 | 25°16 | 12°21 | 14°16 | 5°16 | 1°42 | 11°19 | 5°14 | 2° 2 | 1°21 | 14° 4 | 28°33 | F 14 |
| S 15 | 21 36 20 | 23° 7'52 | 21° 4 | 18°34 | 25°13 | 12°59 | 14°12 | 5°19 | 1°40 | 11°21 | 5°14 | 1°56 | 1°17 | 14°11 | 28°32 | S 15 |
| S 16 | 21 40 16 | 24° 5'20 | 6♄11 | 19° 2 | 25°D11 | 13°36 | 14° 8 | 5°22 | 1°37 | 11°23 | 5°14 | 1°48 | 1°14 | 14°18 | 28°30 | S 16 |
| M17 | 21 44 13 | 25° 2'49 | 21°29 | 19°25 | 25°12 | 14°14 | 14° 3 | 5°26 | 1°35 | 11°25 | 5°14 | 1°38 | 1°11 | 14°24 | 28°29 | M17 |
| T 18 | 21 48 9 | 26° 0'20 | 6♂47 | 19°43 | 25°15 | 14°52 | 13°59 | 5°29 | 1°33 | 11°27 | 5°13 | 1°27 | 1° 8 | 14°31 | 28°28 | T 18 |
| W19 | 21 52 6 | 26°57'51 | 21°52 | 19°56 | 25°21 | 15°30 | 13°55 | 5°32 | 1°30 | 11°30 | 5°13 | 1°17 | 1° 5 | 14°38 | 28°27 | W19 |
| T 20 | 21 56 2 | 27°55'23 | 6♂36 | 20° 5 | 25°28 | 16° 8 | 13°52 | 5°35 | 1°28 | 11°32 | 5°13 | 1° 9 | 1° 1 | 14°45 | 28°26 | T 20 |
| F 21 | 21 59 59 | 28°52'57 | 20°53 | 20°R 8 | 25°38 | 16°46 | 13°48 | 5°38 | 1°26 | 11°34 | 5°12 | 1° 3 | 0°58 | 14°51 | 28°25 | F 21 |
| S 22 | 22 3 55 | 29°50'32 | 4♂40 | 20° 6 | 25°50 | 17°24 | 13°45 | 5°41 | 1°23 | 11°36 | 5°12 | 0°59 | 0°55 | 14°58 | 28°24 | S 22 |
| S 23 | 22 7 52 | 0♂48'09 | 17°58 | 19°59 | 26° 4 | 18° 1 | 13°42 | 5°43 | 1°21 | 11°38 | 5°12 | 0°58 | 0°52 | 15° 5 | 28°23 | S 23 |
| M24 | 22 11 49 | 1°45'47 | 0♂50 | 19°46 | 26°20 | 18°39 | 13°39 | 5°46 | 1°18 | 11°40 | 5°11 | 0°57 | 0°49 | 15°11 | 28°23 | M24 |
| T 25 | 22 15 45 | 2°43'26 | 13°20 | 19°27 | 26°38 | 19°17 | 13°36 | 5°48 | 1°16 | 11°43 | 5°11 | 0°57 | 0°46 | 15°18 | 28°22 | T 25 |
| W26 | 22 19 42 | 3°41'07 | 25°34 | 19° 3 | 26°58 | 19°55 | 13°33 | 5°51 | 1°14 | 11°45 | 5°10 | 0°56 | 0°42 | 15°25 | 28°22 | W26 |
| T 27 | 22 23 38 | 4°38'50 | 7♄36 | 18°33 | 27°19 | 20°33 | 13°31 | 5°53 | 1°11 | 11°47 | 5°10 | 0°53 | 0°39 | 15°32 | 28°21 | T 27 |
| F 28 | 22 27 35 | 5°36'34 | 19°30 | 17°59 | 27°43 | 21°11 | 13°28 | 5°55 | 1° 9 | 11°49 | 5° 9 | 0°47 | 0°36 | 15°38 | 28°21 | F 28 |
| S 29 | 22 31 31 | 6°34'20 | 1♂21 | 17°19 | 28° 8 | 21°49 | 13°26 | 5°57 | 1° 6 | 11°51 | 5° 9 | 0°38 | 0°33 | 15°45 | 28°21 | S 29 |
| S 30 | 22 35 28 | 7°32'07 | 13°12 | 16°35 | 28°34 | 22°28 | 13°24 | 5°59 | 1° 4 | 11°54 | 5° 8 | 0°27 | 0°30 | 15°52 | 28°21 | S 30 |
| M31 | 22 39 24 | 8♂29'55 | 25♂ 5 | 15♂48 | 29♄ 2 | 23♂ 6 | 13♄23 | 6♂ 1 | 1♂ 2 | 11♂56 | 5♂ 8 | 0♂14 | 0♂26 | 15♂58 | 28°D21 | M31 |

Delta T = 19m32s

ASTRODIENST EPHEMERIS for the year 2589
geocentric

SEPTEMBER 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|------|
| T 1 | 22 43 21 | 9♎27'45 | 7♎ 1 | 14°R57 | 29♄32 | 23♎44 | 13°R21 | 6♂ 3 | 0°R59 | 11♎58 | 5°R 7 | 29°R59 | 0♁23 | 16♁ 5 | 28♁21 | T 1 |
| W 2 | 22 47 17 | 10°25'36 | 19° 2 | 14♎ 4 | 0♁ 3 | 24°22 | 13♄20 | 6° 5 | 0♁57 | 12° 0 | 5♄ 7 | 29♎46 | 0°20 | 16°12 | 28°21 | W 2 |
| T 3 | 22 51 14 | 11°23'29 | 1♄ 9 | 13°10 | 0°36 | 25° 0 | 13°18 | 6° 6 | 0°55 | 12° 3 | 5° 6 | 29°34 | 0°17 | 16°19 | 28°21 | T 3 |
| F 4 | 22 55 11 | 12°21'23 | 13°24 | 12°16 | 1°10 | 25°38 | 13°17 | 6° 8 | 0°52 | 12° 5 | 5° 6 | 29°24 | 0°14 | 16°25 | 28°21 | F 4 |
| S 5 | 22 59 7 | 13°19'19 | 25°48 | 11°23 | 1°45 | 26°16 | 13°17 | 6° 9 | 0°50 | 12° 7 | 5° 5 | 29°18 | 0°11 | 16°32 | 28°22 | S 5 |
| S 6 | 23 3 4 | 14°17'15 | 8♎22 | 10°32 | 2°21 | 26°55 | 13°16 | 6°10 | 0°48 | 12° 9 | 5° 4 | 29°14 | 0° 7 | 16°39 | 28°22 | S 6 |
| M 7 | 23 7 0 | 15°15'13 | 21°11 | 9°44 | 2°59 | 27°33 | 13°16 | 6°12 | 0°45 | 12°11 | 5° 4 | 29°12 | 0° 4 | 16°45 | 28°23 | M 7 |
| T 8 | 23 10 57 | 16°13'13 | 4♁16 | 9° 1 | 3°37 | 28°11 | 13°15 | 6°13 | 0°43 | 12°14 | 5° 3 | 29°D12 | 0° 1 | 16°52 | 28°24 | T 8 |
| W 9 | 23 14 53 | 17°11'13 | 17°40 | 8°22 | 4°17 | 28°49 | 13°D15 | 6°14 | 0°41 | 12°16 | 5° 2 | 29°R12 | 29♎58 | 16°59 | 28°25 | W 9 |
| T 10 | 23 18 50 | 18° 9'15 | 1♄27 | 7°50 | 4°58 | 29°28 | 13°16 | 6°14 | 0°39 | 12°18 | 5° 2 | 29°11 | 29°55 | 17° 6 | 28°26 | T 10 |
| F 11 | 23 22 46 | 19° 7'19 | 15°37 | 7°25 | 5°40 | 0♁ 6 | 13°16 | 6°15 | 0°36 | 12°20 | 5° 1 | 29° 9 | 29°52 | 17°12 | 28°27 | F 11 |
| S 12 | 23 26 43 | 20° 5'23 | 0♁10 | 7° 8 | 6°23 | 0°44 | 13°16 | 6°16 | 0°34 | 12°23 | 5° 0 | 29° 4 | 29°48 | 17°19 | 28°28 | S 12 |
| S 13 | 23 30 40 | 21° 3'29 | 15° 1 | 6°59 | 7° 7 | 1°23 | 13°17 | 6°16 | 0°32 | 12°25 | 4°59 | 28°57 | 29°45 | 17°26 | 28°29 | S 13 |
| M14 | 23 34 36 | 22° 1'37 | 0♁ 4 | 6°D58 | 7°52 | 2° 1 | 13°18 | 6°17 | 0°30 | 12°27 | 4°59 | 28°48 | 29°42 | 17°33 | 28°30 | M14 |
| T 15 | 23 38 33 | 22°59'45 | 15°10 | 7° 6 | 8°38 | 2°40 | 13°19 | 6°17 | 0°28 | 12°29 | 4°58 | 28°38 | 29°39 | 17°39 | 28°31 | T 15 |
| W16 | 23 42 29 | 23°57'56 | 0♁ 9 | 7°23 | 9°25 | 3°18 | 13°21 | 6°17 | 0°25 | 12°31 | 4°57 | 28°29 | 29°36 | 17°46 | 28°33 | W16 |
| T 17 | 23 46 26 | 24°56'08 | 14°51 | 7°49 | 10°12 | 3°57 | 13°22 | 6°R17 | 0°23 | 12°33 | 4°56 | 28°21 | 29°32 | 17°53 | 28°34 | T 17 |
| F 18 | 23 50 22 | 25°54'22 | 29° 9 | 8°23 | 11° 1 | 4°35 | 13°24 | 6°17 | 0°21 | 12°36 | 4°55 | 28°15 | 29°29 | 17°59 | 28°36 | F 18 |
| S 19 | 23 54 19 | 26°52'38 | 13♄ 0 | 9° 6 | 11°50 | 5°14 | 13°26 | 6°17 | 0°19 | 12°38 | 4°54 | 28°12 | 29°26 | 18° 6 | 28°38 | S 19 |
| S 20 | 23 58 15 | 27°50'57 | 26°22 | 9°56 | 12°40 | 5°52 | 13°28 | 6°17 | 0°17 | 12°40 | 4°54 | 28°D11 | 29°23 | 18°13 | 28°40 | S 20 |
| M21 | 0 2 12 | 28°49'17 | 9♂19 | 10°55 | 13°31 | 6°31 | 13°30 | 6°17 | 0°15 | 12°42 | 4°53 | 28°12 | 29°20 | 18°20 | 28°41 | M21 |
| T 22 | 0 6 9 | 29°47'39 | 21°52 | 12° 0 | 14°22 | 7° 9 | 13°32 | 6°16 | 0°13 | 12°44 | 4°52 | 28°12 | 29°17 | 18°26 | 28°43 | T 22 |
| W23 | 0 10 5 | 0♁46'03 | 4♄ 8 | 13°12 | 15°14 | 7°48 | 13°35 | 6°16 | 0°11 | 12°46 | 4°51 | 28°R13 | 29°13 | 18°33 | 28°46 | W23 |
| T 24 | 0 14 2 | 1°44'30 | 16°10 | 14°30 | 16° 7 | 8°27 | 13°38 | 6°15 | 0° 9 | 12°49 | 4°50 | 28°11 | 29°10 | 18°40 | 28°48 | T 24 |
| F 25 | 0 17 58 | 2°42'58 | 28° 5 | 15°54 | 17° 0 | 9° 5 | 13°41 | 6°14 | 0° 7 | 12°51 | 4°49 | 28° 8 | 29° 7 | 18°46 | 28°50 | F 25 |
| S 26 | 0 21 55 | 3°41'29 | 9♁56 | 17°23 | 17°54 | 9°44 | 13°44 | 6°13 | 0° 5 | 12°53 | 4°48 | 28° 2 | 29° 4 | 18°53 | 28°52 | S 26 |
| S 27 | 0 25 51 | 4°40'02 | 21°48 | 18°55 | 18°49 | 10°23 | 13°47 | 6°12 | 0° 4 | 12°55 | 4°47 | 27°55 | 29° 1 | 19° 0 | 28°55 | S 27 |
| M28 | 0 29 48 | 5°38'36 | 3♎44 | 20°32 | 19°44 | 11° 2 | 13°51 | 6°11 | 0° 2 | 12°57 | 4°46 | 27°46 | 28°58 | 19° 7 | 28°57 | M28 |
| T 29 | 0 33 44 | 6°37'13 | 15°46 | 22°12 | 20°40 | 11°40 | 13°54 | 6°10 | 0° 0 | 12°59 | 4°45 | 27°36 | 28°54 | 19°13 | 29° 0 | T 29 |
| W30 | 0 37 41 | 7♁35'51 | 27♎55 | 23♎54 | 21♁36 | 12♁19 | 13♄58 | 6♂ 9 | 29♁58 | 13♎ 1 | 4♄44 | 27♎26 | 28♎51 | 19♁20 | 29♁ 2 | W30 |

Delta T = 19m32s

OCTOBER 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|------|
| T 1 | 0 41 37 | 8♁34'32 | 10♁15 | 25♎38 | 22♁33 | 12♁58 | 14♄ 2 | 6°R 7 | 29°R57 | 13♎ 3 | 4°R43 | 27°R18 | 28♎48 | 19♁27 | 29♁ 5 | T 1 |
| F 2 | 0 45 34 | 9°33'15 | 22°44 | 27°24 | 23°30 | 13°37 | 14° 6 | 6♂ 6 | 29♁55 | 13° 5 | 4♄42 | 27♎11 | 28°45 | 19°33 | 29° 8 | F 2 |
| S 3 | 0 49 31 | 10°31'59 | 5♎24 | 29°12 | 24°28 | 14°16 | 14°11 | 6° 4 | 29°53 | 13° 7 | 4°41 | 27° 7 | 28°42 | 19°40 | 29°11 | S 3 |
| S 4 | 0 53 27 | 11°30'45 | 18°14 | 1♄ 0 | 25°26 | 14°55 | 14°15 | 6° 3 | 29°52 | 13° 9 | 4°40 | 27° 4 | 28°38 | 19°47 | 29°14 | S 4 |
| M 5 | 0 57 24 | 12°29'34 | 1♁17 | 2°49 | 26°25 | 15°34 | 14°20 | 6° 1 | 29°50 | 13°11 | 4°39 | 27°D 4 | 28°35 | 19°54 | 29°17 | M 5 |
| T 6 | 1 1 20 | 13°28'24 | 14°33 | 4°38 | 27°24 | 16°13 | 14°25 | 5°59 | 29°49 | 13°13 | 4°38 | 27° 5 | 28°32 | 20° 0 | 29°20 | T 6 |
| W 7 | 1 5 17 | 14°27'15 | 28° 4 | 6°28 | 28°23 | 16°52 | 14°30 | 5°57 | 29°47 | 13°15 | 4°37 | 27° 6 | 28°29 | 20° 7 | 29°24 | W 7 |
| T 8 | 1 9 13 | 15°26'09 | 11♄50 | 8°17 | 29°23 | 17°31 | 14°35 | 5°55 | 29°46 | 13°17 | 4°36 | 27°R 7 | 28°26 | 20°14 | 29°27 | T 8 |
| F 9 | 1 13 10 | 16°25'04 | 25°53 | 10° 6 | 0♎23 | 18°10 | 14°41 | 5°52 | 29°44 | 13°19 | 4°35 | 27° 7 | 28°23 | 20°21 | 29°30 | F 9 |
| S 10 | 1 17 6 | 17°24'00 | 10♁10 | 11°55 | 1°24 | 18°49 | 14°46 | 5°50 | 29°43 | 13°21 | 4°34 | 27° 5 | 28°19 | 20°27 | 29°34 | S 10 |
| S 11 | 1 21 3 | 18°22'58 | 24°41 | 13°43 | 2°25 | 19°28 | 14°52 | 5°48 | 29°41 | 13°23 | 4°33 | 27° 1 | 28°16 | 20°34 | 29°37 | S 11 |
| M12 | 1 25 0 | 19°21'58 | 9♁20 | 15°31 | 3°27 | 20° 7 | 14°58 | 5°45 | 29°40 | 13°25 | 4°32 | 26°56 | 28°13 | 20°41 | 29°41 | M12 |
| T 13 | 1 28 56 | 20°21'00 | 24° 2 | 17°18 | 4°29 | 20°47 | 15° 4 | 5°43 | 29°39 | 13°27 | 4°31 | 26°51 | 28°10 | 20°47 | 29°45 | T 13 |
| W14 | 1 32 53 | 21°20'04 | 8♁39 | 19° 5 | 5°31 | 21°26 | 15°10 | 5°40 | 29°38 | 13°29 | 4°29 | 26°45 | 28° 7 | 20°54 | 29°49 | W14 |
| T 15 | 1 36 49 | 22°19'09 | 23° 4 | 20°51 | 6°34 | 22° 5 | 15°16 | 5°37 | 29°37 | 13°30 | 4°28 | 26°41 | 28° 3 | 21° 1 | 29°52 | T 15 |
| F 16 | 1 40 46 | 23°18'17 | 7♄11 | 22°36 | 7°36 | 22°44 | 15°23 | 5°34 | 29°35 | 13°32 | 4°27 | 26°38 | 28° 0 | 21° 8 | 29°56 | F 16 |
| S 17 | 1 44 42 | 24°17'27 | 20°56 | 24°20 | 8°40 | 23°24 | 15°30 | 5°31 | 29°34 | 13°34 | 4°26 | 26°D36 | 27°57 | 21°14 | 0♄ 0 | S 17 |
| S 18 | 1 48 39 | 25°16'39 | 4♂17 | 26° 4 | 9°43 | 24° 3 | 15°36 | 5°28 | 29°33 | 13°36 | 4°25 | 26°37 | 27°54 | 21°21 | 0° 4 | S 18 |
| M19 | 1 52 35 | 26°15'53 | 17°15 | 27°47 | 10°47 | 24°42 | 15°43 | 5°25 | 29°32 | 13°38 | 4°24 | 26°38 | 27°51 | 21°28 | 0° 9 | M19 |
| T 20 | 1 56 32 | 27°15'09 | 29°52 | 29°29 | 11°51 | 25°22 | 15°51 | 5°22 | 29°31 | 13°39 | 4°23 | 26°39 | 27°48 | 21°34 | 0°13 | T 20 |
| W21 | 2 0 29 | 28°14'28 | 12♄11 | 1♎11 | 12°56 | 26° 1 | 15°58 | 5°19 | 29°31 | 13°41 | 4°22 | 26°41 | 27°44 | 21°41 | 0°17 | W21 |
| T 22 | 2 4 25 | 29°13'49 | 24°16 | 2°51 | 14° 1 | 26°41 | 16° 5 | 5°15 | 29°30 | 13°43 | 4°20 | 26°R42 | 27°41 | 21°48 | 0°22 | T 22 |
| F 23 | 2 8 22 | 0♎13'12 | 6♁12 | 4°31 | 15° 6 | 27°20 | 16°13 | 5°12 | 29°29 | 13°44 | 4°19 | 26°42 | 27°38 | 21°55 | 0°26 | F 23 |
| S 24 | 2 12 18 | 1°12'37 | 18° 5 | 6°11 | 16°11 | 28° 0 | 16°20 | 5° 8 | 29°28 | 13°46 | 4°18 | 26°41 | 27°35 | 22° 1 | 0°30 | S 24 |
| S 25 | 2 16 15 | 2°12'05 | 29°58 | 7°49 | 17°17 | 28°39 | 16°28 | 5° 5 | 29°27 | 13°48 | 4°17 | 26°38 | 27°32 | 22° 8 | 0°35 | S 25 |
| M26 | 2 20 11 | 3°11'35 | 11♎56 | 9°27 | 18°22 | 29°19 | 16°36 | 5° 1 | 29°27 | 13°49 | 4°16 | 26°35 | 27°29 | 22°15 | 0°40 | M26 |
| T 27 | 2 24 8 | 4°11'07 | 24° 3 | 11° 5 | 19°29 | 29°59 | 16°44 | 4°57 | 29°26 | 13°51 | 4°15 | 26°31 | 27°25 | 22°22 | 0°44 | T 27 |
| W28 | 2 28 4 | 5°10'41 | 6♁20 | 12°41 | 20°35 | 0♎38 | 16°53 | 4°53 | 29°26 | 13°52 | 4°14 | 26°28 | 27°22 | 22°28 | 0°49 | W28 |
| T 29 | 2 32 1 | 6°10'18 | 18°51 | 14°17 | 21°41 | 1°18 | 17° 1 | 4°49 | 29°25 | 13°54 | 4°13 | 26°25 | 27°19 | 22°35 | 0°54 | T 29 |
| F 30 | 2 35 58 | 7° 9'56 | 1♎36 | 15°53 | 22°48 | 1°58 | 17°10 | 4°45 | 29°25 | 13°55 | 4°11 | 26°22 | 27°16 | 22°42 | 0°59 | F 30 |
| S 31 | 2 39 54 | 8♎ 9'37 | 14♎36 | 17♎28 | 23♎55 | 2♎38 | 17♄18 | 4♂41 | 29♁24 | 13♎57 | 4♄10 | 26♎21 | 27♎13 | 22♁48 | 1♄ 4 | S 31 |

Delta T = 19m32s

ASTRODIENST EPHEMERIS for the year 2589
geocentric

NOVEMBER 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|------|------|-----|
| S 1 | 2 43 51 | 9♐ 9'19 | 27♐50 | 19♐ 2 | 25♐ 3 | 3♐17 | 17♐27 | 4°R37 | 29°R24 | 13♐58 | 4°R 9 | 26°D20 | 27♐ 9 | 22♐55 | 1♐ 9 | S 1 | |
| M 2 | 2 47 47 | 10° 9'04 | 11♐16 | 20°36 | 26°10 | 3°57 | 17°36 | 4♐33 | 29°R23 | 14° 0 | 4♐ 8 | 26♐21 | 27° 6 | 23° 2 | 1°14 | M 2 | |
| T 3 | 2 51 44 | 11° 8'50 | 24°55 | 22° 9 | 27°18 | 4°37 | 17°45 | 4°29 | 29°23 | 14° 1 | 4° 7 | 26°22 | 27° 3 | 23° 9 | 1°19 | T 3 | |
| W 4 | 2 55 40 | 12° 8'38 | 8♐44 | 23°41 | 28°25 | 5°17 | 17°54 | 4°25 | 29°23 | 14° 2 | 4° 6 | 26°23 | 27° 0 | 23°15 | 1°24 | W 4 | |
| T 5 | 2 59 37 | 13° 8'28 | 22°42 | 25°14 | 29°34 | 5°57 | 18° 3 | 4°20 | 29°23 | 14° 4 | 4° 5 | 26°24 | 26°57 | 23°22 | 1°29 | T 5 | |
| F 6 | 3 3 33 | 14° 8'19 | 6♐47 | 26°45 | 0♐42 | 6°37 | 18°13 | 4°16 | 29°23 | 14° 5 | 4° 3 | 26°25 | 26°54 | 23°29 | 1°35 | F 6 | |
| S 7 | 3 7 30 | 15° 8'12 | 20°59 | 28°16 | 1°50 | 7°17 | 18°22 | 4°11 | 29°23 | 14° 6 | 4° 2 | 26°R25 | 26°50 | 23°35 | 1°40 | S 7 | |
| S 8 | 3 11 27 | 16° 8'06 | 5♐14 | 29°47 | 2°59 | 7°57 | 18°32 | 4° 7 | 29°D23 | 14° 8 | 4° 1 | 26°24 | 26°47 | 23°42 | 1°45 | S 8 | |
| M 9 | 3 15 23 | 17° 8'02 | 19°29 | 1♐17 | 4° 8 | 8°37 | 18°42 | 4° 2 | 29°23 | 14° 9 | 4° 0 | 26°23 | 26°44 | 23°49 | 1°51 | M 9 | |
| T 10 | 3 19 20 | 18° 7'59 | 3♐43 | 2°46 | 5°17 | 9°17 | 18°52 | 3°58 | 29°23 | 14°10 | 3°59 | 26°22 | 26°41 | 23°56 | 1°56 | T 10 | |
| W11 | 3 23 16 | 19° 7'59 | 17°50 | 4°16 | 6°26 | 9°57 | 19° 1 | 3°53 | 29°23 | 14°11 | 3°58 | 26°22 | 26°38 | 24° 2 | 2° 2 | W11 | |
| T 12 | 3 27 13 | 20° 7'59 | 1♐48 | 5°44 | 7°35 | 10°38 | 19°12 | 3°49 | 29°23 | 14°12 | 3°57 | 26°21 | 26°35 | 24° 9 | 2° 8 | T 12 | |
| F 13 | 3 31 9 | 21° 8'02 | 15°33 | 7°12 | 8°44 | 11°18 | 19°22 | 3°44 | 29°23 | 14°13 | 3°56 | 26°20 | 26°31 | 24°16 | 2°13 | F 13 | |
| S 14 | 3 35 6 | 22° 8'07 | 29° 1 | 8°40 | 9°54 | 11°58 | 19°32 | 3°39 | 29°24 | 14°15 | 3°55 | 26°D20 | 26°28 | 24°23 | 2°19 | S 14 | |
| S 15 | 3 39 2 | 23° 8'13 | 12♐12 | 10° 6 | 11° 4 | 12°38 | 19°43 | 3°34 | 29°24 | 14°16 | 3°54 | 26°20 | 26°25 | 24°29 | 2°25 | S 15 | |
| M16 | 3 42 59 | 24° 8'21 | 25° 4 | 11°33 | 12°14 | 13°19 | 19°53 | 3°30 | 29°24 | 14°17 | 3°53 | 26°21 | 26°22 | 24°36 | 2°30 | M16 | |
| T 17 | 3 46 56 | 25° 8'32 | 7♐39 | 12°58 | 13°24 | 13°59 | 20° 4 | 3°25 | 29°25 | 14°18 | 3°51 | 26°21 | 26°19 | 24°43 | 2°36 | T 17 | |
| W18 | 3 50 52 | 26° 8'44 | 19°58 | 14°23 | 14°34 | 14°39 | 20°14 | 3°20 | 29°25 | 14°19 | 3°50 | 26°R21 | 26°15 | 24°49 | 2°42 | W18 | |
| T 19 | 3 54 49 | 27° 8'58 | 2♐ 5 | 15°48 | 15°44 | 15°20 | 20°25 | 3°15 | 29°26 | 14°20 | 3°49 | 26°21 | 26°12 | 24°56 | 2°48 | T 19 | |
| F 20 | 3 58 45 | 28° 9'14 | 14° 3 | 17°11 | 16°55 | 16° 0 | 20°36 | 3°10 | 29°26 | 14°20 | 3°48 | 26°21 | 26° 9 | 25° 3 | 2°54 | F 20 | |
| S 21 | 4 2 42 | 29° 9'32 | 25°56 | 18°34 | 18° 6 | 16°41 | 20°47 | 3° 6 | 29°27 | 14°21 | 3°47 | 26°D21 | 26° 6 | 25°10 | 3° 0 | S 21 | |
| S 22 | 4 6 38 | 0♐ 9'51 | 7♐49 | 19°56 | 19°16 | 17°21 | 20°58 | 3° 1 | 29°28 | 14°22 | 3°46 | 26°21 | 26° 3 | 25°16 | 3° 6 | S 22 | |
| M23 | 4 10 35 | 1°10'13 | 19°47 | 21°16 | 20°27 | 18° 2 | 21° 9 | 2°56 | 29°28 | 14°23 | 3°45 | 26°21 | 26° 0 | 25°23 | 3°12 | M23 | |
| T 24 | 4 14 31 | 2°10'37 | 1♐54 | 22°36 | 21°38 | 18°42 | 21°21 | 2°51 | 29°29 | 14°24 | 3°44 | 26°22 | 25°56 | 25°30 | 3°18 | T 24 | |
| W25 | 4 18 28 | 3°11'02 | 14°15 | 23°54 | 22°49 | 19°23 | 21°32 | 2°46 | 29°30 | 14°24 | 3°43 | 26°22 | 25°53 | 25°37 | 3°24 | W25 | |
| T 26 | 4 22 25 | 4°11'30 | 26°52 | 25°11 | 24° 1 | 20° 4 | 21°44 | 2°41 | 29°31 | 14°25 | 3°42 | 26°23 | 25°50 | 25°43 | 3°31 | T 26 | |
| F 27 | 4 26 21 | 5°11'59 | 9♐49 | 26°26 | 25°12 | 20°45 | 21°55 | 2°36 | 29°32 | 14°26 | 3°41 | 26°24 | 25°47 | 25°50 | 3°37 | F 27 | |
| S 28 | 4 30 18 | 6°12'29 | 23° 5 | 27°39 | 26°24 | 21°25 | 22° 7 | 2°31 | 29°33 | 14°26 | 3°40 | 26°R24 | 25°44 | 25°57 | 3°43 | S 28 | |
| S 29 | 4 34 14 | 7°13'02 | 6♐41 | 28°50 | 27°35 | 22° 6 | 22°19 | 2°27 | 29°34 | 14°27 | 3°40 | 26°24 | 25°40 | 26° 3 | 3°49 | S 29 | |
| M30 | 4 38 11 | 8♐13'36 | 20♐35 | 29♐59 | 28♐47 | 22♐47 | 22♐30 | 2♐22 | 29♐35 | 14♐28 | 3♐39 | 26♐23 | 25♐37 | 26♐10 | 3♐56 | M30 | |

Delta T = 19m33s

DECEMBER 2589

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|------|------|-----|
| T 1 | 4 42 7 | 9♐14'11 | 4♐43 | 1♐ 5 | 29♐59 | 23♐28 | 22♐42 | 2°R17 | 29°R36 | 14♐28 | 3°R38 | 26°R22 | 25♐34 | 26♐17 | 4♐ 2 | T 1 | |
| W 2 | 4 46 4 | 10°14'48 | 19° 0 | 2° 8 | 1♐11 | 24° 9 | 22°54 | 2♐12 | 29°37 | 14°29 | 3♐37 | 26♐20 | 25°31 | 26°24 | 4° 8 | W 2 | |
| T 3 | 4 50 0 | 11°15'26 | 3°R22 | 3° 8 | 2°23 | 24°50 | 23° 6 | 2° 7 | 29°39 | 14°29 | 3°36 | 26°18 | 25°28 | 26°30 | 4°15 | T 3 | |
| F 4 | 4 53 57 | 12°16'05 | 17°44 | 4° 3 | 3°35 | 25°31 | 23°18 | 2° 2 | 29°40 | 14°30 | 3°35 | 26°17 | 25°25 | 26°37 | 4°21 | F 4 | |
| S 5 | 4 57 54 | 13°16'45 | 2♐ 3 | 4°54 | 4°47 | 26°12 | 23°31 | 1°58 | 29°41 | 14°30 | 3°34 | 26°15 | 25°21 | 26°44 | 4°28 | S 5 | |
| S 6 | 5 1 50 | 14°17'26 | 16°14 | 5°40 | 5°59 | 26°53 | 23°43 | 1°53 | 29°43 | 14°30 | 3°33 | 26°D15 | 25°18 | 26°50 | 4°34 | S 6 | |
| M 7 | 5 5 47 | 15°18'08 | 0♐16 | 6°20 | 7°11 | 27°34 | 23°55 | 1°48 | 29°44 | 14°31 | 3°33 | 26°16 | 25°15 | 26°57 | 4°41 | M 7 | |
| T 8 | 5 9 43 | 16°18'51 | 14° 8 | 6°53 | 8°24 | 28°15 | 24° 8 | 1°44 | 29°46 | 14°31 | 3°32 | 26°17 | 25°12 | 27° 4 | 4°47 | T 8 | |
| W 9 | 5 13 40 | 17°19'35 | 27°49 | 7°19 | 9°36 | 28°56 | 24°20 | 1°39 | 29°47 | 14°31 | 3°31 | 26°18 | 25° 9 | 27°11 | 4°54 | W 9 | |
| T 10 | 5 17 36 | 18°20'20 | 11♐18 | 7°37 | 10°49 | 29°37 | 24°33 | 1°34 | 29°49 | 14°31 | 3°30 | 26°20 | 25° 6 | 27°17 | 5° 0 | T 10 | |
| F 11 | 5 21 33 | 19°21'06 | 24°36 | 7°R46 | 12° 2 | 0♐18 | 24°45 | 1°30 | 29°50 | 14°32 | 3°30 | 26°R20 | 25° 2 | 27°24 | 5° 7 | F 11 | |
| S 12 | 5 25 29 | 20°21'53 | 7♐41 | 7°45 | 13°14 | 1° 0 | 24°58 | 1°25 | 29°52 | 14°32 | 3°29 | 26°20 | 24°59 | 27°31 | 5°13 | S 12 | |
| S 13 | 5 29 26 | 21°22'41 | 20°33 | 7°34 | 14°27 | 1°41 | 25°11 | 1°21 | 29°54 | 14°32 | 3°28 | 26°18 | 24°56 | 27°38 | 5°20 | S 13 | |
| M14 | 5 33 23 | 22°23'31 | 3♐13 | 7°12 | 15°40 | 2°22 | 25°24 | 1°17 | 29°56 | 14°32 | 3°27 | 26°15 | 24°53 | 27°44 | 5°27 | M14 | |
| T 15 | 5 37 19 | 23°24'21 | 15°39 | 6°38 | 16°53 | 3° 4 | 25°36 | 1°12 | 29°57 | 14°32 | 3°27 | 26°11 | 24°50 | 27°51 | 5°33 | T 15 | |
| W16 | 5 41 16 | 24°25'13 | 27°54 | 5°53 | 18° 6 | 3°45 | 25°49 | 1° 8 | 29°59 | 14°R32 | 3°26 | 26° 6 | 24°47 | 27°58 | 5°40 | W16 | |
| T 17 | 5 45 12 | 25°26'06 | 9♐59 | 4°58 | 19°19 | 4°27 | 26° 2 | 1° 4 | 0♐ 1 | 14°32 | 3°25 | 26° 0 | 24°43 | 28° 4 | 5°46 | T 17 | |
| F 18 | 5 49 9 | 26°27'00 | 21°56 | 3°53 | 20°32 | 5° 8 | 26°15 | 1° 0 | 0° 3 | 14°32 | 3°25 | 25°56 | 24°40 | 28°11 | 5°53 | F 18 | |
| S 19 | 5 53 5 | 27°27'55 | 3♐49 | 2°40 | 21°45 | 5°50 | 26°28 | 0°55 | 0° 5 | 14°32 | 3°24 | 25°52 | 24°37 | 28°18 | 6° 0 | S 19 | |
| S 20 | 5 57 2 | 28°28'51 | 15°41 | 1°21 | 22°59 | 6°31 | 26°42 | 0°51 | 0° 7 | 14°32 | 3°24 | 25°49 | 24°34 | 28°25 | 6° 6 | S 20 | |
| M21 | 6 0 58 | 29°29'48 | 27°36 | 29♐58 | 24°12 | 7°13 | 26°55 | 0°47 | 0° 9 | 14°32 | 3°23 | 25°D48 | 24°31 | 28°31 | 6°13 | M21 | |
| T 22 | 6 4 55 | 0♐30'46 | 9♐40 | 28°35 | 25°25 | 7°54 | 27° 8 | 0°44 | 0°11 | 14°32 | 3°22 | 25°49 | 24°27 | 28°38 | 6°20 | T 22 | |
| W23 | 6 8 52 | 1°31'46 | 21°58 | 27°14 | 21°58 | 8°36 | 27°21 | 0°40 | 0°13 | 14°31 | 3°22 | 25°50 | 24°24 | 28°45 | 6°27 | W23 | |
| T 24 | 6 12 48 | 2°32'46 | 4♐34 | 25°58 | 27°52 | 9°18 | 27°35 | 0°36 | 0°16 | 14°31 | 3°21 | 25°52 | 24°21 | 28°52 | 6°33 | T 24 | |
| F 25 | 6 16 45 | 3°33'48 | 17°33 | 24°50 | 29° 6 | 10° 0 | 27°48 | 0°32 | 0°18 | 14°31 | 3°21 | 25°53 | 24°18 | 28°58 | 6°40 | F 25 | |
| S 26 | 6 20 41 | 4°34'50 | 0♐57 | 23°50 | 0♐20 | 10°41 | 28° 2 | 0°29 | 0°20 | 14°30 | 3°20 | 25°R53 | 24°15 | 29° 5 | 6°47 | S 26 | |
| S 27 | 6 24 38 | 5°35'54 | 14°46 | 23° 0 | 1°33 | 11°23 | 28°15 | 0°25 | 0°22 | 14°30 | 3°20 | 25°52 | 24°12 | 29°12 | 6°53 | S 27 | |
| M28 | 6 28 34 | 6°36'58 | 29° 0 | 22°21 | 2°47 | 12° 5 | 28°29 | 0°22 | 0°25 | 14°30 | 3°20 | 25°48 | 24° 8 | 29°18 | 7° 0 | M28 | |
| T 29 | 6 32 31 | 7°38'03 | 13♐33 | 21°53 | 4° 1 | 12°47 | 28°42 | 0°18 | 0°27 | 14°29 | 3°19 | 25°43 | 24° 5 | 29°25 | 7° 7 | T 29 | |
| W30 | 6 36 28 | 8°39'08 | 28°20 | 21°35 | 5°15 | 13°29 | 28°56 | 0°15 | 0°30 | 14°29 | 3°19 | 25°36 | 24° 2 | 29°32 | 7°14 | W30 | |
| T 31 | 6 40 24 | 9♐40'14 | 13♐11 | 21°D28 | 6♐28 | 14♐11 | 29♐ 9 | 0♐12 | 0♐32 | 14♐28 | 3♐18 | 25♐29 | 23♐59 | 29♐39 | 7♐20 | T 31 | |

Delta T = 19m33s

ASTRODIENST EPHEMERIS for the year 2590
geocentric

JANUARY 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|------|--------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| F 1 | 6 44 21 | 10♌41'20 | 28♋0 | 21♌31 | 7♌42 | 14♌53 | 29♌23 | 0°R 9 | 0♌34 | 14°R28 | 3°R18 | 25°R22 | 23♌56 | 29♌45 | 7♌27 | F 1 | | | | | | | | |
| S 2 | 6 48 17 | 11°42'26 | 12♋37 | 21°44 | 8°56 | 15°35 | 29°37 | 0♌6 | 0°37 | 14♌27 | 3°18 | 25°17 | 23°53 | 29°52 | 7°34 | S 2 | | | | | | | | |
| S 3 | 6 52 14 | 12°43'32 | 26°59 | 22° 4 | 10°10 | 16°17 | 29°50 | 0° 3 | 0°40 | 14°27 | 3°17 | 25°14 | 23°49 | 29°59 | 7°40 | S 3 | | | | | | | | |
| M 4 | 6 56 10 | 13°44'39 | 11♌1 | 22°32 | 11°24 | 16°59 | 0♌4 | 29♌59 | 0°42 | 14°26 | 3°17 | 25°D13 | 23°46 | 0♌5 | 7°47 | M 4 | | | | | | | | |
| T 5 | 7 0 7 | 14°45'45 | 24°45 | 23° 7 | 12°38 | 17°41 | 0°18 | 29°57 | 0°45 | 14°26 | 3°17 | 25°13 | 23°43 | 0°12 | 7°54 | T 5 | | | | | | | | |
| W 6 | 7 4 3 | 15°46'51 | 8♌11 | 23°47 | 13°52 | 18°24 | 0°32 | 29°54 | 0°47 | 14°25 | 3°17 | 25°14 | 23°40 | 0°19 | 8° 0 | W 6 | | | | | | | | |
| T 7 | 7 8 0 | 16°47'58 | 21°20 | 24°34 | 15° 6 | 19° 6 | 0°46 | 29°52 | 0°50 | 14°24 | 3°16 | 25°R15 | 23°37 | 0°26 | 8° 7 | T 7 | | | | | | | | |
| F 8 | 7 11 57 | 17°49'04 | 4♌16 | 25°25 | 16°20 | 19°48 | 0°59 | 29°49 | 0°53 | 14°23 | 3°16 | 25°15 | 23°33 | 0°32 | 8°14 | F 8 | | | | | | | | |
| S 9 | 7 15 53 | 18°50'11 | 16°59 | 26°20 | 17°35 | 20°30 | 1°13 | 29°47 | 0°56 | 14°23 | 3°16 | 25°12 | 23°30 | 0°39 | 8°20 | S 9 | | | | | | | | |
| S 10 | 7 19 50 | 19°51'17 | 29°31 | 27°19 | 18°49 | 21°13 | 1°27 | 29°45 | 0°58 | 14°22 | 3°16 | 25° 7 | 23°27 | 0°46 | 8°27 | S 10 | | | | | | | | |
| M11 | 7 23 46 | 20°52'24 | 11♌55 | 28°21 | 20° 3 | 21°55 | 1°41 | 29°43 | 1° 1 | 14°21 | 3°16 | 25° 0 | 23°24 | 0°53 | 8°34 | M11 | | | | | | | | |
| T 12 | 7 27 43 | 21°53'30 | 24° 9 | 29°26 | 21°17 | 22°38 | 1°55 | 29°41 | 1° 4 | 14°20 | 3°16 | 24°50 | 23°21 | 0°59 | 8°40 | T 12 | | | | | | | | |
| W13 | 7 31 39 | 22°54'37 | 6♌17 | 0♌34 | 22°31 | 23°20 | 2° 9 | 29°39 | 1° 7 | 14°19 | 3°15 | 24°38 | 23°18 | 1° 6 | 8°47 | W13 | | | | | | | | |
| T 14 | 7 35 36 | 23°55'44 | 18°17 | 1°45 | 23°46 | 24° 3 | 2°23 | 29°37 | 1°10 | 14°18 | 3°15 | 24°26 | 23°14 | 1°13 | 8°53 | T 14 | | | | | | | | |
| F 15 | 7 39 32 | 24°56'50 | 0♌12 | 2°57 | 25° 0 | 24°45 | 2°37 | 29°35 | 1°13 | 14°17 | 3°15 | 24°15 | 23°11 | 1°19 | 9° 0 | F 15 | | | | | | | | |
| S 16 | 7 43 29 | 25°57'57 | 12° 3 | 4°12 | 26°14 | 25°28 | 2°51 | 29°33 | 1°16 | 14°16 | 3°D15 | 24° 5 | 23° 8 | 1°26 | 9° 6 | S 16 | | | | | | | | |
| S 17 | 7 47 26 | 26°59'04 | 23°54 | 5°28 | 27°29 | 26°10 | 3° 5 | 29°32 | 1°19 | 14°15 | 3°15 | 23°57 | 23° 5 | 1°33 | 9°13 | S 17 | | | | | | | | |
| M18 | 7 51 22 | 28° 0'11 | 5♌47 | 6°45 | 28°43 | 26°53 | 3°19 | 29°30 | 1°22 | 14°14 | 3°15 | 23°52 | 23° 2 | 1°40 | 9°19 | M18 | | | | | | | | |
| T 19 | 7 55 19 | 29° 1'17 | 17°48 | 8° 4 | 29°57 | 27°36 | 3°33 | 29°29 | 1°25 | 14°13 | 3°15 | 23°49 | 22°58 | 1°46 | 9°26 | T 19 | | | | | | | | |
| W20 | 7 59 15 | 0♌2'24 | 0♌2 | 9°24 | 1♌12 | 28°18 | 3°47 | 29°28 | 1°28 | 14°12 | 3°15 | 23°D48 | 22°55 | 1°53 | 9°32 | W20 | | | | | | | | |
| T 21 | 8 3 12 | 1° 3'32 | 10°32 | 10°45 | 2°26 | 29° 1 | 4° 1 | 29°27 | 1°31 | 14°11 | 3°16 | 23°49 | 22°52 | 2° 0 | 9°38 | T 21 | | | | | | | | |
| F 22 | 8 7 8 | 2° 4'39 | 25°25 | 12° 8 | 3°41 | 29°44 | 4°16 | 29°26 | 1°34 | 14°10 | 3°16 | 23°R49 | 22°49 | 2° 6 | 9°45 | F 22 | | | | | | | | |
| S 23 | 8 11 5 | 3° 5'46 | 8♌44 | 13°31 | 4°55 | 0♌27 | 4°30 | 29°25 | 1°37 | 14° 9 | 3°16 | 23°48 | 22°46 | 2°13 | 9°51 | S 23 | | | | | | | | |
| S 24 | 8 15 1 | 4° 6'53 | 22°33 | 14°55 | 6°10 | 1°10 | 4°44 | 29°24 | 1°41 | 14° 8 | 3°16 | 23°45 | 22°43 | 2°20 | 9°57 | S 24 | | | | | | | | |
| M25 | 8 18 58 | 5° 7'59 | 6♌51 | 16°20 | 7°24 | 1°53 | 4°58 | 29°24 | 1°44 | 14° 7 | 3°16 | 23°39 | 22°39 | 2°27 | 10° 4 | M25 | | | | | | | | |
| T 26 | 8 22 55 | 6° 9'06 | 21°36 | 17°46 | 8°39 | 2°36 | 5°12 | 29°23 | 1°47 | 14° 5 | 3°16 | 23°31 | 22°36 | 2°33 | 10°10 | T 26 | | | | | | | | |
| W27 | 8 26 51 | 7°10'12 | 6♌40 | 19°13 | 9°54 | 3°19 | 5°26 | 29°23 | 1°50 | 14° 4 | 3°17 | 23°20 | 22°33 | 2°40 | 10°16 | W27 | | | | | | | | |
| T 28 | 8 30 48 | 8°11'18 | 21°54 | 20°41 | 11° 8 | 4° 2 | 5°40 | 29°22 | 1°53 | 14° 3 | 3°17 | 23° 9 | 22°30 | 2°47 | 10°22 | T 28 | | | | | | | | |
| F 29 | 8 34 44 | 9°12'22 | 7♌6 | 22° 9 | 12°23 | 4°45 | 5°54 | 29°22 | 1°57 | 14° 1 | 3°17 | 22°58 | 22°27 | 2°54 | 10°28 | F 29 | | | | | | | | |
| S 30 | 8 38 41 | 10°13'26 | 22° 7 | 23°37 | 13°37 | 5°28 | 6° 8 | 29°D22 | 2° 0 | 14° 0 | 3°17 | 22°49 | 22°24 | 3° 0 | 10°34 | S 30 | | | | | | | | |
| S 31 | 8 42 37 | 11°14'30 | 6♌47 | 25♌7 | 14♌52 | 6♌11 | 6♌22 | 29♌22 | 2♌3 | 13♌59 | 3♌18 | 22♌42 | 22♌20 | 3♌7 | 10♌40 | S 31 | | | | | | | | |

Delta T = 19m33s

FEBRUARY 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|------|--------|------|--------|-------|------|-------|------|---|---|---|---|---|---|---|-----|
| M 1 | 8 46 34 | 12°15'32 | 21♌3 | 26♌37 | 16♌7 | 6♌54 | 6♌36 | 29♌22 | 2♌7 | 13°R57 | 3♌18 | 22°R39 | 22♌17 | 3♌14 | 10♌46 | M 1 | | | | | | | | |
| T 2 | 8 50 30 | 13°16'33 | 4♌52 | 28° 8 | 17°21 | 7°37 | 6°51 | 29°23 | 2°10 | 13♌56 | 3°18 | 22♌37 | 22°14 | 3°20 | 10°52 | T 2 | | | | | | | | |
| W 3 | 8 54 27 | 14°17'33 | 18°17 | 29°39 | 18°36 | 8°20 | 7° 5 | 29°23 | 2°13 | 13°55 | 3°19 | 22°37 | 22°11 | 3°27 | 10°58 | W 3 | | | | | | | | |
| T 4 | 8 58 24 | 15°18'33 | 1♌19 | 1♌11 | 19°50 | 9° 4 | 7°19 | 29°23 | 2°17 | 13°53 | 3°19 | 22°37 | 22° 8 | 3°34 | 11° 4 | T 4 | | | | | | | | |
| F 5 | 9 2 20 | 16°19'31 | 14° 3 | 2°44 | 21° 5 | 9°47 | 7°33 | 29°24 | 2°20 | 13°52 | 3°20 | 22°35 | 22° 4 | 3°41 | 11°10 | F 5 | | | | | | | | |
| S 6 | 9 6 17 | 17°20'28 | 26°33 | 4°17 | 22°20 | 10°30 | 7°47 | 29°25 | 2°23 | 13°50 | 3°20 | 22°32 | 22° 1 | 3°47 | 11°16 | S 6 | | | | | | | | |
| S 7 | 9 10 13 | 18°21'24 | 8♌51 | 5°51 | 23°34 | 11°14 | 8° 1 | 29°26 | 2°27 | 13°49 | 3°21 | 22°25 | 21°58 | 3°54 | 11°22 | S 7 | | | | | | | | |
| M 8 | 9 14 10 | 19°22'19 | 21° 1 | 7°26 | 24°49 | 11°57 | 8°15 | 29°26 | 2°30 | 13°47 | 3°21 | 22°15 | 21°55 | 4° 1 | 11°27 | M 8 | | | | | | | | |
| T 9 | 9 18 6 | 20°23'13 | 3♌5 | 9° 1 | 26° 4 | 12°41 | 8°29 | 29°28 | 2°33 | 13°46 | 3°22 | 22° 3 | 21°52 | 4° 7 | 11°33 | T 9 | | | | | | | | |
| W10 | 9 22 3 | 21°24'06 | 15° 3 | 10°37 | 27°18 | 13°24 | 8°43 | 29°29 | 2°37 | 13°44 | 3°22 | 21°48 | 21°49 | 4°14 | 11°39 | W10 | | | | | | | | |
| T 11 | 9 25 59 | 22°24'58 | 26°59 | 12°14 | 28°33 | 14° 8 | 8°57 | 29°30 | 2°40 | 13°43 | 3°23 | 21°33 | 21°45 | 4°21 | 11°44 | T 11 | | | | | | | | |
| F 12 | 9 29 56 | 23°25'48 | 8♌51 | 13°51 | 29°48 | 14°51 | 9°10 | 29°31 | 2°44 | 13°41 | 3°23 | 21°18 | 21°42 | 4°28 | 11°50 | F 12 | | | | | | | | |
| S 13 | 9 33 53 | 24°26'38 | 20°43 | 15°29 | 1♌2 | 15°35 | 9°24 | 29°33 | 2°47 | 13°40 | 3°24 | 21° 5 | 21°39 | 4°34 | 11°55 | S 13 | | | | | | | | |
| S 14 | 9 37 49 | 25°27'27 | 2♌35 | 17° 8 | 2°17 | 16°18 | 9°38 | 29°34 | 2°51 | 13°38 | 3°24 | 20°55 | 21°36 | 4°41 | 12° 1 | S 14 | | | | | | | | |
| M15 | 9 41 46 | 26°28'15 | 14°31 | 18°48 | 3°32 | 17° 2 | 9°52 | 29°36 | 2°54 | 13°37 | 3°25 | 20°47 | 21°33 | 4°48 | 12° 6 | M15 | | | | | | | | |
| T 16 | 9 45 42 | 27°29'01 | 26°33 | 20°28 | 4°47 | 17°46 | 10° 6 | 29°38 | 2°58 | 13°35 | 3°26 | 20°43 | 21°30 | 4°55 | 12°11 | T 16 | | | | | | | | |
| W17 | 9 49 39 | 28°29'47 | 8♌45 | 22° 9 | 6° 1 | 18°29 | 10°20 | 29°40 | 3° 1 | 13°34 | 3°26 | 20°41 | 21°26 | 5° 1 | 12°16 | W17 | | | | | | | | |
| T 18 | 9 53 35 | 29°30'32 | 21°12 | 23°51 | 7°16 | 19°13 | 10°33 | 29°42 | 3° 4 | 13°32 | 3°27 | 20°D40 | 21°23 | 5° 8 | 12°22 | T 18 | | | | | | | | |
| F 19 | 9 57 32 | 0♌31'16 | 3♌59 | 25°34 | 8°31 | 19°57 | 10°47 | 29°44 | 3° 8 | 13°30 | 3°28 | 20°R40 | 21°20 | 5°15 | 12°27 | F 19 | | | | | | | | |
| S 20 | 10 1 28 | 1°31'59 | 17°11 | 27°18 | 9°46 | 20°41 | 11° 1 | 29°46 | 3°11 | 13°29 | 3°29 | 20°39 | 21°17 | 5°21 | 12°32 | S 20 | | | | | | | | |
| S 21 | 10 5 25 | 2°32'41 | 0♌50 | 29° 2 | 11° 0 | 21°25 | 11°14 | 29°49 | 3°15 | 13°27 | 3°29 | 20°37 | 21°14 | 5°28 | 12°37 | S 21 | | | | | | | | |
| M22 | 10 9 22 | 3°33'22 | 14°59 | 0♌47 | 12°15 | 22° 8 | 11°28 | 29°51 | 3°18 | 13°25 | 3°30 | 20°31 | 21°10 | 5°35 | 12°42 | M22 | | | | | | | | |
| T 23 | 10 13 18 | 4°34'02 | 29°37 | 2°33 | 13°30 | 22°52 | 11°42 | 29°54 | 3°22 | 13°24 | 3°31 | 20°24 | 21° 7 | 5°42 | 12°47 | T 23 | | | | | | | | |
| W24 | 10 17 15 | 5°34'41 | 14♌39 | 4°20 | 14°45 | 23°36 | 11°55 | 29°56 | 3°25 | 13°22 | 3°32 | 20°14 | 21° 4 | 5°48 | 12°52 | W24 | | | | | | | | |
| T 25 | 10 21 11 | 6°35'18 | 29°57 | 6° 8 | 15°59 | 24°20 | 12° 9 | 29°59 | 3°29 | 13°20 | 3°33 | 20° 2 | 21° 1 | 5°55 | 12°56 | T 25 | | | | | | | | |
| F 26 | 10 25 8 | 7°35'54 | 15♌18 | 7°57 | 17°14 | 25° 4 | 12°22 | 0♌2 | 3°32 | 13°19 | 3°33 | 19°52 | 20°58 | 6° 2 | 13° 1 | F 26 | | | | | | | | |
| S 27 | 10 29 4 | 8°36'29 | 0♌32 | 9°46 | 18°29 | 25°48 | 12°36 | 0° 5 | 3°36 | 13°17 | 3°34 | 19°43 | 20°55 | 6° 8 | 13° 6 | S 27 | | | | | | | | |
| S 28 | 10 33 1 | 9♌37'01 | 15♌28 | 11♌36 | 19♌44 | 26♌32 | 12♌49 | 0♌8 | 3♌39 | 13♌15 | 3♌35 | 19♌36 | 20♌51 | 6♌15 | 13♌10 | S 28 | | | | | | | | |

Delta T = 19m34s

ASTRODIENST EPHEMERIS for the year 2590
geocentric

MARCH 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|------|--------|------|--------|-------|------|-------|------|-----|
| M 1 | 10 36 57 | 10♋37'32 | 29♏59 | 13♋27 | 20♏58 | 27♁16 | 13♎2 | 0♏11 | 3♋43 | 13°R14 | 3♁36 | 19°R32 | 20♏48 | 6♏22 | 13♁15 | M 1 | |
| T 2 | 10 40 54 | 11°38'02 | 14♁1 | 15°19 | 22°13 | 28°1 | 13°16 | 0°15 | 3°46 | 13♏12 | 3°37 | 19°D31 | 20°45 | 6°29 | 13°19 | T 2 | |
| W 3 | 10 44 50 | 12°38'29 | 27°34 | 17°11 | 23°28 | 28°45 | 13°29 | 0°18 | 3°50 | 13°10 | 3°38 | 19♏31 | 20°42 | 6°35 | 13°24 | W 3 | |
| T 4 | 10 48 47 | 13°38'55 | 10♏41 | 19°4 | 24°43 | 29°29 | 13°42 | 0°21 | 3°53 | 13°9 | 3°39 | 19°R31 | 20°39 | 6°42 | 13°28 | T 4 | |
| F 5 | 10 52 44 | 14°39'19 | 23°26 | 20°57 | 25°57 | 0♏13 | 13°55 | 0°25 | 3°56 | 13°7 | 3°40 | 19°31 | 20°36 | 6°49 | 13°32 | F 5 | |
| S 6 | 10 56 40 | 15°39'41 | 5♁52 | 22°50 | 27°12 | 0°57 | 14°8 | 0°29 | 4°0 | 13°5 | 3°41 | 19°29 | 20°32 | 6°55 | 13°36 | S 6 | |
| S 7 | 11 0 37 | 16°40'01 | 18°5 | 24°44 | 28°27 | 1°42 | 14°21 | 0°32 | 4°3 | 13°4 | 3°42 | 19°24 | 20°29 | 7°2 | 13°40 | S 7 | |
| M 8 | 11 4 33 | 17°40'19 | 0♏8 | 26°37 | 29°41 | 2°26 | 14°34 | 0°36 | 4°7 | 13°2 | 3°43 | 19°17 | 20°26 | 7°9 | 13°44 | M 8 | |
| T 9 | 11 8 30 | 18°40'35 | 12°4 | 28°30 | 0♋56 | 3°10 | 14°47 | 0°40 | 4°10 | 13°0 | 3°44 | 19°7 | 20°23 | 7°16 | 13°48 | T 9 | |
| W10 | 11 12 26 | 19°40'49 | 23°58 | 0♏23 | 2°11 | 3°55 | 15°0 | 0°44 | 4°13 | 12°59 | 3°45 | 18°56 | 20°20 | 7°22 | 13°52 | W10 | |
| T 11 | 11 16 23 | 20°41'01 | 5♏50 | 2°15 | 3°25 | 4°39 | 15°13 | 0°48 | 4°17 | 12°57 | 3°46 | 18°44 | 20°16 | 7°29 | 13°56 | T 11 | |
| F 12 | 11 20 19 | 21°41'12 | 17°42 | 4°6 | 4°40 | 5°23 | 15°26 | 0°53 | 4°20 | 12°55 | 3°47 | 18°33 | 20°13 | 7°36 | 14°0 | F 12 | |
| S 13 | 11 24 16 | 22°41'20 | 29°36 | 5°55 | 5°55 | 6°8 | 15°38 | 0°57 | 4°24 | 12°54 | 3°48 | 18°23 | 20°10 | 7°42 | 14°3 | S 13 | |
| S 14 | 11 28 13 | 23°41'27 | 11♁34 | 7°42 | 7°10 | 6°52 | 15°51 | 1°1 | 4°27 | 12°52 | 3°49 | 18°15 | 20°7 | 7°49 | 14°7 | S 14 | |
| M15 | 11 32 9 | 24°41'32 | 23°37 | 9°27 | 8°24 | 7°37 | 16°4 | 1°6 | 4°30 | 12°50 | 3°50 | 18°9 | 20°4 | 7°56 | 14°10 | M15 | |
| T 16 | 11 36 6 | 25°41'36 | 5♏46 | 11°8 | 9°39 | 8°21 | 16°16 | 1°10 | 4°33 | 12°49 | 3°51 | 18°6 | 20°1 | 8°3 | 14°14 | T 16 | |
| W17 | 11 40 2 | 26°41'38 | 18°5 | 12°47 | 10°54 | 9°6 | 16°28 | 1°15 | 4°37 | 12°47 | 3°53 | 18°D5 | 19°57 | 8°9 | 14°17 | W17 | |
| T 18 | 11 43 59 | 27°41'38 | 0♋38 | 14°21 | 12°8 | 9°50 | 16°41 | 1°20 | 4°40 | 12°45 | 3°54 | 18°6 | 19°54 | 8°16 | 14°20 | T 18 | |
| F 19 | 11 47 55 | 28°41'37 | 13°26 | 15°51 | 13°23 | 10°35 | 16°53 | 1°25 | 4°43 | 12°44 | 3°55 | 18°7 | 19°51 | 8°23 | 14°24 | F 19 | |
| S 20 | 11 51 52 | 29°41'34 | 26°35 | 17°16 | 14°37 | 11°20 | 17°5 | 1°29 | 4°47 | 12°42 | 3°56 | 18°R8 | 19°48 | 8°29 | 14°27 | S 20 | |
| S 21 | 11 55 48 | 0♏41'30 | 10♁7 | 18°36 | 15°52 | 12°4 | 17°17 | 1°34 | 4°50 | 12°41 | 3°57 | 18°7 | 19°45 | 8°36 | 14°30 | S 21 | |
| M22 | 11 59 45 | 1°41'24 | 24°4 | 19°49 | 17°7 | 12°49 | 17°30 | 1°40 | 4°53 | 12°39 | 3°58 | 18°5 | 19°41 | 8°43 | 14°33 | M22 | |
| T 23 | 12 3 42 | 2°41'17 | 8♏27 | 20°56 | 18°21 | 13°34 | 17°42 | 1°45 | 4°56 | 12°38 | 4°0 | 18°1 | 19°38 | 8°50 | 14°36 | T 23 | |
| W24 | 12 7 38 | 3°41'07 | 23°12 | 21°56 | 19°36 | 14°18 | 17°53 | 1°50 | 4°59 | 12°36 | 4°1 | 17°55 | 19°35 | 8°56 | 14°38 | W24 | |
| T 25 | 12 11 35 | 4°40'56 | 8♋15 | 22°49 | 20°51 | 15°3 | 18°5 | 1°55 | 5°2 | 12°34 | 4°2 | 17°49 | 19°32 | 9°3 | 14°41 | T 25 | |
| F 26 | 12 15 31 | 5°40'43 | 23°25 | 23°34 | 22°5 | 15°48 | 18°17 | 2°1 | 5°6 | 12°33 | 4°3 | 17°42 | 19°29 | 9°10 | 14°44 | F 26 | |
| S 27 | 12 19 28 | 6°40'28 | 8♏33 | 24°11 | 23°20 | 16°33 | 18°29 | 2°6 | 5°9 | 12°31 | 4°5 | 17°37 | 19°26 | 9°16 | 14°46 | S 27 | |
| S 28 | 12 23 24 | 7°40'12 | 23°29 | 24°41 | 24°34 | 17°17 | 18°40 | 2°11 | 5°12 | 12°30 | 4°6 | 17°33 | 19°22 | 9°23 | 14°49 | S 28 | |
| M29 | 12 27 21 | 8°39'53 | 8♁5 | 25°2 | 25°49 | 18°2 | 18°52 | 2°17 | 5°15 | 12°28 | 4°7 | 17°31 | 19°19 | 9°30 | 14°51 | M29 | |
| T 30 | 12 31 17 | 9°39'33 | 22°16 | 25°14 | 27°4 | 18°47 | 19°3 | 2°23 | 5°18 | 12°27 | 4°8 | 17°D30 | 19°16 | 9°37 | 14°53 | T 30 | |
| W31 | 12 35 14 | 10°39'09 | 5♏58 | 25°R19 | 28♋18 | 19♏32 | 19♏14 | 2♏28 | 5♋21 | 12♏26 | 4♁10 | 17♏31 | 19♏13 | 9♏43 | 14♁55 | W31 | |

Delta T = 19m34s

APRIL 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|----------|--------|-------|-------|-------|------|------|--------|------|--------|-------|-------|--------|------|-----|
| T 1 | 12 39 10 | 11°38'44 | 19♏14 | 25°R16 | 29♋33 | 20♏17 | 19♏26 | 2♏34 | 5♋24 | 12°R24 | 4♁11 | 17♏33 | 19♏10 | 9♏50 | 14♁57 | T 1 | |
| F 2 | 12 43 7 | 12°38'16 | 2♁5 | 25°Y5 | 0♏47 | 21°2 | 19°37 | 2°40 | 5°27 | 12♏23 | 4°12 | 17°34 | 19°7 | 9°57 | 14°59 | F 2 | |
| S 3 | 12 47 4 | 13°37'47 | 13°37'47 | 24°47 | 2°2 | 21°47 | 19°48 | 2°46 | 5°30 | 12°21 | 4°14 | 17°R35 | 19°3 | 10°3 | 15°1 | S 3 | |
| S 4 | 12 51 0 | 14°37'14 | 26°49 | 24°21 | 3°16 | 22°32 | 19°59 | 2°52 | 5°32 | 12°20 | 4°15 | 17°34 | 19°0 | 10°10 | 15°3 | S 4 | |
| M 5 | 12 54 57 | 15°36'40 | 8♏52 | 23°50 | 4°31 | 23°17 | 20°10 | 2°58 | 5°35 | 12°19 | 4°16 | 17°32 | 18°57 | 10°17 | 15°5 | M 5 | |
| T 6 | 12 58 53 | 16°36'03 | 20°47 | 23°14 | 5°45 | 24°1 | 20°20 | 3°4 | 5°38 | 12°17 | 4°18 | 17°28 | 18°54 | 10°24 | 15°6 | T 6 | |
| W 7 | 13 2 50 | 17°35'24 | 2♏38 | 22°33 | 7°0 | 24°46 | 20°31 | 3°10 | 5°41 | 12°16 | 4°19 | 17°23 | 18°51 | 10°30 | 15°8 | W 7 | |
| T 8 | 13 6 46 | 18°34'43 | 14°30 | 21°48 | 8°14 | 25°31 | 20°42 | 3°16 | 5°44 | 12°15 | 4°20 | 17°18 | 18°47 | 10°37 | 15°9 | T 8 | |
| F 9 | 13 10 43 | 19°34'00 | 26°24 | 21°0 | 9°29 | 26°16 | 20°52 | 3°23 | 5°46 | 12°13 | 4°22 | 17°13 | 18°44 | 10°44 | 15°11 | F 9 | |
| S 10 | 13 14 39 | 20°33'14 | 8♁23 | 20°11 | 10°43 | 27°1 | 21°2 | 3°29 | 5°49 | 12°12 | 4°23 | 17°9 | 18°41 | 10°50 | 15°12 | S 10 | |
| S 11 | 13 18 36 | 21°32'27 | 20°29 | 19°21 | 11°57 | 27°46 | 21°13 | 3°36 | 5°52 | 12°11 | 4°24 | 17°5 | 18°38 | 10°57 | 15°13 | S 11 | |
| M12 | 13 22 33 | 22°31'37 | 2♏43 | 18°31 | 13°12 | 28°32 | 21°23 | 3°42 | 5°55 | 12°10 | 4°26 | 17°3 | 18°35 | 11°4 | 15°14 | M12 | |
| T 13 | 13 26 29 | 23°30'46 | 15°6 | 17°43 | 14°26 | 29°17 | 21°33 | 3°48 | 5°57 | 12°9 | 4°27 | 17°D2 | 18°32 | 11°11 | 15°15 | T 13 | |
| W14 | 13 30 26 | 24°29'53 | 27°41 | 16°57 | 15°41 | 0♋2 | 21°43 | 3°55 | 6°0 | 12°7 | 4°29 | 17°3 | 18°28 | 11°17 | 15°16 | W14 | |
| T 15 | 13 34 22 | 25°28'57 | 10♋28 | 16°14 | 16°55 | 0°47 | 21°52 | 4°2 | 6°2 | 12°6 | 4°30 | 17°4 | 18°25 | 11°24 | 15°17 | T 15 | |
| F 16 | 13 38 19 | 26°28'00 | 23°29 | 15°34 | 18°9 | 1°32 | 22°2 | 4°8 | 6°5 | 12°5 | 4°31 | 17°5 | 18°22 | 11°31 | 15°18 | F 16 | |
| S 17 | 13 42 15 | 27°27'02 | 6♁46 | 14°59 | 19°24 | 2°17 | 22°12 | 4°15 | 6°7 | 12°4 | 4°33 | 17°7 | 18°19 | 11°37 | 15°18 | S 17 | |
| S 18 | 13 46 12 | 28°26'01 | 20°20 | 14°28 | 20°38 | 3°2 | 22°21 | 4°22 | 6°10 | 12°3 | 4°34 | 17°8 | 18°16 | 11°44 | 15°19 | S 18 | |
| M19 | 13 50 8 | 29°24'59 | 4♏13 | 14°2 | 21°52 | 3°47 | 22°31 | 4°29 | 6°12 | 12°2 | 4°36 | 17°R8 | 18°13 | 11°51 | 15°19 | M19 | |
| T 20 | 13 54 5 | 0♁23'55 | 18°23 | 13°41 | 23°7 | 4°32 | 22°40 | 4°35 | 6°14 | 12°1 | 4°37 | 17°7 | 18°9 | 11°58 | 15°20 | T 20 | |
| W21 | 13 58 2 | 1°22'50 | 2♋50 | 13°25 | 24°21 | 5°17 | 22°49 | 4°42 | 6°17 | 12°0 | 4°38 | 17°6 | 18°6 | 12°4 | 15°20 | W21 | |
| T 22 | 14 1 58 | 2°21'42 | 17°28 | 13°15 | 25°35 | 6°3 | 22°58 | 4°49 | 6°19 | 11°59 | 4°40 | 17°4 | 18°3 | 12°11 | 15°20 | T 22 | |
| F 23 | 14 5 55 | 3°20'33 | 2♏14 | 13°D10 | 26°50 | 6°48 | 23°7 | 4°56 | 6°21 | 11°58 | 4°41 | 17°2 | 18°0 | 12°18 | 15°R20 | F 23 | |
| S 24 | 14 9 51 | 4°19'23 | 17°0 | 13°10 | 28°4 | 7°33 | 23°15 | 5°3 | 6°24 | 11°57 | 4°42 | 17°1 | 17°57 | 12°24 | 15°20 | S 24 | |
| S 25 | 14 13 48 | 5°18'10 | 1♁40 | 13°16 | 29°18 | 8°18 | 23°24 | 5°10 | 6°26 | 11°56 | 4°44 | 17°0 | 17°53 | 12°31 | 15°20 | S 25 | |
| M26 | 14 17 44 | 6°16'55 | 16°5 | 13°26 | 0♁32 | 9°3 | 23°32 | 5°17 | 6°28 | 11°56 | 4°45 | 16°D59 | 17°50 | 12°38 | 15°20 | M26 | |
| T 27 | 14 21 41 | 7°15'39 | 0♏11 | 13°42 | 1°47 | 9°48 | 23°41 | 5°25 | 6°30 | 11°55 | 4°47 | 17°0 | 17°47 | 12°45 | 15°20 | T 27 | |
| W28 | 14 25 37 | 8°14'20 | 13°54 | 14°2 | 3°1 | 10°34 | 23°49 | 5°32 | 6°32 | 11°54 | 4°48 | 17°0 | 17°44 | 12°51 | 15°19 | W28 | |
| T 29 | 14 29 34 | 9°13'00 | 27°13 | 14°27 | 4°15 | 11°19 | 23°57 | 5°39 | 6°34 | 11°53 | 4°49 | 17°1 | 17°41 | 12°58 | 15°19 | T 29 | |
| F 30 | 14 33 31 | 10°11'37 | 10♁9 | 14°Y56 | 5♁29 | 12♋4 | 24♏5 | 5♏46 | 6♋36 | 11♏52 | 4♁51 | 17♏2 | 17♏38 | 13♏5 | 15♁18 | F 30 | |

Delta T = 19m34s

ASTRODIENST EPHEMERIS for the year 2590
geocentric

MAY 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|------|--------|------|--------|-------|-------|--------|------|-----|
| S 1 | 14 37 27 | 11♁10°12 | 22♁44 | 15♁29 | 6♁43 | 12♁49 | 24♁13 | 5♁53 | 6♁38 | 11°R52 | 4♁52 | 17♁2 | 17♁34 | 13♁11 | 15°R18 | S 1 | |
| S 2 | 14 41 24 | 12° 8'45 | 5♁2 | 16° 6 | 7°58 | 13°34 | 24°20 | 6° 1 | 6°40 | 11°R51 | 4°54 | 17° 2 | 17°31 | 13°18 | 15°R17 | S 2 | |
| M 3 | 14 45 20 | 13° 7'16 | 17° 7 | 16°47 | 9°12 | 14°19 | 24°28 | 6° 8 | 6°42 | 11°50 | 4°55 | 17°R 3 | 17°28 | 13°25 | 15°16 | M 3 | |
| T 4 | 14 49 17 | 14° 5'44 | 29° 3 | 17°32 | 10°26 | 15° 5 | 24°35 | 6°15 | 6°44 | 11°50 | 4°56 | 17° 2 | 17°25 | 13°31 | 15°15 | T 4 | |
| W 5 | 14 53 13 | 15° 4'11 | 10♁55 | 18°20 | 11°40 | 15°50 | 24°42 | 6°23 | 6°45 | 11°49 | 4°58 | 17° 2 | 17°22 | 13°38 | 15°14 | W 5 | |
| T 6 | 14 57 10 | 16° 2'35 | 22°47 | 19°12 | 12°54 | 16°35 | 24°49 | 6°30 | 6°47 | 11°49 | 4°59 | 17° 2 | 17°18 | 13°45 | 15°13 | T 6 | |
| F 7 | 15 1 6 | 17° 0'57 | 4♁44 | 20° 6 | 14° 8 | 17°20 | 24°56 | 6°38 | 6°49 | 11°48 | 5° 1 | 17°D 2 | 17°15 | 13°52 | 15°12 | F 7 | |
| S 8 | 15 5 3 | 17°59'18 | 16°48 | 21° 4 | 15°22 | 18° 5 | 25° 3 | 6°45 | 6°50 | 11°48 | 5° 2 | 17° 2 | 17°12 | 13°58 | 15°11 | S 8 | |
| S 9 | 15 9 0 | 18°57'36 | 29° 2 | 22° 5 | 16°36 | 18°50 | 25°10 | 6°53 | 6°52 | 11°47 | 5° 3 | 17° 2 | 17° 9 | 14° 5 | 15°10 | S 9 | |
| M10 | 15 12 56 | 19°55'53 | 11♁29 | 23° 8 | 17°50 | 19°35 | 25°16 | 7° 0 | 6°54 | 11°47 | 5° 5 | 17°R 2 | 17° 6 | 14°12 | 15° 8 | M10 | |
| T 11 | 15 16 53 | 20°54'08 | 24°10 | 24°15 | 19° 4 | 20°20 | 25°22 | 7° 8 | 6°55 | 11°46 | 5° 6 | 17° 2 | 17° 3 | 14°18 | 15° 7 | T 11 | |
| W12 | 15 20 49 | 21°52'21 | 7♁5 | 25°23 | 20°19 | 21° 5 | 25°29 | 7°15 | 6°57 | 11°46 | 5° 7 | 17° 2 | 16°59 | 14°25 | 15° 5 | W12 | |
| T 13 | 15 24 46 | 22°50'32 | 20°15 | 26°35 | 21°33 | 21°51 | 25°34 | 7°23 | 6°58 | 11°46 | 5° 9 | 17° 1 | 16°56 | 14°32 | 15° 4 | T 13 | |
| F 14 | 15 28 42 | 23°48'42 | 3♁38 | 27°49 | 22°47 | 22°36 | 25°40 | 7°30 | 6°59 | 11°45 | 5°10 | 17° 1 | 16°53 | 14°39 | 15° 2 | F 14 | |
| S 15 | 15 32 39 | 24°46'51 | 17°15 | 29° 5 | 24° 1 | 23°21 | 25°46 | 7°38 | 7° 1 | 11°45 | 5°11 | 17° 0 | 16°50 | 14°45 | 15° 0 | S 15 | |
| S 16 | 15 36 35 | 25°44'58 | 1♁3 | 0♁24 | 25°15 | 24° 6 | 25°51 | 7°46 | 7° 2 | 11°45 | 5°13 | 16°59 | 16°47 | 14°52 | 14°58 | S 16 | |
| M17 | 15 40 32 | 26°43'03 | 15° 2 | 1°45 | 26°29 | 24°51 | 25°57 | 7°53 | 7° 3 | 11°45 | 5°14 | 16°58 | 16°44 | 14°59 | 14°56 | M17 | |
| T 18 | 15 44 29 | 27°41'08 | 29° 9 | 3° 8 | 27°42 | 25°36 | 26° 2 | 8° 1 | 7° 4 | 11°45 | 5°15 | 16°D58 | 16°40 | 15° 5 | 14°54 | T 18 | |
| W19 | 15 48 25 | 28°39'11 | 13♁24 | 4°33 | 28°56 | 26°21 | 26° 7 | 8° 9 | 7° 6 | 11°45 | 5°17 | 16°59 | 16°37 | 15°12 | 14°52 | W19 | |
| T 20 | 15 52 22 | 29°37'12 | 27°43 | 6° 1 | 0♁10 | 27° 6 | 26°12 | 8°16 | 7° 7 | 11°44 | 5°18 | 16°59 | 16°34 | 15°19 | 14°50 | T 20 | |
| F 21 | 15 56 18 | 0♁35'13 | 12♁3 | 7°31 | 1°24 | 27°51 | 26°17 | 8°24 | 7° 8 | 11°44 | 5°19 | 17° 0 | 16°31 | 15°25 | 14°48 | F 21 | |
| S 22 | 16 0 15 | 1°33'12 | 26°22 | 9° 2 | 2°38 | 28°36 | 26°21 | 8°32 | 7° 9 | 11°D44 | 5°21 | 17° 1 | 16°28 | 15°32 | 14°45 | S 22 | |
| S 23 | 16 4 11 | 2°31'09 | 10♁34 | 10°36 | 3°52 | 29°21 | 26°25 | 8°40 | 7°10 | 11°44 | 5°22 | 17°R 2 | 16°24 | 15°39 | 14°43 | S 23 | |
| M24 | 16 8 8 | 3°29'06 | 24°36 | 12°12 | 5° 6 | 0♁6 | 26°29 | 8°47 | 7°11 | 11°44 | 5°23 | 17° 2 | 16°21 | 15°46 | 14°40 | M24 | |
| T 25 | 16 12 4 | 4°27'01 | 8♁25 | 13°51 | 6°20 | 0°50 | 26°33 | 8°55 | 7°11 | 11°44 | 5°24 | 17° 1 | 16°18 | 15°52 | 14°38 | T 25 | |
| W26 | 16 16 1 | 5°24'54 | 21°57 | 15°31 | 7°34 | 1°35 | 26°37 | 9° 3 | 7°12 | 11°45 | 5°26 | 16°59 | 16°15 | 15°59 | 14°35 | W26 | |
| T 27 | 16 19 58 | 6°22'46 | 5♁9 | 17°13 | 8°48 | 2°20 | 26°41 | 9°11 | 7°13 | 11°45 | 5°27 | 16°57 | 16°12 | 16° 6 | 14°33 | T 27 | |
| F 28 | 16 23 54 | 7°20'37 | 18° 3 | 18°58 | 10° 2 | 3° 5 | 26°44 | 9°18 | 7°14 | 11°45 | 5°28 | 16°54 | 16° 9 | 16°12 | 14°30 | F 28 | |
| S 29 | 16 27 51 | 8°18'26 | 0♁38 | 20°45 | 11°16 | 3°50 | 26°48 | 9°26 | 7°14 | 11°45 | 5°29 | 16°51 | 16° 5 | 16°19 | 14°27 | S 29 | |
| S 30 | 16 31 47 | 9°16'13 | 12°58 | 22°33 | 12°29 | 4°34 | 26°51 | 9°34 | 7°15 | 11°45 | 5°30 | 16°48 | 16° 2 | 16°26 | 14°24 | S 30 | |
| M31 | 16 35 44 | 10♁13'59 | 25° 4 | 24♁24 | 13♁43 | 5♁19 | 26°54 | 9♁42 | 7♁15 | 11°R46 | 5♁32 | 16♁46 | 15♁59 | 16♁33 | 14♁21 | M31 | |

Delta T = 19m35s

JUNE 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|--------|--------|-------|-------|--------|------|--------|-------|-------|--------|------|-----|
| T 1 | 16 39 40 | 11♁11'43 | 7♁0 | 26♁17 | 14♁57 | 6♁4 | 26°56 | 9♁49 | 7♁16 | 11°R46 | 5♁33 | 16°D45 | 15♁56 | 16♁39 | 14°R18 | T 1 | |
| W 2 | 16 43 37 | 12° 9'25 | 18°53 | 28°12 | 16°11 | 6°48 | 26°59 | 9°57 | 7°16 | 11°46 | 5°34 | 16♁45 | 15°53 | 16°46 | 14°R15 | W 2 | |
| T 3 | 16 47 33 | 13° 7'06 | 0♁46 | 0♁9 | 17°25 | 7°33 | 27° 1 | 10° 5 | 7°17 | 11°47 | 5°35 | 16°46 | 15°50 | 16°53 | 14°12 | T 3 | |
| F 4 | 16 51 30 | 14° 4'45 | 12°43 | 2° 8 | 18°39 | 8°18 | 27° 3 | 10°13 | 7°17 | 11°47 | 5°36 | 16°48 | 15°46 | 16°59 | 14° 9 | F 4 | |
| S 5 | 16 55 27 | 15° 2'23 | 24°51 | 4° 9 | 19°52 | 9° 2 | 27° 5 | 10°20 | 7°18 | 11°47 | 5°37 | 16°50 | 15°43 | 17° 6 | 14° 6 | S 5 | |
| S 6 | 16 59 23 | 16° 0'00 | 7♁12 | 6°12 | 21° 6 | 9°47 | 27° 7 | 10°28 | 7°18 | 11°48 | 5°39 | 16°51 | 15°40 | 17°13 | 14° 2 | S 6 | |
| M 7 | 17 3 20 | 16°57'35 | 19°49 | 8°16 | 22°20 | 10°31 | 27° 9 | 10°36 | 7°18 | 11°48 | 5°40 | 16°R51 | 15°37 | 17°19 | 13°59 | M 7 | |
| T 8 | 17 7 16 | 17°55'09 | 2♁45 | 10°22 | 23°34 | 11°15 | 27°10 | 10°43 | 7°18 | 11°49 | 5°41 | 16°50 | 15°34 | 17°26 | 13°56 | T 8 | |
| W 9 | 17 11 13 | 18°52'42 | 16° 1 | 12°30 | 24°47 | 12° 0 | 27°11 | 10°51 | 7°18 | 11°49 | 5°42 | 16°48 | 15°30 | 17°33 | 13°52 | W 9 | |
| T 10 | 17 15 9 | 19°50'14 | 29°35 | 14°39 | 26° 1 | 12°44 | 27°12 | 10°59 | 7°18 | 11°50 | 5°43 | 16°44 | 15°27 | 17°40 | 13°49 | T 10 | |
| F 11 | 17 19 6 | 20°47'45 | 13♁25 | 16°49 | 27°15 | 13°28 | 27°13 | 11° 7 | 7°R18 | 11°51 | 5°44 | 16°39 | 15°24 | 17°46 | 13°45 | F 11 | |
| S 12 | 17 23 2 | 21°45'15 | 27°28 | 19° 0 | 28°29 | 14°13 | 27°14 | 11°14 | 7°18 | 11°51 | 5°45 | 16°34 | 15°21 | 17°53 | 13°42 | S 12 | |
| S 13 | 17 26 59 | 22°42'44 | 11♁40 | 21°12 | 29°42 | 14°57 | 27°14 | 11°22 | 7°18 | 11°52 | 5°46 | 16°29 | 15°18 | 18° 0 | 13°38 | S 13 | |
| M14 | 17 30 56 | 23°40'12 | 25°56 | 23°24 | 0♁56 | 15°41 | 27°15 | 11°30 | 7°18 | 11°53 | 5°47 | 16°25 | 15°15 | 18° 6 | 13°35 | M14 | |
| T 15 | 17 34 52 | 24°37'40 | 10♁12 | 25°36 | 2°10 | 16°25 | 27°R15 | 11°37 | 7°18 | 11°53 | 5°48 | 16°22 | 15°11 | 18°13 | 13°31 | T 15 | |
| W16 | 17 38 49 | 25°35'07 | 24°26 | 27°48 | 3°23 | 17° 9 | 27°14 | 11°45 | 7°18 | 11°54 | 5°49 | 16°D21 | 15° 8 | 18°20 | 13°27 | W16 | |
| T 17 | 17 42 45 | 26°32'33 | 8♁35 | 29°59 | 4°37 | 17°53 | 27°14 | 11°52 | 7°18 | 11°55 | 5°50 | 16°22 | 15° 5 | 18°26 | 13°24 | T 17 | |
| F 18 | 17 46 42 | 27°29'59 | 22°37 | 2♁11 | 5°51 | 18°37 | 27°14 | 12° 0 | 7°17 | 11°56 | 5°51 | 16°23 | 15° 2 | 18°33 | 13°20 | F 18 | |
| S 19 | 17 50 38 | 28°27'24 | 6♁32 | 4°21 | 7° 5 | 19°21 | 27°13 | 12° 8 | 7°17 | 11°57 | 5°52 | 16°24 | 14°59 | 18°40 | 13°16 | S 19 | |
| S 20 | 17 54 35 | 29°24'49 | 20°18 | 6°30 | 8°18 | 20° 5 | 27°12 | 12°15 | 7°16 | 11°58 | 5°53 | 16°R25 | 14°56 | 18°47 | 13°12 | S 20 | |
| M21 | 17 58 31 | 0♁22'13 | 3♁54 | 8°37 | 9°32 | 20°49 | 27°11 | 12°23 | 7°16 | 11°58 | 5°54 | 16°23 | 14°52 | 18°53 | 13° 9 | M21 | |
| T 22 | 18 2 28 | 1°19'37 | 17°19 | 10°43 | 10°46 | 21°32 | 27°10 | 12°30 | 7°16 | 11°59 | 5°55 | 16°20 | 14°49 | 19° 0 | 13° 5 | T 22 | |
| W23 | 18 6 25 | 2°17'00 | 0♁31 | 12°47 | 11°59 | 22°16 | 27° 8 | 12°38 | 7°15 | 12° 0 | 5°55 | 16°14 | 14°46 | 19° 7 | 13° 1 | W23 | |
| T 24 | 18 10 21 | 3°14'22 | 13°29 | 14°50 | 13°13 | 23° 0 | 27° 7 | 12°45 | 7°14 | 12° 1 | 5°56 | 16° 7 | 14°43 | 19°13 | 12°57 | T 24 | |
| F 25 | 18 14 18 | 4°11'44 | 26°13 | 16°50 | 14°27 | 23°43 | 27° 5 | 12°53 | 7°14 | 12° 2 | 5°57 | 15°59 | 14°40 | 19°20 | 12°53 | F 25 | |
| S 26 | 18 18 14 | 5° 9'05 | 8♁42 | 18°48 | 15°40 | 24°27 | 27° 3 | 13° 0 | 7°13 | 12° 4 | 5°58 | 15°50 | 14°36 | 19°27 | 12°49 | S 26 | |
| S 27 | 18 22 11 | 6° 6'25 | 20°57 | 20°44 | 16°54 | 25°10 | 27° 1 | 13° 7 | 7°12 | 12° 5 | 5°59 | 15°42 | 14°33 | 19°33 | 12°45 | S 27 | |
| M28 | 18 26 7 | 7° 3'44 | 3♁1 | 22°38 | 18° 8 | 25°53 | 26°58 | 13°15 | 7°12 | 12° 6 | 5°59 | 15°35 | 14°30 | 19°40 | 12°41 | M28 | |
| T 29 | 18 30 4 | 8° 1'03 | 14°57 | 24°30 | 19°21 | 26°37 | 26°56 | 13°22 | 7°11 | 12° 7 | 6° 0 | 15°31 | 14°27 | 19°47 | 12°37 | T 29 | |
| W30 | 18 34 0 | 8°58'20 | 26♁48 | 26♁20 | 20♁35 | 27°R20 | 26°53 | 13♁29 | 7♁10 | 12♁8 | 6♁1 | 15♁28 | 14♁24 | 19♁54 | 12♁33 | W30 | |

Delta T = 19m35s

ASTRODIENST EPHEMERIS for the year 2590
geocentric

JULY 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|------|--------|-------|-------|--------|------|
| T 1 | 18 37 57 | 9♄55'38 | 8♄40 | 28♄ 7 | 21♄48 | 28♄ 3 | 26°R50 | 13♄36 | 7°R 9 | 12♄ 9 | 6♄ 2 | 15°D27 | 14♄21 | 20♄ 0 | 12°R29 | T 1 |
| F 2 | 18 41 54 | 10°52'54 | 20°37 | 29°52 | 23° 2 | 28°46 | 26♄47 | 13°44 | 7♄ 8 | 12°11 | 6° 2 | 15♄27 | 14°17 | 20° 7 | 12♄25 | F 2 |
| S 3 | 18 45 50 | 11°50'10 | 2♄44 | 1♄34 | 24°16 | 29°29 | 26°43 | 13°51 | 7° 7 | 12°12 | 6° 3 | 15°28 | 14°14 | 20°14 | 12°21 | S 3 |
| S 4 | 18 49 47 | 12°47'25 | 15° 7 | 3°15 | 25°29 | 0♄12 | 26°40 | 13°58 | 7° 6 | 12°13 | 6° 4 | 15°R29 | 14°11 | 20°20 | 12°17 | S 4 |
| M 5 | 18 53 43 | 13°44'40 | 27°49 | 4°53 | 26°43 | 0°55 | 26°36 | 14° 5 | 7° 5 | 12°14 | 6° 4 | 15°28 | 14° 8 | 20°27 | 12°13 | M 5 |
| T 6 | 18 57 40 | 14°41'54 | 10♄55 | 6°28 | 27°56 | 1°37 | 26°32 | 14°12 | 7° 4 | 12°16 | 6° 5 | 15°25 | 14° 5 | 20°34 | 12°10 | T 6 |
| W 7 | 19 1 36 | 15°39'07 | 24°25 | 8° 2 | 29°10 | 2°20 | 26°28 | 14°19 | 7° 3 | 12°17 | 6° 6 | 15°20 | 14° 2 | 20°40 | 12° 6 | W 7 |
| T 8 | 19 5 33 | 16°36'21 | 8♄19 | 9°32 | 0♄23 | 3° 2 | 26°24 | 14°26 | 7° 1 | 12°19 | 6° 6 | 15°13 | 13°58 | 20°47 | 12° 2 | T 8 |
| F 9 | 19 9 29 | 17°33'34 | 22°34 | 11° 1 | 1°37 | 3°45 | 26°20 | 14°33 | 7° 0 | 12°20 | 6° 7 | 15° 4 | 13°55 | 20°54 | 11°58 | F 9 |
| S 10 | 19 13 26 | 18°30'47 | 7♄ 4 | 12°27 | 2°50 | 4°27 | 26°15 | 14°40 | 6°59 | 12°21 | 6° 7 | 14°55 | 13°52 | 21° 1 | 11°54 | S 10 |
| S 11 | 19 17 23 | 19°28'00 | 21°43 | 13°51 | 4° 4 | 5°10 | 26°11 | 14°47 | 6°57 | 12°23 | 6° 8 | 14°46 | 13°49 | 21° 7 | 11°50 | S 11 |
| M12 | 19 21 19 | 20°25'12 | 6♄22 | 15°12 | 5°17 | 5°52 | 26° 6 | 14°54 | 6°56 | 12°24 | 6° 8 | 14°38 | 13°46 | 21°14 | 11°46 | M12 |
| T 13 | 19 25 16 | 21°22'25 | 20°56 | 16°31 | 6°31 | 6°34 | 26° 1 | 15° 1 | 6°55 | 12°26 | 6° 9 | 14°32 | 13°42 | 21°21 | 11°42 | T 13 |
| W14 | 19 29 12 | 22°19'38 | 5♄19 | 17°47 | 7°44 | 7°16 | 25°56 | 15° 7 | 6°53 | 12°27 | 6° 9 | 14°29 | 13°39 | 21°27 | 11°38 | W14 |
| T 15 | 19 33 9 | 23°16'52 | 19°29 | 19° 0 | 8°58 | 7°58 | 25°50 | 15°14 | 6°52 | 12°29 | 6°10 | 14°D28 | 13°36 | 21°34 | 11°34 | T 15 |
| F 16 | 19 37 5 | 24°14'06 | 3♄25 | 20°11 | 10°11 | 8°40 | 25°45 | 15°21 | 6°50 | 12°31 | 6°10 | 14°28 | 13°33 | 21°41 | 11°31 | F 16 |
| S 17 | 19 41 2 | 25°11'20 | 17° 5 | 21°19 | 11°25 | 9°21 | 25°39 | 15°27 | 6°49 | 12°32 | 6°11 | 14°R28 | 13°30 | 21°47 | 11°27 | S 17 |
| S 18 | 19 44 58 | 26° 8'34 | 0♄33 | 22°25 | 12°38 | 10° 3 | 25°34 | 15°34 | 6°47 | 12°34 | 6°11 | 14°27 | 13°27 | 21°54 | 11°23 | S 18 |
| M19 | 19 48 55 | 27° 5'49 | 13°47 | 23°27 | 13°52 | 10°44 | 25°28 | 15°40 | 6°45 | 12°36 | 6°11 | 14°24 | 13°23 | 22° 1 | 11°19 | M19 |
| T 20 | 19 52 52 | 28° 3'05 | 26°50 | 24°27 | 15° 5 | 11°26 | 25°22 | 15°47 | 6°44 | 12°37 | 6°12 | 14°19 | 13°20 | 22° 7 | 11°16 | T 20 |
| W21 | 19 56 48 | 29° 0'20 | 9♄41 | 25°23 | 16°19 | 12° 7 | 25°16 | 15°53 | 6°42 | 12°39 | 6°12 | 14°10 | 13°17 | 22°14 | 11°12 | W21 |
| T 22 | 20 0 45 | 29°57'36 | 22°22 | 26°16 | 17°32 | 12°48 | 25° 9 | 16° 0 | 6°40 | 12°41 | 6°12 | 13°59 | 13°14 | 22°21 | 11° 8 | T 22 |
| F 23 | 20 4 41 | 0♄54'52 | 4♄51 | 27° 6 | 18°46 | 13°29 | 25° 3 | 16° 6 | 6°38 | 12°42 | 6°13 | 13°47 | 13°11 | 22°28 | 11° 5 | F 23 |
| S 24 | 20 8 38 | 1°52'08 | 17° 9 | 27°53 | 19°59 | 14°10 | 24°57 | 16°12 | 6°37 | 12°44 | 6°13 | 13°34 | 13° 8 | 22°34 | 11° 1 | S 24 |
| S 25 | 20 12 34 | 2°49'25 | 29°17 | 28°36 | 21°13 | 14°51 | 24°50 | 16°18 | 6°35 | 12°46 | 6°13 | 13°21 | 13° 4 | 22°41 | 10°57 | S 25 |
| M26 | 20 16 31 | 3°46'42 | 11♄16 | 29°15 | 22°26 | 15°32 | 24°43 | 16°24 | 6°33 | 12°48 | 6°13 | 13°10 | 13° 1 | 22°48 | 10°54 | M26 |
| T 27 | 20 20 28 | 4°43'58 | 23° 8 | 29°50 | 23°39 | 16°12 | 24°36 | 16°30 | 6°31 | 12°50 | 6°14 | 13° 2 | 12°58 | 22°54 | 10°51 | T 27 |
| W28 | 20 24 24 | 5°41'16 | 4♄57 | 0♄21 | 24°53 | 16°53 | 24°30 | 16°36 | 6°29 | 12°51 | 6°14 | 12°56 | 12°55 | 23° 1 | 10°47 | W28 |
| T 29 | 20 28 21 | 6°38'33 | 16°47 | 0°49 | 26° 6 | 17°33 | 24°22 | 16°42 | 6°27 | 12°53 | 6°14 | 12°53 | 12°52 | 23° 8 | 10°44 | T 29 |
| F 30 | 20 32 17 | 7°35'50 | 28°42 | 1°11 | 27°19 | 18°13 | 24°15 | 16°48 | 6°25 | 12°55 | 6°14 | 12°52 | 12°48 | 23°14 | 10°41 | F 30 |
| S 31 | 20 36 14 | 8♄33'08 | 10♄47 | 1♄30 | 28♄33 | 18♄53 | 24♄ 8 | 16♄54 | 6♄23 | 12♄57 | 6♄14 | 12♄52 | 12♄45 | 23♄21 | 10♄37 | S 31 |

Delta T = 19m35s

AUGUST 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|------|
| S 1 | 20 40 10 | 9♄30'26 | 23♄ 8 | 1♄43 | 29♄46 | 19♄33 | 24°R 1 | 17♄ 0 | 6°R21 | 12♄59 | 6♄14 | 12°R52 | 12♄42 | 23♄28 | 10°R34 | S 1 |
| M 2 | 20 44 7 | 10°27'44 | 5♄50 | 1°52 | 0♄59 | 20°13 | 23♄54 | 17° 5 | 6♄19 | 13° 1 | 6°14 | 12♄50 | 12°39 | 23°34 | 10♄31 | M 2 |
| T 3 | 20 48 3 | 11°25'03 | 18°58 | 1°R56 | 2°13 | 20°52 | 23°46 | 17°11 | 6°17 | 13° 3 | 6°15 | 12°47 | 12°36 | 23°41 | 10°28 | T 3 |
| W 4 | 20 52 0 | 12°22'22 | 2♄33 | 1°55 | 3°26 | 21°32 | 23°39 | 17°17 | 6°15 | 13° 5 | 6°15 | 12°41 | 12°33 | 23°48 | 10°25 | W 4 |
| T 5 | 20 55 57 | 13°19'41 | 16°37 | 1°49 | 4°39 | 22°11 | 23°31 | 17°22 | 6°13 | 13° 7 | 6°R15 | 12°33 | 12°29 | 23°55 | 10°22 | T 5 |
| F 6 | 20 59 53 | 14°17'01 | 1♄ 6 | 1°37 | 5°53 | 22°50 | 23°24 | 17°27 | 6°11 | 13° 9 | 6°15 | 12°23 | 12°26 | 24° 1 | 10°19 | F 6 |
| S 7 | 21 3 50 | 15°14'22 | 15°55 | 1°21 | 7° 6 | 23°29 | 23°16 | 17°33 | 6° 9 | 13°11 | 6°15 | 12°12 | 12°23 | 24° 8 | 10°16 | S 7 |
| S 8 | 21 7 46 | 16°11'43 | 0♄56 | 1° 0 | 8°19 | 24° 8 | 23° 8 | 17°38 | 6° 6 | 13°13 | 6°15 | 12° 1 | 12°20 | 24°15 | 10°13 | S 8 |
| M 9 | 21 11 43 | 17° 9'05 | 15°59 | 0°34 | 9°32 | 24°47 | 23° 1 | 17°43 | 6° 4 | 13°15 | 6°14 | 11°52 | 12°17 | 24°21 | 10°10 | M 9 |
| T 10 | 21 15 39 | 18° 6'28 | 0♄53 | 0° 4 | 10°45 | 25°26 | 22°53 | 17°48 | 6° 2 | 13°17 | 6°14 | 11°45 | 12°13 | 24°28 | 10° 8 | T 10 |
| W11 | 21 19 36 | 19° 3'52 | 15°33 | 29♄29 | 11°59 | 26° 4 | 22°45 | 17°53 | 6° 0 | 13°19 | 6°14 | 11°41 | 12°10 | 24°35 | 10° 5 | W11 |
| T 12 | 21 23 32 | 20° 1'17 | 29°54 | 28°51 | 13°12 | 26°42 | 22°37 | 17°58 | 5°57 | 13°21 | 6°14 | 11°39 | 12° 7 | 24°41 | 10° 3 | T 12 |
| F 13 | 21 27 29 | 20°58'43 | 13♄53 | 28°10 | 14°25 | 27°20 | 22°30 | 18° 3 | 5°55 | 13°23 | 6°14 | 11°39 | 12° 4 | 24°48 | 10° 0 | F 13 |
| S 14 | 21 31 25 | 21°56'11 | 27°31 | 27°26 | 15°38 | 27°58 | 22°22 | 18° 8 | 5°53 | 13°25 | 6°14 | 11°39 | 12° 1 | 24°55 | 9°58 | S 14 |
| S 15 | 21 35 22 | 22°53'40 | 10♄49 | 26°40 | 16°51 | 28°36 | 22°14 | 18°13 | 5°51 | 13°27 | 6°14 | 11°38 | 11°58 | 25° 1 | 9°55 | S 15 |
| M16 | 21 39 19 | 23°51'10 | 23°51 | 25°53 | 18° 4 | 29°14 | 22° 6 | 18°17 | 5°48 | 13°29 | 6°13 | 11°35 | 11°54 | 25° 8 | 9°53 | M16 |
| T 17 | 21 43 15 | 24°48'41 | 6♄38 | 25° 5 | 19°17 | 29°51 | 21°58 | 18°22 | 5°46 | 13°31 | 6°13 | 11°29 | 11°51 | 25°15 | 9°51 | T 17 |
| W18 | 21 47 12 | 25°46'14 | 19°13 | 24°19 | 20°30 | 0♄28 | 21°50 | 18°27 | 5°44 | 13°33 | 6°13 | 11°21 | 11°48 | 25°21 | 9°49 | W18 |
| T 19 | 21 51 8 | 26°43'47 | 1♄37 | 23°33 | 21°43 | 1° 5 | 21°43 | 18°31 | 5°41 | 13°36 | 6°13 | 11°10 | 11°45 | 25°28 | 9°47 | T 19 |
| F 20 | 21 55 5 | 27°41'22 | 13°52 | 22°51 | 22°56 | 1°42 | 21°35 | 18°35 | 5°39 | 13°38 | 6°12 | 10°58 | 11°42 | 25°35 | 9°45 | F 20 |
| S 21 | 21 59 1 | 28°38'58 | 25°59 | 22°11 | 24° 9 | 2°18 | 21°27 | 18°40 | 5°36 | 13°40 | 6°12 | 10°45 | 11°39 | 25°42 | 9°43 | S 21 |
| S 22 | 22 2 58 | 29°36'35 | 7♄59 | 21°36 | 25°22 | 2°55 | 21°20 | 18°44 | 5°34 | 13°42 | 6°12 | 10°32 | 11°35 | 25°48 | 9°41 | S 22 |
| M23 | 22 6 54 | 0♄34'13 | 19°52 | 21° 5 | 26°35 | 3°31 | 21°12 | 18°48 | 5°32 | 13°44 | 6°11 | 10°22 | 11°32 | 25°55 | 9°39 | M23 |
| T 24 | 22 10 51 | 1°31'53 | 1♄42 | 20°40 | 27°48 | 4° 7 | 21° 4 | 18°52 | 5°29 | 13°46 | 6°11 | 10°13 | 11°29 | 26° 2 | 9°38 | T 24 |
| W25 | 22 14 48 | 2°29'33 | 13°29 | 20°21 | 29° 1 | 4°43 | 20°57 | 18°56 | 5°27 | 13°49 | 6°11 | 10° 7 | 11°26 | 26° 8 | 9°36 | W25 |
| T 26 | 22 18 44 | 3°27'14 | 25°18 | 20° 8 | 0♄14 | 5°18 | 20°49 | 18°59 | 5°25 | 13°51 | 6°10 | 10° 4 | 11°23 | 26°15 | 9°35 | T 26 |
| F 27 | 22 22 41 | 4°24'57 | 7♄13 | 20°D 3 | 1°27 | 5°53 | 20°42 | 19° 3 | 5°22 | 13°53 | 6°10 | 10°D 3 | 11°19 | 26°22 | 9°33 | F 27 |
| S 28 | 22 26 37 | 5°22'40 | 19°17 | 20° 5 | 2°40 | 6°29 | 20°34 | 19° 7 | 5°20 | 13°55 | 6° 9 | 10° 3 | 11°16 | 26°28 | 9°32 | S 28 |
| S 29 | 22 30 34 | 6°20'25 | 1♄36 | 20°14 | 3°53 | 7° 3 | 20°27 | 19°10 | 5°17 | 13°57 | 6° 9 | 10°R 4 | 11°13 | 26°35 | 9°30 | S 29 |
| M30 | 22 34 30 | 7°18'11 | 14°15 | 20°31 | 5° 6 | 7°38 | 20°20 | 19°14 | 5°15 | 14° 0 | 6° 8 | 10° 4 | 11°10 | 26°42 | 9°29 | M30 |
| T 31 | 22 38 27 | 8♄15'57 | 27♄19 | 20♄55 | 6♄19 | 8♄12 | 20♄13 | 19♄17 | 5♄13 | 14♄ 2 | 6♄ 8 | 10♄ 2 | 11♄ 7 | 26♄48 | 9♄28 | T 31 |

Delta T = 19m36s

ASTRODIENST EPHEMERIS for the year 2590
geocentric

SEPTEMBER 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|
| W 1 | 22 42 23 | 9♎13'45 | 10♌51 | 21♏27 | 7♋31 | 8♏46 | 20°R 6 | 19♏20 | 5°R10 | 14♎4 | 6°R 7 | 9°R58 | 11♎4 | 26♎55 | 9°R27 | W 1 | |
| T 2 | 22 46 20 | 10°11'34 | 24°52 | 22° 7 | 8°44 | 9°20 | 19♋59 | 19°24 | 5♁ 8 | 14° 6 | 6♌ 7 | 9♎52 | 11° 0 | 27° 2 | 9♌26 | T 2 | |
| F 3 | 22 50 17 | 11° 9'24 | 9♋22 | 22°54 | 9°57 | 9°54 | 19°52 | 19°27 | 5° 5 | 14° 8 | 6° 6 | 9°45 | 10°57 | 27° 8 | 9°25 | F 3 | |
| S 4 | 22 54 13 | 12° 7'16 | 24°17 | 23°48 | 11°10 | 10°27 | 19°46 | 19°30 | 5° 3 | 14°11 | 6° 6 | 9°36 | 10°54 | 27°15 | 9°25 | S 4 | |
| S 5 | 22 58 10 | 13° 5'08 | 9♁27 | 24°49 | 12°22 | 11° 0 | 19°39 | 19°33 | 5° 1 | 14°13 | 6° 5 | 9°28 | 10°51 | 27°22 | 9°24 | S 5 | |
| M 6 | 23 2 6 | 14° 3'03 | 24°43 | 25°57 | 13°35 | 11°33 | 19°32 | 19°35 | 4°58 | 14°15 | 6° 4 | 9°20 | 10°48 | 27°28 | 9°23 | M 6 | |
| T 7 | 23 6 3 | 15° 0'58 | 9♏53 | 27°11 | 14°48 | 12° 6 | 19°26 | 19°38 | 4°56 | 14°17 | 6° 4 | 9°15 | 10°45 | 27°35 | 9°23 | T 7 | |
| W 8 | 23 9 59 | 15°58'56 | 24°50 | 28°31 | 16° 0 | 12°38 | 19°20 | 19°41 | 4°54 | 14°20 | 6° 3 | 9°12 | 10°41 | 27°42 | 9°22 | W 8 | |
| T 9 | 23 13 56 | 16°56'55 | 9♌25 | 29°56 | 17°13 | 13°10 | 19°14 | 19°43 | 4°51 | 14°22 | 6° 2 | 9°D11 | 10°38 | 27°48 | 9°22 | T 9 | |
| F 10 | 23 17 52 | 17°54'56 | 23°35 | 1♎27 | 18°25 | 13°42 | 19° 8 | 19°45 | 4°49 | 14°24 | 6° 2 | 9°12 | 10°35 | 27°55 | 9°22 | F 10 | |
| S 11 | 23 21 49 | 18°52'59 | 7♏20 | 3° 2 | 19°38 | 14°13 | 19° 2 | 19°48 | 4°47 | 14°26 | 6° 1 | 9°13 | 10°32 | 28° 2 | 9°22 | S 11 | |
| S 12 | 23 25 46 | 19°51'04 | 20°40 | 4°40 | 20°50 | 14°44 | 18°56 | 19°50 | 4°44 | 14°28 | 6° 0 | 9°R14 | 10°29 | 28° 9 | 9°D21 | S 12 | |
| M13 | 23 29 42 | 20°49'11 | 3♌38 | 6°23 | 22° 3 | 15°15 | 18°51 | 19°52 | 4°42 | 14°31 | 5°59 | 9°13 | 10°25 | 28°15 | 9°21 | M13 | |
| T 14 | 23 33 39 | 21°47'20 | 16°19 | 8° 8 | 23°15 | 15°46 | 18°45 | 19°54 | 4°40 | 14°33 | 5°59 | 9°10 | 10°22 | 28°22 | 9°22 | T 14 | |
| W15 | 23 37 35 | 22°45'30 | 28°44 | 9°56 | 24°28 | 16°16 | 18°40 | 19°56 | 4°38 | 14°35 | 5°58 | 9° 5 | 10°19 | 28°29 | 9°22 | W15 | |
| T 16 | 23 41 32 | 23°43'43 | 10♏57 | 11°46 | 25°40 | 16°46 | 18°35 | 19°58 | 4°35 | 14°37 | 5°57 | 8°58 | 10°16 | 28°35 | 9°22 | T 16 | |
| F 17 | 23 45 28 | 24°41'57 | 23° 2 | 13°37 | 26°53 | 17°15 | 18°30 | 19°59 | 4°33 | 14°39 | 5°56 | 8°51 | 10°13 | 28°42 | 9°22 | F 17 | |
| S 18 | 23 49 25 | 25°40'14 | 4♎59 | 15°30 | 28° 5 | 17°44 | 18°25 | 20° 1 | 4°31 | 14°42 | 5°56 | 8°42 | 10°10 | 28°49 | 9°23 | S 18 | |
| S 19 | 23 53 21 | 26°38'32 | 16°52 | 17°24 | 29°17 | 18°13 | 18°20 | 20° 2 | 4°29 | 14°44 | 5°55 | 8°34 | 10° 6 | 28°55 | 9°23 | S 19 | |
| M20 | 23 57 18 | 27°36'51 | 28°42 | 19°18 | 0♎30 | 18°41 | 18°16 | 20° 4 | 4°27 | 14°46 | 5°54 | 8°27 | 10° 3 | 29° 2 | 9°24 | M20 | |
| T 21 | 0 1 14 | 28°35'13 | 10♌31 | 21°12 | 1°42 | 19° 9 | 18°12 | 20° 5 | 4°25 | 14°48 | 5°53 | 8°22 | 10° 0 | 29° 9 | 9°25 | T 21 | |
| W22 | 0 5 11 | 29°33'36 | 22°20 | 23° 7 | 2°54 | 19°37 | 18° 8 | 20° 6 | 4°23 | 14°50 | 5°52 | 8°19 | 9°57 | 29°15 | 9°25 | W22 | |
| T 23 | 0 9 8 | 0♌32'02 | 4♎13 | 25° 1 | 4° 6 | 20° 4 | 18° 4 | 20° 7 | 4°20 | 14°53 | 5°51 | 8°D18 | 9°54 | 29°22 | 9°26 | T 23 | |
| F 24 | 0 13 4 | 1°30'28 | 16°12 | 26°55 | 5°19 | 20°31 | 18° 0 | 20° 8 | 4°18 | 14°55 | 5°50 | 8°18 | 9°50 | 29°29 | 9°27 | F 24 | |
| S 25 | 0 17 1 | 2°28'57 | 28°20 | 28°48 | 6°31 | 20°58 | 17°56 | 20° 9 | 4°16 | 14°57 | 5°49 | 8°19 | 9°47 | 29°35 | 9°28 | S 25 | |
| S 26 | 0 20 57 | 3°27'27 | 10♌41 | 0♌41 | 7°43 | 21°24 | 17°53 | 20° 9 | 4°14 | 14°59 | 5°48 | 8°21 | 9°44 | 29°42 | 9°29 | S 26 | |
| M27 | 0 24 54 | 4°25'59 | 23°20 | 2°33 | 8°55 | 21°49 | 17°50 | 20°10 | 4°12 | 15° 1 | 5°48 | 8°22 | 9°41 | 29°49 | 9°31 | M27 | |
| T 28 | 0 28 50 | 5°24'32 | 6♌20 | 4°24 | 10° 7 | 22°15 | 17°47 | 20°10 | 4°11 | 15° 3 | 5°47 | 8°R23 | 9°38 | 29°55 | 9°32 | T 28 | |
| W29 | 0 32 47 | 6°23'07 | 19°45 | 6°15 | 11°19 | 22°39 | 17°44 | 20°11 | 4° 9 | 15° 5 | 5°46 | 8°22 | 9°35 | 0♌ 2 | 9°33 | W29 | |
| T 30 | 0 36 43 | 7♌21'44 | 3♋37 | 8♌ 4 | 12♎31 | 23♏ 4 | 17♋41 | 20♏11 | 4♁ 7 | 15♎ 7 | 5♌45 | 8♎20 | 9♎31 | 0♌ 9 | 9♌35 | T 30 | |

Delta T = 19m36s

OCTOBER 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|------|------|-------|------|-----|
| F 1 | 0 40 40 | 8♌20'22 | 17♋57 | 9♌53 | 13♎43 | 23♏28 | 17°R39 | 20♏11 | 4°R 5 | 15♎ 9 | 5°R44 | 8°R16 | 9♎28 | 0♌15 | 9♌36 | F 1 | |
| S 2 | 0 44 37 | 9°19'02 | 2♁41 | 11°41 | 14°55 | 23°51 | 17♋36 | 20°R11 | 4♁ 3 | 15°12 | 5♌43 | 8♎12 | 9°25 | 0°22 | 9°38 | S 2 | |
| S 3 | 0 48 33 | 10°17'43 | 17°43 | 13°27 | 16° 7 | 24°14 | 17°34 | 20°11 | 4° 1 | 15°14 | 5°42 | 8° 8 | 9°22 | 0°29 | 9°40 | S 3 | |
| M 4 | 0 52 30 | 11°16'26 | 2♏56 | 15°13 | 17°18 | 24°37 | 17°32 | 20°11 | 4° 0 | 15°16 | 5°41 | 8° 5 | 9°19 | 0°35 | 9°42 | M 4 | |
| T 5 | 0 56 26 | 12°15'11 | 18°10 | 16°58 | 18°30 | 24°59 | 17°31 | 20°11 | 3°58 | 15°18 | 5°40 | 8° 3 | 9°16 | 0°42 | 9°43 | T 5 | |
| W 6 | 1 0 23 | 13°13'59 | 3♌14 | 18°42 | 19°42 | 25°20 | 17°29 | 20°10 | 3°56 | 15°20 | 5°39 | 8°D 2 | 9°12 | 0°49 | 9°45 | W 6 | |
| T 7 | 1 4 19 | 14°12'48 | 17°59 | 20°25 | 20°54 | 25°41 | 17°28 | 20°10 | 3°54 | 15°22 | 5°38 | 8° 2 | 9° 9 | 0°55 | 9°47 | T 7 | |
| F 8 | 1 8 16 | 15°11'39 | 2♏21 | 22° 7 | 22° 5 | 26° 1 | 17°27 | 20° 9 | 3°53 | 15°24 | 5°37 | 8° 3 | 9° 6 | 1° 2 | 9°50 | F 8 | |
| S 9 | 1 12 12 | 16°10'33 | 16°16 | 23°48 | 23°17 | 26°21 | 17°26 | 20° 8 | 3°51 | 15°26 | 5°35 | 8° 4 | 9° 3 | 1° 9 | 9°52 | S 9 | |
| S 10 | 1 16 9 | 17° 9'29 | 29°44 | 25°28 | 24°28 | 26°41 | 17°25 | 20° 8 | 3°50 | 15°28 | 5°34 | 8° 6 | 9° 0 | 1°15 | 9°54 | S 10 | |
| M11 | 1 20 6 | 18° 8'27 | 12♌47 | 27° 8 | 25°40 | 27° 0 | 17°24 | 20° 7 | 3°48 | 15°30 | 5°33 | 8°R 7 | 8°56 | 1°22 | 9°57 | M11 | |
| T 12 | 1 24 2 | 19° 7'28 | 25°28 | 28°46 | 26°52 | 27°18 | 17°24 | 20° 6 | 3°47 | 15°32 | 5°32 | 8° 7 | 8°53 | 1°29 | 9°59 | T 12 | |
| W13 | 1 27 59 | 20° 6'31 | 7♏24 | 0♎24 | 28° 3 | 27°35 | 17°D24 | 20° 5 | 3°45 | 15°33 | 5°31 | 8° 6 | 8°50 | 1°35 | 10° 2 | W13 | |
| T 14 | 1 31 55 | 21° 5'36 | 20° 0 | 2° 1 | 29°14 | 27°53 | 17°24 | 20° 3 | 3°44 | 15°35 | 5°30 | 8° 4 | 8°47 | 1°42 | 10° 4 | T 14 | |
| F 15 | 1 35 52 | 22° 4'43 | 1♎59 | 3°37 | 0♌26 | 28° 9 | 17°24 | 20° 2 | 3°43 | 15°37 | 5°29 | 8° 2 | 8°44 | 1°49 | 10° 7 | F 15 | |
| S 16 | 1 39 48 | 23° 3'52 | 13°52 | 5°12 | 1°37 | 28°25 | 17°25 | 20° 0 | 3°41 | 15°39 | 5°28 | 7°59 | 8°41 | 1°55 | 10°10 | S 16 | |
| S 17 | 1 43 45 | 24° 3'04 | 25°41 | 6°46 | 2°48 | 28°40 | 17°25 | 19°59 | 3°40 | 15°41 | 5°27 | 7°57 | 8°37 | 2° 2 | 10°13 | S 17 | |
| M18 | 1 47 41 | 25° 2'17 | 7♌30 | 8°20 | 4° 0 | 28°54 | 17°26 | 19°57 | 3°39 | 15°43 | 5°26 | 7°55 | 8°34 | 2° 9 | 10°15 | M18 | |
| T 19 | 1 51 38 | 26° 1'33 | 19°21 | 9°53 | 5°11 | 29° 8 | 17°27 | 19°55 | 3°38 | 15°45 | 5°24 | 7°54 | 8°31 | 2°16 | 10°19 | T 19 | |
| W20 | 1 55 34 | 27° 0'51 | 1♎16 | 11°26 | 6°22 | 29°21 | 17°28 | 19°53 | 3°36 | 15°46 | 5°23 | 7°53 | 8°28 | 2°22 | 10°22 | W20 | |
| T 21 | 1 59 31 | 28° 0'11 | 13°18 | 12°57 | 7°33 | 29°34 | 17°30 | 19°51 | 3°35 | 15°48 | 5°22 | 7°D53 | 8°25 | 2°29 | 10°25 | T 21 | |
| F 22 | 2 3 28 | 28°59'33 | 25°27 | 14°28 | 8°44 | 29°46 | 17°32 | 19°49 | 3°34 | 15°50 | 5°21 | 7°54 | 8°21 | 2°36 | 10°28 | F 22 | |
| S 23 | 2 7 24 | 29°58'57 | 7♌46 | 15°58 | 9°55 | 29°57 | 17°33 | 19°47 | 3°33 | 15°52 | 5°20 | 7°54 | 8°18 | 2°42 | 10°31 | S 23 | |
| S 24 | 2 11 21 | 0♎58'22 | 20°18 | 17°27 | 11° 6 | 0♌ 7 | 17°35 | 19°45 | 3°32 | 15°53 | 5°19 | 7°55 | 8°15 | 2°49 | 10°35 | S 24 | |
| M25 | 2 15 17 | 1°57'50 | 3♌ 4 | 18°56 | 12°17 | 0°16 | 17°38 | 19°42 | 3°31 | 15°55 | 5°18 | 7°56 | 8°12 | 2°56 | 10°38 | M25 | |
| T 26 | 2 19 14 | 2°57'19 | 16° 8 | 20°24 | 13°28 | 0°25 | 17°40 | 19°40 | 3°31 | 15°57 | 5°17 | 7°56 | 8° 9 | 3° 2 | 10°42 | T 26 | |
| W27 | 2 23 10 | 3°56'50 | 29°30 | 21°51 | 14°38 | 0°33 | 17°43 | 19°37 | 3°30 | 15°58 | 5°15 | 7°R56 | 8° 6 | 3° 9 | 10°45 | W27 | |
| T 28 | 2 27 7 | 4°56'22 | 13♋14 | 23°18 | 15°49 | 0°41 | 17°46 | 19°35 | 3°29 | 16° 0 | 5°14 | 7°56 | 8° 2 | 3°16 | 10°49 | T 28 | |
| F 29 | 2 31 3 | 5°55'56 | 27°19 | 24°43 | 17° 0 | 0°47 | 17°49 | 19°32 | 3°28 | 16° 1 | 5°13 | 7°56 | 7°59 | 3°22 | 10°53 | F 29 | |
| S 30 | 2 35 0 | 6°55'32 | 11♁45 | 26° 8 | 18°10 | 0°53 | 17°52 | 19°29 | 3°28 | 16° 3 | 5°12 | 7°56 | 7°56 | 3°29 | 10°57 | S 30 | |
| S 31 | 2 38 57 | 7♎55'10 | 26♁27 | 27♎32 | 19♌21 | 0♌58 | 17°55 | 19♏26 | 3♁27 | 16♎ 4 | 5♌11 | 7°D56 | 7♎53 | 3♌36 | 11♌ 0 | S 31 | |

Delta T = 19m36s

ASTRODIENST EPHEMERIS for the year 2590
geocentric

NOVEMBER 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|------|-----|
| M 1 | 2 42 53 | 8♈54'49 | 11♏22 | 28♈56 | 20♏31 | 1♉2 | 17♌59 | 19♍23 | 3♋26 | 16♎6 | 5♍10 | 7♈56 | 7♈50 | 3♎42 | 11♏4 | M 1 | |
| T 2 | 2 46 50 | 9°54'30 | 26°20 | 0♏18 | 21°42 | 1°5 | 18°2 | 19♈20 | 3♋26 | 16°7 | 5♍9 | 7°56 | 7°47 | 3°49 | 11°8 | T 2 | |
| W 3 | 2 50 46 | 10°54'13 | 11♏15 | 1°39 | 22°52 | 1°7 | 18°6 | 19°17 | 3°25 | 16°9 | 5°7 | 7°R56 | 7°43 | 3°56 | 11°12 | W 3 | |
| T 4 | 2 54 43 | 11°53'58 | 25°59 | 3°0 | 24°2 | 1°9 | 18°11 | 19°13 | 3°25 | 16°10 | 5°6 | 7°56 | 7°40 | 4°2 | 11°17 | T 4 | |
| F 5 | 2 58 39 | 12°53'45 | 10♈24 | 4°19 | 25°12 | 1°R10 | 18°15 | 19°10 | 3°25 | 16°12 | 5°5 | 7°56 | 7°37 | 4°9 | 11°21 | F 5 | |
| S 6 | 3 2 36 | 13°53'34 | 24°25 | 5°37 | 26°22 | 1°10 | 18°19 | 19°6 | 3°24 | 16°13 | 5°4 | 7°55 | 7°34 | 4°16 | 11°25 | S 6 | |
| S 7 | 3 6 32 | 14°53'26 | 8♉1 | 6°54 | 27°32 | 1°9 | 18°24 | 19°3 | 3°24 | 16°15 | 5°3 | 7°54 | 7°31 | 4°22 | 11°29 | S 7 | |
| M 8 | 3 10 29 | 15°53'19 | 21°11 | 8°9 | 28°42 | 1°7 | 18°29 | 18°59 | 3°24 | 16°16 | 5°2 | 7°54 | 7°27 | 4°29 | 11°34 | M 8 | |
| T 9 | 3 14 26 | 16°53'15 | 3♎57 | 9°23 | 29°52 | 1°4 | 18°34 | 18°56 | 3°24 | 16°17 | 5°1 | 7°53 | 7°24 | 4°36 | 11°38 | T 9 | |
| W10 | 3 18 22 | 17°53'12 | 16°23 | 10°35 | 1♉1 | 1°0 | 18°39 | 18°52 | 3°23 | 16°18 | 5°0 | 7°D53 | 7°21 | 4°42 | 11°43 | W10 | |
| T 11 | 3 22 19 | 18°53'12 | 28°32 | 11°46 | 2°11 | 0°56 | 18°44 | 18°48 | 3°23 | 16°20 | 4°59 | 7°53 | 7°18 | 4°49 | 11°47 | T 11 | |
| F 12 | 3 26 15 | 19°53'14 | 10♎30 | 12°54 | 3°20 | 0°50 | 18°50 | 18°44 | 3°D23 | 16°21 | 4°57 | 7°53 | 7°15 | 4°56 | 11°52 | F 12 | |
| S 13 | 3 30 12 | 20°53'18 | 22°21 | 14°0 | 4°30 | 0°44 | 18°56 | 18°40 | 3°23 | 16°22 | 4°56 | 7°55 | 7°12 | 5°2 | 11°57 | S 13 | |
| S 14 | 3 34 8 | 21°53'24 | 4♎9 | 15°4 | 5°39 | 0°37 | 19°2 | 18°36 | 3°23 | 16°23 | 4°55 | 7°56 | 7°8 | 5°9 | 12°1 | S 14 | |
| M15 | 3 38 5 | 22°53'32 | 15°59 | 16°5 | 6°48 | 0°28 | 19°8 | 18°32 | 3°23 | 16°24 | 4°54 | 7°57 | 7°5 | 5°16 | 12°6 | M15 | |
| T 16 | 3 42 1 | 23°53'41 | 27°54 | 17°2 | 7°57 | 0°19 | 19°14 | 18°28 | 3°24 | 16°25 | 4°53 | 7°58 | 7°2 | 5°22 | 12°11 | T 16 | |
| W17 | 3 45 58 | 24°53'53 | 9♈57 | 17°56 | 9°6 | 0°9 | 19°20 | 18°23 | 3°24 | 16°26 | 4°52 | 7°R58 | 6°59 | 5°29 | 12°16 | W17 | |
| T 18 | 3 49 55 | 25°54'07 | 22°11 | 18°46 | 10°15 | 29♈59 | 19°27 | 18°19 | 3°24 | 16°28 | 4°51 | 7°58 | 6°56 | 5°36 | 12°21 | T 18 | |
| F 19 | 3 53 51 | 26°54'23 | 4♏36 | 19°32 | 11°24 | 29°47 | 19°34 | 18°15 | 3°24 | 16°29 | 4°50 | 7°56 | 6°53 | 5°42 | 12°26 | F 19 | |
| S 20 | 3 57 48 | 27°54'40 | 17°13 | 20°13 | 12°33 | 29°35 | 19°40 | 18°10 | 3°25 | 16°30 | 4°49 | 7°54 | 6°49 | 5°49 | 12°31 | S 20 | |
| S 21 | 4 1 44 | 28°54'59 | 0♉4 | 20°48 | 13°41 | 29°21 | 19°47 | 18°6 | 3°25 | 16°30 | 4°48 | 7°51 | 6°46 | 5°56 | 12°36 | S 21 | |
| M22 | 4 5 41 | 29°55'19 | 13°9 | 21°17 | 14°50 | 29°7 | 19°55 | 18°1 | 3°26 | 16°31 | 4°47 | 7°47 | 6°43 | 6°2 | 12°41 | M22 | |
| T 23 | 4 9 37 | 0♏55'41 | 26°26 | 21°39 | 15°58 | 28°52 | 20°2 | 17°57 | 3°26 | 16°32 | 4°46 | 7°44 | 6°40 | 6°9 | 12°46 | T 23 | |
| W24 | 4 13 34 | 1°56'04 | 9♌58 | 21°53 | 17°6 | 28°37 | 20°9 | 17°52 | 3°27 | 16°33 | 4°45 | 7°41 | 6°37 | 6°16 | 12°52 | W24 | |
| T 25 | 4 17 30 | 2°56'28 | 23°42 | 21°R59 | 18°14 | 28°20 | 20°17 | 17°48 | 3°27 | 16°34 | 4°44 | 7°40 | 6°33 | 6°22 | 12°57 | T 25 | |
| F 26 | 4 21 27 | 3°56'54 | 7♋39 | 21°56 | 19°22 | 28°3 | 20°25 | 17°43 | 3°28 | 16°35 | 4°43 | 7°D40 | 6°30 | 6°29 | 13°2 | F 26 | |
| S 27 | 4 25 24 | 4°57'21 | 21°49 | 21°43 | 20°30 | 27°45 | 20°33 | 17°38 | 3°29 | 16°35 | 4°42 | 7°40 | 6°27 | 6°36 | 13°8 | S 27 | |
| S 28 | 4 29 20 | 5°57'49 | 6♏9 | 21°20 | 21°37 | 27°27 | 20°41 | 17°33 | 3°30 | 16°36 | 4°41 | 7°42 | 6°24 | 6°42 | 13°13 | S 28 | |
| M29 | 4 33 17 | 6°58'19 | 20°37 | 20°47 | 22°44 | 27°8 | 20°49 | 17°29 | 3°30 | 16°37 | 4°40 | 7°43 | 6°21 | 6°49 | 13°19 | M29 | |
| T 30 | 4 37 13 | 7°58'49 | 5♉9 | 20°3 | 23♉52 | 26♈48 | 20°58 | 17♈24 | 3♋31 | 16♎37 | 4♉39 | 7°R44 | 6♈18 | 6°56 | 13♉24 | T 30 | |

Delta T = 19m36s

DECEMBER 2590

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|--------|-------|--------|------|--------|-------|-------|------|-------|-------|------|-----|
| W 1 | 4 41 10 | 8♏59'22 | 19♏41 | 19°R 8 | 24♉59 | 26°R28 | 21°56 | 17°R19 | 3♋32 | 16♎38 | 4°R38 | 7°R44 | 6♈14 | 7♎2 | 13♏30 | W 1 | |
| T 2 | 4 45 6 | 9°59'55 | 4♈6 | 18°5 | 26°5 | 26♈8 | 21°15 | 17♈14 | 3°33 | 16°39 | 4♉37 | 7♈42 | 6°11 | 7°9 | 13°35 | T 2 | |
| F 3 | 4 49 3 | 11°0'30 | 18°20 | 16°53 | 27°12 | 25°47 | 21°24 | 17°9 | 3°34 | 16°39 | 4°36 | 7°38 | 6°8 | 7°16 | 13°41 | F 3 | |
| S 4 | 4 52 59 | 12°1'06 | 2♉16 | 15°36 | 28°18 | 25°25 | 21°33 | 17°4 | 3°35 | 16°40 | 4°35 | 7°33 | 6°5 | 7°22 | 13°46 | S 4 | |
| S 5 | 4 56 56 | 13°1'44 | 15°51 | 14°15 | 29°24 | 25°3 | 21°42 | 16°59 | 3°37 | 16°40 | 4°35 | 7°27 | 6°2 | 7°29 | 13°52 | S 5 | |
| M 6 | 5 0 53 | 14°2'24 | 29°3 | 12°52 | 0♏30 | 24°41 | 21°51 | 16°55 | 3°38 | 16°41 | 4°34 | 7°21 | 5°59 | 7°36 | 13°58 | M 6 | |
| T 7 | 5 4 49 | 15°3'04 | 11♎52 | 11°32 | 1°36 | 24°19 | 22°0 | 16°50 | 3°39 | 16°41 | 4°33 | 7°15 | 5°55 | 7°42 | 14°4 | T 7 | |
| W 8 | 5 8 46 | 16°3'47 | 24°21 | 10°16 | 2°42 | 23°56 | 22°10 | 16°45 | 3°40 | 16°42 | 4°32 | 7°11 | 5°52 | 7°49 | 14°9 | W 8 | |
| T 9 | 5 12 42 | 17°4'30 | 6♎33 | 9°6 | 3°47 | 23°34 | 22°19 | 16°40 | 3°42 | 16°42 | 4°31 | 7°9 | 5°49 | 7°56 | 14°15 | T 9 | |
| F 10 | 5 16 39 | 18°5'16 | 18°32 | 8°5 | 4°52 | 23°11 | 22°29 | 16°35 | 3°43 | 16°42 | 4°31 | 7°D 8 | 5°46 | 8°2 | 14°21 | F 10 | |
| S 11 | 5 20 35 | 19°6'02 | 0♎23 | 7°15 | 5°57 | 22°48 | 22°39 | 16°30 | 3°44 | 16°42 | 4°30 | 7°9 | 5°43 | 8°9 | 14°27 | S 11 | |
| S 12 | 5 24 32 | 20°6'51 | 12°11 | 6°35 | 7°1 | 22°25 | 22°49 | 16°25 | 3°46 | 16°43 | 4°29 | 7°10 | 5°39 | 8°15 | 14°33 | S 12 | |
| M13 | 5 28 28 | 21°7'40 | 24°2 | 6°7 | 8°6 | 22°2 | 22°59 | 16°20 | 3°47 | 16°43 | 4°28 | 7°12 | 5°36 | 8°22 | 14°39 | M13 | |
| T 14 | 5 32 25 | 22°8'31 | 6♈0 | 5°51 | 9°10 | 21°39 | 23°9 | 16°15 | 3°49 | 16°43 | 4°28 | 7°R13 | 5°33 | 8°29 | 14°45 | T 14 | |
| W15 | 5 36 22 | 23°9'23 | 18°10 | 5°D46 | 10°13 | 21°16 | 23°19 | 16°10 | 3°51 | 16°43 | 4°27 | 7°12 | 5°30 | 8°35 | 14°51 | W15 | |
| T 16 | 5 40 18 | 24°10'17 | 0♏34 | 5°51 | 11°17 | 20°53 | 23°30 | 16°6 | 3°52 | 16°43 | 4°26 | 7°9 | 5°27 | 8°42 | 14°57 | T 16 | |
| F 17 | 5 44 15 | 25°11'11 | 13°15 | 6°5 | 12°20 | 20°31 | 23°40 | 16°1 | 3°54 | 16°43 | 4°25 | 7°4 | 5°24 | 8°49 | 15°3 | F 17 | |
| S 18 | 5 48 11 | 26°12'07 | 26°14 | 6°29 | 13°23 | 20°9 | 23°51 | 15°56 | 3°56 | 16°43 | 4°25 | 6°57 | 5°20 | 8°55 | 15°9 | S 18 | |
| S 19 | 5 52 8 | 27°13'04 | 9♉29 | 7°1 | 14°25 | 19°47 | 24°2 | 15°51 | 3°57 | 16°R43 | 4°24 | 6°48 | 5°17 | 9°2 | 15°15 | S 19 | |
| M20 | 5 56 4 | 28°14'01 | 22°59 | 7°39 | 15°28 | 19°26 | 24°12 | 15°46 | 3°59 | 16°43 | 4°24 | 6°39 | 5°14 | 9°9 | 15°21 | M20 | |
| T 21 | 6 0 1 | 29°15'00 | 6♌42 | 8°25 | 16°29 | 19°5 | 24°23 | 15°42 | 4°1 | 16°43 | 4°23 | 6°30 | 5°11 | 9°15 | 15°27 | T 21 | |
| W22 | 6 3 58 | 0♉15'59 | 20°34 | 9°15 | 17°31 | 18°45 | 24°34 | 15°37 | 4°3 | 16°43 | 4°22 | 6°22 | 5°8 | 9°22 | 15°33 | W22 | |
| T 23 | 6 7 54 | 1°16'58 | 4♋32 | 10°11 | 18°32 | 18°25 | 24°46 | 15°32 | 4°5 | 16°43 | 4°22 | 6°17 | 5°5 | 9°29 | 15°39 | T 23 | |
| F 24 | 6 11 51 | 2°17'58 | 18°35 | 11°11 | 19°32 | 18°5 | 24°57 | 15°28 | 4°7 | 16°43 | 4°21 | 6°14 | 5°1 | 9°35 | 15°46 | F 24 | |
| S 25 | 6 15 47 | 3°18'58 | 2♏40 | 12°15 | 20°33 | 17°47 | 25°8 | 15°23 | 4°9 | 16°43 | 4°21 | 6°D13 | 4°58 | 9°42 | 15°52 | S 25 | |
| S 26 | 6 19 44 | 4°19'59 | 16°46 | 13°22 | 21°32 | 17°28 | 25°20 | 15°19 | 4°11 | 16°43 | 4°20 | 6°13 | 4°55 | 9°49 | 15°58 | S 26 | |
| M27 | 6 23 40 | 5°21'00 | 0♉53 | 14°32 | 22°32 | 17°11 | 25°31 | 15°14 | 4°13 | 16°42 | 4°20 | 6°R14 | 4°52 | 9°55 | 16°4 | M27 | |
| T 28 | 6 27 37 | 6°22'02 | 14°59 | 15°45 | 23°31 | 16°54 | 25°43 | 15°10 | 4°16 | 16°42 | 4°19 | 6°14 | 4°49 | 10°2 | 16°10 | T 28 | |
| W29 | 6 31 33 | 7°23'03 | 29°3 | 17°0 | 24°29 | 16°38 | 25°55 | 15°5 | 4°18 | 16°42 | 4°19 | 6°12 | 4°45 | 10°9 | 16°16 | W29 | |
| T 30 | 6 35 30 | 8°24'06 | 13♈1 | 18°17 | 25°27 | 16°22 | 26°7 | 15°1 | 4°20 | 16°41 | 4°19 | 6°7 | 4°42 | 10°15 | 16°23 | T 30 | |
| F 31 | 6 39 27 | 9♉25'09 | 26♈50 | 19♏35 | 26♌24 | 16♈8 | 26♌19 | 14♈57 | 4♋22 | 16♎41 | 4♉18 | 5♈59 | 4♈39 | 10♎22 | 16♉29 | F 31 | |

Delta T = 19m37s

ASTRODIENST EPHEMERIS for the year 2591
geocentric

JANUARY 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|--------|------|--------|-------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 6 43 23 | 10♌26'12 | 10♋28 | 20♊55 | 27♏21 | 15°R54 | 26♏31 | 14°R53 | 4♋25 | 16°R40 | 4°R18 | 5°R49 | 4♌36 | 10♌29 | 16♌35 | S 1 | | | | | | | | |
| S 2 | 6 47 20 | 11°27'15 | 23°50 | 22°16 | 28°17 | 15♌41 | 26°43 | 14♌48 | 4°27 | 16♌40 | 4♌17 | 5♌37 | 4°33 | 10°35 | 16°41 | S 2 | | | | | | | | |
| M 3 | 6 51 16 | 12°28'20 | 6♌54 | 23°39 | 29°13 | 15°28 | 26°55 | 14°44 | 4°29 | 16°39 | 4°17 | 5°25 | 4°30 | 10°42 | 16°48 | M 3 | | | | | | | | |
| T 4 | 6 55 13 | 13°29'24 | 19°40 | 25° 2 | 0♋ 8 | 15°17 | 27° 7 | 14°40 | 4°32 | 16°39 | 4°17 | 5°14 | 4°26 | 10°49 | 16°54 | T 4 | | | | | | | | |
| W 5 | 6 59 9 | 14°30'29 | 2♌ 8 | 26°27 | 1° 2 | 15° 6 | 27°19 | 14°36 | 4°34 | 16°38 | 4°16 | 5° 5 | 4°23 | 10°55 | 17° 0 | W 5 | | | | | | | | |
| T 6 | 7 3 6 | 15°31'35 | 14°19 | 27°52 | 1°56 | 14°56 | 27°32 | 14°33 | 4°37 | 16°38 | 4°16 | 4°57 | 4°20 | 11° 2 | 17° 6 | T 6 | | | | | | | | |
| F 7 | 7 7 2 | 16°32'41 | 26°18 | 29°18 | 2°49 | 14°47 | 27°44 | 14°29 | 4°39 | 16°37 | 4°16 | 4°53 | 4°17 | 11° 9 | 17°13 | F 7 | | | | | | | | |
| S 8 | 7 10 59 | 17°33'47 | 8♌ 9 | 0♌45 | 3°41 | 14°38 | 27°57 | 14°25 | 4°42 | 16°36 | 4°16 | 4°51 | 4°14 | 11°15 | 17°19 | S 8 | | | | | | | | |
| S 9 | 7 14 56 | 18°34'54 | 19°57 | 2°12 | 4°33 | 14°31 | 28°10 | 14°21 | 4°45 | 16°36 | 4°16 | 4°D51 | 4°11 | 11°22 | 17°25 | S 9 | | | | | | | | |
| M10 | 7 18 52 | 19°36'02 | 1♌47 | 3°40 | 5°24 | 14°24 | 28°22 | 14°18 | 4°47 | 16°35 | 4°15 | 4°R51 | 4° 7 | 11°29 | 17°31 | M10 | | | | | | | | |
| T 11 | 7 22 49 | 20°37'10 | 13°46 | 5° 9 | 6°14 | 14°18 | 28°35 | 14°14 | 4°50 | 16°34 | 4°15 | 4°51 | 4° 4 | 11°35 | 17°38 | T 11 | | | | | | | | |
| W12 | 7 26 45 | 21°38'18 | 25°58 | 6°38 | 7° 3 | 14°13 | 28°48 | 14°11 | 4°53 | 16°34 | 4°15 | 4°49 | 4° 1 | 11°42 | 17°44 | W12 | | | | | | | | |
| T 13 | 7 30 42 | 22°39'27 | 8♌28 | 8° 7 | 7°51 | 14° 8 | 29° 1 | 14° 8 | 4°55 | 16°33 | 4°15 | 4°44 | 3°58 | 11°49 | 17°50 | T 13 | | | | | | | | |
| F 14 | 7 34 38 | 23°40'35 | 21°19 | 9°37 | 8°39 | 14° 5 | 29°14 | 14° 4 | 4°58 | 16°32 | 4°15 | 4°37 | 3°55 | 11°55 | 17°56 | F 14 | | | | | | | | |
| S 15 | 7 38 35 | 24°41'44 | 4♌33 | 11° 7 | 9°25 | 14° 2 | 29°27 | 14° 1 | 5° 1 | 16°31 | 4°15 | 4°27 | 3°51 | 12° 2 | 18° 3 | S 15 | | | | | | | | |
| S 16 | 7 42 31 | 25°42'53 | 18° 9 | 12°38 | 10°11 | 14° 0 | 29°40 | 13°58 | 5° 4 | 16°30 | 4°15 | 4°16 | 3°48 | 12° 9 | 18° 9 | S 16 | | | | | | | | |
| M17 | 7 46 28 | 26°44'02 | 2♌ 5 | 14°10 | 10°56 | 13°59 | 29°53 | 13°55 | 5° 7 | 16°29 | 4°15 | 4° 3 | 3°45 | 12°15 | 18°15 | M17 | | | | | | | | |
| T 18 | 7 50 25 | 27°45'11 | 16°15 | 15°41 | 11°39 | 13°D59 | 0♋ 6 | 13°53 | 5°10 | 16°28 | 4°D15 | 3°50 | 3°42 | 12°22 | 18°21 | T 18 | | | | | | | | |
| W19 | 7 54 21 | 28°46'20 | 0♋35 | 17°14 | 12°21 | 14° 0 | 0°20 | 13°50 | 5°13 | 16°27 | 4°15 | 3°39 | 3°39 | 12°29 | 18°27 | W19 | | | | | | | | |
| T 20 | 7 58 18 | 29°47'28 | 14°59 | 18°46 | 13° 3 | 14° 1 | 0°33 | 13°47 | 5°16 | 16°26 | 4°15 | 3°31 | 3°36 | 12°35 | 18°34 | T 20 | | | | | | | | |
| F 21 | 8 2 14 | 0♌48'35 | 29°21 | 20°19 | 13°43 | 14° 3 | 0°47 | 13°45 | 5°19 | 16°25 | 4°15 | 3°26 | 3°32 | 12°42 | 18°40 | F 21 | | | | | | | | |
| S 22 | 8 6 11 | 1°49'42 | 13♌37 | 21°53 | 14°22 | 14° 6 | 1° 0 | 13°42 | 5°22 | 16°24 | 4°15 | 3°23 | 3°29 | 12°48 | 18°46 | S 22 | | | | | | | | |
| S 23 | 8 10 7 | 2°50'49 | 27°45 | 23°27 | 14°59 | 14° 9 | 1°14 | 13°40 | 5°25 | 16°23 | 4°15 | 3°23 | 3°26 | 12°55 | 18°52 | S 23 | | | | | | | | |
| M24 | 8 14 4 | 3°51'54 | 11♌44 | 25° 1 | 15°36 | 14°14 | 1°27 | 13°37 | 5°28 | 16°22 | 4°15 | 3°23 | 3°23 | 13° 2 | 18°58 | M24 | | | | | | | | |
| T 25 | 8 18 0 | 4°52'59 | 25°35 | 26°36 | 16°10 | 14°19 | 1°41 | 13°35 | 5°31 | 16°21 | 4°15 | 3°22 | 3°20 | 13° 8 | 19° 4 | T 25 | | | | | | | | |
| W26 | 8 21 57 | 5°54'04 | 9♌16 | 28°12 | 16°44 | 14°24 | 1°54 | 13°33 | 5°34 | 16°20 | 4°15 | 3°19 | 3°17 | 13°15 | 19°10 | W26 | | | | | | | | |
| T 27 | 8 25 54 | 6°55'08 | 22°49 | 29°47 | 17°16 | 14°31 | 2° 8 | 13°31 | 5°37 | 16°18 | 4°16 | 3°13 | 3°13 | 13°22 | 19°16 | T 27 | | | | | | | | |
| F 28 | 8 29 50 | 7°56'11 | 6♌13 | 1♌24 | 17°46 | 14°38 | 2°22 | 13°29 | 5°40 | 16°17 | 4°16 | 3° 4 | 3°10 | 13°28 | 19°22 | F 28 | | | | | | | | |
| S 29 | 8 33 47 | 8°57'13 | 19°26 | 3° 1 | 18°14 | 14°45 | 2°36 | 13°28 | 5°43 | 16°16 | 4°16 | 2°52 | 3° 7 | 13°35 | 19°28 | S 29 | | | | | | | | |
| S 30 | 8 37 43 | 9°58'14 | 2♌27 | 4°38 | 18°41 | 14°54 | 2°50 | 13°26 | 5°46 | 16°15 | 4°16 | 2°39 | 3° 4 | 13°42 | 19°34 | S 30 | | | | | | | | |
| M31 | 8 41 40 | 10°59'15 | 15♌14 | 6♌17 | 19♋ 6 | 15♌ 3 | 3♋ 3 | 13♌25 | 5♋50 | 16♌13 | 4♌17 | 2♌25 | 3♌ 1 | 13°48 | 19°40 | M31 | | | | | | | | |

Delta T = 19m37s

FEBRUARY 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|--------|-------|------|--------|------|--------|------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| T 1 | 8 45 36 | 12♌0'16 | 27♌48 | 7♌55 | 19♋30 | 15♌12 | 3♋17 | 13°R23 | 5♋53 | 16°R12 | 4♌17 | 2°R12 | 2♌57 | 13♌55 | 19♌46 | T 1 | | | | | | | | |
| W 2 | 8 49 33 | 13° 1'15 | 10♌ 8 | 9°35 | 19°51 | 15°23 | 3°31 | 13♌22 | 5°56 | 16♌11 | 4°17 | 2♌ 0 | 2°54 | 14° 2 | 19°52 | W 2 | | | | | | | | |
| T 3 | 8 53 29 | 14° 2'14 | 22°15 | 11°14 | 20°11 | 15°33 | 3°45 | 13°21 | 5°59 | 16° 9 | 4°18 | 1°51 | 2°51 | 14° 8 | 19°58 | T 3 | | | | | | | | |
| F 4 | 8 57 26 | 15° 3'12 | 4♌12 | 12°55 | 20°28 | 15°45 | 3°59 | 13°20 | 6° 3 | 16° 8 | 4°18 | 1°45 | 2°48 | 14°15 | 20° 4 | F 4 | | | | | | | | |
| S 5 | 9 1 23 | 16° 4'10 | 16° 1 | 14°36 | 20°44 | 15°57 | 4°13 | 13°19 | 6° 6 | 16° 7 | 4°18 | 1°42 | 2°45 | 14°22 | 20° 9 | S 5 | | | | | | | | |
| S 6 | 9 5 19 | 17° 5'08 | 27°48 | 16°18 | 20°57 | 16° 9 | 4°27 | 13°18 | 6° 9 | 16° 5 | 4°19 | 1°D41 | 2°42 | 14°28 | 20°15 | S 6 | | | | | | | | |
| M 7 | 9 9 16 | 18° 6'04 | 9♌37 | 18° 0 | 21° 8 | 16°22 | 4°42 | 13°17 | 6°13 | 16° 4 | 4°19 | 1°41 | 2°38 | 14°35 | 20°21 | M 7 | | | | | | | | |
| T 8 | 9 13 12 | 19° 7'00 | 21°34 | 19°44 | 21°17 | 16°36 | 4°56 | 13°16 | 6°16 | 16° 2 | 4°20 | 1°R41 | 2°35 | 14°42 | 20°27 | T 8 | | | | | | | | |
| W 9 | 9 17 9 | 20° 7'56 | 3♌45 | 21°27 | 21°23 | 16°50 | 5°10 | 13°16 | 6°19 | 16° 1 | 4°20 | 1°40 | 2°32 | 14°48 | 20°32 | W 9 | | | | | | | | |
| T 10 | 9 21 5 | 21° 8'51 | 16°14 | 23°12 | 21°27 | 17° 5 | 5°24 | 13°15 | 6°23 | 15°59 | 4°21 | 1°37 | 2°29 | 14°55 | 20°38 | T 10 | | | | | | | | |
| F 11 | 9 25 2 | 22° 9'45 | 29° 6 | 24°57 | 21°R29 | 17°20 | 5°38 | 13°15 | 6°26 | 15°58 | 4°21 | 1°32 | 2°26 | 15° 2 | 20°43 | F 11 | | | | | | | | |
| S 12 | 9 28 58 | 23°10'38 | 12♌24 | 26°42 | 21°28 | 17°35 | 5°53 | 13°15 | 6°29 | 15°56 | 4°22 | 1°24 | 2°22 | 15° 8 | 20°49 | S 12 | | | | | | | | |
| S 13 | 9 32 55 | 24°11'30 | 26°10 | 28°29 | 21°25 | 17°51 | 6° 7 | 13°D15 | 6°33 | 15°55 | 4°22 | 1°14 | 2°19 | 15°15 | 20°55 | S 13 | | | | | | | | |
| M14 | 9 36 52 | 25°12'22 | 10♌20 | 0♋16 | 21°19 | 18° 8 | 6°21 | 13°15 | 6°36 | 15°53 | 4°23 | 1° 3 | 2°16 | 15°21 | 21° 0 | M14 | | | | | | | | |
| T 15 | 9 40 48 | 26°13'12 | 24°52 | 2° 3 | 21°11 | 18°25 | 6°36 | 13°15 | 6°40 | 15°52 | 4°24 | 0°53 | 2°13 | 15°28 | 21° 5 | T 15 | | | | | | | | |
| W16 | 9 44 45 | 27°14'02 | 9♋37 | 3°51 | 21° 1 | 18°43 | 6°50 | 13°15 | 6°43 | 15°50 | 4°24 | 0°43 | 2°10 | 15°35 | 21°11 | W16 | | | | | | | | |
| T 17 | 9 48 41 | 28°14'49 | 24°27 | 5°39 | 20°47 | 19° 0 | 7° 4 | 13°16 | 6°47 | 15°49 | 4°25 | 0°36 | 2° 7 | 15°41 | 21°16 | T 17 | | | | | | | | |
| F 18 | 9 52 38 | 29°15'36 | 9♌14 | 7°27 | 20°32 | 19°19 | 7°19 | 13°16 | 6°50 | 15°47 | 4°26 | 0°32 | 2° 3 | 15°48 | 21°21 | F 18 | | | | | | | | |
| S 19 | 9 56 34 | 0♋16'21 | 23°52 | 9°15 | 20°14 | 19°38 | 7°33 | 13°17 | 6°53 | 15°46 | 4°26 | 0°D30 | 2° 0 | 15°55 | 21°27 | S 19 | | | | | | | | |
| S 20 | 10 0 31 | 1°17'05 | 8♌16 | 11° 4 | 19°53 | 19°57 | 7°47 | 13°18 | 6°57 | 15°44 | 4°27 | 0°30 | 1°57 | 16° 1 | 21°32 | S 20 | | | | | | | | |
| M21 | 10 4 27 | 2°17'47 | 22°23 | 12°52 | 19°30 | 20°16 | 8° 2 | 13°18 | 7° 0 | 15°42 | 4°28 | 0°31 | 1°54 | 16° 8 | 21°37 | M21 | | | | | | | | |
| T 22 | 10 8 24 | 3°18'28 | 6♌13 | 14°40 | 19° 5 | 20°36 | 8°16 | 13°19 | 7° 4 | 15°41 | 4°28 | 0°R31 | 1°51 | 16°15 | 21°42 | T 22 | | | | | | | | |
| W23 | 10 12 21 | 4°19'06 | 19°47 | 16°27 | 18°38 | 20°57 | 8°31 | 13°20 | 7° 7 | 15°39 | 4°29 | 0°30 | 1°48 | 16°21 | 21°47 | W23 | | | | | | | | |
| T 24 | 10 16 17 | 5°19'44 | 3♌ 5 | 18°13 | 18° 9 | 21°17 | 8°45 | 13°22 | 7°11 | 15°37 | 4°30 | 0°26 | 1°44 | 16°28 | 21°52 | T 24 | | | | | | | | |
| F 25 | 10 20 14 | 6°20'19 | 16° 9 | 19°58 | 17°38 | 21°38 | 9° 0 | 13°23 | 7°14 | 15°36 | 4°31 | 0°20 | 1°41 | 16°35 | 21°57 | F 25 | | | | | | | | |
| S 26 | 10 24 10 | 7°20'53 | 29° 1 | 21°41 | 17° 6 | 22° 0 | 9°14 | 13°24 | 7°18 | 15°34 | 4°32 | 0°12 | 1°38 | 16°41 | 22° 2 | S 26 | | | | | | | | |
| S 27 | 10 28 7 | 8°21'25 | 11♌41 | 23°22 | 16°32 | 22°21 | 9°28 | 13°26 | 7°21 | 15°32 | 4°32 | 0° 3 | 1°35 | 16°48 | 22° 7 | S 27 | | | | | | | | |
| M28 | 10 32 3 | 9♋21'56 | 24♌10 | 25♋ 1 | 15♋57 | 22♌43 | 9♋43 | 13♌27 | 7♋25 | 15♌31 | 4♌33 | 29♌53 | 1♌32 | 16°55 | 22°12 | M28 | | | | | | | | |

Delta T = 19m37s

ASTRODIENST EPHEMERIS for the year 2591
geocentric

MARCH 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|-------|------|--------|------|--------|--------|--------|-------|------|
| T 1 | 10 36 0 | 10♋22'25 | 6♎28 | 26♋36 | 15°R21 | 23♏6 | 9♋57 | 13♏29 | 7♋28 | 15°R29 | 4♋34 | 29°R44 | 1♏28 | 17♏1 | 22♏17 | T 1 |
| W 2 | 10 39 56 | 11°22'52 | 18°36 | 28° 8 | 14♋44 | 23°28 | 10°12 | 13°31 | 7°31 | 15°R27 | 4°35 | 29♏35 | 1°25 | 17° 8 | 22°21 | W 2 |
| T 3 | 10 43 53 | 12°23'18 | 0♏35 | 29°35 | 14° 6 | 23°51 | 10°26 | 13°33 | 7°35 | 15°26 | 4°36 | 29°29 | 1°22 | 17°15 | 22°26 | T 3 |
| F 4 | 10 47 49 | 13°23'43 | 12°28 | 0♏58 | 13°29 | 24°15 | 10°41 | 13°35 | 7°38 | 15°24 | 4°37 | 29°25 | 1°19 | 17°21 | 22°30 | F 4 |
| S 5 | 10 51 46 | 14°24'06 | 24°15 | 2°15 | 12°51 | 24°38 | 10°55 | 13°37 | 7°42 | 15°22 | 4°38 | 29°D24 | 1°16 | 17°28 | 22°35 | S 5 |
| S 6 | 10 55 43 | 15°24'27 | 6♏ 2 | 3°25 | 12°14 | 25° 2 | 11°10 | 13°39 | 7°45 | 15°21 | 4°39 | 29°24 | 1°13 | 17°34 | 22°39 | S 6 |
| M 7 | 10 59 39 | 16°24'47 | 17°51 | 4°29 | 11°37 | 25°26 | 11°24 | 13°42 | 7°49 | 15°19 | 4°40 | 29°25 | 1° 9 | 17°41 | 22°44 | M 7 |
| T 8 | 11 3 36 | 17°25'06 | 29°48 | 5°26 | 11° 2 | 25°51 | 11°38 | 13°44 | 7°52 | 15°17 | 4°41 | 29°26 | 1° 6 | 17°48 | 22°48 | T 8 |
| W 9 | 11 7 32 | 18°25'23 | 11♌56 | 6°14 | 10°27 | 26°15 | 11°53 | 13°47 | 7°56 | 15°16 | 4°42 | 29°28 | 1° 3 | 17°54 | 22°53 | W 9 |
| T 10 | 11 11 29 | 19°25'39 | 24°22 | 6°54 | 9°53 | 26°40 | 12° 7 | 13°49 | 7°59 | 15°14 | 4°43 | 29°R28 | 1° 0 | 18° 1 | 22°57 | T 10 |
| F 11 | 11 15 25 | 20°25'54 | 7♏10 | 7°25 | 9°21 | 27° 5 | 12°22 | 13°52 | 8° 2 | 15°12 | 4°44 | 29°26 | 0°57 | 18° 8 | 23° 1 | F 11 |
| S 12 | 11 19 22 | 21°26'07 | 20°24 | 7°47 | 8°51 | 27°31 | 12°36 | 13°55 | 8° 6 | 15°11 | 4°45 | 29°23 | 0°54 | 18°14 | 23° 5 | S 12 |
| S 13 | 11 23 18 | 22°26'18 | 4♏ 6 | 8° 0 | 8°22 | 27°56 | 12°50 | 13°58 | 8° 9 | 15° 9 | 4°46 | 29°19 | 0°50 | 18°21 | 23° 9 | S 13 |
| M14 | 11 27 15 | 23°26'28 | 18°17 | 8°R 3 | 7°56 | 28°22 | 13° 5 | 14° 1 | 8°13 | 15° 7 | 4°47 | 29°13 | 0°47 | 18°28 | 23°13 | M14 |
| T 15 | 11 31 12 | 24°26'37 | 2♋52 | 7°57 | 7°31 | 28°48 | 13°19 | 14° 4 | 8°16 | 15° 6 | 4°48 | 29° 8 | 0°44 | 18°34 | 23°17 | T 15 |
| W16 | 11 35 8 | 25°26'43 | 17°48 | 7°42 | 7° 9 | 29°15 | 13°33 | 14° 8 | 8°19 | 15° 4 | 4°49 | 29° 3 | 0°41 | 18°41 | 23°21 | W16 |
| T 17 | 11 39 5 | 26°26'48 | 2♏54 | 7°18 | 6°49 | 29°41 | 13°48 | 14°11 | 8°23 | 15° 2 | 4°50 | 28°59 | 0°38 | 18°48 | 23°25 | T 17 |
| F 18 | 11 43 1 | 27°26'51 | 18° 2 | 6°46 | 6°31 | 0♏ 8 | 14° 2 | 14°15 | 8°26 | 15° 1 | 4°52 | 28°57 | 0°34 | 18°54 | 23°28 | F 18 |
| S 19 | 11 46 58 | 28°26'52 | 3♏ 2 | 6° 8 | 6°16 | 0°35 | 14°16 | 14°18 | 8°29 | 14°59 | 4°53 | 28°D57 | 0°31 | 19° 1 | 23°32 | S 19 |
| S 20 | 11 50 54 | 29°26'51 | 17°47 | 5°23 | 6° 3 | 1° 2 | 14°30 | 14°22 | 8°33 | 14°58 | 4°54 | 28°58 | 0°28 | 19° 8 | 23°35 | S 20 |
| M21 | 11 54 51 | 0♏26'48 | 2♏11 | 4°33 | 5°53 | 1°30 | 14°45 | 14°26 | 8°36 | 14°56 | 4°55 | 28°59 | 0°25 | 19°14 | 23°39 | M21 |
| T 22 | 11 58 47 | 1°26'43 | 16°13 | 3°39 | 5°45 | 1°57 | 14°59 | 14°29 | 8°39 | 14°54 | 4°56 | 29° 1 | 0°22 | 19°21 | 23°42 | T 22 |
| W23 | 12 2 44 | 2°26'35 | 29°51 | 2°43 | 5°39 | 2°25 | 15°13 | 14°33 | 8°42 | 14°53 | 4°57 | 29°R 1 | 0°19 | 19°27 | 23°46 | W23 |
| T 24 | 12 6 41 | 3°26'26 | 13♏ 8 | 1°45 | 5°36 | 2°53 | 15°27 | 14°37 | 8°46 | 14°51 | 4°59 | 29° 1 | 0°15 | 19°34 | 23°49 | T 24 |
| F 25 | 12 10 37 | 4°26'14 | 2°6 4 | 0°48 | 5°D36 | 3°21 | 15°41 | 14°42 | 8°49 | 14°50 | 5° 0 | 28°59 | 0°12 | 19°41 | 23°52 | F 25 |
| S 26 | 12 14 34 | 5°26'00 | 8♏44 | 29♋51 | 5°38 | 3°49 | 15°55 | 14°46 | 8°52 | 14°48 | 5° 1 | 28°57 | 0° 9 | 19°47 | 23°55 | S 26 |
| S 27 | 12 18 30 | 6°25'43 | 21°10 | 28°57 | 5°42 | 4°18 | 16° 9 | 14°50 | 8°55 | 14°47 | 5° 2 | 28°53 | 0° 6 | 19°54 | 23°58 | S 27 |
| M28 | 12 22 27 | 7°25'25 | 3♎23 | 28° 7 | 5°48 | 4°47 | 16°23 | 14°55 | 8°58 | 14°45 | 5° 4 | 28°50 | 0° 3 | 20° 1 | 24° 1 | M28 |
| T 29 | 12 26 23 | 8°25'04 | 15°28 | 27°20 | 5°57 | 5°15 | 16°37 | 14°59 | 9° 1 | 14°43 | 5° 5 | 28°46 | 29°♏59 | 20° 7 | 24° 4 | T 29 |
| W30 | 12 30 20 | 9°24'42 | 27°25 | 26°39 | 6° 8 | 5°44 | 16°51 | 15° 4 | 9° 5 | 14°42 | 5° 6 | 28°44 | 29°56 | 20°14 | 24° 7 | W30 |
| T 31 | 12 34 16 | 10°24'17 | 9♏17 | 26♋ 2 | 6♋21 | 6♏13 | 17♋ 5 | 15♏ 8 | 9♋ 8 | 14♎41 | 5♏ 7 | 28♏41 | 29°♏53 | 20°♏21 | 24♏10 | T 31 |

Delta T = 19m38s

APRIL 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|--------|------|--------|--------|--------|-------|------|
| F 1 | 12 38 13 | 11°23'50 | 21♏ 6 | 25°R32 | 6♋36 | 6♏43 | 17♋19 | 15♏13 | 9♋11 | 14°R39 | 5♏ 9 | 28°R40 | 29°♏50 | 20°♏27 | 24♏12 | F 1 |
| S 2 | 12 42 9 | 12°23'21 | 2♏53 | 25♋ 7 | 6°53 | 7°12 | 17°33 | 15°18 | 9°14 | 14°R38 | 5°10 | 28°D40 | 29°47 | 20°34 | 24°15 | S 2 |
| S 3 | 12 46 6 | 13°22'51 | 14°42 | 24°49 | 7°12 | 7°42 | 17°46 | 15°23 | 9°17 | 14°36 | 5°11 | 28♏41 | 29°44 | 20°41 | 24°17 | S 3 |
| M 4 | 12 50 3 | 14°22'19 | 26°35 | 24°36 | 7°33 | 8°11 | 18° 0 | 15°28 | 9°20 | 14°35 | 5°13 | 28°42 | 29°40 | 20°47 | 24°20 | M 4 |
| T 5 | 12 53 59 | 15°21'44 | 8♌35 | 24°29 | 7°55 | 8°41 | 18°14 | 15°33 | 9°23 | 14°33 | 5°14 | 28°43 | 29°37 | 20°54 | 24°22 | T 5 |
| W 6 | 12 57 56 | 16°21'09 | 20°47 | 24°D29 | 8°20 | 9°11 | 18°27 | 15°38 | 9°26 | 14°32 | 5°15 | 28°45 | 29°34 | 21° 1 | 24°24 | W 6 |
| T 7 | 13 1 52 | 17°20'31 | 3♏13 | 24°33 | 8°46 | 9°41 | 18°41 | 15°43 | 9°29 | 14°31 | 5°17 | 28°45 | 29°31 | 21° 7 | 24°27 | T 7 |
| F 8 | 13 5 49 | 18°19'51 | 15°58 | 24°44 | 9°14 | 10°12 | 18°54 | 15°49 | 9°32 | 14°29 | 5°18 | 28°R46 | 29°28 | 21°14 | 24°29 | F 8 |
| S 9 | 13 9 45 | 19°19'10 | 29° 6 | 24°59 | 9°43 | 10°42 | 19° 8 | 15°54 | 9°34 | 14°28 | 5°19 | 28°46 | 29°25 | 21°20 | 24°31 | S 9 |
| S 10 | 13 13 42 | 20°18'27 | 12♏39 | 25°20 | 10°14 | 11°12 | 19°21 | 15°59 | 9°37 | 14°27 | 5°21 | 28°45 | 29°21 | 21°27 | 24°33 | S 10 |
| M11 | 13 17 38 | 21°17'43 | 26°39 | 25°45 | 10°47 | 11°43 | 19°35 | 16° 5 | 9°40 | 14°25 | 5°22 | 28°44 | 29°18 | 21°34 | 24°35 | M11 |
| T 12 | 13 21 35 | 22°16'56 | 11♋ 5 | 26°15 | 11°20 | 12°14 | 19°48 | 16°10 | 9°43 | 14°24 | 5°23 | 28°44 | 29°15 | 21°40 | 24°36 | T 12 |
| W13 | 13 25 32 | 23°16'08 | 25°53 | 26°49 | 11°56 | 12°45 | 20° 1 | 16°16 | 9°46 | 14°23 | 5°25 | 28°43 | 29°12 | 21°47 | 24°38 | W13 |
| T 14 | 13 29 28 | 24°15'18 | 10♏58 | 27°27 | 12°32 | 13°16 | 20°15 | 16°22 | 9°48 | 14°22 | 5°26 | 28°42 | 29° 9 | 21°54 | 24°40 | T 14 |
| F 15 | 13 33 25 | 25°14'26 | 26°10 | 28° 9 | 13°10 | 13°47 | 20°28 | 16°28 | 9°51 | 14°20 | 5°27 | 28°D42 | 29° 5 | 22° 0 | 24°41 | F 15 |
| S 16 | 13 37 21 | 26°13'32 | 11♏20 | 28°55 | 13°48 | 14°18 | 20°41 | 16°33 | 9°54 | 14°19 | 5°29 | 28°42 | 29° 2 | 22° 7 | 24°43 | S 16 |
| S 17 | 13 41 18 | 27°12'36 | 26°20 | 29°44 | 14°28 | 14°49 | 20°54 | 16°39 | 9°56 | 14°18 | 5°30 | 28°42 | 28°59 | 22°14 | 24°44 | S 17 |
| M18 | 13 45 14 | 28°11'38 | 11♏ 0 | 0♏36 | 15° 9 | 15°21 | 21° 7 | 16°45 | 9°59 | 14°17 | 5°32 | 28°43 | 28°56 | 22°20 | 24°45 | M18 |
| T 19 | 13 49 11 | 29°10'38 | 25°16 | 1°32 | 15°51 | 15°52 | 21°20 | 16°51 | 10° 1 | 14°16 | 5°33 | 28°R43 | 28°53 | 22°27 | 24°46 | T 19 |
| W20 | 13 53 7 | 0♏ 9'35 | 9♏ 6 | 2°30 | 16°34 | 16°24 | 21°33 | 16°58 | 10° 4 | 14°15 | 5°34 | 28°43 | 28°50 | 22°34 | 24°48 | W20 |
| T 21 | 13 57 4 | 1° 8'30 | 22°29 | 3°31 | 17°18 | 16°55 | 21°45 | 17° 4 | 10° 6 | 14°14 | 5°36 | 28°42 | 28°46 | 22°40 | 24°49 | T 21 |
| F 22 | 14 1 1 | 2° 7'23 | 5♏28 | 4°35 | 18° 3 | 17°27 | 21°58 | 17°10 | 10° 9 | 14°13 | 5°37 | 28°D42 | 28°43 | 22°47 | 24°50 | F 22 |
| S 23 | 14 4 57 | 3° 6'13 | 18° 5 | 5°41 | 18°49 | 17°59 | 22°11 | 17°16 | 10°11 | 14°12 | 5°39 | 28°43 | 28°40 | 22°53 | 24°50 | S 23 |
| S 24 | 14 8 54 | 4° 5'02 | 0♎24 | 6°50 | 19°36 | 18°31 | 22°23 | 17°23 | 10°14 | 14°11 | 5°40 | 28°43 | 28°37 | 23° 0 | 24°51 | S 24 |
| M25 | 14 12 50 | 5° 3'48 | 12°30 | 8° 1 | 20°23 | 19° 3 | 22°36 | 17°29 | 10°16 | 14°10 | 5°41 | 28°44 | 28°34 | 23° 7 | 24°52 | M25 |
| T 26 | 14 16 47 | 6° 2'32 | 24°27 | 9°15 | 21°11 | 19°35 | 22°48 | 17°36 | 10°18 | 14° 9 | 5°43 | 28°44 | 28°31 | 23°13 | 24°52 | T 26 |
| W27 | 14 20 43 | 7° 1'13 | 6♏17 | 10°31 | 22° 0 | 20° 8 | 23° 1 | 17°42 | 10°21 | 14° 8 | 5°44 | 28°45 | 28°27 | 23°20 | 24°53 | W27 |
| T 28 | 14 24 40 | 7°59'53 | 18° 5 | 11°48 | 22°50 | 20°40 | 23°13 | 17°49 | 10°23 | 14° 7 | 5°46 | 28°46 | 28°24 | 23°27 | 24°53 | T 28 |
| F 29 | 14 28 36 | 8°58'31 | 29°52 | 13° 8 | 23°41 | 21°12 | 23°25 | 17°55 | 10°25 | 14° 6 | 5°47 | 28°R46 | 28°21 | 23°33 | 24°54 | F 29 |
| S 30 | 14 32 33 | 9♏57'07 | 11♏42 | 14°R30 | 24♋32 | 21♏45 | 23♋37 | 18♏ 2 | 10♋27 | 14♎ 6 | 5♏48 | 28♏45 | 28♏18 | 23♏40 | 24♏54 | S 30 |

Delta T = 19m38s

ASTRODIENST EPHEMERIS for the year 2591
geocentric

MAY 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|------|--------|-------|-------|--------|------|-----|
| S 1 | 14 36 30 | 10♌55'41 | 23♋37 | 15♍54 | 25♋24 | 22♉18 | 23♋49 | 18♏9 | 10♋29 | 14♏5 | 5♌50 | 28♏R45 | 28♏15 | 23♏47 | 24♌54 | S 1 | |
| M 2 | 14 40 26 | 11°54'13 | 5♌38 | 17°19 | 26°16 | 22°50 | 24°1 | 18°15 | 10°31 | 14♏4 | 5°51 | 28♏43 | 28°11 | 23°53 | 24♏R54 | M 2 | |
| T 3 | 14 44 23 | 12°52'43 | 17°48 | 18°47 | 27°9 | 23°23 | 24°13 | 18°22 | 10°33 | 14°3 | 5°52 | 28°41 | 28°8 | 24°0 | 24°54 | T 3 | |
| W 4 | 14 48 19 | 13°51'12 | 0♌9 | 20°17 | 28°3 | 23°56 | 24°25 | 18°29 | 10°35 | 14°3 | 5°54 | 28°39 | 28°5 | 24°7 | 24°54 | W 4 | |
| T 5 | 14 52 16 | 14°49'39 | 12°43 | 21°48 | 28°57 | 24°29 | 24°37 | 18°36 | 10°37 | 14°2 | 5°55 | 28°37 | 28°2 | 24°13 | 24°54 | T 5 | |
| F 6 | 14 56 12 | 15°48'04 | 25°32 | 23°21 | 29°52 | 25°2 | 24°48 | 18°43 | 10°39 | 14°1 | 5°57 | 28°35 | 27°59 | 24°20 | 24°54 | F 6 | |
| S 7 | 15 0 9 | 16°46'28 | 8♌40 | 24°56 | 0♍47 | 25°35 | 25°0 | 18°50 | 10°41 | 14°1 | 5°58 | 28°34 | 27°56 | 24°26 | 24°53 | S 7 | |
| S 8 | 15 4 5 | 17°44'50 | 22°7 | 26°33 | 1°43 | 26°8 | 25°11 | 18°57 | 10°43 | 14°0 | 5°59 | 28°D34 | 27°52 | 24°33 | 24°53 | S 8 | |
| M 9 | 15 8 2 | 18°43'11 | 5♋56 | 28°12 | 2°39 | 26°41 | 25°23 | 19°4 | 10°45 | 14°0 | 6°1 | 28°35 | 27°49 | 24°40 | 24°52 | M 9 | |
| T 10 | 15 11 59 | 19°41'30 | 20°7 | 29°52 | 3°36 | 27°14 | 25°34 | 19°11 | 10°46 | 13°59 | 6°2 | 28°36 | 27°46 | 24°46 | 24°52 | T 10 | |
| W11 | 15 15 55 | 20°39'48 | 4♍39 | 1♌35 | 4°33 | 27°47 | 25°45 | 19°18 | 10°48 | 13°59 | 6°3 | 28°37 | 27°43 | 24°53 | 24°51 | W11 | |
| T 12 | 15 19 52 | 21°38'05 | 19°27 | 3°19 | 5°31 | 28°21 | 25°56 | 19°25 | 10°50 | 13°58 | 6°5 | 28°38 | 27°40 | 25°0 | 24°50 | T 12 | |
| F 13 | 15 23 48 | 22°36'19 | 4♌27 | 5°5 | 6°29 | 28°54 | 26°7 | 19°33 | 10°51 | 13°58 | 6°6 | 28°R38 | 27°36 | 25°6 | 24°49 | F 13 | |
| S 14 | 15 27 45 | 23°34'33 | 19°30 | 6°52 | 7°27 | 29°28 | 26°18 | 19°40 | 10°53 | 13°58 | 6°8 | 28°37 | 27°33 | 25°13 | 24°49 | S 14 | |
| S 15 | 15 31 41 | 24°32'44 | 4♏29 | 8°42 | 8°26 | 0♎1 | 26°29 | 19°47 | 10°54 | 13°57 | 6°9 | 28°35 | 27°30 | 25°20 | 24°48 | S 15 | |
| M16 | 15 35 38 | 25°30'54 | 19°13 | 10°34 | 9°25 | 0°35 | 26°39 | 19°55 | 10°56 | 13°57 | 6°10 | 28°32 | 27°27 | 25°26 | 24°46 | M16 | |
| T 17 | 15 39 34 | 26°29'02 | 3♌36 | 12°27 | 10°25 | 1°9 | 26°50 | 20°2 | 10°57 | 13°57 | 6°12 | 28°28 | 27°24 | 25°33 | 24°45 | T 17 | |
| W18 | 15 43 31 | 27°27'09 | 17°34 | 14°22 | 11°25 | 1°43 | 27°1 | 20°9 | 10°59 | 13°56 | 6°13 | 28°24 | 27°21 | 25°40 | 24°44 | W18 | |
| T 19 | 15 47 28 | 28°25'13 | 1♌5 | 16°19 | 12°25 | 2°16 | 27°11 | 20°17 | 11°0 | 13°56 | 6°14 | 28°20 | 27°17 | 25°46 | 24°43 | T 19 | |
| F 20 | 15 51 24 | 29°23'16 | 14°9 | 18°18 | 13°25 | 2°50 | 27°21 | 20°24 | 11°1 | 13°56 | 6°15 | 28°18 | 27°14 | 25°53 | 24°41 | F 20 | |
| S 21 | 15 55 21 | 0♏21'16 | 26°49 | 20°18 | 14°26 | 3°24 | 27°31 | 20°32 | 11°3 | 13°56 | 6°17 | 28°D17 | 27°11 | 26°0 | 24°40 | S 21 | |
| S 22 | 15 59 17 | 1°19'15 | 9♏8 | 22°20 | 15°27 | 3°58 | 27°41 | 20°39 | 11°4 | 13°56 | 6°18 | 28°17 | 27°8 | 26°6 | 24°38 | S 22 | |
| M23 | 16 3 14 | 2°17'12 | 21°13 | 24°24 | 16°29 | 4°32 | 27°51 | 20°47 | 11°5 | 13°56 | 6°19 | 28°18 | 27°5 | 26°13 | 24°37 | M23 | |
| T 24 | 16 7 10 | 3°15'07 | 3♌7 | 26°29 | 17°31 | 5°6 | 28°1 | 20°54 | 11°6 | 13°56 | 6°21 | 28°20 | 27°2 | 26°19 | 24°35 | T 24 | |
| W25 | 16 11 7 | 4°13'01 | 14°55 | 28°36 | 18°33 | 5°41 | 28°11 | 21°2 | 11°7 | 13°D56 | 6°22 | 28°21 | 26°58 | 26°26 | 24°33 | W25 | |
| T 26 | 16 15 3 | 5°10'52 | 26°42 | 0♏44 | 19°35 | 6°15 | 28°20 | 21°9 | 11°8 | 13°56 | 6°23 | 28°R22 | 26°55 | 26°33 | 24°31 | T 26 | |
| F 27 | 16 19 0 | 6°8'43 | 8♏31 | 2°53 | 20°37 | 6°49 | 28°30 | 21°17 | 11°9 | 13°56 | 6°24 | 28°22 | 26°52 | 26°39 | 24°29 | F 27 | |
| S 28 | 16 22 57 | 7°6'31 | 20°26 | 5°4 | 21°40 | 7°23 | 28°39 | 21°25 | 11°10 | 13°56 | 6°26 | 28°19 | 26°49 | 26°46 | 24°27 | S 28 | |
| S 29 | 16 26 53 | 8°4'19 | 2♌29 | 7°14 | 22°43 | 7°58 | 28°48 | 21°32 | 11°11 | 13°56 | 6°27 | 28°15 | 26°46 | 26°53 | 24°25 | S 29 | |
| M30 | 16 30 50 | 9°2'05 | 14°43 | 9°26 | 23°46 | 8°32 | 28°57 | 21°40 | 11°12 | 13°56 | 6°28 | 28°10 | 26°42 | 26°59 | 24°23 | M30 | |
| T 31 | 16 34 46 | 9♏59'49 | 27♌7 | 11♏38 | 24♍50 | 9♎7 | 29♋6 | 21♏48 | 11♋12 | 13♏56 | 6♌29 | 28♏3 | 26♏39 | 27♏6 | 24♌21 | T 31 | |

Delta T = 19m38s

JUNE 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|------|--------|-------|-------|--------|------|-----|
| W 1 | 16 38 43 | 10♏57'33 | 9♌44 | 13♏49 | 25♍54 | 9♎41 | 29♋15 | 21♏55 | 11♋13 | 13♏56 | 6♌30 | 27°R55 | 26♏36 | 27♏13 | 24°R19 | W 1 | |
| T 2 | 16 42 39 | 11°55'15 | 22°34 | 16°1 | 26°58 | 10°16 | 29°24 | 22°3 | 11°14 | 13°57 | 6°32 | 27♏48 | 26°33 | 27°19 | 24♌16 | T 2 | |
| F 3 | 16 46 36 | 12°52'56 | 5♌36 | 18°11 | 28°2 | 10°50 | 29°32 | 22°11 | 11°14 | 13°57 | 6°33 | 27°42 | 26°30 | 27°26 | 24°14 | F 3 | |
| S 4 | 16 50 32 | 13°50'36 | 18°53 | 20°21 | 29°6 | 11°25 | 29°41 | 22°18 | 11°15 | 13°57 | 6°34 | 27°37 | 26°27 | 27°33 | 24°12 | S 4 | |
| S 5 | 16 54 29 | 14°48'15 | 2♋23 | 22°30 | 0♎11 | 12°0 | 29°49 | 22°26 | 11°16 | 13°58 | 6°35 | 27°35 | 26°23 | 27°39 | 24°9 | S 5 | |
| M 6 | 16 58 26 | 15°45'53 | 16°8 | 24°38 | 1°15 | 12°34 | 29°57 | 22°34 | 11°16 | 13°58 | 6°36 | 27°D34 | 26°20 | 27°46 | 24°6 | M 6 | |
| T 7 | 17 2 22 | 16°43'30 | 0♍9 | 26°43 | 2°20 | 13°9 | 0♍5 | 22°42 | 11°16 | 13°58 | 6°37 | 27°34 | 26°17 | 27°52 | 24°4 | T 7 | |
| W 8 | 17 6 19 | 17°41'06 | 14°24 | 28°48 | 3°25 | 13°44 | 0°13 | 22°49 | 11°17 | 13°59 | 6°38 | 27°35 | 26°14 | 27°59 | 24°1 | W 8 | |
| T 9 | 17 10 15 | 18°38'42 | 28°52 | 0♌50 | 4°31 | 14°19 | 0°21 | 22°57 | 11°17 | 13°59 | 6°40 | 27°R36 | 26°11 | 28°6 | 23°58 | T 9 | |
| F 10 | 17 14 12 | 19°36'17 | 13♌31 | 2°50 | 5°36 | 14°54 | 0°28 | 23°5 | 11°17 | 14°0 | 6°41 | 27°35 | 26°8 | 28°12 | 23°55 | F 10 | |
| S 11 | 17 18 8 | 20°33'51 | 28°14 | 4°48 | 6°42 | 15°29 | 0°36 | 23°13 | 11°18 | 14°0 | 6°42 | 27°32 | 26°4 | 28°19 | 23°53 | S 11 | |
| S 12 | 17 22 5 | 21°31'24 | 12♏56 | 6°43 | 7°48 | 16°4 | 0°43 | 23°21 | 11°18 | 14°1 | 6°43 | 27°26 | 26°1 | 28°26 | 23°50 | S 12 | |
| M13 | 17 26 1 | 22°28'56 | 27°29 | 8°36 | 8°54 | 16°39 | 0°50 | 23°28 | 11°18 | 14°2 | 6°44 | 27°19 | 25°58 | 28°32 | 23°47 | M13 | |
| T 14 | 17 29 58 | 23°26'27 | 11♌46 | 10°26 | 10°0 | 17°14 | 0°57 | 23°36 | 11°18 | 14°2 | 6°45 | 27°10 | 25°55 | 28°39 | 23°44 | T 14 | |
| W15 | 17 33 55 | 24°23'57 | 25°42 | 12°14 | 11°6 | 17°49 | 1°4 | 23°44 | 11°R18 | 14°3 | 6°46 | 27°1 | 25°52 | 28°46 | 23°41 | W15 | |
| T 16 | 17 37 51 | 25°21'26 | 9♎13 | 14°0 | 12°12 | 18°25 | 1°11 | 23°52 | 11°18 | 14°4 | 6°47 | 26°53 | 25°48 | 28°52 | 23°37 | T 16 | |
| F 17 | 17 41 48 | 26°18'54 | 22°19 | 15°42 | 13°19 | 19°0 | 1°17 | 24°0 | 11°18 | 14°4 | 6°48 | 26°46 | 25°45 | 28°59 | 23°34 | F 17 | |
| S 18 | 17 45 44 | 27°16'20 | 5♏1 | 17°22 | 14°25 | 19°35 | 1°24 | 24°7 | 11°18 | 14°5 | 6°49 | 26°42 | 25°42 | 29°6 | 23°31 | S 18 | |
| S 19 | 17 49 41 | 28°13'46 | 17°22 | 19°0 | 15°32 | 20°10 | 1°30 | 24°15 | 11°18 | 14°6 | 6°50 | 26°39 | 25°39 | 29°12 | 23°28 | S 19 | |
| M20 | 17 53 37 | 29°11'10 | 29°27 | 20°34 | 16°39 | 20°46 | 1°36 | 24°23 | 11°18 | 14°7 | 6°51 | 26°D39 | 25°36 | 29°19 | 23°24 | M20 | |
| T 21 | 17 57 34 | 0♌8'33 | 11♏22 | 22°6 | 17°46 | 21°21 | 1°42 | 24°31 | 11°17 | 14°8 | 6°52 | 26°39 | 25°33 | 29°25 | 23°21 | T 21 | |
| W22 | 18 1 30 | 1°5'56 | 23°10 | 23°35 | 18°53 | 21°57 | 1°48 | 24°38 | 11°17 | 14°8 | 6°52 | 26°R40 | 25°29 | 29°32 | 23°18 | W22 | |
| T 23 | 18 5 27 | 2°3'17 | 4♏58 | 25°2 | 20°1 | 22°32 | 1°53 | 24°46 | 11°17 | 14°9 | 6°53 | 26°39 | 25°26 | 29°39 | 23°14 | T 23 | |
| F 24 | 18 9 24 | 3°0'38 | 16°51 | 26°25 | 21°8 | 23°8 | 1°59 | 24°54 | 11°16 | 14°10 | 6°54 | 26°37 | 25°23 | 29°45 | 23°11 | F 24 | |
| S 25 | 18 13 20 | 3°57'57 | 28°52 | 27°46 | 22°16 | 23°43 | 2°4 | 25°2 | 11°16 | 14°11 | 6°55 | 26°33 | 25°20 | 29°52 | 23°7 | S 25 | |
| S 26 | 18 17 17 | 4°55'16 | 11♌4 | 29°4 | 23°23 | 24°19 | 2°9 | 25°9 | 11°15 | 14°12 | 6°56 | 26°26 | 25°17 | 29°59 | 23°4 | S 26 | |
| M27 | 18 21 13 | 5°52'35 | 23°31 | 0♎19 | 24°31 | 24°55 | 2°14 | 25°17 | 11°15 | 14°13 | 6°57 | 26°17 | 25°14 | 0♏5 | 23°0 | M27 | |
| T 28 | 18 25 10 | 6°49'52 | 6♌13 | 1°30 | 25°39 | 25°30 | 2°19 | 25°25 | 11°14 | 14°14 | 6°58 | 26°6 | 25°10 | 0°12 | 22°57 | T 28 | |
| W29 | 18 29 6 | 7°47'10 | 19°9 | 2°39 | 26°47 | 26°6 | 2°23 | 25°32 | 11°14 | 14°15 | 6°58 | 25°54 | 25°7 | 0°19 | 22°53 | W29 | |
| T 30 | 18 33 3 | 8♌44'26 | 2♌20 | 3♎45 | 27♌55 | 26♎42 | 2♍28 | 25♏40 | 11♋13 | 14♏17 | 6♌59 | 25♏43 | 25♏4 | 0♏25 | 22♌49 | T 30 | |

Delta T = 19m39s

ASTRODIENST EPHEMERIS for the year 2591
geocentric

JULY 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|------|--------|-------|------|--------|------|
| F 1 | 18 36 59 | 9♄14'42 | 15♋44 | 4♃47 | 29♄ 3 | 27♂18 | 2♃32 | 25♂48 | 11°R12 | 14♎18 | 7♄ 0 | 25°R33 | 25♄ 1 | 0♎32 | 22°R46 | F 1 |
| S 2 | 18 40 56 | 10°38'58 | 29°18 | 5°47 | 0♎11 | 27°53 | 2°36 | 25°55 | 11♋12 | 14°19 | 7° 1 | 25♄25 | 24°58 | 0°39 | 22♄42 | S 2 |
| S 3 | 18 44 53 | 11°36'14 | 13♋ 2 | 6°43 | 1°20 | 28°29 | 2°40 | 26° 3 | 11°11 | 14°20 | 7° 1 | 25°20 | 24°54 | 0°45 | 22°38 | S 3 |
| M 4 | 18 48 49 | 12°33'30 | 26°54 | 7°35 | 2°28 | 29° 5 | 2°43 | 26°11 | 11°10 | 14°21 | 7° 2 | 25°18 | 24°51 | 0°52 | 22°35 | M 4 |
| T 5 | 18 52 46 | 13°30'45 | 10♃53 | 8°24 | 3°37 | 29°41 | 2°47 | 26°18 | 11° 9 | 14°23 | 7° 3 | 25°D17 | 24°48 | 0°59 | 22°31 | T 5 |
| W 6 | 18 56 42 | 14°28'01 | 25° 0 | 9° 9 | 4°45 | 0♎17 | 2°50 | 26°26 | 11° 8 | 14°24 | 7° 3 | 25°R17 | 24°45 | 1° 5 | 22°27 | W 6 |
| T 7 | 19 0 39 | 15°25'16 | 9♄13 | 9°51 | 5°54 | 0°53 | 2°53 | 26°33 | 11° 7 | 14°25 | 7° 4 | 25°16 | 24°42 | 1°12 | 22°23 | T 7 |
| F 8 | 19 4 35 | 16°22'32 | 23°31 | 10°28 | 7° 3 | 1°29 | 2°56 | 26°41 | 11° 6 | 14°26 | 7° 5 | 25°14 | 24°39 | 1°18 | 22°19 | F 8 |
| S 9 | 19 8 32 | 17°19'48 | 7♂50 | 11° 2 | 8°12 | 2° 5 | 2°59 | 26°48 | 11° 5 | 14°28 | 7° 5 | 25°10 | 24°35 | 1°25 | 22°16 | S 9 |
| S 10 | 19 12 28 | 18°17'03 | 22° 8 | 11°31 | 9°21 | 2°41 | 3° 2 | 26°56 | 11° 4 | 14°29 | 7° 6 | 25° 2 | 24°32 | 1°32 | 22°12 | S 10 |
| M 11 | 19 16 25 | 19°14'19 | 6♄18 | 11°57 | 10°30 | 3°18 | 3° 4 | 27° 3 | 11° 3 | 14°31 | 7° 6 | 24°52 | 24°29 | 1°38 | 22° 8 | M 11 |
| T 12 | 19 20 22 | 20°11'35 | 20°17 | 12°17 | 11°39 | 3°54 | 3° 6 | 27°11 | 11° 1 | 14°32 | 7° 7 | 24°41 | 24°26 | 1°45 | 22° 4 | T 12 |
| W 13 | 19 24 18 | 21° 8'50 | 3♂58 | 12°34 | 12°49 | 4°30 | 3° 8 | 27°18 | 11° 0 | 14°33 | 7° 7 | 24°29 | 24°23 | 1°52 | 22° 0 | W 13 |
| T 14 | 19 28 15 | 22° 6'06 | 17°20 | 12°46 | 13°58 | 5° 6 | 3°10 | 27°25 | 10°59 | 14°35 | 7° 8 | 24°17 | 24°20 | 1°58 | 21°57 | T 14 |
| F 15 | 19 32 11 | 23° 3'21 | 0♎20 | 12°53 | 15° 7 | 5°43 | 3°12 | 27°33 | 10°58 | 14°36 | 7° 8 | 24° 8 | 24°16 | 2° 5 | 21°53 | F 15 |
| S 16 | 19 36 8 | 24° 0'36 | 12°59 | 12°R55 | 16°17 | 6°19 | 3°13 | 27°40 | 10°56 | 14°38 | 7° 9 | 24° 1 | 24°13 | 2°12 | 21°49 | S 16 |
| S 17 | 19 40 4 | 24°57'50 | 25°20 | 12°53 | 17°27 | 6°56 | 3°14 | 27°47 | 10°55 | 14°40 | 7° 9 | 23°56 | 24°10 | 2°18 | 21°45 | S 17 |
| M 18 | 19 44 1 | 25°55'05 | 7♄25 | 12°46 | 18°36 | 7°32 | 3°15 | 27°54 | 10°53 | 14°41 | 7°10 | 23°54 | 24° 7 | 2°25 | 21°41 | M 18 |
| T 19 | 19 47 57 | 26°52'19 | 19°19 | 12°35 | 19°46 | 8° 9 | 3°16 | 28° 2 | 10°52 | 14°43 | 7°10 | 23°54 | 24° 4 | 2°32 | 21°38 | T 19 |
| W 20 | 19 51 54 | 27°49'34 | 1♎ 8 | 12°19 | 20°56 | 8°45 | 3°17 | 28° 9 | 10°50 | 14°44 | 7°10 | 23°54 | 24° 0 | 2°38 | 21°34 | W 20 |
| T 21 | 19 55 51 | 28°46'48 | 12°57 | 11°58 | 22° 6 | 9°22 | 3°17 | 28°16 | 10°49 | 14°46 | 7°11 | 23°53 | 23°57 | 2°45 | 21°30 | T 21 |
| F 22 | 19 59 47 | 29°44'02 | 24°52 | 11°34 | 23°16 | 9°58 | 3°18 | 28°23 | 10°47 | 14°48 | 7°11 | 23°51 | 23°54 | 2°52 | 21°26 | F 22 |
| S 23 | 20 3 44 | 0♎41'16 | 6♄57 | 11° 6 | 24°26 | 10°35 | 3°R18 | 28°30 | 10°46 | 14°49 | 7°11 | 23°47 | 23°51 | 2°58 | 21°22 | S 23 |
| S 24 | 20 7 40 | 1°38'31 | 19°17 | 10°34 | 25°36 | 11°12 | 3°18 | 28°37 | 10°44 | 14°51 | 7°12 | 23°40 | 23°48 | 3° 5 | 21°19 | S 24 |
| M 25 | 20 11 37 | 2°35'45 | 1♄54 | 9°59 | 26°46 | 11°48 | 3°17 | 28°44 | 10°42 | 14°53 | 7°12 | 23°31 | 23°45 | 3°11 | 21°15 | M 25 |
| T 26 | 20 15 33 | 3°32'59 | 14°51 | 9°22 | 27°56 | 12°25 | 3°17 | 28°51 | 10°41 | 14°55 | 7°12 | 23°20 | 23°41 | 3°18 | 21°11 | T 26 |
| W 27 | 20 19 30 | 4°30'14 | 28° 6 | 8°43 | 29° 7 | 13° 2 | 3°16 | 28°58 | 10°39 | 14°56 | 7°12 | 23° 8 | 23°38 | 3°25 | 21° 8 | W 27 |
| T 28 | 20 23 26 | 5°27'29 | 11♋39 | 8° 2 | 0♄17 | 13°39 | 3°15 | 29° 4 | 10°37 | 14°58 | 7°13 | 22°56 | 23°35 | 3°31 | 21° 4 | T 28 |
| F 29 | 20 27 23 | 6°24'45 | 25°27 | 7°21 | 1°28 | 14°15 | 3°14 | 29°11 | 10°35 | 15° 0 | 7°13 | 22°46 | 23°32 | 3°38 | 21° 0 | F 29 |
| S 30 | 20 31 20 | 7°22'01 | 9♁26 | 6°40 | 2°38 | 14°52 | 3°13 | 29°18 | 10°33 | 15° 2 | 7°13 | 22°38 | 23°29 | 3°45 | 20°57 | S 30 |
| S 31 | 20 35 16 | 8♂19'17 | 23♋31 | 6♂ 0 | 3♄49 | 15♎29 | 3♃11 | 29♂25 | 10♋32 | 15♎ 4 | 7♄13 | 22♄33 | 23♄26 | 3♎51 | 20♄53 | S 31 |

Delta T = 19m39s

AUGUST 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|------|--------|------|
| M 1 | 20 39 13 | 9♂16'35 | 7♃40 | 5°R22 | 4♄59 | 16♎ 6 | 3°R10 | 29♂31 | 10°R30 | 15♎ 5 | 7♄13 | 22°R30 | 23♄22 | 3♎58 | 20°R50 | M 1 |
| T 2 | 20 43 9 | 10°13'53 | 21°51 | 4♂46 | 6°10 | 16°43 | 3♃ 8 | 29°38 | 10♋28 | 15° 7 | 7°13 | 22°D29 | 23°19 | 4° 5 | 20♄46 | T 2 |
| W 3 | 20 47 6 | 11°11'12 | 6♄ 0 | 4°13 | 7°21 | 17°20 | 3° 6 | 29°44 | 10°26 | 15° 9 | 7°13 | 22°R30 | 23°16 | 4°11 | 20°43 | W 3 |
| T 4 | 20 51 2 | 12° 8'32 | 20° 7 | 3°43 | 8°32 | 17°57 | 3° 3 | 29°51 | 10°24 | 15°11 | 7°14 | 22♄29 | 23°13 | 4°18 | 20°40 | T 4 |
| F 5 | 20 54 59 | 13° 5'53 | 4♂11 | 3°17 | 9°43 | 18°34 | 3° 1 | 29°57 | 10°22 | 15°13 | 7°14 | 22°28 | 23°10 | 4°25 | 20°36 | F 5 |
| S 6 | 20 58 55 | 14° 3'15 | 18°11 | 2°57 | 10°54 | 19°11 | 2°58 | 0♄ 4 | 10°20 | 15°15 | 7°14 | 22°24 | 23° 6 | 4°31 | 20°33 | S 6 |
| S 7 | 21 2 52 | 15° 0'37 | 2♄ 5 | 2°41 | 12° 5 | 19°49 | 2°55 | 0°10 | 10°18 | 15°17 | 7°R14 | 22°18 | 23° 3 | 4°38 | 20°30 | S 7 |
| M 8 | 21 6 49 | 15°58'01 | 15°50 | 2°31 | 13°16 | 20°26 | 2°52 | 0°16 | 10°15 | 15°19 | 7°14 | 22° 9 | 23° 0 | 4°45 | 20°26 | M 8 |
| T 9 | 21 10 45 | 16°55'26 | 29°24 | 2°D26 | 14°27 | 21° 3 | 2°49 | 0°22 | 10°13 | 15°21 | 7°14 | 21°59 | 22°57 | 4°51 | 20°23 | T 9 |
| W 10 | 21 14 42 | 17°52'51 | 12♂44 | 2°28 | 15°39 | 21°40 | 2°46 | 0°29 | 10°11 | 15°23 | 7°13 | 21°48 | 22°54 | 4°58 | 20°20 | W 10 |
| T 11 | 21 18 38 | 18°50'18 | 25°48 | 2°36 | 16°50 | 22°18 | 2°42 | 0°35 | 10° 9 | 15°25 | 7°13 | 21°38 | 22°51 | 5° 4 | 20°17 | T 11 |
| F 12 | 21 22 35 | 19°47'45 | 8♎34 | 2°50 | 18° 2 | 22°55 | 2°38 | 0°41 | 10° 7 | 15°27 | 7°13 | 21°29 | 22°47 | 5°11 | 20°14 | F 12 |
| S 13 | 21 26 31 | 20°45'12 | 21° 5 | 3°11 | 19°13 | 23°33 | 2°35 | 0°47 | 10° 5 | 15°29 | 7°13 | 21°23 | 22°44 | 5°18 | 20°11 | S 13 |
| S 14 | 21 30 28 | 21°42'41 | 3♄19 | 3°38 | 20°25 | 24°10 | 2°30 | 0°53 | 10° 2 | 15°31 | 7°13 | 21°19 | 22°41 | 5°24 | 20° 8 | S 14 |
| M 15 | 21 34 24 | 22°40'10 | 15°21 | 4°12 | 21°36 | 24°48 | 2°26 | 0°58 | 10° 0 | 15°33 | 7°13 | 21°17 | 22°38 | 5°31 | 20° 5 | M 15 |
| T 16 | 21 38 21 | 23°37'40 | 27°14 | 4°52 | 22°48 | 25°25 | 2°22 | 1° 4 | 9°58 | 15°35 | 7°13 | 21°D17 | 22°35 | 5°38 | 20° 2 | T 16 |
| W 17 | 21 42 18 | 24°35'11 | 9♎ 3 | 5°39 | 24° 0 | 26° 3 | 2°17 | 1°10 | 9°56 | 15°37 | 7°12 | 21°18 | 22°31 | 5°44 | 19°59 | W 17 |
| T 18 | 21 46 14 | 25°32'42 | 20°52 | 6°32 | 25°11 | 26°40 | 2°12 | 1°15 | 9°53 | 15°39 | 7°12 | 21°R19 | 22°28 | 5°51 | 19°56 | T 18 |
| F 19 | 21 50 11 | 26°30'15 | 2♄47 | 7°31 | 26°23 | 27°18 | 2° 7 | 1°21 | 9°51 | 15°42 | 7°12 | 21°18 | 22°25 | 5°58 | 19°54 | F 19 |
| S 20 | 21 54 7 | 27°27'48 | 14°53 | 8°36 | 27°35 | 27°56 | 2° 2 | 1°27 | 9°49 | 15°44 | 7°12 | 21°17 | 22°22 | 6° 4 | 19°51 | S 20 |
| S 21 | 21 58 4 | 28°25'22 | 27°15 | 9°47 | 28°47 | 28°33 | 1°57 | 1°32 | 9°46 | 15°46 | 7°11 | 21°13 | 22°19 | 6°11 | 19°49 | S 21 |
| M 22 | 22 2 0 | 29°22'57 | 9♄57 | 11° 3 | 29°59 | 29°11 | 1°51 | 1°37 | 9°44 | 15°48 | 7°11 | 21° 7 | 22°16 | 6°18 | 19°46 | M 22 |
| T 23 | 22 5 57 | 0♎20'33 | 23° 2 | 12°25 | 1♂11 | 29°49 | 1°46 | 1°43 | 9°42 | 15°50 | 7°11 | 21° 0 | 22°12 | 6°24 | 19°44 | T 23 |
| W 24 | 22 9 53 | 1°18'09 | 6♋29 | 13°52 | 2°23 | 0♄27 | 1°40 | 1°48 | 9°39 | 15°52 | 7°10 | 20°52 | 22° 9 | 6°31 | 19°41 | W 24 |
| T 25 | 22 13 50 | 2°15'47 | 20°19 | 15°24 | 3°35 | 1° 5 | 1°34 | 1°53 | 9°37 | 15°54 | 7°10 | 20°44 | 22° 6 | 6°38 | 19°39 | T 25 |
| F 26 | 22 17 47 | 3°13'26 | 4♋28 | 17° 1 | 4°48 | 1°42 | 1°28 | 1°58 | 9°35 | 15°57 | 7°10 | 20°37 | 22° 3 | 6°44 | 19°37 | F 26 |
| S 27 | 22 21 43 | 4°11'06 | 18°51 | 18°41 | 6° 0 | 2°20 | 1°22 | 2° 3 | 9°32 | 15°59 | 7° 9 | 20°32 | 22° 0 | 6°51 | 19°34 | S 27 |
| S 28 | 22 25 40 | 5° 8'48 | 3♃22 | 20°25 | 7°12 | 2°58 | 1°16 | 2° 8 | 9°30 | 16° 1 | 7° 9 | 20°29 | 21°57 | 6°57 | 19°32 | S 28 |
| M 29 | 22 29 36 | 6° 6'31 | 17°55 | 22°13 | 8°25 | 3°36 | 1° 9 | 2°13 | 9°28 | 16° 3 | 7° 8 | 20°D28 | 21°53 | 7° 4 | 19°30 | M 29 |
| T 30 | 22 33 33 | 7° 4'15 | 2♄26 | 24° 3 | 9°37 | 4°15 | 1° 3 | 2°17 | 9°25 | 16° 5 | 7° 8 | 20°28 | 21°50 | 7°11 | 19°28 | T 30 |
| W 31 | 22 37 29 | 8♎ 2'01 | 16 | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2591
geocentric

SEPTEMBER 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|--------|-------|-------|--------|------|
| T 1 | 22 41 26 | 8♎59'49 | 1♈ 2 | 27♏50 | 12♌ 2 | 5♊31 | 0°R49 | 2♄27 | 9°R20 | 16♎10 | 7°R 7 | 20♊30 | 21♎44 | 7♎24 | 19°R25 | T 1 |
| F 2 | 22 45 22 | 9°57'39 | 15° 3 | 29°47 | 13°15 | 6° 9 | 0°V43 | 2°31 | 9♋18 | 16°12 | 7♄ 6 | 20°R30 | 21°41 | 7°31 | 19°R23 | F 2 |
| S 3 | 22 49 19 | 10°55'30 | 28°53 | 1♎44 | 14°28 | 6°47 | 0°36 | 2°36 | 9°16 | 16°14 | 7° 6 | 20°29 | 21°37 | 7°37 | 19°21 | S 3 |
| S 4 | 22 53 16 | 11°53'23 | 12♄29 | 3°42 | 15°41 | 7°25 | 0°28 | 2°40 | 9°13 | 16°16 | 7° 5 | 20°26 | 21°34 | 7°44 | 19°20 | S 4 |
| M 5 | 22 57 12 | 12°51'18 | 25°53 | 5°41 | 16°54 | 8° 4 | 0°21 | 2°44 | 9°11 | 16°19 | 7° 5 | 20°21 | 21°31 | 7°51 | 19°18 | M 5 |
| T 6 | 23 1 9 | 13°49'14 | 9♌ 3 | 7°40 | 18° 6 | 8°42 | 0°14 | 2°48 | 9° 8 | 16°21 | 7° 4 | 20°16 | 21°28 | 7°57 | 19°17 | T 6 |
| W 7 | 23 5 5 | 14°47'12 | 22° 0 | 9°39 | 19°19 | 9°21 | 0° 7 | 2°53 | 9° 6 | 16°23 | 7° 3 | 20° 9 | 21°25 | 8° 4 | 19°15 | W 7 |
| T 8 | 23 9 2 | 15°45'12 | 4♎43 | 11°38 | 20°32 | 9°59 | 29♋59 | 2°57 | 9° 4 | 16°25 | 7° 3 | 20° 4 | 21°22 | 8°11 | 19°14 | T 8 |
| F 9 | 23 12 58 | 16°43'13 | 17°13 | 13°37 | 21°45 | 10°37 | 29°52 | 3° 0 | 9° 1 | 16°28 | 7° 2 | 19°59 | 21°18 | 8°17 | 19°13 | F 9 |
| S 10 | 23 16 55 | 17°41'16 | 29°30 | 15°34 | 22°58 | 11°16 | 29°44 | 3° 4 | 8°59 | 16°30 | 7° 2 | 19°56 | 21°15 | 8°24 | 19°11 | S 10 |
| S 11 | 23 20 51 | 18°39'20 | 11♎36 | 17°31 | 24°12 | 11°55 | 29°36 | 3° 8 | 8°57 | 16°32 | 7° 1 | 19°54 | 21°12 | 8°31 | 19°10 | S 11 |
| M12 | 23 24 48 | 19°37'26 | 23°32 | 19°28 | 25°25 | 12°33 | 29°29 | 3°12 | 8°54 | 16°34 | 7° 0 | 19°D54 | 21° 9 | 8°37 | 19° 9 | M12 |
| T 13 | 23 28 44 | 20°35'33 | 5♎22 | 21°23 | 26°38 | 13°12 | 29°21 | 3°15 | 8°52 | 16°36 | 6°59 | 19°55 | 21° 6 | 8°44 | 19° 8 | T 13 |
| W14 | 23 32 41 | 21°33'42 | 17°10 | 23°17 | 27°51 | 13°50 | 29°13 | 3°19 | 8°50 | 16°39 | 6°59 | 19°56 | 21° 3 | 8°51 | 19° 8 | W14 |
| T 15 | 23 36 38 | 22°31'52 | 28°58 | 25°10 | 29° 5 | 14°29 | 29° 5 | 3°22 | 8°47 | 16°41 | 6°58 | 19°58 | 20°59 | 8°57 | 19° 7 | T 15 |
| F 16 | 23 40 34 | 23°30'04 | 10♎52 | 27° 2 | 0♎18 | 15° 8 | 28°57 | 3°25 | 8°45 | 16°43 | 6°57 | 19°59 | 20°56 | 9° 4 | 19° 6 | F 16 |
| S 17 | 23 44 31 | 24°28'17 | 22°57 | 28°53 | 1°32 | 15°47 | 28°49 | 3°28 | 8°43 | 16°45 | 6°56 | 20°R 0 | 20°53 | 9°10 | 19° 6 | S 17 |
| S 18 | 23 48 27 | 25°26'32 | 5♄18 | 0♎43 | 2°45 | 16°26 | 28°41 | 3°31 | 8°41 | 16°47 | 6°56 | 20° 0 | 20°50 | 9°17 | 19° 5 | S 18 |
| M19 | 23 52 24 | 26°24'48 | 17°58 | 2°31 | 3°59 | 17° 5 | 28°33 | 3°34 | 8°38 | 16°50 | 6°55 | 19°58 | 20°47 | 9°24 | 19° 5 | M19 |
| T 20 | 23 56 20 | 27°23'05 | 1♎ 2 | 4°19 | 5°12 | 17°44 | 28°26 | 3°37 | 8°36 | 16°52 | 6°54 | 19°56 | 20°43 | 9°30 | 19° 4 | T 20 |
| W21 | 0 0 17 | 28°21'24 | 14°32 | 6° 5 | 6°26 | 18°22 | 28°18 | 3°40 | 8°34 | 16°54 | 6°53 | 19°53 | 20°40 | 9°37 | 19° 4 | W21 |
| T 22 | 0 4 13 | 29°19'45 | 28°27 | 7°51 | 7°39 | 19° 2 | 28°10 | 3°43 | 8°32 | 16°56 | 6°52 | 19°50 | 20°37 | 9°44 | 19° 4 | T 22 |
| F 23 | 0 8 10 | 0♎18'07 | 12♋47 | 9°35 | 8°53 | 19°41 | 28° 2 | 3°45 | 8°29 | 16°58 | 6°51 | 19°47 | 20°34 | 9°50 | 19° 4 | F 23 |
| S 24 | 0 12 7 | 1°16'31 | 27°26 | 11°18 | 10° 7 | 20°20 | 27°54 | 3°48 | 8°27 | 17° 1 | 6°50 | 19°46 | 20°31 | 9°57 | 19°D 4 | S 24 |
| S 25 | 0 16 3 | 2°14'57 | 12♎18 | 13° 0 | 11°21 | 20°59 | 27°46 | 3°50 | 8°25 | 17° 3 | 6°50 | 19°45 | 20°28 | 10° 4 | 19° 4 | S 25 |
| M26 | 0 20 0 | 3°13'24 | 27°15 | 14°40 | 12°34 | 21°38 | 27°38 | 3°52 | 8°23 | 17° 5 | 6°49 | 19°D45 | 20°24 | 10°10 | 19° 4 | M26 |
| T 27 | 0 23 56 | 4°11'54 | 12♄10 | 16°20 | 13°48 | 22°17 | 27°30 | 3°55 | 8°21 | 17° 7 | 6°48 | 19°45 | 20°21 | 10°17 | 19° 4 | T 27 |
| W28 | 0 27 53 | 5°10'26 | 26°54 | 17°59 | 15° 2 | 22°57 | 27°22 | 3°57 | 8°19 | 17° 9 | 6°47 | 19°46 | 20°18 | 10°24 | 19° 4 | W28 |
| T 29 | 0 31 49 | 6° 9'00 | 11♈23 | 19°37 | 16°16 | 23°36 | 27°14 | 3°59 | 8°17 | 17°11 | 6°46 | 19°47 | 20°15 | 10°30 | 19° 5 | T 29 |
| F 30 | 0 35 46 | 7♎ 7'36 | 25♈32 | 21♎13 | 17♎30 | 24♎15 | 27♋ 7 | 4° 0 | 8♋15 | 17♎13 | 6♄45 | 19♎48 | 20♎12 | 10♎37 | 19°R 5 | F 30 |

Delta T = 19m40s

OCTOBER 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|------|
| S 1 | 0 39 42 | 8♎ 6'14 | 9♄22 | 22♎49 | 18♎44 | 24♎55 | 26°R59 | 4° 2 | 8°R13 | 17♎16 | 6°R44 | 19°R48 | 20♎ 8 | 10♎44 | 19°R 6 | S 1 |
| S 2 | 0 43 39 | 9° 4'55 | 22°52 | 24°24 | 19°58 | 25°34 | 26♋51 | 4° 4 | 8♋11 | 17°18 | 6♄43 | 19♎48 | 20° 5 | 10°50 | 19° 6 | S 2 |
| M 3 | 0 47 36 | 10° 3'38 | 6♌ 2 | 25°58 | 21°13 | 26°14 | 26°44 | 4° 5 | 8° 9 | 17°20 | 6°42 | 19°47 | 20° 2 | 10°57 | 19° 7 | M 3 |
| T 4 | 0 51 32 | 11° 2'22 | 18°56 | 27°31 | 22°27 | 26°53 | 26°36 | 4° 7 | 8° 7 | 17°22 | 6°41 | 19°46 | 19°59 | 11° 4 | 19° 8 | T 4 |
| W 5 | 0 55 29 | 12° 1'09 | 1♎34 | 29° 3 | 23°41 | 27°33 | 26°29 | 4° 8 | 8° 5 | 17°24 | 6°40 | 19°45 | 19°56 | 11°10 | 19° 9 | W 5 |
| T 6 | 0 59 25 | 12°59'59 | 13°58 | 0♎34 | 24°55 | 28°12 | 26°21 | 4° 9 | 8° 3 | 17°26 | 6°39 | 19°44 | 19°53 | 11°17 | 19°10 | T 6 |
| F 7 | 1 3 22 | 13°58'50 | 26°12 | 2° 4 | 26°10 | 28°52 | 26°14 | 4°10 | 8° 2 | 17°28 | 6°38 | 19°43 | 19°49 | 11°24 | 19°11 | F 7 |
| S 8 | 1 7 18 | 14°57'43 | 8♎16 | 3°33 | 27°24 | 29°32 | 26° 7 | 4°11 | 8° 0 | 17°30 | 6°37 | 19°43 | 19°46 | 11°30 | 19°12 | S 8 |
| S 9 | 1 11 15 | 15°56'38 | 20°13 | 5° 1 | 28°38 | 0♎12 | 26° 0 | 4°12 | 7°58 | 17°32 | 6°36 | 19°D43 | 19°43 | 11°37 | 19°13 | S 9 |
| M10 | 1 15 11 | 16°55'35 | 2♎ 4 | 6°28 | 29°53 | 0°51 | 25°53 | 4°13 | 7°56 | 17°34 | 6°35 | 19°43 | 19°40 | 11°43 | 19°14 | M10 |
| T 11 | 1 19 8 | 17°54'35 | 13°52 | 7°55 | 1♎ 7 | 1°31 | 25°46 | 4°14 | 7°55 | 17°36 | 6°34 | 19°43 | 19°37 | 11°50 | 19°16 | T 11 |
| W12 | 1 23 4 | 18°53'36 | 25°39 | 9°20 | 2°22 | 2°11 | 25°39 | 4°14 | 7°53 | 17°38 | 6°33 | 19°43 | 19°34 | 11°57 | 19°17 | W12 |
| T 13 | 1 27 1 | 19°52'39 | 7♎29 | 10°44 | 3°36 | 2°51 | 25°33 | 4°15 | 7°52 | 17°40 | 6°32 | 19°R43 | 19°30 | 12° 3 | 19°19 | T 13 |
| F 14 | 1 30 58 | 20°51'43 | 19°24 | 12° 7 | 4°51 | 3°31 | 25°26 | 4°15 | 7°50 | 17°42 | 6°30 | 19°43 | 19°27 | 12°10 | 19°20 | F 14 |
| S 15 | 1 34 54 | 21°50'50 | 1♄28 | 13°30 | 6° 5 | 4°11 | 25°20 | 4°15 | 7°49 | 17°44 | 6°29 | 19°43 | 19°24 | 12°17 | 19°22 | S 15 |
| S 16 | 1 38 51 | 22°49'58 | 13°47 | 14°51 | 7°20 | 4°51 | 25°14 | 4°R15 | 7°47 | 17°46 | 6°28 | 19°43 | 19°21 | 12°23 | 19°24 | S 16 |
| M17 | 1 42 47 | 23°49'08 | 26°23 | 16°11 | 8°34 | 5°32 | 25° 8 | 4°15 | 7°46 | 17°48 | 6°27 | 19°D43 | 19°18 | 12°30 | 19°26 | M17 |
| T 18 | 1 46 44 | 24°48'20 | 9♎20 | 17°30 | 9°49 | 6°12 | 25° 2 | 4°15 | 7°44 | 17°49 | 6°26 | 19°43 | 19°14 | 12°37 | 19°28 | T 18 |
| W19 | 1 50 40 | 25°47'33 | 22°43 | 18°47 | 11° 4 | 6°52 | 24°56 | 4°15 | 7°43 | 17°51 | 6°25 | 19°44 | 19°11 | 12°43 | 19°30 | W19 |
| T 20 | 1 54 37 | 26°46'48 | 6♋32 | 20° 3 | 12°18 | 7°32 | 24°50 | 4°14 | 7°42 | 17°53 | 6°24 | 19°44 | 19° 8 | 12°50 | 19°32 | T 20 |
| F 21 | 1 58 33 | 27°46'05 | 20°49 | 21°18 | 13°33 | 8°13 | 24°45 | 4°14 | 7°40 | 17°55 | 6°23 | 19°45 | 19° 5 | 12°57 | 19°34 | F 21 |
| S 22 | 2 2 30 | 28°45'24 | 5♎29 | 22°31 | 14°48 | 8°53 | 24°39 | 4°13 | 7°39 | 17°57 | 6°22 | 19°45 | 19° 2 | 13° 3 | 19°36 | S 22 |
| S 23 | 2 6 27 | 29°44'44 | 20°29 | 23°43 | 16° 3 | 9°33 | 24°34 | 4°13 | 7°38 | 17°59 | 6°20 | 19°R46 | 18°59 | 13°10 | 19°39 | S 23 |
| M24 | 2 10 23 | 0♎44'07 | 5♄40 | 24°53 | 17°17 | 10°14 | 24°29 | 4°12 | 7°37 | 18° 0 | 6°19 | 19°45 | 18°55 | 13°17 | 19°41 | M24 |
| T 25 | 2 14 20 | 1°43'31 | 20°52 | 26° 1 | 18°32 | 10°54 | 24°24 | 4°11 | 7°36 | 18° 2 | 6°18 | 19°44 | 18°52 | 13°23 | 19°43 | T 25 |
| W26 | 2 18 16 | 2°42'58 | 5♈57 | 27° 7 | 19°47 | 11°35 | 24°20 | 4°10 | 7°35 | 18° 4 | 6°17 | 19°43 | 18°49 | 13°30 | 19°46 | W26 |
| T 27 | 2 22 13 | 3°42'27 | 20°45 | 28°10 | 21° 2 | 12°16 | 24°15 | 4° 9 | 7°33 | 18° 5 | 6°16 | 19°41 | 18°46 | 13°37 | 19°49 | T 27 |
| F 28 | 2 26 9 | 4°41'58 | 5♄10 | 29°12 | 22°17 | 12°56 | 24°11 | 4° 8 | 7°33 | 18° 7 | 6°15 | 19°40 | 18°43 | 13°43 | 19°51 | F 28 |
| S 29 | 2 30 6 | 5°41'32 | 19°10 | 0♎10 | 23°32 | 13°37 | 24° 7 | 4° 6 | 7°32 | 18° 9 | 6°14 | 19°38 | 18°39 | 13°50 | 19°54 | S 29 |
| S 30 | 2 34 2 | 6°41'07 | 2♌43 | 1° 6 | 24°47 | 14°18 | 24° 3 | 4° 5 | 7°31 | 18°10 | 6°13 | 19°D38 | 18°36 | 13°57 | 19°57 | S 30 |
| M31 | 2 37 59 | 7♎40'45 | 15♌50 | 1♎58 | 26♎ 2 | 14♎59 | 23♋59 | 4° 3 | 7♋30 | 18♎12 | 6♄11 | 19♎38 | 18♎33 | 14♎ 3 | 20°R 0 | M31 |

Delta T = 19m40s

ASTRODIENST EPHEMERIS for the year 2591
geocentric

NOVEMBER 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|------|-----|
| T 1 | 2 41 56 | 8♁40'26 | 28♁36 | 2♁46 | 27♁17 | 15♁39 | 23°R55 | 4°R 2 | 7°R29 | 18♁13 | 6°R10 | 19♁39 | 18♁30 | 14♁10 | 20♁3 | T 1 | |
| W 2 | 2 45 52 | 9°40'08 | 11♁ 3 | 3°31 | 28°32 | 16°20 | 23♁52 | 4♁ 0 | 7♁28 | 18°15 | 6♁ 9 | 19°40 | 18°27 | 14°17 | 20° 6 | W 2 | |
| T 3 | 2 49 49 | 10°39'52 | 23°16 | 4°11 | 29°47 | 17° 1 | 23°49 | 3°58 | 7°28 | 18°17 | 6° 8 | 19°42 | 18°24 | 14°23 | 20° 9 | T 3 | |
| F 4 | 2 53 45 | 11°39'39 | 5♁18 | 4°46 | 1♁ 2 | 17°42 | 23°46 | 3°56 | 7°27 | 18°18 | 6° 7 | 19°43 | 18°20 | 14°30 | 20°12 | F 4 | |
| S 5 | 2 57 42 | 12°39'28 | 17°12 | 5°16 | 2°17 | 18°23 | 23°43 | 3°54 | 7°26 | 18°20 | 6° 6 | 19°R44 | 18°17 | 14°37 | 20°15 | S 5 | |
| S 6 | 3 1 38 | 13°39'18 | 29° 2 | 5°40 | 3°32 | 19° 4 | 23°40 | 3°52 | 7°26 | 18°21 | 6° 5 | 19°44 | 18°14 | 14°43 | 20°19 | S 6 | |
| M 7 | 3 5 35 | 14°39'11 | 10♁50 | 5°57 | 4°47 | 19°46 | 23°38 | 3°50 | 7°25 | 18°22 | 6° 3 | 19°42 | 18°11 | 14°50 | 20°22 | M 7 | |
| T 8 | 3 9 31 | 15°39'06 | 22°38 | 6° 7 | 6° 2 | 20°27 | 23°35 | 3°47 | 7°25 | 18°24 | 6° 2 | 19°39 | 18° 8 | 14°57 | 20°26 | T 8 | |
| W 9 | 3 13 28 | 16°39'02 | 4♁28 | 6°R 9 | 7°17 | 21° 8 | 23°33 | 3°45 | 7°25 | 18°25 | 6° 1 | 19°35 | 18° 5 | 15° 3 | 20°29 | W 9 | |
| T 10 | 3 17 25 | 17°39'01 | 16°23 | 6° 2 | 8°32 | 21°49 | 23°32 | 3°42 | 7°24 | 18°26 | 6° 0 | 19°30 | 18° 1 | 15°10 | 20°33 | T 10 | |
| F 11 | 3 21 21 | 18°39'01 | 28°24 | 5°47 | 9°48 | 22°31 | 23°30 | 3°40 | 7°24 | 18°28 | 5°59 | 19°25 | 17°58 | 15°17 | 20°36 | F 11 | |
| S 12 | 3 25 18 | 19°39'03 | 10♁33 | 5°23 | 11° 3 | 23°12 | 23°29 | 3°37 | 7°24 | 18°29 | 5°58 | 19°20 | 17°55 | 15°23 | 20°40 | S 12 | |
| S 13 | 3 29 14 | 20°39'06 | 22°54 | 4°48 | 12°18 | 23°54 | 23°27 | 3°34 | 7°23 | 18°30 | 5°57 | 19°16 | 17°52 | 15°30 | 20°44 | S 13 | |
| M14 | 3 33 11 | 21°39'11 | 5♁29 | 4° 5 | 13°33 | 24°35 | 23°26 | 3°31 | 7°23 | 18°32 | 5°56 | 19°13 | 17°49 | 15°37 | 20°48 | M14 | |
| T 15 | 3 37 7 | 22°39'18 | 18°21 | 3°11 | 14°49 | 25°17 | 23°26 | 3°28 | 7°23 | 18°33 | 5°55 | 19°D12 | 17°45 | 15°43 | 20°52 | T 15 | |
| W16 | 3 41 4 | 23°39'26 | 1♁35 | 2°10 | 16° 4 | 25°58 | 23°25 | 3°25 | 7°D23 | 18°34 | 5°54 | 19°12 | 17°42 | 15°50 | 20°56 | W16 | |
| T 17 | 3 45 0 | 24°39'35 | 15°12 | 1° 1 | 17°19 | 26°40 | 23°25 | 3°22 | 7°23 | 18°35 | 5°52 | 19°13 | 17°39 | 15°56 | 21° 0 | T 17 | |
| F 18 | 3 48 57 | 25°39'46 | 29°15 | 29♁46 | 18°34 | 27°22 | 23°D24 | 3°18 | 7°23 | 18°36 | 5°51 | 19°15 | 17°36 | 16° 3 | 21° 4 | F 18 | |
| S 19 | 3 52 54 | 26°39'59 | 13°V43 | 28°27 | 19°49 | 28° 3 | 23°24 | 3°15 | 7°23 | 18°37 | 5°50 | 19°R16 | 17°33 | 16°10 | 21° 8 | S 19 | |
| S 20 | 3 56 50 | 27°40'12 | 28°33 | 27° 8 | 21° 5 | 28°45 | 23°25 | 3°12 | 7°23 | 18°38 | 5°49 | 19°15 | 17°30 | 16°16 | 21°12 | S 20 | |
| M21 | 4 0 47 | 28°40'28 | 13♁40 | 25°49 | 22°20 | 29°27 | 23°25 | 3° 8 | 7°24 | 18°39 | 5°48 | 19°13 | 17°26 | 16°23 | 21°16 | M21 | |
| T 22 | 4 4 43 | 29°40'45 | 28°55 | 24°34 | 23°35 | 0♁ 9 | 23°26 | 3° 4 | 7°24 | 18°40 | 5°47 | 19° 9 | 17°23 | 16°30 | 21°21 | T 22 | |
| W23 | 4 8 40 | 0♁41'04 | 14♁ 8 | 23°25 | 24°51 | 0°51 | 23°27 | 3° 1 | 7°24 | 18°41 | 5°46 | 19° 4 | 17°20 | 16°36 | 21°25 | W23 | |
| T 24 | 4 12 36 | 1°41'24 | 29° 8 | 22°25 | 26° 6 | 1°33 | 23°28 | 2°57 | 7°25 | 18°42 | 5°45 | 18°57 | 17°17 | 16°43 | 21°29 | T 24 | |
| F 25 | 4 16 33 | 2°41'47 | 13♁47 | 21°35 | 27°21 | 2°15 | 23°29 | 2°53 | 7°25 | 18°43 | 5°44 | 18°50 | 17°14 | 16°50 | 21°34 | F 25 | |
| S 26 | 4 20 29 | 3°42'11 | 27°59 | 20°55 | 28°37 | 2°57 | 23°30 | 2°49 | 7°25 | 18°44 | 5°43 | 18°44 | 17°11 | 16°56 | 21°38 | S 26 | |
| S 27 | 4 24 26 | 4°42'37 | 11♁41 | 20°27 | 29°52 | 3°39 | 23°32 | 2°45 | 7°26 | 18°45 | 5°42 | 18°40 | 17° 7 | 17° 3 | 21°43 | S 27 | |
| M28 | 4 28 23 | 5°43'04 | 24°54 | 20°11 | 1♁ 7 | 4°21 | 23°34 | 2°41 | 7°27 | 18°46 | 5°41 | 18°38 | 17° 4 | 17°10 | 21°48 | M28 | |
| T 29 | 4 32 19 | 6°43'34 | 7♁41 | 20°D 6 | 2°23 | 5° 3 | 23°36 | 2°37 | 7°27 | 18°46 | 5°40 | 18°D37 | 17° 1 | 17°16 | 21°52 | T 29 | |
| W30 | 4 36 16 | 7♁44'05 | 20♁ 6 | 20♁12 | 3♁38 | 5♁46 | 23♁38 | 2♁33 | 7♁28 | 18♁47 | 5♁39 | 18♁38 | 16♁58 | 17♁23 | 21♁57 | W30 | |

Delta T = 19m40s

DECEMBER 2591

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|------|--------|-------|--------|-------|-------|-------|------|-----|
| T 1 | 4 40 12 | 8♁44'38 | 2♁15 | 20♁29 | 4♁53 | 6♁28 | 23♁41 | 2°R28 | 7♁29 | 18♁48 | 5°R38 | 18♁39 | 16♁55 | 17♁30 | 22♁2 | T 1 | |
| F 2 | 4 44 9 | 9°45'12 | 14°11 | 20°55 | 6° 9 | 7°10 | 23°43 | 2♁24 | 7°29 | 18°48 | 5♁38 | 18°R40 | 16°51 | 17°36 | 22° 6 | F 2 | |
| S 3 | 4 48 5 | 10°45'49 | 26° 1 | 21°29 | 7°24 | 7°53 | 23°46 | 2°20 | 7°30 | 18°49 | 5°37 | 18°40 | 16°48 | 17°43 | 22°11 | S 3 | |
| S 4 | 4 52 2 | 11°46'27 | 7♁47 | 22°12 | 8°40 | 8°35 | 23°49 | 2°15 | 7°31 | 18°50 | 5°36 | 18°37 | 16°45 | 17°50 | 22°16 | S 4 | |
| M 5 | 4 55 58 | 12°47'06 | 19°35 | 23° 0 | 9°55 | 9°18 | 23°52 | 2°11 | 7°32 | 18°50 | 5°35 | 18°33 | 16°42 | 17°56 | 22°21 | M 5 | |
| T 6 | 4 59 55 | 13°47'47 | 1♁26 | 23°55 | 11°10 | 10° 0 | 23°56 | 2° 6 | 7°33 | 18°51 | 5°34 | 18°26 | 16°39 | 18° 3 | 22°26 | T 6 | |
| W 7 | 5 3 52 | 14°48'29 | 13°23 | 24°56 | 12°26 | 10°43 | 23°59 | 2° 2 | 7°34 | 18°51 | 5°33 | 18°16 | 16°36 | 18°10 | 22°31 | W 7 | |
| T 8 | 5 7 48 | 15°49'13 | 25°26 | 26° 0 | 13°41 | 11°26 | 24° 3 | 1°57 | 7°35 | 18°52 | 5°32 | 18° 5 | 16°32 | 18°16 | 22°36 | T 8 | |
| F 9 | 5 11 45 | 16°49'58 | 7♁38 | 27° 9 | 14°57 | 12° 8 | 24° 7 | 1°52 | 7°36 | 18°52 | 5°31 | 17°53 | 16°29 | 18°23 | 22°41 | F 9 | |
| S 10 | 5 15 41 | 17°50'44 | 20° 0 | 28°21 | 16°12 | 12°51 | 24°12 | 1°48 | 7°37 | 18°53 | 5°31 | 17°42 | 16°26 | 18°30 | 22°47 | S 10 | |
| S 11 | 5 19 38 | 18°51'31 | 2♁31 | 29°36 | 17°28 | 13°34 | 24°16 | 1°43 | 7°38 | 18°53 | 5°30 | 17°32 | 16°23 | 18°36 | 22°52 | S 11 | |
| M12 | 5 23 34 | 19°52'19 | 15°14 | 0♁53 | 18°43 | 14°17 | 24°21 | 1°38 | 7°40 | 18°53 | 5°29 | 17°24 | 16°20 | 18°43 | 22°57 | M12 | |
| T 13 | 5 27 31 | 20°53'08 | 28°10 | 2°13 | 19°59 | 15° 0 | 24°25 | 1°33 | 7°41 | 18°54 | 5°28 | 17°19 | 16°17 | 18°50 | 23° 2 | T 13 | |
| W14 | 5 31 27 | 21°53'58 | 11♁22 | 3°34 | 21°14 | 15°43 | 24°30 | 1°29 | 7°42 | 18°54 | 5°28 | 17°17 | 16°13 | 18°56 | 23° 7 | W14 | |
| T 15 | 5 35 24 | 22°54'48 | 24°51 | 4°57 | 22°30 | 16°26 | 24°35 | 1°24 | 7°44 | 18°54 | 5°27 | 17°D16 | 16°10 | 19° 3 | 23°13 | T 15 | |
| F 16 | 5 39 21 | 23°55'40 | 8°V40 | 6°21 | 23°45 | 17° 9 | 24°41 | 1°19 | 7°45 | 18°54 | 5°26 | 17°17 | 16° 7 | 19°10 | 23°18 | F 16 | |
| S 17 | 5 43 17 | 24°56'32 | 22°50 | 7°47 | 25° 0 | 17°52 | 24°46 | 1°14 | 7°47 | 18°54 | 5°25 | 17°R17 | 16° 4 | 19°16 | 23°24 | S 17 | |
| S 18 | 5 47 14 | 25°57'24 | 7♁20 | 9°13 | 26°16 | 18°35 | 24°52 | 1° 9 | 7°48 | 18°55 | 5°25 | 17°15 | 16° 1 | 19°23 | 23°29 | S 18 | |
| M19 | 5 51 10 | 26°58'18 | 22° 8 | 10°40 | 27°31 | 19°18 | 24°58 | 1° 4 | 7°50 | 18°55 | 5°24 | 17°11 | 15°57 | 19°30 | 23°34 | M19 | |
| T 20 | 5 55 7 | 27°59'12 | 7♁ 6 | 12° 8 | 28°47 | 20° 1 | 25° 4 | 0°59 | 7°52 | 18°55 | 5°24 | 17° 5 | 15°54 | 19°36 | 23°40 | T 20 | |
| W21 | 5 59 3 | 29° 0'07 | 22° 8 | 13°37 | 0♁ 2 | 20°45 | 25°10 | 0°54 | 7°53 | 18°R55 | 5°23 | 16°55 | 15°51 | 19°43 | 23°45 | W21 | |
| T 22 | 6 3 0 | 0♁ 1'03 | 7♁ 4 | 15° 6 | 1°18 | 21°28 | 25°16 | 0°49 | 7°55 | 18°55 | 5°22 | 16°44 | 15°48 | 19°50 | 23°51 | T 22 | |
| F 23 | 6 6 56 | 1° 2'00 | 21°43 | 16°36 | 2°33 | 22°11 | 25°23 | 0°44 | 7°57 | 18°55 | 5°22 | 16°33 | 15°45 | 19°56 | 23°56 | F 23 | |
| S 24 | 6 10 53 | 2° 2'58 | 6♁ 0 | 18° 6 | 3°49 | 22°55 | 25°30 | 0°39 | 7°59 | 18°55 | 5°21 | 16°22 | 15°42 | 20° 3 | 24° 2 | S 24 | |
| S 25 | 6 14 50 | 3° 3'56 | 19°48 | 19°36 | 5° 4 | 23°38 | 25°37 | 0°35 | 8° 0 | 18°54 | 5°21 | 16°13 | 15°38 | 20°10 | 24° 8 | S 25 | |
| M26 | 6 18 46 | 4° 4'56 | 3♁ 8 | 21° 7 | 6°20 | 24°22 | 25°44 | 0°30 | 8° 2 | 18°54 | 5°20 | 16° 7 | 15°35 | 20°16 | 24°13 | M26 | |
| T 27 | 6 22 43 | 5° 5'56 | 16° 0 | 22°38 | 7°35 | 25° 5 | 25°51 | 0°25 | 8° 4 | 18°54 | 5°20 | 16° 4 | 15°32 | 20°23 | 24°19 | T 27 | |
| W28 | 6 26 39 | 6° 6'57 | 28°29 | 24° 9 | 8°50 | 25°49 | 25°58 | 0°20 | 8° 6 | 18°54 | 5°19 | 16° 2 | 15°29 | 20°30 | 24°25 | W28 | |
| T 29 | 6 30 36 | 7° 7'59 | 10♁39 | 25°41 | 10° 6 | 26°33 | 26° 6 | 0°15 | 8° 8 | 18°54 | 5°19 | 16° 2 | 15°26 | 20°36 | 24°30 | T 29 | |
| F 30 | 6 34 32 | 8° 9'02 | 22°36 | 27°12 | 11°21 | 27°16 | 26°13 | 0°10 | 8°10 | 18°53 | 5°18 | 16° 2 | 15°23 | 20°43 | 24°36 | F 30 | |
| S 31 | 6 38 29 | 9♁10'06 | 4♁25 | 28♁45 | 12♁37 | 28♁ 0 | 26♁21 | 0°5 | 8♁13 | 18♁53 | 5♁18 | 16♁ 1 | 15♁19 | 20♁50 | 24♁42 | S 31 | |

Delta T = 19m41s

ASTRODIENST EPHEMERIS for the year 2592
geocentric

JANUARY 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|---------|-----------|-------|-------|-------|-------|-------|---------|------|--------|-------|--------|-------|-------|-------|------|---|-----|
| S 1 | 6 42 25 | 10♈11'11" | 16♎12 | 0♈17 | 13♈52 | 28♈44 | 26♈29 | 0°R 0 | 8♈15 | 18°R53 | 5°R17 | 15°R58 | 15♎16 | 20♎57 | 24♈47 | S 1 | | |
| M 2 | 6 46 22 | 11°12'16" | 28° 1 | 1°49 | 15° 8 | 29°28 | 26°37 | 29♎55 | 8°17 | 18♎52 | 5♎17 | 15♎52 | 15°13 | 21° 3 | 24°53 | M 2 | | |
| T 3 | 6 50 19 | 12°13'22" | 9♈57 | 3°22 | 16°23 | 0♈12 | 26°46 | 29°51 | 8°19 | 18°52 | 5°17 | 15°42 | 15°10 | 21°10 | 24°59 | T 3 | | |
| W 4 | 6 54 15 | 13°14'29" | 22° 1 | 4°55 | 17°39 | 0°56 | 26°54 | 29°46 | 8°21 | 18°51 | 5°16 | 15°31 | 15° 7 | 21°17 | 25° 5 | W 4 | | |
| T 5 | 6 58 12 | 14°15'36" | 4♈16 | 6°28 | 18°54 | 1°40 | 27° 3 | 29°41 | 8°24 | 18°51 | 5°16 | 15°17 | 15° 3 | 21°23 | 25°10 | T 5 | | |
| F 6 | 7 2 8 | 15°16'43" | 16°42 | 8° 2 | 20°10 | 2°24 | 27°11 | 29°37 | 8°26 | 18°50 | 5°16 | 15° 2 | 15° 0 | 21°30 | 25°16 | F 6 | | |
| S 7 | 7 6 5 | 16°17'51" | 29°21 | 9°35 | 21°25 | 3° 8 | 27°20 | 29°32 | 8°28 | 18°50 | 5°15 | 14°48 | 14°57 | 21°37 | 25°22 | S 7 | | |
| S 8 | 7 10 1 | 17°18'59" | 12♎11 | 11° 9 | 22°41 | 3°52 | 27°29 | 29°27 | 8°31 | 18°49 | 5°15 | 14°35 | 14°54 | 21°43 | 25°28 | S 8 | | |
| M 9 | 7 13 58 | 18°20'07" | 25°11 | 12°44 | 23°56 | 4°36 | 27°38 | 29°23 | 8°33 | 18°49 | 5°15 | 14°25 | 14°51 | 21°50 | 25°34 | M 9 | | |
| T 10 | 7 17 55 | 19°21'15" | 8♈23 | 14°18 | 25°12 | 5°21 | 27°48 | 29°18 | 8°36 | 18°48 | 5°15 | 14°18 | 14°48 | 21°57 | 25°40 | T 10 | | |
| W11 | 7 21 51 | 20°22'22" | 21°45 | 15°53 | 26°27 | 6° 5 | 27°57 | 29°14 | 8°38 | 18°47 | 5°15 | 14°14 | 14°44 | 22° 3 | 25°45 | W11 | | |
| T 12 | 7 25 48 | 21°23'30" | 5♎19 | 17°28 | 27°43 | 6°49 | 28° 7 | 29° 9 | 8°41 | 18°47 | 5°14 | 14°13 | 14°41 | 22°10 | 25°51 | T 12 | | |
| F 13 | 7 29 44 | 22°24'37" | 19° 5 | 19° 4 | 28°58 | 7°34 | 28°16 | 29° 5 | 8°44 | 18°46 | 5°14 | 14°13 | 14°38 | 22°17 | 25°57 | F 13 | | |
| S 14 | 7 33 41 | 23°25'45" | 3♎ 4 | 20°40 | 0♈13 | 8°18 | 28°26 | 29° 1 | 8°46 | 18°45 | 5°14 | 14°13 | 14°35 | 22°23 | 26° 3 | S 14 | | |
| S 15 | 7 37 37 | 24°26'51" | 17°16 | 22°16 | 1°29 | 9° 2 | 28°36 | 28°57 | 8°49 | 18°44 | 5°14 | 14°11 | 14°32 | 22°30 | 26° 9 | S 15 | | |
| M16 | 7 41 34 | 25°27'58" | 1♎41 | 23°53 | 2°44 | 9°47 | 28°46 | 28°52 | 8°52 | 18°43 | 5°14 | 14° 7 | 14°29 | 22°37 | 26°15 | M16 | | |
| T 17 | 7 45 30 | 26°29'04" | 16°14 | 25°30 | 4° 0 | 10°31 | 28°56 | 28°48 | 8°54 | 18°43 | 5°14 | 14° 0 | 14°25 | 22°43 | 26°20 | T 17 | | |
| W18 | 7 49 27 | 27°30'10" | 0♈50 | 27° 7 | 5°15 | 11°16 | 29° 6 | 28°44 | 8°57 | 18°42 | 5°14 | 13°51 | 14°22 | 22°50 | 26°26 | W18 | | |
| T 19 | 7 53 24 | 28°31'16" | 15°23 | 28°45 | 6°31 | 12° 1 | 29°17 | 28°40 | 9° 0 | 18°41 | 5°D14 | 13°39 | 14°19 | 22°57 | 26°32 | T 19 | | |
| F 20 | 7 57 20 | 29°32'21" | 29°46 | 0♈23 | 7°46 | 12°45 | 29°27 | 28°36 | 9° 3 | 18°40 | 5°14 | 13°27 | 14°16 | 23° 3 | 26°38 | F 20 | | |
| S 21 | 8 1 17 | 0♈33'26" | 13♎51 | 2° 2 | 9° 1 | 13°30 | 29°38 | 28°33 | 9° 6 | 18°39 | 5°14 | 13°16 | 14°13 | 23°10 | 26°44 | S 21 | | |
| S 22 | 8 5 13 | 1°34'31" | 27°35 | 3°41 | 10°17 | 14°15 | 29°49 | 28°29 | 9° 9 | 18°38 | 5°14 | 13° 7 | 14° 9 | 23°17 | 26°50 | S 22 | | |
| M23 | 8 9 10 | 2°35'36" | 10♎53 | 5°21 | 11°32 | 15° 0 | 29°59 | 28°25 | 9°11 | 18°37 | 5°14 | 13° 0 | 14° 6 | 23°23 | 26°55 | M23 | | |
| T 24 | 8 13 6 | 3°36'40" | 23°47 | 7° 1 | 12°47 | 15°44 | 0♎10 | 28°22 | 9°14 | 18°36 | 5°14 | 12°56 | 14° 3 | 23°30 | 27° 1 | T 24 | | |
| W25 | 8 17 3 | 4°37'44" | 6♎19 | 8°42 | 14° 3 | 16°29 | 0°21 | 28°18 | 9°17 | 18°35 | 5°14 | 12°54 | 14° 0 | 23°37 | 27° 7 | W25 | | |
| T 26 | 8 20 59 | 5°38'48" | 18°33 | 10°23 | 15°18 | 17°14 | 0°33 | 28°15 | 9°20 | 18°34 | 5°14 | 12°D54 | 13°57 | 23°43 | 27°13 | T 26 | | |
| F 27 | 8 24 56 | 6°39'52" | 0♎32 | 12° 4 | 16°33 | 17°59 | 0°44 | 28°11 | 9°23 | 18°32 | 5°15 | 12°54 | 13°54 | 23°50 | 27°19 | F 27 | | |
| S 28 | 8 28 53 | 7°40'56" | 12°24 | 13°46 | 17°49 | 18°44 | 0°55 | 28° 8 | 9°26 | 18°31 | 5°15 | 12°R54 | 13°50 | 23°57 | 27°24 | S 28 | | |
| S 29 | 8 32 49 | 8°42'00" | 24°12 | 15°28 | 19° 4 | 19°29 | 1° 7 | 28° 5 | 9°30 | 18°30 | 5°15 | 12°53 | 13°47 | 24° 3 | 27°30 | S 29 | | |
| M30 | 8 36 46 | 9°43'03" | 6♎ 4 | 17°11 | 20°19 | 20°14 | 1°18 | 28° 2 | 9°33 | 18°29 | 5°15 | 12°49 | 13°44 | 24°10 | 27°36 | M30 | | |
| T 31 | 8 40 42 | 10°44'06" | 18♎ 2 | 18°54 | 21°35 | 20°59 | 1°30 | 27°II59 | 9°36 | 18♎28 | 5♎16 | 12°43 | 13°41 | 24°17 | 27°42 | T 31 | | |

Delta T = 19m41s

FEBRUARY 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|-----------|-------|--------|-------|-------|------|---------|-------|--------|------|--------|-------|-------|-------|------|---|-----|
| W 1 | 8 44 39 | 11°45'08" | 0♈12 | 20°37 | 22°50 | 21°44 | 1°42 | 27°R56 | 9♈39 | 18°R26 | 5♎16 | 12°R35 | 13♎38 | 24♎23 | 27♈47 | W 1 | | |
| T 2 | 8 48 35 | 12°46'10" | 12°35 | 22°20 | 24° 5 | 22°30 | 1°54 | 27°II53 | 9°42 | 18♎25 | 5°16 | 12°42 | 13°35 | 24°30 | 27°53 | T 2 | | |
| F 3 | 8 52 32 | 13°47'12" | 25°15 | 24° 3 | 25°21 | 23°15 | 2° 6 | 27°51 | 9°45 | 18°24 | 5°16 | 12°13 | 13°31 | 24°37 | 27°59 | F 3 | | |
| S 4 | 8 56 28 | 14°48'13" | 8♎10 | 25°47 | 26°36 | 24° 0 | 2°18 | 27°48 | 9°48 | 18°23 | 5°17 | 12° 2 | 13°28 | 24°43 | 28° 4 | S 4 | | |
| S 5 | 9 0 25 | 15°49'13" | 21°21 | 27°30 | 27°51 | 24°45 | 2°30 | 27°46 | 9°52 | 18°21 | 5°17 | 11°52 | 13°25 | 24°50 | 28°10 | S 5 | | |
| M 6 | 9 4 22 | 16°50'12" | 4♈45 | 29°12 | 29° 6 | 25°31 | 2°42 | 27°43 | 9°55 | 18°20 | 5°18 | 11°45 | 13°22 | 24°57 | 28°16 | M 6 | | |
| T 7 | 9 8 18 | 17°51'10" | 18°21 | 0♈54 | 0♈22 | 26°16 | 2°54 | 27°41 | 9°58 | 18°18 | 5°18 | 11°40 | 13°19 | 25° 4 | 28°21 | T 7 | | |
| W 8 | 9 12 15 | 18°52'07" | 2°Y 6 | 2°35 | 1°37 | 27° 2 | 3° 7 | 27°39 | 10° 1 | 18°17 | 5°18 | 11°37 | 13°15 | 25°10 | 28°27 | W 8 | | |
| T 9 | 9 16 11 | 19°53'03" | 15°58 | 4°15 | 2°52 | 27°47 | 3°19 | 27°37 | 10° 5 | 18°16 | 5°19 | 11°D37 | 13°12 | 25°17 | 28°32 | T 9 | | |
| F 10 | 9 20 8 | 20°53'58" | 29°56 | 5°54 | 4° 7 | 28°33 | 3°32 | 27°35 | 10° 8 | 18°14 | 5°19 | 11°38 | 13° 9 | 25°24 | 28°38 | F 10 | | |
| S 11 | 9 24 4 | 21°54'52" | 13♎59 | 7°30 | 5°22 | 29°18 | 3°44 | 27°33 | 10°11 | 18°13 | 5°20 | 11°39 | 13° 6 | 25°30 | 28°43 | S 11 | | |
| S 12 | 9 28 1 | 22°55'44" | 28° 6 | 9° 5 | 6°38 | 0♈ 4 | 3°57 | 27°31 | 10°15 | 18°11 | 5°20 | 11°R39 | 13° 3 | 25°37 | 28°49 | S 12 | | |
| M13 | 9 31 57 | 23°56'35" | 12♎16 | 10°36 | 7°53 | 0°49 | 4°10 | 27°29 | 10°18 | 18°10 | 5°21 | 11°37 | 13° 0 | 25°44 | 28°54 | M13 | | |
| T 14 | 9 35 54 | 24°57'25" | 26°27 | 12° 4 | 9° 8 | 1°35 | 4°22 | 27°28 | 10°21 | 18° 8 | 5°21 | 11°34 | 12°56 | 25°50 | 29° 0 | T 14 | | |
| W15 | 9 39 51 | 25°58'13" | 10♎36 | 13°28 | 10°23 | 2°20 | 4°35 | 27°27 | 10°25 | 18° 7 | 5°22 | 11°28 | 12°53 | 25°57 | 29° 5 | W15 | | |
| T 16 | 9 43 47 | 26°59'00" | 24°40 | 14°48 | 11°38 | 3° 6 | 4°48 | 27°25 | 10°28 | 18° 5 | 5°23 | 11°21 | 12°50 | 26° 4 | 29°10 | T 16 | | |
| F 17 | 9 47 44 | 27°59'46" | 8♎34 | 16° 2 | 12°53 | 3°52 | 5° 1 | 27°24 | 10°32 | 18° 4 | 5°23 | 11°13 | 12°47 | 26°10 | 29°16 | F 17 | | |
| S 18 | 9 51 40 | 29° 0'30" | 22°15 | 17°10 | 14° 8 | 4°38 | 5°14 | 27°23 | 10°35 | 18° 2 | 5°24 | 11° 6 | 12°44 | 26°17 | 29°21 | S 18 | | |
| S 19 | 9 55 37 | 0♈ 1'13" | 5♎40 | 18°12 | 15°23 | 5°23 | 5°28 | 27°22 | 10°38 | 18° 1 | 5°25 | 11° 0 | 12°40 | 26°24 | 29°26 | S 19 | | |
| M20 | 9 59 33 | 1° 1'55" | 18°46 | 19° 5 | 16°38 | 6° 9 | 5°41 | 27°21 | 10°42 | 17°59 | 5°25 | 10°56 | 12°37 | 26°30 | 29°31 | M20 | | |
| T 21 | 10 3 30 | 2° 2'35" | 1♎33 | 19°51 | 17°53 | 6°55 | 5°54 | 27°20 | 10°45 | 17°57 | 5°26 | 10°54 | 12°34 | 26°37 | 29°37 | T 21 | | |
| W22 | 10 7 26 | 3° 3'14" | 14° 2 | 20°27 | 19° 8 | 7°41 | 6° 7 | 27°20 | 10°49 | 17°56 | 5°27 | 10°D53 | 12°31 | 26°44 | 29°42 | W22 | | |
| T 23 | 10 11 23 | 4° 3'53" | 26°15 | 20°54 | 20°23 | 8°27 | 6°21 | 27°19 | 10°52 | 17°54 | 5°27 | 10°54 | 12°28 | 26°50 | 29°47 | T 23 | | |
| F 24 | 10 15 19 | 5° 4'30" | 8♎16 | 21°11 | 21°38 | 9°13 | 6°34 | 27°19 | 10°55 | 17°53 | 5°28 | 10°56 | 12°25 | 26°57 | 29°52 | F 24 | | |
| S 25 | 10 19 16 | 6° 5'06" | 20° 9 | 21°R17 | 22°52 | 9°59 | 6°48 | 27°18 | 10°59 | 17°51 | 5°29 | 10°58 | 12°21 | 27° 4 | 29°57 | S 25 | | |
| S 26 | 10 23 13 | 7° 5'41" | 2♎ 0 | 21°14 | 24° 7 | 10°45 | 7° 1 | 27°18 | 11° 2 | 17°49 | 5°30 | 10°R59 | 12°18 | 27°10 | 0♈ 2 | S 26 | | |
| M27 | 10 27 9 | 8° 6'14" | 13°52 | 20°59 | 25°22 | 11°31 | 7°15 | 27°D18 | 11° 6 | 17°48 | 5°31 | 10°59 | 12°15 | 27°17 | 0° 7 | M27 | | |
| T 28 | 10 31 6 | 9° 6'47" | 25°51 | 20°35 | 26°37 | 12°17 | 7°29 | 27°18 | 11° 9 | 17°46 | 5°31 | 10°57 | 12°12 | 27°24 | 0°12 | T 28 | | |
| W29 | 10 35 2 | 10♈ 7'18" | 8♎ 2 | 20♈ 1 | 27♈52 | 13°33 | 7°42 | 27°II18 | 11♈13 | 17♎44 | 5♎32 | 10°45 | 12°11 | 27°30 | 0♈17 | W29 | | |

Delta T = 19m41s

ASTRODIENST EPHEMERIS for the year 2592
geocentric

MARCH 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|--------|------|--------|-------|-------|------|------|
| T 1 | 10 38 59 | 11♋ 7°48 | 20♌29 | 19♍R19 | 29♎6 | 13♏49 | 7♐56 | 27♑18 | 11♒16 | 17♓R43 | 5♈33 | 10♉R51 | 12♊ 6 | 27♋37 | 0♌21 | T 1 |
| F 2 | 10 42 55 | 12° 8'17 | 3♋14 | 18♋29 | 0♌21 | 14°35 | 8°10 | 27°19 | 11°20 | 17♓41 | 5°34 | 10♉46 | 12° 2 | 27°44 | 0°26 | F 2 |
| S 3 | 10 46 52 | 13° 8'44 | 16°20 | 17°33 | 1°36 | 15°21 | 8°24 | 27°19 | 11°23 | 17°39 | 5°35 | 10°41 | 11°59 | 27°51 | 0°31 | S 3 |
| S 4 | 10 50 48 | 14° 9'10 | 29°46 | 16°32 | 2°51 | 16° 7 | 8°38 | 27°20 | 11°27 | 17°38 | 5°36 | 10°37 | 11°56 | 27°57 | 0°36 | S 4 |
| M 5 | 10 54 45 | 15° 9'34 | 13♋31 | 15°28 | 4° 5 | 16°54 | 8°52 | 27°21 | 11°30 | 17°36 | 5°37 | 10°34 | 11°53 | 28° 4 | 0°40 | M 5 |
| T 6 | 10 58 42 | 16° 9'57 | 27°32 | 14°23 | 5°20 | 17°40 | 9° 6 | 27°21 | 11°33 | 17°34 | 5°38 | 10°32 | 11°50 | 28°11 | 0°45 | T 6 |
| W 7 | 11 2 38 | 17°10'18 | 11♌45 | 13°18 | 6°34 | 18°26 | 9°20 | 27°22 | 11°37 | 17°33 | 5°39 | 10°D31 | 11°46 | 28°17 | 0°49 | W 7 |
| T 8 | 11 6 35 | 18°10'37 | 26° 5 | 12°15 | 7°49 | 19°12 | 9°34 | 27°23 | 11°40 | 17°31 | 5°40 | 10°32 | 11°43 | 28°24 | 0°54 | T 8 |
| F 9 | 11 10 31 | 19°10'54 | 10♌28 | 11°15 | 9° 3 | 19°59 | 9°48 | 27°25 | 11°44 | 17°29 | 5°41 | 10°33 | 11°40 | 28°31 | 0°58 | F 9 |
| S 10 | 11 14 28 | 20°11'09 | 24°49 | 10°19 | 10°18 | 20°45 | 10° 2 | 27°26 | 11°47 | 17°28 | 5°42 | 10°35 | 11°37 | 28°37 | 1° 3 | S 10 |
| S 11 | 11 18 24 | 21°11'23 | 9♌ 6 | 9°29 | 11°32 | 21°31 | 10°16 | 27°27 | 11°51 | 17°26 | 5°43 | 10°36 | 11°34 | 28°44 | 1° 7 | S 11 |
| M12 | 11 22 21 | 22°11'34 | 23°16 | 8°44 | 12°47 | 22°17 | 10°30 | 27°29 | 11°54 | 17°24 | 5°44 | 10°R36 | 11°31 | 28°51 | 1°11 | M12 |
| T 13 | 11 26 17 | 23°11'43 | 7♌16 | 8° 6 | 14° 1 | 23° 4 | 10°45 | 27°30 | 11°57 | 17°23 | 5°45 | 10°36 | 11°27 | 28°57 | 1°15 | T 13 |
| W14 | 11 30 14 | 24°11'50 | 21° 7 | 7°34 | 15°16 | 23°50 | 10°59 | 27°32 | 12° 1 | 17°21 | 5°46 | 10°34 | 11°24 | 29° 4 | 1°19 | W14 |
| T 15 | 11 34 11 | 25°11'56 | 4♌46 | 7° 9 | 16°30 | 24°37 | 11°13 | 27°34 | 12° 4 | 17°19 | 5°47 | 10°32 | 11°21 | 29°11 | 1°24 | T 15 |
| F 16 | 11 38 7 | 26°11'58 | 18°13 | 6°51 | 17°44 | 25°23 | 11°27 | 27°36 | 12° 8 | 17°18 | 5°48 | 10°30 | 11°18 | 29°17 | 1°28 | F 16 |
| S 17 | 11 42 4 | 27°11'59 | 1♌26 | 6°40 | 18°58 | 26° 9 | 11°42 | 27°38 | 12°11 | 17°16 | 5°49 | 10°28 | 11°15 | 29°24 | 1°32 | S 17 |
| S 18 | 11 46 0 | 28°11'58 | 14°26 | 6°D36 | 20°13 | 26°56 | 11°56 | 27°40 | 12°14 | 17°14 | 5°50 | 10°27 | 11°12 | 29°31 | 1°35 | S 18 |
| M19 | 11 49 57 | 29°11'55 | 27°12 | 6°37 | 21°27 | 27°42 | 12°10 | 27°42 | 12°18 | 17°13 | 5°52 | 10°26 | 11° 8 | 29°38 | 1°39 | M19 |
| T 20 | 11 53 53 | 0♌11'50 | 9♌45 | 6°45 | 22°41 | 28°29 | 12°25 | 27°44 | 12°21 | 17°11 | 5°53 | 10°D26 | 11° 5 | 29°44 | 1°43 | T 20 |
| W21 | 11 57 50 | 1°11'44 | 2° 4 | 6°59 | 23°55 | 29°15 | 12°39 | 27°47 | 12°24 | 17°10 | 5°54 | 10°26 | 11° 2 | 29°51 | 1°47 | W21 |
| T 22 | 12 1 46 | 2°11'35 | 4♌12 | 7°18 | 25° 9 | 0♌ 2 | 12°54 | 27°49 | 12°28 | 17° 8 | 5°55 | 10°26 | 10°59 | 29°58 | 1°50 | T 22 |
| F 23 | 12 5 43 | 3°11'25 | 16°11 | 7°42 | 26°23 | 0°48 | 13° 8 | 27°52 | 12°31 | 17° 6 | 5°56 | 10°27 | 10°56 | 0♌ 4 | 1°54 | F 23 |
| S 24 | 12 9 39 | 4°11'13 | 28° 4 | 8°11 | 27°37 | 1°35 | 13°23 | 27°55 | 12°34 | 17° 5 | 5°57 | 10°28 | 10°52 | 0°11 | 1°58 | S 24 |
| S 25 | 12 13 36 | 5°10'59 | 9♌55 | 8°44 | 28°51 | 2°21 | 13°37 | 27°58 | 12°38 | 17° 3 | 5°59 | 10°29 | 10°49 | 0°18 | 2° 1 | S 25 |
| M26 | 12 17 33 | 6°10'44 | 21°48 | 9°22 | 30° 5 | 3° 8 | 13°51 | 28° 1 | 12°41 | 17° 2 | 6° 0 | 10°29 | 10°46 | 0°24 | 2° 4 | M26 |
| T 27 | 12 21 29 | 7°10'27 | 3♌46 | 10° 4 | 1°19 | 3°54 | 14° 6 | 28° 4 | 12°44 | 17° 0 | 6° 1 | 10°R29 | 10°43 | 0°31 | 2° 8 | T 27 |
| W28 | 12 25 26 | 8°10'09 | 15°56 | 10°49 | 2°32 | 4°41 | 14°20 | 28° 7 | 12°47 | 16°58 | 6° 2 | 10°29 | 10°40 | 0°38 | 2°11 | W28 |
| T 29 | 12 29 22 | 9° 9'48 | 28°20 | 11°38 | 3°46 | 5°28 | 14°35 | 28°10 | 12°50 | 16°57 | 6° 4 | 10°29 | 10°37 | 0°44 | 2°14 | T 29 |
| F 30 | 12 33 19 | 10° 9'26 | 11♌ 4 | 12°30 | 5° 0 | 6°14 | 14°50 | 28°14 | 12°54 | 16°55 | 6° 5 | 10°D29 | 10°33 | 0°51 | 2°17 | F 30 |
| S 31 | 12 37 15 | 11♌ 9'02 | 24♌11 | 13♌25 | 6♌14 | 7♌ 1 | 15° 4 | 28°17 | 12°57 | 16°54 | 6♌ 6 | 10♌29 | 10♌30 | 0♌58 | 2♌21 | S 31 |

Delta T = 19m42s

APRIL 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|------|--------|-------|------|------|------|
| S 1 | 12 41 12 | 12♌ 8'37 | 7♌42 | 14♌23 | 7♌27 | 7♌47 | 15♌19 | 28♌21 | 13♌ 0 | 16♌R52 | 6♌ 7 | 10♌29 | 10♌27 | 1♌ 4 | 2♌24 | S 1 |
| M 2 | 12 45 8 | 13° 8'09 | 21°38 | 15°24 | 8°41 | 8°34 | 15°33 | 28°24 | 13° 3 | 16♌51 | 6° 9 | 10°29 | 10°24 | 1°11 | 2°26 | M 2 |
| T 3 | 12 49 5 | 14° 7'40 | 5♌55 | 16°28 | 9°54 | 9°21 | 15°48 | 28°28 | 13° 6 | 16°50 | 6°10 | 10°R29 | 10°21 | 1°18 | 2°29 | T 3 |
| W 4 | 12 53 2 | 15° 7'08 | 20°30 | 17°34 | 11° 8 | 10° 7 | 16° 2 | 28°32 | 13° 9 | 16°48 | 6°11 | 10°29 | 10°17 | 1°25 | 2°32 | W 4 |
| T 5 | 12 56 58 | 16° 6'35 | 5♌17 | 18°42 | 12°21 | 10°54 | 16°17 | 28°36 | 13°12 | 16°47 | 6°13 | 10°29 | 10°14 | 1°31 | 2°35 | T 5 |
| F 6 | 13 0 55 | 17° 6'00 | 20° 7 | 19°52 | 13°35 | 11°41 | 16°31 | 28°40 | 13°15 | 16°45 | 6°14 | 10°28 | 10°11 | 1°38 | 2°37 | F 6 |
| S 7 | 13 4 51 | 18° 5'22 | 4♌54 | 21° 5 | 14°48 | 12°27 | 16°46 | 28°44 | 13°18 | 16°44 | 6°15 | 10°28 | 10° 8 | 1°45 | 2°40 | S 7 |
| S 8 | 13 8 48 | 19° 4'42 | 19°32 | 22°20 | 16° 2 | 13°14 | 17° 0 | 28°48 | 13°21 | 16°42 | 6°17 | 10°27 | 10° 5 | 1°51 | 2°43 | S 8 |
| M 9 | 13 12 44 | 20° 4'00 | 3♌54 | 23°36 | 17°15 | 14° 0 | 17°15 | 28°52 | 13°24 | 16°41 | 6°18 | 10°26 | 10° 2 | 1°58 | 2°45 | M 9 |
| T 10 | 13 16 41 | 21° 3'16 | 17°58 | 24°55 | 18°28 | 14°47 | 17°30 | 28°57 | 13°27 | 16°40 | 6°19 | 10°D26 | 9°58 | 2° 5 | 2°47 | T 10 |
| W11 | 13 20 37 | 22° 2'29 | 1♌42 | 26°15 | 19°41 | 15°34 | 17°44 | 29° 1 | 13°30 | 16°38 | 6°21 | 10°26 | 9°55 | 2°11 | 2°50 | W11 |
| T 12 | 13 24 34 | 23° 1'40 | 15° 8 | 27°37 | 20°54 | 16°20 | 17°59 | 29° 6 | 13°33 | 16°37 | 6°22 | 10°26 | 9°52 | 2°18 | 2°52 | T 12 |
| F 13 | 13 28 31 | 24° 0'49 | 28°17 | 29° 1 | 22° 7 | 17° 7 | 18°13 | 29°11 | 13°36 | 16°36 | 6°23 | 10°28 | 9°49 | 2°25 | 2°54 | F 13 |
| S 14 | 13 32 27 | 24°59'55 | 11♌ 9 | 0♌27 | 23°20 | 17°54 | 18°28 | 29°15 | 13°38 | 16°35 | 6°25 | 10°29 | 9°46 | 2°31 | 2°56 | S 14 |
| S 15 | 13 36 24 | 25°59'00 | 23°47 | 1°54 | 24°33 | 18°40 | 18°42 | 29°20 | 13°41 | 16°33 | 6°26 | 10°30 | 9°43 | 2°38 | 2°58 | S 15 |
| M16 | 13 40 20 | 26°58'02 | 6♌14 | 3°23 | 25°46 | 19°27 | 18°57 | 29°25 | 13°44 | 16°32 | 6°28 | 10°R30 | 9°39 | 2°45 | 3° 0 | M16 |
| T 17 | 13 44 17 | 27°57'02 | 18°30 | 4°53 | 26°59 | 20°13 | 19°11 | 29°30 | 13°47 | 16°31 | 6°29 | 10°30 | 9°36 | 2°52 | 3° 2 | T 17 |
| W18 | 13 48 13 | 28°55'59 | 0♌37 | 6°25 | 28°12 | 21° 0 | 19°25 | 29°35 | 13°49 | 16°30 | 6°30 | 10°29 | 9°33 | 2°58 | 3° 3 | W18 |
| T 19 | 13 52 10 | 29°54'55 | 12°37 | 7°59 | 29°25 | 21°47 | 19°40 | 29°40 | 13°52 | 16°29 | 6°32 | 10°27 | 9°30 | 3° 5 | 3° 5 | T 19 |
| F 20 | 13 56 6 | 0♌53'49 | 24°32 | 9°34 | 0♌37 | 22°33 | 19°54 | 29°45 | 13°55 | 16°28 | 6°33 | 10°24 | 9°27 | 3°12 | 3° 7 | F 20 |
| S 21 | 14 0 3 | 1°52'42 | 6♌24 | 11°11 | 1°50 | 23°20 | 20° 9 | 29°51 | 13°57 | 16°27 | 6°34 | 10°21 | 9°23 | 3°18 | 3° 8 | S 21 |
| S 22 | 14 3 59 | 2°51'32 | 18°15 | 12°50 | 3° 2 | 24° 6 | 20°23 | 29°56 | 14° 0 | 16°26 | 6°36 | 10°17 | 9°20 | 3°25 | 3°10 | S 22 |
| M23 | 14 7 56 | 3°50'21 | 0♌ 8 | 14°30 | 4°15 | 24°53 | 20°37 | 0♌ 1 | 14° 2 | 16°25 | 6°37 | 10°14 | 9°17 | 3°32 | 3°11 | M23 |
| T 24 | 14 11 53 | 4°49'08 | 12° 7 | 16°11 | 5°27 | 25°39 | 20°52 | 0° 7 | 14° 5 | 16°24 | 6°39 | 10°11 | 9°14 | 3°38 | 3°12 | T 24 |
| W25 | 14 15 49 | 5°47'53 | 24°15 | 17°54 | 6°40 | 26°26 | 21° 6 | 0°12 | 14° 7 | 16°23 | 6°40 | 10° 9 | 9°11 | 3°45 | 3°13 | W25 |
| T 26 | 14 19 46 | 6°46'36 | 6♌36 | 19°39 | 7°52 | 27°12 | 21°20 | 0°18 | 14°10 | 16°22 | 6°41 | 10°D 9 | 9° 8 | 3°52 | 3°15 | T 26 |
| F 27 | 14 23 42 | 7°45'18 | 19°16 | 21°26 | 9° 4 | 27°59 | 21°35 | 0°24 | 14°12 | 16°21 | 6°43 | 10° 9 | 9° 4 | 3°59 | 3°16 | F 27 |
| S 28 | 14 27 39 | 8°43'58 | 2♌17 | 23°13 | 10°17 | 28°45 | 21°49 | 0°29 | 14°14 | 16°20 | 6°44 | 10°10 | 9° 1 | 4° 5 | 3°17 | S 28 |
| S 29 | 14 31 35 | 9°42'37 | 15°44 | 25° 3 | 11°29 | 29°32 | 22° 3 | 0°35 | 14°17 | 16°19 | 6°46 | 10°12 | 8°58 | 4°12 | 3°17 | S 29 |
| M30 | 14 35 32 | 10♌41'14 | 29♌37 | 26♌54 | 12♌41 | 0♌18 | 22♌17 | 0♌41 | 14♌19 | 16♌18 | 6♌47 | 10♌13 | 8♌55 | 4♌19 | 3♌18 | M30 |

Delta T = 19m42s

ASTRODIENST EPHEMERIS for the year 2592
geocentric

MAY 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|-------|-------|-------|-------|-------|------|-------|--------|------|-------|------|------|------|------|
| T 1 | 14 39 28 | 11♃39'49 | 13♃58 | 28♃47 | 13♂53 | 1♃ 5 | 22♃31 | 0♂47 | 14♃21 | 16♃17 | 6♃48 | 10♃13 | 8♂52 | 4♃25 | 3♂19 | T 1 |
| W 2 | 14 43 25 | 12°38'22 | 28°41 | 0♂42 | 15° 5 | 1°51 | 22°45 | 0°53 | 14°23 | 16♃17 | 6°50 | 10♂12 | 8°48 | 4°32 | 3°20 | W 2 |
| T 3 | 14 47 22 | 13°36'54 | 13♃43 | 2°38 | 16°17 | 2°38 | 23° 0 | 0°59 | 14°26 | 16°16 | 6°51 | 10°10 | 8°45 | 4°39 | 3°20 | T 3 |
| F 4 | 14 51 18 | 14°35'24 | 28°53 | 4°35 | 17°29 | 3°24 | 23°14 | 1° 5 | 14°28 | 16°15 | 6°53 | 10° 6 | 8°42 | 4°45 | 3°21 | F 4 |
| S 5 | 14 55 15 | 15°33'52 | 14♂ 3 | 6°35 | 18°40 | 4°11 | 23°28 | 1°12 | 14°30 | 16°14 | 6°54 | 10° 0 | 8°39 | 4°52 | 3°21 | S 5 |
| S 6 | 14 59 11 | 16°32'18 | 29° 1 | 8°35 | 19°52 | 4°57 | 23°42 | 1°18 | 14°32 | 16°14 | 6°55 | 9°55 | 8°36 | 4°59 | 3°21 | S 6 |
| M 7 | 15 3 8 | 17°30'42 | 13♂41 | 10°38 | 21° 4 | 5°43 | 23°55 | 1°24 | 14°34 | 16°13 | 6°57 | 9°51 | 8°33 | 5° 6 | 3°22 | M 7 |
| T 8 | 15 7 4 | 18°29'04 | 27°57 | 12°42 | 22°15 | 6°30 | 24° 9 | 1°31 | 14°36 | 16°12 | 6°58 | 9°47 | 8°29 | 5°12 | 3°22 | T 8 |
| W 9 | 15 11 1 | 19°27'24 | 11♂46 | 14°47 | 23°27 | 7°16 | 24°23 | 1°37 | 14°38 | 16°12 | 6°59 | 9°46 | 8°26 | 5°19 | 3°22 | W 9 |
| T 10 | 15 14 57 | 20°25'41 | 25°10 | 16°53 | 24°38 | 8° 2 | 24°37 | 1°44 | 14°40 | 16°11 | 7° 1 | 9°D46 | 8°23 | 5°26 | 3°22 | T 10 |
| F 11 | 15 18 54 | 21°23'57 | 8♃11 | 19° 1 | 25°50 | 8°48 | 24°51 | 1°50 | 14°41 | 16°11 | 7° 2 | 9°47 | 8°20 | 5°32 | 3°22 | F 11 |
| S 12 | 15 22 51 | 22°22'11 | 20°52 | 21° 9 | 27° 1 | 9°35 | 25° 4 | 1°57 | 14°43 | 16°10 | 7° 3 | 9°48 | 8°17 | 5°39 | 3°22 | S 12 |
| S 13 | 15 26 47 | 23°20'22 | 3♂18 | 23°18 | 28°12 | 10°21 | 25°18 | 2° 3 | 14°45 | 16°10 | 7° 5 | 9°49 | 8°14 | 5°46 | 3°21 | S 13 |
| M14 | 15 30 44 | 24°18'32 | 15°30 | 25°28 | 29°23 | 11° 7 | 25°32 | 2°10 | 14°47 | 16° 9 | 7° 6 | 9°R49 | 8°10 | 5°52 | 3°21 | M14 |
| T 15 | 15 34 40 | 25°16'40 | 27°34 | 27°38 | 0♂34 | 11°53 | 25°45 | 2°17 | 14°48 | 16° 9 | 7° 8 | 9°47 | 8° 7 | 5°59 | 3°21 | T 15 |
| W16 | 15 38 37 | 26°14'46 | 9♃31 | 29°49 | 1°45 | 12°39 | 25°59 | 2°24 | 14°50 | 16° 9 | 7° 9 | 9°44 | 8° 4 | 6° 6 | 3°20 | W16 |
| T 17 | 15 42 33 | 27°12'51 | 21°25 | 1♂59 | 2°56 | 13°25 | 26°12 | 2°30 | 14°51 | 16° 8 | 7°10 | 9°38 | 8° 1 | 6°13 | 3°19 | T 17 |
| F 18 | 15 46 30 | 28°10'54 | 3♃17 | 4° 8 | 4° 7 | 14°11 | 26°26 | 2°37 | 14°53 | 16° 8 | 7°12 | 9°30 | 7°58 | 6°19 | 3°19 | F 18 |
| S 19 | 15 50 26 | 29° 8'55 | 15° 8 | 6°17 | 5°17 | 14°57 | 26°39 | 2°44 | 14°54 | 16° 8 | 7°13 | 9°21 | 7°54 | 6°26 | 3°18 | S 19 |
| S 20 | 15 54 23 | 0♂11 6'55 | 27° 1 | 8°25 | 6°28 | 15°43 | 26°52 | 2°51 | 14°56 | 16° 8 | 7°14 | 9°11 | 7°51 | 6°33 | 3°17 | S 20 |
| M21 | 15 58 20 | 1° 4'53 | 8♂58 | 10°31 | 7°38 | 16°29 | 27° 6 | 2°58 | 14°57 | 16° 7 | 7°15 | 9° 2 | 7°48 | 6°39 | 3°16 | M21 |
| T 22 | 16 2 16 | 2° 2'50 | 20°59 | 12°36 | 8°49 | 17°15 | 27°19 | 3° 5 | 14°59 | 16° 7 | 7°17 | 8°54 | 7°45 | 6°46 | 3°15 | T 22 |
| W23 | 16 6 13 | 3° 0'46 | 3♂10 | 14°39 | 9°59 | 18° 1 | 27°32 | 3°12 | 15° 0 | 16° 7 | 7°18 | 8°48 | 7°42 | 6°53 | 3°14 | W23 |
| T 24 | 16 10 9 | 3°58'40 | 15°31 | 16°40 | 11°10 | 18°47 | 27°45 | 3°20 | 15° 1 | 16° 7 | 7°19 | 8°44 | 7°39 | 6°59 | 3°13 | T 24 |
| F 25 | 16 14 6 | 4°56'33 | 28° 8 | 18°39 | 12°20 | 19°33 | 27°58 | 3°27 | 15° 2 | 16° 7 | 7°21 | 8°42 | 7°35 | 7° 6 | 3°12 | F 25 |
| S 26 | 16 18 2 | 5°54'25 | 11♃ 4 | 20°35 | 13°30 | 20°19 | 28°11 | 3°34 | 15° 4 | 16° 7 | 7°22 | 8°D42 | 7°32 | 7°13 | 3°11 | S 26 |
| S 27 | 16 21 59 | 6°52'16 | 24°23 | 22°29 | 14°40 | 21° 4 | 28°24 | 3°41 | 15° 5 | 16°D 7 | 7°23 | 8°42 | 7°29 | 7°20 | 3°10 | S 27 |
| M28 | 16 25 55 | 7°50'05 | 8♃ 9 | 24°20 | 15°50 | 21°50 | 28°37 | 3°48 | 15° 6 | 16° 7 | 7°24 | 8°R43 | 7°26 | 7°26 | 3° 8 | M28 |
| T 29 | 16 29 52 | 8°47'54 | 22°21 | 26° 8 | 16°59 | 22°36 | 28°50 | 3°56 | 15° 7 | 16° 7 | 7°25 | 8°42 | 7°23 | 7°33 | 3° 7 | T 29 |
| W30 | 16 33 49 | 9°45'41 | 7♂ 0 | 27°53 | 18° 9 | 23°22 | 29° 2 | 4° 3 | 15° 8 | 16° 7 | 7°27 | 8°39 | 7°20 | 7°40 | 3° 5 | W30 |
| T 31 | 16 37 45 | 10♂43'28 | 22♂ 0 | 29♂35 | 19♂19 | 24♃ 7 | 29♃15 | 4♂10 | 15♃ 9 | 16♃ 7 | 7♂28 | 8♂34 | 7♂16 | 7♂46 | 3♂ 4 | T 31 |

Delta T = 19m42s

JUNE 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|--------|-------|------|-------|------|-------|-------|------|
| F 1 | 16 41 42 | 11♂41'13 | 7♂14 | 1♂14 | 20♂28 | 24♃53 | 29♃27 | 4♂18 | 15♃10 | 16♃ 7 | 7♂29 | 8°R27 | 7♂13 | 7♂53 | 3°R 2 | F 1 |
| S 2 | 16 45 38 | 12°38'57 | 22°32 | 2°49 | 21°38 | 25°38 | 29°40 | 4°25 | 15°10 | 16° 8 | 7°30 | 8♂18 | 7°10 | 8° 0 | 3♂ 0 | S 2 |
| S 3 | 16 49 35 | 13°36'40 | 7♂42 | 4°22 | 22°47 | 26°24 | 29°52 | 4°33 | 15°11 | 16° 8 | 7°31 | 8° 8 | 7° 7 | 8° 6 | 2°58 | S 3 |
| M 4 | 16 53 31 | 14°34'21 | 22°35 | 5°51 | 23°56 | 27° 9 | 0♂ 5 | 4°40 | 15°12 | 16° 8 | 7°33 | 7°59 | 7° 4 | 8°13 | 2°56 | M 4 |
| T 5 | 16 57 28 | 15°32'01 | 7♂ 3 | 7°18 | 25° 5 | 27°55 | 0°17 | 4°48 | 15°13 | 16° 8 | 7°34 | 7°52 | 7° 0 | 8°20 | 2°54 | T 5 |
| W 6 | 17 1 24 | 16°29'39 | 21° 1 | 8°41 | 26°14 | 28°40 | 0°29 | 4°55 | 15°13 | 16° 9 | 7°35 | 7°47 | 6°57 | 8°27 | 2°52 | W 6 |
| T 7 | 17 5 21 | 17°27'16 | 4♃30 | 10° 0 | 27°23 | 29°25 | 0°41 | 5° 3 | 15°14 | 16° 9 | 7°36 | 7°45 | 6°54 | 8°33 | 2°50 | T 7 |
| F 8 | 17 9 18 | 18°24'51 | 17°32 | 11°16 | 28°32 | 0♂10 | 0°53 | 5°10 | 15°14 | 16°10 | 7°37 | 7°D44 | 6°51 | 8°40 | 2°48 | F 8 |
| S 9 | 17 13 14 | 19°22'25 | 0♂11 | 12°29 | 29°40 | 0°56 | 1° 5 | 5°18 | 15°15 | 16°10 | 7°38 | 7°45 | 6°48 | 8°47 | 2°46 | S 9 |
| S 10 | 17 17 11 | 20°19'58 | 12°32 | 13°38 | 0♂49 | 1°41 | 1°17 | 5°26 | 15°15 | 16°10 | 7°39 | 7°R45 | 6°45 | 8°53 | 2°44 | S 10 |
| M11 | 17 21 7 | 21°17'29 | 24°38 | 14°44 | 1°57 | 2°26 | 1°29 | 5°33 | 15°16 | 16°11 | 7°40 | 7°43 | 6°41 | 9° 0 | 2°41 | M11 |
| T 12 | 17 25 4 | 22°15'00 | 6♃36 | 15°46 | 3° 5 | 3°11 | 1°40 | 5°41 | 15°16 | 16°11 | 7°41 | 7°40 | 6°38 | 9° 7 | 2°39 | T 12 |
| W13 | 17 29 0 | 23°12'29 | 18°28 | 16°44 | 4°13 | 3°56 | 1°52 | 5°49 | 15°16 | 16°12 | 7°42 | 7°34 | 6°35 | 9°14 | 2°37 | W13 |
| T 14 | 17 32 57 | 24° 9'57 | 0♂19 | 17°39 | 5°21 | 4°41 | 2° 4 | 5°56 | 15°17 | 16°13 | 7°43 | 7°25 | 6°32 | 9°20 | 2°34 | T 14 |
| F 15 | 17 36 53 | 25° 7'23 | 12°10 | 18°30 | 6°29 | 5°26 | 2°15 | 6° 4 | 15°17 | 16°13 | 7°44 | 7°14 | 6°29 | 9°27 | 2°31 | F 15 |
| S 16 | 17 40 50 | 26° 4'49 | 24° 3 | 19°17 | 7°36 | 6°11 | 2°26 | 6°12 | 15°17 | 16°14 | 7°45 | 7° 2 | 6°26 | 9°34 | 2°29 | S 16 |
| S 17 | 17 44 47 | 27° 2'15 | 6♂ 1 | 20° 0 | 8°44 | 6°55 | 2°38 | 6°20 | 15°17 | 16°15 | 7°46 | 6°48 | 6°22 | 9°40 | 2°26 | S 17 |
| M18 | 17 48 43 | 27°59'39 | 18° 4 | 20°38 | 9°51 | 7°40 | 2°49 | 6°27 | 15°17 | 16°15 | 7°47 | 6°35 | 6°19 | 9°47 | 2°23 | M18 |
| T 19 | 17 52 40 | 28°57'02 | 0♂14 | 21°13 | 10°58 | 8°25 | 3° 0 | 6°35 | 15°R17 | 16°16 | 7°48 | 6°23 | 6°16 | 9°54 | 2°21 | T 19 |
| W20 | 17 56 36 | 29°54'25 | 12°32 | 21°43 | 12° 5 | 9° 9 | 3°11 | 6°43 | 15°17 | 16°17 | 7°49 | 6°14 | 6°13 | 10° 1 | 2°18 | W20 |
| T 21 | 18 0 33 | 0♂51'47 | 25° 0 | 22° 9 | 13°12 | 9°54 | 3°22 | 6°51 | 15°17 | 16°18 | 7°50 | 6° 7 | 6°10 | 10° 7 | 2°15 | T 21 |
| F 22 | 18 4 29 | 1°49'09 | 7♃41 | 22°31 | 14°19 | 10°39 | 3°32 | 6°58 | 15°17 | 16°18 | 7°51 | 6° 4 | 6° 6 | 10°14 | 2°12 | F 22 |
| S 23 | 18 8 26 | 2°46'30 | 20°38 | 22°48 | 15°25 | 11°23 | 3°43 | 7° 6 | 15°17 | 16°19 | 7°52 | 6° 2 | 6° 3 | 10°21 | 2° 9 | S 23 |
| S 24 | 18 12 22 | 3°43'51 | 3♃54 | 23° 1 | 16°32 | 12° 7 | 3°53 | 7°14 | 15°17 | 16°20 | 7°53 | 6° 2 | 6° 0 | 10°27 | 2° 6 | S 24 |
| M25 | 18 16 19 | 4°41'12 | 17°32 | 23° 8 | 17°38 | 12°52 | 4° 4 | 7°22 | 15°16 | 16°21 | 7°54 | 6° 2 | 5°57 | 10°34 | 2° 3 | M25 |
| T 26 | 18 20 16 | 5°38'32 | 1♂34 | 23°R12 | 18°44 | 13°36 | 4°14 | 7°30 | 15°16 | 16°22 | 7°55 | 6° 0 | 5°54 | 10°41 | 2° 0 | T 26 |
| W27 | 18 24 12 | 6°35'52 | 15°59 | 23°11 | 19°50 | 14°20 | 4°24 | 7°37 | 15°16 | 16°23 | 7°55 | 5°57 | 5°51 | 10°47 | 1°57 | W27 |
| T 28 | 18 28 9 | 7°33'11 | 0♂47 | 23° 5 | 20°55 | 15° 4 | 4°35 | 7°45 | 15°15 | 16°24 | 7°56 | 5°51 | 5°47 | 10°54 | 1°53 | T 28 |
| F 29 | 18 32 5 | 8°30'31 | 15°49 | 22°55 | 22° 1 | 15°49 | 4°45 | 7°53 | 15°15 | 16°25 | 7°57 | 5°43 | 5°44 | 11° 1 | 1°50 | F 29 |
| S 30 | 18 36 2 | 9♂27'50 | 0♂59 | 22♂41 | 23♂ 6 | 16♂33 | 4♂54 | 8♂ 1 | 15♃14 | 16♃26 | 7♂58 | 5♂32 | 5♂41 | 11♂ 8 | 1♂47 | S 30 |

Delta T = 19m43s

ASTRODIENST EPHEMERIS for the year 2592
geocentric

JULY 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|-------|------|-------|--------|-------|------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 18 39 58 | 10♌25'09 | 16♋5 | 22♍R23 | 24♎11 | 17♏17 | 5♄4 | 8♃9 | 15°R14 | 16♎27 | 7♄59 | 5°R21 | 5♌38 | 11♌14 | 1°R44 | S 1 | | | | | | | | |
| M 2 | 18 43 55 | 11°22'27 | 0♌58 | 22♋1 | 25°16 | 18° 0 | 5°14 | 8°16 | 15♋13 | 16°28 | 7°59 | 5♌11 | 5°35 | 11°21 | 1♌40 | M 2 | | | | | | | | |
| T 3 | 18 47 52 | 12°19'44 | 15°29 | 21°36 | 26°20 | 18°44 | 5°23 | 8°24 | 15°12 | 16°30 | 8° 0 | 5° 2 | 5°32 | 11°28 | 1°37 | T 3 | | | | | | | | |
| W 4 | 18 51 48 | 13°17'02 | 29°32 | 21° 8 | 27°25 | 19°28 | 5°33 | 8°32 | 15°12 | 16°31 | 8° 1 | 4°56 | 5°28 | 11°34 | 1°34 | W 4 | | | | | | | | |
| T 5 | 18 55 45 | 14°14'18 | 13♎6 | 20°37 | 28°29 | 20°12 | 5°42 | 8°40 | 15°11 | 16°32 | 8° 1 | 4°53 | 5°25 | 11°41 | 1°30 | T 5 | | | | | | | | |
| F 6 | 18 59 41 | 15°11'34 | 26°12 | 20° 4 | 29°33 | 20°55 | 5°51 | 8°48 | 15°10 | 16°33 | 8° 2 | 4°51 | 5°22 | 11°48 | 1°27 | F 6 | | | | | | | | |
| S 7 | 19 3 38 | 16° 8'49 | 8♌54 | 19°29 | 0♎37 | 21°39 | 6° 0 | 8°55 | 15° 9 | 16°34 | 8° 3 | 4°D51 | 5°19 | 11°55 | 1°23 | S 7 | | | | | | | | |
| S 8 | 19 7 34 | 17° 6'04 | 21°15 | 18°54 | 1°40 | 22°22 | 6° 9 | 9° 3 | 15° 8 | 16°36 | 8° 3 | 4°R51 | 5°16 | 12° 1 | 1°20 | S 8 | | | | | | | | |
| M 9 | 19 11 31 | 18° 3'18 | 3♎22 | 18°18 | 2°43 | 23° 6 | 6°18 | 9°11 | 15° 7 | 16°37 | 8° 4 | 4°50 | 5°12 | 12° 8 | 1°16 | M 9 | | | | | | | | |
| T 10 | 19 15 27 | 19° 0'32 | 15°18 | 17°42 | 3°46 | 23°49 | 6°27 | 9°19 | 15° 6 | 16°38 | 8° 4 | 4°48 | 5° 9 | 12°15 | 1°13 | T 10 | | | | | | | | |
| W11 | 19 19 24 | 19°57'46 | 27°10 | 17° 7 | 4°49 | 24°32 | 6°35 | 9°26 | 15° 5 | 16°40 | 8° 5 | 4°42 | 5° 6 | 12°21 | 1° 9 | W11 | | | | | | | | |
| T 12 | 19 23 21 | 20°54'59 | 9♌0 | 16°33 | 5°51 | 25°15 | 6°44 | 9°34 | 15° 4 | 16°41 | 8° 6 | 4°35 | 5° 3 | 12°28 | 1° 5 | T 12 | | | | | | | | |
| F 13 | 19 27 17 | 21°52'12 | 20°53 | 16° 1 | 6°53 | 25°59 | 6°52 | 9°42 | 15° 3 | 16°43 | 8° 6 | 4°24 | 5° 0 | 12°35 | 1° 2 | F 13 | | | | | | | | |
| S 14 | 19 31 14 | 22°49'25 | 2♌52 | 15°32 | 7°55 | 26°42 | 7° 0 | 9°50 | 15° 2 | 16°44 | 8° 7 | 4°13 | 4°57 | 12°42 | 0°58 | S 14 | | | | | | | | |
| S 15 | 19 35 10 | 23°46'38 | 14°56 | 15° 6 | 8°57 | 27°25 | 7° 8 | 9°57 | 15° 1 | 16°46 | 8° 7 | 4° 0 | 4°53 | 12°48 | 0°55 | S 15 | | | | | | | | |
| M16 | 19 39 7 | 24°43'51 | 27°10 | 14°44 | 9°58 | 28° 7 | 7°16 | 10° 5 | 15° 0 | 16°47 | 8° 8 | 3°48 | 4°50 | 12°55 | 0°51 | M16 | | | | | | | | |
| T 17 | 19 43 3 | 25°41'04 | 9♌32 | 14°26 | 10°59 | 28°50 | 7°23 | 10°12 | 14°58 | 16°49 | 8° 8 | 3°38 | 4°47 | 13° 2 | 0°47 | T 17 | | | | | | | | |
| W18 | 19 47 0 | 26°38'16 | 22° 3 | 14°12 | 11°59 | 29°33 | 7°31 | 10°20 | 14°57 | 16°50 | 8° 8 | 3°29 | 4°44 | 13° 8 | 0°44 | W18 | | | | | | | | |
| T 19 | 19 50 56 | 27°35'30 | 4♌46 | 14° 2 | 12°59 | 0♎16 | 7°38 | 10°28 | 14°56 | 16°52 | 8° 9 | 3°23 | 4°41 | 13°15 | 0°40 | T 19 | | | | | | | | |
| F 20 | 19 54 53 | 28°32'43 | 17°39 | 13°D58 | 13°59 | 0°58 | 7°46 | 10°35 | 14°54 | 16°53 | 8° 9 | 3°20 | 4°38 | 13°22 | 0°36 | F 20 | | | | | | | | |
| S 21 | 19 58 50 | 29°29'57 | 0♎46 | 13°58 | 14°59 | 1°41 | 7°53 | 10°43 | 14°53 | 16°55 | 8°10 | 3°D19 | 4°34 | 13°29 | 0°33 | S 21 | | | | | | | | |
| S 22 | 20 2 46 | 0♎27'11 | 14° 7 | 14° 4 | 15°58 | 2°23 | 8° 0 | 10°50 | 14°52 | 16°56 | 8°10 | 3°19 | 4°31 | 13°35 | 0°29 | S 22 | | | | | | | | |
| M23 | 20 6 43 | 1°24'26 | 27°45 | 14°15 | 16°57 | 3° 5 | 8° 6 | 10°58 | 14°50 | 16°58 | 8°10 | 3°R20 | 4°28 | 13°42 | 0°25 | M23 | | | | | | | | |
| T 24 | 20 10 39 | 2°21'41 | 11♌41 | 14°32 | 17°55 | 3°48 | 8°13 | 11° 5 | 14°48 | 17° 0 | 8°10 | 3°19 | 4°25 | 13°49 | 0°22 | T 24 | | | | | | | | |
| W25 | 20 14 36 | 3°18'57 | 25°55 | 14°54 | 18°53 | 4°30 | 8°20 | 11°13 | 14°47 | 17° 1 | 8°11 | 3°17 | 4°22 | 13°55 | 0°18 | W25 | | | | | | | | |
| T 26 | 20 18 32 | 4°16'14 | 10♎25 | 15°21 | 19°51 | 5°12 | 8°26 | 11°20 | 14°45 | 17° 3 | 8°11 | 3°13 | 4°18 | 14° 2 | 0°14 | T 26 | | | | | | | | |
| F 27 | 20 22 29 | 5°13'31 | 25° 8 | 15°54 | 20°48 | 5°54 | 8°32 | 11°28 | 14°44 | 17° 5 | 8°11 | 3° 7 | 4°15 | 14° 9 | 0°11 | F 27 | | | | | | | | |
| S 28 | 20 26 25 | 6°10'49 | 9♋57 | 16°32 | 21°44 | 6°36 | 8°38 | 11°35 | 14°42 | 17° 7 | 8°11 | 2°59 | 4°12 | 14°16 | 0° 7 | S 28 | | | | | | | | |
| S 29 | 20 30 22 | 7° 8'08 | 24°45 | 17°16 | 22°41 | 7°18 | 8°44 | 11°42 | 14°40 | 17° 8 | 8°12 | 2°50 | 4° 9 | 14°22 | 0° 3 | S 29 | | | | | | | | |
| M30 | 20 34 19 | 8° 5'27 | 9♎22 | 18° 6 | 23°36 | 7°59 | 8°50 | 11°50 | 14°39 | 17°10 | 8°12 | 2°42 | 4° 6 | 14°29 | 29♌59 | M30 | | | | | | | | |
| T 31 | 20 38 15 | 9♎2'46 | 23♎43 | 19♋0 | 24♎32 | 8♎41 | 8♄55 | 11♋57 | 14♋37 | 17♎12 | 8♄12 | 2♌36 | 4♌3 | 14♌36 | 29♋56 | T 31 | | | | | | | | |

Delta T = 19m43s

AUGUST 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|------|-------|--------|------|---|---|---|---|---|---|---|-----|
| W 1 | 20 42 12 | 10♎0'06 | 7♎40 | 20♋0 | 25♎26 | 9♎23 | 9♄1 | 12♋4 | 14°R35 | 17♎14 | 8♄12 | 2°R31 | 3♌59 | 14♌42 | 29°R53 | W 1 | | | | | | | | |
| T 2 | 20 46 8 | 10°57'26 | 21°13 | 21° 5 | 26°21 | 10° 4 | 9° 6 | 12°11 | 14♋33 | 17°16 | 8°12 | 2♌28 | 3°56 | 14°49 | 29♋49 | T 2 | | | | | | | | |
| F 3 | 20 50 5 | 11°54'47 | 4♌20 | 22°15 | 27°14 | 10°45 | 9°11 | 12°18 | 14°31 | 17°18 | 8°12 | 2°D28 | 3°53 | 14°56 | 29°45 | F 3 | | | | | | | | |
| S 4 | 20 54 1 | 12°52'08 | 17° 4 | 23°30 | 28° 7 | 11°27 | 9°16 | 12°26 | 14°29 | 17°20 | 8°12 | 2°28 | 3°50 | 15° 3 | 29°42 | S 4 | | | | | | | | |
| S 5 | 20 57 58 | 13°49'29 | 29°28 | 24°50 | 29° 0 | 12° 8 | 9°20 | 12°33 | 14°27 | 17°21 | 8°12 | 2°30 | 3°47 | 15° 9 | 29°38 | S 5 | | | | | | | | |
| M 6 | 21 1 54 | 14°46'51 | 11♎37 | 26°14 | 29°52 | 12°49 | 9°25 | 12°40 | 14°25 | 17°23 | 8°12 | 2°R31 | 3°43 | 15°16 | 29°35 | M 6 | | | | | | | | |
| T 7 | 21 5 51 | 15°44'14 | 23°35 | 27°44 | 0♌43 | 13°30 | 9°29 | 12°47 | 14°23 | 17°25 | 8°R12 | 2°30 | 3°40 | 15°23 | 29°31 | T 7 | | | | | | | | |
| W 8 | 21 9 48 | 16°41'36 | 5♌28 | 29°17 | 1°34 | 14°11 | 9°33 | 12°54 | 14°21 | 17°27 | 8°12 | 2°28 | 3°37 | 15°29 | 29°28 | W 8 | | | | | | | | |
| T 9 | 21 13 44 | 17°39'00 | 17°20 | 0♎55 | 2°24 | 14°51 | 9°37 | 13° 1 | 14°19 | 17°29 | 8°12 | 2°24 | 3°34 | 15°36 | 29°25 | T 9 | | | | | | | | |
| F 10 | 21 17 41 | 18°36'24 | 29°16 | 2°36 | 3°13 | 15°32 | 9°41 | 13° 8 | 14°17 | 17°31 | 8°12 | 2°19 | 3°31 | 15°43 | 29°21 | F 10 | | | | | | | | |
| S 11 | 21 21 37 | 19°33'48 | 11♌19 | 4°22 | 4° 2 | 16°13 | 9°44 | 13°14 | 14°15 | 17°33 | 8°12 | 2°12 | 3°28 | 15°50 | 29°18 | S 11 | | | | | | | | |
| S 12 | 21 25 34 | 20°31'13 | 23°31 | 6°10 | 4°49 | 16°53 | 9°48 | 13°21 | 14°13 | 17°35 | 8°12 | 2° 5 | 3°24 | 15°56 | 29°15 | S 12 | | | | | | | | |
| M13 | 21 29 30 | 21°28'39 | 5♌55 | 8° 2 | 5°36 | 17°33 | 9°51 | 13°28 | 14°11 | 17°37 | 8°12 | 1°57 | 3°21 | 16° 3 | 29°11 | M13 | | | | | | | | |
| T 14 | 21 33 27 | 22°26'06 | 18°31 | 9°56 | 6°22 | 18°14 | 9°54 | 13°35 | 14° 9 | 17°39 | 8°12 | 1°51 | 3°18 | 16°10 | 29° 8 | T 14 | | | | | | | | |
| W15 | 21 37 23 | 23°23'34 | 1♌20 | 11°53 | 7° 8 | 18°54 | 9°57 | 13°41 | 14° 7 | 17°41 | 8°12 | 1°46 | 3°15 | 16°16 | 29° 5 | W15 | | | | | | | | |
| T 16 | 21 41 20 | 24°21'02 | 24°22 | 13°52 | 7°52 | 19°34 | 10° 0 | 13°48 | 14° 5 | 17°43 | 8°12 | 1°43 | 3°12 | 16°23 | 29° 2 | T 16 | | | | | | | | |
| F 17 | 21 45 16 | 25°18'32 | 27°37 | 15°52 | 8°36 | 20°14 | 10° 2 | 13°54 | 14° 2 | 17°46 | 8°11 | 1°D42 | 3° 9 | 16°30 | 28°59 | F 17 | | | | | | | | |
| S 18 | 21 49 13 | 26°16'03 | 11♎3 | 17°53 | 9°18 | 20°53 | 10° 4 | 14° 1 | 14° 0 | 17°48 | 8°11 | 1°42 | 3° 5 | 16°37 | 28°56 | S 18 | | | | | | | | |
| S 19 | 21 53 10 | 27°13'35 | 24°40 | 19°56 | 10° 0 | 21°33 | 10° 6 | 14° 7 | 13°58 | 17°50 | 8°11 | 1°43 | 3° 2 | 16°43 | 28°53 | S 19 | | | | | | | | |
| M20 | 21 57 6 | 28°11'09 | 8♄29 | 21°59 | 10°40 | 22°13 | 10° 8 | 14°14 | 13°56 | 17°52 | 8°11 | 1°45 | 2°59 | 16°50 | 28°50 | M20 | | | | | | | | |
| T 21 | 22 1 3 | 29° 8'44 | 22°29 | 24° 2 | 11°20 | 22°52 | 10°10 | 14°20 | 13°53 | 17°54 | 8°10 | 1°46 | 2°56 | 16°57 | 28°47 | T 21 | | | | | | | | |
| W22 | 22 4 59 | 0♎6'20 | 6♎38 | 26° 5 | 11°58 | 23°32 | 10°11 | 14°26 | 13°51 | 17°56 | 8°10 | 1°R46 | 2°53 | 17° 3 | 28°44 | W22 | | | | | | | | |
| T 23 | 22 8 56 | 1° 3'58 | 20°55 | 28° 8 | 12°35 | 24°11 | 10°13 | 14°32 | 13°49 | 17°58 | 8°10 | 1°44 | 2°49 | 17°10 | 28°41 | T 23 | | | | | | | | |
| F 24 | 22 12 52 | 2° 1'37 | 5♋18 | 0♎10 | 13°12 | 24°50 | 10°14 | 14°39 | 13°46 | 18° 0 | 8° 9 | 1°42 | 2°46 | 17°17 | 28°38 | F 24 | | | | | | | | |
| S 25 | 22 16 49 | 2°59'18 | 19°42 | 2°12 | 13°46 | 25°29 | 10°15 | 14°45 | 13°44 | 18° 2 | 8° 9 | 1°38 | 2°43 | 17°24 | 28°36 | S 25 | | | | | | | | |
| S 26 | 22 20 45 | 3°57'01 | 4♎3 | 4°13 | 14°20 | 26° 8 | 10°15 | 14°51 | 13°42 | 18° 5 | 8° 9 | 1°34 | 2°40 | 17°30 | 28°33 | S 26 | | | | | | | | |
| M27 | 22 24 42 | 4°54'44 | 18°15 | 6°13 | 14°52 | 26°47 | 10°16 | 14°57 | 13°39 | 18° 7 | 8° 8 | 1°30 | 2°37 | 17°37 | 28°30 | M27 | | | | | | | | |
| T 28 | 22 28 39 | 5°52'29 | 2♎14 | 8°12 | 15°23 | 27°25 | 10°16 | 15° 3 | 13°37 | 18° 9 | 8° 8 | 1°27 | 2°34 | 17°44 | 28°28 | T 28 | | | | | | | | |
| W29 | 22 32 35 | 6°50'16 | 15°55 | 10°10 | 15°53 | 28° 4 | 10°R16 | 15° 8 | 13°35 | 18°11 | 8° 7 | 1°25 | 2°30 | 17°50 | 28°25 | W29 | | | | | | | | |
| T 30 | 22 36 32 | 7°48'03 | 29°17 | 12° 6 | 16°21 | 28°42 | 10°16 | 15°14 | 13°32 | 18°13 | 8° 7 | 1°D25 | 2°27 | 17°57 | 28°23 | T 30 | | | | | | | | |
| F 31 | 22 40 28 | 8♎45'52 | 12♌18 | 14♎2 | 16♌47 | 29♎20 | 10♄16 | 15♋20 | 13♋30 | 18♎16 | 8♄6 | 1♌25 | 2♌24 | 18♌4 | 28♋20 | F 31 | | | | | | | | |

Delta T = 19m43s

ASTRODIENST EPHEMERIS for the year 2592
geocentric

SEPTEMBER 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|------|-------|--------|------|-----|
| S 1 | 22 44 25 | 9♎43'42 | 24♌59 | 15♎56 | 17♌12 | 29♏59 | 10°R16 | 15♌26 | 13°R27 | 18♎18 | 8°R 6 | 1♌26 | 2♌21 | 18♎11 | 28°R18 | S 1 | |
| S 2 | 22 48 21 | 10°41'33 | 7♎23 | 17°49 | 17°35 | 0♌37 | 10♌15 | 15°31 | 13♎25 | 18°20 | 8♌ 5 | 1°28 | 2°18 | 18°17 | 28♌16 | S 2 | |
| M 3 | 22 52 18 | 11°39'26 | 19°33 | 19°40 | 17°56 | 1°14 | 10°14 | 15°37 | 13°23 | 18°22 | 8° 5 | 1°29 | 2°15 | 18°24 | 28°13 | M 3 | |
| T 4 | 22 56 14 | 12°37'20 | 1♎33 | 21°30 | 18°16 | 1°52 | 10°13 | 15°42 | 13°20 | 18°24 | 8° 4 | 1°30 | 2°11 | 18°31 | 28°11 | T 4 | |
| W 5 | 23 0 11 | 13°35'15 | 13°27 | 23°19 | 18°34 | 2°30 | 10°12 | 15°47 | 13°18 | 18°27 | 8° 4 | 1°R31 | 2° 8 | 18°38 | 28° 9 | W 5 | |
| T 6 | 23 4 8 | 14°33'11 | 25°20 | 25° 6 | 18°50 | 3° 7 | 10°10 | 15°53 | 13°16 | 18°29 | 8° 3 | 1°30 | 2° 5 | 18°44 | 28° 7 | T 6 | |
| F 7 | 23 8 4 | 15°31'09 | 7♌17 | 26°52 | 19° 3 | 3°44 | 10° 8 | 15°58 | 13°13 | 18°31 | 8° 2 | 1°29 | 2° 2 | 18°51 | 28° 5 | F 7 | |
| S 8 | 23 12 1 | 16°29'08 | 19°22 | 28°37 | 19°15 | 4°22 | 10° 6 | 16° 3 | 13°11 | 18°33 | 8° 2 | 1°27 | 1°59 | 18°58 | 28° 3 | S 8 | |
| S 9 | 23 15 57 | 17°27'08 | 1♌39 | 0♌21 | 19°25 | 4°59 | 10° 4 | 16° 8 | 13° 8 | 18°35 | 8° 1 | 1°25 | 1°55 | 19° 4 | 28° 2 | S 9 | |
| M10 | 23 19 54 | 18°25'09 | 14°10 | 2° 3 | 19°33 | 5°35 | 10° 2 | 16°13 | 13° 6 | 18°38 | 8° 1 | 1°24 | 1°52 | 19°11 | 28° 0 | M10 | |
| T 11 | 23 23 50 | 19°23'12 | 26°59 | 3°44 | 19°38 | 6°12 | 10° 0 | 16°18 | 13° 4 | 18°40 | 8° 0 | 1°22 | 1°49 | 19°18 | 27°58 | T 11 | |
| W12 | 23 27 47 | 20°21'17 | 10♎4 | 5°24 | 19°41 | 6°49 | 9°57 | 16°23 | 13° 1 | 18°42 | 7°59 | 1°21 | 1°46 | 19°25 | 27°57 | W12 | |
| T 13 | 23 31 43 | 21°19'23 | 23°27 | 7° 3 | 19°R42 | 7°25 | 9°54 | 16°28 | 12°59 | 18°44 | 7°58 | 1°20 | 1°43 | 19°31 | 27°55 | T 13 | |
| F 14 | 23 35 40 | 22°17'30 | 7♎6 | 8°40 | 19°40 | 8° 1 | 9°51 | 16°32 | 12°57 | 18°47 | 7°58 | 1°D20 | 1°40 | 19°38 | 27°54 | F 14 | |
| S 15 | 23 39 37 | 23°15'40 | 20°58 | 10°16 | 19°37 | 8°37 | 9°48 | 16°37 | 12°54 | 18°49 | 7°57 | 1°20 | 1°36 | 19°45 | 27°52 | S 15 | |
| S 16 | 23 43 33 | 24°13'51 | 5♌1 | 11°51 | 19°30 | 9°13 | 9°44 | 16°41 | 12°52 | 18°51 | 7°56 | 1°21 | 1°33 | 19°51 | 27°51 | S 16 | |
| M17 | 23 47 30 | 25°12'04 | 19°12 | 13°25 | 19°22 | 9°49 | 9°41 | 16°46 | 12°50 | 18°53 | 7°55 | 1°22 | 1°30 | 19°58 | 27°50 | M17 | |
| T 18 | 23 51 26 | 26°10'19 | 3♏26 | 14°58 | 19°11 | 10°25 | 9°37 | 16°50 | 12°47 | 18°55 | 7°55 | 1°22 | 1°27 | 20° 5 | 27°48 | T 18 | |
| W19 | 23 55 23 | 27° 8'37 | 17°42 | 16°29 | 18°57 | 11° 0 | 9°33 | 16°54 | 12°45 | 18°58 | 7°54 | 1°22 | 1°24 | 20°12 | 27°47 | W19 | |
| T 20 | 23 59 19 | 28° 6'56 | 1♌56 | 17°59 | 18°42 | 11°36 | 9°29 | 16°59 | 12°43 | 19° 0 | 7°53 | 1°R22 | 1°20 | 20°18 | 27°46 | T 20 | |
| F 21 | 0 3 16 | 29° 5'18 | 16° 5 | 19°29 | 18°24 | 12°11 | 9°24 | 17° 3 | 12°40 | 19° 2 | 7°52 | 1°22 | 1°17 | 20°25 | 27°45 | F 21 | |
| S 22 | 0 7 12 | 0♌3'41 | 0♌9 | 20°57 | 18° 3 | 12°46 | 9°20 | 17° 7 | 12°38 | 19° 4 | 7°51 | 1°22 | 1°14 | 20°32 | 27°44 | S 22 | |
| S 23 | 0 11 9 | 1° 2'07 | 14° 3 | 22°23 | 17°41 | 13°20 | 9°15 | 17°11 | 12°36 | 19° 6 | 7°50 | 1°D22 | 1°11 | 20°38 | 27°44 | S 23 | |
| M24 | 0 15 5 | 2° 0'35 | 27°47 | 23°49 | 17°16 | 13°55 | 9°10 | 17°14 | 12°34 | 19° 9 | 7°50 | 1°22 | 1° 8 | 20°45 | 27°43 | M24 | |
| T 25 | 0 19 2 | 2°59'04 | 11♎19 | 25°13 | 16°50 | 14°29 | 9° 5 | 17°18 | 12°31 | 19°11 | 7°49 | 1°22 | 1° 5 | 20°52 | 27°42 | T 25 | |
| W26 | 0 22 59 | 3°57'36 | 24°37 | 26°37 | 16°21 | 15° 4 | 9° 0 | 17°22 | 12°29 | 19°13 | 7°48 | 1°R22 | 1° 1 | 20°59 | 27°42 | W26 | |
| T 27 | 0 26 55 | 4°56'09 | 7♌40 | 27°59 | 15°51 | 15°38 | 8°55 | 17°25 | 12°27 | 19°15 | 7°47 | 1°22 | 0°58 | 21° 5 | 27°41 | T 27 | |
| F 28 | 0 30 52 | 5°54'45 | 20°28 | 29°19 | 15°20 | 16°11 | 8°49 | 17°29 | 12°25 | 19°17 | 7°46 | 1°22 | 0°55 | 21°12 | 27°41 | F 28 | |
| S 29 | 0 34 48 | 6°53'22 | 3♎2 | 0♎39 | 14°47 | 16°45 | 8°43 | 17°32 | 12°23 | 19°19 | 7°45 | 1°22 | 0°52 | 21°19 | 27°40 | S 29 | |
| S 30 | 0 38 45 | 7♌52'01 | 15♎21 | 1♎57 | 14♌12 | 17♌18 | 8♌38 | 17♌35 | 12♎21 | 19♎22 | 7♌44 | 1♌21 | 0♌49 | 21♎26 | 27♌40 | S 30 | |

Delta T = 19m44s

OCTOBER 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|--------|-------|-------|--------|--------|-------|-------|-------|-------|-------|--------|------|-----|
| M 1 | 0 42 41 | 8♌50'42 | 27♎29 | 3♎13 | 13°R37 | 17♌52 | 8°R32 | 17♌38 | 12°R19 | 19♎24 | 7°R43 | 1°R20 | 0♌46 | 21♎32 | 27°R40 | M 1 | |
| T 2 | 0 46 38 | 9°49'24 | 9♎28 | 4°28 | 13♌1 | 18°25 | 8♌25 | 17°41 | 12♎17 | 19°26 | 7♌42 | 1♌19 | 0°42 | 21°39 | 27♌40 | T 2 | |
| W 3 | 0 50 34 | 10°48'09 | 21°21 | 5°41 | 12°24 | 18°57 | 8°19 | 17°44 | 12°15 | 19°28 | 7°41 | 1°18 | 0°39 | 21°46 | 27°D40 | W 3 | |
| T 4 | 0 54 31 | 11°46'55 | 3♌14 | 6°53 | 11°47 | 19°30 | 8°13 | 17°47 | 12°13 | 19°30 | 7°40 | 1°17 | 0°36 | 21°52 | 27°40 | T 4 | |
| F 5 | 0 58 28 | 12°45'42 | 15°10 | 8° 3 | 11°10 | 20° 2 | 8° 6 | 17°50 | 12°11 | 19°32 | 7°39 | 1°D17 | 0°33 | 21°59 | 27°40 | F 5 | |
| S 6 | 1 2 24 | 13°44'32 | 27°13 | 9°11 | 10°34 | 20°35 | 8° 0 | 17°53 | 12° 9 | 19°34 | 7°38 | 1°18 | 0°30 | 22° 6 | 27°40 | S 6 | |
| S 7 | 1 6 21 | 14°43'23 | 9♌30 | 10°17 | 9°57 | 21° 7 | 7°53 | 17°55 | 12° 7 | 19°36 | 7°37 | 1°19 | 0°26 | 22°13 | 27°40 | S 7 | |
| M 8 | 1 10 17 | 15°42'16 | 22° 3 | 11°21 | 9°21 | 21°38 | 7°46 | 17°58 | 12° 5 | 19°38 | 7°36 | 1°20 | 0°23 | 22°19 | 27°41 | M 8 | |
| T 9 | 1 14 14 | 16°41'10 | 4♎56 | 12°22 | 8°47 | 22°10 | 7°39 | 18° 0 | 12° 3 | 19°40 | 7°35 | 1°21 | 0°20 | 22°26 | 27°41 | T 9 | |
| W10 | 1 18 10 | 17°40'06 | 18°11 | 13°22 | 8°13 | 22°41 | 7°32 | 18° 2 | 12° 1 | 19°42 | 7°34 | 1°22 | 0°17 | 22°33 | 27°42 | W10 | |
| T 11 | 1 22 7 | 18°39'04 | 1♀49 | 14°18 | 7°40 | 23°12 | 7°24 | 18° 4 | 12° 0 | 19°44 | 7°33 | 1°R22 | 0°14 | 22°39 | 27°42 | T 11 | |
| F 12 | 1 26 3 | 19°38'04 | 15°49 | 15°11 | 7° 9 | 23°43 | 7°17 | 18° 6 | 11°58 | 19°46 | 7°32 | 1°22 | 0°11 | 22°46 | 27°43 | F 12 | |
| S 13 | 1 30 0 | 20°37'06 | 0♌8 | 16° 1 | 6°40 | 24°13 | 7°10 | 18° 8 | 11°56 | 19°48 | 7°31 | 1°20 | 0° 7 | 22°53 | 27°44 | S 13 | |
| S 14 | 1 33 56 | 21°36'10 | 14°40 | 16°48 | 6°13 | 24°43 | 7° 2 | 18°10 | 11°54 | 19°50 | 7°30 | 1°18 | 0° 4 | 23° 0 | 27°45 | S 14 | |
| M15 | 1 37 53 | 22°35'17 | 29°18 | 17°31 | 5°47 | 25°14 | 6°55 | 18°12 | 11°53 | 19°52 | 7°29 | 1°15 | 0° 1 | 23° 6 | 27°46 | M15 | |
| T 16 | 1 41 50 | 23°34'25 | 13♏57 | 18°10 | 5°24 | 25°43 | 6°47 | 18°13 | 11°51 | 19°54 | 7°27 | 1°12 | 29♎58 | 23°13 | 27°47 | T 16 | |
| W17 | 1 45 46 | 24°33'36 | 28°30 | 18°44 | 5° 3 | 26°13 | 6°39 | 18°15 | 11°50 | 19°56 | 7°26 | 1°10 | 29°55 | 23°20 | 27°48 | W17 | |
| T 18 | 1 49 43 | 25°32'49 | 12♌52 | 19°13 | 4°44 | 26°42 | 6°31 | 18°16 | 11°48 | 19°58 | 7°25 | 1° 8 | 29°52 | 23°26 | 27°49 | T 18 | |
| F 19 | 1 53 39 | 26°32'04 | 27° 0 | 19°37 | 4°28 | 27°11 | 6°24 | 18°18 | 11°47 | 20° 0 | 7°24 | 1°D 8 | 29°48 | 23°33 | 27°50 | F 19 | |
| S 20 | 1 57 36 | 27°31'22 | 10♌53 | 19°55 | 4°14 | 27°40 | 6°16 | 18°19 | 11°45 | 20° 2 | 7°23 | 1° 8 | 29°45 | 23°40 | 27°51 | S 20 | |
| S 21 | 2 1 32 | 28°30'42 | 24°30 | 20° 6 | 4° 3 | 28° 8 | 6° 8 | 18°20 | 11°44 | 20° 4 | 7°22 | 1°10 | 29°42 | 23°47 | 27°53 | S 21 | |
| M22 | 2 5 29 | 29°30'04 | 7♎51 | 20°R11 | 3°54 | 28°36 | 6° 0 | 18°21 | 11°42 | 20° 5 | 7°21 | 1°11 | 29°39 | 23°53 | 27°54 | M22 | |
| T 23 | 2 9 25 | 0♎29'29 | 20°59 | 20° 8 | 3°47 | 29° 4 | 5°52 | 18°21 | 11°41 | 20° 7 | 7°20 | 1°13 | 29°36 | 24° 0 | 27°56 | T 23 | |
| W24 | 2 13 22 | 1°28'55 | 3♌53 | 19°58 | 3°43 | 29°31 | 5°44 | 18°22 | 11°40 | 20° 9 | 7°19 | 1°R13 | 29°32 | 24° 7 | 27°57 | W24 | |
| T 25 | 2 17 19 | 2°28'24 | 16°35 | 19°39 | 3°D41 | 29°58 | 5°35 | 18°23 | 11°38 | 20°11 | 7°17 | 1°12 | 29°29 | 24°14 | 27°59 | T 25 | |
| F 26 | 2 21 15 | 3°27'55 | 29° 6 | 19°12 | 3°42 | 0♌25 | 5°27 | 18°23 | 11°37 | 20°12 | 7°16 | 1° 9 | 29°26 | 24°20 | 28° 1 | F 26 | |
| S 27 | 2 25 12 | 4°27'28 | 11♎27 | 18°36 | 3°45 | 0°52 | 5°19 | 18°24 | 11°36 | 20°14 | 7°15 | 1° 5 | 29°23 | 24°27 | 28° 3 | S 27 | |
| S 28 | 2 29 8 | 5°27'02 | 23°38 | 17°52 | 3°51 | 1°18 | 5°11 | 18°24 | 11°35 | 20°16 | 7°14 | 0°59 | 29°20 | 24°34 | 28° 4 | S 28 | |
| M29 | 2 33 5 | 6°26'39 | 5♎41 | 16°59 | 3°58 | 1°44 | 5° 3 | 18°24 | 11°34 | 20°17 | 7°13 | 0°52 | 29°17 | 24°40 | 28° 6 | M29 | |
| T 30 | 2 37 1 | 7°26'18 | 17°38 | 15°59 | 4° 8 | 2° 9 | 4°55 | 18°R24 | 11°33 | 20°19 | 7°12 | 0°46 | 29°13 | 24°47 | 28° 9 | T 30 | |
| W31 | 2 40 58 | 8♎25'58 | 29♎30 | 14♎53 | 4♌20 | 2♌34 | 4♌47 | 18♌24 | 11♎32 | 20♎21 | 7♌11 | 0♌39 | 29♎10 | 24♎54 | 28♌11 | W31 | |

Delta T = 19m44s

ASTRODIENST EPHEMERIS for the year 2592
geocentric

NOVEMBER 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|--------|--------|-------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| T 1 | 2 44 54 | 9♏25'41 | 11♐21 | 13°R41 | 4♌34 | 2♊59 | 4°R39 | 18°R24 | 11°R31 | 20♏22 | 7°R 9 | 0°R34 | 29♏7 | 25♏1 | 28♐13 | T 1 | | | | | | | | |
| F 2 | 2 48 51 | 10°25'25 | 23°14 | 12♏26 | 4°51 | 3°24 | 4♌31 | 18♐24 | 11♏30 | 20°24 | 7♏8 | 0♌31 | 29°4 | 25°7 | 28°15 | F 2 | | | | | | | | |
| S 3 | 2 52 48 | 11°25'10 | 5♏15 | 11°10 | 5°9 | 3°48 | 4°23 | 18°23 | 11°29 | 20°26 | 7°7 | 0°29 | 29°1 | 25°14 | 28°17 | S 3 | | | | | | | | |
| S 4 | 2 56 44 | 12°24'58 | 17°27 | 9°56 | 5°29 | 4°11 | 4°15 | 18°23 | 11°28 | 20°27 | 7°6 | 0°D29 | 28°57 | 25°21 | 28°20 | S 4 | | | | | | | | |
| M 5 | 3 0 41 | 13°24'46 | 29°55 | 8°44 | 5°51 | 4°34 | 4°7 | 18°22 | 11°28 | 20°29 | 7°5 | 0°30 | 28°54 | 25°28 | 28°22 | M 5 | | | | | | | | |
| T 6 | 3 4 37 | 14°24'37 | 12♏45 | 7°38 | 6°15 | 4°57 | 3°59 | 18°21 | 11°27 | 20°30 | 7°4 | 0°32 | 28°51 | 25°34 | 28°25 | T 6 | | | | | | | | |
| W 7 | 3 8 34 | 15°24'29 | 26°0 | 6°40 | 6°41 | 5°20 | 3°51 | 18°20 | 11°26 | 20°31 | 7°3 | 0°R33 | 28°48 | 25°41 | 28°28 | W 7 | | | | | | | | |
| T 8 | 3 12 30 | 16°24'23 | 9♏42 | 5°51 | 7°8 | 5°42 | 3°43 | 18°20 | 11°26 | 20°33 | 7°2 | 0°32 | 28°45 | 25°48 | 28°30 | T 8 | | | | | | | | |
| F 9 | 3 16 27 | 17°24'19 | 23°52 | 5°13 | 7°37 | 6°3 | 3°36 | 18°18 | 11°25 | 20°34 | 7°0 | 0°30 | 28°42 | 25°54 | 28°33 | F 9 | | | | | | | | |
| S 10 | 3 20 23 | 18°24'16 | 8♏27 | 4°45 | 8°7 | 6°24 | 3°28 | 18°17 | 11°25 | 20°36 | 6°59 | 0°26 | 28°38 | 26°1 | 28°36 | S 10 | | | | | | | | |
| S 11 | 3 24 20 | 19°24'15 | 23°20 | 4°30 | 8°39 | 6°45 | 3°21 | 18°16 | 11°24 | 20°37 | 6°58 | 0°19 | 28°35 | 26°8 | 28°39 | S 11 | | | | | | | | |
| M12 | 3 28 17 | 20°24'16 | 8♏25 | 4°D26 | 9°13 | 7°5 | 3°13 | 18°15 | 11°24 | 20°38 | 6°57 | 0°12 | 28°32 | 26°15 | 28°42 | M12 | | | | | | | | |
| T 13 | 3 32 13 | 21°24'19 | 23°30 | 4°33 | 9°48 | 7°25 | 3°6 | 18°13 | 11°23 | 20°40 | 6°56 | 0°4 | 28°29 | 26°21 | 28°45 | T 13 | | | | | | | | |
| W14 | 3 36 10 | 22°24'24 | 8♏27 | 4°50 | 10°24 | 7°45 | 2°59 | 18°12 | 11°23 | 20°41 | 6°55 | 29♏56 | 28°26 | 26°28 | 28°48 | W14 | | | | | | | | |
| T 15 | 3 40 6 | 23°24'31 | 23°7 | 5°18 | 11°2 | 8°4 | 2°51 | 18°10 | 11°23 | 20°42 | 6°54 | 29°51 | 28°23 | 26°35 | 28°51 | T 15 | | | | | | | | |
| F 16 | 3 44 3 | 24°24'40 | 7♏25 | 5°54 | 11°41 | 8°22 | 2°44 | 18°8 | 11°23 | 20°43 | 6°53 | 29°47 | 28°19 | 26°41 | 28°54 | F 16 | | | | | | | | |
| S 17 | 3 47 59 | 25°24'51 | 21°19 | 6°39 | 12°21 | 8°40 | 2°37 | 18°6 | 11°22 | 20°45 | 6°52 | 29°D46 | 28°16 | 26°48 | 28°58 | S 17 | | | | | | | | |
| S 18 | 3 51 56 | 26°25'05 | 4♏51 | 7°31 | 13°3 | 8°57 | 2°31 | 18°4 | 11°22 | 20°46 | 6°51 | 29°46 | 28°13 | 26°55 | 29°1 | S 18 | | | | | | | | |
| M19 | 3 55 52 | 27°25'20 | 18°1 | 8°30 | 13°45 | 9°14 | 2°24 | 18°2 | 11°22 | 20°47 | 6°50 | 29°47 | 28°10 | 27°2 | 29°4 | M19 | | | | | | | | |
| T 20 | 3 59 49 | 28°25'37 | 0♌53 | 9°34 | 14°29 | 9°30 | 2°18 | 18°0 | 11°D22 | 20°48 | 6°49 | 29°R47 | 28°7 | 27°8 | 29°8 | T 20 | | | | | | | | |
| W21 | 4 3 46 | 29°25'56 | 13°30 | 10°42 | 15°13 | 9°46 | 2°11 | 17°57 | 11°22 | 20°49 | 6°48 | 29°46 | 28°3 | 27°15 | 29°11 | W21 | | | | | | | | |
| T 22 | 4 7 42 | 0♌26'17 | 25°55 | 11°55 | 15°59 | 10°1 | 2°5 | 17°55 | 11°22 | 20°50 | 6°46 | 29°43 | 28°0 | 27°22 | 29°15 | T 22 | | | | | | | | |
| F 23 | 4 11 39 | 1°26'39 | 8♏10 | 13°12 | 16°46 | 10°16 | 1°59 | 17°52 | 11°22 | 20°51 | 6°45 | 29°37 | 27°57 | 27°29 | 29°19 | F 23 | | | | | | | | |
| S 24 | 4 15 35 | 2°27'04 | 20°19 | 14°32 | 17°33 | 10°30 | 1°53 | 17°50 | 11°23 | 20°52 | 6°44 | 29°28 | 27°54 | 27°35 | 29°22 | S 24 | | | | | | | | |
| S 25 | 4 19 32 | 3°27'30 | 2♌21 | 15°54 | 18°22 | 10°44 | 1°47 | 17°47 | 11°23 | 20°53 | 6°43 | 29°17 | 27°51 | 27°42 | 29°26 | S 25 | | | | | | | | |
| M26 | 4 23 28 | 4°27'58 | 14°18 | 17°18 | 19°11 | 10°56 | 1°41 | 17°44 | 11°23 | 20°54 | 6°42 | 29°4 | 27°48 | 27°49 | 29°30 | M26 | | | | | | | | |
| T 27 | 4 27 25 | 5°28'27 | 26°11 | 18°45 | 20°1 | 11°9 | 1°36 | 17°41 | 11°24 | 20°55 | 6°41 | 28°51 | 27°44 | 27°55 | 29°34 | T 27 | | | | | | | | |
| W28 | 4 31 21 | 6°28'58 | 8♏2 | 20°12 | 20°52 | 11°20 | 1°31 | 17°38 | 11°24 | 20°56 | 6°40 | 28°38 | 27°41 | 28°2 | 29°38 | W28 | | | | | | | | |
| T 29 | 4 35 18 | 7°29'30 | 19°53 | 21°41 | 21°44 | 11°31 | 1°25 | 17°35 | 11°24 | 20°56 | 6°40 | 28°27 | 27°38 | 28°9 | 29°42 | T 29 | | | | | | | | |
| F 30 | 4 39 15 | 8♌30'04 | 1♏47 | 23♏11 | 22♌36 | 11♏41 | 1♌20 | 17♏32 | 11♏25 | 20♏57 | 6♌39 | 28♏19 | 27♏35 | 28♏16 | 29♏46 | F 30 | | | | | | | | |

Delta T = 19m44s

DECEMBER 2592

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 4 43 11 | 9♌30'38 | 13♏46 | 24♏42 | 23♌29 | 11♏51 | 1°R16 | 17°R29 | 11♏25 | 20♏58 | 6°R38 | 28°R13 | 27♏32 | 28♏22 | 29♐50 | S 1 | | | | | | | | |
| S 2 | 4 47 8 | 10°31'14 | 25°55 | 26°14 | 24°23 | 12°0 | 1♌11 | 17♏25 | 11°26 | 20°59 | 6♌37 | 28♏10 | 27°29 | 28°29 | 29°54 | S 2 | | | | | | | | |
| M 3 | 4 51 4 | 11°31'51 | 8♏18 | 27°46 | 25°17 | 12°8 | 1°6 | 17°22 | 11°27 | 20°59 | 6°36 | 28°D 9 | 27°25 | 28°36 | 29°58 | M 3 | | | | | | | | |
| T 4 | 4 55 1 | 12°32'29 | 21°1 | 29°18 | 26°12 | 12°16 | 1°2 | 17°18 | 11°27 | 21°0 | 6°35 | 28°R 9 | 27°22 | 28°42 | 0♌2 | T 4 | | | | | | | | |
| W 5 | 4 58 57 | 13°33'08 | 4♏7 | 0♌51 | 27°8 | 12°23 | 0°58 | 17°15 | 11°28 | 21°1 | 6°34 | 28°9 | 27°19 | 28°49 | 0°7 | W 5 | | | | | | | | |
| T 6 | 5 2 54 | 14°33'48 | 17°42 | 2°24 | 28°4 | 12°29 | 0°54 | 17°11 | 11°29 | 21°1 | 6°33 | 28°8 | 27°16 | 28°56 | 0°11 | T 6 | | | | | | | | |
| F 7 | 5 6 50 | 15°34'30 | 1♌47 | 3°57 | 29°1 | 12°34 | 0°51 | 17°7 | 11°30 | 21°2 | 6°32 | 28°4 | 27°13 | 29°3 | 0°15 | F 7 | | | | | | | | |
| S 8 | 5 10 47 | 16°35'12 | 16°22 | 5°30 | 29°59 | 12°39 | 0°47 | 17°3 | 11°31 | 21°2 | 6°31 | 27°58 | 27°9 | 29°9 | 0°20 | S 8 | | | | | | | | |
| S 9 | 5 14 44 | 17°35'55 | 1♏21 | 7°4 | 0♏57 | 12°43 | 0°44 | 16°59 | 11°32 | 21°3 | 6°31 | 27°49 | 27°6 | 29°16 | 0°24 | S 9 | | | | | | | | |
| M10 | 5 18 40 | 18°36'40 | 16°37 | 8°38 | 1°55 | 12°46 | 0°41 | 16°55 | 11°33 | 21°3 | 6°30 | 27°38 | 27°3 | 29°23 | 0°29 | M10 | | | | | | | | |
| T 11 | 5 22 37 | 19°37'26 | 1♏59 | 10°11 | 2°54 | 12°49 | 0°38 | 16°51 | 11°34 | 21°4 | 6°29 | 27°26 | 27°0 | 29°30 | 0°33 | T 11 | | | | | | | | |
| W12 | 5 26 33 | 20°38'13 | 17°15 | 11°45 | 3°54 | 12°50 | 0°35 | 16°47 | 11°35 | 21°4 | 6°28 | 27°16 | 26°57 | 29°36 | 0°38 | W12 | | | | | | | | |
| T 13 | 5 30 30 | 21°39'01 | 2♏14 | 13°19 | 4°54 | 12°51 | 0°32 | 16°43 | 11°36 | 21°4 | 6°28 | 27°7 | 26°54 | 29°43 | 0°43 | T 13 | | | | | | | | |
| F 14 | 5 34 26 | 22°39'51 | 16°49 | 14°52 | 5°54 | 12°R51 | 0°30 | 16°39 | 11°37 | 21°5 | 6°27 | 27°1 | 26°50 | 29°50 | 0°47 | F 14 | | | | | | | | |
| S 15 | 5 38 23 | 23°40'41 | 0♏55 | 16°26 | 6°55 | 12°50 | 0°28 | 16°34 | 11°38 | 21°5 | 6°26 | 26°57 | 26°47 | 29°56 | 0°52 | S 15 | | | | | | | | |
| S 16 | 5 42 19 | 24°41'33 | 14°32 | 18°0 | 7°56 | 12°49 | 0°26 | 16°30 | 11°40 | 21°5 | 6°25 | 26°56 | 26°44 | 0♌3 | 0°57 | S 16 | | | | | | | | |
| M17 | 5 46 16 | 25°42'27 | 27°43 | 19°33 | 8°58 | 12°46 | 0°24 | 16°26 | 11°41 | 21°5 | 6°25 | 26°56 | 26°41 | 0°10 | 1°2 | M17 | | | | | | | | |
| T 18 | 5 50 13 | 26°43'21 | 10♌31 | 21°7 | 10°0 | 12°43 | 0°23 | 16°21 | 11°42 | 21°6 | 6°24 | 26°55 | 26°38 | 0°17 | 1°6 | T 18 | | | | | | | | |
| W19 | 5 54 9 | 27°44'17 | 23°1 | 22°41 | 11°2 | 12°39 | 0°22 | 16°17 | 11°44 | 21°6 | 6°23 | 26°54 | 26°35 | 0°23 | 1°11 | W19 | | | | | | | | |
| T 20 | 5 58 6 | 28°45'14 | 5♏17 | 24°15 | 12°5 | 12°34 | 0°21 | 16°12 | 11°45 | 21°6 | 6°23 | 26°50 | 26°31 | 0°30 | 1°16 | T 20 | | | | | | | | |
| F 21 | 6 2 2 | 29°46'13 | 17°22 | 25°49 | 13°8 | 12°28 | 0°20 | 16°7 | 11°47 | 21°6 | 6°22 | 26°42 | 26°28 | 0°37 | 1°21 | F 21 | | | | | | | | |
| S 22 | 6 5 59 | 0♌47'12 | 29°21 | 27°23 | 14°12 | 12°21 | 0°19 | 16°3 | 11°49 | 21°6 | 6°21 | 26°32 | 26°25 | 0°44 | 1°26 | S 22 | | | | | | | | |
| S 23 | 6 9 55 | 1°48'12 | 11♏16 | 28°57 | 15°16 | 12°14 | 0°19 | 15°58 | 11°50 | 21°R 6 | 6°21 | 26°19 | 26°22 | 0°50 | 1°31 | S 23 | | | | | | | | |
| M24 | 6 13 52 | 2°49'13 | 23°9 | 0♌31 | 16°20 | 12°5 | 0°18 | 15°53 | 11°52 | 21°6 | 6°20 | 26°5 | 26°19 | 0°57 | 1°36 | M24 | | | | | | | | |
| T 25 | 6 17 49 | 3°50'15 | 5♏1 | 2°6 | 17°24 | 11°56 | 0°D18 | 15°49 | 11°54 | 21°6 | 6°20 | 25°49 | 26°15 | 1°4 | 1°41 | T 25 | | | | | | | | |
| W26 | 6 21 45 | 4°51'17 | 16°54 | 3°40 | 18°29 | 11°46 | 0°18 | 15°44 | 11°55 | 21°6 | 6°19 | 25°35 | 26°12 | 1°10 | 1°46 | W26 | | | | | | | | |
| T 27 | 6 25 42 | 5°52'20 | 28°48 | 5°15 | 19°34 | 11°35 | 0°19 | 15°39 | 11°57 | 21°6 | 6°19 | 25°22 | 26°9 | 1°17 | 1°51 | T 27 | | | | | | | | |
| F 28 | 6 29 38 | 6°53'24 | 10♌46 | 6°49 | 20°39 | 11°23 | 0°19 | 15°34 | 11°59 | 21°5 | 6°18 | 25°12 | 26°6 | 1°24 | 1°57 | F 28 | | | | | | | | |
| S 29 | 6 33 35 | 7°54'28 | 22°49 | 8°24 | 21°45 | 11°11 | 0°20 | 15°29 | 12°1 | 21°5 | 6°18 | 25°5 | 26°3 | 1°31 | 2°2 | S 29 | | | | | | | | |
| S 30 | 6 37 31 | 8°55'32 | 5♏1 | 9°59 | 22°51 | 10°57 | 0°21 | 15°24 | 12°3 | 21°5 | 6°17 | 25°0 | 26°0 | 1°37 | 2°7 | S 30 | | | | | | | | |
| M31 | 6 41 28 | 9♌56'37 | 17♏25 | 11♏35 | 23♏57 | 10♏43 | 0♌23 | 15♏19 | 12♏5 | 21♏5 | 6♌17 | 24♏59 | 25♏56 | 1♌44 | 2♏12 | M31 | | | | | | | | |

Delta T = 19m44s

ASTRODIENST EPHEMERIS for the year 2593
geocentric

JANUARY 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|--------|------|--------|-------|--------|-------|--------|-------|------|------|------|---|---|---|---|---|---|---|-----|
| T 1 | 6 45 24 | 10♄5742 | 0♃5 | 13♂10 | 25♁3 | 10♂R28 | 0♄24 | 15♂R14 | 12♃7 | 21♂R 4 | 6♂R17 | 24♂D59 | 25♁53 | 1♄51 | 2♁17 | T 1 | | | | | | | | |
| W 2 | 6 49 21 | 11°58'47 | 13° 5 | 14°46 | 26°10 | 10♂L13 | 0°26 | 15♂B10 | 12° 9 | 21♁4 | 6♄16 | 24♂R59 | 25°50 | 1°57 | 2°23 | W 2 | | | | | | | | |
| T 3 | 6 53 18 | 12°59'52 | 26°30 | 16°22 | 27°17 | 9°56 | 0°27 | 15° 5 | 12°11 | 21° 4 | 6°16 | 24♁58 | 25°47 | 2° 4 | 2°28 | T 3 | | | | | | | | |
| F 4 | 6 57 14 | 14° 0'57 | 10♄23 | 17°58 | 28°24 | 9°39 | 0°29 | 15° 0 | 12°13 | 21° 3 | 6°15 | 24°55 | 25°44 | 2°11 | 2°33 | F 4 | | | | | | | | |
| S 5 | 7 1 11 | 15° 2'02 | 24°44 | 19°34 | 29°31 | 9°21 | 0°32 | 14°55 | 12°15 | 21° 3 | 6°15 | 24°50 | 25°41 | 2°18 | 2°39 | S 5 | | | | | | | | |
| S 6 | 7 5 7 | 16° 3'08 | 9♁31 | 21°11 | 0♄38 | 9° 3 | 0°34 | 14°50 | 12°18 | 21° 2 | 6°15 | 24°42 | 25°37 | 2°24 | 2°44 | S 6 | | | | | | | | |
| M 7 | 7 9 4 | 17° 4'13 | 24°38 | 22°48 | 1°46 | 8°44 | 0°37 | 14°45 | 12°20 | 21° 2 | 6°15 | 24°33 | 25°34 | 2°31 | 2°49 | M 7 | | | | | | | | |
| T 8 | 7 13 0 | 18° 5'19 | 9♄57 | 24°25 | 2°54 | 8°24 | 0°40 | 14°40 | 12°22 | 21° 1 | 6°14 | 24°22 | 25°31 | 2°38 | 2°55 | T 8 | | | | | | | | |
| W 9 | 7 16 57 | 19° 6'24 | 25°15 | 26° 3 | 4° 2 | 8° 4 | 0°43 | 14°35 | 12°25 | 21° 1 | 6°14 | 24°12 | 25°28 | 2°45 | 3° 0 | W 9 | | | | | | | | |
| T 10 | 7 20 53 | 20° 7'30 | 10♄22 | 27°40 | 5°10 | 7°43 | 0°46 | 14°30 | 12°27 | 21° 0 | 6°14 | 24° 4 | 25°25 | 2°51 | 3° 5 | T 10 | | | | | | | | |
| F 11 | 7 24 50 | 21° 8'36 | 25° 7 | 29°18 | 6°18 | 7°22 | 0°49 | 14°25 | 12°29 | 20°59 | 6°14 | 23°58 | 25°21 | 2°58 | 3°11 | F 11 | | | | | | | | |
| S 12 | 7 28 47 | 22° 9'42 | 9♁25 | 0♄56 | 7°27 | 7° 0 | 0°53 | 14°20 | 12°32 | 20°59 | 6°13 | 23°55 | 25°18 | 3° 5 | 3°16 | S 12 | | | | | | | | |
| S 13 | 7 32 43 | 23°10'49 | 23°14 | 2°34 | 8°36 | 6°38 | 0°57 | 14°15 | 12°34 | 20°58 | 6°13 | 23°D54 | 25°15 | 3°11 | 3°22 | S 13 | | | | | | | | |
| M14 | 7 36 40 | 24°11'56 | 6♄34 | 4°13 | 9°45 | 6°15 | 1° 1 | 14°10 | 12°37 | 20°57 | 6°13 | 23°55 | 25°12 | 3°18 | 3°27 | M14 | | | | | | | | |
| T 15 | 7 40 36 | 25°13'03 | 19°28 | 5°51 | 10°54 | 5°52 | 1° 5 | 14° 6 | 12°39 | 20°57 | 6°13 | 23°R55 | 25° 9 | 3°25 | 3°33 | T 15 | | | | | | | | |
| W16 | 7 44 33 | 26°14'10 | 2♁0 | 7°29 | 12° 3 | 5°29 | 1°10 | 14° 1 | 12°42 | 20°56 | 6°13 | 23°55 | 25° 6 | 3°32 | 3°38 | W16 | | | | | | | | |
| T 17 | 7 48 29 | 27°15'17 | 14°15 | 9° 8 | 13°12 | 5° 6 | 1°14 | 13°56 | 12°45 | 20°55 | 6°13 | 23°54 | 25° 2 | 3°38 | 3°44 | T 17 | | | | | | | | |
| F 18 | 7 52 26 | 28°16'25 | 26°18 | 10°46 | 14°22 | 4°42 | 1°19 | 13°51 | 12°47 | 20°54 | 6°13 | 23°50 | 24°59 | 3°45 | 3°49 | F 18 | | | | | | | | |
| S 19 | 7 56 22 | 29°17'32 | 8♄13 | 12°23 | 15°31 | 4°18 | 1°24 | 13°47 | 12°50 | 20°53 | 6°D13 | 23°43 | 24°56 | 3°52 | 3°55 | S 19 | | | | | | | | |
| S 20 | 8 0 19 | 0♄18'40 | 20° 5 | 14° 1 | 16°41 | 3°54 | 1°29 | 13°42 | 12°53 | 20°52 | 6°13 | 23°35 | 24°53 | 3°59 | 4° 0 | S 20 | | | | | | | | |
| M21 | 8 4 16 | 1°19'47 | 1♄56 | 15°37 | 17°51 | 3°30 | 1°34 | 13°37 | 12°55 | 20°51 | 6°13 | 23°24 | 24°50 | 4° 5 | 4° 6 | M21 | | | | | | | | |
| T 22 | 8 8 12 | 2°20'55 | 13°49 | 17°13 | 19° 1 | 3° 6 | 1°40 | 13°33 | 12°58 | 20°50 | 6°13 | 23°14 | 24°47 | 4°12 | 4°11 | T 22 | | | | | | | | |
| W23 | 8 12 9 | 3°22'02 | 25°45 | 18°48 | 20°11 | 2°42 | 1°46 | 13°28 | 13° 1 | 20°49 | 6°13 | 23° 3 | 24°43 | 4°19 | 4°17 | W23 | | | | | | | | |
| T 24 | 8 16 5 | 4°23'09 | 7♁46 | 20°21 | 21°21 | 2°18 | 1°51 | 13°24 | 13° 4 | 20°48 | 6°13 | 22°54 | 24°40 | 4°25 | 4°22 | T 24 | | | | | | | | |
| F 25 | 8 20 2 | 5°24'15 | 19°53 | 21°53 | 22°32 | 1°54 | 1°57 | 13°19 | 13° 7 | 20°47 | 6°13 | 22°47 | 24°37 | 4°32 | 4°28 | F 25 | | | | | | | | |
| S 26 | 8 23 58 | 6°25'21 | 2♃8 | 23°22 | 23°42 | 1°31 | 2° 4 | 13°15 | 13°10 | 20°46 | 6°13 | 22°43 | 24°34 | 4°39 | 4°33 | S 26 | | | | | | | | |
| S 27 | 8 27 55 | 7°26'26 | 14°31 | 24°49 | 24°53 | 1° 7 | 2°10 | 13°11 | 13°13 | 20°45 | 6°14 | 22°41 | 24°31 | 4°46 | 4°39 | S 27 | | | | | | | | |
| M28 | 8 31 51 | 8°27'30 | 27° 6 | 26°13 | 26° 3 | 0°44 | 2°17 | 13° 7 | 13°16 | 20°44 | 6°14 | 22°D40 | 24°27 | 4°52 | 4°44 | M28 | | | | | | | | |
| T 29 | 8 35 48 | 9°28'34 | 9♁53 | 27°34 | 27°14 | 0°21 | 2°23 | 13° 2 | 13°19 | 20°43 | 6°14 | 22°41 | 24°24 | 4°59 | 4°49 | T 29 | | | | | | | | |
| W30 | 8 39 45 | 10°29'37 | 22°57 | 28°50 | 28°25 | 29♄59 | 2°30 | 12°58 | 13°22 | 20°42 | 6°14 | 22°43 | 24°21 | 5° 6 | 4°55 | W30 | | | | | | | | |
| T 31 | 8 43 41 | 11°30'39 | 6♄20 | 0♃1 | 29♄36 | 29♄37 | 2♄37 | 12♄54 | 13♃25 | 20♁41 | 6♄14 | 22°R44 | 24♁18 | 5♄12 | 5♁0 | T 31 | | | | | | | | |

Delta T = 19m45s

FEBRUARY 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|--------|------|--------|-------|--------|------|--------|-------|------|------|------|---|---|---|---|---|---|---|-----|
| F 1 | 8 47 38 | 12°31'40 | 20♄4 | 1♃6 | 0♄47 | 29♂R15 | 2♄44 | 12°R50 | 13♃28 | 20♂R39 | 6♄15 | 22°R44 | 24♁15 | 5♄19 | 5♁6 | F 1 | | | | | | | | |
| S 2 | 8 51 34 | 13°32'40 | 4♁10 | 2° 5 | 1°58 | 28♄54 | 2°52 | 12♄46 | 13°31 | 20♁38 | 6°15 | 22♁42 | 24°12 | 5°26 | 5°11 | S 2 | | | | | | | | |
| S 3 | 8 55 31 | 14°33'39 | 18°38 | 2°56 | 3° 9 | 28°34 | 2°59 | 12°42 | 13°34 | 20°37 | 6°15 | 22°38 | 24° 8 | 5°33 | 5°17 | S 3 | | | | | | | | |
| M 4 | 8 59 27 | 15°34'37 | 3♄23 | 3°39 | 4°21 | 28°14 | 3° 7 | 12°39 | 13°37 | 20°36 | 6°16 | 22°33 | 24° 5 | 5°39 | 5°22 | M 4 | | | | | | | | |
| T 5 | 9 3 24 | 16°35'34 | 18°19 | 4°13 | 5°32 | 27°54 | 3°15 | 12°35 | 13°40 | 20°34 | 6°16 | 22°28 | 24° 2 | 5°46 | 5°28 | T 5 | | | | | | | | |
| W 6 | 9 7 20 | 17°36'30 | 3♁20 | 4°38 | 6°43 | 27°36 | 3°23 | 12°31 | 13°43 | 20°33 | 6°16 | 22°22 | 23°59 | 5°53 | 5°33 | W 6 | | | | | | | | |
| T 7 | 9 11 17 | 18°37'25 | 18°14 | 4°51 | 7°55 | 27°17 | 3°31 | 12°28 | 13°47 | 20°32 | 6°17 | 22°18 | 23°56 | 5°59 | 5°38 | T 7 | | | | | | | | |
| F 8 | 9 15 14 | 19°38'19 | 2♁55 | 4°R54 | 9° 7 | 27° 0 | 3°39 | 12°25 | 13°50 | 20°30 | 6°17 | 22°15 | 23°52 | 6° 6 | 5°44 | F 8 | | | | | | | | |
| S 9 | 9 19 10 | 20°39'12 | 17°14 | 4°46 | 10°18 | 26°43 | 3°48 | 12°21 | 13°53 | 20°29 | 6°18 | 22°D14 | 23°49 | 6°13 | 5°49 | S 9 | | | | | | | | |
| S 10 | 9 23 7 | 21°40'04 | 1♄8 | 4°26 | 11°30 | 26°27 | 3°56 | 12°18 | 13°56 | 20°27 | 6°18 | 22°14 | 23°46 | 6°20 | 5°54 | S 10 | | | | | | | | |
| M11 | 9 27 3 | 22°40'55 | 14°35 | 3°55 | 12°42 | 26°12 | 4° 5 | 12°15 | 13°59 | 20°26 | 6°19 | 22°15 | 23°43 | 6°26 | 6° 0 | M11 | | | | | | | | |
| T 12 | 9 31 0 | 23°41'46 | 27°37 | 3°15 | 13°54 | 25°57 | 4°14 | 12°12 | 14° 3 | 20°25 | 6°19 | 22°17 | 23°40 | 6°33 | 6° 5 | T 12 | | | | | | | | |
| W13 | 9 34 56 | 24°42'36 | 10♁15 | 2°24 | 15° 6 | 25°43 | 4°23 | 12° 9 | 14° 6 | 20°23 | 6°20 | 22°18 | 23°37 | 6°40 | 6°10 | W13 | | | | | | | | |
| T 14 | 9 38 53 | 25°43'25 | 22°36 | 1°26 | 16°18 | 25°30 | 4°32 | 12° 6 | 14° 9 | 20°22 | 6°20 | 22°R19 | 23°33 | 6°47 | 6°16 | T 14 | | | | | | | | |
| F 15 | 9 42 49 | 26°44'13 | 4♄42 | 0°22 | 17°30 | 25°18 | 4°41 | 12° 3 | 14°13 | 20°20 | 6°21 | 22°19 | 23°30 | 6°53 | 6°21 | F 15 | | | | | | | | |
| S 16 | 9 46 46 | 27°45'01 | 16°38 | 29♁13 | 18°42 | 25° 6 | 4°50 | 12° 0 | 14°16 | 20°19 | 6°22 | 22°17 | 23°27 | 7° 0 | 6°26 | S 16 | | | | | | | | |
| S 17 | 9 50 43 | 28°45'47 | 28°30 | 28° 1 | 19°54 | 24°55 | 5° 0 | 11°58 | 14°19 | 20°17 | 6°22 | 22°15 | 23°24 | 7° 7 | 6°31 | S 17 | | | | | | | | |
| M18 | 9 54 39 | 29°46'33 | 10♄21 | 26°50 | 21° 6 | 24°45 | 5° 9 | 11°55 | 14°23 | 20°16 | 6°23 | 22°11 | 23°21 | 7°13 | 6°36 | M18 | | | | | | | | |
| T 19 | 9 58 36 | 0♃47'17 | 22°16 | 25°39 | 22°18 | 24°36 | 5°19 | 11°53 | 14°26 | 20°14 | 6°23 | 22° 8 | 23°18 | 7°20 | 6°41 | T 19 | | | | | | | | |
| W20 | 10 2 32 | 1°48'01 | 4♁16 | 24°32 | 23°31 | 24°27 | 5°29 | 11°50 | 14°29 | 20°13 | 6°24 | 22° 4 | 23°14 | 7°27 | 6°47 | W20 | | | | | | | | |
| T 21 | 10 6 29 | 2°48'43 | 16°25 | 23°30 | 24°43 | 24°20 | 5°39 | 11°48 | 14°33 | 20°11 | 6°25 | 22° 1 | 23°11 | 7°34 | 6°52 | T 21 | | | | | | | | |
| F 22 | 10 10 25 | 3°49'24 | 28°43 | 22°34 | 25°56 | 24°13 | 5°49 | 11°46 | 14°36 | 20° 9 | 6°26 | 21°59 | 23° 8 | 7°40 | 6°57 | F 22 | | | | | | | | |
| S 23 | 10 14 22 | 4°50'03 | 11♃14 | 21°44 | 27° 8 | 24° 7 | 5°59 | 11°44 | 14°40 | 20° 8 | 6°26 | 21°57 | 23° 5 | 7°47 | 7° 2 | S 23 | | | | | | | | |
| S 24 | 10 18 18 | 5°50'41 | 23°55 | 21° 2 | 28°21 | 24° 2 | 6°10 | 11°42 | 14°43 | 20° 6 | 6°27 | 21°D57 | 23° 2 | 7°54 | 7° 7 | S 24 | | | | | | | | |
| M25 | 10 22 15 | 6°51'18 | 6♁50 | 20°27 | 29°33 | 23°57 | 6°20 | 11°40 | 14°47 | 20° 5 | 6°28 | 21°58 | 22°58 | 8° 0 | 7°12 | M25 | | | | | | | | |
| T 26 | 10 26 11 | 7°51'53 | 19°57 | 20° 0 | 0♄46 | 23°54 | 6°31 | 11°39 | 14°50 | 20° 3 | 6°29 | 21°59 | 22°55 | 8° 7 | 7°17 | T 26 | | | | | | | | |
| W27 | 10 30 8 | 8°52'26 | 3♄18 | 19°41 | 1°58 | 23°51 | 6°41 | 11°37 | 14°53 | 20° 1 | 6°29 | 22° 0 | 22°52 | 8°14 | 7°21 | W27 | | | | | | | | |
| T 28 | 10 34 5 | 9♄52'57 | 16♄52 | 19♁29 | 3♁11 | 23♄49 | 6♄52 | 11♄36 | 14♃57 | 20♁0 | 6♄30 | 22♁1 | 22♁49 | 8♄21 | 7♁26 | T 28 | | | | | | | | |

Delta T = 19m45s

ASTRODIENST EPHEMERIS for the year 2593
geocentric

MARCH 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|--------------------|------|
| F 1 | 10 38 1 | 10 ^h 53'27" | 0 ^h 40' | 19°D25 | 4 ^h 24' | 23°R48 | 7 ^h 3' | 11°R34 | 15 ^h 0' | 19°R58 | 6 ^h 31' | 22 ^h 2' | 22 ^h 46' | 8 ^h 27' | 7 ^h 31' | F 1 |
| S 2 | 10 41 58 | 11°53'55" | 14°41' | 19 ^h 28' | 5°36' | 23°D47' | 7°14' | 11 ^h 33' | 15° 4' | 19 ^h 56' | 6°32' | 22°R 2' | 22°43' | 8°34' | 7°36' | S 2 |
| S 3 | 10 45 54 | 12°54'22" | 28°54' | 19°37' | 6°49' | 23 ^h 47' | 7°25' | 11°32' | 15° 7' | 19°55' | 6°33' | 22° 1' | 22°39' | 8°41' | 7°41' | S 3 |
| M 4 | 10 49 51 | 13°54'46" | 13 ^h 21' | 19°52' | 8° 2' | 23°48' | 7°36' | 11°31' | 15°11' | 19°53' | 6°34' | 22° 1' | 22°36' | 8°47' | 7°45' | M 4 |
| T 5 | 10 53 47 | 14°55'09" | 27°46' | 20°14' | 9°15' | 23°50' | 7°47' | 11°30' | 15°14' | 19°51' | 6°35' | 22° 0' | 22°33' | 8°54' | 7°50' | T 5 |
| W 6 | 10 57 44 | 15°55'29" | 12 ^h 18' | 20°40' | 10°28' | 23°53' | 7°59' | 11°29' | 15°18' | 19°50' | 6°36' | 21°59' | 22°30' | 9° 1' | 7°55' | W 6 |
| T 7 | 11 1 40 | 16°55'48" | 26°45' | 21°11' | 11°40' | 23°56' | 8°10' | 11°29' | 15°21' | 19°48' | 6°37' | 21°58' | 22°27' | 9° 8' | 7°59' | T 7 |
| F 8 | 11 5 37 | 17°56'05" | 11 ^h 7' | 21°47' | 12°53' | 24° 0' | 8°22' | 11°28' | 15°24' | 19°46' | 6°37' | 21°58' | 22°24' | 9°14' | 8° 4' | F 8 |
| S 9 | 11 9 34 | 18°56'20" | 25° 7' | 22°28' | 14° 6' | 24° 4' | 8°34' | 11°28' | 15°28' | 19°45' | 6°38' | 21°D58' | 22°20' | 9°21' | 8° 8' | S 9 |
| S 10 | 11 13 30 | 19°56'33" | 8 ^h 53' | 23°12' | 15°19' | 24° 9' | 8°45' | 11°27' | 15°31' | 19°43' | 6°39' | 21°58' | 22°17' | 9°28' | 8°13' | S 10 |
| M 11 | 11 17 27 | 20°56'45" | 22°18' | 24° 0' | 16°32' | 24°15' | 8°57' | 11°27' | 15°35' | 19°41' | 6°40' | 21°58' | 22°14' | 9°34' | 8°17' | M 11 |
| T 12 | 11 21 23 | 21°56'55" | 5 ^h 11' | 24°51' | 17°45' | 24°22' | 9° 9' | 11°27' | 15°38' | 19°40' | 6°41' | 21°R58' | 22°11' | 9°41' | 8°21' | T 12 |
| W 13 | 11 25 20 | 22°57'04" | 18° 3' | 25°45' | 18°58' | 24°29' | 9°21' | 11°D27' | 15°42' | 19°38' | 6°43' | 21°58' | 22° 8' | 9°48' | 8°26' | W 13 |
| T 14 | 11 29 16 | 23°57'11" | 0 ^h 28' | 26°43' | 20°11' | 24°36' | 9°33' | 11°27' | 15°45' | 19°36' | 6°44' | 21°58' | 22° 4' | 9°55' | 8°30' | T 14 |
| F 15 | 11 33 13 | 24°57'17" | 12°38' | 27°43' | 21°24' | 24°45' | 9°45' | 11°27' | 15°48' | 19°35' | 6°45' | 21°58' | 22° 1' | 10° 1' | 8°34' | F 15 |
| S 16 | 11 37 9 | 25°57'21" | 24°37' | 28°46' | 22°38' | 24°54' | 9°58' | 11°27' | 15°52' | 19°33' | 6°46' | 21°D58' | 21°58' | 10° 8' | 8°38' | S 16 |
| S 17 | 11 41 6 | 26°57'23" | 6 ^h 30' | 29°51' | 23°51' | 25° 3' | 10°10' | 11°28' | 15°55' | 19°31' | 6°47' | 21°58' | 21°55' | 10°15' | 8°43' | S 17 |
| M 18 | 11 45 3 | 27°57'24" | 18°22' | 0 ^h 58' | 25° 4' | 25°13' | 10°22' | 11°28' | 15°59' | 19°30' | 6°48' | 21°58' | 21°52' | 10°21' | 8°47' | M 18 |
| T 19 | 11 48 59 | 28°57'24" | 0 ^h 18' | 2° 8' | 26°17' | 25°24' | 10°35' | 11°29' | 16° 2' | 19°28' | 6°49' | 21°59' | 21°49' | 10°28' | 8°51' | T 19 |
| W 20 | 11 52 56 | 29°57'22" | 12°21' | 3°20' | 27°30' | 25°35' | 10°47' | 11°30' | 16° 5' | 19°26' | 6°50' | 22° 0' | 21°45' | 10°35' | 8°55' | W 20 |
| T 21 | 11 56 52 | 0 ^h 57'18" | 24°35' | 4°33' | 28°43' | 25°47' | 11° 0' | 11°31' | 16° 9' | 19°25' | 6°51' | 22° 1' | 21°42' | 10°42' | 8°59' | T 21 |
| F 22 | 12 0 49 | 1°57'12" | 7 ^h 4' | 5°49' | 29°57' | 25°59' | 11°13' | 11°32' | 16°12' | 19°23' | 6°53' | 22° 1' | 21°39' | 10°48' | 9° 2' | F 22 |
| S 23 | 12 4 45 | 2°57'04" | 19°48' | 7° 6' | 1 ^h 10' | 26°12' | 11°25' | 11°33' | 16°16' | 19°21' | 6°54' | 22°R 2' | 21°36' | 10°55' | 9° 6' | S 23 |
| S 24 | 12 8 42 | 3°56'55" | 2 ^h 50' | 8°25' | 2°23' | 26°25' | 11°38' | 11°34' | 16°19' | 19°20' | 6°55' | 22° 2' | 21°33' | 11° 2' | 9°10' | S 24 |
| M 25 | 12 12 38 | 4°56'43" | 16° 8' | 9°45' | 3°36' | 26°39' | 11°51' | 11°35' | 16°22' | 19°18' | 6°56' | 22° 1' | 21°29' | 11° 8' | 9°14' | M 25 |
| T 26 | 12 16 35 | 5°56'30" | 29°42' | 11° 7' | 4°50' | 26°54' | 12° 4' | 11°37' | 16°25' | 19°17' | 6°57' | 21°59' | 21°26' | 11°15' | 9°17' | T 26 |
| W 27 | 12 20 31 | 6°56'15" | 13 ^h 28' | 12°31' | 6° 3' | 27° 8' | 12°17' | 11°38' | 16°29' | 19°15' | 6°59' | 21°57' | 21°23' | 11°22' | 9°21' | W 27 |
| T 28 | 12 24 28 | 7°55'57" | 27°26' | 13°56' | 7°16' | 27°24' | 12°30' | 11°40' | 16°32' | 19°14' | 7° 0' | 21°55' | 21°20' | 11°29' | 9°24' | T 28 |
| F 29 | 12 28 25 | 8°55'38" | 11 ^h 31' | 15°23' | 8°30' | 27°39' | 12°43' | 11°42' | 16°35' | 19°12' | 7° 1' | 21°53' | 21°17' | 11°35' | 9°28' | F 29 |
| S 30 | 12 32 21 | 9°55'16" | 25°41' | 16°51' | 9°43' | 27°56' | 12°56' | 11°44' | 16°39' | 19°10' | 7° 2' | 21°52' | 21°14' | 11°42' | 9°31' | S 30 |
| S 31 | 12 36 18 | 10 ^h 54'52" | 9 ^h 52' | 18 ^h 20' | 10 ^h 56' | 28 ^h 12' | 13 ^h 10' | 11 ^h 46' | 16 ^h 42' | 19 ^h 9' | 7 ^h 4' | 21°D51' | 21 ^h 10' | 11 ^h 49' | 9 ^h 35' | S 31 |

Delta T = 19m45s

APRIL 2593

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ | Day |
|------|----------|------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|-------------------|---------------------|--------------------|---------------------|--------------------|------|
| M 1 | 12 40 14 | 11 ^h 54'25" | 24 ^h 4' | 19 ^h 51' | 12 ^h 10' | 28 ^h 29' | 13 ^h 23' | 11 ^h 34' | 16 ^h 45' | 19 ^h R 7' | 7 ^h 8' | 21 ^h 52' | 21 ^h 7' | 11 ^h 55' | 9 ^h 38' | M 1 |
| T 2 | 12 44 11 | 12°53'57" | 8 ^h 13' | 21°23' | 13°23' | 28°47' | 13°36' | 11°50' | 16°48' | 19 ^h 6' | 7° 6' | 21°53' | 21° 4' | 12° 2' | 9°41' | T 2 |
| W 3 | 12 48 7 | 13°53'26" | 22°18' | 22°57' | 14°36' | 29° 5' | 13°50' | 11°52' | 16°51' | 19° 4' | 7° 7' | 21°54' | 21° 1' | 12° 9' | 9°44' | W 3 |
| T 4 | 12 52 4 | 14°52'52" | 6 ^h 16' | 24°32' | 15°50' | 29°23' | 14° 3' | 11°55' | 16°54' | 19° 3' | 7° 9' | 21°56' | 20°58' | 12°16' | 9°47' | T 4 |
| F 5 | 12 56 0 | 15°52'17" | 20° 6' | 26° 8' | 17° 3' | 29°42' | 14°17' | 11°57' | 16°58' | 19° 1' | 7°10' | 21°R56' | 20°55' | 12°22' | 9°51' | F 5 |
| S 6 | 12 59 57 | 16°51'39" | 3 ^h 44' | 27°46' | 18°16' | 0 ^h 1' | 14°30' | 12° 0' | 17° 1' | 19° 0' | 7°11' | 21°56' | 20°51' | 12°29' | 9°53' | S 6 |
| S 7 | 13 3 54 | 17°50'59" | 17°10' | 29°25' | 19°30' | 0°20' | 14°44' | 12° 3' | 17° 4' | 18°59' | 7°13' | 21°54' | 20°48' | 12°36' | 9°56' | S 7 |
| M 8 | 13 7 50 | 18°50'17" | 0 ^h 20' | 1 ^h 5' | 20°43' | 0°40' | 14°57' | 12° 5' | 17° 7' | 18°57' | 7°14' | 21°51' | 20°45' | 12°42' | 9°59' | M 8 |
| T 9 | 13 11 47 | 19°49'34" | 13°15' | 2°47' | 21°57' | 1° 0' | 15°11' | 12° 8' | 17°10' | 18°56' | 7°15' | 21°47' | 20°42' | 12°49' | 10° 2' | T 9 |
| W 10 | 13 15 43 | 20°48'48" | 25°53' | 4°30' | 23°10' | 1°20' | 15°25' | 12°11' | 17°13' | 18°54' | 7°17' | 21°42' | 20°39' | 12°56' | 10° 5' | W 10 |
| T 11 | 13 19 40 | 21°48'01" | 8 ^h 16' | 6°15' | 24°23' | 1°41' | 15°38' | 12°14' | 17°16' | 18°53' | 7°18' | 21°37' | 20°35' | 13° 3' | 10° 7' | T 11 |
| F 12 | 13 23 36 | 22°47'12" | 20°26' | 8° 0' | 25°37' | 2° 2' | 15°52' | 12°18' | 17°19' | 18°52' | 7°19' | 21°32' | 20°32' | 13° 9' | 10°10' | F 12 |
| S 13 | 13 27 33 | 23°46'21" | 2 ^h 36' | 9°48' | 26°50' | 2°24' | 16° 6' | 12°21' | 17°22' | 18°50' | 7°21' | 21°29' | 20°29' | 13°16' | 10°12' | S 13 |
| S 14 | 13 31 29 | 24°45'28" | 14°20' | 11°37' | 28° 4' | 2°45' | 16°20' | 12°24' | 17°25' | 18°49' | 7°22' | 21°27' | 20°26' | 13°23' | 10°15' | S 14 |
| M 15 | 13 35 26 | 25°44'33" | 26°12' | 13°27' | 29°17' | 3° 7' | 16°34' | 12°28' | 17°28' | 18°48' | 7°23' | 21°D26' | 20°23' | 13°29' | 10°17' | M 15 |
| T 16 | 13 39 23 | 26°43'37" | 8 ^h 7' | 15°19' | 0 ^h 31' | 3°30' | 16°48' | 12°31' | 17°31' | 18°47' | 7°25' | 21°27' | 20°20' | 13°36' | 10°20' | T 16 |
| W 17 | 13 43 19 | 27°42'39" | 20°10' | 17°12' | 1°44' | 3°52' | 17° 2' | 12°35' | 17°33' | 18°45' | 7°26' | 21°28' | 20°16' | 13°43' | 10°22' | W 17 |
| T 18 | 13 47 16 | 28°41'40" | 2 ^h 26' | 19° 6' | 2°58' | 4°15' | 17°16' | 12°39' | 17°36' | 18°44' | 7°27' | 21°30' | 20°13' | 13°50' | 10°24' | T 18 |
| F 19 | 13 51 12 | 29°40'38" | 14°59' | 21° 2' | 4°11' | 4°38' | 17°30' | 12°43' | 17°39' | 18°43' | 7°29' | 21°R31' | 20°10' | 13°56' | 10°26' | F 19 |
| S 20 | 13 55 9 | 0 ^h 39'35" | 27°53' | 23° 0' | 5°25' | 5° 2' | 17°44' | 12°47' | 17°42' | 18°42' | 7°30' | 21°31' | 20° 7' | 14° 3' | 10°28' | S 20 |
| S 21 | 13 59 5 | 1°38'29" | 11 ^h 9' | 24°59' | 6°38' | 5°26' | 17°58' | 12°51' | 17°44' | 18°41' | 7°32' | 21°30' | 20° 4' | 14°10' | 10°30' | S 21 |
| M 22 | 14 3 2 | 2°37'22" | 24°47' | 26°59' | 7°52' | 5°50' | 18°12' | 12°55' | 17°47' | 18°39' | 7°33' | 21°26' | 20° 0' | 14°16' | 10°32' | M 22 |
| T 23 | 14 6 58 | 3°36'13" | 8 ^h 46' | 29° 0' | 9° 5' | 6°14' | 18°26' | 12°59' | 17°50' | 18°38' | 7°34' | 21°21' | 19°57' | 14°23' | 10°34' | T 23 |
| W 24 | 14 10 55 | 4°35'03" | 23° 1' | 1 ^h 3' | 10°18' | 6°38' | 18°40' | 13° 4' | 17°52' | 18°37' | 7°36' | 21°14' | 19°54' | 14°30' | 10°36' | W 24 |
| T 25 | 14 14 51 | 5°33'50" | 7 ^h 27' | 3° 7' | 11°32' | 7° 3' | 18°54' | 13° 8' | 17°55' | 18°36' | 7°37' | 21° 7' | 19°51' | 14°37' | 10°37' | T 25 |
| F 26 | 14 18 48 | 6°32'35" | 21°58' | 5°12' | 12°45' | 7°28' | 19° 9' | 13°12' | 17°58' | 18°35' | 7°39' | 21° 0' | 19°48' | 14°43' | 10°39' | F 26 |
| S 27 | 14 22 45 | 7°31'18" | 6 ^h 27' | 7°18' | 13°59' | 7°54' | 19°23' | 13°17' | 18° 0' | 18°34' | 7°40' | 20°55' | 19°45' | 14°50' | 10°40' | S 27 |
| S 28 | 14 26 41 | 8°29'59" | 20°50' | 9°25' | 15°12' | 8°19' | 19°37' | 13°22' | 18° 3' | 18°33' | 7°41' | 20°52' | 19° | | | |

ASTRODIENST EPHEMERIS for the year 2593
geocentric

MAY 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|------|--------|-------|-------|--------|------|-----|
| W 1 | 14 38 31 | 11♌25'47 | 2♍54 | 15♌48 | 18♍53 | 9♌37 | 20♌20 | 13♌36 | 18♌10 | 18♌31 | 7♌45 | 20♍52 | 19♍32 | 15♌17 | 10♌46 | W 1 | |
| T 2 | 14 42 27 | 12°24'19 | 16°31 | 17°56 | 20° 6 | 10° 3 | 20°34 | 13°41 | 18°12 | 18♍30 | 7°47 | 20°R53 | 19°29 | 15°23 | 10°47 | T 2 | |
| F 3 | 14 46 24 | 13°22'49 | 29°56 | 20° 3 | 21°20 | 10°30 | 20°48 | 13°46 | 18°14 | 18°29 | 7°48 | 20°52 | 19°26 | 15°30 | 10°48 | F 3 | |
| S 4 | 14 50 20 | 14°21'16 | 13♌10 | 22°10 | 22°33 | 10°57 | 21° 3 | 13°51 | 18°17 | 18°28 | 7°50 | 20°50 | 19°22 | 15°37 | 10°49 | S 4 | |
| S 5 | 14 54 17 | 15°19'42 | 26°12 | 24°16 | 23°47 | 11°24 | 21°17 | 13°57 | 18°19 | 18°27 | 7°51 | 20°45 | 19°19 | 15°44 | 10°50 | S 5 | |
| M 6 | 14 58 14 | 16°18'05 | 9♍ 3 | 26°20 | 25° 0 | 11°51 | 21°31 | 14° 2 | 18°21 | 18°27 | 7°52 | 20°38 | 19°16 | 15°50 | 10°51 | M 6 | |
| T 7 | 15 2 10 | 17°16'27 | 21°42 | 28°23 | 26°14 | 12°18 | 21°45 | 14° 7 | 18°23 | 18°26 | 7°54 | 20°29 | 19°13 | 15°57 | 10°51 | T 7 | |
| W 8 | 15 6 7 | 18°14'48 | 4♌ 9 | 0♍24 | 27°27 | 12°46 | 22° 0 | 14°13 | 18°26 | 18°25 | 7°55 | 20°19 | 19°10 | 16° 4 | 10°52 | W 8 | |
| T 9 | 15 10 3 | 19°13'06 | 16°25 | 2°23 | 28°40 | 13°14 | 22°14 | 14°18 | 18°28 | 18°25 | 7°57 | 20° 8 | 19° 6 | 16°10 | 10°53 | T 9 | |
| F 10 | 15 14 0 | 20°11'23 | 28°31 | 4°19 | 29°54 | 13°41 | 22°28 | 14°24 | 18°30 | 18°24 | 7°58 | 19°58 | 19° 3 | 16°17 | 10°53 | F 10 | |
| S 11 | 15 17 56 | 21° 9'38 | 10♌29 | 6°13 | 1♌ 7 | 14°10 | 22°43 | 14°29 | 18°32 | 18°23 | 7°59 | 19°49 | 19° 0 | 16°24 | 10°54 | S 11 | |
| S 12 | 15 21 53 | 22° 7'52 | 22°21 | 8° 3 | 2°21 | 14°38 | 22°57 | 14°35 | 18°34 | 18°23 | 8° 1 | 19°43 | 18°57 | 16°31 | 10°54 | S 12 | |
| M13 | 15 25 49 | 23° 6'04 | 4♌12 | 9°51 | 3°34 | 15° 6 | 23°11 | 14°41 | 18°36 | 18°22 | 8° 2 | 19°38 | 18°54 | 16°37 | 10°54 | M13 | |
| T 14 | 15 29 46 | 24° 4'15 | 16° 6 | 11°35 | 4°48 | 15°35 | 23°26 | 14°47 | 18°37 | 18°22 | 8° 3 | 19°37 | 18°51 | 16°44 | 10°55 | T 14 | |
| W15 | 15 33 43 | 25° 2'24 | 28° 7 | 13°16 | 6° 1 | 16° 4 | 23°40 | 14°53 | 18°39 | 18°21 | 8° 5 | 19°D36 | 18°47 | 16°51 | 10°55 | W15 | |
| T 16 | 15 37 39 | 26° 0'32 | 10♌21 | 14°53 | 7°15 | 16°32 | 23°54 | 14°59 | 18°41 | 18°21 | 8° 6 | 19°37 | 18°44 | 16°57 | 10°55 | T 16 | |
| F 17 | 15 41 36 | 26°58'38 | 22°54 | 16°27 | 8°28 | 17° 1 | 24° 9 | 15° 5 | 18°43 | 18°21 | 8° 7 | 19°R37 | 18°41 | 17° 4 | 10°R55 | F 17 | |
| S 18 | 15 45 32 | 27°56'43 | 5♍49 | 17°56 | 9°42 | 17°31 | 24°23 | 15°11 | 18°45 | 18°20 | 8° 9 | 19°36 | 18°38 | 17°11 | 10°55 | S 18 | |
| S 19 | 15 49 29 | 28°54'47 | 19°10 | 19°23 | 10°55 | 18° 0 | 24°37 | 15°17 | 18°46 | 18°20 | 8°10 | 19°33 | 18°35 | 17°18 | 10°55 | S 19 | |
| M20 | 15 53 25 | 29°52'49 | 2♌59 | 20°45 | 12° 9 | 18°30 | 24°52 | 15°23 | 18°48 | 18°20 | 8°11 | 19°27 | 18°32 | 17°24 | 10°54 | M20 | |
| T 21 | 15 57 22 | 0♍50'50 | 17°13 | 22° 3 | 13°22 | 18°59 | 25° 6 | 15°29 | 18°49 | 18°19 | 8°13 | 19°19 | 18°28 | 17°31 | 10°54 | T 21 | |
| W22 | 16 1 18 | 1°48'50 | 1♍49 | 23°17 | 14°36 | 19°29 | 25°20 | 15°36 | 18°51 | 18°19 | 8°14 | 19° 9 | 18°25 | 17°38 | 10°54 | W22 | |
| T 23 | 16 5 15 | 2°46'48 | 16°40 | 24°27 | 15°49 | 19°59 | 25°34 | 15°42 | 18°52 | 18°19 | 8°15 | 18°58 | 18°22 | 17°44 | 10°53 | T 23 | |
| F 24 | 16 9 12 | 3°44'45 | 1♌36 | 25°33 | 17° 3 | 20°29 | 25°49 | 15°49 | 18°54 | 18°19 | 8°16 | 18°48 | 18°19 | 17°51 | 10°53 | F 24 | |
| S 25 | 16 13 8 | 4°42'39 | 16°29 | 26°35 | 18°16 | 20°59 | 26° 3 | 15°55 | 18°55 | 18°19 | 8°18 | 18°39 | 18°16 | 17°58 | 10°52 | S 25 | |
| S 26 | 16 17 5 | 5°40'33 | 1♌11 | 27°32 | 19°29 | 21°30 | 26°17 | 16° 2 | 18°57 | 18°18 | 8°19 | 18°33 | 18°12 | 18° 4 | 10°51 | S 26 | |
| M27 | 16 21 1 | 6°38'24 | 15°37 | 28°25 | 20°43 | 22° 0 | 26°31 | 16° 8 | 18°58 | 18°18 | 8°20 | 18°30 | 18° 9 | 18°11 | 10°51 | M27 | |
| T 28 | 16 24 58 | 7°36'14 | 29°42 | 29°14 | 21°56 | 22°31 | 26°46 | 16°15 | 18°59 | 18°18 | 8°22 | 18°29 | 18° 6 | 18°18 | 10°50 | T 28 | |
| W29 | 16 28 54 | 8°34'02 | 13♍28 | 29°59 | 23°10 | 23° 2 | 27° 0 | 16°22 | 19° 1 | 18°D18 | 8°23 | 18°28 | 18° 3 | 18°25 | 10°49 | W29 | |
| T 30 | 16 32 51 | 9°31'48 | 26°55 | 0♌38 | 24°23 | 23°33 | 27°14 | 16°28 | 19° 2 | 18°18 | 8°24 | 18°28 | 18° 0 | 18°31 | 10°48 | T 30 | |
| F 31 | 16 36 47 | 10♍29'33 | 10♌ 6 | 1♌14 | 25♌37 | 24♌ 4 | 27♌28 | 16♌35 | 19♌ 3 | 18♍18 | 8♌25 | 18♍27 | 17♍57 | 18♌38 | 10♌47 | F 31 | |

Delta T = 19m46s

JUNE 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|------|--------|-------|-------|--------|------|-----|
| S 1 | 16 40 44 | 11♍27'16 | 23♌ 2 | 1♌44 | 26♌50 | 24♌35 | 27♌42 | 16♌42 | 19♌ 4 | 18♍18 | 8♌26 | 18°R23 | 17♍53 | 18♌45 | 10°R46 | S 1 | |
| S 2 | 16 44 41 | 12°24'57 | 5♍45 | 2°10 | 28° 4 | 25° 6 | 27°56 | 16°49 | 19° 5 | 18°19 | 8°28 | 18♍17 | 17°50 | 18°51 | 10°45 | S 2 | |
| M 3 | 16 48 37 | 13°22'37 | 18°18 | 2°31 | 29°17 | 25°37 | 28°10 | 16°56 | 19° 6 | 18°19 | 8°29 | 18° 8 | 17°47 | 18°58 | 10°43 | M 3 | |
| T 4 | 16 52 34 | 14°20'16 | 0♌41 | 2°47 | 0♍31 | 26° 9 | 28°24 | 17° 3 | 19° 7 | 18°19 | 8°30 | 17°56 | 17°44 | 19° 5 | 10°42 | T 4 | |
| W 5 | 16 56 30 | 15°17'54 | 12°56 | 2°59 | 1°44 | 26°40 | 28°38 | 17°10 | 19° 8 | 18°19 | 8°31 | 17°43 | 17°41 | 19°11 | 10°41 | W 5 | |
| T 6 | 17 0 27 | 16°15'30 | 25° 2 | 3° 6 | 2°58 | 27°12 | 28°52 | 17°17 | 19° 9 | 18°19 | 8°32 | 17°29 | 17°38 | 19°18 | 10°39 | T 6 | |
| F 7 | 17 4 23 | 17°13'06 | 7♌ 1 | 3°R 8 | 4°11 | 27°44 | 29° 6 | 17°24 | 19° 9 | 18°20 | 8°33 | 17°16 | 17°34 | 19°25 | 10°38 | F 7 | |
| S 8 | 17 8 20 | 18°10'40 | 18°55 | 3° 6 | 5°24 | 28°16 | 29°20 | 17°31 | 19°10 | 18°20 | 8°34 | 17° 5 | 17°31 | 19°32 | 10°36 | S 8 | |
| S 9 | 17 12 17 | 19° 8'13 | 0♌46 | 2°59 | 6°38 | 28°48 | 29°34 | 17°38 | 19°11 | 18°20 | 8°36 | 16°56 | 17°28 | 19°38 | 10°35 | S 9 | |
| M10 | 17 16 13 | 20° 5'46 | 12°36 | 2°48 | 7°51 | 29°20 | 29°48 | 17°45 | 19°12 | 18°21 | 8°37 | 16°49 | 17°25 | 19°45 | 10°33 | M10 | |
| T 11 | 17 20 10 | 21° 3'17 | 24°28 | 2°33 | 9° 5 | 29°52 | 0♍ 2 | 17°53 | 19°12 | 18°21 | 8°38 | 16°46 | 17°22 | 19°52 | 10°31 | T 11 | |
| W12 | 17 24 6 | 22° 0'48 | 6♌28 | 2°14 | 10°18 | 0♍25 | 0°15 | 18° 0 | 19°13 | 18°21 | 8°39 | 16°44 | 17°18 | 19°58 | 10°29 | W12 | |
| T 13 | 17 28 3 | 22°58'18 | 18°41 | 1°51 | 11°32 | 0°57 | 0°29 | 18° 7 | 19°13 | 18°22 | 8°40 | 16°44 | 17°15 | 20° 5 | 10°27 | T 13 | |
| F 14 | 17 31 59 | 23°55'47 | 1°11 | 1°26 | 12°45 | 1°30 | 0°43 | 18°15 | 19°14 | 18°22 | 8°41 | 16°44 | 17°12 | 20°12 | 10°25 | F 14 | |
| S 15 | 17 35 56 | 24°53'15 | 14° 3 | 0°58 | 13°59 | 2° 2 | 0°56 | 18°22 | 19°14 | 18°23 | 8°42 | 16°43 | 17° 9 | 20°18 | 10°23 | S 15 | |
| S 16 | 17 39 52 | 25°50'43 | 27°23 | 0°28 | 15°12 | 2°35 | 1°10 | 18°29 | 19°14 | 18°24 | 8°43 | 16°40 | 17° 6 | 20°25 | 10°21 | S 16 | |
| M17 | 17 43 49 | 26°48'10 | 11♌11 | 29♍56 | 16°26 | 3° 8 | 1°24 | 18°37 | 19°15 | 18°24 | 8°44 | 16°35 | 17° 3 | 20°32 | 10°19 | M17 | |
| T 18 | 17 47 46 | 27°45'37 | 25°29 | 29°23 | 17°40 | 3°41 | 1°37 | 18°44 | 19°15 | 18°25 | 8°45 | 16°27 | 16°59 | 20°39 | 10°17 | T 18 | |
| W19 | 17 51 42 | 28°43'03 | 10♍12 | 28°49 | 18°53 | 4°14 | 1°51 | 18°52 | 19°15 | 18°25 | 8°46 | 16°17 | 16°56 | 20°45 | 10°15 | W19 | |
| T 20 | 17 55 39 | 29°40'29 | 25°15 | 28°16 | 20° 7 | 4°47 | 2° 4 | 18°59 | 19°15 | 18°26 | 8°47 | 16° 6 | 16°53 | 20°52 | 10°12 | T 20 | |
| F 21 | 17 59 35 | 0♌37'53 | 10♌27 | 27°43 | 21°20 | 5°20 | 2°18 | 19° 7 | 19°16 | 18°27 | 8°48 | 15°56 | 16°50 | 20°59 | 10°10 | F 21 | |
| S 22 | 18 3 32 | 1°35'17 | 25°38 | 27°11 | 22°34 | 5°53 | 2°31 | 19°14 | 19°16 | 18°28 | 8°49 | 15°48 | 16°47 | 21° 5 | 10° 7 | S 22 | |
| S 23 | 18 7 28 | 2°32'40 | 10♌38 | 26°41 | 23°47 | 6°27 | 2°44 | 19°22 | 19°R16 | 18°28 | 8°50 | 15°42 | 16°44 | 21°12 | 10° 5 | S 23 | |
| M24 | 18 11 25 | 3°30'02 | 25°19 | 26°13 | 25° 1 | 7° 0 | 2°57 | 19°30 | 19°16 | 18°29 | 8°51 | 15°38 | 16°40 | 21°19 | 10° 2 | M24 | |
| T 25 | 18 15 21 | 4°27'23 | 9♍36 | 25°48 | 26°14 | 7°34 | 3°11 | 19°37 | 19°16 | 18°30 | 8°51 | 15°D37 | 16°37 | 21°25 | 10° 0 | T 25 | |
| W26 | 18 19 18 | 5°24'44 | 23°28 | 25°26 | 27°28 | 8° 7 | 3°24 | 19°45 | 19°15 | 18°31 | 8°52 | 15°37 | 16°34 | 21°32 | 9°57 | W26 | |
| T 27 | 18 23 15 | 6°22'03 | 6♌56 | 25° 7 | 28°42 | 8°41 | 3°37 | 19°52 | 19°15 | 18°32 | 8°53 | 15°R37 | 16°31 | 21°39 | 9°54 | T 27 | |
| F 28 | 18 27 11 | 7°19'21 | 20° 3 | 24°52 | 29°55 | 9°15 | 3°50 | 20° 0 | 19°15 | 18°33 | 8°54 | 15°36 | 16°28 | 21°46 | 9°52 | F 28 | |
| S 29 | 18 31 8 | 8°16'39 | 2♍51 | 24°42 | 1♌ 9 | 9°49 | 4° 3 | 20° 8 | 19°15 | 18°34 | 8°55 | 15°34 | 16°24 | 21°52 | 9°49 | S 29 | |
| S 30 | 18 35 4 | 9♌13'56 | 15♍23 | 24♍35 | 2♌22 | 10♍23 | 4♍16 | 20♌16 | 19♌14 | 18♍35 | 8♌56 | 15♍29 | 16♍21 | 21♌59 | 9♌46 | S 30 | |

Delta T = 19m46s

ASTRODIENST EPHEMERIS for the year 2593
geocentric

JULY 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|--------|--------|-------|-------|-------|-------|--------|-------|------|--------|-------|-------|-------|------|-----|
| M 1 | 18 39 1 | 10♄11'12 | 27♄44 | 24°D33 | 3♄36 | 10♄57 | 4♄29 | 20♄23 | 19°R14 | 18♄36 | 8♄56 | 15°R21 | 16♄18 | 22♄6 | 9°R43 | M 1 | |
| T 2 | 18 42 57 | 11° 8'28 | 9♄55 | 24♄36 | 4°50 | 11°31 | 4°42 | 20°31 | 19♄14 | 18°37 | 8°57 | 15♄12 | 16°15 | 22°12 | 9♄40 | T 2 | |
| W 3 | 18 46 54 | 12° 5'43 | 21°59 | 24°43 | 6° 3 | 12° 5 | 4°54 | 20°39 | 19°13 | 18°38 | 8°58 | 15° 0 | 16°12 | 22°19 | 9°37 | W 3 | |
| T 4 | 18 50 50 | 13° 2'58 | 3♄57 | 24°55 | 7°17 | 12°40 | 5° 7 | 20°46 | 19°13 | 18°39 | 8°58 | 14°49 | 16° 9 | 22°26 | 9°34 | T 4 | |
| F 5 | 18 54 47 | 14° 0'12 | 15°51 | 25°12 | 8°30 | 13°14 | 5°20 | 20°54 | 19°12 | 18°40 | 8°59 | 14°38 | 16° 5 | 22°32 | 9°31 | F 5 | |
| S 6 | 18 58 44 | 14°57'26 | 27°42 | 25°33 | 9°44 | 13°48 | 5°32 | 21° 2 | 19°12 | 18°41 | 9° 0 | 14°28 | 16° 2 | 22°39 | 9°28 | S 6 | |
| S 7 | 19 2 40 | 15°54'40 | 9♄32 | 25°59 | 10°58 | 14°23 | 5°45 | 21°10 | 19°11 | 18°43 | 9° 1 | 14°21 | 15°59 | 22°46 | 9°25 | S 7 | |
| M 8 | 19 6 37 | 16°51'54 | 21°23 | 26°30 | 12°11 | 14°57 | 5°57 | 21°18 | 19°10 | 18°44 | 9° 1 | 14°16 | 15°56 | 22°53 | 9°22 | M 8 | |
| T 9 | 19 10 33 | 17°49'07 | 3♄19 | 27° 6 | 13°25 | 15°32 | 6° 9 | 21°25 | 19°10 | 18°45 | 9° 2 | 14°13 | 15°53 | 22°59 | 9°19 | T 9 | |
| W10 | 19 14 30 | 18°46'21 | 15°21 | 27°46 | 14°39 | 16° 7 | 6°22 | 21°33 | 19° 9 | 18°46 | 9° 2 | 14°D13 | 15°50 | 23° 6 | 9°15 | W10 | |
| T 11 | 19 18 26 | 19°43'34 | 27°36 | 28°31 | 15°52 | 16°42 | 6°34 | 21°41 | 19° 8 | 18°48 | 9° 3 | 14°13 | 15°46 | 23°13 | 9°12 | T 11 | |
| F 12 | 19 22 23 | 20°40'48 | 10°Y 6 | 29°21 | 17° 6 | 17°17 | 6°46 | 21°49 | 19° 7 | 18°49 | 9° 4 | 14°14 | 15°43 | 23°19 | 9° 9 | F 12 | |
| S 13 | 19 26 19 | 21°38'02 | 22°56 | 0♄15 | 18°20 | 17°52 | 6°58 | 21°57 | 19° 6 | 18°50 | 9° 4 | 14°R15 | 15°40 | 23°26 | 9° 6 | S 13 | |
| S 14 | 19 30 16 | 22°35'16 | 6♄11 | 1°13 | 19°34 | 18°27 | 7°10 | 22° 4 | 19° 5 | 18°52 | 9° 5 | 14°14 | 15°37 | 23°33 | 9° 2 | S 14 | |
| M15 | 19 34 13 | 23°32'30 | 19°53 | 2°16 | 20°47 | 19° 2 | 7°22 | 22°12 | 19° 4 | 18°53 | 9° 5 | 14°11 | 15°34 | 23°39 | 8°59 | M15 | |
| T 16 | 19 38 9 | 24°29'45 | 4♄4 | 3°23 | 22° 1 | 19°37 | 7°34 | 22°20 | 19° 3 | 18°55 | 9° 6 | 14° 6 | 15°30 | 23°46 | 8°56 | T 16 | |
| W17 | 19 42 6 | 25°27'00 | 18°42 | 4°34 | 23°15 | 20°12 | 7°46 | 22°28 | 19° 2 | 18°56 | 9° 6 | 14° 0 | 15°27 | 23°53 | 8°52 | W17 | |
| T 18 | 19 46 2 | 26°24'15 | 3♄41 | 5°49 | 24°29 | 20°48 | 7°57 | 22°36 | 19° 1 | 18°58 | 9° 7 | 13°53 | 15°24 | 23°59 | 8°49 | T 18 | |
| F 19 | 19 49 59 | 27°21'31 | 18°54 | 7° 9 | 25°42 | 21°23 | 8° 9 | 22°43 | 19° 0 | 18°59 | 9° 7 | 13°46 | 15°21 | 24° 6 | 8°45 | F 19 | |
| S 20 | 19 53 55 | 28°18'47 | 4♄9 | 8°33 | 26°56 | 21°58 | 8°20 | 22°51 | 18°59 | 19° 1 | 9° 7 | 13°41 | 15°18 | 24°13 | 8°42 | S 20 | |
| S 21 | 19 57 52 | 29°16'03 | 19°18 | 10° 0 | 28°10 | 22°34 | 8°32 | 22°59 | 18°57 | 19° 2 | 9° 8 | 13°37 | 15°15 | 24°20 | 8°38 | S 21 | |
| M22 | 20 1 48 | 0♄13'19 | 4♄9 | 11°32 | 29°24 | 23°10 | 8°43 | 23° 7 | 18°56 | 19° 4 | 9° 8 | 13°35 | 15°11 | 24°26 | 8°35 | M22 | |
| T 23 | 20 5 45 | 1°10'35 | 18°37 | 13° 7 | 0♄38 | 23°45 | 8°54 | 23°14 | 18°55 | 19° 5 | 9° 8 | 13°D34 | 15° 8 | 24°33 | 8°31 | T 23 | |
| W24 | 20 9 42 | 2° 7'50 | 2♄39 | 14°46 | 1°51 | 24°21 | 9° 5 | 23°22 | 18°53 | 19° 7 | 9° 9 | 13°35 | 15° 5 | 24°40 | 8°28 | W24 | |
| T 25 | 20 13 38 | 3° 5'06 | 16°15 | 16°29 | 3° 5 | 24°57 | 9°16 | 23°30 | 18°52 | 19° 9 | 9° 9 | 13°37 | 15° 2 | 24°46 | 8°24 | T 25 | |
| F 26 | 20 17 35 | 4° 2'22 | 29°25 | 18°15 | 4°19 | 25°33 | 9°27 | 23°38 | 18°50 | 19°10 | 9° 9 | 13°R38 | 14°59 | 24°53 | 8°21 | F 26 | |
| S 27 | 20 21 31 | 4°59'38 | 12♄13 | 20° 4 | 5°33 | 26° 9 | 9°38 | 23°45 | 18°49 | 19°12 | 9°10 | 13°37 | 14°55 | 25° 0 | 8°17 | S 27 | |
| S 28 | 20 25 28 | 5°56'55 | 24°42 | 21°56 | 6°47 | 26°45 | 9°49 | 23°53 | 18°47 | 19°14 | 9°10 | 13°36 | 14°52 | 25° 6 | 8°14 | S 28 | |
| M29 | 20 29 24 | 6°54'11 | 6♄58 | 23°51 | 8° 1 | 27°21 | 10° 0 | 24° 1 | 18°46 | 19°15 | 9°10 | 13°32 | 14°49 | 25°13 | 8°10 | M29 | |
| T 30 | 20 33 21 | 7°51'28 | 19° 2 | 25°49 | 9°15 | 27°57 | 10°10 | 24° 8 | 18°44 | 19°17 | 9°10 | 13°28 | 14°46 | 25°20 | 8° 7 | T 30 | |
| W31 | 20 37 17 | 8°48'45 | 1♄0 | 27°49 | 10♄29 | 28♄33 | 10♄21 | 24°16 | 18°43 | 19♄19 | 9♄10 | 13♄22 | 14♄43 | 25°26 | 8° 3 | W31 | |

Delta T = 19m47s

AUGUST 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|------|-----|
| T 1 | 20 41 14 | 9♄46'02 | 12♄53 | 29♄51 | 11♄42 | 29♄10 | 10♄31 | 24♄24 | 18°R41 | 19♄21 | 9♄11 | 13°R16 | 14♄40 | 25♄33 | 8°R 0 | T 1 | |
| F 2 | 20 45 11 | 10°43'20 | 24°44 | 1♄54 | 12°56 | 29°46 | 10°41 | 24°31 | 18°39 | 19°22 | 9°11 | 13°10 | 14°36 | 25°40 | 7°56 | F 2 | |
| S 3 | 20 49 7 | 11°40'38 | 6♄35 | 3°59 | 14°10 | 0♄23 | 10°51 | 24°39 | 18°38 | 19°24 | 9°11 | 13° 5 | 14°33 | 25°47 | 7°53 | S 3 | |
| S 4 | 20 53 4 | 12°37'57 | 18°27 | 6° 4 | 15°24 | 0°59 | 11° 2 | 24°47 | 18°36 | 19°26 | 9°11 | 13° 2 | 14°30 | 25°53 | 7°49 | S 4 | |
| M 5 | 20 57 0 | 13°35'16 | 0♄24 | 8°11 | 16°38 | 1°36 | 11°11 | 24°54 | 18°34 | 19°28 | 9°11 | 13° 0 | 14°27 | 26° 0 | 7°46 | M 5 | |
| T 6 | 21 0 57 | 14°32'36 | 12°27 | 10°17 | 17°52 | 2°12 | 11°21 | 25° 2 | 18°32 | 19°30 | 9°11 | 12°D59 | 14°24 | 26° 7 | 7°42 | T 6 | |
| W 7 | 21 4 53 | 15°29'57 | 24°39 | 12°24 | 19° 6 | 2°49 | 11°31 | 25° 9 | 18°30 | 19°32 | 9°11 | 12°59 | 14°21 | 26°13 | 7°39 | W 7 | |
| T 8 | 21 8 50 | 16°27'19 | 7°Y 1 | 14°30 | 20°20 | 3°26 | 11°41 | 25°17 | 18°28 | 19°34 | 9°R11 | 13° 1 | 14°17 | 26°20 | 7°35 | T 8 | |
| F 9 | 21 12 46 | 17°24'42 | 19°38 | 16°36 | 21°34 | 4° 2 | 11°50 | 25°24 | 18°26 | 19°36 | 9°11 | 13° 2 | 14°14 | 26°27 | 7°32 | F 9 | |
| S 10 | 21 16 43 | 18°22'06 | 2♄32 | 18°42 | 22°48 | 4°39 | 11°59 | 25°31 | 18°24 | 19°38 | 9°11 | 13° 4 | 14°11 | 26°33 | 7°28 | S 10 | |
| S 11 | 21 20 40 | 19°19'31 | 15°46 | 20°46 | 24° 2 | 5°16 | 12° 9 | 25°39 | 18°23 | 19°40 | 9°11 | 13°R 4 | 14° 8 | 26°40 | 7°25 | S 11 | |
| M12 | 21 24 36 | 20°16'57 | 29°23 | 22°50 | 25°16 | 5°53 | 12°18 | 25°46 | 18°21 | 19°42 | 9°11 | 13° 4 | 14° 5 | 26°47 | 7°21 | M12 | |
| T 13 | 21 28 33 | 21°14'24 | 13♄24 | 24°52 | 26°30 | 6°30 | 12°27 | 25°54 | 18°18 | 19°44 | 9°11 | 13° 3 | 14° 1 | 26°53 | 7°18 | T 13 | |
| W14 | 21 32 29 | 22°11'53 | 27°48 | 26°53 | 27°44 | 7° 7 | 12°36 | 26° 1 | 18°16 | 19°46 | 9°11 | 13° 1 | 13°58 | 27° 0 | 7°15 | W14 | |
| T 15 | 21 36 26 | 23° 9'22 | 12♄32 | 28°53 | 28°58 | 7°45 | 12°44 | 26° 8 | 18°14 | 19°48 | 9°11 | 12°59 | 13°55 | 27° 7 | 7°11 | T 15 | |
| F 16 | 21 40 22 | 24° 6'53 | 27°30 | 0♄51 | 0♄12 | 8°22 | 12°53 | 26°15 | 18°12 | 19°50 | 9°10 | 12°56 | 13°52 | 27°13 | 7° 8 | F 16 | |
| S 17 | 21 44 19 | 25° 4'25 | 12♄35 | 2°48 | 1°26 | 8°59 | 13° 1 | 26°23 | 18°10 | 19°52 | 9°10 | 12°54 | 13°49 | 27°20 | 7° 5 | S 17 | |
| S 18 | 21 48 15 | 26° 1'59 | 27°36 | 4°43 | 2°40 | 9°37 | 13°10 | 26°30 | 18° 8 | 19°54 | 9°10 | 12°53 | 13°46 | 27°27 | 7° 1 | S 18 | |
| M19 | 21 52 12 | 26°59'33 | 12♄26 | 6°37 | 3°54 | 10°14 | 13°18 | 26°37 | 18° 6 | 19°56 | 9°10 | 12°D52 | 13°42 | 27°34 | 6°58 | M19 | |
| T 20 | 21 56 9 | 27°57'08 | 26°58 | 8°30 | 5° 8 | 10°52 | 13°26 | 26°44 | 18° 4 | 19°58 | 9°10 | 12°53 | 13°39 | 27°40 | 6°55 | T 20 | |
| W21 | 22 0 5 | 28°54'44 | 11♄6 | 10°21 | 6°23 | 11°29 | 13°34 | 26°51 | 18° 1 | 20° 0 | 9° 9 | 12°54 | 13°36 | 27°47 | 6°52 | W21 | |
| T 22 | 22 4 2 | 29°52'20 | 24°48 | 12°10 | 7°37 | 12° 7 | 13°42 | 26°58 | 17°59 | 20° 2 | 9° 9 | 12°55 | 13°33 | 27°54 | 6°49 | T 22 | |
| F 23 | 22 8 58 | 0♄49'58 | 8♄4 | 13°58 | 8°51 | 12°45 | 13°49 | 27° 5 | 17°57 | 20° 4 | 9° 9 | 12°56 | 13°30 | 28° 0 | 6°46 | F 23 | |
| S 24 | 22 11 55 | 1°47'37 | 20°56 | 15°45 | 10° 5 | 13°22 | 13°57 | 27°12 | 17°55 | 20° 6 | 9° 8 | 12°56 | 13°27 | 28° 7 | 6°43 | S 24 | |
| S 25 | 22 15 51 | 2°45'17 | 3♄28 | 17°30 | 11°19 | 14° 0 | 14° 4 | 27°19 | 17°52 | 20° 8 | 9° 8 | 12°R57 | 13°23 | 28°14 | 6°40 | S 25 | |
| M26 | 22 19 48 | 3°42'57 | 15°43 | 19°13 | 12°33 | 14°38 | 14°11 | 27°26 | 17°50 | 20°11 | 9° 8 | 12°56 | 13°20 | 28°20 | 6°37 | M26 | |
| T 27 | 22 23 44 | 4°40'39 | 27°46 | 20°55 | 13°47 | 15°16 | 14°18 | 27°32 | 17°48 | 20°13 | 9° 7 | 12°56 | 13°17 | 28°27 | 6°34 | T 27 | |
| W28 | 22 27 41 | 5°38'22 | 9♄41 | 22°36 | 15° 1 | 15°54 | 14°25 | 27°39 | 17°46 | 20°15 | 9° 7 | 12°55 | 13°14 | 28°34 | 6°31 | W28 | |
| T 29 | 22 31 38 | 6°36'06 | 21°32 | 24°15 | 16°15 | 16°32 | 14°32 | 27°46 | 17°43 | 20°17 | 9° 7 | 12°54 | 13°11 | 28°40 | 6°28 | T 29 | |
| F 30 | 22 35 34 | 7°33'51 | 3♄23 | 25°53 | 17°30 | 17°10 | 14°39 | 27°52 | 17°41 | 20°19 | 9° 6 | 12°53 | 13° 7 | 28°47 | 6°25 | F 30 | |
| S 31 | 22 39 31 | 8°31'37 | 15♄16 | 27♄30 | 18♄44 | 17♄49 | 14♄45 | 27°59 | 17°38 | 20♄21 | 9♄6 | 12♄53 | 13♄4 | 28°54 | 6° 22 | S 31 | |

Delta T = 19m47s

ASTRODIENST EPHEMERIS for the year 2593
geocentric

SEPTEMBER 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 22 43 27 | 9♎29'24 | 27♋15 | 29♎5 | 19♎58 | 18♏27 | 14♐52 | 28♏6 | 17♎R36 | 20♎24 | 9♎R 5 | 12°R52 | 13♎1 | 29♏0 | 6°R20 | S 1 | |
| M 2 | 22 47 24 | 10°27'13 | 9♎21 | 0♏38 | 21°12 | 19° 5 | 14°58 | 28°12 | 17♎34 | 20°26 | 9♎5 | 12°D52 | 12°58 | 29° 7 | 6♋17 | M 2 | |
| T 3 | 22 51 20 | 11°25'03 | 21°36 | 2°10 | 22°26 | 19°44 | 15° 4 | 28°18 | 17°31 | 20°28 | 9° 4 | 12♎52 | 12°55 | 29°14 | 6°14 | T 3 | |
| W 4 | 22 55 17 | 12°22'55 | 4♎2 | 3°41 | 23°40 | 20°22 | 15° 9 | 28°25 | 17°29 | 20°30 | 9° 4 | 12°R52 | 12°52 | 29°20 | 6°12 | W 4 | |
| T 5 | 22 59 13 | 13°20'48 | 16°41 | 5°11 | 24°54 | 21° 0 | 15°15 | 28°31 | 17°27 | 20°32 | 9° 3 | 12°52 | 12°48 | 29°27 | 6° 9 | T 5 | |
| F 6 | 23 3 10 | 14°18'43 | 29°33 | 6°39 | 26° 9 | 21°39 | 15°21 | 28°37 | 17°24 | 20°35 | 9° 3 | 12°52 | 12°45 | 29°34 | 6° 7 | F 6 | |
| S 7 | 23 7 6 | 15°16'39 | 12♋39 | 8° 5 | 27°23 | 22°18 | 15°26 | 28°44 | 17°22 | 20°37 | 9° 2 | 12°52 | 12°42 | 29°41 | 6° 4 | S 7 | |
| S 8 | 23 11 3 | 16°14'38 | 26° 1 | 9°30 | 28°37 | 22°56 | 15°31 | 28°50 | 17°19 | 20°39 | 9° 1 | 12°52 | 12°39 | 29°47 | 6° 2 | S 8 | |
| M 9 | 23 15 0 | 17°12'38 | 9♐40 | 10°54 | 29°51 | 23°35 | 15°36 | 28°56 | 17°17 | 20°41 | 9° 1 | 12°51 | 12°36 | 29°54 | 6° 0 | M 9 | |
| T 10 | 23 18 56 | 18°10'40 | 23°35 | 12°16 | 1♏5 | 24°14 | 15°41 | 29° 2 | 17°15 | 20°43 | 9° 0 | 12°D51 | 12°33 | 0♋1 | 5°58 | T 10 | |
| W11 | 23 22 53 | 19° 8'44 | 7♏46 | 13°37 | 2°19 | 24°53 | 15°45 | 29° 8 | 17°12 | 20°46 | 8°59 | 12°52 | 12°29 | 0° 7 | 5°55 | W11 | |
| T 12 | 23 26 49 | 20° 6'50 | 22°11 | 14°56 | 3°33 | 25°32 | 15°50 | 29°14 | 17°10 | 20°48 | 8°59 | 12°52 | 12°26 | 0°14 | 5°53 | T 12 | |
| F 13 | 23 30 46 | 21° 4'58 | 6♏47 | 16°14 | 4°48 | 26°11 | 15°54 | 29°20 | 17° 8 | 20°50 | 8°58 | 12°53 | 12°23 | 0°21 | 5°51 | F 13 | |
| S 14 | 23 34 42 | 22° 3'08 | 21°29 | 17°30 | 6° 2 | 26°50 | 15°58 | 29°25 | 17° 5 | 20°52 | 8°57 | 12°54 | 12°20 | 0°27 | 5°49 | S 14 | |
| S 15 | 23 38 39 | 23° 1'20 | 6♎10 | 18°44 | 7°16 | 27°29 | 16° 2 | 29°31 | 17° 3 | 20°55 | 8°57 | 12°R54 | 12°17 | 0°34 | 5°47 | S 15 | |
| M16 | 23 42 35 | 23°59'33 | 20°45 | 19°57 | 8°30 | 28° 8 | 16° 6 | 29°37 | 17° 0 | 20°57 | 8°56 | 12°54 | 12°13 | 0°41 | 5°45 | M16 | |
| T 17 | 23 46 32 | 24°57'48 | 5♏7 | 21° 7 | 9°44 | 28°47 | 16°10 | 29°42 | 16°58 | 20°59 | 8°55 | 12°53 | 12°10 | 0°47 | 5°44 | T 17 | |
| W18 | 23 50 29 | 25°56'05 | 19°10 | 22°16 | 10°59 | 29°27 | 16°13 | 29°48 | 16°56 | 21° 1 | 8°54 | 12°52 | 12° 7 | 0°54 | 5°42 | W18 | |
| T 19 | 23 54 25 | 26°54'23 | 2♎52 | 23°22 | 12°13 | 0♎6 | 16°16 | 29°53 | 16°53 | 21° 3 | 8°54 | 12°50 | 12° 4 | 1° 1 | 5°40 | T 19 | |
| F 20 | 23 58 22 | 27°52'43 | 16°11 | 24°27 | 13°27 | 0°45 | 16°19 | 29°58 | 16°51 | 21° 6 | 8°53 | 12°48 | 12° 1 | 1° 7 | 5°39 | F 20 | |
| S 21 | 0 2 18 | 28°51'05 | 29° 7 | 25°29 | 14°41 | 1°25 | 16°22 | 0♏4 | 16°49 | 21° 8 | 8°52 | 12°46 | 11°58 | 1°14 | 5°37 | S 21 | |
| S 22 | 0 6 15 | 29°49'28 | 11♎41 | 26°29 | 15°55 | 2° 5 | 16°24 | 0° 9 | 16°46 | 21°10 | 8°51 | 12°45 | 11°54 | 1°21 | 5°36 | S 22 | |
| M23 | 0 10 11 | 0♏47'53 | 23°58 | 27°26 | 17° 9 | 2°44 | 16°27 | 0°14 | 16°44 | 21°12 | 8°50 | 12°44 | 11°51 | 1°27 | 5°34 | M23 | |
| T 24 | 0 14 8 | 1°46'19 | 6♏2 | 28°20 | 18°24 | 3°24 | 16°29 | 0°19 | 16°42 | 21°14 | 8°49 | 12°D44 | 11°48 | 1°34 | 5°33 | T 24 | |
| W25 | 0 18 4 | 2°44'47 | 17°56 | 29°11 | 19°38 | 4° 4 | 16°31 | 0°24 | 16°39 | 21°17 | 8°49 | 12°45 | 11°45 | 1°41 | 5°32 | W25 | |
| T 26 | 0 22 1 | 3°43'16 | 29°47 | 29°59 | 20°52 | 4°43 | 16°33 | 0°29 | 16°37 | 21°19 | 8°48 | 12°46 | 11°42 | 1°47 | 5°30 | T 26 | |
| F 27 | 0 25 58 | 4°41'47 | 11♋38 | 0♎44 | 22° 6 | 5°23 | 16°35 | 0°34 | 16°35 | 21°21 | 8°47 | 12°48 | 11°38 | 1°54 | 5°29 | F 27 | |
| S 28 | 0 29 54 | 5°40'20 | 23°34 | 1°25 | 23°20 | 6° 3 | 16°36 | 0°39 | 16°33 | 21°23 | 8°46 | 12°49 | 11°35 | 2° 1 | 5°28 | S 28 | |
| S 29 | 0 33 51 | 6°38'55 | 5♎39 | 2° 2 | 24°34 | 6°43 | 16°37 | 0°43 | 16°31 | 21°25 | 8°45 | 12°50 | 11°32 | 2° 7 | 5°27 | S 29 | |
| M30 | 0 37 47 | 7°37'31 | 17♎55 | 2♎34 | 25°49 | 7♎23 | 16♐38 | 0♏48 | 16♎28 | 21♎28 | 8♏44 | 12°R50 | 11♎29 | 2♋14 | 5♋26 | M30 | |

Delta T = 19m47s

OCTOBER 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|------|--------|-------|-------|--------|-------|------|-------|------|-----|
| T 1 | 0 41 44 | 8♏36'09 | 0♎25 | 3♎2 | 27♏3 | 8♎3 | 16♐39 | 0♏52 | 16°R26 | 21♎30 | 8°R43 | 12°R49 | 11♎26 | 2♋21 | 5°R25 | T 1 | |
| W 2 | 0 45 40 | 9°34'49 | 13°10 | 3°25 | 28°17 | 8°43 | 16°40 | 0°57 | 16♎24 | 21°32 | 8♏42 | 12♎47 | 11°23 | 2°27 | 5♋25 | W 2 | |
| T 3 | 0 49 37 | 10°33'30 | 26°10 | 3°42 | 29°31 | 9°24 | 16°40 | 1° 1 | 16°22 | 21°34 | 8°41 | 12°43 | 11°19 | 2°34 | 5°24 | T 3 | |
| F 4 | 0 53 33 | 11°32'14 | 9♏25 | 3°54 | 0♎45 | 10° 4 | 16°41 | 1° 5 | 16°20 | 21°36 | 8°40 | 12°39 | 11°16 | 2°41 | 5°23 | F 4 | |
| S 5 | 0 57 30 | 12°31'00 | 22°54 | 3°R59 | 1°59 | 10°44 | 16°R41 | 1° 9 | 16°18 | 21°38 | 8°39 | 12°34 | 11°13 | 2°47 | 5°23 | S 5 | |
| S 6 | 1 1 26 | 13°29'48 | 6♐34 | 3°58 | 3°13 | 11°25 | 16°40 | 1°13 | 16°16 | 21°40 | 8°38 | 12°30 | 11°10 | 2°54 | 5°22 | S 6 | |
| M 7 | 1 5 23 | 14°28'39 | 20°25 | 3°49 | 4°27 | 12° 5 | 16°40 | 1°17 | 16°14 | 21°42 | 8°37 | 12°27 | 11° 7 | 3° 1 | 5°22 | M 7 | |
| T 8 | 1 9 20 | 15°27'31 | 4♏24 | 3°34 | 5°41 | 12°46 | 16°40 | 1°21 | 16°12 | 21°44 | 8°36 | 12°25 | 11° 4 | 3° 7 | 5°22 | T 8 | |
| W 9 | 1 13 16 | 16°26'26 | 18°30 | 3°11 | 6°56 | 13°26 | 16°39 | 1°25 | 16°10 | 21°46 | 8°35 | 12°D24 | 11° 0 | 3°14 | 5°21 | W 9 | |
| T 10 | 1 17 13 | 17°25'24 | 2♎41 | 2°40 | 8°10 | 14° 7 | 16°38 | 1°29 | 16° 8 | 21°49 | 8°34 | 12°25 | 10°57 | 3°21 | 5°21 | T 10 | |
| F 11 | 1 21 9 | 18°24'23 | 16°56 | 2° 2 | 9°24 | 14°48 | 16°37 | 1°32 | 16° 6 | 21°51 | 8°33 | 12°26 | 10°54 | 3°28 | 5°21 | F 11 | |
| S 12 | 1 25 6 | 19°23'25 | 1♎12 | 1°17 | 10°38 | 15°28 | 16°35 | 1°36 | 16° 4 | 21°53 | 8°32 | 12°28 | 10°51 | 3°34 | 5°D21 | S 12 | |
| S 13 | 1 29 2 | 20°22'29 | 15°27 | 0°24 | 11°52 | 16° 9 | 16°34 | 1°39 | 16° 2 | 21°55 | 8°31 | 12°R28 | 10°48 | 3°41 | 5°21 | S 13 | |
| M14 | 1 32 59 | 21°21'35 | 29°36 | 29♏25 | 13° 6 | 16°50 | 16°32 | 1°42 | 16° 0 | 21°57 | 8°30 | 12°27 | 10°44 | 3°48 | 5°21 | M14 | |
| T 15 | 1 36 55 | 22°20'43 | 13♏37 | 28°21 | 14°20 | 17°31 | 16°30 | 1°46 | 15°58 | 21°59 | 8°29 | 12°24 | 10°41 | 3°54 | 5°21 | T 15 | |
| W16 | 1 40 52 | 23°19'53 | 27°25 | 27°13 | 15°34 | 18°12 | 16°28 | 1°49 | 15°57 | 22° 1 | 8°28 | 12°18 | 10°38 | 4° 1 | 5°22 | W16 | |
| T 17 | 1 44 49 | 24°19'06 | 10♎56 | 26° 3 | 16°48 | 18°53 | 16°25 | 1°52 | 15°55 | 22° 3 | 8°26 | 12°12 | 10°35 | 4° 8 | 5°22 | T 17 | |
| F 18 | 1 48 45 | 25°18'20 | 24° 9 | 24°52 | 18° 2 | 19°34 | 16°23 | 1°55 | 15°53 | 22° 4 | 8°25 | 12° 4 | 10°32 | 4°14 | 5°22 | F 18 | |
| S 19 | 1 52 42 | 26°17'36 | 7♎2 | 23°43 | 19°16 | 20°16 | 16°20 | 1°57 | 15°52 | 22° 6 | 8°24 | 11°57 | 10°29 | 4°21 | 5°23 | S 19 | |
| S 20 | 1 56 38 | 27°16'54 | 19°36 | 22°37 | 20°31 | 20°57 | 16°17 | 2° 0 | 15°50 | 22° 8 | 8°23 | 11°50 | 10°25 | 4°28 | 5°24 | S 20 | |
| M21 | 2 0 35 | 28°16'14 | 1♏53 | 21°36 | 21°45 | 21°38 | 16°14 | 2° 3 | 15°48 | 22°10 | 8°22 | 11°45 | 10°22 | 4°34 | 5°24 | M21 | |
| T 22 | 2 4 31 | 29°15'36 | 13°57 | 20°42 | 22°59 | 22°20 | 16°11 | 2° 5 | 15°47 | 22°12 | 8°21 | 11°41 | 10°19 | 4°41 | 5°25 | T 22 | |
| W23 | 2 8 28 | 0♎14'59 | 25°51 | 19°57 | 24°13 | 23° 1 | 16° 7 | 2° 8 | 15°45 | 22°14 | 8°20 | 11°D40 | 10°16 | 4°48 | 5°26 | W23 | |
| T 24 | 2 12 24 | 1°14'24 | 7♋41 | 19°22 | 25°27 | 23°43 | 16° 3 | 2°10 | 15°44 | 22°16 | 8°19 | 11°40 | 10°13 | 4°54 | 5°27 | T 24 | |
| F 25 | 2 16 21 | 2°13'51 | 19°32 | 18°57 | 26°41 | 24°24 | 16° 0 | 2°12 | 15°42 | 22°18 | 8°18 | 11°41 | 10° 9 | 5° 1 | 5°28 | F 25 | |
| S 26 | 2 20 18 | 3°13'20 | 1♎29 | 18°43 | 27°55 | 25° 6 | 15°55 | 2°14 | 15°41 | 22°19 | 8°16 | 11°42 | 10° 6 | 5° 8 | 5°29 | S 26 | |
| S 27 | 2 24 14 | 4°12'50 | 13°37 | 18°D40 | 29° 9 | 25°48 | 15°51 | 2°16 | 15°40 | 22°21 | 8°15 | 11°R43 | 10° 3 | 5°14 | 5°30 | S 27 | |
| M28 | 2 28 11 | 5°12'22 | 26° 0 | 18°48 | 0♎23 | 26°29 | 15°47 | 2°18 | 15°38 | 22°23 | 8°14 | 11°41 | 10° 0 | 5°21 | 5°31 | M28 | |
| T 29 | 2 32 7 | 6°11'56 | 8♎41 | 19° 7 | 1°37 | 27°11 | 15°42 | 2°20 | 15°37 | 22°25 | 8°13 | 11°38 | 9°57 | 5°28 | 5°32 | T 29 | |
| W30 | 2 36 4 | 7°11'32 | 21°43 | 19°36 | 2°51 | 27°53 | 15°37 | 2°21 | 15°36 | 22°26 | 8°12 | 11°32 | 9°54 | 5°34 | 5°33 | W30 | |
| T 31 | 2 40 0 | 8♎11'09 | 5♏5 | 20♏14 | 4♎5 | 28♎35 | 15♐32 | 2♏23 | 15♎35 | 22♎28 | 8♏11 | 11♎25 | 9♎50 | 5♋41 | 5♋35 | T 31 | |

Delta T = 19m48s

ASTRODIENST EPHEMERIS for the year 2593
geocentric

NOVEMBER 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|------|------|------|------|-----|
| F 1 | 2 43 57 | 9♐10'49 | 18♋46 | 21♌ 0 | 5♌19 | 29♐17 | 15°R27 | 2♏24 | 15°R34 | 22♐30 | 8°R10 | 11°R15 | 9♐47 | 5♌48 | 5♌36 | F 1 | |
| S 2 | 2 47 53 | 10°10'31 | 2♐42 | 21°55 | 6°33 | 29°59 | 15♐22 | 2°26 | 15♐33 | 22°31 | 8♋ 9 | 11♐ 5 | 9°44 | 5°54 | 5°38 | S 2 | |
| S 3 | 2 51 50 | 11°10'15 | 16°49 | 22°56 | 7°47 | 0♌41 | 15°16 | 2°27 | 15°32 | 22°33 | 8° 7 | 10°56 | 9°41 | 6° 1 | 5°39 | S 3 | |
| M 4 | 2 55 46 | 12°10'01 | 1♉ 3 | 24° 3 | 9° 0 | 1°23 | 15°11 | 2°28 | 15°31 | 22°34 | 8° 6 | 10°48 | 9°38 | 6° 8 | 5°41 | M 4 | |
| T 5 | 2 59 43 | 13° 9'49 | 15°18 | 25°16 | 10°14 | 2° 6 | 15° 5 | 2°29 | 15°30 | 22°36 | 8° 5 | 10°42 | 9°35 | 6°14 | 5°43 | T 5 | |
| W 6 | 3 3 40 | 14° 9'39 | 29°31 | 26°33 | 11°28 | 2°48 | 14°59 | 2°30 | 15°29 | 22°38 | 8° 4 | 10°39 | 9°31 | 6°21 | 5°45 | W 6 | |
| T 7 | 3 7 36 | 15° 9'32 | 13♏40 | 27°54 | 12°42 | 3°30 | 14°53 | 2°31 | 15°28 | 22°39 | 8° 3 | 10°D39 | 9°28 | 6°28 | 5°47 | T 7 | |
| F 8 | 3 11 33 | 16° 9'26 | 27°44 | 29°18 | 13°56 | 4°13 | 14°47 | 2°31 | 15°27 | 22°41 | 8° 2 | 10°39 | 9°25 | 6°34 | 5°49 | F 8 | |
| S 9 | 3 15 29 | 17° 9'23 | 11♐41 | 0♐45 | 15°10 | 4°55 | 14°40 | 2°32 | 15°26 | 22°42 | 8° 1 | 10°R39 | 9°22 | 6°41 | 5°51 | S 9 | |
| S 10 | 3 19 26 | 18° 9'22 | 25°32 | 2°14 | 16°24 | 5°38 | 14°34 | 2°32 | 15°25 | 22°44 | 7°59 | 10°38 | 9°19 | 6°48 | 5°53 | S 10 | |
| M11 | 3 23 22 | 19° 9'23 | 9♌15 | 3°45 | 17°38 | 6°20 | 14°27 | 2°33 | 15°25 | 22°45 | 7°58 | 10°35 | 9°15 | 6°54 | 5°55 | M11 | |
| T 12 | 3 27 19 | 20° 9'26 | 22°50 | 5°18 | 18°52 | 7° 3 | 14°20 | 2°33 | 15°24 | 22°46 | 7°57 | 10°29 | 9°12 | 7° 1 | 5°57 | T 12 | |
| W13 | 3 31 15 | 21° 9'32 | 6♐14 | 6°52 | 20° 6 | 7°46 | 14°13 | 2°R33 | 15°24 | 22°48 | 7°56 | 10°20 | 9° 9 | 7° 8 | 5°59 | W13 | |
| T 14 | 3 35 12 | 22° 9'39 | 19°26 | 8°27 | 21°19 | 8°28 | 14° 6 | 2°33 | 15°23 | 22°49 | 7°55 | 10° 9 | 9° 6 | 7°14 | 6° 2 | T 14 | |
| F 15 | 3 39 9 | 23° 9'48 | 2♌25 | 10° 2 | 22°33 | 9°11 | 13°59 | 2°33 | 15°23 | 22°50 | 7°54 | 9°56 | 9° 3 | 7°21 | 6° 4 | F 15 | |
| S 16 | 3 43 5 | 24° 9'58 | 15° 8 | 11°38 | 23°47 | 9°54 | 13°52 | 2°32 | 15°22 | 22°52 | 7°53 | 9°43 | 9° 0 | 7°28 | 6° 7 | S 16 | |
| S 17 | 3 47 2 | 25°10'11 | 27°35 | 13°15 | 25° 1 | 10°37 | 13°45 | 2°32 | 15°22 | 22°53 | 7°52 | 9°31 | 8°56 | 7°34 | 6° 9 | S 17 | |
| M18 | 3 50 58 | 26°10'25 | 9♋49 | 14°51 | 26°15 | 11°20 | 13°37 | 2°32 | 15°21 | 22°54 | 7°51 | 9°21 | 8°53 | 7°41 | 6°12 | M18 | |
| T 19 | 3 54 55 | 27°10'40 | 21°50 | 16°28 | 27°28 | 12° 3 | 13°30 | 2°31 | 15°21 | 22°55 | 7°50 | 9°13 | 8°50 | 7°48 | 6°15 | T 19 | |
| W20 | 3 58 51 | 28°10'57 | 3♌42 | 18° 5 | 28°42 | 12°46 | 13°22 | 2°30 | 15°21 | 22°56 | 7°49 | 9° 8 | 8°47 | 7°54 | 6°17 | W20 | |
| T 21 | 4 2 48 | 29°11'16 | 15°31 | 19°42 | 29°56 | 13°30 | 13°14 | 2°30 | 15°21 | 22°58 | 7°48 | 9° 6 | 8°44 | 8° 1 | 6°20 | T 21 | |
| F 22 | 4 6 44 | 0♌11'36 | 27°19 | 21°19 | 1♋10 | 14°13 | 13° 7 | 2°29 | 15°21 | 22°59 | 7°47 | 9°D 5 | 8°41 | 8° 8 | 6°23 | F 22 | |
| S 23 | 4 10 41 | 1°11'57 | 9♐14 | 22°56 | 2°23 | 14°56 | 12°59 | 2°28 | 15°21 | 23° 0 | 7°45 | 9°R 5 | 8°37 | 8°14 | 6°26 | S 23 | |
| S 24 | 4 14 38 | 2°12'19 | 21°21 | 24°33 | 3°37 | 15°40 | 12°51 | 2°26 | 15°D21 | 23° 1 | 7°44 | 9° 5 | 8°34 | 8°21 | 6°29 | S 24 | |
| M25 | 4 18 34 | 3°12'43 | 3♌45 | 26° 9 | 4°51 | 16°23 | 12°43 | 2°25 | 15°21 | 23° 2 | 7°43 | 9° 3 | 8°31 | 8°28 | 6°32 | M25 | |
| T 26 | 4 22 31 | 4°13'08 | 16°31 | 27°46 | 6° 5 | 17° 7 | 12°35 | 2°24 | 15°21 | 23° 3 | 7°42 | 8°58 | 8°28 | 8°34 | 6°35 | T 26 | |
| W27 | 4 26 27 | 5°13'35 | 29°41 | 29°22 | 7°18 | 17°50 | 12°27 | 2°22 | 15°21 | 23° 4 | 7°41 | 8°51 | 8°25 | 8°41 | 6°39 | W27 | |
| T 28 | 4 30 24 | 6°14'03 | 13♋17 | 0♌58 | 8°32 | 18°34 | 12°19 | 2°21 | 15°21 | 23° 5 | 7°40 | 8°41 | 8°21 | 8°48 | 6°42 | T 28 | |
| F 29 | 4 34 20 | 7°14'33 | 27°18 | 2°34 | 9°45 | 19°17 | 12°11 | 2°19 | 15°21 | 23° 6 | 7°40 | 8°30 | 8°18 | 8°54 | 6°45 | F 29 | |
| S 30 | 4 38 17 | 8♌15'03 | 11♐38 | 4♌ 9 | 10♋59 | 20♌ 1 | 12♐ 3 | 2♏17 | 15♐21 | 23♐ 6 | 7♋39 | 8♐17 | 8♐15 | 9♌ 1 | 6♌49 | S 30 | |

Delta T = 19m48s

DECEMBER 2593

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|------|-------|------|------|-----|
| S 1 | 4 42 13 | 9♌15'36 | 26♐13 | 5♌45 | 12♋12 | 20♌45 | 11°R54 | 2°R15 | 15♐22 | 23♐ 7 | 7°R38 | 8°R 5 | 8♐12 | 9♌ 8 | 6♌52 | S 1 | |
| M 2 | 4 46 10 | 10°16'10 | 10♋55 | 7°20 | 13°26 | 21°29 | 11♐46 | 2♏13 | 15°22 | 23° 8 | 7♋37 | 7♐55 | 8° 9 | 9°14 | 6°55 | M 2 | |
| T 3 | 4 50 7 | 11°16'46 | 25°35 | 8°55 | 14°40 | 22°12 | 11°38 | 2°11 | 15°23 | 23° 9 | 7°36 | 7°48 | 8° 6 | 9°21 | 6°59 | T 3 | |
| W 4 | 4 54 3 | 12°17'23 | 10♏ 7 | 10°30 | 15°53 | 22°56 | 11°30 | 2° 9 | 15°23 | 23°10 | 7°35 | 7°43 | 8° 2 | 9°28 | 7° 3 | W 4 | |
| T 5 | 4 58 0 | 13°18'01 | 24°28 | 12° 4 | 17° 6 | 23°40 | 11°22 | 2° 7 | 15°24 | 23°10 | 7°34 | 7°42 | 7°59 | 9°34 | 7° 6 | T 5 | |
| F 6 | 5 1 56 | 14°18'42 | 8♐35 | 13°39 | 18°20 | 24°24 | 11°14 | 2° 4 | 15°24 | 23°11 | 7°33 | 7°41 | 7°56 | 9°41 | 7°10 | F 6 | |
| S 7 | 5 5 53 | 15°19'24 | 22°26 | 15°13 | 19°33 | 25° 9 | 11° 5 | 2° 2 | 15°25 | 23°12 | 7°32 | 7°41 | 7°53 | 9°48 | 7°14 | S 7 | |
| S 8 | 5 9 49 | 16°20'07 | 6♌ 4 | 16°48 | 20°47 | 25°53 | 10°57 | 1°59 | 15°26 | 23°12 | 7°31 | 7°40 | 7°50 | 9°54 | 7°17 | S 8 | |
| M 9 | 5 13 46 | 17°20'52 | 19°29 | 18°22 | 22° 0 | 26°37 | 10°49 | 1°57 | 15°26 | 23°13 | 7°30 | 7°37 | 7°47 | 10° 1 | 7°21 | M 9 | |
| T 10 | 5 17 43 | 18°21'39 | 2♐42 | 19°56 | 23°13 | 27°21 | 10°41 | 1°54 | 15°27 | 23°13 | 7°30 | 7°30 | 7°43 | 10° 8 | 7°25 | T 10 | |
| W11 | 5 21 39 | 19°22'27 | 15°43 | 21°30 | 24°27 | 28° 6 | 10°33 | 1°51 | 15°28 | 23°14 | 7°29 | 7°21 | 7°40 | 10°14 | 7°29 | W11 | |
| T 12 | 5 25 36 | 20°23'16 | 28°34 | 23° 4 | 25°40 | 28°50 | 10°25 | 1°48 | 15°29 | 23°14 | 7°28 | 7° 9 | 7°37 | 10°21 | 7°33 | T 12 | |
| F 13 | 5 29 32 | 21°24'07 | 11♌13 | 24°38 | 26°53 | 29°34 | 10°17 | 1°45 | 15°30 | 23°15 | 7°27 | 6°56 | 7°34 | 10°28 | 7°37 | F 13 | |
| S 14 | 5 33 29 | 22°24'59 | 23°40 | 26°12 | 28° 6 | 0♋19 | 10° 9 | 1°42 | 15°31 | 23°15 | 7°27 | 6°42 | 7°31 | 10°34 | 7°41 | S 14 | |
| S 15 | 5 37 25 | 23°25'52 | 5♋57 | 27°46 | 29°20 | 1° 3 | 10° 2 | 1°38 | 15°32 | 23°15 | 7°26 | 6°29 | 7°27 | 10°41 | 7°45 | S 15 | |
| M16 | 5 41 22 | 24°26'46 | 18° 3 | 29°20 | 0♌33 | 1°48 | 9°54 | 1°35 | 15°33 | 23°16 | 7°25 | 6°18 | 7°24 | 10°48 | 7°50 | M16 | |
| T 17 | 5 45 18 | 25°27'40 | 29°59 | 0♋54 | 1°46 | 2°33 | 9°46 | 1°32 | 15°34 | 23°16 | 7°24 | 6° 9 | 7°21 | 10°54 | 7°54 | T 17 | |
| W18 | 5 49 15 | 26°28'36 | 11♌49 | 2°28 | 2°59 | 3°17 | 9°39 | 1°28 | 15°35 | 23°16 | 7°24 | 6° 3 | 7°18 | 11° 1 | 7°58 | W18 | |
| T 19 | 5 53 12 | 27°29'32 | 23°35 | 4° 2 | 4°12 | 4° 2 | 9°31 | 1°24 | 15°36 | 23°16 | 7°23 | 6° 1 | 7°15 | 11° 8 | 8° 2 | T 19 | |
| F 20 | 5 57 8 | 28°30'29 | 5♐22 | 5°36 | 5°25 | 4°47 | 9°24 | 1°21 | 15°38 | 23°17 | 7°22 | 6°D 0 | 7°12 | 11°14 | 8° 7 | F 20 | |
| S 21 | 6 1 5 | 29°31'27 | 17°15 | 7°11 | 6°38 | 5°32 | 9°17 | 1°17 | 15°39 | 23°17 | 7°22 | 6° 0 | 7° 8 | 11°21 | 8°11 | S 21 | |
| S 22 | 6 5 1 | 0♋32'25 | 29°19 | 8°45 | 7°51 | 6°17 | 9°10 | 1°13 | 15°40 | 23°17 | 7°21 | 6°R 0 | 7° 5 | 11°27 | 8°16 | S 22 | |
| M23 | 6 8 58 | 1°33'23 | 11♌39 | 10°19 | 9° 4 | 7° 2 | 9° 3 | 1° 9 | 15°42 | 23°17 | 7°20 | 6° 0 | 7° 2 | 11°34 | 8°20 | M23 | |
| T 24 | 6 12 54 | 2°34'23 | 24°21 | 11°53 | 10°16 | 7°47 | 8°56 | 1° 5 | 15°43 | 23°17 | 7°20 | 5°58 | 6°59 | 11°41 | 8°25 | T 24 | |
| W25 | 6 16 51 | 3°35'22 | 7♋29 | 13°28 | 11°29 | 8°32 | 8°49 | 1° 1 | 15°45 | 23°R17 | 7°19 | 5°53 | 6°56 | 11°47 | 8°29 | W25 | |
| T 26 | 6 20 47 | 4°36'22 | 21° 6 | 15° 2 | 12°42 | 9°17 | 8°42 | 0°57 | 15°46 | 23°17 | 7°19 | 5°46 | 6°53 | 11°54 | 8°34 | T 26 | |
| F 27 | 6 24 44 | 5°37'23 | 5♐12 | 16°36 | 13°54 | 10° 2 | 8°36 | 0°53 | 15°48 | 23°17 | 7°18 | 5°37 | 6°49 | 12° 1 | 8°38 | F 27 | |
| S 28 | 6 28 41 | 6°38'24 | 19°44 | 18°10 | 15° 7 | 10°47 | 8°30 | 0°49 | 15°50 | 23°17 | 7°18 | 5°27 | 6°46 | 12° 7 | 8°43 | S 28 | |
| S 29 | 6 32 37 | 7°39'26 | 4♋36 | 19°45 | 16°20 | 11°32 | 8°23 | 0°44 | 15°51 | 23°17 | 7°17 | 5°18 | 6°43 | 12°14 | 8°48 | S 29 | |
| M30 | 6 36 34 | 8°40'28 | 19°39 | 21°19 | 17°32 | 12°18 | 8°17 | 0°40 | 15°53 | 23°17 | 7°17 | 5°10 | 6°40 | 12°21 | 8°52 | M30 | |
| T 31 | 6 40 30 | 9♋41'31 | 4♏44 | 22♋52 | 18♌44 | 13♋ 3 | 8♐11 | 0♏36 | 15♐55 | 23♐16 | 7♋16 | 5♐ 4 | 6♐37 | 12♌27 | 8♌57 | T 31 | |

Delta T = 19m48s

ASTRODIENST EPHEMERIS for the year 2594
geocentric

JANUARY 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|------|-------|-------|------|-----|
| W 1 | 6 44 27 | 10♁42'34 | 19♂41 | 24♁26 | 19♁57 | 13♁48 | 8°R 6 | 0°R31 | 15♁57 | 23°R16 | 7°R16 | 5°R 0 | 6♁33 | 12♁34 | 9♁ 2 | W 1 | |
| T 2 | 6 48 23 | 11°43'38 | 4♁23 | 25°59 | 21° 9 | 14°34 | 8II 0 | 0♁27 | 15°59 | 23♁16 | 7♁15 | 4°D59 | 6°30 | 12°41 | 9° 6 | T 2 | |
| F 3 | 6 52 20 | 12°44'43 | 18°45 | 27°32 | 22°21 | 15°19 | 7°55 | 0°22 | 16° 1 | 23°16 | 7°15 | 5♁ 0 | 6°27 | 12°47 | 9°11 | F 3 | |
| S 4 | 6 56 16 | 13°45'48 | 2♁46 | 29° 4 | 23°33 | 16° 5 | 7°49 | 0°18 | 16° 3 | 23°15 | 7°15 | 5° 1 | 6°24 | 12°54 | 9°16 | S 4 | |
| S 5 | 7 0 13 | 14°46'54 | 16°25 | 0♁36 | 24°45 | 16°50 | 7°44 | 0°13 | 16° 5 | 23°15 | 7°14 | 5°R 1 | 6°21 | 13° 1 | 9°21 | S 5 | |
| M 6 | 7 4 10 | 15°48'00 | 29°44 | 2° 6 | 25°57 | 17°36 | 7°39 | 0° 8 | 16° 7 | 23°15 | 7°14 | 5° 0 | 6°18 | 13° 7 | 9°26 | M 6 | |
| T 7 | 7 8 6 | 16°49'07 | 12♁45 | 3°36 | 27° 9 | 18°22 | 7°34 | 0° 4 | 16° 9 | 23°14 | 7°14 | 4°57 | 6°14 | 13°14 | 9°31 | T 7 | |
| W 8 | 7 12 3 | 17°50'15 | 25°32 | 5° 4 | 28°21 | 19° 7 | 7°30 | 29♁59 | 16°11 | 23°14 | 7°13 | 4°52 | 6°11 | 13°21 | 9°36 | W 8 | |
| T 9 | 7 15 59 | 18°51'23 | 8♁ 5 | 6°30 | 29°33 | 19°53 | 7°25 | 29°54 | 16°13 | 23°13 | 7°13 | 4°45 | 6° 8 | 13°27 | 9°41 | T 9 | |
| F 10 | 7 19 56 | 19°52'32 | 20°27 | 7°54 | 0♁44 | 20°39 | 7°21 | 29°49 | 16°15 | 23°13 | 7°13 | 4°36 | 6° 5 | 13°34 | 9°46 | F 10 | |
| S 11 | 7 23 52 | 20°53'40 | 2♁39 | 9°16 | 1°56 | 21°25 | 7°17 | 29°44 | 16°18 | 23°12 | 7°13 | 4°27 | 6° 2 | 13°41 | 9°51 | S 11 | |
| S 12 | 7 27 49 | 21°54'49 | 14°43 | 10°36 | 3° 7 | 22°11 | 7°13 | 29°39 | 16°20 | 23°12 | 7°12 | 4°19 | 5°59 | 13°47 | 9°56 | S 12 | |
| M13 | 7 31 45 | 22°55'58 | 26°40 | 11°51 | 4°19 | 22°56 | 7°10 | 29°35 | 16°22 | 23°11 | 7°12 | 4°12 | 5°55 | 13°54 | 10° 1 | M13 | |
| T 14 | 7 35 42 | 23°57'07 | 8♁31 | 13° 3 | 5°30 | 23°42 | 7° 6 | 29°30 | 16°25 | 23°10 | 7°12 | 4° 6 | 5°52 | 14° 1 | 10° 6 | T 14 | |
| W15 | 7 39 39 | 24°58'16 | 20°19 | 14°10 | 6°41 | 24°28 | 7° 3 | 29°25 | 16°27 | 23°10 | 7°12 | 4° 3 | 5°49 | 14° 7 | 10°11 | W15 | |
| T 16 | 7 43 35 | 25°59'24 | 2♁ 5 | 15°12 | 7°52 | 25°14 | 7° 0 | 29°20 | 16°29 | 23° 9 | 7°12 | 4°D 2 | 5°46 | 14°14 | 10°16 | T 16 | |
| F 17 | 7 47 32 | 27° 0'32 | 13°53 | 16° 8 | 9° 3 | 26° 1 | 6°57 | 29°15 | 16°32 | 23° 8 | 7°12 | 4° 3 | 5°43 | 14°21 | 10°21 | F 17 | |
| S 18 | 7 51 28 | 28° 1'40 | 25°47 | 16°57 | 10°14 | 26°47 | 6°54 | 29°10 | 16°34 | 23° 7 | 7°12 | 4° 4 | 5°39 | 14°27 | 10°26 | S 18 | |
| S 19 | 7 55 25 | 29° 2'48 | 7°50 | 17°38 | 11°25 | 27°33 | 6°52 | 29° 5 | 16°37 | 23° 7 | 7°12 | 4° 6 | 5°36 | 14°34 | 10°31 | S 19 | |
| M20 | 7 59 21 | 0♁ 5'55 | 20° 8 | 18°10 | 12°35 | 28°19 | 6°50 | 29° 0 | 16°40 | 23° 6 | 7°D12 | 4° 7 | 5°33 | 14°41 | 10°36 | M20 | |
| T 21 | 8 3 18 | 1° 3'01 | 2♁46 | 18°32 | 13°46 | 29° 5 | 6°47 | 28°55 | 16°42 | 23° 5 | 7°12 | 4°R 8 | 5°30 | 14°47 | 10°42 | T 21 | |
| W22 | 8 7 14 | 2° 6'07 | 15°47 | 18°45 | 14°56 | 29°51 | 6°46 | 28°50 | 16°45 | 23° 4 | 7°12 | 4° 7 | 5°27 | 14°54 | 10°47 | W22 | |
| T 23 | 8 11 11 | 3° 7'13 | 29°15 | 18°R46 | 16° 7 | 0♁38 | 6°44 | 28°45 | 16°48 | 23° 3 | 7°12 | 4° 5 | 5°24 | 15° 0 | 10°52 | T 23 | |
| F 24 | 8 15 8 | 4° 8'17 | 13II12 | 18°35 | 17°17 | 1°24 | 6°43 | 28°40 | 16°50 | 23° 2 | 7°12 | 4° 1 | 5°20 | 15° 7 | 10°57 | F 24 | |
| S 25 | 8 19 4 | 5° 9'22 | 27°38 | 18°13 | 18°27 | 2°10 | 6°41 | 28°35 | 16°53 | 23° 1 | 7°12 | 3°57 | 5°17 | 15°14 | 11° 2 | S 25 | |
| S 26 | 8 23 1 | 6°10'25 | 12♁28 | 17°39 | 19°37 | 2°57 | 6°40 | 28°30 | 16°56 | 23° 0 | 7°12 | 3°52 | 5°14 | 15°20 | 11° 7 | S 26 | |
| M27 | 8 26 57 | 7°11'28 | 27°35 | 16°53 | 20°46 | 3°43 | 6°39 | 28°26 | 16°59 | 22°59 | 7°12 | 3°49 | 5°11 | 15°27 | 11°13 | M27 | |
| T 28 | 8 30 54 | 8°12'30 | 12♁51 | 15°58 | 21°56 | 4°30 | 6°39 | 28°21 | 17° 2 | 22°58 | 7°12 | 3°46 | 5° 8 | 15°34 | 11°18 | T 28 | |
| W29 | 8 34 50 | 9°13'32 | 28° 4 | 14°55 | 23° 5 | 5°16 | 6°38 | 28°16 | 17° 4 | 22°57 | 7°13 | 3°D45 | 5° 5 | 15°40 | 11°23 | W29 | |
| T 30 | 8 38 47 | 10°14'33 | 13♁ 5 | 13°44 | 24°14 | 6° 3 | 6°38 | 28°11 | 17° 7 | 22°56 | 7°13 | 3°45 | 5° 1 | 15°47 | 11°28 | T 30 | |
| F 31 | 8 42 43 | 11°15'34 | 27♁47 | 12♁30 | 25♁23 | 6°49 | 6°D38 | 28♁ 6 | 17♁10 | 22♁55 | 7♁13 | 3♁46 | 4♁58 | 15°54 | 11°33 | F 31 | |

Delta T = 19m49s

FEBRUARY 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|--------|-------|--------|------|-------|------|-------|-------|------|-----|
| S 1 | 8 46 40 | 12♁16'34 | 12♁ 5 | 11°R13 | 26♁32 | 7°36 | 6II38 | 28°R 2 | 17♁13 | 22°R54 | 7♁13 | 3♁48 | 4♁55 | 16° 0 | 11°38 | S 1 | |
| S 2 | 8 50 37 | 13°17'34 | 25°57 | 9°56 | 27°41 | 8°22 | 6°39 | 27♁57 | 17°16 | 22♁52 | 7°14 | 3°49 | 4°52 | 16° 7 | 11°44 | S 2 | |
| M 3 | 8 54 33 | 14°18'33 | 9II22 | 8°42 | 28°50 | 9° 9 | 6°39 | 27°52 | 17°19 | 22°51 | 7°14 | 3°R50 | 4°49 | 16°14 | 11°49 | M 3 | |
| T 4 | 8 58 30 | 15°19'32 | 22°25 | 7°31 | 29°58 | 9°56 | 6°40 | 27°48 | 17°22 | 22°50 | 7°14 | 3°50 | 4°45 | 16°20 | 11°54 | T 4 | |
| W 5 | 9 2 26 | 16°20'31 | 5♁ 7 | 6°27 | 1°57 | 10°43 | 6°41 | 27°43 | 17°25 | 22°49 | 7°14 | 3°49 | 4°42 | 16°27 | 11°59 | W 5 | |
| T 6 | 9 6 23 | 17°21'29 | 17°31 | 5°31 | 2°14 | 11°29 | 6°43 | 27°39 | 17°28 | 22°47 | 7°15 | 3°47 | 4°39 | 16°34 | 12° 4 | T 6 | |
| F 7 | 9 10 19 | 18°22'26 | 29°43 | 4°42 | 3°22 | 12°16 | 6°44 | 27°34 | 17°31 | 22°46 | 7°15 | 3°45 | 4°36 | 16°40 | 12° 9 | F 7 | |
| S 8 | 9 14 16 | 19°23'23 | 11♁45 | 4° 2 | 4°30 | 13° 3 | 6°46 | 27°30 | 17°34 | 22°45 | 7°16 | 3°43 | 4°33 | 16°47 | 12°15 | S 8 | |
| S 9 | 9 18 12 | 20°24'19 | 23°39 | 3°30 | 5°37 | 13°50 | 6°47 | 27°25 | 17°38 | 22°43 | 7°16 | 3°40 | 4°30 | 16°54 | 12°20 | S 9 | |
| M10 | 9 22 9 | 21°25'14 | 5♁29 | 3° 8 | 6°44 | 14°36 | 6°49 | 27°21 | 17°41 | 22°42 | 7°16 | 3°39 | 4°26 | 17° 0 | 12°25 | M10 | |
| T 11 | 9 26 6 | 22°26'08 | 17°17 | 2°54 | 7°51 | 15°23 | 6°52 | 27°17 | 17°44 | 22°41 | 7°17 | 3°37 | 4°23 | 17° 7 | 12°30 | T 11 | |
| W12 | 9 30 2 | 23°27'01 | 29° 4 | 2°D48 | 8°58 | 16°10 | 6°54 | 27°13 | 17°47 | 22°39 | 7°17 | 3°D37 | 4°20 | 17°14 | 12°35 | W12 | |
| T 13 | 9 33 59 | 24°27'53 | 10♁54 | 2°50 | 10° 5 | 16°57 | 6°57 | 27° 8 | 17°50 | 22°38 | 7°18 | 3°37 | 4°17 | 17°20 | 12°40 | T 13 | |
| F 14 | 9 37 55 | 25°28'44 | 22°48 | 2°59 | 11°11 | 17°44 | 7° 0 | 27° 4 | 17°54 | 22°36 | 7°18 | 3°37 | 4°14 | 17°27 | 12°45 | F 14 | |
| S 15 | 9 41 52 | 26°29'33 | 4°54 | 3°15 | 12°17 | 18°31 | 7° 3 | 27° 0 | 17°57 | 22°35 | 7°19 | 3°38 | 4°10 | 17°33 | 12°50 | S 15 | |
| S 16 | 9 45 48 | 27°30'21 | 16°58 | 3°36 | 13°23 | 19°18 | 7° 6 | 26°56 | 18° 0 | 22°34 | 7°20 | 3°39 | 4° 7 | 17°40 | 12°55 | S 16 | |
| M17 | 9 49 45 | 28°31'08 | 29°21 | 4° 4 | 14°28 | 20° 5 | 7° 9 | 26°53 | 18° 3 | 22°32 | 7°20 | 3°39 | 4° 4 | 17°47 | 13° 0 | M17 | |
| T 18 | 9 53 41 | 29°31'53 | 12♁ 0 | 4°37 | 15°33 | 20°52 | 7°13 | 26°49 | 18° 7 | 22°31 | 7°21 | 3°40 | 4° 1 | 17°53 | 13° 5 | T 18 | |
| W19 | 9 57 38 | 0♁32'37 | 24°57 | 5°15 | 16°38 | 21°39 | 7°17 | 26°45 | 18°10 | 22°29 | 7°21 | 3°40 | 3°58 | 18° 0 | 13°11 | W19 | |
| T 20 | 10 1 35 | 1°33'20 | 8II17 | 5°57 | 17°43 | 22°26 | 7°21 | 26°42 | 18°13 | 22°28 | 7°22 | 3°R40 | 3°55 | 18° 7 | 13°15 | T 20 | |
| F 21 | 10 5 31 | 2°34'00 | 22° 2 | 6°43 | 18°48 | 23°13 | 7°25 | 26°38 | 18°17 | 22°26 | 7°23 | 3°40 | 3°51 | 18°13 | 13°20 | F 21 | |
| S 22 | 10 9 28 | 3°34'40 | 6♁12 | 7°33 | 19°52 | 24° 0 | 7°29 | 26°35 | 18°20 | 22°24 | 7°23 | 3°D40 | 3°48 | 18°20 | 13°25 | S 22 | |
| S 23 | 10 13 24 | 4°35'17 | 20°45 | 8°26 | 20°55 | 24°47 | 7°34 | 26°31 | 18°23 | 22°23 | 7°24 | 3°40 | 3°45 | 18°27 | 13°30 | S 23 | |
| M24 | 10 17 21 | 5°35'53 | 5♁38 | 9°23 | 21°59 | 25°34 | 7°38 | 26°28 | 18°27 | 22°21 | 7°25 | 3°40 | 3°42 | 18°33 | 13°35 | M24 | |
| T 25 | 10 21 17 | 6°36'27 | 20°44 | 10°22 | 23° 2 | 26°22 | 7°43 | 26°25 | 18°30 | 22°20 | 7°26 | 3°40 | 3°39 | 18°40 | 13°40 | T 25 | |
| W26 | 10 25 14 | 7°37'00 | 5♁55 | 11°24 | 24° 5 | 27° 9 | 7°48 | 26°22 | 18°34 | 22°18 | 7°26 | 3°R40 | 3°36 | 18°47 | 13°45 | W26 | |
| T 27 | 10 29 10 | 8°37'31 | 21° 1 | 12°28 | 25° 7 | 27°56 | 7°54 | 26°19 | 18°37 | 22°17 | 7°27 | 3°40 | 3°32 | 18°53 | 13°50 | T 27 | |
| F 28 | 10 33 7 | 9♁38'01 | 5♁53 | 13°35 | 26°57 | 28°43 | 7II59 | 26♁16 | 18♁40 | 22♁15 | 7♁28 | 3♁40 | 3♁29 | 19° 0 | 13°55 | F 28 | |

Delta T = 19m49s

ASTRODIENST EPHEMERIS for the year 2594
geocentric

MARCH 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--------------------|---------------------|-------------------|--------------------|-------------------|--------------------|--------------------|------|---|---|---|---|---|---|---|-----|
| S 1 | 10 37 4 | 10 ^h 38'30 | 20 ^h 24 | 14 ^h 44 | 27 ^h 11 | 29 ^h 30 | 8 ^h 5 | 26 ^h R13 | 18 ^h 44 | 22 ^h R13 | 7 ^h 29 | 3 ^h R39 | 3 ^h 26 | 19 ^h 7 | 13 ^h 59 | S 1 | | | | | | | | |
| S 2 | 10 41 0 | 11 ^h 38'57 | 4 ^h 29 | 15 ^h 54 | 28 ^h 12 | 0 ^h 17 | 8 ^h 10 | 26 ^h 10 | 18 ^h 47 | 22 ^h 12 | 7 ^h 30 | 3 ^h 38 | 3 ^h 23 | 19 ^h 13 | 14 ^h 4 | S 2 | | | | | | | | |
| M 3 | 10 44 57 | 12 ^h 39'22 | 18 ^h 6 | 17 ^h 7 | 29 ^h 13 | 1 ^h 4 | 8 ^h 16 | 26 ^h 8 | 18 ^h 51 | 22 ^h 10 | 7 ^h 30 | 3 ^h 37 | 3 ^h 20 | 19 ^h 20 | 14 ^h 9 | M 3 | | | | | | | | |
| T 4 | 10 48 53 | 13 ^h 39'47 | 1 ^h 17 | 18 ^h 22 | 0 ^h 13 | 1 ^h 52 | 8 ^h 22 | 26 ^h 5 | 18 ^h 54 | 22 ^h 8 | 7 ^h 31 | 3 ^h 36 | 3 ^h 16 | 19 ^h 27 | 14 ^h 13 | T 4 | | | | | | | | |
| W 5 | 10 52 50 | 14 ^h 40'10 | 14 ^h 3 | 19 ^h 38 | 1 ^h 13 | 2 ^h 39 | 8 ^h 29 | 26 ^h 3 | 18 ^h 58 | 22 ^h 7 | 7 ^h 32 | 3 ^h D36 | 3 ^h 13 | 19 ^h 33 | 14 ^h 18 | W 5 | | | | | | | | |
| T 6 | 10 56 46 | 15 ^h 40'32 | 26 ^h 28 | 20 ^h 56 | 2 ^h 12 | 3 ^h 26 | 8 ^h 35 | 26 ^h 0 | 19 ^h 1 | 22 ^h 5 | 7 ^h 33 | 3 ^h 36 | 3 ^h 10 | 19 ^h 40 | 14 ^h 23 | T 6 | | | | | | | | |
| F 7 | 11 0 43 | 16 ^h 40'53 | 8 ^h 37 | 22 ^h 15 | 3 ^h 11 | 4 ^h 13 | 8 ^h 42 | 25 ^h 58 | 19 ^h 4 | 22 ^h 3 | 7 ^h 34 | 3 ^h 37 | 3 ^h 7 | 19 ^h 46 | 14 ^h 27 | F 7 | | | | | | | | |
| S 8 | 11 4 39 | 17 ^h 41'12 | 20 ^h 34 | 23 ^h 35 | 4 ^h 10 | 5 ^h 1 | 8 ^h 48 | 25 ^h 56 | 19 ^h 8 | 22 ^h 2 | 7 ^h 35 | 3 ^h 38 | 3 ^h 4 | 19 ^h 53 | 14 ^h 32 | S 8 | | | | | | | | |
| S 9 | 11 8 36 | 18 ^h 41'30 | 2 ^h 24 | 24 ^h 58 | 5 ^h 8 | 5 ^h 48 | 8 ^h 55 | 25 ^h 54 | 19 ^h 11 | 22 ^h 0 | 7 ^h 36 | 3 ^h 40 | 3 ^h 1 | 20 ^h 0 | 14 ^h 36 | S 9 | | | | | | | | |
| M10 | 11 12 33 | 19 ^h 41'46 | 14 ^h 11 | 26 ^h 21 | 6 ^h 6 | 6 ^h 35 | 9 ^h 2 | 25 ^h 52 | 19 ^h 15 | 21 ^h 58 | 7 ^h 37 | 3 ^h 41 | 2 ^h 57 | 20 ^h 6 | 14 ^h 41 | M10 | | | | | | | | |
| T 11 | 11 16 29 | 20 ^h 42'00 | 25 ^h 58 | 27 ^h 46 | 7 ^h 3 | 7 ^h 22 | 9 ^h 9 | 25 ^h 50 | 19 ^h 18 | 21 ^h 57 | 7 ^h 38 | 3 ^h 42 | 2 ^h 54 | 20 ^h 13 | 14 ^h 45 | T 11 | | | | | | | | |
| W12 | 11 20 26 | 21 ^h 42'13 | 7 ^h 48 | 29 ^h 12 | 7 ^h 59 | 8 ^h 10 | 9 ^h 17 | 25 ^h 48 | 19 ^h 22 | 21 ^h 55 | 7 ^h 39 | 3 ^h R42 | 2 ^h 51 | 20 ^h 20 | 14 ^h 50 | W12 | | | | | | | | |
| T 13 | 11 24 22 | 22 ^h 42'24 | 19 ^h 44 | 0 ^h 39 | 8 ^h 55 | 8 ^h 57 | 9 ^h 24 | 25 ^h 47 | 19 ^h 25 | 21 ^h 53 | 7 ^h 40 | 3 ^h 41 | 2 ^h 48 | 20 ^h 26 | 14 ^h 54 | T 13 | | | | | | | | |
| F 14 | 11 28 19 | 23 ^h 42'34 | 1 ^h 48 | 2 ^h 7 | 9 ^h 51 | 9 ^h 44 | 9 ^h 32 | 25 ^h 45 | 19 ^h 29 | 21 ^h 52 | 7 ^h 41 | 3 ^h 39 | 2 ^h 45 | 20 ^h 33 | 14 ^h 58 | F 14 | | | | | | | | |
| S 15 | 11 32 15 | 24 ^h 42'41 | 14 ^h 1 | 3 ^h 37 | 10 ^h 45 | 10 ^h 31 | 9 ^h 40 | 25 ^h 44 | 19 ^h 32 | 21 ^h 50 | 7 ^h 42 | 3 ^h 37 | 2 ^h 41 | 20 ^h 40 | 15 ^h 3 | S 15 | | | | | | | | |
| S 16 | 11 36 12 | 25 ^h 42'47 | 26 ^h 25 | 5 ^h 8 | 11 ^h 40 | 11 ^h 19 | 9 ^h 48 | 25 ^h 43 | 19 ^h 35 | 21 ^h 48 | 7 ^h 43 | 3 ^h 33 | 2 ^h 38 | 20 ^h 46 | 15 ^h 7 | S 16 | | | | | | | | |
| M17 | 11 40 8 | 26 ^h 42'51 | 9 ^h 2 | 6 ^h 40 | 12 ^h 33 | 12 ^h 6 | 9 ^h 56 | 25 ^h 41 | 19 ^h 39 | 21 ^h 47 | 7 ^h 44 | 3 ^h 29 | 2 ^h 35 | 20 ^h 53 | 15 ^h 11 | M17 | | | | | | | | |
| T 18 | 11 44 5 | 27 ^h 42'52 | 21 ^h 51 | 8 ^h 13 | 13 ^h 26 | 12 ^h 53 | 10 ^h 4 | 25 ^h 40 | 19 ^h 42 | 21 ^h 45 | 7 ^h 45 | 3 ^h 26 | 2 ^h 32 | 21 ^h 0 | 15 ^h 15 | T 18 | | | | | | | | |
| W19 | 11 48 1 | 28 ^h 42'52 | 4 ^h 56 | 9 ^h 47 | 14 ^h 18 | 13 ^h 40 | 10 ^h 12 | 25 ^h 39 | 19 ^h 46 | 21 ^h 43 | 7 ^h 46 | 3 ^h 23 | 2 ^h 29 | 21 ^h 6 | 15 ^h 19 | W19 | | | | | | | | |
| T 20 | 11 51 58 | 29 ^h 42'50 | 18 ^h 17 | 11 ^h 23 | 15 ^h 9 | 14 ^h 28 | 10 ^h 21 | 25 ^h 39 | 19 ^h 49 | 21 ^h 42 | 7 ^h 48 | 3 ^h 21 | 2 ^h 26 | 21 ^h 13 | 15 ^h 23 | T 20 | | | | | | | | |
| F 21 | 11 55 55 | 0 ^h 42'45 | 1 ^h 55 | 12 ^h 59 | 16 ^h 0 | 15 ^h 15 | 10 ^h 29 | 25 ^h 38 | 19 ^h 52 | 21 ^h 40 | 7 ^h 49 | 3 ^h D21 | 2 ^h 22 | 21 ^h 20 | 15 ^h 27 | F 21 | | | | | | | | |
| S 22 | 11 59 51 | 1 ^h 42'38 | 15 ^h 52 | 14 ^h 37 | 16 ^h 50 | 16 ^h 2 | 10 ^h 38 | 25 ^h 37 | 19 ^h 56 | 21 ^h 38 | 7 ^h 50 | 3 ^h 21 | 2 ^h 19 | 21 ^h 26 | 15 ^h 31 | S 22 | | | | | | | | |
| S 23 | 12 3 48 | 2 ^h 42'29 | 0 ^h 6 | 16 ^h 16 | 17 ^h 39 | 16 ^h 49 | 10 ^h 47 | 25 ^h 37 | 19 ^h 59 | 21 ^h 37 | 7 ^h 51 | 3 ^h 23 | 2 ^h 16 | 21 ^h 33 | 15 ^h 35 | S 23 | | | | | | | | |
| M24 | 12 7 44 | 3 ^h 42'18 | 14 ^h 37 | 17 ^h 56 | 18 ^h 27 | 17 ^h 36 | 10 ^h 56 | 25 ^h 36 | 20 ^h 3 | 21 ^h 35 | 7 ^h 52 | 3 ^h 24 | 2 ^h 13 | 21 ^h 39 | 15 ^h 39 | M24 | | | | | | | | |
| T 25 | 12 11 41 | 4 ^h 42'05 | 29 ^h 21 | 19 ^h 37 | 19 ^h 14 | 18 ^h 24 | 11 ^h 5 | 25 ^h 36 | 20 ^h 6 | 21 ^h 34 | 7 ^h 53 | 3 ^h R25 | 2 ^h 10 | 21 ^h 46 | 15 ^h 43 | T 25 | | | | | | | | |
| W26 | 12 15 37 | 5 ^h 41'49 | 14 ^h 12 | 21 ^h 20 | 20 ^h 1 | 19 ^h 11 | 11 ^h 14 | 25 ^h 36 | 20 ^h 9 | 21 ^h 32 | 7 ^h 55 | 3 ^h 25 | 2 ^h 7 | 21 ^h 53 | 15 ^h 47 | W26 | | | | | | | | |
| T 27 | 12 19 34 | 6 ^h 41'31 | 29 ^h 4 | 23 ^h 4 | 20 ^h 46 | 19 ^h 58 | 11 ^h 24 | 25 ^h D36 | 20 ^h 13 | 21 ^h 30 | 7 ^h 56 | 3 ^h 23 | 2 ^h 3 | 21 ^h 59 | 15 ^h 51 | T 27 | | | | | | | | |
| F 28 | 12 23 30 | 7 ^h 41'12 | 13 ^h 48 | 24 ^h 49 | 21 ^h 31 | 20 ^h 45 | 11 ^h 33 | 25 ^h 36 | 20 ^h 16 | 21 ^h 29 | 7 ^h 57 | 3 ^h 19 | 2 ^h 0 | 22 ^h 6 | 15 ^h 54 | F 28 | | | | | | | | |
| S 29 | 12 27 27 | 8 ^h 40'50 | 28 ^h 17 | 26 ^h 35 | 22 ^h 14 | 21 ^h 32 | 11 ^h 43 | 25 ^h 36 | 20 ^h 19 | 21 ^h 27 | 7 ^h 58 | 3 ^h 14 | 1 ^h 57 | 22 ^h 13 | 15 ^h 58 | S 29 | | | | | | | | |
| S 30 | 12 31 24 | 9 ^h 40'26 | 12 ^h 25 | 28 ^h 22 | 22 ^h 56 | 22 ^h 20 | 11 ^h 53 | 25 ^h 36 | 20 ^h 23 | 21 ^h 26 | 7 ^h 59 | 3 ^h 8 | 1 ^h 54 | 22 ^h 19 | 16 ^h 2 | S 30 | | | | | | | | |
| M31 | 12 35 20 | 10 ^h 40'01 | 26 ^h 9 | 0 ^h 11 | 23 ^h 38 | 23 ^h 7 | 12 ^h II 2 | 25 ^h 37 | 20 ^h 26 | 21 ^h 24 | 8 ^h 1 | 3 ^h 3 | 1 ^h 51 | 22 ^h 26 | 16 ^h 5 | M31 | | | | | | | | |

Delta T = 19m49s

APRIL 2594

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|-----------------------|--------------------|--------------------|----------------------|--------------------|-----------------------|--------------------|--------------------|---------------------|-------------------|--------------------|-------------------|--------------------|--------------------|------|---|---|---|---|---|---|---|-----|
| T 1 | 12 39 17 | 11 ^h 39'34 | 9 ^h 26 | 2 ^h 1 | 24 ^h 18 | 23 ^h 54 | 12 ^h II 12 | 25 ^h 37 | 20 ^h 29 | 21 ^h R22 | 8 ^h 2 | 2 ^h R58 | 1 ^h 47 | 22 ^h 33 | 16 ^h 9 | T 1 | | | | | | | | |
| W 2 | 12 43 13 | 12 ^h 39'06 | 22 ^h 17 | 3 ^h 52 | 24 ^h 57 | 24 ^h 41 | 12 ^h 22 | 25 ^h 38 | 20 ^h 32 | 21 ^h 21 | 8 ^h 3 | 2 ^h 54 | 1 ^h 44 | 22 ^h 39 | 16 ^h 12 | W 2 | | | | | | | | |
| T 3 | 12 47 10 | 13 ^h 38'35 | 4 ^h 36 | 5 ^h 45 | 25 ^h 34 | 25 ^h 28 | 12 ^h 33 | 25 ^h 39 | 20 ^h 36 | 21 ^h 19 | 8 ^h 4 | 2 ^h 52 | 1 ^h 41 | 22 ^h 46 | 16 ^h 15 | T 3 | | | | | | | | |
| F 4 | 12 51 6 | 14 ^h 38'03 | 16 ^h 57 | 7 ^h 38 | 26 ^h 11 | 26 ^h 15 | 12 ^h 43 | 25 ^h 39 | 20 ^h 39 | 21 ^h 18 | 8 ^h 6 | 2 ^h D51 | 1 ^h 38 | 22 ^h 53 | 16 ^h 19 | F 4 | | | | | | | | |
| S 5 | 12 55 3 | 15 ^h 37'29 | 28 ^h 55 | 9 ^h 33 | 26 ^h 46 | 27 ^h 2 | 12 ^h 53 | 25 ^h 40 | 20 ^h 42 | 21 ^h 16 | 8 ^h 7 | 2 ^h 52 | 1 ^h 35 | 22 ^h 59 | 16 ^h 22 | S 5 | | | | | | | | |
| S 6 | 12 58 59 | 16 ^h 36'54 | 10 ^h 45 | 11 ^h 30 | 27 ^h 20 | 27 ^h 49 | 13 ^h 4 | 25 ^h 41 | 20 ^h 45 | 21 ^h 15 | 8 ^h 8 | 2 ^h 54 | 1 ^h 32 | 23 ^h 6 | 16 ^h 25 | S 6 | | | | | | | | |
| M 7 | 13 2 56 | 17 ^h 36'16 | 22 ^h 31 | 13 ^h 27 | 27 ^h 52 | 28 ^h 36 | 13 ^h 14 | 25 ^h 43 | 20 ^h 48 | 21 ^h 13 | 8 ^h 10 | 2 ^h 55 | 1 ^h 28 | 23 ^h 13 | 16 ^h 28 | M 7 | | | | | | | | |
| T 8 | 13 6 53 | 18 ^h 35'37 | 4 ^h 20 | 15 ^h 26 | 28 ^h 23 | 29 ^h 24 | 13 ^h 25 | 25 ^h 44 | 20 ^h 52 | 21 ^h 12 | 8 ^h 11 | 2 ^h R56 | 1 ^h 25 | 23 ^h 19 | 16 ^h 31 | T 8 | | | | | | | | |
| W 9 | 13 10 49 | 19 ^h 34'56 | 16 ^h 14 | 17 ^h 26 | 28 ^h 52 | 0 ^h 11 | 13 ^h 36 | 25 ^h 45 | 20 ^h 55 | 21 ^h 11 | 8 ^h 12 | 2 ^h 54 | 1 ^h 22 | 23 ^h 26 | 16 ^h 34 | W 9 | | | | | | | | |
| T 10 | 13 14 46 | 20 ^h 34'13 | 28 ^h 18 | 19 ^h 27 | 29 ^h 20 | 0 ^h 58 | 13 ^h 47 | 25 ^h 47 | 20 ^h 58 | 21 ^h 9 | 8 ^h 14 | 2 ^h 51 | 1 ^h 19 | 23 ^h 32 | 16 ^h 37 | T 10 | | | | | | | | |
| F 11 | 13 18 42 | 21 ^h 33'28 | 10 ^h 34 | 21 ^h 29 | 29 ^h 46 | 1 ^h 45 | 13 ^h 58 | 25 ^h 48 | 21 ^h 1 | 21 ^h 8 | 8 ^h 15 | 2 ^h 46 | 1 ^h 16 | 23 ^h 39 | 16 ^h 40 | F 11 | | | | | | | | |
| S 12 | 13 22 39 | 22 ^h 32'41 | 23 ^h 3 | 23 ^h 32 | 0 ^h II 10 | 2 ^h 32 | 14 ^h 9 | 25 ^h 50 | 21 ^h 4 | 21 ^h 6 | 8 ^h 16 | 2 ^h 39 | 1 ^h 13 | 23 ^h 46 | 16 ^h 43 | S 12 | | | | | | | | |
| S 13 | 13 26 35 | 23 ^h 31'52 | 5 ^h 46 | 25 ^h 36 | 0 ^h 33 | 3 ^h 18 | 14 ^h 20 | 25 ^h 52 | 21 ^h 7 | 21 ^h 5 | 8 ^h 18 | 2 ^h 30 | 1 ^h 9 | 23 ^h 52 | 16 ^h 46 | S 13 | | | | | | | | |
| M14 | 13 30 32 | 24 ^h 31'01 | 18 ^h 43 | 27 ^h 40 | 0 ^h 53 | 4 ^h 5 | 14 ^h 31 | 25 ^h 54 | 21 ^h 10 | 21 ^h 4 | 8 ^h 19 | 2 ^h 20 | 1 ^h 6 | 23 ^h 59 | 16 ^h 49 | M14 | | | | | | | | |
| T 15 | 13 34 28 | 25 ^h 30'08 | 1 ^h 53 | 29 ^h 44 | 1 ^h 12 | 4 ^h 52 | 14 | | | | | | | | | | | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2594
geocentric

MAY 2594

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| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|--------|------|-------|-------|-------|--------|------|-----|
| T 1 | 14 37 33 | 11♁11'05 | 12♁41 | 29♁57 | 1°R10 | 17♁19 | 17♁54 | 26♁42 | 21♁57 | 20°R44 | 8♁42 | 0°R47 | 0♁12 | 25♁52 | 17♁25 | T 1 | |
| F 2 | 14 41 30 | 12° 9'37 | 24°54 | 1♁23 | 0♁49 | 18° 5 | 18° 7 | 26°46 | 22° 0 | 20♁43 | 8°44 | 0♁43 | 0° 9 | 25°59 | 17°27 | F 2 | |
| S 3 | 14 45 26 | 13° 8'07 | 6♁53 | 2°45 | 0°26 | 18°52 | 18°19 | 26°49 | 22° 2 | 20°42 | 8°45 | 0°42 | 0° 6 | 26° 5 | 17°28 | S 3 | |
| S 4 | 14 49 23 | 14° 6'36 | 18°44 | 4° 3 | 0° 2 | 19°38 | 18°32 | 26°53 | 22° 5 | 20°42 | 8°47 | 0°D42 | 0° 3 | 26°12 | 17°30 | S 4 | |
| M 5 | 14 53 19 | 15° 5'04 | 0♁32 | 5°15 | 29♁35 | 20°24 | 18°45 | 26°57 | 22° 7 | 20°41 | 8°48 | 0°R42 | 29♁59 | 26°19 | 17°31 | M 5 | |
| T 6 | 14 57 16 | 16° 3'29 | 12°22 | 6°23 | 29° 6 | 21°11 | 18°57 | 27° 1 | 22° 9 | 20°40 | 8°49 | 0°41 | 29°56 | 26°25 | 17°32 | T 6 | |
| W 7 | 15 1 13 | 17° 1'54 | 24°20 | 7°26 | 28°35 | 21°57 | 19°10 | 27° 6 | 22°12 | 20°39 | 8°51 | 0°39 | 29°53 | 26°32 | 17°34 | W 7 | |
| T 8 | 15 5 9 | 18° 0'16 | 6°30 | 8°24 | 28° 3 | 22°43 | 19°23 | 27°10 | 22°14 | 20°38 | 8°52 | 0°34 | 29°50 | 26°38 | 17°35 | T 8 | |
| F 9 | 15 9 6 | 18°58'37 | 18°55 | 9°17 | 27°29 | 23°29 | 19°36 | 27°14 | 22°16 | 20°38 | 8°53 | 0°27 | 29°47 | 26°45 | 17°36 | F 9 | |
| S 10 | 15 13 2 | 19°56'56 | 1♁39 | 10° 4 | 26°54 | 24°16 | 19°49 | 27°19 | 22°18 | 20°37 | 8°55 | 0°17 | 29°44 | 26°52 | 17°37 | S 10 | |
| S 11 | 15 16 59 | 20°55'14 | 14°40 | 10°46 | 26°18 | 25° 2 | 20° 2 | 27°23 | 22°21 | 20°36 | 8°56 | 0° 5 | 29°40 | 26°58 | 17°38 | S 11 | |
| M12 | 15 20 55 | 21°53'30 | 27°59 | 11°23 | 25°42 | 25°48 | 20°15 | 27°28 | 22°23 | 20°36 | 8°58 | 29♁53 | 29°37 | 27° 5 | 17°38 | M12 | |
| T 13 | 15 24 52 | 22°51'45 | 11♁34 | 11°55 | 25° 4 | 26°34 | 20°28 | 27°32 | 22°25 | 20°35 | 8°59 | 29°41 | 29°34 | 27°12 | 17°39 | T 13 | |
| W14 | 15 28 48 | 23°49'57 | 25°20 | 12°21 | 24°27 | 27°20 | 20°41 | 27°37 | 22°27 | 20°34 | 9° 0 | 29°30 | 29°31 | 27°18 | 17°40 | W14 | |
| T 15 | 15 32 45 | 24°48'08 | 9♁16 | 12°43 | 23°49 | 28° 6 | 20°55 | 27°42 | 22°29 | 20°34 | 9° 2 | 29°22 | 29°28 | 27°25 | 17°41 | T 15 | |
| F 16 | 15 36 42 | 25°46'17 | 23°17 | 12°58 | 23°12 | 28°51 | 21° 8 | 27°47 | 22°31 | 20°33 | 9° 3 | 29°17 | 29°24 | 27°32 | 17°41 | F 16 | |
| S 17 | 15 40 38 | 26°44'24 | 7♁22 | 13° 9 | 22°34 | 29°37 | 21°21 | 27°52 | 22°33 | 20°33 | 9° 4 | 29°14 | 29°21 | 27°38 | 17°42 | S 17 | |
| S 18 | 15 44 35 | 27°42'29 | 21°28 | 13°14 | 21°58 | 0♁23 | 21°35 | 27°57 | 22°35 | 20°33 | 9° 6 | 29°13 | 29°18 | 27°45 | 17°42 | S 18 | |
| M19 | 15 48 31 | 28°40'32 | 5♁35 | 13°R14 | 21°22 | 1° 9 | 21°48 | 28° 2 | 22°37 | 20°32 | 9° 7 | 29°13 | 29°15 | 27°52 | 17°42 | M19 | |
| T 20 | 15 52 28 | 29°38'33 | 19°42 | 13° 9 | 20°48 | 1°55 | 22° 1 | 28° 7 | 22°38 | 20°32 | 9° 8 | 29°13 | 29°12 | 27°58 | 17°43 | T 20 | |
| W21 | 15 56 24 | 0♁36'32 | 3♁47 | 13° 0 | 20°15 | 2°40 | 22°15 | 28°12 | 22°40 | 20°31 | 9°10 | 29°10 | 29° 9 | 28° 5 | 17°43 | W21 | |
| T 22 | 16 0 21 | 1°34'30 | 17°48 | 12°46 | 19°43 | 3°26 | 22°28 | 28°18 | 22°42 | 20°31 | 9°11 | 29° 5 | 29° 5 | 28°12 | 17°43 | T 22 | |
| F 23 | 16 4 17 | 2°32'25 | 1♁44 | 12°27 | 19°13 | 4°11 | 22°42 | 28°23 | 22°44 | 20°31 | 9°12 | 28°57 | 29° 2 | 28°18 | 17°R43 | F 23 | |
| S 24 | 16 8 14 | 3°30'19 | 15°31 | 12° 5 | 18°45 | 4°57 | 22°55 | 28°29 | 22°45 | 20°31 | 9°13 | 28°47 | 28°59 | 28°25 | 17°43 | S 24 | |
| S 25 | 16 12 11 | 4°28'12 | 29° 6 | 11°40 | 18°18 | 5°42 | 23° 9 | 28°34 | 22°47 | 20°30 | 9°15 | 28°35 | 28°56 | 28°31 | 17°43 | S 25 | |
| M26 | 16 16 7 | 5°26'03 | 12♁25 | 11°12 | 17°54 | 6°28 | 23°22 | 28°40 | 22°48 | 20°30 | 9°16 | 28°22 | 28°53 | 28°38 | 17°43 | M26 | |
| T 27 | 16 20 4 | 6°23'53 | 25°27 | 10°41 | 17°32 | 7°13 | 23°36 | 28°46 | 22°50 | 20°30 | 9°17 | 28°11 | 28°50 | 28°45 | 17°42 | T 27 | |
| W28 | 16 24 0 | 7°21'41 | 8♁10 | 10° 8 | 17°12 | 7°58 | 23°50 | 28°51 | 22°51 | 20°30 | 9°19 | 28° 1 | 28°46 | 28°51 | 17°42 | W28 | |
| T 29 | 16 27 57 | 8°19'28 | 20°36 | 9°34 | 16°55 | 8°44 | 24° 3 | 28°57 | 22°53 | 20°30 | 9°20 | 27°54 | 28°43 | 28°58 | 17°42 | T 29 | |
| F 30 | 16 31 53 | 9°17'14 | 2♁46 | 9° 0 | 16°40 | 9°29 | 24°17 | 29° 3 | 22°54 | 20°30 | 9°21 | 27°49 | 28°40 | 29° 5 | 17°41 | F 30 | |
| S 31 | 16 35 50 | 10♁14'59 | 14♁45 | 8♁25 | 16♁28 | 10♁14 | 24♁31 | 29♁ 9 | 22♁55 | 20°D30 | 9♁22 | 27♁46 | 28♁37 | 29♁11 | 17♁41 | S 31 | |

Delta T = 19m50s

JUNE 2594

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| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ | ♁ | ♂ | ♁ | ♂ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|-------|--------|-------|------|--------|-------|-------|--------|------|-----|
| S 1 | 16 39 46 | 11♁12'43 | 26♁36 | 7°R51 | 16°R18 | 10♁59 | 24♁44 | 29♁15 | 22♁57 | 20♁30 | 9♁23 | 27°D46 | 28♁34 | 29♁18 | 17°R40 | S 1 | |
| M 2 | 16 43 43 | 12°10'26 | 8♁24 | 7♁18 | 16♁10 | 11°44 | 24°58 | 29°21 | 22°58 | 20°30 | 9°25 | 27°R46 | 28°30 | 29°25 | 17♁39 | M 2 | |
| T 3 | 16 47 40 | 13° 8'07 | 20°15 | 6°47 | 16° 5 | 12°29 | 25°12 | 29°27 | 22°59 | 20°30 | 9°26 | 27♁46 | 28°27 | 29°31 | 17°39 | T 3 | |
| W 4 | 16 51 36 | 14° 5'48 | 2°31 | 6°18 | 16° 2 | 13°14 | 25°26 | 29°34 | 23° 0 | 20°30 | 9°27 | 27°44 | 28°24 | 29°38 | 17°38 | W 4 | |
| T 5 | 16 55 33 | 15° 3'27 | 14°28 | 5°51 | 16°D 1 | 13°59 | 25°40 | 29°40 | 23° 1 | 20°30 | 9°28 | 27°41 | 28°21 | 29°45 | 17°37 | T 5 | |
| F 6 | 16 59 29 | 16° 1'06 | 26°59 | 5°28 | 16° 3 | 14°44 | 25°53 | 29°46 | 23° 2 | 20°30 | 9°29 | 27°35 | 28°18 | 29°51 | 17°36 | F 6 | |
| S 7 | 17 3 26 | 16°58'44 | 9♁50 | 5° 8 | 16° 7 | 15°29 | 26° 7 | 29°52 | 23° 3 | 20°30 | 9°30 | 27°27 | 28°15 | 29°58 | 17°35 | S 7 | |
| S 8 | 17 7 22 | 17°56'21 | 23° 5 | 4°52 | 16°14 | 16°14 | 26°21 | 29°59 | 23° 4 | 20°31 | 9°32 | 27°17 | 28°11 | 0♁ 4 | 17°34 | S 8 | |
| M 9 | 17 11 19 | 18°53'57 | 6♁41 | 4°40 | 16°22 | 16°59 | 26°35 | 0♁ 5 | 23° 5 | 20°31 | 9°33 | 27° 6 | 28° 8 | 0°11 | 17°33 | M 9 | |
| T 10 | 17 15 15 | 19°51'32 | 20°37 | 4°32 | 16°33 | 17°43 | 26°49 | 0°12 | 23° 6 | 20°31 | 9°34 | 26°55 | 28° 5 | 0°18 | 17°31 | T 10 | |
| W11 | 17 19 12 | 20°49'06 | 4♁48 | 4°D28 | 16°46 | 18°28 | 27° 3 | 0°18 | 23° 7 | 20°31 | 9°35 | 26°46 | 28° 2 | 0°24 | 17°30 | W11 | |
| T 12 | 17 23 9 | 21°46'39 | 19° 9 | 4°29 | 17° 1 | 19°13 | 27°16 | 0°25 | 23° 8 | 20°32 | 9°36 | 26°39 | 27°59 | 0°31 | 17°29 | T 12 | |
| F 13 | 17 27 5 | 22°44'10 | 3♁35 | 4°34 | 17°17 | 19°57 | 27°30 | 0°32 | 23° 8 | 20°32 | 9°37 | 26°35 | 27°56 | 0°38 | 17°27 | F 13 | |
| S 14 | 17 31 2 | 23°41'41 | 18° 0 | 4°43 | 17°36 | 20°42 | 27°44 | 0°39 | 23° 9 | 20°33 | 9°38 | 26°33 | 27°52 | 0°44 | 17°26 | S 14 | |
| S 15 | 17 34 58 | 24°39'10 | 2♁20 | 4°57 | 17°56 | 21°26 | 27°58 | 0°45 | 23°10 | 20°33 | 9°39 | 26°D33 | 27°49 | 0°51 | 17°24 | S 15 | |
| M16 | 17 38 55 | 25°36'38 | 16°33 | 5°16 | 18°18 | 22°10 | 28°12 | 0°52 | 23°10 | 20°34 | 9°40 | 26°33 | 27°46 | 0°58 | 17°23 | M16 | |
| T 17 | 17 42 51 | 26°34'04 | 0♁37 | 5°39 | 18°42 | 22°55 | 28°26 | 0°59 | 23°11 | 20°34 | 9°41 | 26°R33 | 27°43 | 1° 4 | 17°21 | T 17 | |
| W18 | 17 46 48 | 27°31'30 | 14°31 | 6° 6 | 19° 8 | 23°39 | 28°40 | 1° 6 | 23°11 | 20°35 | 9°42 | 26°32 | 27°40 | 1°11 | 17°19 | W18 | |
| T 19 | 17 50 44 | 28°28'54 | 28°16 | 6°38 | 19°35 | 24°23 | 28°54 | 1°13 | 23°12 | 20°35 | 9°43 | 26°29 | 27°36 | 1°18 | 17°18 | T 19 | |
| F 20 | 17 54 41 | 29°26'18 | 11♁50 | 7°14 | 20° 3 | 25° 7 | 29° 8 | 1°20 | 23°12 | 20°36 | 9°44 | 26°23 | 27°33 | 1°24 | 17°16 | F 20 | |
| S 21 | 17 58 38 | 0♁23'40 | 25°13 | 7°54 | 20°33 | 25°51 | 29°22 | 1°27 | 23°12 | 20°37 | 9°45 | 26°15 | 27°30 | 1°31 | 17°14 | S 21 | |
| S 22 | 18 2 34 | 1°21'02 | 8♁24 | 8°38 | 21° 5 | 26°35 | 29°35 | 1°34 | 23°13 | 20°37 | 9°46 | 26° 6 | 27°27 | 1°37 | 17°12 | S 22 | |
| M23 | 18 6 31 | 2°18'23 | 21°21 | 9°25 | 21°38 | 27°19 | 29°49 | 1°41 | 23°13 | 20°38 | 9°47 | 25°57 | 27°24 | 1°44 | 17°10 | M23 | |
| T 24 | 18 10 27 | 3°15'43 | 4♁ 4 | 10°17 | 22°12 | 28° 3 | 0♁ 3 | 1°48 | 23°13 | 20°39 | 9°48 | 25°48 | 27°21 | 1°51 | 17° 8 | T 24 | |
| W25 | 18 14 24 | 4°13'02 | 16°34 | 11°13 | 22°47 | 28°47 | 0°17 | 1°55 | 23°13 | 20°39 | 9°49 | 25°41 | 27°17 | 1°57 | 17° 6 | W25 | |
| T 26 | 18 18 20 | 5°10'21 | 28°49 | 12°12 | 23°24 | 29°30 | 0°31 | 2° 3 | 23°13 | 20°40 | 9°50 | 25°35 | 27°14 | 2° 4 | 17° 3 | T 26 | |
| F 27 | 18 22 17 | 6° 7'39 | 10♁53 | 13°15 | 24° 2 | 0♁14 | 0°45 | 2°10 | 23°R13 | 20°41 | 9°51 | 25°32 | 27°11 | 2°11 | 17° 1 | F 27 | |
| S 28 | 18 26 13 | 7° 4'57 | 22°48 | 14°22 | 24°41 | 0°58 | 0°59 | 2°17 | 23°13 | 20°42 | 9°51 | 25°D31 | 27° 8 | 2°17 | 16°59 | S 28 | |
| S 29 | 18 30 10 | 8° 2'15 | 4♁38 | 15°32 | 25°21 | 1°41 | 1°12 | 2°24 | 23°13 | 20°43 | 9°52 | 25°31 | 27° 5 | 2°24 | 16°57 | S 29 | |
| M30 | 18 34 7 | 8♁59'32 | 16♁25 | 16♁46 | 26♁ 2 | 2♁25 | 1♁26 | 2♁32 | 23♁13 | 20♁44 | 9♁53 | 25♁32 | 27♁ 2 | 2♁31 | 16♁54 | M30 | |

Delta T = 19m50s

ASTRODIENST EPHEMERIS for the year 2594
geocentric

JULY 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|------|------|-------|-------|-------|--------|-------|------|-------|------|
| T 1 | 18 38 3 | 9°56'49 | 28°17 | 18°3 | 26°44 | 3°11 | 1°54 | 2°46 | 23°13 | 20°46 | 9°55 | 25°34 | 26°55 | 2°44 | 16°49 | T 1 |
| W 2 | 18 42 0 | 10°54'06 | 10°16 | 19°24 | 27°27 | 3°52 | 1°54 | 2°46 | 23°13 | 20°46 | 9°55 | 25°34 | 26°55 | 2°44 | 16°49 | W 2 |
| T 3 | 18 45 56 | 11°51'22 | 22°29 | 20°48 | 28°11 | 4°35 | 2° 8 | 2°54 | 23°13 | 20°47 | 9°55 | 25°34 | 26°52 | 2°51 | 16°47 | T 3 |
| F 4 | 18 49 53 | 12°48'39 | 5°8 | 22°15 | 28°56 | 5°18 | 2°21 | 3° 1 | 23°12 | 20°48 | 9°56 | 25°31 | 26°49 | 2°57 | 16°44 | F 4 |
| S 5 | 18 53 49 | 13°45'56 | 17°54 | 23°46 | 29°42 | 6° 1 | 2°35 | 3° 9 | 23°12 | 20°49 | 9°57 | 25°27 | 26°46 | 3° 4 | 16°41 | S 5 |
| S 6 | 18 57 46 | 14°43'12 | 1°11 | 25°20 | 0°11 | 6°45 | 2°49 | 3°16 | 23°12 | 20°50 | 9°58 | 25°22 | 26°42 | 3°11 | 16°39 | S 6 |
| M 7 | 19 1 42 | 15°40'29 | 14°57 | 26°57 | 1°15 | 7°28 | 3° 3 | 3°24 | 23°11 | 20°51 | 9°58 | 25°16 | 26°39 | 3°17 | 16°36 | M 7 |
| T 8 | 19 5 39 | 16°37'45 | 29° 5 | 28°38 | 2° 4 | 8°11 | 3°16 | 3°31 | 23°11 | 20°52 | 9°59 | 25°10 | 26°36 | 3°24 | 16°33 | T 8 |
| W 9 | 19 9 36 | 17°35'01 | 13°33 | 0°21 | 2°52 | 8°54 | 3°30 | 3°39 | 23°10 | 20°53 | 10° 0 | 25° 5 | 26°33 | 3°30 | 16°30 | W 9 |
| T 10 | 19 13 32 | 18°32'17 | 28°16 | 2° 8 | 3°42 | 9°37 | 3°44 | 3°47 | 23°10 | 20°55 | 10° 0 | 25° 1 | 26°30 | 3°37 | 16°28 | T 10 |
| F 11 | 19 17 29 | 19°29'33 | 13°4 | 3°57 | 4°32 | 10°19 | 3°57 | 3°54 | 23° 9 | 20°56 | 10° 1 | 24°59 | 26°27 | 3°44 | 16°25 | F 11 |
| S 12 | 19 21 25 | 20°26'49 | 27°52 | 5°50 | 5°23 | 11° 2 | 4°11 | 4° 2 | 23° 8 | 20°57 | 10° 1 | 24°58 | 26°23 | 3°50 | 16°22 | S 12 |
| S 13 | 19 25 22 | 21°24'04 | 12°33 | 7°45 | 6°14 | 11°45 | 4°24 | 4°10 | 23° 8 | 20°58 | 10° 2 | 24°59 | 26°20 | 3°57 | 16°19 | S 13 |
| M14 | 19 29 18 | 22°21'19 | 27° 1 | 9°43 | 7° 7 | 12°27 | 4°38 | 4°17 | 23° 7 | 21° 0 | 10° 2 | 25° 1 | 26°17 | 4° 4 | 16°16 | M14 |
| T 15 | 19 33 15 | 23°18'34 | 11°14 | 11°43 | 7°59 | 13°10 | 4°51 | 4°25 | 23° 6 | 21° 1 | 10° 3 | 25° 2 | 26°14 | 4°10 | 16°13 | T 15 |
| W16 | 19 37 12 | 24°15'48 | 25°10 | 13°45 | 8°52 | 13°52 | 5° 5 | 4°33 | 23° 5 | 21° 2 | 10° 3 | 25°R 2 | 26°11 | 4°17 | 16°10 | W16 |
| T 17 | 19 41 8 | 25°13'02 | 8°48 | 15°49 | 9°46 | 14°35 | 5°18 | 4°40 | 23° 4 | 21° 4 | 10° 4 | 25° 2 | 26° 8 | 4°24 | 16° 6 | T 17 |
| F 18 | 19 45 5 | 26°10'16 | 22° 9 | 17°54 | 10°41 | 15°17 | 5°32 | 4°48 | 23° 3 | 21° 5 | 10° 4 | 25° 0 | 26° 4 | 4°30 | 16° 3 | F 18 |
| S 19 | 19 49 1 | 27° 7'30 | 5°15 | 20° 1 | 11°35 | 16° 0 | 5°45 | 4°56 | 23° 2 | 21° 7 | 10° 5 | 24°56 | 26° 1 | 4°37 | 16° 0 | S 19 |
| S 20 | 19 52 58 | 28° 4'43 | 18° 5 | 22° 9 | 12°31 | 16°42 | 5°58 | 5° 3 | 23° 1 | 21° 8 | 10° 5 | 24°52 | 25°58 | 4°44 | 15°57 | S 20 |
| M21 | 19 56 54 | 29° 1'57 | 0°43 | 24°18 | 13°26 | 17°24 | 6°12 | 5°11 | 23° 0 | 21°10 | 10° 6 | 24°48 | 25°55 | 4°50 | 15°54 | M21 |
| T 22 | 20 0 51 | 29°59'11 | 13° 8 | 26°27 | 14°23 | 18° 6 | 6°25 | 5°19 | 22°59 | 21°11 | 10° 6 | 24°44 | 25°52 | 4°57 | 15°51 | T 22 |
| W23 | 20 4 47 | 0°56'24 | 25°21 | 28°37 | 15°19 | 18°48 | 6°38 | 5°27 | 22°58 | 21°13 | 10° 7 | 24°41 | 25°48 | 5° 4 | 15°47 | W23 |
| T 24 | 20 8 44 | 1°53'39 | 7°26 | 0°46 | 16°17 | 19°30 | 6°51 | 5°34 | 22°57 | 21°14 | 10° 7 | 24°39 | 25°45 | 5°10 | 15°44 | T 24 |
| F 25 | 20 12 41 | 2°50'53 | 19°22 | 2°55 | 17°14 | 20°12 | 7° 4 | 5°42 | 22°55 | 21°16 | 10° 7 | 24°D38 | 25°42 | 5°17 | 15°41 | F 25 |
| S 26 | 20 16 37 | 3°48'08 | 1°13 | 5° 3 | 18°12 | 20°54 | 7°18 | 5°50 | 22°54 | 21°17 | 10° 7 | 24°38 | 25°39 | 5°23 | 15°37 | S 26 |
| S 27 | 20 20 34 | 4°45'23 | 13° 0 | 7°10 | 19°11 | 21°35 | 7°31 | 5°58 | 22°53 | 21°19 | 10° 8 | 24°39 | 25°36 | 5°30 | 15°34 | S 27 |
| M28 | 20 24 30 | 5°42'39 | 24°48 | 9°17 | 20° 9 | 22°17 | 7°44 | 6° 6 | 22°52 | 21°21 | 10° 8 | 24°40 | 25°33 | 5°37 | 15°31 | M28 |
| T 29 | 20 28 27 | 6°39'55 | 6°40 | 11°22 | 21° 8 | 22°59 | 7°57 | 6°13 | 22°50 | 21°22 | 10° 8 | 24°42 | 25°29 | 5°43 | 15°27 | T 29 |
| W30 | 20 32 23 | 7°37'12 | 18°40 | 13°26 | 22° 8 | 23°40 | 8° 9 | 6°21 | 22°49 | 21°24 | 10° 9 | 24°43 | 25°26 | 5°50 | 15°24 | W30 |
| T 31 | 20 36 20 | 8°34'29 | 0°53 | 15°28 | 23°11 | 24°11 | 8°22 | 6°29 | 22°47 | 21°26 | 10° 9 | 24°44 | 25°23 | 5°57 | 15°21 | T 31 |

Delta T = 19m51s

AUGUST 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day | |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|-----|
| F 1 | 20 40 16 | 9°31'48 | 13°22 | 17°29 | 24°11 | 25°11 | 3° 8 | 8°35 | 6°37 | 22°R46 | 21°28 | 10° 9 | 24°R44 | 25°20 | 6°11 | 15°R17 | F 1 |
| S 2 | 20 44 13 | 10°29'07 | 26°13 | 19°29 | 25° 9 | 25°44 | 8°48 | 6°44 | 22°44 | 21°29 | 10° 9 | 24°L44 | 25°17 | 6°10 | 15°44 | S 2 | |
| S 3 | 20 48 9 | 11°26'28 | 9°11 | 21°26 | 26° 9 | 26°26 | 9° 1 | 6°52 | 22°43 | 21°31 | 10° 9 | 24°42 | 25°13 | 6°17 | 15°10 | S 3 | |
| M 4 | 20 52 6 | 12°23'49 | 23°10 | 23°23 | 27°11 | 27° 7 | 9°13 | 7° 0 | 22°41 | 21°33 | 10° 9 | 24°41 | 25°10 | 6°23 | 15° 7 | M 4 | |
| T 5 | 20 56 3 | 13°21'11 | 7°19 | 25°17 | 28°12 | 27°48 | 9°26 | 7° 8 | 22°39 | 21°35 | 10° 9 | 24°40 | 25° 7 | 6°30 | 15° 4 | T 5 | |
| W 6 | 20 59 59 | 14°18'34 | 21°51 | 27°10 | 29°14 | 28°29 | 9°38 | 7°15 | 22°38 | 21°37 | 10°10 | 24°38 | 25° 4 | 6°37 | 15° 0 | W 6 | |
| T 7 | 21 3 56 | 15°15'57 | 6°43 | 29° 1 | 0°16 | 29°10 | 9°51 | 7°23 | 22°36 | 21°38 | 10°10 | 24°38 | 25° 1 | 6°43 | 14°57 | T 7 | |
| F 8 | 21 7 52 | 16°13'22 | 21°46 | 0°11 | 1°18 | 29°51 | 10° 3 | 7°31 | 22°34 | 21°40 | 10°10 | 24°D37 | 24°58 | 6°50 | 14°53 | F 8 | |
| S 9 | 21 11 49 | 17°10'47 | 6°53 | 2°38 | 2°21 | 0°31 | 10°16 | 7°39 | 22°32 | 21°42 | 10°R10 | 24°37 | 24°54 | 6°57 | 14°50 | S 9 | |
| S 10 | 21 15 45 | 18° 8'13 | 21°53 | 4°25 | 3°24 | 1°12 | 10°28 | 7°46 | 22°30 | 21°44 | 10°10 | 24°38 | 24°51 | 7° 3 | 14°47 | S 10 | |
| M11 | 21 19 42 | 19° 5'39 | 6°40 | 6° 9 | 4°27 | 1°53 | 10°40 | 7°54 | 22°29 | 21°46 | 10°10 | 24°38 | 24°48 | 7°10 | 14°43 | M11 | |
| T 12 | 21 23 38 | 20° 3'06 | 21° 7 | 7°52 | 5°30 | 2°33 | 10°52 | 8° 2 | 22°27 | 21°48 | 10°10 | 24°39 | 24°45 | 7°16 | 14°40 | T 12 | |
| W13 | 21 27 35 | 21° 0'33 | 5°11 | 9°33 | 6°34 | 3°14 | 11° 4 | 8° 9 | 22°25 | 21°50 | 10° 9 | 24°39 | 24°42 | 7°23 | 14°36 | W13 | |
| T 14 | 21 31 32 | 21°58'01 | 18°53 | 11°12 | 7°38 | 3°54 | 11°16 | 8°17 | 22°23 | 21°52 | 10° 9 | 24°R39 | 24°39 | 7°30 | 14°33 | T 14 | |
| F 15 | 21 35 28 | 22°55'30 | 2°11 | 12°50 | 8°42 | 4°35 | 11°28 | 8°25 | 22°21 | 21°54 | 10° 9 | 24°39 | 24°35 | 7°36 | 14°30 | F 15 | |
| S 16 | 21 39 25 | 23°53'00 | 15° 8 | 14°26 | 9°46 | 5°15 | 11°40 | 8°32 | 22°19 | 21°56 | 10° 9 | 24°39 | 24°32 | 7°43 | 14°26 | S 16 | |
| S 17 | 21 43 21 | 24°50'30 | 27°46 | 16° 1 | 10°51 | 5°55 | 11°52 | 8°40 | 22°17 | 21°58 | 10° 9 | 24°D39 | 24°29 | 7°50 | 14°23 | S 17 | |
| M18 | 21 47 18 | 25°48'01 | 10°10 | 17°34 | 11°55 | 6°35 | 12° 4 | 8°47 | 22°15 | 22° 0 | 10° 9 | 24°39 | 24°26 | 7°56 | 14°20 | M18 | |
| T 19 | 21 51 14 | 26°45'33 | 22°21 | 19° 5 | 13° 0 | 7°15 | 12°16 | 8°55 | 22°13 | 22° 2 | 10° 9 | 24°39 | 24°23 | 8° 3 | 14°16 | T 19 | |
| W20 | 21 55 11 | 27°43'06 | 4°22 | 20°35 | 14° 5 | 7°55 | 12°27 | 9° 3 | 22°11 | 22° 4 | 10° 8 | 24°40 | 24°19 | 8°10 | 14°13 | W20 | |
| T 21 | 21 59 7 | 28°40'39 | 16°17 | 22° 3 | 15°11 | 8°35 | 12°39 | 9°10 | 22° 9 | 22° 6 | 10° 8 | 24°40 | 24°16 | 8°16 | 14°10 | T 21 | |
| F 22 | 22 3 4 | 29°38'14 | 28° 7 | 23°29 | 16°16 | 9°15 | 12°50 | 9°17 | 22° 6 | 22° 8 | 10° 8 | 24°R40 | 24°13 | 8°23 | 14° 6 | F 22 | |
| S 23 | 22 7 1 | 0°35'50 | 9°56 | 24°54 | 17°22 | 9°54 | 13° 1 | 9°25 | 22° 4 | 22°10 | 10° 8 | 24°40 | 24°10 | 8°30 | 14° 3 | S 23 | |
| S 24 | 22 10 57 | 1°33'27 | 21°44 | 26°17 | 18°28 | 10°34 | 13°13 | 9°32 | 22° 2 | 22°12 | 10° 7 | 24°39 | 24° 7 | 8°36 | 14° 0 | S 24 | |
| M25 | 22 14 54 | 2°31'05 | 3°35 | 27°38 | 19°34 | 11°14 | 13°24 | 9°40 | 22° 0 | 22°14 | 10° 7 | 24°38 | 24° 4 | 8°43 | 13°57 | M25 | |
| T 26 | 22 18 50 | 3°28'45 | 15°30 | 28°58 | 20°40 | 11°53 | 13°35 | 9°47 | 21°58 | 22°17 | 10° 7 | 24°37 | 24° 0 | 8°50 | 13°54 | T 26 | |
| W27 | 22 22 47 | 4°26'26 | 27°34 | 0°15 | 21°47 | 12°33 | 13°46 | 9°54 | 21°55 | 22°19 | 10° 6 | 24°36 | 23°57 | 8°56 | 13°51 | W27 | |
| T 28 | 22 26 43 | 5°24'09 | 9°49 | 1°31 | 22°54 | 13°12 | 13°57 | 10° 2 | 21°53 | 22°21 | 10° 6 | 24°35 | 23°54 | 9° 3 | 13°48 | T 28 | |
| F 29 | 22 30 40 | 6°21'53 | 22°19 | 2°45 | 24° 1 | 13°51 | 14° 8 | 10° 9 | 21°51 | 22°23 | 10° 6 | 24°34 | 23°51 | 9° 9 | 13°45 | F 29 | |
| S 30 | 22 34 36 | 7°19'39 | 5°11 | 3°57 | 25° 8 | 14°30 | 14°19 | 10°16 | 21°49 | 22°25 | 10° 5 | 24°D33 | 23°48 | 9°16 | 13°42 | S 30 | |
| S 31 | 22 38 33 | 8°17'26 | 18°16 | 5° 7 | 26°15 | 15° 9 | 14°29 | 10°23 | 21°46 | 22°27 | 10° 5 | 24°L34 | 23°45 | 9°23 | 13°39 | S 31 | |

Delta T = 19m51s

ASTRODIENST EPHEMERIS for the year 2594
geocentric

SEPTEMBER 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|------|-----|
| M 1 | 22 42 30 | 9♎15'16 | 1♌50 | 6♁14 | 27♌22 | 15♌48 | 14♌40 | 10♁31 | 21°R44 | 22♎29 | 10°R 4 | 24♁34 | 23♁41 | 9♁29 | 13°R36 | M 1 | |
| T 2 | 22 46 26 | 10°13'06 | 15°49 | 7°19 | 28°30 | 16°27 | 14°50 | 10°38 | 21°K42 | 22°32 | 10°R 4 | 24°35 | 23°38 | 9°36 | 13°R33 | T 2 | |
| W 3 | 22 50 23 | 11°10'59 | 0♁14 | 8°22 | 29°37 | 17° 6 | 15° 1 | 10°45 | 21°39 | 22°34 | 10° 3 | 24°36 | 23°35 | 9°43 | 13°30 | W 3 | |
| T 4 | 22 54 19 | 12° 8'53 | 15° 0 | 9°23 | 0♁45 | 17°45 | 15°11 | 10°52 | 21°37 | 22°36 | 10° 3 | 24°37 | 23°32 | 9°49 | 13°27 | T 4 | |
| F 5 | 22 58 16 | 13° 6'49 | 0♎ 3 | 10°21 | 1°53 | 18°23 | 15°21 | 10°59 | 21°35 | 22°38 | 10° 2 | 24°R37 | 23°29 | 9°56 | 13°24 | F 5 | |
| S 6 | 23 2 12 | 14° 4'46 | 15°15 | 11°16 | 3° 2 | 19° 2 | 15°31 | 11° 6 | 21°32 | 22°40 | 10° 2 | 24°37 | 23°25 | 10° 3 | 13°21 | S 6 | |
| S 7 | 23 6 9 | 15° 2'45 | 0♁26 | 12° 8 | 4°10 | 19°40 | 15°41 | 11°13 | 21°30 | 22°43 | 10° 1 | 24°35 | 23°22 | 10° 9 | 13°19 | S 7 | |
| M 8 | 23 10 5 | 16° 0'45 | 15°26 | 12°57 | 5°18 | 20°19 | 15°51 | 11°20 | 21°28 | 22°45 | 10° 1 | 24°32 | 23°19 | 10°16 | 13°16 | M 8 | |
| T 9 | 23 14 2 | 16°58'46 | 0♎ 7 | 13°43 | 6°27 | 20°57 | 16° 1 | 11°27 | 21°25 | 22°47 | 10° 0 | 24°29 | 23°16 | 10°23 | 13°14 | T 9 | |
| W10 | 23 17 59 | 17°56'49 | 14°24 | 14°25 | 7°36 | 21°35 | 16°10 | 11°33 | 21°23 | 22°49 | 9°59 | 24°26 | 23°13 | 10°29 | 13°11 | W10 | |
| T 11 | 23 21 55 | 18°54'54 | 28°13 | 15° 4 | 8°44 | 22°13 | 16°20 | 11°40 | 21°20 | 22°52 | 9°59 | 24°24 | 23°10 | 10°36 | 13° 8 | T 11 | |
| F 12 | 23 25 52 | 19°52'59 | 11♁34 | 15°38 | 9°53 | 22°51 | 16°29 | 11°47 | 21°18 | 22°54 | 9°58 | 24°23 | 23° 6 | 10°43 | 13° 6 | F 12 | |
| S 13 | 23 29 48 | 20°51'07 | 24°31 | 16° 9 | 11° 2 | 23°29 | 16°38 | 11°54 | 21°16 | 22°56 | 9°57 | 24°D23 | 23° 3 | 10°49 | 13° 4 | S 13 | |
| S 14 | 23 33 45 | 21°49'15 | 7♁ 5 | 16°34 | 12°12 | 24° 7 | 16°48 | 12° 0 | 21°13 | 22°58 | 9°57 | 24°23 | 23° 0 | 10°56 | 13° 1 | S 14 | |
| M15 | 23 37 41 | 22°47'25 | 19°22 | 16°55 | 13°21 | 24°44 | 16°57 | 12° 7 | 21°11 | 23° 0 | 9°56 | 24°25 | 22°57 | 11° 3 | 12°59 | M15 | |
| T 16 | 23 41 38 | 23°45'36 | 1♁25 | 17°11 | 14°31 | 25°22 | 17° 6 | 12°13 | 21° 8 | 23° 3 | 9°55 | 24°27 | 22°54 | 11° 9 | 12°57 | T 16 | |
| W17 | 23 45 34 | 24°43'49 | 13°19 | 17°21 | 15°40 | 25°59 | 17°14 | 12°20 | 21° 6 | 23° 5 | 9°55 | 24°28 | 22°50 | 11°16 | 12°54 | W17 | |
| T 18 | 23 49 31 | 25°42'03 | 25° 9 | 17°R26 | 16°50 | 26°37 | 17°23 | 12°26 | 21° 4 | 23° 7 | 9°54 | 24°R29 | 22°47 | 11°22 | 12°52 | T 18 | |
| F 19 | 23 53 28 | 26°40'19 | 6♁56 | 17°24 | 18° 0 | 27°14 | 17°32 | 12°32 | 21° 1 | 23° 9 | 9°53 | 24°28 | 22°44 | 11°29 | 12°50 | F 19 | |
| S 20 | 23 57 24 | 27°38'36 | 18°45 | 17°16 | 19°10 | 27°51 | 17°40 | 12°39 | 20°59 | 23°12 | 9°52 | 24°25 | 22°41 | 11°36 | 12°48 | S 20 | |
| S 21 | 0 1 21 | 28°36'55 | 0♎37 | 17° 2 | 20°20 | 28°28 | 17°48 | 12°45 | 20°56 | 23°14 | 9°51 | 24°21 | 22°38 | 11°42 | 12°46 | S 21 | |
| M22 | 0 5 17 | 29°35'16 | 12°34 | 16°41 | 21°30 | 29° 5 | 17°57 | 12°51 | 20°54 | 23°16 | 9°51 | 24°16 | 22°35 | 11°49 | 12°44 | M22 | |
| T 23 | 0 9 14 | 0♁33'39 | 24°39 | 16°13 | 22°40 | 29°42 | 18° 5 | 12°57 | 20°52 | 23°18 | 9°50 | 24°10 | 22°31 | 11°56 | 12°42 | T 23 | |
| W24 | 0 13 10 | 1°32'04 | 6♁52 | 15°39 | 23°51 | 0♁19 | 18°12 | 13° 3 | 20°49 | 23°20 | 9°49 | 24° 3 | 22°28 | 12° 2 | 12°41 | W24 | |
| T 25 | 0 17 7 | 2°30'31 | 19°16 | 14°58 | 25° 1 | 0°56 | 18°20 | 13° 9 | 20°47 | 23°23 | 9°48 | 23°57 | 22°25 | 12° 9 | 12°39 | T 25 | |
| F 26 | 0 21 3 | 3°29'00 | 1♎52 | 14°11 | 26°12 | 1°32 | 18°28 | 13°15 | 20°45 | 23°25 | 9°47 | 23°52 | 22°22 | 12°16 | 12°37 | F 26 | |
| S 27 | 0 25 0 | 4°27'31 | 14°42 | 13°18 | 27°23 | 2° 9 | 18°35 | 13°21 | 20°42 | 23°27 | 9°46 | 23°48 | 22°19 | 12°22 | 12°36 | S 27 | |
| S 28 | 0 28 56 | 5°26'04 | 27°50 | 12°21 | 28°34 | 2°45 | 18°43 | 13°27 | 20°40 | 23°29 | 9°45 | 23°46 | 22°16 | 12°29 | 12°34 | S 28 | |
| M29 | 0 32 53 | 6°24'39 | 11♌17 | 11°19 | 29°45 | 3°21 | 18°50 | 13°33 | 20°38 | 23°31 | 9°45 | 23°D46 | 22°12 | 12°36 | 12°33 | M29 | |
| T 30 | 0 36 50 | 7♁23'17 | 25♌ 4 | 10♁16 | 0♎56 | 3♁58 | 18♌57 | 13♁38 | 20°K36 | 23°K33 | 9°D44 | 23°L47 | 22°L 9 | 12°K42 | 12°R31 | T 30 | |

Delta T = 19m51s

OCTOBER 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|--------|--------|------|
| W 1 | 0 40 46 | 8♁21'57 | 9♁14 | 9°R11 | 2♎ 7 | 4♁34 | 19♌ 4 | 13♁44 | 20°R33 | 23♎36 | 9°R43 | 23♁48 | 22°L 6 | 12°K49 | 12°R30 | W 1 |
| T 2 | 0 44 43 | 9°20'38 | 23°45 | 8♁ 7 | 3°19 | 5°10 | 19°11 | 13°49 | 20°K31 | 23°38 | 9°D42 | 23°R49 | 22° 3 | 12°56 | 12°R29 | T 2 |
| F 3 | 0 48 39 | 10°19'22 | 8♎34 | 7° 4 | 4°30 | 5°45 | 19°17 | 13°55 | 20°29 | 23°40 | 9°41 | 23°48 | 22° 0 | 13° 2 | 12°27 | F 3 |
| S 4 | 0 52 36 | 11°18'09 | 23°35 | 6° 6 | 5°41 | 6°21 | 19°24 | 14° 0 | 20°27 | 23°42 | 9°40 | 23°45 | 21°56 | 13° 9 | 12°26 | S 4 |
| S 5 | 0 56 32 | 12°16'57 | 8♁40 | 5°12 | 6°53 | 6°57 | 19°30 | 14° 5 | 20°25 | 23°44 | 9°39 | 23°40 | 21°53 | 13°16 | 12°25 | S 5 |
| M 6 | 1 0 29 | 13°15'47 | 23°40 | 4°25 | 8° 5 | 7°32 | 19°36 | 14°11 | 20°22 | 23°46 | 9°38 | 23°33 | 21°50 | 13°22 | 12°24 | M 6 |
| T 7 | 1 4 25 | 14°14'39 | 8♎25 | 3°46 | 9°17 | 8° 7 | 19°42 | 14°16 | 20°20 | 23°49 | 9°37 | 23°25 | 21°47 | 13°29 | 12°23 | T 7 |
| W 8 | 1 8 22 | 15°13'33 | 22°48 | 3°16 | 10°28 | 8°43 | 19°48 | 14°21 | 20°18 | 23°51 | 9°36 | 23°17 | 21°44 | 13°36 | 12°22 | W 8 |
| T 9 | 1 12 19 | 16°12'28 | 6♁44 | 2°56 | 11°40 | 9°18 | 19°54 | 14°26 | 20°16 | 23°53 | 9°35 | 23°10 | 21°41 | 13°42 | 12°21 | T 9 |
| F 10 | 1 16 15 | 17°11'26 | 20°12 | 2°D45 | 12°52 | 9°53 | 19°59 | 14°31 | 20°14 | 23°55 | 9°34 | 23° 5 | 21°37 | 13°49 | 12°21 | F 10 |
| S 11 | 1 20 12 | 18°10'25 | 3♁12 | 2°45 | 14° 5 | 10°27 | 20° 5 | 14°36 | 20°12 | 23°57 | 9°33 | 23° 1 | 21°34 | 13°56 | 12°20 | S 11 |
| S 12 | 1 24 8 | 19° 9'26 | 15°47 | 2°56 | 15°17 | 11° 2 | 20°10 | 14°40 | 20°10 | 23°59 | 9°32 | 23°D 0 | 21°31 | 14° 2 | 12°19 | S 12 |
| M13 | 1 28 5 | 20° 8'29 | 28° 3 | 3°16 | 16°29 | 11°37 | 20°15 | 14°45 | 20° 8 | 24° 1 | 9°31 | 23° 0 | 21°28 | 14° 9 | 12°19 | M13 |
| T 14 | 1 32 1 | 21° 7'33 | 10♁ 4 | 3°47 | 17°41 | 12°11 | 20°20 | 14°50 | 20° 6 | 24° 3 | 9°30 | 23° 1 | 21°25 | 14°15 | 12°18 | T 14 |
| W15 | 1 35 58 | 22° 6'39 | 21°56 | 4°26 | 18°54 | 12°45 | 20°24 | 14°54 | 20° 4 | 24° 5 | 9°28 | 23°R 2 | 21°22 | 14°22 | 12°18 | W15 |
| T 16 | 1 39 54 | 23° 5'47 | 3♁44 | 5°15 | 20° 6 | 13°20 | 20°29 | 14°59 | 20° 2 | 24° 7 | 9°27 | 23° 1 | 21°18 | 14°29 | 12°18 | T 16 |
| F 17 | 1 43 51 | 24° 4'57 | 15°31 | 6°11 | 21°19 | 13°54 | 20°33 | 15° 3 | 20° 0 | 24° 9 | 9°26 | 22°58 | 21°15 | 14°35 | 12°17 | F 17 |
| S 18 | 1 47 48 | 25° 4'08 | 27°23 | 7°14 | 22°32 | 14°27 | 20°37 | 15° 7 | 19°58 | 24°11 | 9°25 | 22°53 | 21°12 | 14°42 | 12°17 | S 18 |
| S 19 | 1 51 44 | 26° 3'21 | 9°V21 | 8°24 | 23°44 | 15° 1 | 20°41 | 15°11 | 19°57 | 24°13 | 9°24 | 22°45 | 21° 9 | 14°49 | 12°17 | S 19 |
| M20 | 1 55 41 | 27° 2'37 | 21°29 | 9°39 | 24°57 | 15°35 | 20°45 | 15°15 | 19°55 | 24°15 | 9°23 | 22°35 | 21° 6 | 14°55 | 12°D17 | M20 |
| T 21 | 1 59 37 | 28° 1'54 | 3♁46 | 11° 0 | 26°10 | 16° 8 | 20°48 | 15°19 | 19°53 | 24°17 | 9°22 | 22°24 | 21° 2 | 15° 2 | 12°17 | T 21 |
| W22 | 2 3 34 | 29° 1'13 | 16°15 | 12°24 | 27°23 | 16°42 | 20°52 | 15°23 | 19°51 | 24°19 | 9°21 | 22°11 | 20°59 | 15° 9 | 12°17 | W22 |
| T 23 | 2 7 30 | 0♎ 0'35 | 28°54 | 13°53 | 28°36 | 17°15 | 20°55 | 15°27 | 19°50 | 24°21 | 9°20 | 22° 0 | 20°56 | 15°15 | 12°17 | T 23 |
| F 24 | 2 11 27 | 0°59'58 | 11♎45 | 15°24 | 29°49 | 17°48 | 20°58 | 15°31 | 19°48 | 24°23 | 9°19 | 21°50 | 20°53 | 15°22 | 12°18 | F 24 |
| S 25 | 2 15 23 | 1°59'24 | 24°48 | 16°58 | 1♁ 3 | 18°21 | 21° 1 | 15°34 | 19°47 | 24°24 | 9°17 | 21°42 | 20°50 | 15°29 | 12°18 | S 25 |
| S 26 | 2 19 20 | 2°58'52 | 8♁ 3 | 18°34 | 2°16 | 18°53 | 21° 4 | 15°38 | 19°45 | 24°26 | 9°16 | 21°37 | 20°47 | 15°35 | 12°18 | S 26 |
| M27 | 2 23 16 | 3°58'23 | 21°31 | 20°11 | 3°29 | 19°26 | 21° 6 | 15°41 | 19°43 | 24°28 | 9°15 | 21°34 | 20°43 | 15°42 | 12°19 | M27 |
| T 28 | 2 27 13 | 4°57'55 | 5♁13 | 21°50 | 4°43 | 19°58 | 21° 8 | 15°45 | 19°42 | 24°30 | 9°14 | 21°D34 | 20°40 | 15°49 | 12°19 | T 28 |
| W29 | 2 31 10 | 5°57'30 | 19°11 | 23°30 | 5°56 | 20°30 | 21°10 | 15°48 | 19°41 | 24°32 | 9°13 | 21°R34 | 20°37 | 15°55 | 12°20 | W29 |
| T 30 | 2 35 6 | 6°57'07 | 3♎25 | 25°11 | 7°10 | 21° 2 | 21°12 | 15°51 | 19°39 | 24°33 | 9°12 | 21°34 | 20°34 | 16° 2 | 12°21 | T 30 |
| F 31 | 2 39 3 | 7♎56'47 | 17♎53 | 26♁52 | 8♁23 | 21♁34 | 21♌14 | 15♁54 | 19°K38 | 24°K35 | 9°D11 | 21♁32 | 20♁31 | 16°K 9 | 12°R22 | F 31 |

Delta T = 19m52s

ASTRODIENST EPHEMERIS for the year 2594
geocentric

NOVEMBER 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|--------|--------|--------|-------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 2 42 59 | 8♁56'28 | 2♁32 | 28♁33 | 9♁37 | 22♁ 6 | 21♁16 | 15♁57 | 19°R36 | 24♁37 | 9°R10 | 21°R27 | 20♁27 | 16♁15 | 12♁22 | S 1 | |
| S 2 | 2 46 56 | 9°56'12 | 17°17 | 0♁14 | 10°50 | 22°38 | 21°17 | 16° 0 | 19♁35 | 24°39 | 9♁ 8 | 21♁19 | 20°24 | 16°22 | 12°23 | S 2 | |
| M 3 | 2 50 52 | 10°55'58 | 2♁ 1 | 1°56 | 12° 4 | 23° 9 | 21°18 | 16° 3 | 19°34 | 24°40 | 9° 7 | 21° 9 | 20°21 | 16°29 | 12°24 | M 3 | |
| T 4 | 2 54 49 | 11°55'46 | 16°34 | 3°37 | 13°18 | 23°40 | 21°19 | 16° 5 | 19°33 | 24°42 | 9° 6 | 20°57 | 20°18 | 16°35 | 12°25 | T 4 | |
| W 5 | 2 58 45 | 12°55'36 | 0♁51 | 5°19 | 14°32 | 24°11 | 21°20 | 16° 8 | 19°32 | 24°43 | 9° 5 | 20°45 | 20°15 | 16°42 | 12°26 | W 5 | |
| T 6 | 3 2 42 | 13°55'27 | 14°45 | 7° 0 | 15°46 | 24°42 | 21°20 | 16°10 | 19°31 | 24°45 | 9° 4 | 20°34 | 20°12 | 16°49 | 12°28 | T 6 | |
| F 7 | 3 6 39 | 14°55'21 | 28°13 | 8°40 | 17° 0 | 25°12 | 21°20 | 16°13 | 19°29 | 24°47 | 9° 3 | 20°25 | 20° 8 | 16°55 | 12°29 | F 7 | |
| S 8 | 3 10 35 | 15°55'16 | 11♁16 | 10°21 | 18°14 | 25°43 | 21°R21 | 16°15 | 19°28 | 24°48 | 9° 2 | 20°19 | 20° 5 | 17° 2 | 12°30 | S 8 | |
| S 9 | 3 14 32 | 16°55'13 | 23°54 | 12° 1 | 19°28 | 26°13 | 21°20 | 16°17 | 19°28 | 24°50 | 9° 1 | 20°15 | 20° 2 | 17° 9 | 12°32 | S 9 | |
| M10 | 3 18 28 | 17°55'11 | 6♁11 | 13°40 | 20°42 | 26°43 | 21°20 | 16°19 | 19°27 | 24°51 | 8°59 | 20°13 | 19°59 | 17°15 | 12°33 | M10 | |
| T 11 | 3 22 25 | 18°55'11 | 18°14 | 15°20 | 21°56 | 27°13 | 21°20 | 16°21 | 19°26 | 24°53 | 8°58 | 20°13 | 19°56 | 17°22 | 12°35 | T 11 | |
| W12 | 3 26 21 | 19°55'12 | 0♁ 6 | 16°58 | 23°10 | 27°42 | 21°19 | 16°23 | 19°25 | 24°54 | 8°57 | 20°13 | 19°53 | 17°29 | 12°36 | W12 | |
| T 13 | 3 30 18 | 20°55'15 | 11°54 | 18°37 | 24°24 | 28°12 | 21°18 | 16°24 | 19°24 | 24°56 | 8°56 | 20°12 | 19°49 | 17°35 | 12°38 | T 13 | |
| F 14 | 3 34 14 | 21°55'20 | 23°43 | 20°15 | 25°39 | 28°41 | 21°17 | 16°26 | 19°23 | 24°57 | 8°55 | 20° 9 | 19°46 | 17°42 | 12°40 | F 14 | |
| S 15 | 3 38 11 | 22°55'26 | 5°Y'38 | 21°52 | 26°53 | 29°10 | 21°16 | 16°27 | 19°23 | 24°58 | 8°54 | 20° 3 | 19°43 | 17°49 | 12°42 | S 15 | |
| S 16 | 3 42 8 | 23°55'34 | 17°43 | 23°29 | 28° 7 | 29°38 | 21°14 | 16°29 | 19°22 | 25° 0 | 8°53 | 19°54 | 19°40 | 17°55 | 12°43 | S 16 | |
| M17 | 3 46 4 | 24°55'43 | 29°59 | 25° 6 | 29°22 | 0♁ 7 | 21°13 | 16°30 | 19°21 | 25° 1 | 8°52 | 19°43 | 19°37 | 18° 2 | 12°45 | M17 | |
| T 18 | 3 50 1 | 25°55'54 | 12♁31 | 26°43 | 0♁36 | 0°35 | 21°11 | 16°31 | 19°21 | 25° 2 | 8°51 | 19°30 | 19°33 | 18° 9 | 12°47 | T 18 | |
| W19 | 3 53 57 | 26°56'07 | 25°16 | 28°19 | 1°51 | 1° 3 | 21° 9 | 16°32 | 19°20 | 25° 4 | 8°50 | 19°16 | 19°30 | 18°15 | 12°49 | W19 | |
| T 20 | 3 57 54 | 27°56'22 | 8♁16 | 29°54 | 3° 5 | 1°31 | 21° 6 | 16°33 | 19°20 | 25° 5 | 8°48 | 19° 3 | 19°27 | 18°22 | 12°52 | T 20 | |
| F 21 | 4 1 50 | 28°56'38 | 21°29 | 1♁30 | 4°20 | 1°58 | 21° 4 | 16°34 | 19°20 | 25° 6 | 8°47 | 18°52 | 19°24 | 18°29 | 12°54 | F 21 | |
| S 22 | 4 5 47 | 29°56'56 | 4♁53 | 3° 5 | 5°34 | 2°25 | 21° 1 | 16°34 | 19°19 | 25° 7 | 8°46 | 18°43 | 19°21 | 18°35 | 12°56 | S 22 | |
| S 23 | 4 9 43 | 0♁57'16 | 18°27 | 4°39 | 6°49 | 2°52 | 20°58 | 16°35 | 19°19 | 25° 8 | 8°45 | 18°37 | 19°18 | 18°42 | 12°58 | S 23 | |
| M24 | 4 13 40 | 1°57'38 | 2♁ 9 | 6°14 | 8° 4 | 3°19 | 20°55 | 16°35 | 19°19 | 25°10 | 8°44 | 18°34 | 19°14 | 18°49 | 13° 1 | M24 | |
| T 25 | 4 17 37 | 2°58'01 | 15°58 | 7°48 | 9°18 | 3°46 | 20°52 | 16°36 | 19°19 | 25°11 | 8°43 | 18°D33 | 19°11 | 18°55 | 13° 3 | T 25 | |
| W26 | 4 21 33 | 3°58'27 | 29°56 | 9°22 | 10°33 | 4°12 | 20°48 | 16°36 | 19°18 | 25°12 | 8°42 | 18°R33 | 19° 8 | 19° 2 | 13° 6 | W26 | |
| T 27 | 4 25 30 | 4°58'54 | 14♁ 0 | 10°55 | 11°48 | 4°38 | 20°45 | 16°36 | 19°18 | 25°13 | 8°41 | 18°33 | 19° 5 | 19° 9 | 13° 8 | T 27 | |
| F 28 | 4 29 26 | 5°59'23 | 28°12 | 12°29 | 13° 3 | 5° 3 | 20°41 | 16°R36 | 19°D18 | 25°14 | 8°40 | 18°31 | 19° 2 | 19°15 | 13°11 | F 28 | |
| S 29 | 4 33 23 | 6°59'54 | 12♁28 | 14° 2 | 14°17 | 5°29 | 20°37 | 16°36 | 19°18 | 25°15 | 8°39 | 18°27 | 18°59 | 19°22 | 13°14 | S 29 | |
| S 30 | 4 37 19 | 8♁ 0'27 | 26♁47 | 15♁35 | 15♁32 | 5♁54 | 20♁33 | 16♁36 | 19♁18 | 25♁16 | 8♁38 | 18♁20 | 18♁55 | 19♁28 | 13♁17 | S 30 | |

Delta T = 19m52s

DECEMBER 2594

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|-------|-------|-------|--------|--------|-------|--------|-------|--------|-------|-------|-------|------|-----|
| M 1 | 4 41 16 | 9♁ 1'01 | 11♁ 3 | 17♁ 8 | 16♁47 | 6♁18 | 20°R28 | 16°R35 | 19♁18 | 25♁17 | 8°R37 | 18°R10 | 18♁52 | 19♁35 | 13♁19 | M 1 | |
| T 2 | 4 45 12 | 10° 1'37 | 25°13 | 18°41 | 18° 2 | 6°43 | 20♁24 | 16°D35 | 19°19 | 25°17 | 8♁36 | 17♁59 | 18°49 | 19°42 | 13°22 | T 2 | |
| W 3 | 4 49 9 | 11° 2'15 | 9♁ 9 | 20°13 | 19°17 | 7° 7 | 20°19 | 16°34 | 19°19 | 25°18 | 8°35 | 17°48 | 18°46 | 19°48 | 13°25 | W 3 | |
| T 4 | 4 53 6 | 12° 2'54 | 22°48 | 21°45 | 20°32 | 7°31 | 20°14 | 16°34 | 19°19 | 25°19 | 8°34 | 17°37 | 18°43 | 19°55 | 13°28 | T 4 | |
| F 5 | 4 57 2 | 13° 3'34 | 6♁ 7 | 23°18 | 21°47 | 7°54 | 20° 9 | 16°33 | 19°19 | 25°20 | 8°34 | 17°28 | 18°39 | 20° 2 | 13°31 | F 5 | |
| S 6 | 5 0 59 | 14° 4'16 | 19° 4 | 24°50 | 23° 2 | 8°17 | 20° 4 | 16°32 | 19°20 | 25°21 | 8°33 | 17°22 | 18°36 | 20° 8 | 13°34 | S 6 | |
| S 7 | 5 4 55 | 15° 4'59 | 1♁41 | 26°21 | 24°17 | 8°40 | 19°59 | 16°31 | 19°20 | 25°21 | 8°32 | 17°18 | 18°33 | 20°15 | 13°38 | S 7 | |
| M 8 | 5 8 52 | 16° 5'43 | 13°59 | 27°53 | 25°32 | 9° 2 | 19°53 | 16°30 | 19°21 | 25°22 | 8°31 | 17°D17 | 18°30 | 20°22 | 13°41 | M 8 | |
| T 9 | 5 12 48 | 17° 6'27 | 26° 2 | 29°24 | 26°47 | 9°24 | 19°47 | 16°29 | 19°21 | 25°23 | 8°30 | 17°17 | 18°27 | 20°28 | 13°44 | T 9 | |
| W10 | 5 16 45 | 18° 7'13 | 7♁55 | 0♁56 | 28° 2 | 9°46 | 19°41 | 16°27 | 19°22 | 25°23 | 8°29 | 17°18 | 18°24 | 20°35 | 13°47 | W10 | |
| T 11 | 5 20 41 | 19° 8'00 | 19°45 | 2°27 | 29°17 | 10° 7 | 19°35 | 16°26 | 19°22 | 25°24 | 8°28 | 17°R19 | 18°20 | 20°42 | 13°51 | T 11 | |
| F 12 | 5 24 38 | 20° 8'47 | 1°Y'34 | 3°57 | 0♁32 | 10°28 | 19°29 | 16°24 | 19°23 | 25°24 | 8°28 | 17°18 | 18°17 | 20°48 | 13°54 | F 12 | |
| S 13 | 5 28 35 | 21° 9'36 | 13°31 | 5°28 | 1°47 | 10°49 | 19°23 | 16°23 | 19°24 | 25°25 | 8°27 | 17°15 | 18°14 | 20°55 | 13°58 | S 13 | |
| S 14 | 5 32 31 | 22°10'25 | 25°38 | 6°58 | 3° 2 | 11° 9 | 19°17 | 16°21 | 19°25 | 25°25 | 8°26 | 17°10 | 18°11 | 21° 2 | 14° 1 | S 14 | |
| M15 | 5 36 28 | 23°11'15 | 8♁ 0 | 8°28 | 4°17 | 11°28 | 19°10 | 16°19 | 19°25 | 25°26 | 8°25 | 17° 2 | 18° 8 | 21° 8 | 14° 5 | M15 | |
| T 16 | 5 40 24 | 24°12'06 | 20°40 | 9°57 | 5°33 | 11°48 | 19° 3 | 16°17 | 19°26 | 25°26 | 8°24 | 16°54 | 18° 5 | 21°15 | 14° 8 | T 16 | |
| W17 | 5 44 21 | 25°12'58 | 3♁39 | 11°26 | 6°48 | 12° 7 | 18°56 | 16°15 | 19°27 | 25°27 | 8°24 | 16°44 | 18° 1 | 21°22 | 14°12 | W17 | |
| T 18 | 5 48 17 | 26°13'51 | 16°56 | 12°54 | 8° 3 | 12°25 | 18°50 | 16°13 | 19°28 | 25°27 | 8°23 | 16°35 | 17°58 | 21°29 | 14°16 | T 18 | |
| F 19 | 5 52 14 | 27°14'45 | 0♁32 | 14°21 | 9°18 | 12°43 | 18°43 | 16°10 | 19°29 | 25°27 | 8°22 | 16°27 | 17°55 | 21°35 | 14°20 | F 19 | |
| S 20 | 5 56 11 | 28°15'40 | 14°21 | 15°48 | 10°33 | 13° 1 | 18°35 | 16° 8 | 19°30 | 25°27 | 8°22 | 16°20 | 17°52 | 21°42 | 14°23 | S 20 | |
| S 21 | 6 0 7 | 29°16'35 | 28°22 | 17°13 | 11°49 | 13°18 | 18°28 | 16° 5 | 19°31 | 25°28 | 8°21 | 16°17 | 17°49 | 21°49 | 14°27 | S 21 | |
| M22 | 6 4 4 | 0♁17'32 | 12♁29 | 18°38 | 13° 4 | 13°34 | 18°21 | 16° 3 | 19°33 | 25°28 | 8°20 | 16°D15 | 17°45 | 21°55 | 14°31 | M22 | |
| T 23 | 6 8 0 | 1°18'30 | 26°40 | 20° 0 | 14°19 | 13°50 | 18°13 | 16° 0 | 19°34 | 25°28 | 8°20 | 16°16 | 17°42 | 22° 2 | 14°35 | T 23 | |
| W24 | 6 11 57 | 2°19'28 | 10♁51 | 21°21 | 15°34 | 14° 6 | 18° 6 | 15°57 | 19°35 | 25°28 | 8°19 | 16°17 | 17°39 | 22° 9 | 14°39 | W24 | |
| T 25 | 6 15 53 | 3°20'28 | 25° 1 | 22°40 | 16°50 | 14°21 | 17°58 | 15°55 | 19°36 | 25°28 | 8°19 | 16°18 | 17°36 | 22°15 | 14°43 | T 25 | |
| F 26 | 6 19 50 | 4°21'28 | 9♁ 8 | 23°57 | 18° 5 | 14°36 | 17°50 | 15°52 | 19°38 | 25°28 | 8°18 | 16°R18 | 17°33 | 22°22 | 14°47 | F 26 | |
| S 27 | 6 23 46 | 5°22'30 | 23°11 | 25°11 | 19°20 | 14°50 | 17°43 | 15°49 | 19°39 | 25°R28 | 8°17 | 16°17 | 17°30 | 22°29 | 14°51 | S 27 | |
| S 28 | 6 27 43 | 6°23'33 | 7♁ 9 | 26°22 | 20°36 | 15° 4 | 17°35 | 15°45 | 19°41 | 25°28 | 8°17 | 16°13 | 17°26 | 22°35 | 14°56 | S 28 | |
| M29 | 6 31 40 | 7°24'36 | 20° 9 | 27°29 | 21°51 | 15°17 | 17°27 | 15°42 | 19°42 | 25°28 | 8°16 | 16° 8 | 17°23 | 22°42 | 15° 0 | M29 | |
| T 30 | 6 35 36 | 8°25'41 | 4♁40 | 28°32 | 23° 6 | 15°29 | 17°19 | 15°39 | 19°44 | 25°28 | 8°16 | 16° 2 | 17°20 | 22°49 | 15° 4 | T 30 | |
| W31 | 6 39 33 | 9♁26'46 | 18♁ 9 | 29♁30 | 24♁22 | 15♁41 | 17♁11 | 15♁35 | 19♁45 | 25♁28 | 8♁15 | 15♁56 | 17♁17 | 22♁55 | 15♁ 8 | W31 | |

Delta T = 19m52s

ASTRODIENST EPHEMERIS for the year 2595
geocentric

JANUARY 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|--------|--------|--------|-------|--------|-------|--------|-------|-------|-------|------|-----|
| T 1 | 6 43 29 | 10♁27'52 | 1♁24 | 0♁22 | 25♁37 | 15♁52 | 17°R 3 | 15°R32 | 19♁47 | 25°R28 | 8°R15 | 15°R49 | 17♁14 | 23♁2 | 15♁13 | T 1 | |
| F 2 | 6 47 26 | 11°28'58 | 14°23 | 1° 7 | 26°52 | 16° 3 | 16♁55 | 15♁28 | 19°49 | 25♁28 | 8♁14 | 15♁45 | 17°11 | 23° 9 | 15°17 | F 2 | |
| S 3 | 6 51 22 | 12°30'04 | 27° 7 | 1°46 | 28° 8 | 16°13 | 16°47 | 15°25 | 19°50 | 25°28 | 8°14 | 15°41 | 17° 7 | 23°15 | 15°21 | S 3 | |
| S 4 | 6 55 19 | 13°31'11 | 9♁35 | 2°16 | 29°23 | 16°22 | 16°39 | 15°21 | 19°52 | 25°27 | 8°14 | 15°40 | 17° 4 | 23°22 | 15°26 | S 4 | |
| M 5 | 6 59 15 | 14°32'19 | 21°48 | 2°37 | 0♁38 | 16°31 | 16°31 | 15°17 | 19°54 | 25°27 | 8°13 | 15°D40 | 17° 1 | 23°29 | 15°30 | M 5 | |
| T 6 | 7 3 12 | 15°33'26 | 3♁50 | 2°R47 | 1°54 | 16°40 | 16°22 | 15°13 | 19°56 | 25°27 | 8°13 | 15°41 | 16°58 | 23°35 | 15°34 | T 6 | |
| W 7 | 7 7 9 | 16°34'33 | 15°44 | 2°47 | 3° 9 | 16°47 | 16°14 | 15° 9 | 19°58 | 25°26 | 8°13 | 15°43 | 16°55 | 23°42 | 15°39 | W 7 | |
| T 8 | 7 11 5 | 17°35'40 | 27°33 | 2°36 | 4°25 | 16°54 | 16° 6 | 15° 5 | 20° 0 | 25°26 | 8°12 | 15°44 | 16°51 | 23°49 | 15°43 | T 8 | |
| F 9 | 7 15 2 | 18°36'48 | 9♁22 | 2°13 | 5°40 | 17° 0 | 15°58 | 15° 1 | 20° 2 | 25°26 | 8°12 | 15°46 | 16°48 | 23°55 | 15°48 | F 9 | |
| S 10 | 7 18 58 | 19°37'55 | 21°18 | 1°38 | 6°55 | 17° 6 | 15°50 | 14°57 | 20° 4 | 25°25 | 8°12 | 15°R46 | 16°45 | 24° 2 | 15°53 | S 10 | |
| S 11 | 7 22 55 | 20°39'02 | 3♁24 | 0°51 | 8°11 | 17°11 | 15°42 | 14°53 | 20° 6 | 25°25 | 8°12 | 15°45 | 16°42 | 24° 9 | 15°57 | S 11 | |
| M12 | 7 26 51 | 21°40'08 | 15°45 | 29♁54 | 9°26 | 17°15 | 15°34 | 14°48 | 20° 8 | 25°24 | 8°11 | 15°43 | 16°39 | 24°15 | 16° 2 | M12 | |
| T 13 | 7 30 48 | 22°41'15 | 28°25 | 28°48 | 10°42 | 17°18 | 15°26 | 14°44 | 20°10 | 25°24 | 8°11 | 15°41 | 16°36 | 24°22 | 16° 6 | T 13 | |
| W14 | 7 34 44 | 23°42'22 | 11♁28 | 27°34 | 11°57 | 17°21 | 15°18 | 14°40 | 20°13 | 25°23 | 8°11 | 15°37 | 16°32 | 24°29 | 16°11 | W14 | |
| T 15 | 7 38 41 | 24°43'28 | 24°54 | 26°16 | 13°12 | 17°23 | 15°10 | 14°35 | 20°15 | 25°23 | 8°11 | 15°34 | 16°29 | 24°35 | 16°16 | T 15 | |
| F 16 | 7 42 38 | 25°44'34 | 8♁43 | 24°55 | 14°28 | 17°24 | 15° 2 | 14°31 | 20°17 | 25°22 | 8°11 | 15°31 | 16°26 | 24°42 | 16°20 | F 16 | |
| S 17 | 7 46 34 | 26°45'40 | 22°53 | 23°35 | 15°43 | 17°R25 | 14°54 | 14°26 | 20°19 | 25°21 | 8°11 | 15°29 | 16°23 | 24°49 | 16°25 | S 17 | |
| S 18 | 7 50 31 | 27°46'46 | 7♁18 | 22°17 | 16°58 | 17°24 | 14°46 | 14°22 | 20°22 | 25°21 | 8°10 | 15°28 | 16°20 | 24°55 | 16°30 | S 18 | |
| M19 | 7 54 27 | 28°47'51 | 21°54 | 21° 5 | 18°14 | 17°23 | 14°39 | 14°17 | 20°24 | 25°20 | 8°10 | 15°D28 | 16°17 | 25° 2 | 16°35 | M19 | |
| T 20 | 7 58 24 | 29°48'57 | 6♁33 | 19°59 | 19°29 | 17°22 | 14°31 | 14°12 | 20°27 | 25°19 | 8°10 | 15°29 | 16°13 | 25° 9 | 16°39 | T 20 | |
| W21 | 8 2 20 | 0♁50'02 | 21°11 | 19° 1 | 20°45 | 17°19 | 14°24 | 14° 8 | 20°29 | 25°18 | 8°10 | 15°30 | 16°10 | 25°15 | 16°44 | W21 | |
| T 22 | 8 6 17 | 1°51'07 | 5♁40 | 18°13 | 22° 0 | 17°16 | 14°16 | 14° 3 | 20°32 | 25°17 | 8°D10 | 15°31 | 16° 7 | 25°22 | 16°49 | T 22 | |
| F 23 | 8 10 13 | 2°52'13 | 19°58 | 17°35 | 23°15 | 17°12 | 14° 9 | 13°58 | 20°34 | 25°17 | 8°10 | 15°32 | 16° 4 | 25°29 | 16°54 | F 23 | |
| S 24 | 8 14 10 | 3°53'18 | 4♁ 3 | 17° 6 | 24°31 | 17° 7 | 14° 2 | 13°53 | 20°37 | 25°16 | 8°10 | 15°R32 | 16° 1 | 25°35 | 16°59 | S 24 | |
| S 25 | 8 18 7 | 4°54'23 | 17°52 | 16°46 | 25°46 | 17° 1 | 13°54 | 13°49 | 20°39 | 25°15 | 8°10 | 15°32 | 15°57 | 25°42 | 17° 4 | S 25 | |
| M26 | 8 22 3 | 5°55'28 | 1♁25 | 16°36 | 27° 2 | 16°54 | 13°47 | 13°44 | 20°42 | 25°14 | 8°11 | 15°31 | 15°54 | 25°49 | 17° 8 | M26 | |
| T 27 | 8 26 0 | 6°56'33 | 14°44 | 16°D35 | 28°17 | 16°47 | 13°40 | 13°39 | 20°45 | 25°13 | 8°11 | 15°30 | 15°51 | 25°55 | 17°13 | T 27 | |
| W28 | 8 29 56 | 7°57'38 | 27°48 | 16°42 | 29°32 | 16°39 | 13°34 | 13°34 | 20°47 | 25°12 | 8°11 | 15°29 | 15°48 | 26° 2 | 17°18 | W28 | |
| T 29 | 8 33 53 | 8°58'42 | 10♁39 | 16°56 | 0♁48 | 16°30 | 13°27 | 13°29 | 20°50 | 25°11 | 8°11 | 15°28 | 15°45 | 26° 9 | 17°23 | T 29 | |
| F 30 | 8 37 49 | 9°59'46 | 23°16 | 17°18 | 2° 3 | 16°20 | 13°20 | 13°24 | 20°53 | 25°10 | 8°11 | 15°27 | 15°42 | 26°15 | 17°28 | F 30 | |
| S 31 | 8 41 46 | 11♁ 0'49 | 5♁42 | 17♁46 | 3♁19 | 16♁ 9 | 13♁14 | 13♁19 | 20♁56 | 25♁ 9 | 8♁11 | 15♁27 | 15♁38 | 26♁22 | 17♁33 | S 31 | |

Delta T = 19m53s

FEBRUARY 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|--------|--------|--------|-------|--------|------|--------|-------|-------|-------|------|-----|
| S 1 | 8 45 42 | 12♁1'52 | 17♁56 | 18♁19 | 4♁34 | 15°R58 | 13°R 8 | 13°R14 | 20♁59 | 25°R 8 | 8♁12 | 15°D27 | 15♁35 | 26♁29 | 17♁38 | S 1 | |
| M 2 | 8 49 39 | 13° 2'54 | 0♁ 1 | 18°58 | 5°49 | 15♁45 | 13♁ 1 | 13♁ 9 | 21° 1 | 25° 7 | 8°12 | 15°D27 | 15°32 | 26°36 | 17°43 | M 2 | |
| T 3 | 8 53 36 | 14° 3'55 | 11°58 | 19°41 | 7° 5 | 15°32 | 12°55 | 13° 4 | 21° 4 | 25° 5 | 8°12 | 15°27 | 15°29 | 26°42 | 17°48 | T 3 | |
| W 4 | 8 57 32 | 15° 4'55 | 23°50 | 20°29 | 8°20 | 15°19 | 12°50 | 13° 0 | 21° 7 | 25° 4 | 8°12 | 15°R27 | 15°26 | 26°49 | 17°52 | W 4 | |
| T 5 | 9 1 29 | 16° 5'54 | 5♁39 | 21°20 | 9°36 | 15° 4 | 12°44 | 12°55 | 21°10 | 25° 3 | 8°13 | 15°27 | 15°23 | 26°56 | 17°57 | T 5 | |
| F 6 | 9 5 25 | 17° 6'53 | 17°29 | 22°15 | 10°51 | 14°49 | 12°38 | 12°50 | 21°13 | 25° 2 | 8°13 | 15°27 | 15°19 | 27° 2 | 18° 2 | F 6 | |
| S 7 | 9 9 22 | 18° 7'50 | 29°23 | 23°14 | 12° 6 | 14°33 | 12°33 | 12°45 | 21°16 | 25° 1 | 8°13 | 15°27 | 15°16 | 27° 9 | 18° 7 | S 7 | |
| S 8 | 9 13 18 | 19° 8'46 | 11♁27 | 24°15 | 13°22 | 14°16 | 12°28 | 12°40 | 21°19 | 24°59 | 8°14 | 15°27 | 15°13 | 27°16 | 18°12 | S 8 | |
| M 9 | 9 17 15 | 20° 9'41 | 23°44 | 25°19 | 14°37 | 13°59 | 12°23 | 12°35 | 21°22 | 24°58 | 8°14 | 15°D27 | 15°10 | 27°22 | 18°17 | M 9 | |
| T 10 | 9 21 11 | 21°10'34 | 6♁19 | 26°25 | 15°52 | 13°41 | 12°18 | 12°30 | 21°25 | 24°57 | 8°14 | 15°27 | 15° 7 | 27°29 | 18°22 | T 10 | |
| W11 | 9 25 8 | 22°11'27 | 19°16 | 27°33 | 17° 8 | 13°22 | 12°13 | 12°25 | 21°28 | 24°55 | 8°15 | 15°27 | 15° 3 | 27°36 | 18°27 | W11 | |
| T 12 | 9 29 5 | 23°12'18 | 2♁39 | 28°43 | 18°23 | 13° 3 | 12° 9 | 12°21 | 21°31 | 24°54 | 8°15 | 15°28 | 15° 0 | 27°42 | 18°32 | T 12 | |
| F 13 | 9 33 1 | 24°13'08 | 16°28 | 29°56 | 19°38 | 12°43 | 12° 4 | 12°16 | 21°35 | 24°53 | 8°16 | 15°29 | 14°57 | 27°49 | 18°37 | F 13 | |
| S 14 | 9 36 58 | 25°13'56 | 0♁43 | 1♁10 | 20°54 | 12°23 | 12° 0 | 12°11 | 21°38 | 24°51 | 8°16 | 15°29 | 14°54 | 27°56 | 18°42 | S 14 | |
| S 15 | 9 40 54 | 26°14'43 | 15°21 | 2°25 | 22° 9 | 12° 2 | 11°56 | 12° 6 | 21°41 | 24°50 | 8°17 | 15°R30 | 14°51 | 28° 2 | 18°46 | S 15 | |
| M16 | 9 44 51 | 27°15'29 | 0♁16 | 3°42 | 23°24 | 11°41 | 11°52 | 12° 2 | 21°44 | 24°48 | 8°17 | 15°29 | 14°48 | 28° 9 | 18°51 | M16 | |
| T 17 | 9 48 47 | 28°16'14 | 15°20 | 5° 1 | 24°40 | 11°19 | 11°49 | 11°57 | 21°47 | 24°47 | 8°18 | 15°28 | 14°44 | 28°16 | 18°56 | T 17 | |
| W18 | 9 52 44 | 29°16'58 | 0♁24 | 6°20 | 25°55 | 10°57 | 11°45 | 11°52 | 21°50 | 24°46 | 8°19 | 15°27 | 14°41 | 28°22 | 19° 1 | W18 | |
| T 19 | 9 56 40 | 0♁17'40 | 15°20 | 7°42 | 27°10 | 10°34 | 11°42 | 11°48 | 21°54 | 24°44 | 8°19 | 15°25 | 14°38 | 28°29 | 19° 6 | T 19 | |
| F 20 | 10 0 37 | 1°18'22 | 29°59 | 9° 4 | 28°25 | 10°12 | 11°39 | 11°43 | 21°57 | 24°43 | 8°20 | 15°23 | 14°35 | 28°36 | 19°11 | F 20 | |
| S 21 | 10 4 34 | 2°19'03 | 14♁17 | 10°27 | 29°41 | 9°48 | 11°36 | 11°39 | 22° 0 | 24°41 | 8°20 | 15°22 | 14°32 | 28°42 | 19°16 | S 21 | |
| S 22 | 10 8 30 | 3°19'42 | 28°11 | 11°52 | 0♁56 | 9°25 | 11°33 | 11°34 | 22° 4 | 24°40 | 8°21 | 15°D21 | 14°28 | 28°49 | 19°20 | S 22 | |
| M23 | 10 12 27 | 4°20'21 | 11♁42 | 13°18 | 2°11 | 9° 1 | 11°31 | 11°30 | 22° 7 | 24°38 | 8°22 | 15°21 | 14°25 | 28°56 | 19°25 | M23 | |
| T 24 | 10 16 23 | 5°20'59 | 24°51 | 14°44 | 3°26 | 8°38 | 11°28 | 11°26 | 22°10 | 24°36 | 8°23 | 15°22 | 14°22 | 29° 2 | 19°30 | T 24 | |
| W25 | 10 20 20 | 6°21'35 | 7♁41 | 16°12 | 4°41 | 8°14 | 11°26 | 11°22 | 22°14 | 24°35 | 8°23 | 15°23 | 14°19 | 29° 9 | 19°35 | W25 | |
| T 26 | 10 24 16 | 7°22'10 | 20°14 | 17°41 | 5°57 | 7°50 | 11°24 | 11°17 | 22°17 | 24°33 | 8°24 | 15°25 | 14°16 | 29°16 | 19°39 | T 26 | |
| F 27 | 10 28 13 | 8°22'44 | 2♁34 | 19°11 | 7°12 | 7°26 | 11°23 | 11°13 | 22°20 | 24°32 | 8°25 | 15°26 | 14°13 | 29°23 | 19°44 | F 27 | |
| S 28 | 10 32 9 | 9♁23'17 | 14♁43 | 20♁41 | 8♁27 | 7♁ 2 | 11♁21 | 11♁ 9 | 22♁24 | 24♁30 | 8♁26 | 15°R27 | 14♁ 9 | 29♁29 | 19♁49 | S 28 | |

Delta T = 19m53s

ASTRODIENST EPHEMERIS for the year 2595
geocentric

MARCH 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|------|-----|
| S 1 | 10 36 6 | 10 ^h 23'48" | 26 ^h 45' | 22 ^h 13' | 9 ^h 42' | 6 ^h R38 | 11 ^h R20 | 11 ^h R 5 | 22 ^h 27' | 24 ^h R29 | 8 ^h 26' | 15 ^h R26 | 14 ^h Ω 6 | 29 ^h 36' | 19 ^h 54' | S 1 | |
| M 2 | 10 40 3 | 11 ^h 24'18" | 8 ^h 41' | 23 ^h 46' | 10 ^h 57' | 6 ^h 14' | 11 ^h 19' | 11 ^h Ω 1 | 22 ^h 30' | 24 ^h 27' | 8 ^h 27' | 15 ^h Ω24 | 14 ^h 3 | 29 ^h 43' | 19 ^h 58' | M 2 | |
| T 3 | 10 43 59 | 12 ^h 24'46" | 20 ^h 33' | 25 ^h 19' | 12 ^h 13' | 5 ^h 51' | 11 ^h 18' | 10 ^h 58' | 22 ^h 34' | 24 ^h 25' | 8 ^h 28' | 15 ^h 21' | 14 ^h 0 | 29 ^h 49' | 20 ^h 3 | T 3 | |
| W 4 | 10 47 56 | 13 ^h 25'12" | 2 ^h 23' | 26 ^h 54' | 13 ^h 28' | 5 ^h 27' | 11 ^h 17' | 10 ^h 54' | 22 ^h 37' | 24 ^h 24' | 8 ^h 29' | 15 ^h 17' | 13 ^h 57' | 29 ^h 56' | 20 ^h 7 | W 4 | |
| T 5 | 10 51 52 | 14 ^h 25'37" | 14 ^h 13' | 28 ^h 29' | 14 ^h 43' | 5 ^h 4 | 11 ^h 17' | 10 ^h 50' | 22 ^h 41' | 24 ^h 22' | 8 ^h 30' | 15 ^h 11' | 13 ^h 54' | 0 ^h 3 | 20 ^h 12' | T 5 | |
| F 6 | 10 55 49 | 15 ^h 26'00" | 26 ^h 5 | 0 ^h 36' | 15 ^h 58' | 4 ^h 41' | 11 ^h 17' | 10 ^h 46' | 22 ^h 44' | 24 ^h 20' | 8 ^h 31' | 15 ^h 6 | 13 ^h 50' | 0 ^h 9 | 20 ^h 17' | F 6 | |
| S 7 | 10 59 45 | 16 ^h 26'22" | 8 ^h 1 | 1 ^h 43' | 17 ^h 13' | 4 ^h 19' | 11 ^h D16 | 10 ^h 43' | 22 ^h 47' | 24 ^h 19' | 8 ^h 31' | 15 ^h 0 | 13 ^h 47' | 0 ^h 16' | 20 ^h 21' | S 7 | |
| S 8 | 11 3 42 | 17 ^h 26'41" | 20 ^h 6 | 3 ^h 22' | 18 ^h 28' | 3 ^h 57' | 11 ^h 17' | 10 ^h 39' | 22 ^h 51' | 24 ^h 17' | 8 ^h 32' | 14 ^h 56' | 13 ^h 44' | 0 ^h 23' | 20 ^h 26' | S 8 | |
| M 9 | 11 7 38 | 18 ^h 26'59" | 2 ^h 22' | 5 ^h 1 | 19 ^h 43' | 3 ^h 35' | 11 ^h 17' | 10 ^h 36' | 22 ^h 54' | 24 ^h 15' | 8 ^h 33' | 14 ^h 53' | 13 ^h 41' | 0 ^h 29' | 20 ^h 30' | M 9 | |
| T 10 | 11 11 35 | 19 ^h 27'14" | 14 ^h 52' | 6 ^h 41' | 20 ^h 58' | 3 ^h 14' | 11 ^h 17' | 10 ^h 33' | 22 ^h 58' | 24 ^h 14' | 8 ^h 34' | 14 ^h D52 | 13 ^h 38' | 0 ^h 36' | 20 ^h 35' | T 10 | |
| W11 | 11 15 31 | 20 ^h 27'28" | 27 ^h 42' | 8 ^h 23' | 22 ^h 13' | 2 ^h 53' | 11 ^h 18' | 10 ^h 30' | 23 ^h 1 | 24 ^h 12' | 8 ^h 35' | 14 ^h 52' | 13 ^h 34' | 0 ^h 43' | 20 ^h 39' | W11 | |
| T 12 | 11 19 28 | 21 ^h 27'40" | 10 ^h 55' | 10 ^h 5 | 23 ^h 28' | 2 ^h 33' | 11 ^h 19' | 10 ^h 27' | 23 ^h 5 | 24 ^h 11' | 8 ^h 36' | 14 ^h 53' | 13 ^h 31' | 0 ^h 49' | 20 ^h 43' | T 12 | |
| F 13 | 11 23 25 | 22 ^h 27'49" | 24 ^h 34' | 11 ^h 49' | 24 ^h 43' | 2 ^h 14' | 11 ^h 20' | 10 ^h 23' | 23 ^h 8 | 24 ^h 9 | 8 ^h 37' | 14 ^h 55' | 13 ^h 28' | 0 ^h 56' | 20 ^h 48' | F 13 | |
| S 14 | 11 27 21 | 23 ^h 27'57" | 8 ^h Ω4 | 13 ^h 34' | 25 ^h 58' | 1 ^h 55' | 11 ^h 21' | 10 ^h 21' | 23 ^h 11' | 24 ^h 7 | 8 ^h 38' | 14 ^h R56 | 13 ^h 25' | 1 ^h 3 | 20 ^h 52' | S 14 | |
| S 15 | 11 31 18 | 24 ^h 28'02" | 23 ^h 14' | 15 ^h 19' | 27 ^h 13' | 1 ^h 36' | 11 ^h 23' | 10 ^h 18' | 23 ^h 15' | 24 ^h 6 | 8 ^h 39' | 14 ^h 56' | 13 ^h 22' | 1 ^h 9 | 20 ^h 56' | S 15 | |
| M16 | 11 35 14 | 25 ^h 28'06" | 8 ^h 11' | 17 ^h 6 | 28 ^h 28' | 1 ^h 19' | 11 ^h 25' | 10 ^h 15' | 23 ^h 18' | 24 ^h 4 | 8 ^h 40' | 14 ^h 54' | 13 ^h 19' | 1 ^h 16' | 21 ^h 1 | M16 | |
| T 17 | 11 39 11 | 26 ^h 28'07" | 23 ^h 24' | 18 ^h 54' | 29 ^h 43' | 1 ^h 1 | 11 ^h 26' | 10 ^h 12' | 23 ^h 22' | 24 ^h 2 | 8 ^h 41' | 14 ^h 50' | 13 ^h 15' | 1 ^h 23' | 21 ^h 5 | T 17 | |
| W18 | 11 43 7 | 27 ^h 28'07" | 8 ^h Ω42 | 20 ^h 43' | 0 ^h 58' | 0 ^h 45' | 11 ^h 29' | 10 ^h 10' | 23 ^h 25' | 24 ^h 0 | 8 ^h 42' | 14 ^h 44' | 13 ^h 12' | 1 ^h 30' | 21 ^h 9 | W18 | |
| T 19 | 11 47 4 | 28 ^h 28'05" | 23 ^h 56' | 22 ^h 33' | 2 ^h 13' | 0 ^h 29' | 11 ^h 31' | 10 ^h 7 | 23 ^h 29' | 23 ^h 59' | 8 ^h 44' | 14 ^h 38' | 13 ^h 9 | 1 ^h 36' | 21 ^h 13' | T 19 | |
| F 20 | 11 51 0 | 29 ^h 28'01" | 8 ^h 154 | 24 ^h 24' | 3 ^h 27' | 0 ^h 14' | 11 ^h 33' | 10 ^h 5 | 23 ^h 32' | 23 ^h 57' | 8 ^h 45' | 14 ^h 31' | 13 ^h 6 | 1 ^h 43' | 21 ^h 17' | F 20 | |
| S 21 | 11 54 57 | 0 ^h 27'56" | 23 ^h 30' | 26 ^h 17' | 4 ^h 42' | 29 ^h Ω59 | 11 ^h 36' | 10 ^h 3 | 23 ^h 35' | 23 ^h 56' | 8 ^h 46' | 14 ^h 25' | 13 ^h 3 | 1 ^h 50' | 21 ^h 21' | S 21 | |
| S 22 | 11 58 54 | 1 ^h 27'49" | 7 ^h 37' | 28 ^h 10' | 5 ^h 57' | 29 ^h 46' | 11 ^h 39' | 10 ^h 1 | 23 ^h 39' | 23 ^h 54' | 8 ^h 47' | 14 ^h 21' | 13 ^h 0 | 1 ^h 56' | 21 ^h 25' | S 22 | |
| M23 | 12 2 50 | 2 ^h 27'40" | 21 ^h 15' | 0 ^h 34' | 7 ^h 12' | 29 ^h 34' | 11 ^h 42' | 9 ^h 59' | 23 ^h 42' | 23 ^h 52' | 8 ^h 48' | 14 ^h 18' | 12 ^h 56' | 2 ^h 3 | 21 ^h 29' | M23 | |
| T 24 | 12 6 47 | 3 ^h 27'30" | 4 ^h 36' | 2 ^h 0 | 8 ^h 27' | 29 ^h 22' | 11 ^h 45' | 9 ^h 57' | 23 ^h 46' | 23 ^h 51' | 8 ^h 49' | 14 ^h D17 | 12 ^h 53' | 2 ^h 10' | 21 ^h 33' | T 24 | |
| W25 | 12 10 43 | 4 ^h 27'18" | 17 ^h 12' | 3 ^h 57' | 9 ^h 42' | 29 ^h 10' | 11 ^h 48' | 9 ^h 55' | 23 ^h 49' | 23 ^h 49' | 8 ^h 50' | 14 ^h 18' | 12 ^h 50' | 2 ^h 16' | 21 ^h 37' | W25 | |
| T 26 | 12 14 40 | 5 ^h 27'04" | 29 ^h 39' | 5 ^h 54' | 10 ^h 56' | 29 ^h 0 | 11 ^h 52' | 9 ^h 53' | 23 ^h 52' | 23 ^h 47' | 8 ^h 52' | 14 ^h 19' | 12 ^h 47' | 2 ^h 23' | 21 ^h 41' | T 26 | |
| F 27 | 12 18 36 | 6 ^h 26'49" | 11 ^h 50' | 7 ^h 52' | 12 ^h 11' | 28 ^h 50' | 11 ^h 56' | 9 ^h 51' | 23 ^h 56' | 23 ^h 46' | 8 ^h 53' | 14 ^h R20 | 12 ^h 44' | 2 ^h 30' | 21 ^h 45' | F 27 | |
| S 28 | 12 22 33 | 7 ^h 26'32" | 23 ^h 50' | 9 ^h 52' | 13 ^h 26' | 28 ^h 41' | 11 ^h 59' | 9 ^h 50' | 23 ^h 59' | 23 ^h 44' | 8 ^h 54' | 14 ^h 20' | 12 ^h 40' | 2 ^h 36' | 21 ^h 49' | S 28 | |
| S 29 | 12 26 29 | 8 ^h 26'13" | 5 ^h 34' | 11 ^h 51' | 14 ^h 40' | 28 ^h 33' | 12 ^h 4 | 9 ^h 48' | 24 ^h 3 | 23 ^h 42' | 8 ^h 55' | 14 ^h 17' | 12 ^h 37' | 2 ^h 43' | 21 ^h 53' | S 29 | |
| M30 | 12 30 26 | 9 ^h 25'52" | 17 ^h 34' | 13 ^h 52' | 15 ^h 55' | 28 ^h 25' | 12 ^h 8 | 9 ^h 47' | 24 ^h 6 | 23 ^h 41' | 8 ^h 56' | 14 ^h 12' | 12 ^h 34' | 2 ^h 50' | 21 ^h 56' | M30 | |
| T 31 | 12 34 23 | 10 ^h 25'30" | 29 ^h 23' | 15 ^h 53' | 17 ^h 10' | 28 ^h Ω19 | 12 ^h Ω12 | 9 ^h Ω46 | 24 ^h 36' | 23 ^h 39' | 8 ^h 58' | 14 ^h Ω 4 | 12 ^h Ω31 | 2 ^h 57' | 22 ^h 0 | T 31 | |

Delta T = 19m53s

APRIL 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|------|-----|
| W 1 | 12 38 19 | 11 ^h 25'05" | 11 ^h 13' | 17 ^h 53' | 18 ^h 24' | 28 ^h R13 | 12 ^h Ω17 | 9 ^h R45 | 24 ^h 313 | 23 ^h R38 | 8 ^h 59' | 13 ^h R55 | 12 ^h Ω28 | 3 ^h 3 | 22 ^h 4 | W 1 | |
| T 2 | 12 42 16 | 12 ^h 24'39" | 23 ^h 6 | 19 ^h 54' | 19 ^h 39' | 28 ^h Ω 8 | 12 ^h 22' | 9 ^h Ω44 | 24 ^h 16' | 23 ^h 36' | 9 ^h 0 | 13 ^h Ω43 | 12 ^h 25' | 3 ^h 10' | 22 ^h 7 | T 2 | |
| F 3 | 12 46 12 | 13 ^h 24'10" | 5 ^h 3 | 21 ^h 55' | 20 ^h 54' | 28 ^h 4 | 12 ^h 27' | 9 ^h 43' | 24 ^h 19' | 23 ^h 35' | 9 ^h 1 | 13 ^h 32' | 12 ^h 21' | 3 ^h 17' | 22 ^h 11' | F 3 | |
| S 4 | 12 50 9 | 14 ^h 23'40" | 17 ^h 6 | 23 ^h 54' | 22 ^h 8 | 28 ^h 0 | 12 ^h 32' | 9 ^h 42' | 24 ^h 23' | 23 ^h 33' | 9 ^h 3 | 13 ^h 20' | 12 ^h 18' | 3 ^h 23' | 22 ^h 14' | S 4 | |
| S 5 | 12 54 5 | 15 ^h 23'07" | 29 ^h 17' | 25 ^h 53' | 23 ^h 23' | 27 ^h 58' | 12 ^h 37' | 9 ^h 41' | 24 ^h 26' | 23 ^h 31' | 9 ^h 4 | 13 ^h 10' | 12 ^h 15' | 3 ^h 30' | 22 ^h 18' | S 5 | |
| M 6 | 12 58 2 | 16 ^h 22'32" | 11 ^h 37' | 27 ^h 51' | 24 ^h 37' | 27 ^h 56' | 12 ^h 43' | 9 ^h 41' | 24 ^h 29' | 23 ^h 30' | 9 ^h 5 | 13 ^h 3 | 12 ^h 12' | 3 ^h 37' | 22 ^h 21' | M 6 | |
| T 7 | 13 1 58 | 17 ^h 21'55" | 24 ^h 10' | 29 ^h 47' | 25 ^h 52' | 27 ^h 54' | 12 ^h 48' | 9 ^h 40' | 24 ^h 32' | 23 ^h 28' | 9 ^h 6 | 12 ^h 58' | 12 ^h 9 | 3 ^h 43' | 22 ^h 24' | T 7 | |
| W 8 | 13 5 55 | 18 ^h 21'16" | 6 ^h 58' | 18 ^h 41' | 27 ^h 6 | 27 ^h D54 | 12 ^h 54' | 9 ^h 40' | 24 ^h 36' | 23 ^h 27' | 9 ^h 8 | 12 ^h 55' | 12 ^h 5 | 3 ^h 50' | 22 ^h 28' | W 8 | |
| T 9 | 13 9 52 | 19 ^h 20'34" | 20 ^h 5 | 3 ^h 32' | 28 ^h 21' | 27 ^h 54' | 13 ^h 0 | 9 ^h 40' | 24 ^h 39' | 23 ^h 25' | 9 ^h 9 | 12 ^h D55 | 12 ^h 2 | 3 ^h 57' | 22 ^h 31' | T 9 | |
| F 10 | 13 13 48 | 20 ^h 19'51" | 3 ^h Ω35 | 5 ^h 20' | 29 ^h 35' | 27 ^h 55' | 13 ^h 6 | 9 ^h D40 | 24 ^h 42' | 23 ^h 24' | 9 ^h 10' | 12 ^h 55' | 11 ^h 59' | 4 ^h 3 | 22 ^h 34' | F 10 | |
| S 11 | 13 17 45 | 21 ^h 19'04" | 17 ^h 29' | 7 ^h 5 | 0 ^h 50' | 27 ^h 57' | 13 ^h 12' | 9 ^h 40' | 24 ^h 45' | 23 ^h 23' | 9 ^h 12' | 12 ^h R55 | 11 ^h 56' | 4 ^h 10' | 22 ^h 37' | S 11 | |
| S 12 | 13 21 41 | 22 ^h 18'16" | 1 ^h 49' | 8 ^h 47' | 2 ^h 4 | 28 ^h 0 | 13 ^h 19' | 9 ^h 40' | 24 ^h 48' | 23 ^h 21' | 9 ^h 13' | 12 ^h 54' | 11 ^h 53' | 4 ^h 17' | 22 ^h 40' | S 12 | |
| M13 | 13 25 38 | 23 ^h 17'25" | 16 ^h 32' | 10 ^h 24' | 3 ^h 18' | 28 ^h 3 | 13 ^h 25' | 9 ^h 40' | 24 ^h 51' | 23 ^h 20' | 9 ^h 14' | 12 ^h 50' | 11 ^h 50' | 4 ^h 24' | 22 ^h 43' | M13 | |
| T 14 | 13 29 34 | 24 ^h 16'32" | 1 ^h 35' | 11 ^h 57' | 4 ^h 33' | 28 ^h 7 | 13 ^h 32' | 9 ^h 40' | 24 ^h 54' | 23 ^h 18' | 9 ^h 16' | 12 ^h 44' | 11 ^h 46' | 4 ^h 30' | 22 ^h 46' | T 14 | |
| W15 | 13 33 31 | 25 ^h 15'36" | 16 ^h 49' | 13 ^h 26' | 5 ^h 47' | 28 ^h 11' | 13 ^h 39' | 9 ^h 41' | 24 ^h 58' | 23 ^h 17' | 9< | | | | | | |

ASTRODIENST EPHEMERIS for the year 2595
geocentric

MAY 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|------|-------|------|-----|
| F 1 | 14 36 36 | 10♈56'48 | 14♉6 | 23°R53 | 25♉33 | 0♉46 | 15♉47 | 10♉3 | 25♉44 | 22°R58 | 9♉39 | 10°R46 | 10♉52 | 6♉24 | 23♉27 | F 1 | |
| S 2 | 14 40 32 | 11°55'22 | 26°20 | 23♉41 | 26°46 | 1°0 | 15°56 | 10°5 | 25°46 | 22♉57 | 9°40 | 10♉33 | 10°49 | 6°31 | 23°29 | S 2 | |
| S 3 | 14 44 29 | 12°53'55 | 8♉43 | 23°24 | 28°0 | 1°15 | 16°5 | 10°7 | 25°49 | 22°56 | 9°42 | 10°20 | 10°46 | 6°37 | 23°31 | S 3 | |
| M 4 | 14 48 25 | 13°52'25 | 21°16 | 23°2 | 29°14 | 1°30 | 16°14 | 10°10 | 25°51 | 22°55 | 9°43 | 10°11 | 10°43 | 6°44 | 23°33 | M 4 | |
| T 5 | 14 52 22 | 14°50'54 | 3♉59 | 22°36 | 0♉28 | 1°46 | 16°24 | 10°12 | 25°54 | 22°54 | 9°45 | 10°4 | 10°40 | 6°51 | 23°34 | T 5 | |
| W 6 | 14 56 18 | 15°49'20 | 16°55 | 22°6 | 1°42 | 2°2 | 16°33 | 10°15 | 25°56 | 22°53 | 9°46 | 10°0 | 10°37 | 6°58 | 23°36 | W 6 | |
| T 7 | 15 0 15 | 16°47'45 | 0♉6 | 21°34 | 2°56 | 2°19 | 16°43 | 10°18 | 25°59 | 22°53 | 9°47 | 9°59 | 10°33 | 7°4 | 23°37 | T 7 | |
| F 8 | 15 4 12 | 17°46'07 | 13°34 | 20°58 | 4°9 | 2°36 | 16°52 | 10°21 | 26°1 | 22°52 | 9°49 | 9°59 | 10°30 | 7°11 | 23°39 | F 8 | |
| S 9 | 15 8 8 | 18°44'27 | 27°21 | 20°21 | 5°23 | 2°54 | 17°2 | 10°24 | 26°4 | 22°51 | 9°50 | 9°59 | 10°27 | 7°18 | 23°40 | S 9 | |
| S 10 | 15 12 5 | 19°42'46 | 11♉28 | 19°42 | 6°37 | 3°12 | 17°12 | 10°27 | 26°6 | 22°50 | 9°51 | 9°57 | 10°24 | 7°24 | 23°42 | S 10 | |
| M 11 | 15 16 1 | 20°41'02 | 25°54 | 19°3 | 7°50 | 3°30 | 17°22 | 10°30 | 26°8 | 22°49 | 9°53 | 9°54 | 10°21 | 7°31 | 23°43 | M 11 | |
| T 12 | 15 19 58 | 21°39'16 | 10♉38 | 18°25 | 9°4 | 3°49 | 17°32 | 10°33 | 26°11 | 22°49 | 9°54 | 9°48 | 10°17 | 7°38 | 23°44 | T 12 | |
| W 13 | 15 23 54 | 22°37'28 | 25°32 | 17°47 | 10°18 | 4°8 | 17°43 | 10°36 | 26°13 | 22°48 | 9°56 | 9°39 | 10°14 | 7°44 | 23°45 | W 13 | |
| T 14 | 15 27 51 | 23°35'38 | 10♉30 | 17°11 | 11°31 | 4°27 | 17°53 | 10°40 | 26°15 | 22°47 | 9°57 | 9°29 | 10°11 | 7°51 | 23°46 | T 14 | |
| F 15 | 15 31 47 | 24°33'46 | 25°22 | 16°37 | 12°45 | 4°47 | 18°3 | 10°43 | 26°17 | 22°47 | 9°58 | 9°18 | 10°8 | 7°58 | 23°47 | F 15 | |
| S 16 | 15 35 44 | 25°31'53 | 9♉58 | 16°5 | 13°58 | 5°7 | 18°14 | 10°47 | 26°19 | 22°46 | 10°0 | 9°8 | 10°5 | 8°5 | 23°48 | S 16 | |
| S 17 | 15 39 41 | 26°29'59 | 24°13 | 15°37 | 15°12 | 5°28 | 18°24 | 10°51 | 26°22 | 22°46 | 10°1 | 9°0 | 10°2 | 8°11 | 23°49 | S 17 | |
| M 18 | 15 43 37 | 27°28'03 | 8♉1 | 15°13 | 16°25 | 5°49 | 18°35 | 10°54 | 26°24 | 22°45 | 10°2 | 8°54 | 9°58 | 8°18 | 23°50 | M 18 | |
| T 19 | 15 47 34 | 28°26'05 | 21°22 | 14°52 | 17°38 | 6°10 | 18°46 | 10°58 | 26°26 | 22°45 | 10°4 | 8°50 | 9°55 | 8°25 | 23°51 | T 19 | |
| W 20 | 15 51 30 | 29°24'06 | 4♉16 | 14°35 | 18°52 | 6°31 | 18°57 | 11°2 | 26°28 | 22°44 | 10°5 | 8°D49 | 9°52 | 8°31 | 23°51 | W 20 | |
| T 21 | 15 55 27 | 0♉22'06 | 16°48 | 14°23 | 20°5 | 6°53 | 19°7 | 11°6 | 26°30 | 22°44 | 10°6 | 8°49 | 9°49 | 8°38 | 23°52 | T 21 | |
| F 22 | 15 59 23 | 1°20'05 | 29°1 | 14°16 | 21°19 | 7°15 | 19°19 | 11°11 | 26°32 | 22°43 | 10°8 | 8°R50 | 9°46 | 8°45 | 23°52 | F 22 | |
| S 23 | 16 3 20 | 2°18'02 | 11♉2 | 14°D12 | 22°32 | 7°38 | 19°30 | 11°15 | 26°33 | 22°43 | 10°9 | 8°49 | 9°42 | 8°51 | 23°53 | S 23 | |
| S 24 | 16 7 16 | 3°15'58 | 22°54 | 14°14 | 23°45 | 8°1 | 19°41 | 11°19 | 26°35 | 22°43 | 10°10 | 8°47 | 9°39 | 8°58 | 23°53 | S 24 | |
| M 25 | 16 11 13 | 4°13'52 | 4♉44 | 14°20 | 24°58 | 8°24 | 19°52 | 11°23 | 26°37 | 22°42 | 10°11 | 8°43 | 9°36 | 9°5 | 23°54 | M 25 | |
| T 26 | 16 15 10 | 5°11'46 | 16°36 | 14°31 | 26°12 | 8°47 | 20°3 | 11°28 | 26°39 | 22°42 | 10°13 | 8°36 | 9°33 | 9°12 | 23°54 | T 26 | |
| W 27 | 16 19 6 | 6°9'38 | 28°32 | 14°46 | 27°25 | 9°11 | 20°15 | 11°33 | 26°40 | 22°42 | 10°14 | 8°28 | 9°30 | 9°18 | 23°54 | W 27 | |
| T 28 | 16 23 3 | 7°7'29 | 10♉38 | 15°6 | 28°38 | 9°35 | 20°26 | 11°37 | 26°42 | 22°42 | 10°15 | 8°17 | 9°27 | 9°25 | 23°54 | T 28 | |
| F 29 | 16 26 59 | 8°5'19 | 22°53 | 15°30 | 29°51 | 9°59 | 20°38 | 11°42 | 26°44 | 22°41 | 10°17 | 8°6 | 9°23 | 9°32 | 23°54 | F 29 | |
| S 30 | 16 30 56 | 9°3'07 | 5♉20 | 15°58 | 1°58 | 10°24 | 20°49 | 11°47 | 26°45 | 22°41 | 10°18 | 7°55 | 9°20 | 9°38 | 23°54 | S 30 | |
| S 31 | 16 34 52 | 10♉0'54 | 17♉59 | 16♉31 | 2♉18 | 10♉49 | 21♉1 | 11♉52 | 26♉47 | 22♉41 | 10♉19 | 7♉46 | 9♉17 | 9♉45 | 23♉54 | S 31 | |

Delta T = 19m54s

JUNE 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|-------|--------|------|-----|
| M 1 | 16 38 49 | 10♉58'40 | 0♉50 | 17♉7 | 3♉31 | 11♉14 | 21♉13 | 11♉57 | 26♉48 | 22°R41 | 10♉20 | 7°R39 | 9♉14 | 9♉52 | 23°R54 | M 1 | |
| T 2 | 16 42 45 | 11°56'25 | 13°52 | 17°47 | 4°44 | 11°39 | 21°25 | 12°2 | 26°50 | 22♉41 | 10°21 | 7♉34 | 9°11 | 9°59 | 23♉54 | T 2 | |
| W 3 | 16 46 42 | 12°54'08 | 27°6 | 18°31 | 5°57 | 12°5 | 21°36 | 12°7 | 26°51 | 22°D41 | 10°23 | 7°31 | 9°8 | 10°5 | 23°53 | W 3 | |
| T 4 | 16 50 39 | 13°51'49 | 10♉31 | 19°19 | 7°10 | 12°31 | 21°48 | 12°12 | 26°52 | 22°41 | 10°24 | 7°D31 | 9°4 | 10°12 | 23°53 | T 4 | |
| F 5 | 16 54 35 | 14°49'29 | 24°9 | 20°10 | 8°23 | 12°57 | 22°0 | 12°17 | 26°54 | 22°41 | 10°25 | 7°31 | 9°1 | 10°19 | 23°53 | F 5 | |
| S 6 | 16 58 32 | 15°47'08 | 7♉59 | 21°5 | 9°36 | 13°23 | 22°13 | 12°23 | 26°55 | 22°41 | 10°26 | 7°32 | 8°58 | 10°25 | 23°52 | S 6 | |
| S 7 | 17 2 28 | 16°44'45 | 22°2 | 22°3 | 10°48 | 13°50 | 22°25 | 12°28 | 26°56 | 22°41 | 10°27 | 7°R32 | 8°55 | 10°32 | 23°51 | S 7 | |
| M 8 | 17 6 25 | 17°42'21 | 6♉17 | 23°4 | 12°8 | 14°17 | 22°37 | 12°33 | 26°57 | 22°42 | 10°29 | 7°31 | 8°52 | 10°39 | 23°51 | M 8 | |
| T 9 | 17 10 21 | 18°39'55 | 20°41 | 24°9 | 13°14 | 14°44 | 22°49 | 12°39 | 26°58 | 22°42 | 10°30 | 7°28 | 8°48 | 10°45 | 23°50 | T 9 | |
| W 10 | 17 14 18 | 19°37'28 | 5♉13 | 25°16 | 14°27 | 15°11 | 23°1 | 12°45 | 26°59 | 22°42 | 10°31 | 7°22 | 8°45 | 10°52 | 23°49 | W 10 | |
| T 11 | 17 18 14 | 20°34'59 | 19°45 | 26°27 | 15°40 | 15°39 | 23°14 | 12°50 | 27°0 | 22°42 | 10°32 | 7°16 | 8°42 | 10°59 | 23°48 | T 11 | |
| F 12 | 17 22 11 | 21°32'30 | 4♉12 | 27°41 | 16°52 | 16°6 | 23°26 | 12°56 | 27°1 | 22°42 | 10°33 | 7°8 | 8°39 | 11°6 | 23°48 | F 12 | |
| S 13 | 17 26 8 | 22°29'59 | 18°27 | 28°57 | 18°5 | 16°34 | 23°38 | 13°2 | 27°2 | 22°43 | 10°34 | 7°2 | 8°36 | 11°12 | 23°47 | S 13 | |
| S 14 | 17 30 4 | 23°27'27 | 2♉26 | 0♉17 | 19°18 | 17°2 | 23°51 | 13°8 | 27°3 | 22°43 | 10°35 | 6°56 | 8°33 | 11°19 | 23°46 | S 14 | |
| M 15 | 17 34 1 | 24°24'55 | 16°3 | 1°39 | 20°30 | 17°31 | 24°4 | 13°14 | 27°4 | 22°43 | 10°36 | 6°53 | 8°29 | 11°26 | 23°44 | M 15 | |
| T 16 | 17 37 57 | 25°22'21 | 29°18 | 3°4 | 21°43 | 17°59 | 24°16 | 13°20 | 27°5 | 22°44 | 10°37 | 6°51 | 8°26 | 11°32 | 23°43 | T 16 | |
| W 17 | 17 41 54 | 26°19'47 | 12♉11 | 4°32 | 22°55 | 18°28 | 24°29 | 13°26 | 27°6 | 22°44 | 10°38 | 6°D51 | 8°23 | 11°39 | 23°42 | W 17 | |
| T 18 | 17 45 50 | 27°17'13 | 24°43 | 6°3 | 24°8 | 18°57 | 24°41 | 13°32 | 27°6 | 22°45 | 10°39 | 6°52 | 8°20 | 11°46 | 23°41 | T 18 | |
| F 19 | 17 49 47 | 28°14'37 | 6♉59 | 7°36 | 25°20 | 19°26 | 24°54 | 13°38 | 27°7 | 22°45 | 10°40 | 6°53 | 8°17 | 11°53 | 23°39 | F 19 | |
| S 20 | 17 53 43 | 29°12'01 | 19°1 | 9°12 | 26°33 | 19°55 | 25°7 | 13°44 | 27°7 | 22°46 | 10°41 | 6°55 | 8°14 | 11°59 | 23°38 | S 20 | |
| S 21 | 17 57 40 | 0♉9'25 | 0♉56 | 10°51 | 27°45 | 20°24 | 25°20 | 13°50 | 27°8 | 22°46 | 10°42 | 6°R55 | 8°10 | 12°6 | 23°37 | S 21 | |
| M 22 | 18 1 37 | 1°6'48 | 12°48 | 12°33 | 28°57 | 20°54 | 25°32 | 13°57 | 27°8 | 22°47 | 10°43 | 6°54 | 8°7 | 12°13 | 23°35 | M 22 | |
| T 23 | 18 5 33 | 2°4'10 | 24°42 | 14°17 | 0♉10 | 21°24 | 25°45 | 14°3 | 27°9 | 22°48 | 10°44 | 6°52 | 8°4 | 12°19 | 23°33 | T 23 | |
| W 24 | 18 9 30 | 3°1'32 | 6♉42 | 16°4 | 1°22 | 21°54 | 25°58 | 14°10 | 27°9 | 22°48 | 10°45 | 6°48 | 8°1 | 12°26 | 23°32 | W 24 | |
| T 25 | 18 13 26 | 3°58'54 | 18°53 | 17°54 | 2°34 | 22°24 | 26°11 | 14°16 | 27°10 | 22°49 | 10°46 | 6°44 | 7°58 | 12°33 | 23°30 | T 25 | |
| F 26 | 18 17 23 | 4°56'15 | 1♉16 | 19°46 | 3°47 | 22°54 | 26°24 | 14°23 | 27°10 | 22°50 | 10°47 | 6°38 | 7°54 | 12°39 | 23°28 | F 26 | |
| S 27 | 18 21 19 | 5°53'36 | 13°54 | 21°41 | 4°59 | 23°25 | 26°37 | 14°29 | 27°10 | 22°50 | 10°48 | 6°33 | 7°51 | 12°46 | 23°26 | S 27 | |
| S 28 | 18 25 16 | 6°50'56 | 26°48 | 23°38 | 6°11 | 23°55 | 26°50 | 14°36 | 27°10 | 22°51 | 10°49 | 6°29 | 7°48 | 12°53 | 23°25 | S 28 | |
| M 29 | 18 29 13 | 7°48'16 | 9♉38 | 25°37 | 7°23 | 24°26 | 27°3 | 14°43 | 27°11 | 22°52 | 10°49 | 6°25 | 7°45 | 13°0 | 23°23 | M 29 | |
| T 30 | 18 33 9 | 8♉45'36 | 23♉22 | 27♉39 | 8♉35 | 24♉57 | 27♉16 | 14♉49 | 27♉11 | 22♉53 | 10♉50 | 6♉23 | 7♉42 | 13♉6 | 23♉21 | T 30 | |

ASTRODIENST EPHEMERIS for the year 2595
geocentric

JULY 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|--------|------|
| W 1 | 18 37 6 | 9♄24'55 | 7♂ 0 | 29♂42 | 9♂147 | 25♂28 | 27♄30 | 14♂56 | 27♂11 | 22♂54 | 10♂51 | 6°D23 | 7♂39 | 13♂13 | 23°R19 | W 1 |
| T 2 | 18 41 2 | 10°40'13 | 20°49 | 1♄48 | 10°59 | 26° 0 | 27°43 | 15° 3 | 27°R11 | 22°55 | 10°52 | 6♂23 | 7°35 | 13°20 | 23°16 | T 2 |
| F 3 | 18 44 59 | 11°37'31 | 4♂47 | 3°55 | 12°11 | 26°31 | 27°56 | 15°10 | 27°11 | 22°56 | 10°53 | 6°25 | 7°32 | 13°26 | 23°14 | F 3 |
| S 4 | 18 48 55 | 12°34'48 | 18°52 | 6° 3 | 13°23 | 27° 3 | 28° 9 | 15°17 | 27°11 | 22°57 | 10°53 | 6°26 | 7°29 | 13°33 | 23°12 | S 4 |
| S 5 | 18 52 52 | 13°32'04 | 3♂ 2 | 8°12 | 14°35 | 27°34 | 28°22 | 15°24 | 27°10 | 22°58 | 10°54 | 6°27 | 7°26 | 13°40 | 23°10 | S 5 |
| M 6 | 18 56 48 | 14°29'20 | 17°15 | 10°23 | 15°47 | 28° 6 | 28°36 | 15°31 | 27°10 | 22°59 | 10°55 | 6°R27 | 7°23 | 13°47 | 23° 7 | M 6 |
| T 7 | 19 0 45 | 15°26'35 | 1♂29 | 12°34 | 16°58 | 28°38 | 28°49 | 15°38 | 27°10 | 23° 0 | 10°56 | 6°27 | 7°20 | 13°53 | 23° 5 | T 7 |
| W 8 | 19 4 42 | 16°23'49 | 15°41 | 14°45 | 18°10 | 29°10 | 29° 2 | 15°45 | 27°10 | 23° 1 | 10°56 | 6°25 | 7°16 | 14° 0 | 23° 3 | W 8 |
| T 9 | 19 8 38 | 17°21'03 | 29°49 | 16°56 | 19°22 | 29°43 | 29°15 | 15°52 | 27° 9 | 23° 2 | 10°57 | 6°23 | 7°13 | 14° 7 | 23° 0 | T 9 |
| F 10 | 19 12 35 | 18°18'17 | 13♂48 | 19° 7 | 20°33 | 0♂15 | 29°29 | 15°59 | 27° 9 | 23° 3 | 10°58 | 6°20 | 7°10 | 14°13 | 22°58 | F 10 |
| S 11 | 19 16 31 | 19°15'30 | 27°36 | 21°17 | 21°45 | 0°48 | 29°42 | 16° 6 | 27° 9 | 23° 4 | 10°58 | 6°18 | 7° 7 | 14°20 | 22°55 | S 11 |
| S 12 | 19 20 28 | 20°12'44 | 11♂10 | 23°27 | 22°56 | 1°21 | 29°55 | 16°13 | 27° 8 | 23° 5 | 10°59 | 6°16 | 7° 4 | 14°27 | 22°53 | S 12 |
| M13 | 19 24 24 | 21° 9'57 | 24°27 | 25°35 | 24° 8 | 1°53 | 0♂ 9 | 16°21 | 27° 8 | 23° 7 | 10°59 | 6°15 | 7° 0 | 14°34 | 22°50 | M13 |
| T 14 | 19 28 21 | 22° 7'10 | 7♂28 | 27°43 | 25°19 | 2°26 | 0°22 | 16°28 | 27° 7 | 23° 8 | 11° 0 | 6°D15 | 6°57 | 14°40 | 22°47 | T 14 |
| W15 | 19 32 17 | 23° 4'23 | 20°12 | 29°49 | 26°30 | 2°59 | 0°36 | 16°35 | 27° 6 | 23° 9 | 11° 1 | 6°15 | 6°54 | 14°47 | 22°45 | W15 |
| T 16 | 19 36 14 | 24° 1'36 | 2♂39 | 1♂53 | 27°42 | 3°33 | 0°49 | 16°43 | 27° 6 | 23°11 | 11° 1 | 6°16 | 6°51 | 14°54 | 22°42 | T 16 |
| F 17 | 19 40 11 | 24°58'49 | 14°53 | 3°56 | 28°53 | 4° 6 | 1° 2 | 16°50 | 27° 5 | 23°12 | 11° 2 | 6°17 | 6°48 | 15° 0 | 22°39 | F 17 |
| S 18 | 19 44 7 | 25°56'02 | 26°55 | 5°58 | 0♂ 4 | 4°40 | 1°16 | 16°57 | 27° 4 | 23°13 | 11° 2 | 6°18 | 6°45 | 15° 7 | 22°36 | S 18 |
| S 19 | 19 48 4 | 26°53'16 | 8♂51 | 7°57 | 1°15 | 5°13 | 1°29 | 17° 5 | 27° 4 | 23°15 | 11° 3 | 6°19 | 6°41 | 15°14 | 22°33 | S 19 |
| M20 | 19 52 0 | 27°50'30 | 20°44 | 9°55 | 2°26 | 5°47 | 1°43 | 17°12 | 27° 3 | 23°16 | 11° 3 | 6°20 | 6°38 | 15°21 | 22°31 | M20 |
| T 21 | 19 55 57 | 28°47'45 | 2♂39 | 11°51 | 3°37 | 6°21 | 1°56 | 17°20 | 27° 2 | 23°17 | 11° 3 | 6°R20 | 6°35 | 15°27 | 22°28 | T 21 |
| W22 | 19 59 53 | 29°45'00 | 14°40 | 13°45 | 4°48 | 6°55 | 2°10 | 17°27 | 27° 1 | 23°19 | 11° 4 | 6°19 | 6°32 | 15°34 | 22°25 | W22 |
| T 23 | 20 3 50 | 0♂42'16 | 26°51 | 15°37 | 5°59 | 7°29 | 2°23 | 17°35 | 27° 0 | 23°20 | 11° 4 | 6°19 | 6°29 | 15°41 | 22°22 | T 23 |
| F 24 | 20 7 46 | 1°39'32 | 9♂18 | 17°28 | 7°10 | 8° 3 | 2°36 | 17°42 | 26°59 | 23°22 | 11° 5 | 6°18 | 6°26 | 15°47 | 22°19 | F 24 |
| S 25 | 20 11 43 | 2°36'48 | 2° 2 | 19°16 | 8°21 | 8°37 | 2°50 | 17°50 | 26°58 | 23°23 | 11° 5 | 6°18 | 6°22 | 15°54 | 22°16 | S 25 |
| S 26 | 20 15 40 | 3°34'06 | 5♄ 6 | 21° 3 | 9°31 | 9°12 | 3° 3 | 17°57 | 26°57 | 23°25 | 11° 5 | 6°18 | 6°19 | 16° 1 | 22°13 | S 26 |
| M27 | 20 19 36 | 4°31'23 | 18°31 | 22°48 | 10°42 | 9°46 | 3°17 | 18° 5 | 26°56 | 23°27 | 11° 6 | 6°17 | 6°16 | 16° 8 | 22° 9 | M27 |
| T 28 | 20 23 33 | 5°28'41 | 2♂15 | 24°30 | 11°53 | 10°21 | 3°30 | 18°12 | 26°54 | 23°28 | 11° 6 | 6°D17 | 6°13 | 16°14 | 22° 6 | T 28 |
| W29 | 20 27 29 | 6°26'00 | 16°17 | 26°11 | 13° 3 | 10°56 | 3°44 | 18°20 | 26°53 | 23°30 | 11° 6 | 6°R17 | 6°10 | 16°21 | 22° 3 | W29 |
| T 30 | 20 31 26 | 7°23'19 | 0♂33 | 27°51 | 14°14 | 11°31 | 3°57 | 18°28 | 26°52 | 23°31 | 11° 6 | 6°17 | 6° 6 | 16°28 | 22° 0 | T 30 |
| F 31 | 20 35 22 | 8♂20'38 | 14♂58 | 29♂28 | 15♂24 | 12♂ 6 | 4♂10 | 18♂35 | 26♂51 | 23♂33 | 11♂ 7 | 6♂17 | 6♂ 3 | 16♂34 | 21♂57 | F 31 |

Delta T = 19m54s

AUGUST 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|------|-------|--------|------|
| S 1 | 20 39 19 | 9♂17'57 | 29♂27 | 1♂ 3 | 16♂34 | 12♂41 | 4♂24 | 18♂43 | 26°R49 | 23♂35 | 11♂ 7 | 6°R17 | 6♂ 0 | 16♂41 | 21°R54 | S 1 |
| S 2 | 20 43 15 | 10°15'17 | 13♂54 | 2°37 | 17°45 | 13°16 | 4°37 | 18°51 | 26♂48 | 23°36 | 11° 7 | 6♂17 | 5°57 | 16°48 | 21°50 | S 2 |
| M 3 | 20 47 12 | 11°12'37 | 28°17 | 4° 8 | 18°55 | 13°52 | 4°51 | 18°58 | 26°46 | 23°38 | 11° 7 | 6°16 | 5°54 | 16°55 | 21°47 | M 3 |
| T 4 | 20 51 9 | 12° 9'57 | 12♂30 | 5°38 | 20° 5 | 14°27 | 5° 4 | 19° 6 | 26°45 | 23°40 | 11° 7 | 6°D16 | 5°51 | 17° 1 | 21°44 | T 4 |
| W 5 | 20 55 5 | 13° 7'18 | 26°32 | 7° 6 | 21°15 | 15° 3 | 5°17 | 19°14 | 26°43 | 23°42 | 11° 8 | 6°16 | 5°47 | 17° 8 | 21°41 | W 5 |
| T 6 | 20 59 2 | 14° 4'39 | 10♂22 | 8°31 | 22°25 | 15°38 | 5°31 | 19°21 | 26°42 | 23°44 | 11° 8 | 6°17 | 5°44 | 17°15 | 21°37 | T 6 |
| F 7 | 21 2 58 | 15° 2'01 | 23°58 | 9°55 | 23°35 | 16°14 | 5°44 | 19°29 | 26°40 | 23°45 | 11° 8 | 6°18 | 5°41 | 17°21 | 21°34 | F 7 |
| S 8 | 21 6 55 | 15°59'23 | 7♄20 | 11°17 | 24°45 | 16°50 | 5°57 | 19°37 | 26°39 | 23°47 | 11° 8 | 6°18 | 5°38 | 17°28 | 21°31 | S 8 |
| S 9 | 21 10 51 | 16°56'45 | 20°29 | 12°37 | 25°54 | 17°26 | 6°11 | 19°45 | 26°37 | 23°49 | 11° 8 | 6°19 | 5°35 | 17°35 | 21°28 | S 9 |
| M10 | 21 14 48 | 17°54'08 | 3♂24 | 13°55 | 27° 4 | 18° 2 | 6°24 | 19°52 | 26°35 | 23°51 | 11°R 8 | 6°R19 | 5°32 | 17°42 | 21°24 | M10 |
| T 11 | 21 18 44 | 18°51'32 | 16° 6 | 15°10 | 28°13 | 18°38 | 6°37 | 20° 0 | 26°34 | 23°53 | 11° 8 | 6°19 | 5°28 | 17°48 | 21°21 | T 11 |
| W12 | 21 22 41 | 19°48'57 | 28°36 | 16°24 | 29°23 | 19°15 | 6°51 | 20° 8 | 26°32 | 23°55 | 11° 8 | 6°18 | 5°25 | 17°55 | 21°18 | W12 |
| T 13 | 21 26 38 | 20°46'23 | 10♂54 | 17°35 | 0♂32 | 19°51 | 7° 4 | 20°16 | 26°30 | 23°57 | 11° 8 | 6°17 | 5°22 | 18° 2 | 21°14 | T 13 |
| F 14 | 21 30 34 | 21°43'49 | 23° 2 | 18°44 | 1°41 | 20°27 | 7°17 | 20°23 | 26°28 | 23°58 | 11° 8 | 6°15 | 5°19 | 18° 8 | 21°11 | F 14 |
| S 15 | 21 34 31 | 22°41'17 | 5♂ 2 | 19°51 | 2°51 | 21° 4 | 7°30 | 20°31 | 26°27 | 24° 0 | 11° 8 | 6°12 | 5°16 | 18°15 | 21° 8 | S 15 |
| S 16 | 21 38 27 | 23°38'45 | 16°56 | 20°55 | 4° 0 | 21°41 | 7°43 | 20°39 | 26°25 | 24° 2 | 11° 8 | 6°10 | 5°12 | 18°22 | 21° 4 | S 16 |
| M17 | 21 42 24 | 24°36'15 | 28°48 | 21°56 | 5° 9 | 22°17 | 7°56 | 20°46 | 26°23 | 24° 4 | 11° 7 | 6° 8 | 5° 9 | 18°29 | 21° 1 | M17 |
| T 18 | 21 46 20 | 25°33'46 | 10♂42 | 22°55 | 6°17 | 22°54 | 8°10 | 20°54 | 26°21 | 24° 6 | 11° 7 | 6° 6 | 5° 6 | 18°35 | 20°58 | T 18 |
| W19 | 21 50 17 | 26°31'18 | 22°41 | 23°51 | 7°26 | 23°31 | 8°23 | 21° 2 | 26°19 | 24° 8 | 11° 7 | 6°D 5 | 5° 3 | 18°42 | 20°55 | W19 |
| T 20 | 21 54 13 | 27°28'52 | 4♂51 | 24°44 | 8°35 | 24° 8 | 8°36 | 21°10 | 26°17 | 24°10 | 11° 7 | 6° 6 | 5° 0 | 18°49 | 20°51 | T 20 |
| F 21 | 21 58 10 | 28°26'27 | 17°16 | 25°33 | 9°43 | 24°45 | 8°49 | 21°17 | 26°15 | 24°12 | 11° 7 | 6° 6 | 4°57 | 18°55 | 20°48 | F 21 |
| S 22 | 22 2 7 | 29°24'04 | 29°59 | 26°20 | 10°52 | 25°23 | 9° 2 | 21°25 | 26°13 | 24°14 | 11° 6 | 6° 8 | 4°53 | 19° 2 | 20°45 | S 22 |
| S 23 | 22 6 3 | 0♂21'42 | 13♄ 6 | 27° 3 | 12° 0 | 26° 0 | 9°15 | 21°33 | 26°11 | 24°17 | 11° 6 | 6° 9 | 4°50 | 19° 9 | 20°41 | S 23 |
| M24 | 22 10 0 | 1°19'21 | 26°37 | 27°42 | 13° 9 | 26°37 | 9°28 | 21°40 | 26° 9 | 24°19 | 11° 6 | 6°10 | 4°47 | 19°16 | 20°38 | M24 |
| T 25 | 22 13 56 | 2°17'02 | 10♂33 | 28°18 | 14°17 | 27°15 | 9°40 | 21°48 | 26° 7 | 24°21 | 11° 6 | 6°R11 | 4°44 | 19°22 | 20°35 | T 25 |
| W26 | 22 17 53 | 3°14'44 | 24°53 | 28°50 | 15°25 | 27°53 | 9°53 | 21°56 | 26° 4 | 24°23 | 11° 5 | 6°10 | 4°41 | 19°29 | 20°32 | W26 |
| T 27 | 22 21 49 | 4°12'27 | 9♂13 | 29°17 | 16°33 | 28°30 | 10° 6 | 22° 3 | 26° 2 | 24°25 | 11° 5 | 6° 7 | 4°37 | 19°36 | 20°29 | T 27 |
| F 28 | 22 25 46 | 5°10'12 | 24°22 | 29°40 | 17°40 | 29° 8 | 10°19 | 22°11 | 26° 0 | 24°27 | 11° 5 | 6° 4 | 4°34 | 19°42 | 20°26 | F 28 |
| S 29 | 22 29 42 | 6° 7'57 | 9♂17 | 29°58 | 18°48 | 29°46 | 10°32 | 22°18 | 25°58 | 24°29 | 11° 4 | 6° 0 | 4°31 | 19°49 | 20°22 | S 29 |
| S 30 | 22 33 39 | 7° 5'44 | 24° 8 | 0♂11 | 19°56 | 0♂24 | 10°44 | 22°26 | 25°56 | 24°31 | 11° 4 | 5°56 | 4°28 | 19°56 | 20°19 | S 30 |
| M31 | 22 37 35 | 8♂ 3'32 | 8♂47 | 0♂18 | 21♂ 3 | 1♂ 2 | 10♂57 | 22♂34 | 25♂53 | 24♂33 | 11♂ 3 | 5♂52 | 4♂25 | 20♂3 | 20°16 | M31 |

Delta T = 19m55s

ASTRODIENST EPHEMERIS for the year 2595
geocentric

SEPTEMBER 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|--------|-------|------|-------|--------|------|-----|
| T 1 | 22 41 32 | 9♎ 1'21 | 23♌10 | 0°R21 | 22♌11 | 1♌40 | 11♌ 9 | 22♌41 | 25°R51 | 24♎36 | 11°R 3 | 5°R50 | 4♌22 | 20♍ 9 | 20°R13 | T 1 | |
| W 2 | 22 45 29 | 9°59'11 | 7♌12 | 0♌18 | 23°18 | 2°19 | 11°22 | 22°49 | 25♎49 | 24°38 | 11♎ 3 | 5°D49 | 4°18 | 20°16 | 20♌10 | W 2 | |
| T 3 | 22 49 25 | 10°57'02 | 20°54 | 0° 9 | 24°25 | 2°57 | 11°35 | 22°56 | 25°47 | 24°40 | 11° 2 | 5♌49 | 4°15 | 20°23 | 20° 7 | T 3 | |
| F 4 | 22 53 22 | 11°54'54 | 4♌17 | 29♎54 | 25°32 | 3°35 | 11°47 | 23° 4 | 25°44 | 24°42 | 11° 2 | 5°50 | 4°12 | 20°30 | 20° 4 | F 4 | |
| S 5 | 22 57 18 | 12°52'48 | 17°21 | 29°33 | 26°38 | 4°14 | 11°59 | 23°11 | 25°42 | 24°44 | 11° 1 | 5°52 | 4° 9 | 20°36 | 20° 1 | S 5 | |
| S 6 | 23 1 15 | 13°50'43 | 0♌10 | 29° 6 | 27°45 | 4°53 | 12°12 | 23°19 | 25°40 | 24°46 | 11° 1 | 5°R53 | 4° 6 | 20°43 | 19°58 | S 6 | |
| M 7 | 23 5 11 | 14°48'39 | 12°46 | 28°33 | 28°51 | 5°31 | 12°24 | 23°26 | 25°37 | 24°49 | 11° 0 | 5°53 | 4° 3 | 20°50 | 19°55 | M 7 | |
| T 8 | 23 9 8 | 15°46'36 | 25°10 | 27°55 | 29°58 | 6°10 | 12°36 | 23°33 | 25°35 | 24°51 | 10°59 | 5°51 | 3°59 | 20°56 | 19°52 | T 8 | |
| W 9 | 23 13 4 | 16°44'35 | 7♎25 | 27°11 | 1♌ 4 | 6°49 | 12°48 | 23°41 | 25°33 | 24°53 | 10°59 | 5°47 | 3°56 | 21° 3 | 19°50 | W 9 | |
| T 10 | 23 17 1 | 17°42'36 | 19°33 | 26°23 | 2°10 | 7°28 | 13° 1 | 23°48 | 25°30 | 24°55 | 10°58 | 5°42 | 3°53 | 21°10 | 19°47 | T 10 | |
| F 11 | 23 20 58 | 18°40'37 | 1♍34 | 25°31 | 3°16 | 8° 7 | 13°13 | 23°55 | 25°28 | 24°57 | 10°58 | 5°34 | 3°50 | 21°17 | 19°44 | F 11 | |
| S 12 | 23 24 54 | 19°38'41 | 13°30 | 24°36 | 4°21 | 8°46 | 13°25 | 24° 3 | 25°26 | 25° 0 | 10°57 | 5°26 | 3°47 | 21°23 | 19°41 | S 12 | |
| S 13 | 23 28 51 | 20°36'46 | 25°22 | 23°39 | 5°27 | 9°25 | 13°37 | 24°10 | 25°23 | 25° 2 | 10°56 | 5°18 | 3°43 | 21°30 | 19°39 | S 13 | |
| M14 | 23 32 47 | 21°34'53 | 7♎14 | 22°41 | 6°32 | 10° 5 | 13°48 | 24°17 | 25°21 | 25° 4 | 10°56 | 5°10 | 3°40 | 21°37 | 19°36 | M14 | |
| T 15 | 23 36 44 | 22°33'02 | 19° 7 | 21°43 | 7°37 | 10°44 | 14° 0 | 24°24 | 25°18 | 25° 6 | 10°55 | 5° 4 | 3°37 | 21°43 | 19°34 | T 15 | |
| W16 | 23 40 40 | 23°31'13 | 1♎ 5 | 20°46 | 8°42 | 11°23 | 14°12 | 24°31 | 25°16 | 25° 9 | 10°54 | 4°59 | 3°34 | 21°50 | 19°31 | W16 | |
| T 17 | 23 44 37 | 24°29'26 | 13°13 | 19°53 | 9°46 | 12° 3 | 14°24 | 24°38 | 25°14 | 25°11 | 10°54 | 4°56 | 3°31 | 21°57 | 19°29 | T 17 | |
| F 18 | 23 48 33 | 25°27'41 | 25°34 | 19° 3 | 10°51 | 12°43 | 14°35 | 24°45 | 25°11 | 25°13 | 10°53 | 4°D55 | 3°28 | 22° 4 | 19°26 | F 18 | |
| S 19 | 23 52 30 | 26°25'58 | 8♎13 | 18°19 | 11°55 | 13°22 | 14°47 | 24°52 | 25° 9 | 25°15 | 10°52 | 4°56 | 3°24 | 22°10 | 19°24 | S 19 | |
| S 20 | 23 56 27 | 27°24'17 | 21°14 | 17°42 | 12°59 | 14° 2 | 14°58 | 24°59 | 25° 6 | 25°17 | 10°51 | 4°57 | 3°21 | 22°17 | 19°21 | S 20 | |
| M21 | 0 0 23 | 28°22'38 | 4♌42 | 17°12 | 14° 3 | 14°42 | 15°10 | 25° 6 | 25° 4 | 25°20 | 10°51 | 4°R58 | 3°18 | 22°24 | 19°19 | M21 | |
| T 22 | 0 4 20 | 29°21'01 | 18°38 | 16°50 | 15° 7 | 15°22 | 15°21 | 25°13 | 25° 2 | 25°22 | 10°50 | 4°57 | 3°15 | 22°30 | 19°17 | T 22 | |
| W23 | 0 8 16 | 0♌19'26 | 3♎ 3 | 16°36 | 16°10 | 16° 2 | 15°32 | 25°20 | 24°59 | 25°24 | 10°49 | 4°54 | 3°12 | 22°37 | 19°15 | W23 | |
| T 24 | 0 12 13 | 1°17'53 | 17°51 | 16°D32 | 17°13 | 16°42 | 15°44 | 25°27 | 24°57 | 25°26 | 10°48 | 4°49 | 3° 9 | 22°44 | 19°13 | T 24 | |
| F 25 | 0 16 9 | 2°16'22 | 2♌58 | 16°37 | 18°16 | 17°22 | 15°55 | 25°33 | 24°54 | 25°29 | 10°47 | 4°41 | 3° 5 | 22°51 | 19°10 | F 25 | |
| S 26 | 0 20 6 | 3°14'52 | 18°12 | 16°52 | 19°19 | 18° 3 | 16° 6 | 25°40 | 24°52 | 25°31 | 10°46 | 4°33 | 3° 2 | 22°57 | 19° 8 | S 26 | |
| S 27 | 0 24 2 | 4°13'25 | 3♌24 | 17°16 | 20°21 | 18°43 | 16°17 | 25°47 | 24°50 | 25°33 | 10°46 | 4°24 | 2°59 | 23° 4 | 19° 6 | S 27 | |
| M28 | 0 27 59 | 5°11'59 | 18°23 | 17°49 | 21°23 | 19°24 | 16°27 | 25°53 | 24°47 | 25°35 | 10°45 | 4°16 | 2°56 | 23°11 | 19° 5 | M28 | |
| T 29 | 0 31 55 | 6°10'35 | 3♌ 7 | 18°30 | 22°25 | 20° 4 | 16°38 | 26° 0 | 24°45 | 25°37 | 10°44 | 4°10 | 2°53 | 23°18 | 19° 3 | T 29 | |
| W30 | 0 35 52 | 7♌ 9'12 | 17♌12 | 19♎20 | 23♌27 | 20♌45 | 16♌49 | 26♌ 6 | 24♎43 | 25♎40 | 10♎43 | 4♌ 6 | 2♌49 | 23♍24 | 19♌ 1 | W30 | |

Delta T = 19m55s

OCTOBER 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|------|-------|--------|------|-----|
| T 1 | 0 39 49 | 8♌ 7'51 | 0♎57 | 20♎18 | 24♌28 | 21♌25 | 16♌59 | 26♌13 | 24°R40 | 25♎42 | 10°R42 | 4°R 4 | 2♌46 | 23♍31 | 18°R59 | T 1 | |
| F 2 | 0 43 45 | 9° 6'32 | 14°16 | 21°24 | 25°29 | 22° 6 | 17°10 | 26°19 | 24♎38 | 25°44 | 10♎41 | 4°D 4 | 2°43 | 23°38 | 18♌57 | F 2 | |
| S 3 | 0 47 42 | 10° 5'14 | 27°13 | 22°35 | 26°30 | 22°47 | 17°20 | 26°26 | 24°36 | 25°46 | 10°40 | 4♌ 4 | 2°40 | 23°44 | 18°56 | S 3 | |
| S 4 | 0 51 38 | 11° 3'58 | 9♌51 | 23°53 | 27°30 | 23°28 | 17°31 | 26°32 | 24°33 | 25°48 | 10°39 | 4°R 4 | 2°37 | 23°51 | 18°54 | S 4 | |
| M 5 | 0 55 35 | 12° 2'44 | 22°14 | 25°16 | 28°30 | 24° 9 | 17°41 | 26°38 | 24°31 | 25°50 | 10°38 | 4° 3 | 2°34 | 23°58 | 18°53 | M 5 | |
| T 6 | 0 59 31 | 13° 1'31 | 4♎26 | 26°44 | 29°30 | 24°50 | 17°51 | 26°44 | 24°29 | 25°53 | 10°37 | 3°59 | 2°30 | 24° 5 | 18°51 | T 6 | |
| W 7 | 1 3 28 | 14° 0'20 | 16°30 | 28°15 | 0♎29 | 25°31 | 18° 1 | 26°50 | 24°27 | 25°55 | 10°36 | 3°52 | 2°27 | 24°11 | 18°50 | W 7 | |
| T 8 | 1 7 24 | 14°59'11 | 28°29 | 29°50 | 1°28 | 26°13 | 18°11 | 26°56 | 24°25 | 25°57 | 10°35 | 3°43 | 2°24 | 24°18 | 18°49 | T 8 | |
| F 9 | 1 11 21 | 15°58'04 | 10♍24 | 1♌28 | 2°26 | 26°54 | 18°21 | 27° 2 | 24°22 | 25°59 | 10°34 | 3°31 | 2°21 | 24°25 | 18°47 | F 9 | |
| S 10 | 1 15 18 | 16°56'59 | 22°17 | 3° 9 | 3°24 | 27°35 | 18°30 | 27° 8 | 24°20 | 26° 1 | 10°33 | 3°18 | 2°18 | 24°31 | 18°46 | S 10 | |
| S 11 | 1 19 14 | 17°55'56 | 4♎ 9 | 4°51 | 4°22 | 28°17 | 18°40 | 27°14 | 24°18 | 26° 3 | 10°32 | 3° 4 | 2°14 | 24°38 | 18°45 | S 11 | |
| M12 | 1 23 11 | 18°54'55 | 16° 3 | 6°35 | 5°19 | 28°58 | 18°50 | 27°20 | 24°16 | 26° 5 | 10°31 | 2°51 | 2°11 | 24°45 | 18°44 | M12 | |
| T 13 | 1 27 7 | 19°53'56 | 27°58 | 8°19 | 6°16 | 29°40 | 18°59 | 27°26 | 24°14 | 26° 7 | 10°30 | 2°40 | 2° 8 | 24°52 | 18°43 | T 13 | |
| W14 | 1 31 4 | 20°52'59 | 9♎59 | 10° 5 | 7°12 | 0♎22 | 19° 8 | 27°31 | 24°12 | 26° 9 | 10°29 | 2°31 | 2° 5 | 24°58 | 18°42 | W14 | |
| T 15 | 1 35 0 | 21°52'04 | 22° 7 | 11°51 | 8° 8 | 1° 3 | 19°17 | 27°37 | 24°10 | 26°11 | 10°28 | 2°25 | 2° 2 | 25° 5 | 18°41 | T 15 | |
| F 16 | 1 38 57 | 22°51'12 | 4♎27 | 13°37 | 9° 3 | 1°45 | 19°26 | 27°42 | 24° 8 | 26°13 | 10°27 | 2°22 | 1°59 | 25°12 | 18°40 | F 16 | |
| S 17 | 1 42 53 | 23°50'22 | 17° 3 | 15°24 | 9°58 | 2°27 | 19°35 | 27°48 | 24° 6 | 26°16 | 10°26 | 2°21 | 1°55 | 25°19 | 18°40 | S 17 | |
| S 18 | 1 46 50 | 24°49'34 | 29°59 | 17°10 | 10°52 | 3° 9 | 19°44 | 27°53 | 24° 4 | 26°18 | 10°25 | 2°21 | 1°52 | 25°25 | 18°39 | S 18 | |
| M19 | 1 50 47 | 25°48'49 | 13♌19 | 18°57 | 11°46 | 3°51 | 19°53 | 27°59 | 24° 2 | 26°20 | 10°24 | 2°20 | 1°49 | 25°32 | 18°38 | M19 | |
| T 20 | 1 54 43 | 26°48'05 | 27° 6 | 20°43 | 12°39 | 4°33 | 20° 2 | 28° 4 | 24° 0 | 26°22 | 10°23 | 2°19 | 1°46 | 25°39 | 18°38 | T 20 | |
| W21 | 1 58 40 | 27°47'24 | 11♎22 | 22°28 | 13°31 | 5°16 | 20°10 | 28° 9 | 23°58 | 26°23 | 10°22 | 2°15 | 1°43 | 25°45 | 18°37 | W21 | |
| T 22 | 2 2 36 | 28°46'46 | 26° 6 | 24°13 | 14°23 | 5°58 | 20°18 | 28°14 | 23°56 | 26°25 | 10°20 | 2° 8 | 1°40 | 25°52 | 18°37 | T 22 | |
| F 23 | 2 6 33 | 29°46'09 | 11♌11 | 25°58 | 15°14 | 6°40 | 20°27 | 28°19 | 23°54 | 26°27 | 10°19 | 1°59 | 1°36 | 25°59 | 18°37 | F 23 | |
| S 24 | 2 10 29 | 0♌45'34 | 26°29 | 27°42 | 16° 5 | 7°23 | 20°35 | 28°24 | 23°53 | 26°29 | 10°18 | 1°48 | 1°33 | 26° 6 | 18°36 | S 24 | |
| S 25 | 2 14 26 | 1°45'02 | 11♌50 | 29°25 | 16°55 | 8° 5 | 20°43 | 28°29 | 23°51 | 26°31 | 10°17 | 1°37 | 1°30 | 26°12 | 18°36 | S 25 | |
| M26 | 2 18 22 | 2°44'32 | 27° 0 | 1♌ 8 | 17°44 | 8°48 | 20°50 | 28°34 | 23°49 | 26°33 | 10°16 | 1°26 | 1°27 | 26°19 | 18°36 | M26 | |
| T 27 | 2 22 19 | 3°44'03 | 11♌50 | 2°50 | 18°32 | 9°31 | 20°58 | 28°38 | 23°47 | 26°35 | 10°15 | 1°18 | 1°24 | 26°26 | 18°D36 | T 27 | |
| W28 | 2 26 16 | 4°43'36 | 26°14 | 4°32 | 19°19 | 10°13 | 21° 6 | 28°43 | 23°46 | 26°37 | 10°14 | 1°12 | 1°20 | 26°32 | 18°36 | W28 | |
| T 29 | 2 30 12 | 5°43'12 | 10♎ 7 | 6°13 | 20° 6 | 10°56 | 21°13 | 28°47 | 23°44 | 26°39 | 10°13 | 1° 9 | 1°17 | 26°39 | 18°36 | T 29 | |
| F 30 | 2 34 9 | 6°42'48 | 23°32 | 7°53 | 20°52 | 11°39 | 21°20 | 28°52 | 23°43 | 26°40 | 10°11 | 1° 7 | 1°14 | 26°46 | 18°36 | F 30 | |
| S 31 | 2 38 5 | 7♌42'27 | 6♌31 | 9♌33 | 21♌37 | 12♌22 | 21♌27 | 28♌56 | 23♎41 | 26♎42 | 10♎10 | 1♌ 7 | 1♌11 | 26♍53 | 18♌36 | S 31 | |

Delta T = 19m55s

ASTRODIENST EPHEMERIS for the year 2595
geocentric

NOVEMBER 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|------|-----|
| S 1 | 2 42 2 | 8♁42'07 | 19♁ 7 | 11♁12 | 22♁21 | 13♁ 5 | 21♁34 | 29♁ 0 | 23°R40 | 26♁44 | 10°R 9 | 1°R 7 | 1♁ 8 | 26♁59 | 18♁37 | S 1 | |
| M 2 | 2 45 58 | 9°41'48 | 1♁26 | 12°50 | 23° 4 | 13°48 | 21°41 | 29° 4 | 23♁38 | 26°46 | 10♁ 8 | 1♁ 5 | 1° 5 | 27° 6 | 18°37 | M 2 | |
| T 3 | 2 49 55 | 10°41'32 | 13°32 | 14°28 | 23°46 | 14°31 | 21°48 | 29° 9 | 23°37 | 26°47 | 10° 7 | 1° 1 | 1° 1 | 27°13 | 18°38 | T 3 | |
| W 4 | 2 53 51 | 11°41'17 | 25°31 | 16° 6 | 24°27 | 15°15 | 21°54 | 29°12 | 23°35 | 26°49 | 10° 6 | 0°55 | 0°58 | 27°20 | 18°38 | W 4 | |
| T 5 | 2 57 48 | 12°41'03 | 7♁24 | 17°42 | 25° 6 | 15°58 | 22° 1 | 29°16 | 23°34 | 26°51 | 10° 5 | 0°45 | 0°55 | 27°26 | 18°39 | T 5 | |
| F 6 | 3 1 45 | 13°40'52 | 19°16 | 19°19 | 25°45 | 16°41 | 22° 7 | 29°20 | 23°33 | 26°53 | 10° 4 | 0°33 | 0°52 | 27°33 | 18°39 | F 6 | |
| S 7 | 3 5 41 | 14°40'42 | 1♁ 9 | 20°54 | 26°22 | 17°25 | 22°13 | 29°24 | 23°32 | 26°54 | 10° 2 | 0°19 | 0°49 | 27°40 | 18°40 | S 7 | |
| S 8 | 3 9 38 | 15°40'35 | 13° 3 | 22°30 | 26°58 | 18° 8 | 22°19 | 29°27 | 23°30 | 26°56 | 10° 1 | 0° 5 | 0°46 | 27°46 | 18°41 | S 8 | |
| M 9 | 3 13 34 | 16°40'29 | 25° 2 | 24° 4 | 27°33 | 18°52 | 22°25 | 29°31 | 23°29 | 26°57 | 10° 0 | 29♁52 | 0°42 | 27°53 | 18°42 | M 9 | |
| T 10 | 3 17 31 | 17°40'25 | 7♁ 4 | 25°39 | 28° 7 | 19°35 | 22°30 | 29°34 | 23°28 | 26°59 | 9°59 | 29°40 | 0°39 | 28° 0 | 18°43 | T 10 | |
| W11 | 3 21 27 | 18°40'23 | 19°13 | 27°12 | 28°39 | 20°19 | 22°36 | 29°38 | 23°27 | 27° 0 | 9°58 | 29°31 | 0°36 | 28° 7 | 18°44 | W11 | |
| T 12 | 3 25 24 | 19°40'23 | 1♁30 | 28°46 | 29° 9 | 21° 3 | 22°41 | 29°41 | 23°26 | 27° 2 | 9°57 | 29°25 | 0°33 | 28°13 | 18°45 | T 12 | |
| F 13 | 3 29 20 | 20°40'25 | 13°56 | 0♁19 | 29°38 | 21°47 | 22°46 | 29°44 | 23°25 | 27° 3 | 9°56 | 29°22 | 0°30 | 28°20 | 18°46 | F 13 | |
| S 14 | 3 33 17 | 21°40'29 | 26°36 | 1°51 | 0♁ 6 | 22°31 | 22°51 | 29°47 | 23°24 | 27° 5 | 9°55 | 29°D20 | 0°26 | 28°27 | 18°47 | S 14 | |
| S 15 | 3 37 14 | 22°40'35 | 9♁32 | 3°24 | 0°31 | 23°15 | 22°56 | 29°50 | 23°23 | 27° 6 | 9°53 | 29°21 | 0°23 | 28°33 | 18°48 | S 15 | |
| M16 | 3 41 10 | 23°40'43 | 22°47 | 4°55 | 0°55 | 23°59 | 23° 1 | 29°53 | 23°22 | 27° 8 | 9°52 | 29°R21 | 0°20 | 28°40 | 18°49 | M16 | |
| T 17 | 3 45 7 | 24°40'54 | 6♁26 | 6°27 | 1°18 | 24°43 | 23° 5 | 29°56 | 23°22 | 27° 9 | 9°51 | 29°21 | 0°17 | 28°47 | 18°51 | T 17 | |
| W18 | 3 49 3 | 25°41'06 | 20°29 | 7°58 | 1°38 | 25°27 | 23° 9 | 29°58 | 23°21 | 27°11 | 9°50 | 29°18 | 0°14 | 28°54 | 18°52 | W18 | |
| T 19 | 3 53 0 | 26°41'20 | 4♁56 | 9°28 | 1°57 | 26°11 | 23°13 | 0♁ 1 | 23°20 | 27°12 | 9°49 | 29°13 | 0°11 | 29° 0 | 18°54 | T 19 | |
| F 20 | 3 56 56 | 27°41'36 | 19°45 | 10°59 | 2°13 | 26°55 | 23°17 | 0° 3 | 23°19 | 27°13 | 9°48 | 29° 6 | 0° 7 | 29° 7 | 18°55 | F 20 | |
| S 21 | 4 0 53 | 28°41'55 | 4♁49 | 12°29 | 2°28 | 27°40 | 23°21 | 0° 6 | 23°19 | 27°14 | 9°47 | 28°57 | 0° 4 | 29°14 | 18°57 | S 21 | |
| S 22 | 4 4 49 | 29°42'15 | 19°59 | 13°58 | 2°40 | 28°24 | 23°25 | 0° 8 | 23°18 | 27°16 | 9°46 | 28°47 | 0° 1 | 29°21 | 18°59 | S 22 | |
| M23 | 4 8 46 | 0♁42'36 | 5♁ 4 | 15°27 | 2°51 | 29° 9 | 23°28 | 0°10 | 23°18 | 27°17 | 9°45 | 28°38 | 29♁58 | 29°27 | 19° 1 | M23 | |
| T 24 | 4 12 43 | 1°43'00 | 19°55 | 16°56 | 2°59 | 29°53 | 23°31 | 0°12 | 23°17 | 27°18 | 9°44 | 28°31 | 29°55 | 29°34 | 19° 2 | T 24 | |
| W25 | 4 16 39 | 2°43'25 | 4♁23 | 18°24 | 3° 5 | 0♁38 | 23°34 | 0°14 | 23°17 | 27°19 | 9°43 | 28°26 | 29°52 | 29°41 | 19° 4 | W25 | |
| T 26 | 4 20 36 | 3°43'52 | 18°24 | 19°52 | 3° 9 | 1°23 | 23°37 | 0°15 | 23°17 | 27°20 | 9°42 | 28°24 | 29°48 | 29°47 | 19° 6 | T 26 | |
| F 27 | 4 24 32 | 4°44'19 | 1♁56 | 21°19 | 3°R10 | 2° 7 | 23°40 | 0°17 | 23°16 | 27°22 | 9°41 | 28°D23 | 29°45 | 29°54 | 19° 8 | F 27 | |
| S 28 | 4 28 29 | 5°44'48 | 15° 1 | 22°46 | 3° 9 | 2°52 | 23°42 | 0°19 | 23°16 | 27°23 | 9°40 | 28°24 | 29°42 | 0♁ 1 | 19°11 | S 28 | |
| S 29 | 4 32 25 | 6°45'19 | 27°42 | 24°12 | 3° 5 | 3°37 | 23°44 | 0°20 | 23°16 | 27°24 | 9°39 | 28°25 | 29°39 | 0° 8 | 19°13 | S 29 | |
| M30 | 4 36 22 | 7♁45'50 | 10♁ 3 | 25♁37 | 2♁59 | 4♁22 | 23♁47 | 0♁21 | 23♁16 | 27♁25 | 9♁38 | 28°R26 | 29♁36 | 0♁14 | 19♁15 | M30 | |

Delta T = 19m56s

DECEMBER 2595

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|--------|-------|--------|--------|-------|--------|-------|------|-------|------|-----|
| T 1 | 4 40 18 | 8♁46'23 | 22♁10 | 27♁ 2 | 2°R50 | 5♁ 7 | 23♁48 | 0♁23 | 23°R16 | 27♁26 | 9°R37 | 28°R25 | 29♁32 | 0♁21 | 19♁17 | T 1 | |
| W 2 | 4 44 15 | 9°46'56 | 4♁ 8 | 28°26 | 2♁39 | 5°52 | 23°50 | 0°24 | 23♁15 | 27°27 | 9♁36 | 28♁21 | 29°29 | 0°28 | 19°20 | W 2 | |
| T 3 | 4 48 12 | 10°47'31 | 16° 0 | 29°49 | 2°26 | 6°37 | 23°52 | 0°25 | 23°D15 | 27°28 | 9°35 | 28°16 | 29°26 | 0°35 | 19°22 | T 3 | |
| F 4 | 4 52 8 | 11°48'08 | 27°52 | 1♁11 | 2°10 | 7°22 | 23°53 | 0°26 | 23°16 | 27°28 | 9°34 | 28° 9 | 29°23 | 0°41 | 19°25 | F 4 | |
| S 5 | 4 56 5 | 12°48'45 | 9♁46 | 2°31 | 1°52 | 8° 7 | 23°54 | 0°26 | 23°16 | 27°29 | 9°33 | 28° 0 | 29°20 | 0°48 | 19°27 | S 5 | |
| S 6 | 5 0 1 | 13°49'24 | 21°44 | 3°51 | 1°31 | 8°53 | 23°55 | 0°27 | 23°16 | 27°30 | 9°32 | 27°51 | 29°17 | 0°55 | 19°30 | S 6 | |
| M 7 | 5 3 58 | 14°50'03 | 3♁50 | 5° 8 | 1° 8 | 9°38 | 23°56 | 0°28 | 23°16 | 27°31 | 9°31 | 27°43 | 29°13 | 1° 1 | 19°32 | M 7 | |
| T 8 | 5 7 54 | 15°50'45 | 16° 3 | 6°24 | 0°43 | 10°23 | 23°56 | 0°28 | 23°16 | 27°32 | 9°30 | 27°36 | 29°10 | 1° 8 | 19°35 | T 8 | |
| W 9 | 5 11 51 | 16°51'27 | 28°25 | 7°38 | 0°16 | 11° 9 | 23°57 | 0°28 | 23°17 | 27°32 | 9°29 | 27°30 | 29° 7 | 1°15 | 19°38 | W 9 | |
| T 10 | 5 15 47 | 17°52'11 | 10♁57 | 8°50 | 29♁47 | 11°54 | 23°R57 | 0°29 | 23°17 | 27°33 | 9°29 | 27°27 | 29° 4 | 1°22 | 19°41 | T 10 | |
| F 11 | 5 19 44 | 18°52'56 | 23°39 | 9°58 | 29°17 | 12°40 | 23°57 | 0°R29 | 23°17 | 27°34 | 9°28 | 27°D25 | 29° 1 | 1°28 | 19°43 | F 11 | |
| S 12 | 5 23 41 | 19°53'42 | 6♁34 | 11° 4 | 28°44 | 13°25 | 23°56 | 0°29 | 23°18 | 27°34 | 9°27 | 27°26 | 28°57 | 1°35 | 19°46 | S 12 | |
| S 13 | 5 27 37 | 20°54'30 | 19°41 | 12° 6 | 28°11 | 14°11 | 23°56 | 0°29 | 23°18 | 27°35 | 9°26 | 27°27 | 28°54 | 1°42 | 19°49 | S 13 | |
| M14 | 5 31 34 | 21°55'19 | 3♁ 3 | 13° 4 | 27°37 | 14°57 | 23°55 | 0°28 | 23°19 | 27°36 | 9°25 | 27°28 | 28°51 | 1°48 | 19°52 | M14 | |
| T 15 | 5 35 30 | 22°56'10 | 16°42 | 13°57 | 27° 1 | 15°42 | 23°54 | 0°28 | 23°19 | 27°36 | 9°24 | 27°R30 | 28°48 | 1°55 | 19°55 | T 15 | |
| W16 | 5 39 27 | 23°57'01 | 0♁37 | 14°45 | 26°25 | 16°28 | 23°53 | 0°28 | 23°20 | 27°37 | 9°24 | 27°30 | 28°45 | 2° 2 | 19°59 | W16 | |
| T 17 | 5 43 23 | 24°57'54 | 14°50 | 15°27 | 25°49 | 17°14 | 23°52 | 0°27 | 23°21 | 27°37 | 9°23 | 27°28 | 28°42 | 2° 9 | 20° 2 | T 17 | |
| F 18 | 5 47 20 | 25°58'49 | 29°17 | 16° 1 | 25°12 | 18° 0 | 23°51 | 0°26 | 23°22 | 27°37 | 9°22 | 27°25 | 28°38 | 2°15 | 20° 5 | F 18 | |
| S 19 | 5 51 16 | 26°59'44 | 13♁56 | 16°29 | 24°36 | 18°46 | 23°49 | 0°26 | 23°22 | 27°38 | 9°22 | 27°21 | 28°35 | 2°22 | 20° 8 | S 19 | |
| S 20 | 5 55 13 | 28° 0'41 | 28°41 | 16°47 | 24° 0 | 19°32 | 23°47 | 0°25 | 23°23 | 27°38 | 9°21 | 27°17 | 28°32 | 2°29 | 20°12 | S 20 | |
| M21 | 5 59 10 | 29° 1'39 | 13♁23 | 16°R56 | 23°25 | 20°18 | 23°45 | 0°24 | 23°24 | 27°38 | 9°20 | 27°12 | 28°29 | 2°36 | 20°15 | M21 | |
| T 22 | 6 3 6 | 0♁ 3'38 | 27°57 | 16°55 | 22°50 | 21° 4 | 23°43 | 0°23 | 23°25 | 27°39 | 9°19 | 27° 9 | 28°26 | 2°42 | 20°18 | T 22 | |
| W23 | 6 7 3 | 1° 3'38 | 12♁14 | 16°43 | 22°17 | 21°50 | 23°40 | 0°21 | 23°26 | 27°39 | 9°19 | 27° 7 | 28°23 | 2°49 | 20°22 | W23 | |
| T 24 | 6 10 59 | 2° 4'39 | 26°11 | 16°20 | 21°45 | 22°36 | 23°38 | 0°20 | 23°27 | 27°39 | 9°18 | 27°D 6 | 28°19 | 2°56 | 20°25 | T 24 | |
| F 25 | 6 14 56 | 3° 5'40 | 9♁44 | 15°45 | 21°15 | 23°22 | 23°35 | 0°19 | 23°28 | 27°39 | 9°18 | 27° 6 | 28°16 | 3° 2 | 20°29 | F 25 | |
| S 26 | 6 18 52 | 4° 6'41 | 22°52 | 14°59 | 20°46 | 24° 9 | 23°32 | 0°17 | 23°30 | 27°40 | 9°17 | 27° 8 | 28°13 | 3° 9 | 20°33 | S 26 | |
| S 27 | 6 22 49 | 5° 7'44 | 5♁38 | 14° 1 | 20°19 | 24°55 | 23°29 | 0°15 | 23°31 | 27°40 | 9°16 | 27° 9 | 28°10 | 3°16 | 20°36 | S 27 | |
| M28 | 6 26 46 | 6° 8'46 | 18° 5 | 12°55 | 19°54 | 25°41 | 23°25 | 0°14 | 23°32 | 27°40 | 9°16 | 27°11 | 28° 7 | 3°23 | 20°40 | M28 | |
| T 29 | 6 30 42 | 7° 9'49 | 0♁15 | 11°41 | 19°31 | 26°28 | 23°22 | 0°12 | 23°33 | 27°40 | 9°15 | 27°12 | 28° 3 | 3°29 | 20°44 | T 29 | |
| W30 | 6 34 39 | 8°10'52 | 12°15 | 10°21 | 19°10 | 27°14 | 23°18 | 0°10 | 23°35 | 27°R40 | 9°15 | 27°R12 | 28° 0 | 3°36 | 20°47 | W30 | |
| T 31 | 6 38 35 | 9♁11'55 | 24♁ 9 | 8♁58 | 18♁51 | 28♁ 1 | 23♁14 | 0♁ 8 | 23♁36 | 27♁40 | 9♁14 | 27♁11 | 27♁57 | 3♁43 | 20♁51 | T 31 | |

Delta T = 19m56s

ASTRODIENST EPHEMERIS for the year 2596
geocentric

JANUARY 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|--------|-------|--------|-------|-------|--------|-------|--------|-------|------|-------|------|-----|
| F 1 | 6 42 32 | 10♌12'59 | 6♋ 1 | 7°R36 | 18°R35 | 28♌47 | 23°R10 | 0°R 5 | 23♋38 | 27°R40 | 9°R14 | 27°R10 | 27♌54 | 3♌50 | 20♋55 | F 1 | |
| S 2 | 6 46 28 | 11°14'03 | 17°56 | 6♌16 | 18♌22 | 29°34 | 23♌ 6 | 0♎ 3 | 23°39 | 27♎40 | 9♌13 | 27♌ 7 | 27°51 | 3°56 | 20°59 | S 2 | |
| S 3 | 6 50 25 | 12°15'07 | 29°57 | 5° 2 | 18°11 | 0♎20 | 23° 1 | 0° 1 | 23°41 | 27°39 | 9°13 | 27° 5 | 27°48 | 4° 3 | 21° 3 | S 3 | |
| M 4 | 6 54 21 | 13°16'11 | 12♈ 8 | 3°54 | 18° 2 | 1° 7 | 22°57 | 29♌58 | 23°42 | 27°39 | 9°12 | 27° 3 | 27°44 | 4°10 | 21° 7 | M 4 | |
| T 5 | 6 58 18 | 14°17'16 | 24°32 | 2°56 | 17°56 | 1°53 | 22°52 | 29°56 | 23°44 | 27°39 | 9°12 | 27° 1 | 27°41 | 4°16 | 21°11 | T 5 | |
| W 6 | 7 2 15 | 15°18'21 | 7♌ 8 | 2° 8 | 17°52 | 2°40 | 22°47 | 29°53 | 23°46 | 27°39 | 9°12 | 27° 0 | 27°38 | 4°23 | 21°15 | W 6 | |
| T 7 | 7 6 11 | 16°19'26 | 19°59 | 1°30 | 17°D51 | 3°27 | 22°42 | 29°50 | 23°47 | 27°39 | 9°11 | 26°59 | 27°35 | 4°30 | 21°19 | T 7 | |
| F 8 | 7 10 8 | 17°20'32 | 3♌ 4 | 1° 2 | 17°52 | 4°14 | 22°37 | 29°47 | 23°49 | 27°38 | 9°11 | 26°D59 | 27°32 | 4°37 | 21°23 | F 8 | |
| S 9 | 7 14 4 | 18°21'37 | 16°23 | 0°45 | 17°56 | 5° 0 | 22°31 | 29°44 | 23°51 | 27°38 | 9°11 | 26°59 | 27°29 | 4°43 | 21°27 | S 9 | |
| S 10 | 7 18 1 | 19°22'43 | 29°54 | 0°D38 | 18° 2 | 5°47 | 22°26 | 29°41 | 23°53 | 27°38 | 9°10 | 27° 0 | 27°25 | 4°50 | 21°32 | S 10 | |
| M11 | 7 21 57 | 20°23'50 | 13♎36 | 0°41 | 18°10 | 6°34 | 22°20 | 29°38 | 23°55 | 27°37 | 9°10 | 27° 1 | 27°22 | 4°57 | 21°36 | M11 | |
| T 12 | 7 25 54 | 21°24'56 | 27°28 | 0°52 | 18°21 | 7°21 | 22°14 | 29°35 | 23°57 | 27°37 | 9°10 | 27° 1 | 27°19 | 5° 3 | 21°40 | T 12 | |
| W13 | 7 29 50 | 22°26'03 | 11♌29 | 1°11 | 18°34 | 8° 8 | 22° 8 | 29°32 | 23°59 | 27°36 | 9°10 | 27° 2 | 27°16 | 5°10 | 21°44 | W13 | |
| T 14 | 7 33 47 | 23°27'10 | 25°38 | 1°37 | 18°49 | 8°55 | 22° 2 | 29°28 | 24° 1 | 27°36 | 9° 9 | 27°R 2 | 27°13 | 5°17 | 21°48 | T 14 | |
| F 15 | 7 37 44 | 24°28'18 | 9♈51 | 2°10 | 19° 6 | 9°42 | 21°55 | 29°25 | 24° 3 | 27°35 | 9° 9 | 27° 2 | 27° 9 | 5°24 | 21°53 | F 15 | |
| S 16 | 7 41 40 | 25°29'26 | 24° 7 | 2°49 | 19°25 | 10°29 | 21°49 | 29°21 | 24° 5 | 27°35 | 9° 9 | 27° 1 | 27° 6 | 5°30 | 21°57 | S 16 | |
| S 17 | 7 45 37 | 26°30'34 | 8♌23 | 3°33 | 19°46 | 11°16 | 21°42 | 29°18 | 24° 7 | 27°34 | 9° 9 | 27°D 1 | 27° 3 | 5°37 | 22° 1 | S 17 | |
| M18 | 7 49 33 | 27°31'43 | 22°35 | 4°21 | 20° 9 | 12° 3 | 21°36 | 29°14 | 24° 9 | 27°34 | 9° 9 | 27° 1 | 27° 0 | 5°44 | 22° 6 | M18 | |
| T 19 | 7 53 30 | 28°32'51 | 6♌30 | 5°14 | 20°34 | 12°50 | 21°29 | 29°10 | 24°12 | 27°33 | 9° 9 | 27° 1 | 26°57 | 5°51 | 22°10 | T 19 | |
| W20 | 7 57 26 | 29°33'59 | 20°33 | 6°11 | 21° 0 | 13°37 | 21°22 | 29° 6 | 24°14 | 27°32 | 9° 9 | 27°R 2 | 26°54 | 5°57 | 22°15 | W20 | |
| T 21 | 8 1 23 | 0♋35'07 | 4♈12 | 7°11 | 21°28 | 14°24 | 21°15 | 29° 2 | 24°16 | 27°32 | 9° 9 | 27° 2 | 26°50 | 6° 4 | 22°19 | T 21 | |
| F 22 | 8 5 19 | 1°36'15 | 17°33 | 8°14 | 21°58 | 15°11 | 21° 8 | 28°58 | 24°18 | 27°31 | 9° 9 | 27° 1 | 26°47 | 6°11 | 22°24 | F 22 | |
| S 23 | 8 9 16 | 2°37'23 | 0♈36 | 9°19 | 22°30 | 15°59 | 21° 1 | 28°54 | 24°21 | 27°30 | 9°D 9 | 27° 1 | 26°44 | 6°17 | 22°28 | S 23 | |
| S 24 | 8 13 13 | 3°38'29 | 13°21 | 10°27 | 23° 2 | 16°46 | 20°53 | 28°50 | 24°23 | 27°29 | 9° 9 | 27° 0 | 26°41 | 6°24 | 22°33 | S 24 | |
| M25 | 8 17 9 | 4°39'36 | 25°48 | 11°38 | 23°37 | 17°33 | 20°46 | 28°46 | 24°26 | 27°28 | 9° 9 | 26°59 | 26°38 | 6°31 | 22°37 | M25 | |
| T 26 | 8 21 6 | 5°40'41 | 8♈ 1 | 12°50 | 24°12 | 18°20 | 20°38 | 28°42 | 24°28 | 27°27 | 9° 9 | 26°58 | 26°35 | 6°38 | 22°42 | T 26 | |
| W27 | 8 25 2 | 6°41'46 | 20° 3 | 14° 4 | 24°49 | 19° 8 | 20°31 | 28°37 | 24°31 | 27°27 | 9° 9 | 26°57 | 26°31 | 6°44 | 22°46 | W27 | |
| T 28 | 8 28 59 | 7°42'50 | 1♌58 | 15°20 | 25°28 | 19°55 | 20°23 | 28°33 | 24°33 | 27°26 | 9° 9 | 26°56 | 26°28 | 6°51 | 22°51 | T 28 | |
| F 29 | 8 32 55 | 8°43'54 | 13°50 | 16°37 | 26° 7 | 20°42 | 20°16 | 28°28 | 24°36 | 27°25 | 9° 9 | 26°D56 | 26°25 | 6°58 | 22°55 | F 29 | |
| S 30 | 8 36 52 | 9°44'56 | 25°44 | 17°55 | 26°48 | 21°30 | 20° 8 | 28°24 | 24°39 | 27°24 | 9° 9 | 26°57 | 26°22 | 7° 4 | 23° 0 | S 30 | |
| S 31 | 8 40 48 | 10♋45'58 | 7♈46 | 19♌15 | 27♌30 | 22♎17 | 20♌ 0 | 28♌19 | 24♋41 | 27♎23 | 9♌ 9 | 26♌58 | 26♌19 | 7♈11 | 23♎ 5 | S 31 | |

Delta T = 19m56s

FEBRUARY 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|-------|--------|------|--------|-------|-------|-------|------|-----|
| M 1 | 8 44 45 | 11♋46'59 | 19♈59 | 20♌36 | 28♌13 | 23♎ 4 | 19°R52 | 28°R15 | 24♋44 | 27°R22 | 9♌10 | 26♌59 | 26♌15 | 7♈18 | 23♎ 9 | M 1 | |
| T 2 | 8 48 42 | 12°47'59 | 2♌27 | 21°58 | 28°57 | 23°52 | 19♌44 | 28♌10 | 24°47 | 27♎21 | 9°10 | 27° 1 | 26°12 | 7°25 | 23°14 | T 2 | |
| W 3 | 8 52 38 | 13°48'59 | 15°14 | 23°21 | 29°42 | 24°39 | 19°36 | 28° 6 | 24°49 | 27°20 | 9°10 | 27° 2 | 26° 9 | 7°31 | 23°19 | W 3 | |
| T 4 | 8 56 35 | 14°49'57 | 28°20 | 24°45 | 0♌28 | 25°26 | 19°28 | 28° 1 | 24°52 | 27°18 | 9°10 | 27°R 2 | 26° 6 | 7°38 | 23°23 | T 4 | |
| F 5 | 9 0 31 | 15°50'54 | 11♌46 | 26°10 | 1°14 | 26°14 | 19°20 | 27°56 | 24°55 | 27°17 | 9°11 | 27° 2 | 26° 3 | 7°45 | 23°28 | F 5 | |
| S 6 | 9 4 28 | 16°51'51 | 25°30 | 27°36 | 2° 2 | 27° 1 | 19°12 | 27°52 | 24°58 | 27°16 | 9°11 | 27° 0 | 26° 0 | 7°52 | 23°33 | S 6 | |
| S 7 | 9 8 24 | 17°52'47 | 9♎30 | 29° 3 | 2°51 | 27°49 | 19° 4 | 27°47 | 25° 1 | 27°15 | 9°11 | 26°57 | 25°56 | 7°58 | 23°37 | S 7 | |
| M 8 | 9 12 21 | 18°53'41 | 23°42 | 0♋30 | 3°40 | 28°36 | 18°56 | 27°42 | 25° 4 | 27°14 | 9°12 | 26°54 | 25°53 | 8° 5 | 23°42 | M 8 | |
| T 9 | 9 16 17 | 19°54'36 | 8♌ 1 | 1°59 | 4°31 | 29°23 | 18°48 | 27°37 | 25° 7 | 27°13 | 9°12 | 26°51 | 25°50 | 8°12 | 23°47 | T 9 | |
| W10 | 9 20 14 | 20°55'29 | 22°22 | 3°28 | 5°22 | 0♈11 | 18°40 | 27°32 | 25°10 | 27°11 | 9°12 | 26°48 | 25°47 | 8°18 | 23°51 | W10 | |
| T 11 | 9 24 11 | 21°56'22 | 6♈40 | 4°58 | 6°13 | 0°58 | 18°32 | 27°27 | 25°13 | 27°10 | 9°13 | 26°46 | 25°44 | 8°25 | 23°56 | T 11 | |
| F 12 | 9 28 7 | 22°57'14 | 20°53 | 6°28 | 7° 6 | 1°46 | 18°24 | 27°23 | 25°16 | 27° 9 | 9°13 | 26°D45 | 25°41 | 8°32 | 24° 1 | F 12 | |
| S 13 | 9 32 4 | 23°58'06 | 4♌59 | 8° 0 | 7°59 | 2°33 | 18°16 | 27°18 | 25°19 | 27° 7 | 9°14 | 26°46 | 25°37 | 8°39 | 24° 5 | S 13 | |
| S 14 | 9 36 0 | 24°58'56 | 18°55 | 9°32 | 8°53 | 3°21 | 18° 9 | 27°13 | 25°22 | 27° 6 | 9°14 | 26°47 | 25°34 | 8°45 | 24°10 | S 14 | |
| M15 | 9 39 57 | 25°59'46 | 2♌42 | 11° 5 | 9°47 | 4° 8 | 18° 1 | 27° 8 | 25°25 | 27° 5 | 9°15 | 26°49 | 25°31 | 8°52 | 24°15 | M15 | |
| T 16 | 9 43 53 | 27° 0'35 | 16°18 | 12°39 | 10°43 | 4°56 | 17°53 | 27° 3 | 25°28 | 27° 3 | 9°15 | 26°50 | 25°28 | 8°59 | 24°20 | T 16 | |
| W17 | 9 47 50 | 28° 1'23 | 29°43 | 14°13 | 11°38 | 5°43 | 17°45 | 26°58 | 25°31 | 27° 2 | 9°16 | 26°R50 | 25°25 | 9° 5 | 24°24 | W17 | |
| T 18 | 9 51 46 | 29° 2'11 | 12♎57 | 15°49 | 12°34 | 6°31 | 17°37 | 26°53 | 25°34 | 27° 1 | 9°16 | 26°49 | 25°21 | 9°12 | 24°29 | T 18 | |
| F 19 | 9 55 43 | 0♈ 2'56 | 25°58 | 17°25 | 13°31 | 7°18 | 17°30 | 26°48 | 25°37 | 26°59 | 9°17 | 26°46 | 25°18 | 9°19 | 24°34 | F 19 | |
| S 20 | 9 59 40 | 1° 3'41 | 8♈46 | 19° 2 | 14°28 | 8° 6 | 17°22 | 26°43 | 25°41 | 26°58 | 9°17 | 26°42 | 25°15 | 9°26 | 24°38 | S 20 | |
| S 21 | 10 3 36 | 2° 4'24 | 21°21 | 20°39 | 15°26 | 8°53 | 17°14 | 26°39 | 25°44 | 26°56 | 9°18 | 26°36 | 25°12 | 9°32 | 24°43 | S 21 | |
| M22 | 10 7 33 | 3° 5'06 | 3♈44 | 22°18 | 16°24 | 9°41 | 17° 7 | 26°34 | 25°47 | 26°55 | 9°19 | 26°29 | 25° 9 | 9°39 | 24°48 | M22 | |
| T 23 | 10 11 29 | 4° 5'46 | 15°54 | 23°57 | 17°23 | 10°28 | 17° 0 | 26°29 | 25°50 | 26°53 | 9°19 | 26°22 | 25° 6 | 9°46 | 24°52 | T 23 | |
| W24 | 10 15 26 | 5° 6'25 | 27°55 | 25°37 | 18°22 | 11°16 | 16°52 | 26°24 | 25°53 | 26°52 | 9°20 | 26°16 | 25° 2 | 9°52 | 24°57 | W24 | |
| T 25 | 10 19 22 | 6° 7'02 | 9♌49 | 27°18 | 19°21 | 12° 3 | 16°45 | 26°19 | 25°57 | 26°50 | 9°21 | 26°11 | 24°59 | 9°59 | 25° 1 | T 25 | |
| F 26 | 10 23 19 | 7° 7'38 | 21°40 | 29° 0 | 20°21 | 12°51 | 16°38 | 26°15 | 26° 0 | 26°49 | 9°21 | 26° 7 | 24°56 | 10° 6 | 25° 6 | F 26 | |
| S 27 | 10 27 15 | 8° 8'11 | 3♈33 | 0♈43 | 21°22 | 13°38 | 16°31 | 26°10 | 26° 3 | 26°47 | 9°22 | 26°D 6 | 24°53 | 10°13 | 25°11 | S 27 | |
| S 28 | 10 31 12 | 9° 8'44 | 15°32 | 2°27 | 22°22 | 14°26 | 16°24 | 26° 5 | 26° 7 | 26°45 | 9°23 | 26° 6 | 24°50 | 10°19 | 25°15 | S 28 | |
| M29 | 10 35 8 | 10♋ 9'14 | 27♈42 | 4♈12 | 23♌23 | 15♋13 | 16♌17 | 26♌ 0 | 26♋10 | 26♎44 | 9♌24 | 26♌ 7 | 24♌47 | 10♌26 | 25♎20 | M29 | |

Delta T = 19m57s

ASTRODIENST EPHEMERIS for the year 2596
geocentric

MARCH 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|-------|--------|------|--------|-------|-------|-------|------|
| T 1 | 10 39 5 | 11♈ 9'43 | 10♉ 9 | 5♊57 | 24♋25 | 16♌0 | 16°R10 | 25°R56 | 26♍13 | 26°R42 | 9♎24 | 26♏9 | 24♐43 | 10♑33 | 25♒24 | T 1 |
| W 2 | 10 43 2 | 12°10'10 | 22°57 | 7°44 | 25°27 | 16°48 | 16♌4 | 25♌51 | 26°17 | 26♍41 | 9°25 | 26°R 9 | 24°40 | 10°39 | 25°29 | W 2 |
| T 3 | 10 46 58 | 13°10'35 | 6♌9 | 9°31 | 26°29 | 17°35 | 15°58 | 25°47 | 26°20 | 26°39 | 9°26 | 26° 9 | 24°37 | 10°46 | 25°33 | T 3 |
| F 4 | 10 50 55 | 14°10'58 | 19°47 | 11°19 | 27°31 | 18°23 | 15°51 | 25°42 | 26°23 | 26°38 | 9°27 | 26° 7 | 24°34 | 10°53 | 25°38 | F 4 |
| S 5 | 10 54 51 | 15°11'19 | 3♎50 | 13° 9 | 28°34 | 19°10 | 15°45 | 25°38 | 26°27 | 26°36 | 9°28 | 26° 2 | 24°31 | 11° 0 | 25°42 | S 5 |
| S 6 | 10 58 48 | 16°11'39 | 18°14 | 14°59 | 29°37 | 19°57 | 15°39 | 25°33 | 26°30 | 26°34 | 9°29 | 25°55 | 24°27 | 11° 6 | 25°47 | S 6 |
| M 7 | 11 2 44 | 17°11'57 | 2♏54 | 16°50 | 0♐40 | 20°45 | 15°33 | 25°29 | 26°34 | 26°33 | 9°30 | 25°47 | 24°24 | 11°13 | 25°51 | M 7 |
| T 8 | 11 6 41 | 18°12'14 | 17°43 | 18°42 | 1°44 | 21°32 | 15°27 | 25°24 | 26°37 | 26°31 | 9°30 | 25°39 | 24°21 | 11°20 | 25°56 | T 8 |
| W 9 | 11 10 37 | 19°12'29 | 2♌31 | 20°35 | 2°47 | 22°20 | 15°22 | 25°20 | 26°40 | 26°29 | 9°31 | 25°31 | 24°18 | 11°26 | 26° 0 | W 9 |
| T 10 | 11 14 34 | 20°12'42 | 17°11 | 22°29 | 3°52 | 23° 7 | 15°16 | 25°16 | 26°44 | 26°28 | 9°32 | 25°25 | 24°15 | 11°33 | 26° 4 | T 10 |
| F 11 | 11 18 31 | 21°12'54 | 1♊38 | 24°23 | 4°56 | 23°54 | 15°11 | 25°12 | 26°47 | 26°26 | 9°33 | 25°21 | 24°12 | 11°40 | 26° 9 | F 11 |
| S 12 | 11 22 27 | 22°13'05 | 15°47 | 26°18 | 6° 1 | 24°41 | 15° 6 | 25° 8 | 26°51 | 26°24 | 9°34 | 25°19 | 24° 8 | 11°47 | 26°13 | S 12 |
| S 13 | 11 26 24 | 23°13'14 | 29°39 | 28°14 | 7° 6 | 25°29 | 15° 1 | 25° 4 | 26°54 | 26°23 | 9°35 | 25°D19 | 24° 5 | 11°53 | 26°17 | S 13 |
| M14 | 11 30 20 | 24°13'22 | 13♋12 | 0♈10 | 8°11 | 26°16 | 14°56 | 25° 0 | 26°57 | 26°21 | 9°36 | 25°20 | 24° 2 | 12° 0 | 26°22 | M14 |
| T 15 | 11 34 17 | 25°13'28 | 26°30 | 2° 6 | 9°16 | 27° 3 | 14°51 | 24°56 | 27° 1 | 26°19 | 9°37 | 25°R20 | 23°59 | 12° 7 | 26°26 | T 15 |
| W16 | 11 38 13 | 26°13'33 | 9♎34 | 4° 2 | 10°22 | 27°50 | 14°47 | 24°52 | 27° 4 | 26°18 | 9°38 | 25°19 | 23°56 | 12°14 | 26°30 | W16 |
| T 17 | 11 42 10 | 27°13'36 | 22°25 | 5°58 | 11°27 | 28°38 | 14°43 | 24°48 | 27° 8 | 26°16 | 9°39 | 25°16 | 23°52 | 12°20 | 26°34 | T 17 |
| F 18 | 11 46 6 | 28°13'37 | 5♈ 5 | 7°54 | 12°33 | 29°25 | 14°38 | 24°45 | 27°11 | 26°14 | 9°41 | 25°10 | 23°49 | 12°27 | 26°39 | F 18 |
| S 19 | 11 50 3 | 29°13'37 | 17°36 | 9°49 | 13°39 | 0♈12 | 14°34 | 24°41 | 27°15 | 26°13 | 9°42 | 25° 1 | 23°46 | 12°34 | 26°43 | S 19 |
| S 20 | 11 54 0 | 0♈13'35 | 29°57 | 11°44 | 14°46 | 0°59 | 14°31 | 24°37 | 27°18 | 26°11 | 9°43 | 24°50 | 23°43 | 12°40 | 26°47 | S 20 |
| M21 | 11 57 56 | 1°13'30 | 12♈ 9 | 13°36 | 15°52 | 1°46 | 14°27 | 24°34 | 27°21 | 26° 9 | 9°44 | 24°37 | 23°40 | 12°47 | 26°51 | M21 |
| T 22 | 12 1 53 | 2°13'24 | 24°13 | 15°27 | 16°59 | 2°33 | 14°24 | 24°31 | 27°25 | 26° 8 | 9°45 | 24°24 | 23°37 | 12°54 | 26°55 | T 22 |
| W23 | 12 5 49 | 3°13'16 | 6♌10 | 17°16 | 18° 6 | 3°20 | 14°20 | 24°27 | 27°28 | 26° 6 | 9°46 | 24°12 | 23°33 | 13° 1 | 26°59 | W23 |
| T 24 | 12 9 46 | 4°13'06 | 18° 2 | 19° 2 | 19°13 | 4° 7 | 14°17 | 24°24 | 27°32 | 26° 4 | 9°47 | 24° 2 | 23°30 | 13° 7 | 27° 3 | T 24 |
| F 25 | 12 13 42 | 5°12'54 | 29°52 | 20°45 | 20°20 | 4°54 | 14°14 | 24°21 | 27°35 | 26° 3 | 9°48 | 23°54 | 23°27 | 13°14 | 27° 7 | F 25 |
| S 26 | 12 17 39 | 6°12'39 | 11♐43 | 22°25 | 21°27 | 5°41 | 14°12 | 24°18 | 27°39 | 26° 1 | 9°50 | 23°48 | 23°24 | 13°21 | 27°11 | S 26 |
| S 27 | 12 21 35 | 7°12'23 | 23°40 | 24° 0 | 22°34 | 6°28 | 14° 9 | 24°15 | 27°42 | 25°59 | 9°51 | 23°46 | 23°21 | 13°27 | 27°14 | S 27 |
| M28 | 12 25 32 | 8°12'04 | 5♉47 | 25°31 | 23°42 | 7°15 | 14° 7 | 24°12 | 27°45 | 25°58 | 9°52 | 23°D45 | 23°18 | 13°34 | 27°18 | M28 |
| T 29 | 12 29 29 | 9°11'43 | 18° 9 | 26°57 | 24°50 | 8° 2 | 14° 5 | 24°10 | 27°49 | 25°56 | 9°53 | 23°R45 | 23°14 | 13°41 | 27°22 | T 29 |
| W30 | 12 33 25 | 10°11'20 | 0♌53 | 28°17 | 25°58 | 8°49 | 14° 3 | 24° 7 | 27°52 | 25°55 | 9°54 | 23°45 | 23°11 | 13°48 | 27°26 | W30 |
| T 31 | 12 37 22 | 11°10'54 | 14♌ 2 | 29°32 | 27°56 | 9°36 | 14♌ 1 | 24♌ 4 | 27°56 | 25°53 | 9°56 | 23♉43 | 23♉ 8 | 13♉54 | 27°30 | T 31 |

Delta T = 19m57s

APRIL 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|-------|--------|-------|--------|-------|-------|-------|------|
| F 1 | 12 41 18 | 12♈10'26 | 27♌40 | 0♉40 | 28♒14 | 10♈23 | 14°R 0 | 24°R 2 | 27♋59 | 25°R51 | 9♎57 | 23°R40 | 23♉ 5 | 14♊ 1 | 27♒33 | F 1 |
| S 2 | 12 45 15 | 13° 9'56 | 11♎47 | 1°42 | 29°22 | 11°10 | 13♌58 | 24♌ 0 | 28° 2 | 25♎50 | 9°58 | 23♉33 | 23° 2 | 14° 8 | 27°37 | S 2 |
| S 3 | 12 49 11 | 14° 9'24 | 26°22 | 2°37 | 0♈30 | 11°56 | 13°57 | 23°57 | 28° 6 | 25°48 | 9°59 | 23°24 | 22°58 | 14°14 | 27°40 | S 3 |
| M 4 | 12 53 8 | 15° 8'49 | 11♁18 | 3°25 | 1°39 | 12°43 | 13°56 | 23°55 | 28° 9 | 25°47 | 10° 1 | 23°14 | 22°55 | 14°21 | 27°44 | M 4 |
| T 5 | 12 57 4 | 16° 8'13 | 26°27 | 4° 5 | 2°47 | 13°30 | 13°55 | 23°53 | 28°12 | 25°45 | 10° 2 | 23° 2 | 22°52 | 14°28 | 27°47 | T 5 |
| W 6 | 13 1 1 | 17° 7'35 | 11♌38 | 4°38 | 3°56 | 14°16 | 13°55 | 23°51 | 28°15 | 25°44 | 10° 3 | 22°52 | 22°49 | 14°34 | 27°51 | W 6 |
| T 7 | 13 4 57 | 18° 6'54 | 26°42 | 5° 4 | 5° 5 | 15° 3 | 13°54 | 23°49 | 28°19 | 25°42 | 10° 4 | 22°43 | 22°46 | 14°41 | 27°54 | T 7 |
| F 8 | 13 8 54 | 19° 6'13 | 11♊28 | 5°22 | 6°14 | 15°49 | 13°54 | 23°47 | 28°22 | 25°41 | 10° 6 | 22°37 | 22°43 | 14°48 | 27°58 | F 8 |
| S 9 | 13 12 51 | 20° 5'29 | 25°51 | 5°33 | 7°23 | 16°36 | 13°D54 | 23°46 | 28°25 | 25°39 | 10° 7 | 22°33 | 22°39 | 14°55 | 28° 1 | S 9 |
| S 10 | 13 16 47 | 21° 4'44 | 9♋50 | 5°R37 | 8°32 | 17°23 | 13°54 | 23°44 | 28°29 | 25°38 | 10° 8 | 22°32 | 22°36 | 15° 1 | 28° 4 | S 10 |
| M11 | 13 20 44 | 22° 3'57 | 23°25 | 5°33 | 9°41 | 18° 9 | 13°55 | 23°43 | 28°32 | 25°36 | 10°10 | 22°32 | 22°33 | 15° 8 | 28° 7 | M11 |
| T 12 | 13 24 40 | 23° 3'08 | 6♎37 | 5°22 | 10°50 | 18°55 | 13°55 | 23°42 | 28°35 | 25°35 | 10°11 | 22°31 | 22°30 | 15°15 | 28°11 | T 12 |
| W13 | 13 28 37 | 24° 2'17 | 19°31 | 5° 6 | 12° 0 | 19°42 | 13°56 | 23°40 | 28°38 | 25°33 | 10°12 | 22°30 | 22°27 | 15°21 | 28°14 | W13 |
| T 14 | 13 32 33 | 25° 1'25 | 2♈ 9 | 4°43 | 13° 9 | 20°28 | 13°57 | 23°39 | 28°41 | 25°32 | 10°14 | 22°26 | 22°24 | 15°28 | 28°17 | T 14 |
| F 15 | 13 36 30 | 26° 0'31 | 14°35 | 4°14 | 14°19 | 21°14 | 13°58 | 23°38 | 28°44 | 25°31 | 10°15 | 22°19 | 22°20 | 15°35 | 28°20 | F 15 |
| S 16 | 13 40 26 | 26°59'35 | 26°51 | 3°41 | 15°28 | 22° 1 | 13°59 | 23°37 | 28°48 | 25°29 | 10°16 | 22° 9 | 22°17 | 15°42 | 28°23 | S 16 |
| S 17 | 13 44 23 | 27°58'37 | 8♈59 | 3° 4 | 16°38 | 22°47 | 14° 1 | 23°36 | 28°51 | 25°28 | 10°18 | 21°57 | 22°14 | 15°48 | 28°26 | S 17 |
| M18 | 13 48 20 | 28°57'37 | 21° 1 | 2°23 | 17°48 | 23°33 | 14° 2 | 23°36 | 28°54 | 25°26 | 10°19 | 21°43 | 22°11 | 15°55 | 28°28 | M18 |
| T 19 | 13 52 16 | 29°56'35 | 2♉57 | 1°40 | 18°58 | 24°19 | 14° 4 | 23°35 | 28°57 | 25°25 | 10°20 | 21°28 | 22° 8 | 16° 2 | 28°31 | T 19 |
| W20 | 13 56 13 | 0♉55'32 | 14°50 | 0°55 | 20° 8 | 25° 6 | 14° 6 | 23°35 | 29° 0 | 25°24 | 10°22 | 21°15 | 22° 4 | 16° 8 | 28°34 | W20 |
| T 21 | 14 0 9 | 1°54'26 | 26°41 | 0°10 | 21°18 | 25°52 | 14° 8 | 23°34 | 29° 3 | 25°23 | 10°23 | 21° 3 | 22° 1 | 16°15 | 28°37 | T 21 |
| F 22 | 14 4 6 | 2°53'18 | 8♐31 | 29♈25 | 22°28 | 26°38 | 14°11 | 23°34 | 29° 6 | 25°21 | 10°24 | 20°54 | 21°58 | 16°22 | 28°39 | F 22 |
| S 23 | 14 8 2 | 3°52'08 | 20°23 | 28°40 | 23°38 | 27°24 | 14°13 | 23°34 | 29° 9 | 25°20 | 10°26 | 20°47 | 21°55 | 16°29 | 28°42 | S 23 |
| S 24 | 14 11 59 | 4°50'56 | 2♉21 | 27°58 | 24°48 | 28°10 | 14°16 | 23°D34 | 29°12 | 25°19 | 10°27 | 20°44 | 21°52 | 16°35 | 28°44 | S 24 |
| M25 | 14 15 55 | 5°49'42 | 14°27 | 27°18 | 25°59 | 28°56 | 14°19 | 23°34 | 29°15 | 25°18 | 10°29 | 20°42 | 21°49 | 16°42 | 28°47 | M25 |
| T 26 | 14 19 52 | 6°48'26 | 26°48 | 26°41 | 27° 9 | 29°41 | 14°22 | 23°34 | 29°18 | 25°16 | 10°30 | 20°D42 | 21°45 | 16°49 | 28°49 | T 26 |
| W27 | 14 23 49 | 7°47'07 | 9♌28 | 26° 7 | 28°19 | 0♉27 | 14°26 | 23°34 | 29°21 | 25°15 | 10°31 | 20°R42 | 21°42 | 16°55 | 28°52 | W27 |
| T 28 | 14 27 45 | 8°45'46 | 22°32 | 25°38 | 29°30 | 1°13 | 14°29 | 23°35 | 29°23 | 25°14 | 10°33 | 20°42 | 21°39 | 17° 2 | 28°54 | T 28 |
| F 29 | 14 31 42 | 9°44'23 | 6♎ 3 | 25°13 | 0♈40 | 1°59 | 14°33 | 23°35 | 29°26 | 25°13 | 10°34 | 20°39 | 21°36 | 17° 9 | 28°56 | F 29 |
| S 30 | 14 35 38 | 10♉42'58 | 20♎ 4 | 24♈53 | 1♈51 | 2♉44 | 14♌36 | 23♌36 | 29♋29 | 25♎12 | 10♉36 | 20♉34 | 21♉33 | 17♉16 | 28♒58 | S 30 |

Delta T = 19m57s

ASTRODIENST EPHEMERIS for the year 2596
geocentric

MAY 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|------|-----|
| S 1 | 14 39 35 | 11♌41'31 | 4♌34 | 24°R37 | 3♃1 | 3♃30 | 14♌40 | 23♌36 | 29♌32 | 25°R11 | 10♌37 | 20°R27 | 21♌29 | 17♌22 | 29♌1 | S 1 | |
| M 2 | 14 43 31 | 12°40'01 | 19°29 | 24°Y27 | 4°12 | 4°16 | 14°45 | 23°37 | 29°34 | 25°R10 | 10°38 | 20°R18 | 21°26 | 17°29 | 29°3 | M 2 | |
| T 3 | 14 47 28 | 13°38'30 | 4♌42 | 24°22 | 5°23 | 5°1 | 14°49 | 23°38 | 29°37 | 25°9 | 10°40 | 20°8 | 21°23 | 17°36 | 29°5 | T 3 | |
| W 4 | 14 51 24 | 14°36'56 | 20°2 | 24°D21 | 6°33 | 5°47 | 14°53 | 23°39 | 29°40 | 25°8 | 10°41 | 19°58 | 21°20 | 17°42 | 29°7 | W 4 | |
| T 5 | 14 55 21 | 15°35'21 | 5♌18 | 24°26 | 7°44 | 6°32 | 14°58 | 23°40 | 29°42 | 25°7 | 10°42 | 19°51 | 21°17 | 17°49 | 29°8 | T 5 | |
| F 6 | 14 59 18 | 16°33'45 | 20°18 | 24°35 | 8°55 | 7°17 | 15°3 | 23°42 | 29°45 | 25°6 | 10°44 | 19°45 | 21°14 | 17°56 | 29°10 | F 6 | |
| S 7 | 15 3 14 | 17°32'06 | 4♌57 | 24°49 | 10°6 | 8°3 | 15°8 | 23°43 | 29°48 | 25°5 | 10°45 | 19°42 | 21°10 | 18°3 | 29°12 | S 7 | |
| S 8 | 15 7 11 | 18°30'26 | 19°8 | 25°8 | 11°17 | 8°48 | 15°13 | 23°44 | 29°50 | 25°4 | 10°47 | 19°D41 | 21°7 | 18°9 | 29°14 | S 8 | |
| M 9 | 15 11 7 | 19°28'45 | 2♌51 | 25°32 | 12°28 | 9°33 | 15°18 | 23°46 | 29°53 | 25°4 | 10°48 | 19°42 | 21°4 | 18°16 | 29°15 | M 9 | |
| T 10 | 15 15 4 | 20°27'02 | 16°9 | 25°59 | 13°39 | 10°19 | 15°24 | 23°48 | 29°55 | 25°3 | 10°49 | 19°R42 | 21°1 | 18°23 | 29°17 | T 10 | |
| W11 | 15 19 0 | 21°25'18 | 29°3 | 26°31 | 14°50 | 11°4 | 15°29 | 23°49 | 29°58 | 25°2 | 10°51 | 19°42 | 20°58 | 18°29 | 29°18 | W11 | |
| T 12 | 15 22 57 | 22°23'32 | 11♌37 | 27°7 | 16°1 | 11°49 | 15°35 | 23°51 | 0°Y0 | 25°1 | 10°52 | 19°40 | 20°55 | 18°36 | 29°20 | T 12 | |
| F 13 | 15 26 53 | 23°21'44 | 23°57 | 27°47 | 17°12 | 12°34 | 15°41 | 23°53 | 0°2 | 25°1 | 10°53 | 19°36 | 20°51 | 18°43 | 29°21 | F 13 | |
| S 14 | 15 30 50 | 24°19'56 | 6°Y6 | 28°30 | 18°23 | 13°19 | 15°47 | 23°55 | 0°5 | 25°0 | 10°55 | 19°30 | 20°48 | 18°49 | 29°23 | S 14 | |
| S 15 | 15 34 47 | 25°18'05 | 18°6 | 29°17 | 19°35 | 14°4 | 15°53 | 23°58 | 0°7 | 24°59 | 10°56 | 19°21 | 20°45 | 18°56 | 29°24 | S 15 | |
| M16 | 15 38 43 | 26°16'13 | 0♌1 | 0♌8 | 20°46 | 14°49 | 15°59 | 24°0 | 0°9 | 24°59 | 10°57 | 19°12 | 20°42 | 19°3 | 29°25 | M16 | |
| T 17 | 15 42 40 | 27°14'20 | 11°53 | 1°2 | 21°57 | 15°34 | 16°6 | 24°2 | 0°12 | 24°58 | 10°59 | 19°1 | 20°39 | 19°10 | 29°26 | T 17 | |
| W18 | 15 46 36 | 28°12'25 | 23°43 | 1°59 | 23°8 | 16°18 | 16°12 | 24°5 | 0°14 | 24°57 | 11°0 | 18°52 | 20°35 | 19°16 | 29°27 | W18 | |
| T 19 | 15 50 33 | 29°10'29 | 5♌35 | 2°58 | 24°20 | 17°3 | 16°19 | 24°7 | 0°16 | 24°57 | 11°1 | 18°43 | 20°32 | 19°23 | 29°28 | T 19 | |
| F 20 | 15 54 29 | 0♌8'31 | 17°28 | 4°1 | 25°31 | 17°48 | 16°26 | 24°10 | 0°18 | 24°56 | 11°3 | 18°37 | 20°29 | 19°30 | 29°29 | F 20 | |
| S 21 | 15 58 26 | 1°6'31 | 29°25 | 5°7 | 26°43 | 18°33 | 16°33 | 24°13 | 0°20 | 24°56 | 11°4 | 18°33 | 20°26 | 19°36 | 29°30 | S 21 | |
| S 22 | 16 2 22 | 2°4'30 | 11♌29 | 6°16 | 27°54 | 19°17 | 16°40 | 24°16 | 0°22 | 24°55 | 11°5 | 18°31 | 20°23 | 19°43 | 29°31 | S 22 | |
| M23 | 16 6 19 | 3°2'27 | 23°42 | 7°27 | 29°6 | 20°2 | 16°48 | 24°19 | 0°24 | 24°55 | 11°7 | 18°D31 | 20°20 | 19°50 | 29°32 | M23 | |
| T 24 | 16 10 16 | 4°0'22 | 6♌8 | 8°41 | 0♌17 | 20°46 | 16°55 | 24°22 | 0°26 | 24°55 | 11°8 | 18°32 | 20°16 | 19°57 | 29°32 | T 24 | |
| W25 | 16 14 12 | 4°58'16 | 18°50 | 9°57 | 1°29 | 21°31 | 17°3 | 24°25 | 0°28 | 24°54 | 11°9 | 18°33 | 20°13 | 20°3 | 29°33 | W25 | |
| T 26 | 16 18 9 | 5°56'08 | 1♌52 | 11°16 | 2°40 | 22°15 | 17°10 | 24°28 | 0°30 | 24°54 | 11°11 | 18°R34 | 20°10 | 20°10 | 29°33 | T 26 | |
| F 27 | 16 22 5 | 6°53'58 | 15°18 | 12°37 | 3°52 | 22°59 | 17°18 | 24°31 | 0°32 | 24°54 | 11°12 | 18°34 | 20°7 | 20°17 | 29°34 | F 27 | |
| S 28 | 16 26 2 | 7°51'46 | 29°10 | 14°1 | 5°3 | 23°44 | 17°26 | 24°35 | 0°33 | 24°53 | 11°13 | 18°32 | 20°4 | 20°23 | 29°34 | S 28 | |
| S 29 | 16 29 58 | 8°49'38 | 13♌28 | 15°27 | 6°15 | 24°28 | 17°34 | 24°38 | 0°35 | 24°53 | 11°14 | 18°28 | 20°1 | 20°30 | 29°35 | S 29 | |
| M30 | 16 33 55 | 9°47'18 | 28°10 | 16°56 | 7°27 | 25°12 | 17°42 | 24°42 | 0°37 | 24°53 | 11°16 | 18°24 | 19°57 | 20°37 | 29°35 | M30 | |
| T 31 | 16 37 51 | 10°45'02 | 13♌11 | 18♌27 | 8♌38 | 25♌56 | 17♌51 | 24♌46 | 0°Y39 | 24♌53 | 11♌17 | 18♌18 | 19♌54 | 20♌43 | 29♌35 | T 31 | |

Delta T = 19m58s

JUNE 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|------|-----|
| W 1 | 16 41 48 | 11♌42'44 | 28♌22 | 20♌0 | 9♌50 | 26♌40 | 17♌59 | 24♌50 | 0°Y40 | 24°R53 | 11♌18 | 18°R13 | 19♌51 | 20♌50 | 29♌35 | W 1 | |
| T 2 | 16 45 45 | 12°40'25 | 13♌33 | 21°35 | 11°2 | 27°24 | 18°7 | 24°53 | 0°42 | 24♌53 | 11°19 | 18°R9 | 19°48 | 20°57 | 29°35 | T 2 | |
| F 3 | 16 49 41 | 13°38'04 | 28°34 | 23°13 | 12°14 | 28°8 | 18°16 | 24°57 | 0°43 | 24°53 | 11°20 | 18°6 | 19°45 | 21°4 | 29°R35 | F 3 | |
| S 4 | 16 53 38 | 14°35'43 | 13♌17 | 24°53 | 13°25 | 28°52 | 18°25 | 25°2 | 0°45 | 24°D53 | 11°22 | 18°D5 | 19°41 | 21°10 | 29°35 | S 4 | |
| S 5 | 16 57 34 | 15°33'20 | 27°37 | 26°36 | 14°37 | 29°36 | 18°34 | 25°6 | 0°46 | 24°53 | 11°23 | 18°5 | 19°38 | 21°17 | 29°35 | S 5 | |
| M 6 | 17 1 31 | 16°30'57 | 11♌29 | 28°21 | 15°49 | 0♌20 | 18°43 | 25°10 | 0°48 | 24°53 | 11°24 | 18°6 | 19°35 | 21°24 | 29°35 | M 6 | |
| T 7 | 17 5 27 | 17°28'32 | 24°54 | 0♌8 | 17°1 | 1°4 | 18°52 | 25°14 | 0°49 | 24°53 | 11°25 | 18°8 | 19°32 | 21°30 | 29°35 | T 7 | |
| W 8 | 17 9 24 | 18°26'07 | 7♌54 | 1°57 | 18°13 | 1°47 | 19°1 | 25°19 | 0°50 | 24°53 | 11°26 | 18°9 | 19°29 | 21°37 | 29°34 | W 8 | |
| T 9 | 17 13 20 | 19°23'40 | 20°32 | 3°48 | 19°25 | 2°31 | 19°10 | 25°23 | 0°52 | 24°53 | 11°27 | 18°R9 | 19°26 | 21°44 | 29°34 | T 9 | |
| F 10 | 17 17 17 | 20°21'13 | 2°Y52 | 5°42 | 20°37 | 3°14 | 19°20 | 25°28 | 0°53 | 24°53 | 11°29 | 18°9 | 19°22 | 21°50 | 29°33 | F 10 | |
| S 11 | 17 21 14 | 21°18'45 | 14°59 | 7°38 | 21°49 | 3°58 | 19°29 | 25°32 | 0°54 | 24°53 | 11°30 | 18°7 | 19°19 | 21°57 | 29°33 | S 11 | |
| S 12 | 17 25 10 | 22°16'17 | 26°57 | 9°36 | 23°1 | 4°41 | 19°39 | 25°37 | 0°55 | 24°54 | 11°31 | 18°4 | 19°16 | 22°4 | 29°32 | S 12 | |
| M13 | 17 29 7 | 23°13'47 | 8♌49 | 11°37 | 24°13 | 5°25 | 19°48 | 25°42 | 0°56 | 24°54 | 11°32 | 18°0 | 19°13 | 22°11 | 29°32 | M13 | |
| T 14 | 17 33 3 | 24°11'17 | 20°39 | 13°39 | 25°25 | 6°8 | 19°58 | 25°47 | 0°57 | 24°54 | 11°33 | 17°56 | 19°10 | 22°17 | 29°31 | T 14 | |
| W15 | 17 37 0 | 25°8'46 | 2♌30 | 15°43 | 26°37 | 6°52 | 20°8 | 25°52 | 0°58 | 24°54 | 11°34 | 17°52 | 19°7 | 22°24 | 29°30 | W15 | |
| T 16 | 17 40 56 | 26°6'15 | 14°25 | 17°49 | 27°49 | 7°35 | 20°18 | 25°57 | 0°59 | 24°55 | 11°35 | 17°49 | 19°3 | 22°31 | 29°29 | T 16 | |
| F 17 | 17 44 53 | 27°3'42 | 26°25 | 19°56 | 29°1 | 8°18 | 20°28 | 26°2 | 1°0 | 24°55 | 11°36 | 17°46 | 19°0 | 22°37 | 29°29 | F 17 | |
| S 18 | 17 48 49 | 28°1'09 | 8♌32 | 22°5 | 0♌14 | 9°1 | 20°38 | 26°7 | 1°1 | 24°56 | 11°37 | 17°45 | 18°57 | 22°44 | 29°28 | S 18 | |
| S 19 | 17 52 46 | 28°58'35 | 20°47 | 24°15 | 1°26 | 9°44 | 20°48 | 26°12 | 1°2 | 24°56 | 11°38 | 17°D45 | 18°54 | 22°51 | 29°27 | S 19 | |
| M20 | 17 56 43 | 29°56'00 | 3♌14 | 26°26 | 2°38 | 10°27 | 20°59 | 26°17 | 1°2 | 24°57 | 11°39 | 17°46 | 18°51 | 22°57 | 29°25 | M20 | |
| T 21 | 18 0 39 | 0♌53'24 | 15°53 | 28°37 | 3°50 | 11°10 | 21°9 | 26°23 | 1°3 | 24°57 | 11°40 | 17°47 | 18°47 | 23°4 | 29°24 | T 21 | |
| W22 | 18 4 36 | 1°50'47 | 28°46 | 0♌49 | 5°2 | 11°53 | 21°20 | 26°28 | 1°4 | 24°58 | 11°41 | 17°48 | 18°44 | 23°11 | 29°23 | W22 | |
| T 23 | 18 8 32 | 2°48'09 | 11♌56 | 3°1 | 6°15 | 12°36 | 21°30 | 26°34 | 1°4 | 24°58 | 11°42 | 17°49 | 18°41 | 23°18 | 29°22 | T 23 | |
| F 24 | 18 12 29 | 3°45'30 | 25°24 | 5°13 | 7°27 | 13°19 | 21°41 | 26°39 | 1°5 | 24°59 | 11°43 | 17°50 | 18°38 | 23°24 | 29°20 | F 24 | |
| S 25 | 18 16 25 | 4°42'50 | 9♌12 | 7°25 | 8°39 | 14°2 | 21°52 | 26°45 | 1°5 | 25°0 | 11°44 | 17°R50 | 18°35 | 23°31 | 29°19 | S 25 | |
| S 26 | 18 20 22 | 5°40'09 | 23°20 | 9°36 | 9°52 | 14°44 | 22°3 | 26°51 | 1°6 | 25°0 | 11°45 | 17°49 | 18°32 | 23°38 | 29°18 | S 26 | |
| M27 | 18 24 18 | 6°37'28 | 7♌45 | 11°46 | 11°4 | 15°27 | 22°13 | 26°57 | 1°6 | 25°1 | 11°46 | 17°48 | 18°28 | 23°44 | 29°16 | M27 | |
| T 28 | 18 28 15 | 7°34'45 | 22°25 | 13°55 | 12°16 | 16°9 | 22°24 | 27°2 | 1°7 | 25°2 | 11°46 | 17°47 | 18°25 | 23°51 | 29°15 | T 28 | |
| W29 | 18 32 12 | 8°32'02 | 7♌15 | 16°2 | 13°29 | 16°52 | 22°35 | 27°8 | 1°7 | 25°2 | 11°47 | 17°46 | 18°22 | 23°58 | 29°13 | W29 | |
| T 30 | 18 36 8 | 9♌29'18 | 22♌7 | 18♌8 | 14♌41 | 17♌34 | 22♌47 | 27♌14 | 1°Y7 | 25♌3 | 11♌48 | 17♌45 | 18♌19 | 24♌4 | 29♌11 | T 30 | |

Delta T = 19m58s

ASTRODIENST EPHEMERIS for the year 2596
geocentric

JULY 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|------|
| F 1 | 18 40 5 | 10♌26'34 | 6♋53 | 20♌12 | 15♈54 | 18♈17 | 22♌58 | 27♌20 | 1♈7 | 25♈4 | 11♋49 | 17°R45 | 18♌16 | 24♋11 | 29°R10 | F 1 |
| S 2 | 18 44 1 | 11°23'50 | 21°27 | 22°15 | 17° 6 | 18°59 | 23° 9 | 27°26 | 1° 8 | 25° 5 | 11°50 | 17°D45 | 18°13 | 24°18 | 29° 8 | S 2 |
| S 3 | 18 47 58 | 12°21'05 | 5♌43 | 24°16 | 18°19 | 19°41 | 23°20 | 27°32 | 1° 8 | 25° 6 | 11°51 | 17°D45 | 18° 9 | 24°25 | 29° 6 | S 3 |
| M 4 | 18 51 54 | 13°18'19 | 19°36 | 26°15 | 19°31 | 20°24 | 23°32 | 27°39 | 1° 8 | 25° 7 | 11°51 | 17°45 | 18° 6 | 24°31 | 29° 4 | M 4 |
| T 5 | 18 55 51 | 14°15'34 | 3♌5 | 28°11 | 20°44 | 21° 6 | 23°43 | 27°45 | 1°R 8 | 25° 8 | 11°52 | 17°46 | 18° 3 | 24°38 | 29° 2 | T 5 |
| W 6 | 18 59 48 | 15°12'48 | 16° 9 | 0♌6 | 21°56 | 21°48 | 23°55 | 27°51 | 1° 8 | 25° 9 | 11°53 | 17°46 | 18° 0 | 24°45 | 29° 0 | W 6 |
| T 7 | 19 3 44 | 16°10'02 | 28°51 | 1°59 | 23° 9 | 22°30 | 24° 6 | 27°58 | 1° 8 | 25°10 | 11°53 | 17°46 | 17°57 | 24°51 | 28°58 | T 7 |
| F 8 | 19 7 41 | 17° 7'17 | 11♈15 | 3°49 | 24°22 | 23°12 | 24°18 | 28° 4 | 1° 8 | 25°11 | 11°54 | 17°46 | 17°53 | 24°58 | 28°56 | F 8 |
| S 9 | 19 11 37 | 18° 4'31 | 23°24 | 5°38 | 25°34 | 23°54 | 24°30 | 28°10 | 1° 7 | 25°12 | 11°55 | 17°46 | 17°50 | 25° 5 | 28°54 | S 9 |
| S 10 | 19 15 34 | 19° 1'46 | 5♋22 | 7°24 | 26°47 | 24°36 | 24°41 | 28°17 | 1° 7 | 25°13 | 11°55 | 17°46 | 17°47 | 25°11 | 28°52 | S 10 |
| M 11 | 19 19 30 | 19°59'00 | 17°14 | 9° 8 | 28° 0 | 25°18 | 24°53 | 28°23 | 1° 7 | 25°14 | 11°56 | 17°47 | 17°44 | 25°18 | 28°49 | M 11 |
| T 12 | 19 23 27 | 20°56'15 | 29° 5 | 10°50 | 29°12 | 25°59 | 25° 5 | 28°30 | 1° 7 | 25°15 | 11°57 | 17°47 | 17°41 | 25°25 | 28°47 | T 12 |
| W 13 | 19 27 23 | 21°53'30 | 10♈58 | 12°30 | 0♌25 | 26°41 | 25°17 | 28°37 | 1° 6 | 25°16 | 11°57 | 17°47 | 17°38 | 25°31 | 28°45 | W 13 |
| T 14 | 19 31 20 | 22°50'45 | 22°57 | 14° 8 | 1°38 | 27°23 | 25°29 | 28°43 | 1° 6 | 25°18 | 11°58 | 17°48 | 17°34 | 25°38 | 28°42 | T 14 |
| F 15 | 19 35 17 | 23°48'01 | 5♌5 | 15°43 | 2°51 | 28° 5 | 25°41 | 28°50 | 1° 5 | 25°19 | 11°58 | 17°48 | 17°31 | 25°45 | 28°40 | F 15 |
| S 16 | 19 39 13 | 24°45'16 | 17°24 | 17°17 | 4° 4 | 28°46 | 25°53 | 28°57 | 1° 5 | 25°20 | 11°59 | 17°R48 | 17°28 | 25°52 | 28°37 | S 16 |
| S 17 | 19 43 10 | 25°42'31 | 29°55 | 18°48 | 5°17 | 29°28 | 26° 5 | 29° 4 | 1° 4 | 25°21 | 12° 0 | 17°48 | 17°25 | 25°58 | 28°35 | S 17 |
| M 18 | 19 47 6 | 26°39'47 | 12♌40 | 20°17 | 6°29 | 0♌9 | 26°17 | 29°11 | 1° 4 | 25°23 | 12° 0 | 17°48 | 17°22 | 26° 5 | 28°32 | M 18 |
| T 19 | 19 51 3 | 27°37'02 | 25°40 | 21°44 | 7°42 | 0°50 | 26°30 | 29°17 | 1° 3 | 25°24 | 12° 0 | 17°47 | 17°19 | 26°12 | 28°30 | T 19 |
| W 20 | 19 54 59 | 28°34'18 | 8♈53 | 23° 8 | 8°55 | 1°32 | 26°42 | 29°24 | 1° 2 | 25°25 | 12° 1 | 17°45 | 17°15 | 26°18 | 28°27 | W 20 |
| T 21 | 19 58 56 | 29°31'33 | 22°21 | 24°31 | 10° 8 | 2°13 | 26°54 | 29°31 | 1° 2 | 25°27 | 12° 1 | 17°44 | 17°12 | 26°25 | 28°25 | T 21 |
| F 22 | 20 2 52 | 0♌28'49 | 6♌1 | 25°51 | 11°21 | 2°54 | 27° 6 | 29°38 | 1° 1 | 25°28 | 12° 2 | 17°43 | 17° 9 | 26°32 | 28°22 | F 22 |
| S 23 | 20 6 49 | 1°26'04 | 19°54 | 27° 8 | 12°34 | 3°35 | 27°19 | 29°45 | 1° 0 | 25°30 | 12° 2 | 17°42 | 17° 6 | 26°38 | 28°19 | S 23 |
| S 24 | 20 10 46 | 2°23'19 | 3♌59 | 28°24 | 13°47 | 4°17 | 27°31 | 29°53 | 0°59 | 25°31 | 12° 3 | 17°D41 | 17° 3 | 26°45 | 28°16 | S 24 |
| M 25 | 20 14 42 | 3°20'35 | 18°12 | 29°37 | 15° 1 | 4°58 | 27°44 | 29°59 | 0°58 | 25°33 | 12° 3 | 17°42 | 16°59 | 26°52 | 28°14 | M 25 |
| T 26 | 20 18 39 | 4°17'50 | 2♌34 | 0♈47 | 16°14 | 5°39 | 27°56 | 0♈7 | 0°57 | 25°34 | 12° 3 | 17°43 | 16°56 | 26°59 | 28°11 | T 26 |
| W 27 | 20 22 35 | 5°15'06 | 16°59 | 1°55 | 17°27 | 6°20 | 28° 9 | 0°14 | 0°56 | 25°36 | 12° 4 | 17°44 | 16°53 | 27° 5 | 28° 8 | W 27 |
| T 28 | 20 26 32 | 6°12'22 | 1♌25 | 3° 0 | 18°40 | 7° 0 | 28°21 | 0°21 | 0°55 | 25°37 | 12° 4 | 17°45 | 16°50 | 27°12 | 28° 5 | T 28 |
| F 29 | 20 30 28 | 7° 9'38 | 15°46 | 4° 2 | 19°53 | 7°41 | 28°34 | 0°29 | 0°54 | 25°39 | 12° 4 | 17°R46 | 16°47 | 27°19 | 28° 2 | F 29 |
| S 30 | 20 34 25 | 8° 6'54 | 29°59 | 5° 1 | 21° 6 | 8°22 | 28°47 | 0°36 | 0°53 | 25°40 | 12° 4 | 17°45 | 16°44 | 27°25 | 27°59 | S 30 |
| S 31 | 20 38 21 | 9♌4'11 | 13♌59 | 5♈58 | 22♌20 | 9♌3 | 28♌59 | 0♈43 | 0°52 | 25♈42 | 12♋5 | 17°D44 | 16°D40 | 27♋32 | 27°56 | S 31 |

Delta T = 19m58s

AUGUST 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|-------|-------|--------|--------|-------|-------|--------|------|
| M 1 | 20 42 18 | 10♌1'28 | 27♌42 | 6♈51 | 23♌33 | 9♌43 | 29♌12 | 0♈50 | 0°R51 | 25♈44 | 12♋5 | 17°R41 | 16♌37 | 27♋39 | 27°R53 | M 1 |
| T 2 | 20 46 15 | 10°58'46 | 11♌6 | 7°41 | 24°46 | 10°24 | 29°25 | 0°58 | 0°Y49 | 25°45 | 12° 5 | 17°D38 | 16°34 | 27°45 | 27°50 | T 2 |
| W 3 | 20 50 11 | 11°56'05 | 24° 9 | 8°28 | 25°59 | 11° 4 | 29°38 | 1° 5 | 0°48 | 25°47 | 12° 5 | 17°35 | 16°31 | 27°52 | 27°47 | W 3 |
| T 4 | 20 54 8 | 12°53'24 | 6♈51 | 9°11 | 27°13 | 11°45 | 29°50 | 1°13 | 0°47 | 25°49 | 12° 5 | 17°31 | 16°28 | 27°59 | 27°44 | T 4 |
| F 5 | 20 58 4 | 13°50'44 | 19°16 | 9°51 | 28°26 | 12°25 | 0♈3 | 1°20 | 0°45 | 25°51 | 12° 5 | 17°28 | 16°25 | 28° 5 | 27°41 | F 5 |
| S 6 | 21 2 1 | 14°48'06 | 1♋26 | 10°26 | 29°40 | 13° 6 | 0°16 | 1°27 | 0°44 | 25°52 | 12° 6 | 17°26 | 16°21 | 28°12 | 27°38 | S 6 |
| S 7 | 21 5 57 | 15°45'28 | 13°25 | 10°58 | 0♌53 | 13°46 | 0°29 | 1°35 | 0°42 | 25°54 | 12° 6 | 17°D25 | 16°18 | 28°19 | 27°35 | S 7 |
| M 8 | 21 9 54 | 16°42'51 | 25°17 | 11°26 | 2° 7 | 14°26 | 0°42 | 1°42 | 0°41 | 25°56 | 12° 6 | 17°26 | 16°15 | 28°25 | 27°32 | M 8 |
| T 9 | 21 13 50 | 17°40'15 | 7♈8 | 11°49 | 3°20 | 15° 7 | 0°55 | 1°50 | 0°39 | 25°58 | 12° 6 | 17°27 | 16°12 | 28°32 | 27°28 | T 9 |
| W 10 | 21 17 47 | 18°37'40 | 19° 3 | 12° 8 | 4°34 | 15°47 | 1° 8 | 1°58 | 0°38 | 26° 0 | 12° 6 | 17°29 | 16° 9 | 28°39 | 27°25 | W 10 |
| T 11 | 21 21 44 | 19°35'07 | 1♌6 | 12°22 | 5°47 | 16°27 | 1°21 | 2° 5 | 0°36 | 26° 1 | 12°R 6 | 17°30 | 16° 5 | 28°46 | 27°22 | T 11 |
| F 12 | 21 25 40 | 20°32'34 | 13°20 | 12°31 | 7° 1 | 17° 7 | 1°34 | 2°13 | 0°35 | 26° 3 | 12° 6 | 17°R31 | 16° 2 | 28°52 | 27°19 | F 12 |
| S 13 | 21 29 37 | 21°30'03 | 25°50 | 12°R35 | 8°15 | 17°47 | 1°47 | 2°20 | 0°33 | 26° 5 | 12° 6 | 17°31 | 15°59 | 28°59 | 27°16 | S 13 |
| S 14 | 21 33 33 | 22°27'32 | 8♌37 | 12°34 | 9°28 | 18°27 | 2° 0 | 2°28 | 0°31 | 26° 7 | 12° 6 | 17°29 | 15°56 | 29° 6 | 27°12 | S 14 |
| M 15 | 21 37 30 | 23°25'03 | 21°42 | 12°27 | 10°42 | 19° 7 | 2°13 | 2°35 | 0°29 | 26° 9 | 12° 6 | 17°26 | 15°53 | 29°12 | 27° 9 | M 15 |
| T 16 | 21 41 26 | 24°22'34 | 5♈6 | 12°16 | 11°56 | 19°46 | 2°26 | 2°43 | 0°28 | 26°11 | 12° 6 | 17°21 | 15°50 | 29°19 | 27° 6 | T 16 |
| W 17 | 21 45 23 | 25°20'07 | 18°45 | 11°59 | 13° 9 | 20°26 | 2°39 | 2°51 | 0°26 | 26°13 | 12° 5 | 17°15 | 15°46 | 29°26 | 27° 3 | W 17 |
| T 18 | 21 49 19 | 26°17'40 | 2♌37 | 11°36 | 14°23 | 21° 6 | 2°52 | 2°58 | 0°24 | 26°15 | 12° 5 | 17° 9 | 15°43 | 29°32 | 27° 0 | T 18 |
| F 19 | 21 53 16 | 27°15'14 | 16°40 | 11° 9 | 15°37 | 21°45 | 3° 5 | 3° 6 | 0°22 | 26°17 | 12° 5 | 17° 3 | 15°40 | 29°39 | 26°56 | F 19 |
| S 20 | 21 57 13 | 28°12'49 | 0♈48 | 10°36 | 16°51 | 22°25 | 3°18 | 3°14 | 0°20 | 26°19 | 12° 5 | 16°59 | 15°37 | 29°46 | 26°53 | S 20 |
| S 21 | 22 1 9 | 29°10'24 | 15° 0 | 10° 0 | 18° 5 | 23° 5 | 3°31 | 3°21 | 0°18 | 26°21 | 12° 5 | 16°56 | 15°34 | 29°52 | 26°50 | S 21 |
| M 22 | 22 5 6 | 0♈8'01 | 29°11 | 9°18 | 19°18 | 23°44 | 3°44 | 3°29 | 0°16 | 26°23 | 12° 4 | 16°D56 | 15°30 | 29°59 | 26°47 | M 22 |
| T 23 | 22 9 2 | 1° 5'39 | 13♌21 | 8°34 | 20°32 | 24°23 | 3°57 | 3°37 | 0°14 | 26°25 | 12° 4 | 16°56 | 15°27 | 0♈6 | 26°44 | T 23 |
| W 24 | 22 12 59 | 2° 3'17 | 27°28 | 7°46 | 21°46 | 25° 3 | 4°10 | 3°44 | 0°12 | 26°27 | 12° 4 | 16°57 | 15°24 | 0°12 | 26°40 | W 24 |
| T 25 | 22 16 55 | 3° 0'57 | 11♌30 | 6°57 | 23° 0 | 25°42 | 4°24 | 3°52 | 0°10 | 26°29 | 12° 4 | 16°R58 | 15°21 | 0°19 | 26°37 | T 25 |
| F 26 | 22 20 52 | 3°58'37 | 25°25 | 6° 6 | 24°14 | 26°21 | 4°37 | 4° 0 | 0° 8 | 26°31 | 12° 3 | 16°58 | 15°18 | 0°26 | 26°34 | F 26 |
| S 27 | 22 24 48 | 4°56'19 | 9♌12 | 5°14 | 25°28 | 27° 0 | 4°50 | 4° 7 | 0° 6 | 26°33 | 12° 3 | 16°56 | 15°15 | 0°32 | 26°31 | S 27 |
| S 28 | 22 28 45 | 5°54'01 | 22°49 | 4°24 | 26°42 | 27°39 | 5° 3 | 4°15 | 0° 4 | 26°35 | 12° 3 | 16°52 | 15°11 | 0°39 | 26°28 | S 28 |
| M 29 | 22 32 42 | 6°51'45 | 6♈13 | 3°35 | 27°56 | 28°19 | 5°16 | 4°23 | 0° 2 | 26°37 | 12° 2 | 16°45 | 15° 8 | 0°46 | 26°25 | M 29 |
| T 30 | 22 36 38 | 7°49'30 | 19°22 | 2°49 | 29°10 | 28°58 | 5°29 | 4°30 | 29♈59 | 26°40 | 12° 2 | 1 | | | | |

ASTRODIENST EPHEMERIS for the year 2596
geocentric

SEPTEMBER 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|------|--------|-------|--------|--------|-------|------|--------|------|-----|
| T 1 | 22 44 31 | 9♎45°04 | 14♏53 | 1°R28 | 1♎38 | 0♏15 | 5♎55 | 4♎46 | 29°R55 | 26♎44 | 12°R 1 | 16°R19 | 14♏59 | 1♎6 | 26°R15 | T 1 | |
| F 2 | 22 48 28 | 10°42'54 | 27°14 | 0♎56 | 2°53 | 0°54 | 6° 8 | 4°53 | 29♎53 | 26°46 | 12♎1 | 16♏11 | 14°56 | 1°13 | 26♎12 | F 2 | |
| S 3 | 22 52 24 | 11°40'45 | 9♎22 | 0°30 | 4° 7 | 1°33 | 6°21 | 5° 1 | 29°51 | 26°48 | 12° 0 | 16° 4 | 14°52 | 1°19 | 26° 9 | S 3 | |
| S 4 | 22 56 21 | 12°38'38 | 21°20 | 0°11 | 5°21 | 2°12 | 6°34 | 5° 9 | 29°49 | 26°50 | 12° 0 | 15°59 | 14°49 | 1°26 | 26° 6 | S 4 | |
| M 5 | 23 0 17 | 13°36'32 | 3♎11 | 29♏59 | 6°35 | 2°50 | 6°47 | 5°16 | 29°47 | 26°52 | 11°59 | 15°57 | 14°46 | 1°33 | 26° 3 | M 5 | |
| T 6 | 23 4 14 | 14°34'29 | 15° 1 | 29°D55 | 7°49 | 3°29 | 7° 1 | 5°24 | 29°44 | 26°55 | 11°59 | 15°D56 | 14°43 | 1°39 | 26° 0 | T 6 | |
| W 7 | 23 8 10 | 15°32'27 | 26°55 | 29°59 | 9° 4 | 4° 7 | 7°14 | 5°31 | 29°42 | 26°57 | 11°58 | 15°57 | 14°40 | 1°46 | 25°57 | W 7 | |
| T 8 | 23 12 7 | 16°30'27 | 8♏59 | 0♎12 | 10°18 | 4°46 | 7°27 | 5°39 | 29°40 | 26°59 | 11°58 | 15°57 | 14°36 | 1°53 | 25°54 | T 8 | |
| F 9 | 23 16 4 | 17°28'29 | 21°16 | 0°33 | 11°32 | 5°24 | 7°40 | 5°47 | 29°37 | 27° 1 | 11°57 | 15°R57 | 14°33 | 1°59 | 25°51 | F 9 | |
| S 10 | 23 20 0 | 18°26'32 | 3♏51 | 1° 2 | 12°47 | 6° 3 | 7°53 | 5°54 | 29°35 | 27° 3 | 11°56 | 15°56 | 14°30 | 2° 6 | 25°48 | S 10 | |
| S 11 | 23 23 57 | 19°24'38 | 16°49 | 1°39 | 14° 1 | 6°41 | 8° 6 | 6° 2 | 29°33 | 27° 6 | 11°56 | 15°52 | 14°27 | 2°13 | 25°46 | S 11 | |
| M12 | 23 27 53 | 20°22'45 | 0♎10 | 2°25 | 15°15 | 7°19 | 8°19 | 6° 9 | 29°30 | 27° 8 | 11°55 | 15°46 | 14°24 | 2°19 | 25°43 | M12 | |
| T 13 | 23 31 50 | 21°20'54 | 13°54 | 3°18 | 16°30 | 7°57 | 8°32 | 6°17 | 29°28 | 27°10 | 11°55 | 15°37 | 14°21 | 2°26 | 25°40 | T 13 | |
| W14 | 23 35 46 | 22°19'04 | 27°59 | 4°18 | 17°44 | 8°35 | 8°44 | 6°24 | 29°26 | 27°12 | 11°54 | 15°27 | 14°17 | 2°33 | 25°37 | W14 | |
| T 15 | 23 39 43 | 23°17'16 | 12♏18 | 5°25 | 18°59 | 9°13 | 8°57 | 6°32 | 29°23 | 27°15 | 11°53 | 15°17 | 14°14 | 2°39 | 25°34 | T 15 | |
| F 16 | 23 43 39 | 24°15'30 | 26°48 | 6°39 | 20°13 | 9°51 | 9°10 | 6°39 | 29°21 | 27°17 | 11°53 | 15° 7 | 14°11 | 2°46 | 25°32 | F 16 | |
| S 17 | 23 47 36 | 25°13'46 | 11♎20 | 7°58 | 21°28 | 10°29 | 9°23 | 6°47 | 29°18 | 27°19 | 11°52 | 14°59 | 14° 8 | 2°53 | 25°29 | S 17 | |
| S 18 | 23 51 33 | 26°12'02 | 25°48 | 9°23 | 22°42 | 11° 7 | 9°36 | 6°54 | 29°16 | 27°21 | 11°51 | 14°53 | 14° 5 | 2°59 | 25°27 | S 18 | |
| M19 | 23 55 29 | 27°10'21 | 10♏9 | 10°53 | 23°57 | 11°45 | 9°49 | 7° 1 | 29°14 | 27°23 | 11°50 | 14°50 | 14° 2 | 3° 6 | 25°24 | M19 | |
| T 20 | 23 59 26 | 28° 8'41 | 24°19 | 12°27 | 25°11 | 12°23 | 10° 1 | 7° 9 | 29°11 | 27°26 | 11°50 | 14°D49 | 13°58 | 3°13 | 25°21 | T 20 | |
| W21 | 0 3 22 | 29° 7'02 | 8♎17 | 14° 5 | 26°26 | 13° 0 | 10°14 | 7°16 | 29° 9 | 27°28 | 11°49 | 14°R49 | 13°55 | 3°19 | 25°19 | W21 | |
| T 22 | 0 7 19 | 0♏5'25 | 22° 4 | 15°47 | 27°40 | 13°38 | 10°27 | 7°23 | 29° 6 | 27°30 | 11°48 | 14°49 | 13°52 | 3°26 | 25°17 | T 22 | |
| F 23 | 0 11 15 | 1° 3'49 | 5♎39 | 17°30 | 28°55 | 14°15 | 10°40 | 7°31 | 29° 4 | 27°32 | 11°47 | 14°48 | 13°49 | 3°33 | 25°14 | F 23 | |
| S 24 | 0 15 12 | 2° 2'15 | 19° 3 | 19°17 | 0♏9 | 14°53 | 10°52 | 7°38 | 29° 2 | 27°35 | 11°46 | 14°44 | 13°46 | 3°40 | 25°12 | S 24 | |
| S 25 | 0 19 8 | 3° 0'43 | 2♎16 | 21° 5 | 1°24 | 15°30 | 11° 5 | 7°45 | 28°59 | 27°37 | 11°46 | 14°37 | 13°42 | 3°46 | 25°10 | S 25 | |
| M26 | 0 23 5 | 3°59'12 | 15°18 | 2°54 | 2°39 | 16° 7 | 11°17 | 7°52 | 28°57 | 27°39 | 11°45 | 14°28 | 13°39 | 3°53 | 25° 7 | M26 | |
| T 27 | 0 27 2 | 4°57'43 | 28° 9 | 24°44 | 3°53 | 16°45 | 11°30 | 7°59 | 28°54 | 27°41 | 11°44 | 14°16 | 13°36 | 4° 0 | 25° 5 | T 27 | |
| W28 | 0 30 58 | 5°56'16 | 10♏47 | 26°35 | 5° 8 | 17°22 | 11°42 | 8° 7 | 28°52 | 27°43 | 11°43 | 14° 3 | 13°33 | 4° 6 | 25° 3 | W28 | |
| T 29 | 0 34 55 | 6°54'50 | 23°13 | 28°27 | 6°23 | 17°59 | 11°55 | 8°14 | 28°50 | 27°46 | 11°42 | 13°49 | 13°30 | 4°13 | 25° 1 | T 29 | |
| F 30 | 0 38 51 | 7♏53'27 | 5♎26 | 0♏18 | 7♏37 | 18♏36 | 12♎7 | 8♎21 | 28♎47 | 27♎48 | 11♎41 | 13♏37 | 13♏27 | 4♎20 | 24♏59 | F 30 | |

Delta T = 19m59s

OCTOBER 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|------|--------|------|-----|
| S 1 | 0 42 48 | 8♏52°06 | 17♎30 | 2♏10 | 8♏52 | 19♏13 | 12♎20 | 8♎28 | 28°R45 | 27♎50 | 11°R40 | 13°R26 | 13♏23 | 4♎26 | 24°R57 | S 1 | |
| S 2 | 0 46 44 | 9°50'47 | 29°24 | 4° 1 | 10° 7 | 19°50 | 12°32 | 8°35 | 28♎43 | 27°52 | 11♎39 | 13♏18 | 13°20 | 4°33 | 24♏55 | S 2 | |
| M 3 | 0 50 41 | 10°49'30 | 11♎13 | 5°52 | 11°21 | 20°27 | 12°44 | 8°42 | 28°40 | 27°54 | 11°38 | 13°13 | 13°17 | 4°40 | 24°53 | M 3 | |
| T 4 | 0 54 37 | 11°48'15 | 23° 2 | 7°43 | 12°36 | 21° 4 | 12°56 | 8°48 | 28°38 | 27°57 | 11°37 | 13°11 | 13°14 | 4°46 | 24°51 | T 4 | |
| W 5 | 0 58 34 | 12°47'02 | 4♏54 | 9°32 | 13°51 | 21°40 | 13° 9 | 8°55 | 28°36 | 27°59 | 11°36 | 13°10 | 13°11 | 4°53 | 24°49 | W 5 | |
| T 6 | 1 2 31 | 13°45'52 | 16°55 | 11°22 | 15° 6 | 22°17 | 13°21 | 9° 2 | 28°33 | 28° 1 | 11°35 | 13°10 | 13° 7 | 5° 0 | 24°48 | T 6 | |
| F 7 | 1 6 27 | 14°44'44 | 29°10 | 13°10 | 16°21 | 22°54 | 13°33 | 9° 9 | 28°31 | 28° 3 | 11°35 | 13° 9 | 13° 4 | 5° 6 | 24°46 | F 7 | |
| S 8 | 1 10 24 | 15°43'38 | 11♏46 | 14°58 | 17°35 | 23°30 | 13°45 | 9°16 | 28°29 | 28° 5 | 11°34 | 13° 7 | 13° 1 | 5°13 | 24°44 | S 8 | |
| S 9 | 1 14 20 | 16°42'34 | 24°45 | 16°45 | 18°50 | 24° 7 | 13°57 | 9°22 | 28°27 | 28° 7 | 11°33 | 13° 3 | 12°58 | 5°20 | 24°43 | S 9 | |
| M10 | 1 18 17 | 17°41'33 | 8♎12 | 18°31 | 20° 5 | 24°43 | 14° 9 | 9°29 | 28°24 | 28° 9 | 11°31 | 12°57 | 12°55 | 5°26 | 24°41 | M10 | |
| T 11 | 1 22 13 | 18°40'33 | 22° 7 | 20°16 | 21°20 | 25°19 | 14°21 | 9°35 | 28°22 | 28°12 | 11°30 | 12°47 | 12°52 | 5°33 | 24°40 | T 11 | |
| W12 | 1 26 10 | 19°39'36 | 6♏27 | 22° 0 | 22°35 | 25°55 | 14°33 | 9°42 | 28°20 | 28°14 | 11°29 | 12°36 | 12°48 | 5°40 | 24°38 | W12 | |
| T 13 | 1 30 6 | 20°38'41 | 21° 8 | 23°44 | 23°49 | 26°32 | 14°44 | 9°48 | 28°18 | 28°16 | 11°28 | 12°25 | 12°45 | 5°46 | 24°37 | T 13 | |
| F 14 | 1 34 3 | 21°37'48 | 6♎2 | 25°27 | 25° 4 | 27° 8 | 14°56 | 9°55 | 28°16 | 28°18 | 11°27 | 12°14 | 12°42 | 5°53 | 24°36 | F 14 | |
| S 15 | 1 37 59 | 22°36'56 | 20°58 | 27° 9 | 26°19 | 27°44 | 15° 8 | 10° 1 | 28°13 | 28°20 | 11°26 | 12° 4 | 12°39 | 6° 0 | 24°35 | S 15 | |
| S 16 | 1 41 56 | 23°36'07 | 5♏50 | 28°50 | 27°34 | 28°20 | 15°19 | 10° 7 | 28°11 | 28°22 | 11°25 | 11°58 | 12°36 | 6° 6 | 24°33 | S 16 | |
| M17 | 1 45 53 | 24°35'20 | 20°29 | 0♎30 | 28°49 | 28°55 | 15°31 | 10°14 | 28° 9 | 28°24 | 11°24 | 11°54 | 12°33 | 6°13 | 24°32 | M17 | |
| T 18 | 1 49 49 | 25°34'34 | 4♎50 | 2°10 | 0♎4 | 29°31 | 15°42 | 10°20 | 28° 7 | 28°26 | 11°23 | 11°53 | 12°29 | 6°20 | 24°31 | T 18 | |
| W19 | 1 53 46 | 26°33'50 | 18°53 | 3°49 | 1°19 | 0♎7 | 15°54 | 10°26 | 28° 5 | 28°28 | 11°22 | 11°D53 | 12°26 | 6°26 | 24°30 | W19 | |
| T 20 | 1 57 42 | 27°33'08 | 2♎36 | 5°27 | 2°34 | 0°42 | 16° 5 | 10°32 | 28° 3 | 28°30 | 11°21 | 11°R53 | 12°23 | 6°33 | 24°30 | T 20 | |
| F 21 | 2 1 39 | 28°32'27 | 16° 2 | 7° 4 | 3°49 | 1°18 | 16°16 | 10°38 | 28° 1 | 28°32 | 11°20 | 11°52 | 12°20 | 6°40 | 24°29 | F 21 | |
| S 22 | 2 5 35 | 29°31'48 | 29°11 | 8°40 | 5° 4 | 1°53 | 16°27 | 10°44 | 27°59 | 28°34 | 11°19 | 11°48 | 12°17 | 6°46 | 24°28 | S 22 | |
| S 23 | 2 9 32 | 0♎31°11 | 12♎7 | 10°16 | 6°18 | 2°29 | 16°38 | 10°50 | 27°57 | 28°36 | 11°18 | 11°42 | 12°13 | 6°53 | 24°27 | S 23 | |
| M24 | 2 13 28 | 1°30'35 | 24°50 | 11°52 | 7°33 | 3° 4 | 16°49 | 10°56 | 27°55 | 28°38 | 11°16 | 11°33 | 12°10 | 7° 0 | 24°27 | M24 | |
| T 25 | 2 17 25 | 2°30'02 | 7♎22 | 13°26 | 8°48 | 3°39 | 17° 0 | 11° 1 | 27°54 | 28°40 | 11°15 | 11°22 | 12° 7 | 7° 6 | 24°26 | T 25 | |
| W26 | 2 21 22 | 3°29'30 | 19°44 | 15° 0 | 10° 3 | 4°14 | 17°11 | 11° 7 | 27°52 | 28°42 | 11°14 | 11°10 | 12° 4 | 7°13 | 24°26 | W26 | |
| T 27 | 2 25 18 | 4°29'00 | 1♎57 | 16°33 | 11°18 | 4°49 | 17°22 | 11°13 | 27°50 | 28°44 | 11°13 | 10°57 | 12° 1 | 7°20 | 24°25 | T 27 | |
| F 28 | 2 29 15 | 5°28'32 | 14° 1 | 18° 6 | 12°33 | 5°24 | 17°32 | 11°18 | 27°48 | 28°46 | 11°12 | 10°46 | 11°58 | 7°26 | 24°25 | F 28 | |
| S 29 | 2 33 11 | 6°28'06 | 25°58 | 19°38 | 13°48 | 5°59 | 17°43 | 11°24 | 27°46 | 28°47 | 11°11 | 10°36 | 11°54 | 7°33 | 24°25 | S 29 | |
| S 30 | 2 37 8 | 7°27'43 | 7♎48 | 21° 9 | 15° 3 | 6°33 | 17°54 | 11°29 | 27°45 | 28°49 | 11°10 | 10°28 | 11°51 | 7°40 | 24°24 | S 30 | |
| M31 | 2 41 4 | 8♎27'21 | 19♎36 | 22♎40 | 16♎18 | 7♎8 | 18♎4 | 11♎34 | 27♎43 | 28♎51 | 11♎9 | 10♏23 | 11♏48 | 7♎46 | 24♏24 | M31 | |

Delta T = 19m59s

ASTRODIENST EPHEMERIS for the year 2596
geocentric

NOVEMBER 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|------|-----|
| T 1 | 2 45 1 | 9♐27'02 | 1♌23 | 24♐10 | 17♐33 | 7♐43 | 18♐14 | 11♐40 | 27°R42 | 28♐53 | 11°R 7 | 10°R21 | 11♌45 | 7♐53 | 24°R24 | T 1 | |
| W 2 | 2 48 57 | 10°26'45 | 13°15 | 25°40 | 18°48 | 8°17 | 18°25 | 11°45 | 27°K40 | 28°55 | 11♌ 6 | 10°D20 | 11°42 | 8° 0 | 24°D24 | W 2 | |
| T 3 | 2 52 54 | 11°26'30 | 25°14 | 27° 9 | 20° 3 | 8°51 | 18°35 | 11°50 | 27°38 | 28°56 | 11° 5 | 10♌21 | 11°39 | 8° 6 | 24°K24 | T 3 | |
| F 4 | 2 56 51 | 12°26'17 | 7♏27 | 28°38 | 21°18 | 9°26 | 18°45 | 11°55 | 27°37 | 28°58 | 11° 4 | 10°R22 | 11°35 | 8°13 | 24°24 | F 4 | |
| S 5 | 3 0 47 | 13°26'06 | 19°59 | 0♌ 5 | 22°33 | 10° 0 | 18°55 | 12° 0 | 27°35 | 29° 0 | 11° 3 | 10°22 | 11°32 | 8°20 | 24°24 | S 5 | |
| S 6 | 3 4 44 | 14°25'57 | 2♐54 | 1°33 | 23°48 | 10°34 | 19° 5 | 12° 5 | 27°34 | 29° 2 | 11° 2 | 10°20 | 11°29 | 8°26 | 24°25 | S 6 | |
| M 7 | 3 8 40 | 15°25'51 | 16°17 | 2°59 | 25° 3 | 11° 8 | 19°14 | 12°10 | 27°33 | 29° 3 | 11° 1 | 10°16 | 11°26 | 8°33 | 24°25 | M 7 | |
| T 8 | 3 12 37 | 16°25'47 | 0♌ 9 | 4°25 | 26°18 | 11°42 | 19°24 | 12°14 | 27°31 | 29° 5 | 11° 0 | 10°10 | 11°23 | 8°40 | 24°25 | T 8 | |
| W 9 | 3 16 33 | 17°25'45 | 14°31 | 5°50 | 27°33 | 12°15 | 19°34 | 12°19 | 27°30 | 29° 7 | 10°58 | 10° 2 | 11°19 | 8°46 | 24°26 | W 9 | |
| T 10 | 3 20 30 | 18°25'45 | 29°17 | 7°15 | 28°48 | 12°49 | 19°43 | 12°24 | 27°29 | 29° 8 | 10°57 | 9°54 | 11°16 | 8°53 | 24°26 | T 10 | |
| F 11 | 3 24 26 | 19°25'46 | 14♐22 | 8°39 | 0♌ 3 | 13°23 | 19°52 | 12°28 | 27°28 | 29°10 | 10°56 | 9°46 | 11°13 | 9° 0 | 24°27 | F 11 | |
| S 12 | 3 28 23 | 20°25'50 | 29°35 | 10° 2 | 1°18 | 13°56 | 20° 2 | 12°32 | 27°26 | 29°11 | 10°55 | 9°39 | 11°10 | 9° 6 | 24°27 | S 12 | |
| S 13 | 3 32 20 | 21°25'56 | 14♌45 | 11°24 | 2°33 | 14°29 | 20°11 | 12°37 | 27°25 | 29°13 | 10°54 | 9°35 | 11° 7 | 9°13 | 24°28 | S 13 | |
| M14 | 3 36 16 | 22°26'03 | 29°44 | 12°45 | 3°48 | 15° 3 | 20°20 | 12°41 | 27°24 | 29°14 | 10°53 | 9°33 | 11° 4 | 9°20 | 24°29 | M14 | |
| T 15 | 3 40 13 | 23°26'13 | 14♌24 | 14° 5 | 5° 3 | 15°36 | 20°29 | 12°45 | 27°23 | 29°16 | 10°52 | 9°D32 | 11° 0 | 9°26 | 24°30 | T 15 | |
| W16 | 3 44 9 | 24°26'23 | 28°40 | 15°24 | 6°18 | 16° 9 | 20°37 | 12°49 | 27°22 | 29°17 | 10°51 | 9°33 | 10°57 | 9°33 | 24°31 | W16 | |
| T 17 | 3 48 6 | 25°26'35 | 12♌32 | 16°41 | 7°33 | 16°42 | 20°46 | 12°53 | 27°21 | 29°19 | 10°50 | 9°35 | 10°54 | 9°40 | 24°32 | T 17 | |
| F 18 | 3 52 2 | 26°26'48 | 26° 0 | 17°57 | 8°48 | 17°14 | 20°55 | 12°57 | 27°20 | 29°20 | 10°48 | 9°R35 | 10°51 | 9°46 | 24°33 | F 18 | |
| S 19 | 3 55 59 | 27°27'03 | 9♌ 6 | 19°12 | 10° 3 | 17°47 | 21° 3 | 13° 1 | 27°19 | 29°21 | 10°47 | 9°34 | 10°48 | 9°53 | 24°34 | S 19 | |
| S 20 | 3 59 55 | 28°27'19 | 21°53 | 20°25 | 11°18 | 18°19 | 21°11 | 13° 4 | 27°19 | 29°23 | 10°46 | 9°32 | 10°45 | 10° 0 | 24°35 | S 20 | |
| M21 | 4 3 52 | 29°27'37 | 4♐25 | 21°36 | 12°33 | 18°52 | 21°20 | 13° 8 | 27°18 | 29°24 | 10°45 | 9°27 | 10°41 | 10° 6 | 24°36 | M21 | |
| T 22 | 4 7 49 | 0♌27'56 | 16°45 | 22°45 | 13°48 | 19°24 | 21°28 | 13°11 | 27°17 | 29°25 | 10°44 | 9°21 | 10°38 | 10°13 | 24°37 | T 22 | |
| W23 | 4 11 45 | 1°28'16 | 28°54 | 23°51 | 15° 3 | 19°56 | 21°36 | 13°15 | 27°16 | 29°27 | 10°43 | 9°14 | 10°35 | 10°20 | 24°39 | W23 | |
| T 24 | 4 15 42 | 2°28'38 | 10♌55 | 24°54 | 16°18 | 20°28 | 21°43 | 13°18 | 27°16 | 29°28 | 10°42 | 9° 7 | 10°32 | 10°26 | 24°40 | T 24 | |
| F 25 | 4 19 38 | 3°29'02 | 22°51 | 25°55 | 17°33 | 21° 0 | 21°51 | 13°21 | 27°15 | 29°29 | 10°41 | 9° 0 | 10°29 | 10°33 | 24°42 | F 25 | |
| S 26 | 4 23 35 | 4°29'27 | 4♐42 | 26°51 | 18°48 | 21°32 | 21°58 | 13°24 | 27°15 | 29°30 | 10°40 | 8°55 | 10°25 | 10°40 | 24°43 | S 26 | |
| S 27 | 4 27 31 | 5°29'53 | 16°31 | 27°44 | 20° 3 | 22° 3 | 22° 6 | 13°27 | 27°14 | 29°31 | 10°39 | 8°51 | 10°22 | 10°46 | 24°45 | S 27 | |
| M28 | 4 31 28 | 6°30'22 | 28°19 | 28°32 | 21°18 | 22°35 | 22°13 | 13°30 | 27°14 | 29°33 | 10°38 | 8°49 | 10°19 | 10°53 | 24°47 | M28 | |
| T 29 | 4 35 24 | 7°30'51 | 10♌ 9 | 29°15 | 22°33 | 23° 6 | 22°20 | 13°33 | 27°14 | 29°34 | 10°37 | 8°D48 | 10°16 | 11° 0 | 24°48 | T 29 | |
| W30 | 4 39 21 | 8°31'23 | 22♌ 4 | 29°52 | 23°48 | 23♐37 | 22°27 | 13♐36 | 27°K13 | 29°R35 | 10♌36 | 8°E49 | 10♌13 | 11♐ 6 | 24°K50 | W30 | |

Delta T = 20m00s

DECEMBER 2596

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|--------|------|-----|
| T 1 | 4 43 18 | 9♐31'56 | 4♏ 7 | 0♌23 | 25♌ 3 | 24♐ 8 | 22♐34 | 13♐38 | 27°R13 | 29♐36 | 10°R35 | 8♌50 | 10♌10 | 11♐13 | 24°K52 | T 1 | |
| F 2 | 4 47 14 | 10°32'31 | 16°22 | 0°47 | 26°18 | 24°39 | 22°41 | 13°41 | 27°K13 | 29°37 | 10♌34 | 8°52 | 10° 6 | 11°20 | 24°54 | F 2 | |
| S 3 | 4 51 11 | 11°33'07 | 28°53 | 1° 2 | 27°33 | 25°10 | 22°47 | 13°43 | 27°13 | 29°38 | 10°33 | 8°54 | 10° 3 | 11°26 | 24°56 | S 3 | |
| S 4 | 4 55 7 | 12°33'45 | 11♐44 | 1°R 9 | 28°48 | 25°40 | 22°54 | 13°45 | 27°12 | 29°39 | 10°32 | 8°R54 | 10° 0 | 11°33 | 24°58 | S 4 | |
| M 5 | 4 59 4 | 13°34'25 | 24°59 | 1° 6 | 0♌ 3 | 26°11 | 23° 0 | 13°47 | 27°12 | 29°39 | 10°31 | 8°54 | 9°57 | 11°40 | 25° 0 | M 5 | |
| T 6 | 5 3 0 | 14°35'06 | 8♌41 | 0°53 | 1°18 | 26°41 | 23° 6 | 13°49 | 27°D12 | 29°40 | 10°30 | 8°52 | 9°54 | 11°46 | 25° 2 | T 6 | |
| W 7 | 5 6 57 | 15°35'49 | 22°50 | 0°29 | 2°33 | 27°11 | 23°12 | 13°51 | 27°12 | 29°41 | 10°29 | 8°50 | 9°50 | 11°53 | 25° 5 | W 7 | |
| T 8 | 5 10 53 | 16°36'33 | 7♐26 | 29♌55 | 3°48 | 27°41 | 23°18 | 13°53 | 27°13 | 29°42 | 10°29 | 8°47 | 9°47 | 12° 0 | 25° 7 | T 8 | |
| F 9 | 5 14 50 | 17°37'19 | 22°23 | 29° 9 | 5° 3 | 28°11 | 23°23 | 13°55 | 27°13 | 29°43 | 10°28 | 8°43 | 9°44 | 12° 6 | 25° 9 | F 9 | |
| S 10 | 5 18 47 | 18°38'07 | 7♌34 | 28°13 | 6°19 | 28°40 | 23°29 | 13°57 | 27°13 | 29°44 | 10°27 | 8°41 | 9°41 | 12°13 | 25°12 | S 10 | |
| S 11 | 5 22 43 | 19°38'56 | 22°49 | 27° 8 | 7°34 | 29°10 | 23°34 | 13°58 | 27°13 | 29°44 | 10°26 | 8°39 | 9°38 | 12°20 | 25°14 | S 11 | |
| M12 | 5 26 40 | 20°39'45 | 7♌57 | 25°54 | 8°49 | 29°39 | 23°39 | 14° 0 | 27°13 | 29°45 | 10°25 | 8°D39 | 9°35 | 12°26 | 25°17 | M12 | |
| T 13 | 5 30 36 | 21°40'36 | 22°51 | 24°35 | 10° 4 | 0♌ 8 | 23°44 | 14° 1 | 27°14 | 29°46 | 10°24 | 8°39 | 9°31 | 12°33 | 25°19 | T 13 | |
| W14 | 5 34 33 | 22°41'28 | 7♌23 | 23°13 | 11°19 | 0°37 | 23°49 | 14° 2 | 27°14 | 29°46 | 10°24 | 8°40 | 9°28 | 12°40 | 25°22 | W14 | |
| T 15 | 5 38 29 | 23°42'21 | 21°28 | 21°50 | 12°34 | 1° 5 | 23°54 | 14° 3 | 27°15 | 29°47 | 10°23 | 8°42 | 9°25 | 12°46 | 25°25 | T 15 | |
| F 16 | 5 42 26 | 24°43'14 | 5♌ 7 | 20°30 | 13°49 | 1°34 | 23°58 | 14° 4 | 27°15 | 29°47 | 10°22 | 8°43 | 9°22 | 12°53 | 25°27 | F 16 | |
| S 17 | 5 46 23 | 25°44'08 | 18°19 | 19°14 | 15° 4 | 2° 2 | 24° 2 | 14° 5 | 27°16 | 29°48 | 10°21 | 8°43 | 9°19 | 13° 0 | 25°30 | S 17 | |
| S 18 | 5 50 19 | 26°45'02 | 1♐ 8 | 18° 6 | 16°19 | 2°30 | 24° 7 | 14° 6 | 27°16 | 29°48 | 10°20 | 8°R43 | 9°16 | 13° 6 | 25°33 | S 18 | |
| M19 | 5 54 16 | 27°45'58 | 13°38 | 17° 7 | 17°34 | 2°58 | 24°11 | 14° 6 | 27°17 | 29°49 | 10°20 | 8°43 | 9°12 | 13°13 | 25°36 | M19 | |
| T 20 | 5 58 12 | 28°46'53 | 25°52 | 16°18 | 18°49 | 3°25 | 24°14 | 14° 7 | 27°18 | 29°49 | 10°19 | 8°42 | 9° 9 | 13°20 | 25°39 | T 20 | |
| W21 | 6 2 9 | 29°47'50 | 7♌54 | 15°40 | 20° 3 | 3°53 | 24°18 | 14° 7 | 27°18 | 29°49 | 10°18 | 8°41 | 9° 6 | 13°26 | 25°42 | W21 | |
| T 22 | 6 6 5 | 0♌48'47 | 19°49 | 15°13 | 21°18 | 4°20 | 24°21 | 14° 7 | 27°19 | 29°50 | 10°18 | 8°39 | 9° 3 | 13°33 | 25°45 | T 22 | |
| F 23 | 6 10 2 | 1°49'45 | 1♐39 | 14°57 | 22°33 | 4°47 | 24°25 | 14° 8 | 27°20 | 29°50 | 10°17 | 8°38 | 9° 0 | 13°40 | 25°48 | F 23 | |
| S 24 | 6 13 58 | 2°50'44 | 13°27 | 14°D52 | 23°48 | 5°14 | 24°28 | 14°R 8 | 27°21 | 29°50 | 10°16 | 8°38 | 8°56 | 13°46 | 25°51 | S 24 | |
| S 25 | 6 17 55 | 3°51'43 | 25°16 | 14°57 | 25° 3 | 5°40 | 24°31 | 14° 8 | 27°22 | 29°51 | 10°16 | 8°37 | 8°53 | 13°53 | 25°54 | S 25 | |
| M26 | 6 21 52 | 4°52'43 | 7♌ 9 | 15°11 | 26°18 | 6° 6 | 24°33 | 14° 8 | 27°23 | 29°51 | 10°15 | 8°D37 | 8°50 | 14° 0 | 25°57 | M26 | |
| T 27 | 6 25 48 | 5°53'43 | 19° 7 | 15°34 | 27°33 | 6°32 | 24°36 | 14° 7 | 27°24 | 29°51 | 10°15 | 8°37 | 8°47 | 14° 6 | 26° 1 | T 27 | |
| W28 | 6 29 45 | 6°54'44 | 1♏11 | 16° 5 | 28°48 | 6°58 | 24°38 | 14° 7 | 27°25 | 29°51 | 10°14 | 8°37 | 8°44 | 14°13 | 26° 4 | W28 | |
| T 29 | 6 33 41 | 7°55'46 | 13°25 | 16°42 | 0♌ 3 | 7°24 | 24°40 | 14° 6 | 27°26 | 29°51 | 10°13 | 8°37 | 8°41 | 14°20 | 26° 7 | T 29 | |
| F 30 | 6 37 38 | 8°56'49 | 25°50 | 17°25 | 1°18 | 7°49 | 24°42 | 14° 6 | 27°27 | 29°51 | 10°13 | 8°R37 | 8°37 | 14°26 | 26°11 | F 30 | |
| S 31 | 6 41 34 | 9♌57'52 | 8♐29 | 18♌14 | 2♌33 | 8♌14 | 24♐44 | 14♐ 5 | 27°K29 | 29°R51 | 10♌12 | 8°E37 | 8°E34 | 14♐33 | 26°K14 | S 31 | |

Delta T = 20m00s

ASTRODIENST EPHEMERIS for the year 2597
geocentric

JANUARY 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|-----------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|-------------------|---------------------|--------------------|------|-----|
| S 1 | 6 45 31 | 10 ³ 58'56 | 21 ¹¹ 23 | 19 ²⁷ 8 | 3 ³ 47 | 8 ¹ 39 | 24 ¹¹ 46 | 14 ⁰ R 4 | 27 ¹ 30 | 29 ⁰ R51 | 10 ⁰ R12 | 8 ⁰ R37 | 8 ⁰ 31 | 14 ¹¹ 40 | 26 ² 18 | S 1 | |
| M 2 | 6 49 27 | 12 ⁰ 0'01 | 4 ¹ 36 | 20 ⁰ 5 | 5 ⁰ 2 | 9 ⁰ 3 | 24 ⁰ 47 | 14 ¹¹ 3 | 27 ⁰ 31 | 29 ¹¹ 51 | 10 ⁰ 12 | 8 ⁰ 37 | 8 ⁰ 28 | 14 ⁰ 46 | 26 ⁰ 21 | M 2 | |
| T 3 | 6 53 24 | 13 ⁰ 1'06 | 18 ⁰ 10 | 21 ⁰ 7 | 6 ⁰ 17 | 9 ⁰ 27 | 24 ⁰ 48 | 14 ⁰ 2 | 27 ⁰ 33 | 29 ⁰ 51 | 10 ⁰ 11 | 8 ⁰ D37 | 8 ⁰ 25 | 14 ⁰ 53 | 26 ⁰ 25 | T 3 | |
| W 4 | 6 57 21 | 14 ⁰ 2'12 | 2 ¹¹ 5 | 22 ⁰ 12 | 7 ⁰ 32 | 9 ⁰ 51 | 24 ⁰ 49 | 14 ⁰ 1 | 27 ⁰ 34 | 29 ⁰ 51 | 10 ⁰ 11 | 8 ⁰ 37 | 8 ⁰ 22 | 15 ⁰ 0 | 26 ⁰ 28 | W 4 | |
| T 5 | 7 1 17 | 15 ⁰ 3'19 | 16 ⁰ 22 | 23 ⁰ 19 | 8 ⁰ 47 | 10 ⁰ 15 | 24 ⁰ 50 | 14 ⁰ 0 | 27 ⁰ 36 | 29 ⁰ 51 | 10 ⁰ 10 | 8 ⁰ 38 | 8 ⁰ 18 | 15 ⁰ 6 | 26 ⁰ 32 | T 5 | |
| F 6 | 7 5 14 | 16 ⁰ 4'26 | 0 ²⁷ 58 | 24 ⁰ 30 | 10 ⁰ 2 | 10 ⁰ 38 | 24 ⁰ 51 | 13 ⁰ 59 | 27 ⁰ 37 | 29 ⁰ 51 | 10 ⁰ 10 | 8 ⁰ 38 | 8 ⁰ 15 | 15 ⁰ 13 | 26 ⁰ 36 | F 6 | |
| S 7 | 7 9 10 | 17 ⁰ 5'34 | 15 ⁰ 49 | 25 ⁰ 42 | 11 ⁰ 16 | 11 ⁰ 1 | 24 ⁰ 51 | 13 ⁰ 57 | 27 ⁰ 39 | 29 ⁰ 50 | 10 ⁰ 10 | 8 ⁰ 39 | 8 ⁰ 12 | 15 ⁰ 19 | 26 ⁰ 39 | S 7 | |
| S 8 | 7 13 7 | 18 ⁰ 6'43 | 0 ³ 49 | 26 ⁰ 57 | 12 ⁰ 31 | 11 ⁰ 24 | 24 ⁰ 51 | 13 ⁰ 55 | 27 ⁰ 40 | 29 ⁰ 50 | 10 ⁰ 9 | 8 ⁰ 39 | 8 ⁰ 9 | 15 ⁰ 26 | 26 ⁰ 43 | S 8 | |
| M 9 | 7 17 3 | 19 ⁰ 7'51 | 15 ⁰ 49 | 28 ⁰ 13 | 13 ⁰ 46 | 11 ⁰ 46 | 24 ⁰ R51 | 13 ⁰ 54 | 27 ⁰ 42 | 29 ⁰ 50 | 10 ⁰ 9 | 8 ⁰ R39 | 8 ⁰ 6 | 15 ⁰ 33 | 26 ⁰ 47 | M 9 | |
| T 10 | 7 21 0 | 20 ⁰ 9'00 | 0 ² 41 | 29 ⁰ 31 | 15 ⁰ 1 | 12 ⁰ 8 | 24 ⁰ 51 | 13 ⁰ 52 | 27 ⁰ 44 | 29 ⁰ 50 | 10 ⁰ 9 | 8 ⁰ 39 | 8 ⁰ 3 | 15 ⁰ 39 | 26 ⁰ 51 | T 10 | |
| W 11 | 7 24 57 | 21 ⁰ 10'09 | 15 ⁰ 17 | 0 ³ 50 | 16 ⁰ 15 | 12 ⁰ 30 | 24 ⁰ 51 | 13 ⁰ 50 | 27 ⁰ 46 | 29 ⁰ 49 | 10 ⁰ 8 | 8 ⁰ 38 | 7 ⁰ 59 | 15 ⁰ 46 | 26 ⁰ 55 | W 11 | |
| T 12 | 7 28 53 | 22 ⁰ 11'18 | 29 ⁰ 31 | 2 ⁰ 11 | 17 ⁰ 30 | 12 ⁰ 51 | 24 ⁰ 50 | 13 ⁰ 48 | 27 ⁰ 47 | 29 ⁰ 49 | 10 ⁰ 8 | 8 ⁰ 36 | 7 ⁰ 56 | 15 ⁰ 53 | 26 ⁰ 59 | T 12 | |
| F 13 | 7 32 50 | 23 ⁰ 12'26 | 13 ¹ 20 | 3 ⁰ 32 | 18 ⁰ 45 | 13 ⁰ 12 | 24 ⁰ 50 | 13 ⁰ 46 | 27 ⁰ 49 | 29 ⁰ 48 | 10 ⁰ 8 | 8 ⁰ 34 | 7 ⁰ 53 | 15 ⁰ 59 | 27 ⁰ 3 | F 13 | |
| S 14 | 7 36 46 | 24 ⁰ 13'35 | 26 ⁰ 41 | 4 ⁰ 55 | 19 ⁰ 59 | 13 ⁰ 33 | 24 ⁰ 49 | 13 ⁰ 44 | 27 ⁰ 51 | 29 ⁰ 48 | 10 ⁰ 8 | 8 ⁰ 32 | 7 ⁰ 50 | 16 ⁰ 6 | 27 ⁰ 7 | S 14 | |
| S 15 | 7 40 43 | 25 ⁰ 14'43 | 9 ⁰ 37 | 6 ⁰ 19 | 21 ⁰ 14 | 13 ⁰ 53 | 24 ⁰ 48 | 13 ⁰ 41 | 27 ⁰ 53 | 29 ⁰ 48 | 10 ⁰ 7 | 8 ⁰ 31 | 7 ⁰ 47 | 16 ⁰ 13 | 27 ⁰ 11 | S 15 | |
| M 16 | 7 44 39 | 26 ⁰ 15'50 | 22 ⁰ 11 | 7 ⁰ 43 | 22 ⁰ 29 | 14 ⁰ 13 | 24 ⁰ 46 | 13 ⁰ 39 | 27 ⁰ 55 | 29 ⁰ 47 | 10 ⁰ 7 | 8 ⁰ D30 | 7 ⁰ 43 | 16 ⁰ 19 | 27 ⁰ 15 | M 16 | |
| T 17 | 7 48 36 | 27 ⁰ 16'58 | 4 ⁰ 26 | 9 ⁰ 8 | 23 ⁰ 43 | 14 ⁰ 33 | 24 ⁰ 45 | 13 ⁰ 37 | 27 ⁰ 57 | 29 ⁰ 46 | 10 ⁰ 7 | 8 ⁰ 30 | 7 ⁰ 40 | 16 ⁰ 26 | 27 ⁰ 19 | T 17 | |
| W 18 | 7 52 32 | 28 ⁰ 18'04 | 16 ⁰ 27 | 10 ⁰ 35 | 24 ⁰ 58 | 14 ⁰ 52 | 24 ⁰ 43 | 13 ⁰ 34 | 27 ⁰ 59 | 29 ⁰ 46 | 10 ⁰ 7 | 8 ⁰ 31 | 7 ⁰ 37 | 16 ⁰ 33 | 27 ⁰ 23 | W 18 | |
| T 19 | 7 56 29 | 29 ⁰ 19'11 | 28 ⁰ 19 | 12 ⁰ 1 | 26 ⁰ 12 | 15 ⁰ 10 | 24 ⁰ 41 | 13 ⁰ 31 | 28 ⁰ 1 | 29 ⁰ 45 | 10 ⁰ 7 | 8 ⁰ 32 | 7 ⁰ 34 | 16 ⁰ 39 | 27 ⁰ 27 | T 19 | |
| F 20 | 8 0 25 | 0 ² 20'17 | 10 ¹¹ 7 | 13 ⁰ 29 | 27 ⁰ 27 | 15 ⁰ 29 | 24 ⁰ 39 | 13 ⁰ 28 | 28 ⁰ 4 | 29 ⁰ 45 | 10 ⁰ 7 | 8 ⁰ 34 | 7 ⁰ 31 | 16 ⁰ 46 | 27 ⁰ 31 | F 20 | |
| S 21 | 8 4 22 | 1 ⁰ 21'23 | 21 ⁰ 55 | 14 ⁰ 57 | 28 ⁰ 41 | 15 ⁰ 47 | 24 ⁰ 37 | 13 ⁰ 26 | 28 ⁰ 6 | 29 ⁰ 44 | 10 ⁰ 7 | 8 ⁰ 36 | 7 ⁰ 28 | 16 ⁰ 53 | 27 ⁰ 35 | S 21 | |
| S 22 | 8 8 19 | 2 ⁰ 22'28 | 3 ⁰ 47 | 16 ⁰ 26 | 29 ⁰ 56 | 16 ⁰ 4 | 24 ⁰ 34 | 13 ⁰ 23 | 28 ⁰ 8 | 29 ⁰ 43 | 10 ⁰ 7 | 8 ⁰ R37 | 7 ⁰ 24 | 16 ⁰ 59 | 27 ⁰ 39 | S 22 | |
| M 23 | 8 12 15 | 3 ⁰ 23'32 | 15 ⁰ 45 | 17 ⁰ 55 | 1 ¹¹ 10 | 16 ⁰ 21 | 24 ⁰ 32 | 13 ⁰ 20 | 28 ⁰ 10 | 29 ⁰ 43 | 10 ⁰ D 7 | 8 ⁰ 37 | 7 ⁰ 21 | 17 ⁰ 6 | 27 ⁰ 44 | M 23 | |
| T 24 | 8 16 12 | 4 ⁰ 24'37 | 27 ⁰ 53 | 19 ⁰ 25 | 2 ⁰ 25 | 16 ⁰ 38 | 24 ⁰ 29 | 13 ⁰ 16 | 28 ⁰ 13 | 29 ⁰ 42 | 10 ⁰ 7 | 8 ⁰ 35 | 7 ⁰ 18 | 17 ⁰ 13 | 27 ⁰ 48 | T 24 | |
| W 25 | 8 20 8 | 5 ⁰ 25'40 | 10 ⁰ 12 | 20 ⁰ 55 | 3 ⁰ 39 | 16 ⁰ 54 | 24 ⁰ 26 | 13 ⁰ 13 | 28 ⁰ 15 | 29 ⁰ 41 | 10 ⁰ 7 | 8 ⁰ 32 | 7 ⁰ 15 | 17 ⁰ 19 | 27 ⁰ 52 | W 25 | |
| T 26 | 8 24 5 | 6 ⁰ 26'44 | 22 ⁰ 43 | 22 ⁰ 26 | 4 ⁰ 53 | 17 ⁰ 10 | 24 ⁰ 23 | 13 ⁰ 10 | 28 ⁰ 17 | 29 ⁰ 40 | 10 ⁰ 7 | 8 ⁰ 28 | 7 ⁰ 12 | 17 ⁰ 26 | 27 ⁰ 56 | T 26 | |
| F 27 | 8 28 1 | 7 ⁰ 27'47 | 5 ⁰ 27 | 23 ⁰ 58 | 6 ⁰ 7 | 17 ⁰ 25 | 24 ⁰ 19 | 13 ⁰ 6 | 28 ⁰ 20 | 29 ⁰ 39 | 10 ⁰ 7 | 8 ⁰ 23 | 7 ⁰ 8 | 17 ⁰ 33 | 28 ⁰ 1 | F 27 | |
| S 28 | 8 31 58 | 8 ⁰ 28'49 | 18 ⁰ 24 | 25 ⁰ 30 | 7 ⁰ 22 | 17 ⁰ 40 | 24 ⁰ 16 | 13 ⁰ 3 | 28 ⁰ 22 | 29 ⁰ 38 | 10 ⁰ 7 | 8 ⁰ 18 | 7 ⁰ 5 | 17 ⁰ 39 | 28 ⁰ 5 | S 28 | |
| S 29 | 8 35 55 | 9 ⁰ 29'51 | 1 ⁰ 34 | 27 ⁰ 2 | 8 ⁰ 36 | 17 ⁰ 54 | 24 ⁰ 12 | 12 ⁰ 59 | 28 ⁰ 25 | 29 ⁰ 38 | 10 ⁰ 7 | 8 ⁰ 13 | 7 ⁰ 2 | 17 ⁰ 46 | 28 ⁰ 9 | S 29 | |
| M 30 | 8 39 51 | 10 ⁰ 30'53 | 14 ⁰ 57 | 28 ⁰ 36 | 9 ⁰ 50 | 18 ⁰ 8 | 24 ⁰ 8 | 12 ⁰ 56 | 28 ⁰ 27 | 29 ⁰ 37 | 10 ⁰ 7 | 8 ⁰ 10 | 6 ⁰ 59 | 17 ⁰ 53 | 28 ⁰ 14 | M 30 | |
| T 31 | 8 43 48 | 11 ⁰ 31'54 | 28 ⁰ 33 | 0 ² 9 | 11 ¹ 4 | 18 ⁰ 21 | 24 ¹¹ 4 | 12 ¹¹ 52 | 28 ¹ 30 | 29 ¹¹ 36 | 10 ⁰ 7 | 8 ⁰ 7 | 6 ⁰ 56 | 17 ¹¹ 59 | 28 ¹ 18 | T 31 | |

Delta T = 20m00s

FEBRUARY 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|-----------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|--------------------|---------------------|--------------------|--------------------|-------------------|--------------------|--------------------|------|-----|
| W 1 | 8 47 44 | 12 ² 32'55 | 12 ¹¹ 23 | 1 ² 44 | 12 ¹ 18 | 18 ⁰ 34 | 24 ⁰ R 0 | 12 ⁰ R48 | 28 ¹ 32 | 29 ⁰ R35 | 10 ⁰ 8 | 8 ⁰ D 7 | 6 ⁰ 53 | 18 ¹¹ 6 | 28 ² 22 | W 1 | |
| T 2 | 8 51 41 | 13 ⁰ 33'56 | 26 ⁰ 26 | 3 ⁰ 19 | 13 ⁰ 32 | 18 ⁰ 46 | 23 ¹¹ 55 | 12 ¹¹ 44 | 28 ⁰ 35 | 29 ¹¹ 34 | 10 ⁰ 8 | 8 ⁰ 7 | 6 ⁰ 49 | 18 ⁰ 13 | 28 ⁰ 27 | T 2 | |
| F 3 | 8 55 37 | 14 ⁰ 34'56 | 10 ⁰ 41 | 4 ⁰ 54 | 14 ⁰ 46 | 18 ⁰ 58 | 23 ⁰ 51 | 12 ⁰ 40 | 28 ⁰ 38 | 29 ⁰ 33 | 10 ⁰ 8 | 8 ⁰ 9 | 6 ⁰ 46 | 18 ⁰ 19 | 28 ⁰ 31 | F 3 | |
| S 4 | 8 59 34 | 15 ⁰ 35'56 | 25 ⁰ 7 | 6 ⁰ 31 | 16 ⁰ 1 | 19 ⁰ 9 | 23 ⁰ 46 | 12 ⁰ 37 | 28 ⁰ 40 | 29 ⁰ 32 | 10 ⁰ 8 | 8 ⁰ 10 | 6 ⁰ 43 | 18 ⁰ 26 | 28 ⁰ 35 | S 4 | |
| S 5 | 9 3 30 | 16 ⁰ 36'56 | 9 ⁰ 34 | 8 ⁰ 7 | 17 ⁰ 14 | 19 ⁰ 20 | 23 ⁰ 41 | 12 ⁰ 32 | 28 ⁰ 43 | 29 ⁰ 30 | 10 ⁰ 9 | 8 ⁰ R10 | 6 ⁰ 40 | 18 ⁰ 32 | 28 ⁰ 40 | S 5 | |
| M 6 | 9 7 27 | 17 ⁰ 37'54 | 24 ⁰ 16 | 9 ⁰ 45 | 18 ⁰ 28 | 19 ⁰ 30 | 23 ⁰ 36 | 12 ⁰ 28 | 28 ⁰ 46 | 29 ⁰ 29 | 10 ⁰ 9 | 8 ⁰ 9 | 6 ⁰ 37 | 18 ⁰ 39 | 28 ⁰ 44 | M 6 | |
| T 7 | 9 11 24 | 18 ⁰ 38'52 | 8 ⁰ 49 | 11 ⁰ 23 | 19 ⁰ 42 | 19 ⁰ 39 | 23 ⁰ 31 | 12 ⁰ 24 | 28 ⁰ 49 | 29 ⁰ 28 | 10 ⁰ 9 | 8 ⁰ 6 | 6 ⁰ 34 | 18 ⁰ 46 | 28 ⁰ 49 | T 7 | |
| W 8 | 9 15 20 | 19 ⁰ 39'49 | 23 ⁰ 12 | 13 ⁰ 2 | 20 ⁰ 56 | 19 ⁰ 48 | 23 ⁰ 25 | 12 ⁰ 20 | 28 ⁰ 51 | 29 ⁰ 27 | 10 ⁰ 10 | 8 ⁰ 1 | 6 ⁰ 30 | 18 ⁰ 52 | 28 ⁰ 53 | W 8 | |
| T 9 | 9 19 17 | 20 ⁰ 40'45 | 7 ⁰ 20 | 14 ⁰ 41 | 22 ⁰ 10 | 19 ⁰ 56 | 23 ⁰ 20 | 12 ⁰ 16 | 28 ⁰ 54 | 29 ⁰ 26 | 10 ⁰ 10 | 7 ⁰ 54 | 6 ⁰ 27 | 18 ⁰ 59 | 28 ⁰ 58 | T 9 | |
| F 10 | 9 23 13 | 21 ⁰ 41'40 | 21 ⁰ 7 | 16 ⁰ 21 | 23 ⁰ 24 | 20 ⁰ 4 | 23 ⁰ 14 | 12 ⁰ 11 | 28 ⁰ 57 | 29 ⁰ 25 | 10 ⁰ 10 | 7 ⁰ 47 | 6 ⁰ 24 | 19 ⁰ 6 | 29 ⁰ 2 | F 10 | |
| S 11 | 9 27 10 | 22 ⁰ 42'34 | 4 ⁰ 31 | 18 ⁰ 2 | 24 ⁰ 37 | 20 ⁰ 11 | 23 ⁰ 8 | 12 ⁰ 7 | 29 ⁰ 0 | 29 ⁰ 23 | 10 ⁰ 11 | 7 ⁰ 39 | 6 ⁰ 21 | 19 ⁰ 12 | 29 ⁰ 7 | S 11 | |
| S 12 | 9 31 6 | 23 ⁰ 43'27 | 17 ⁰ 31 | 19 ⁰ 44 | 25 ⁰ 51 | 20 ⁰ 17 | 23 ⁰ 2 | 12 ⁰ 2 | 29 ⁰ 3 | 29 ⁰ 22 | 10 ⁰ 11 | 7 ⁰ 32 | 6 ⁰ 18 | 19 ⁰ 19 | 29 ⁰ 11 | S 12 | |
| M 13 | 9 35 3 | 24 ⁰ 44'18 | 0 ⁰ 9 | 21 ⁰ 26 | 27 ⁰ 5 | 20 ⁰ 23 | 22 ⁰ 50 | 11 ⁰ 58 | 29 ⁰ 6 | 29 ⁰ 21 | 10 ⁰ 12 | 7 ⁰ 27 | 6 ⁰ 14 | 19 ⁰ 26 | 29 ⁰ 16 | M 13 | |
| T 14 | 9 38 59 | 25 ⁰ 45'08 | 12 ⁰ 27 | 23 ⁰ 9 | 28 ⁰ 18 | 20 ⁰ 28 | 22 ⁰ 50 | 11 ⁰ 53 | 29 ⁰ 9 | 29 ⁰ 19 | 10 ⁰ 12 | 7 ⁰ 24 | 6 ⁰ 11 | 19 ⁰ 32 | 29 ⁰ 20 | T 14 | |
| W 15 | 9 42 56 | 26 ⁰ 45'57 | 24 ⁰ 30 | 24 ⁰ 53 | 29 ⁰ 32 | 20 ⁰ 32 | 22 ⁰ 44 | 11 ⁰ 49 | 29 ⁰ 12 | 2 | | | | | | | |

ASTRODIENST EPHEMERIS for the year 2597
geocentric

MARCH 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|-------|--------|--------|--------|-------|--------|-------|-------|------|-------|------|------|
| W 1 | 10 38 8 | 10♋54'47 | 23♌15 | 20♌16 | 16♃33 | 20°R16 | 21°R 4 | 10°R42 | 29♋56 | 28°R58 | 10♌22 | 6°R15 | 5♌24 | 21♌12 | 0♌27 | W 1 |
| T 2 | 10 42 4 | 11°55'15 | 7♌17 | 22° 7 | 17°46 | 20♌ 9 | 20♌57 | 10♌37 | 29°59 | 28♌56 | 10°22 | 6°D14 | 5°20 | 21°19 | 0°32 | T 2 |
| F 3 | 10 46 1 | 12°55'41 | 21°22 | 23°58 | 18°58 | 20° 2 | 20°49 | 10°32 | 0♃ 3 | 28°55 | 10°23 | 6♌14 | 5°17 | 21°25 | 0°36 | F 3 |
| S 4 | 10 49 57 | 13°56'07 | 5♌30 | 25°47 | 20°11 | 19°53 | 20°41 | 10°28 | 0° 6 | 28°53 | 10°24 | 6°R14 | 5°14 | 21°32 | 0°41 | S 4 |
| S 5 | 10 53 54 | 14°56'31 | 19°40 | 27°36 | 21°23 | 19°44 | 20°33 | 10°23 | 0° 9 | 28°51 | 10°25 | 6°14 | 5°11 | 21°39 | 0°45 | S 5 |
| M 6 | 10 57 50 | 15°56'54 | 3♌48 | 29°23 | 22°35 | 19°34 | 20°25 | 10°18 | 0°13 | 28°50 | 10°26 | 6°11 | 5° 8 | 21°45 | 0°49 | M 6 |
| T 7 | 11 1 47 | 16°57'15 | 17°54 | 1♃ 9 | 23°47 | 19°23 | 20°18 | 10°13 | 0°16 | 28°48 | 10°27 | 6° 5 | 5° 5 | 21°52 | 0°54 | T 7 |
| W 8 | 11 5 44 | 17°57'35 | 1♋52 | 2°52 | 24°59 | 19°12 | 20°10 | 10° 8 | 0°20 | 28°46 | 10°27 | 5°57 | 5° 1 | 21°59 | 0°58 | W 8 |
| T 9 | 11 9 40 | 18°57'53 | 15°39 | 4°32 | 26°11 | 18°59 | 20° 2 | 10° 4 | 0°23 | 28°45 | 10°28 | 5°46 | 4°58 | 22° 5 | 1° 2 | T 9 |
| F 10 | 11 13 37 | 19°58'09 | 29°11 | 6° 9 | 27°23 | 18°46 | 19°54 | 9°59 | 0°26 | 28°43 | 10°29 | 5°34 | 4°55 | 22°12 | 1° 7 | F 10 |
| S 11 | 11 17 33 | 20°58'24 | 12♃26 | 7°42 | 28°35 | 18°33 | 19°46 | 9°54 | 0°30 | 28°42 | 10°30 | 5°21 | 4°52 | 22°19 | 1°11 | S 11 |
| S 12 | 11 21 30 | 21°58'36 | 25°21 | 9°10 | 29°46 | 18°18 | 19°38 | 9°49 | 0°33 | 28°40 | 10°31 | 5° 9 | 4°49 | 22°25 | 1°15 | S 12 |
| M13 | 11 25 26 | 22°58'47 | 7♌56 | 10°34 | 0♌58 | 18° 3 | 19°30 | 9°45 | 0°36 | 28°38 | 10°32 | 5° 0 | 4°46 | 22°32 | 1°19 | M13 |
| T 14 | 11 29 23 | 23°58'56 | 20°14 | 11°51 | 2° 9 | 17°47 | 19°23 | 9°40 | 0°40 | 28°37 | 10°33 | 4°53 | 4°42 | 22°38 | 1°24 | T 14 |
| W15 | 11 33 19 | 24°59'03 | 2♌17 | 13° 3 | 3°20 | 17°30 | 19°15 | 9°35 | 0°43 | 28°35 | 10°34 | 4°48 | 4°39 | 22°45 | 1°28 | W15 |
| T 16 | 11 37 16 | 25°59'08 | 14°10 | 14° 8 | 4°32 | 17°13 | 19° 7 | 9°31 | 0°47 | 28°33 | 10°35 | 4°46 | 4°36 | 22°52 | 1°32 | T 16 |
| F 17 | 11 41 13 | 26°59'11 | 25°58 | 15° 5 | 5°43 | 16°55 | 18°59 | 9°26 | 0°50 | 28°32 | 10°36 | 4°D46 | 4°33 | 22°58 | 1°36 | F 17 |
| S 18 | 11 45 9 | 27°59'11 | 7♌47 | 15°55 | 6°54 | 16°37 | 18°52 | 9°22 | 0°54 | 28°30 | 10°37 | 4°R46 | 4°30 | 23° 5 | 1°40 | S 18 |
| S 19 | 11 49 6 | 28°59'10 | 19°42 | 16°37 | 8° 5 | 16°18 | 18°44 | 9°17 | 0°57 | 28°28 | 10°38 | 4°45 | 4°26 | 23°12 | 1°44 | S 19 |
| M20 | 11 53 2 | 29°59'06 | 1♌48 | 17°10 | 9°16 | 15°58 | 18°36 | 9°13 | 1° 0 | 28°27 | 10°39 | 4°43 | 4°23 | 23°18 | 1°49 | M20 |
| T 21 | 11 56 59 | 0♃59'00 | 14°10 | 17°35 | 10°26 | 15°38 | 18°29 | 9° 9 | 1° 4 | 28°25 | 10°40 | 4°38 | 4°20 | 23°25 | 1°53 | T 21 |
| W22 | 12 0 55 | 1°58'53 | 26°52 | 17°51 | 11°37 | 15°17 | 18°21 | 9° 4 | 1° 7 | 28°23 | 10°42 | 4°30 | 4°17 | 23°32 | 1°57 | W22 |
| T 23 | 12 4 52 | 2°58'43 | 9♌55 | 17°R59 | 12°47 | 14°56 | 18°14 | 9° 0 | 1°11 | 28°22 | 10°43 | 4°20 | 4°14 | 23°38 | 2° 1 | T 23 |
| F 24 | 12 8 48 | 3°58'31 | 23°20 | 17°57 | 13°57 | 14°35 | 18° 7 | 8°56 | 1°14 | 28°20 | 10°44 | 4° 8 | 4°11 | 23°45 | 2° 5 | F 24 |
| S 25 | 12 12 45 | 4°58'16 | 7♌ 5 | 17°48 | 15° 8 | 14°13 | 17°59 | 8°52 | 1°18 | 28°18 | 10°45 | 3°56 | 4° 7 | 23°52 | 2° 9 | S 25 |
| S 26 | 12 16 41 | 5°58'00 | 21° 6 | 17°30 | 16°18 | 13°51 | 17°52 | 8°48 | 1°21 | 28°17 | 10°46 | 3°43 | 4° 4 | 23°58 | 2°12 | S 26 |
| M27 | 12 20 38 | 6°57'43 | 5♌18 | 17° 5 | 17°28 | 13°28 | 17°45 | 8°44 | 1°24 | 28°15 | 10°47 | 3°33 | 4° 1 | 24° 5 | 2°16 | M27 |
| T 28 | 12 24 35 | 7°57'23 | 19°36 | 16°33 | 18°37 | 13° 6 | 17°38 | 8°40 | 1°28 | 28°13 | 10°48 | 3°25 | 3°58 | 24°12 | 2°20 | T 28 |
| W29 | 12 28 31 | 8°57'02 | 3♌55 | 15°55 | 19°47 | 12°43 | 17°31 | 8°36 | 1°31 | 28°12 | 10°50 | 3°20 | 3°55 | 24°18 | 2°24 | W29 |
| T 30 | 12 32 28 | 9°56'39 | 18°11 | 15°12 | 20°57 | 12°19 | 17°24 | 8°32 | 1°35 | 28°10 | 10°51 | 3°18 | 3°51 | 24°25 | 2°28 | T 30 |
| F 31 | 12 36 24 | 10°56'14 | 2♌22 | 14°Y25 | 22♌ 6 | 11♌56 | 17°18 | 8♌29 | 1°Y38 | 28♌ 9 | 10♌52 | 3♌17 | 3♌48 | 24♌31 | 2♌32 | F 31 |

Delta T = 20m01s

APRIL 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|-------|--------|-------|--------|--------|-------|-------|--------|-------|-------|------|-------|------|------|
| S 1 | 12 40 21 | 11°Y55'48 | 16♌26 | 13°R34 | 23♌15 | 11°R33 | 17°R11 | 8°R25 | 1°Y41 | 28°R 7 | 10♌53 | 3°R17 | 3♌45 | 24♌38 | 2♌35 | S 1 |
| S 2 | 12 44 17 | 12°55'20 | 0♌23 | 12°Y42 | 24°24 | 11♌ 9 | 17♌ 4 | 8♌21 | 1°45 | 28♌ 5 | 10°55 | 3♌17 | 3°42 | 24°45 | 2°39 | S 2 |
| M 3 | 12 48 14 | 13°54'50 | 14°12 | 11°49 | 25°33 | 10°46 | 16°58 | 8°18 | 1°48 | 28° 4 | 10°56 | 3°14 | 3°39 | 24°51 | 2°43 | M 3 |
| T 4 | 12 52 11 | 14°54'19 | 27°54 | 10°56 | 26°42 | 10°22 | 16°52 | 8°15 | 1°52 | 28° 2 | 10°57 | 3° 8 | 3°36 | 24°58 | 2°46 | T 4 |
| W 5 | 12 56 7 | 15°53'46 | 11♋26 | 10° 4 | 27°51 | 9°59 | 16°46 | 8°11 | 1°55 | 28° 1 | 10°58 | 3° 0 | 3°32 | 25° 5 | 2°50 | W 5 |
| T 6 | 13 0 4 | 16°53'10 | 24°48 | 9°15 | 28°59 | 9°36 | 16°40 | 8° 8 | 1°58 | 27°59 | 11° 0 | 2°49 | 3°29 | 25°11 | 2°53 | T 6 |
| F 7 | 13 4 0 4 | 17°52'33 | 7♃58 | 8°29 | 0♌ 8 | 9°13 | 16°34 | 8° 5 | 2° 2 | 27°57 | 11° 1 | 2°36 | 3°26 | 25°18 | 2°57 | F 7 |
| S 8 | 13 7 57 | 18°51'54 | 20°53 | 7°47 | 1°16 | 8°50 | 16°28 | 8° 2 | 2° 5 | 27°56 | 11° 2 | 2°23 | 3°23 | 25°25 | 3° 0 | S 8 |
| S 9 | 13 11 53 | 19°51'13 | 3♌34 | 7° 9 | 2°24 | 8°27 | 16°23 | 7°59 | 2° 8 | 27°54 | 11° 3 | 2°12 | 3°20 | 25°31 | 3° 4 | S 9 |
| M10 | 13 15 50 | 20°50'30 | 16° 0 | 6°36 | 3°32 | 8° 5 | 16°17 | 7°56 | 2°12 | 27°53 | 11° 5 | 2° 2 | 3°17 | 25°38 | 3° 7 | M10 |
| T 11 | 13 19 46 | 21°49'45 | 28°12 | 6° 8 | 4°39 | 7°43 | 16°12 | 7°53 | 2°15 | 27°51 | 11° 6 | 1°54 | 3°13 | 25°45 | 3°10 | T 11 |
| W12 | 13 23 43 | 22°48'57 | 10♌12 | 5°46 | 5°47 | 7°21 | 16° 7 | 7°50 | 2°18 | 27°50 | 11° 7 | 1°49 | 3°10 | 25°51 | 3°14 | W12 |
| T 13 | 13 27 39 | 23°48'08 | 22° 3 | 5°29 | 6°54 | 7° 0 | 16° 2 | 7°48 | 2°21 | 27°48 | 11° 9 | 1°47 | 3° 7 | 25°58 | 3°17 | T 13 |
| F 14 | 13 31 36 | 24°47'16 | 3♌51 | 5°18 | 8° 1 | 6°40 | 15°57 | 7°45 | 2°25 | 27°47 | 11°10 | 1°D47 | 3° 4 | 26° 5 | 3°20 | F 14 |
| S 15 | 13 35 33 | 25°46'22 | 15°39 | 5°12 | 9° 8 | 6°20 | 15°52 | 7°43 | 2°28 | 27°45 | 11°11 | 1°47 | 3° 1 | 26°11 | 3°23 | S 15 |
| S 16 | 13 39 29 | 26°45'26 | 27°33 | 5°D12 | 10°15 | 6° 0 | 15°48 | 7°40 | 2°31 | 27°44 | 11°13 | 1°R47 | 2°57 | 26°18 | 3°26 | S 16 |
| M17 | 13 43 26 | 27°44'27 | 9♌39 | 5°18 | 11°22 | 5°41 | 15°43 | 7°38 | 2°34 | 27°43 | 11°14 | 1°47 | 2°54 | 26°24 | 3°29 | M17 |
| T 18 | 13 47 22 | 28°43'26 | 22° 2 | 5°28 | 12°28 | 5°23 | 15°39 | 7°36 | 2°37 | 27°41 | 11°15 | 1°44 | 2°51 | 26°31 | 3°32 | T 18 |
| W19 | 13 51 19 | 29°42'23 | 4♌45 | 5°44 | 13°34 | 5° 5 | 15°35 | 7°34 | 2°41 | 27°40 | 11°17 | 1°39 | 2°48 | 26°38 | 3°35 | W19 |
| T 20 | 13 55 15 | 0♌41'18 | 17°54 | 6° 4 | 14°40 | 4°48 | 15°31 | 7°32 | 2°44 | 27°39 | 11°18 | 1°32 | 2°45 | 26°44 | 3°38 | T 20 |
| F 21 | 13 59 12 | 1°40'10 | 1♌28 | 6°29 | 15°45 | 4°31 | 15°28 | 7°30 | 2°47 | 27°37 | 11°19 | 1°23 | 2°42 | 26°51 | 3°41 | F 21 |
| S 22 | 14 3 8 | 2°39'00 | 15°26 | 6°59 | 16°51 | 4°15 | 15°24 | 7°28 | 2°50 | 27°36 | 11°21 | 1°13 | 2°38 | 26°58 | 3°44 | S 22 |
| S 23 | 14 7 5 | 3°37'48 | 29°46 | 7°32 | 17°56 | 4° 0 | 15°21 | 7°27 | 2°53 | 27°35 | 11°22 | 1° 4 | 2°35 | 27° 4 | 3°46 | S 23 |
| M24 | 14 11 2 | 4°36'35 | 14♌22 | 8°10 | 19° 1 | 3°46 | 15°18 | 7°25 | 2°56 | 27°33 | 11°23 | 0°56 | 2°32 | 27°11 | 3°49 | M24 |
| T 25 | 14 14 58 | 5°35'19 | 29° 5 | 8°51 | 20° 5 | 3°32 | 15°15 | 7°24 | 2°59 | 27°32 | 11°25 | 0°50 | 2°29 | 27°18 | 3°52 | T 25 |
| W26 | 14 18 55 | 6°34'02 | 13♌50 | 9°36 | 21°10 | 3°19 | 15°12 | 7°22 | 3° 2 | 27°31 | 11°26 | 0°47 | 2°26 | 27°24 | 3°54 | W26 |
| T 27 | 14 22 51 | 7°32'43 | 28°28 | 10°25 | 22°14 | 3° 7 | 15° 9 | 7°21 | 3° 5 | 27°30 | 11°28 | 0°D46 | 2°23 | 27°31 | 3°57 | T 27 |
| F 28 | 14 26 48 | 8°31'22 | 12♌55 | 11°17 | 23°18 | 2°55 | 15° 7 | 7°20 | 3° 8 | 27°29 | 11°29 | 0°46 | 2°19 | 27°38 | 4° 0 | F 28 |
| S 29 | 14 30 44 | 9°30'00 | 27° 9 | 12°12 | 24°21 | 2°45 | 15° 5 | 7°19 | 3°11 | 27°27 | 11°30 | 0°47 | 2°16 | 27°44 | 4° 2 | S 29 |
| S 30 | 14 34 41 | 10°28'36 | 11♌ 7 | 13°Y10 | 25♌25 | 2♌35 | 15♌ 2 | 7♌18 | 3°Y14 | 27♌26 | 11♌32 | 0°R48 | 2♌13 | 27♌51 | 4♌ 4 | S 30 |

Delta T = 20m01s

ASTRODIENST EPHEMERIS for the year 2597
geocentric

MAY 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|------|--------|-------|--------|------|-------|------|------|
| M 1 | 14 38 37 | 11♌27°10 | 24♋50 | 14♏11 | 26♎28 | 2°R25 | 15°R 1 | 7°R17 | 3♏17 | 27°R25 | 11♌33 | 0°R47 | 2♌10 | 27♎57 | 4♋ 7 | M 1 |
| T 2 | 14 42 34 | 12°25'43 | 8♋18 | 15°15 | 27°30 | 2♌17 | 14♎59 | 7♎16 | 3°20 | 27♎24 | 11°35 | 0♌44 | 2° 7 | 28° 4 | 4° 9 | T 2 |
| W 3 | 14 46 31 | 13°24'14 | 21°32 | 16°21 | 28°33 | 2°10 | 14°57 | 7°16 | 3°22 | 27°23 | 11°36 | 0°39 | 2° 3 | 28°11 | 4°11 | W 3 |
| T 4 | 14 50 27 | 14°22'43 | 4♏33 | 17°30 | 29°35 | 2° 3 | 14°56 | 7°15 | 3°25 | 27°22 | 11°37 | 0°32 | 2° 0 | 28°17 | 4°13 | T 4 |
| F 5 | 14 54 24 | 15°21'11 | 17°21 | 18°41 | 0♌37 | 1°57 | 14°55 | 7°15 | 3°28 | 27°21 | 11°39 | 0°25 | 1°57 | 28°24 | 4°15 | F 5 |
| S 6 | 14 58 20 | 16°19'37 | 29°56 | 19°55 | 1°38 | 1°52 | 14°54 | 7°15 | 3°31 | 27°20 | 11°40 | 0°16 | 1°54 | 28°31 | 4°18 | S 6 |
| S 7 | 15 2 17 | 17°18'01 | 12♌20 | 21°11 | 2°39 | 1°47 | 14°53 | 7°14 | 3°33 | 27°19 | 11°41 | 0° 9 | 1°51 | 28°37 | 4°20 | S 7 |
| M 8 | 15 6 13 | 18°16'24 | 24°32 | 22°29 | 3°40 | 1°43 | 14°52 | 7°D14 | 3°36 | 27°18 | 11°43 | 0° 3 | 1°48 | 28°44 | 4°22 | M 8 |
| T 9 | 15 10 10 | 19°14'45 | 6♎34 | 23°50 | 4°40 | 1°41 | 14°52 | 7°14 | 3°39 | 27°17 | 11°44 | 29♎58 | 1°44 | 28°51 | 4°23 | T 9 |
| W10 | 15 14 6 | 20°13'04 | 18°29 | 25°12 | 5°40 | 1°39 | 14°52 | 7°14 | 3°41 | 27°16 | 11°46 | 29°55 | 1°41 | 28°57 | 4°25 | W10 |
| T 11 | 15 18 3 | 21°11'21 | 0♌18 | 26°37 | 6°40 | 1°37 | 14°D52 | 7°15 | 3°44 | 27°16 | 11°47 | 29°D55 | 1°38 | 29° 4 | 4°27 | T 11 |
| F 12 | 15 22 0 | 22° 9'36 | 12° 4 | 28° 4 | 7°39 | 1°D37 | 14°52 | 7°15 | 3°46 | 27°15 | 11°48 | 29°55 | 1°35 | 29°11 | 4°29 | F 12 |
| S 13 | 15 25 56 | 23° 7'50 | 23°52 | 29°32 | 8°38 | 1°37 | 14°52 | 7°16 | 3°49 | 27°14 | 11°50 | 29°57 | 1°32 | 29°17 | 4°30 | S 13 |
| S 14 | 15 29 53 | 24° 6'01 | 5♌46 | 1♌ 3 | 9°36 | 1°38 | 14°53 | 7°16 | 3°51 | 27°13 | 11°51 | 29°59 | 1°28 | 29°24 | 4°32 | S 14 |
| M15 | 15 33 49 | 25° 4'11 | 17°51 | 2°36 | 10°34 | 1°40 | 14°53 | 7°17 | 3°54 | 27°12 | 11°52 | 29°59 | 1°25 | 29°31 | 4°33 | M15 |
| T 16 | 15 37 46 | 26° 2'18 | 0♎12 | 4°11 | 11°31 | 1°42 | 14°54 | 7°18 | 3°56 | 27°12 | 11°54 | 29°R59 | 1°22 | 29°37 | 4°35 | T 16 |
| W17 | 15 41 42 | 27° 0'23 | 12°54 | 5°47 | 12°28 | 1°45 | 14°55 | 7°18 | 3°59 | 27°11 | 11°55 | 29°59 | 1°19 | 29°44 | 4°36 | W17 |
| T 18 | 15 45 39 | 27°58'27 | 25°59 | 7°26 | 13°25 | 1°49 | 14°57 | 7°19 | 4° 1 | 27°10 | 11°56 | 29°56 | 1°16 | 29°50 | 4°38 | T 18 |
| F 19 | 15 49 35 | 28°56'29 | 9♌32 | 9° 7 | 14°20 | 1°54 | 14°58 | 7°21 | 4° 3 | 27°10 | 11°58 | 29°53 | 1°13 | 29°57 | 4°39 | F 19 |
| S 20 | 15 53 32 | 29°54'29 | 23°33 | 10°50 | 15°16 | 1°59 | 15° 0 | 7°22 | 4° 6 | 27° 9 | 11°59 | 29°48 | 1° 9 | 0♌ 4 | 4°40 | S 20 |
| S 21 | 15 57 29 | 0♎52'27 | 7♎58 | 12°34 | 16°11 | 2° 5 | 15° 1 | 7°23 | 4° 8 | 27° 9 | 12° 0 | 29°44 | 1° 6 | 0°10 | 4°41 | S 21 |
| M22 | 16 1 25 | 1°50'23 | 22°45 | 14°21 | 17° 5 | 2°12 | 15° 3 | 7°24 | 4°10 | 27° 8 | 12° 2 | 29°40 | 1° 3 | 0°17 | 4°42 | M22 |
| T 23 | 16 5 22 | 2°48'18 | 7♌44 | 16° 9 | 17°58 | 2°19 | 15° 5 | 7°26 | 4°12 | 27° 8 | 12° 3 | 29°38 | 1° 0 | 0°24 | 4°43 | T 23 |
| W24 | 16 9 18 | 3°46'12 | 22°49 | 18° 0 | 18°51 | 2°27 | 15° 8 | 7°28 | 4°14 | 27° 7 | 12° 4 | 29°D37 | 0°57 | 0°30 | 4°44 | W24 |
| T 25 | 16 13 15 | 4°44'04 | 7♌49 | 19°52 | 19°44 | 2°36 | 15°10 | 7°29 | 4°16 | 27° 7 | 12° 6 | 29°37 | 0°54 | 0°37 | 4°45 | T 25 |
| F 26 | 16 17 11 | 5°41'55 | 22°37 | 21°47 | 20°36 | 2°45 | 15°13 | 7°31 | 4°18 | 27° 6 | 12° 7 | 29°38 | 0°50 | 0°44 | 4°46 | F 26 |
| S 27 | 16 21 8 | 6°39'45 | 7♌ 7 | 23°43 | 21°27 | 2°54 | 15°16 | 7°33 | 4°20 | 27° 6 | 12° 8 | 29°39 | 0°47 | 0°50 | 4°47 | S 27 |
| S 28 | 16 25 4 | 7°37'34 | 21°17 | 25°42 | 22°17 | 3° 5 | 15°19 | 7°35 | 4°22 | 27° 6 | 12° 9 | 29°40 | 0°44 | 0°57 | 4°48 | S 28 |
| M29 | 16 29 1 | 8°35'21 | 5♋ 5 | 27°42 | 23° 7 | 3°16 | 15°22 | 7°37 | 4°24 | 27° 5 | 12°11 | 29°R41 | 0°41 | 1° 4 | 4°48 | M29 |
| T 30 | 16 32 58 | 9°33'07 | 18°31 | 29°44 | 23°56 | 3°27 | 15°25 | 7°39 | 4°26 | 27° 5 | 12°12 | 29°41 | 0°38 | 1°10 | 4°49 | T 30 |
| W31 | 16 36 54 | 10♎30'52 | 1♏37 | 1♎48 | 24♌44 | 3♌39 | 15°29 | 7°42 | 4♏28 | 27°5 | 12♎13 | 29♎40 | 0♌34 | 1♌17 | 4♋50 | W31 |

Delta T = 20m02s

JUNE 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|------|--------|-------|--------|-------|------|-------|------|
| T 1 | 16 40 51 | 11♎28°37 | 14♏25 | 3♎53 | 25♌31 | 3♌52 | 15♎32 | 7♎44 | 4♏30 | 27°R 5 | 12♌14 | 29°R38 | 0♌31 | 1♌23 | 4♋50 | T 1 |
| F 2 | 16 44 47 | 12°26'20 | 26°57 | 6° 0 | 26°17 | 4° 5 | 15°36 | 7°47 | 4°32 | 27°5 | 12°16 | 29♎35 | 0°28 | 1°30 | 4°50 | F 2 |
| S 3 | 16 48 44 | 13°24'02 | 9♌17 | 8° 9 | 27° 3 | 4°19 | 15°40 | 7°49 | 4°33 | 27° 4 | 12°17 | 29°33 | 0°25 | 1°37 | 4°51 | S 3 |
| S 4 | 16 52 40 | 14°21'43 | 21°25 | 10°18 | 27°48 | 4°33 | 15°44 | 7°52 | 4°35 | 27° 4 | 12°18 | 29°31 | 0°22 | 1°43 | 4°51 | S 4 |
| M 5 | 16 56 37 | 15°19'23 | 3♎26 | 12°29 | 28°32 | 4°48 | 15°49 | 7°55 | 4°37 | 27° 4 | 12°19 | 29°29 | 0°19 | 1°50 | 4°51 | M 5 |
| T 6 | 17 0 33 | 16°17'02 | 15°19 | 14°40 | 29°14 | 5° 4 | 15°53 | 7°58 | 4°38 | 27° 4 | 12°20 | 29°28 | 0°15 | 1°57 | 4°51 | T 6 |
| W 7 | 17 4 30 | 17°14'39 | 27° 8 | 16°52 | 29°56 | 5°19 | 15°58 | 8° 1 | 4°40 | 27°D 4 | 12°22 | 29°D27 | 0°12 | 2° 3 | 4°51 | W 7 |
| T 8 | 17 8 27 | 18°12'16 | 8♌55 | 19° 4 | 0♎37 | 5°36 | 16° 3 | 8° 4 | 4°41 | 27° 4 | 12°23 | 29°27 | 0° 9 | 2°10 | 4°R51 | T 8 |
| F 9 | 17 12 23 | 19° 9'51 | 20°42 | 21°16 | 1°17 | 5°53 | 16° 7 | 8° 7 | 4°43 | 27° 4 | 12°24 | 29°28 | 0° 6 | 2°17 | 4°51 | F 9 |
| S 10 | 17 16 20 | 20° 7'25 | 2♎33 | 23°28 | 1°55 | 6°10 | 16°13 | 8°10 | 4°44 | 27° 4 | 12°25 | 29°29 | 0° 3 | 2°23 | 4°51 | S 10 |
| S 11 | 17 20 16 | 21° 4'58 | 14°30 | 25°39 | 2°33 | 6°28 | 16°18 | 8°14 | 4°45 | 27° 4 | 12°26 | 29°30 | 29♎59 | 2°30 | 4°51 | S 11 |
| M12 | 17 24 13 | 22° 2'30 | 26°37 | 27°49 | 3° 9 | 6°46 | 16°23 | 8°17 | 4°47 | 27° 5 | 12°27 | 29°31 | 29°56 | 2°37 | 4°51 | M12 |
| T 13 | 17 28 9 | 23° 0'00 | 8♎58 | 29°59 | 3°44 | 7° 4 | 16°29 | 8°21 | 4°48 | 27° 5 | 12°28 | 29°31 | 29°53 | 2°43 | 4°51 | T 13 |
| W14 | 17 32 6 | 23°57'29 | 21°38 | 2♌ 7 | 4°17 | 7°24 | 16°34 | 8°24 | 4°49 | 27° 5 | 12°29 | 29°R31 | 29°50 | 2°50 | 4°50 | W14 |
| T 15 | 17 36 2 | 24°54'57 | 4♌39 | 4°13 | 4°49 | 7°43 | 16°40 | 8°28 | 4°50 | 27° 5 | 12°31 | 29°31 | 29°47 | 2°56 | 4°50 | T 15 |
| F 16 | 17 39 59 | 25°52'23 | 18° 5 | 6°18 | 5°20 | 8° 3 | 16°46 | 8°32 | 4°52 | 27° 6 | 12°32 | 29°31 | 29°44 | 3° 3 | 4°49 | F 16 |
| S 17 | 17 43 56 | 26°49'49 | 1♎58 | 8°21 | 5°49 | 8°23 | 16°52 | 8°36 | 4°53 | 27° 6 | 12°33 | 29°31 | 29°40 | 3°10 | 4°49 | S 17 |
| S 18 | 17 47 52 | 27°47'13 | 16°17 | 10°22 | 6°17 | 8°44 | 16°59 | 8°40 | 4°54 | 27° 6 | 12°34 | 29°30 | 29°37 | 3°16 | 4°48 | S 18 |
| M19 | 17 51 49 | 28°44'37 | 1♌ 0 | 12°21 | 6°43 | 9° 5 | 17° 5 | 8°44 | 4°55 | 27° 7 | 12°35 | 29°30 | 29°34 | 3°23 | 4°48 | M19 |
| T 20 | 17 55 45 | 29°41'59 | 16° 0 | 14°18 | 7° 8 | 9°27 | 17°12 | 8°48 | 4°56 | 27° 7 | 12°36 | 29°D30 | 29°31 | 3°30 | 4°47 | T 20 |
| W21 | 17 59 42 | 0♌39'21 | 1♌11 | 16°12 | 7°31 | 9°49 | 17°18 | 8°52 | 4°57 | 27° 7 | 12°37 | 29°R30 | 29°28 | 3°36 | 4°46 | W21 |
| T 22 | 18 3 38 | 1°36'42 | 16°23 | 18° 4 | 7°52 | 10°11 | 17°25 | 8°56 | 4°57 | 27° 8 | 12°38 | 29°30 | 29°25 | 3°43 | 4°45 | T 22 |
| F 23 | 18 7 35 | 2°34'02 | 1♌26 | 19°54 | 8°11 | 10°33 | 17°32 | 9° 1 | 4°58 | 27° 8 | 12°39 | 29°30 | 29°21 | 3°50 | 4°44 | F 23 |
| S 24 | 18 11 32 | 3°31'22 | 16°12 | 21°41 | 8°28 | 10°56 | 17°39 | 9° 5 | 4°59 | 27° 9 | 12°40 | 29°30 | 29°18 | 3°56 | 4°43 | S 24 |
| S 25 | 18 15 28 | 4°28'41 | 0♋36 | 23°26 | 8°43 | 11°20 | 17°46 | 9°10 | 5° 0 | 27°10 | 12°41 | 29°29 | 29°15 | 4° 3 | 4°42 | S 25 |
| M26 | 18 19 25 | 5°26'00 | 14°34 | 25° 8 | 8°57 | 11°43 | 17°54 | 9°14 | 5° 0 | 27°10 | 12°41 | 29°29 | 29°12 | 4°10 | 4°41 | M26 |
| T 27 | 18 23 21 | 6°23'18 | 28° 5 | 26°48 | 9° 8 | 12° 7 | 18° 1 | 9°19 | 5° 1 | 27°11 | 12°42 | 29°28 | 29° 9 | 4°16 | 4°40 | T 27 |
| W28 | 18 27 18 | 7°20'37 | 11♏12 | 28°26 | 9°17 | 12°32 | 18° 9 | 9°24 | 5° 2 | 27°11 | 12°43 | 29°D28 | 29° 6 | 4°23 | 4°39 | W28 |
| T 29 | 18 31 14 | 8°17'55 | 23°56 | 0♎ 1 | 9°24 | 12°56 | 18°16 | 9°29 | 5° 2 | 27°12 | 12°44 | 29°29 | 29° 2 | 4°30 | 4°38 | T 29 |
| F 30 | 18 35 11 | 9♌15'13 | 6♌21 | 1♎33 | 9♎29 | 13♌21 | 18°24 | 9°34 | 5♏ 3 | 27°13 | 12♌45 | 29♎29 | 28♎59 | 4♌36 | 4♋36 | F 30 |

Delta T = 20m02s

ASTRODIENST EPHEMERIS for the year 2597
geocentric

JULY 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|------|------|---|-----|
| S 1 | 18 39 7 | 10♉12'30 | 18♋32 | 3♊ 3 | 9♊32 | 13♌46 | 18♎32 | 9♎39 | 5♍ 3 | 27♎14 | 12♏46 | 29♐30 | 28♑56 | 4♒43 | 4♓35 | S 1 | | |
| S 2 | 18 43 4 | 11° 9'48 | 0♐31 | 4°31 | 9♉R32 | 14°12 | 18°40 | 9°44 | 5° 3 | 27°14 | 12°47 | 29°31 | 28°53 | 4°49 | 4♋33 | S 2 | | |
| M 3 | 18 47 1 | 12° 7'05 | 12°23 | 5°56 | 9°30 | 14°38 | 18°48 | 9°49 | 5° 4 | 27°15 | 12°47 | 29°32 | 28°50 | 4°56 | 4°32 | M 3 | | |
| T 4 | 18 50 57 | 13° 4'22 | 24°11 | 7°18 | 9°25 | 15° 4 | 18°57 | 9°54 | 5° 4 | 27°16 | 12°48 | 29°R33 | 28°46 | 5° 3 | 4°30 | T 4 | | |
| W 5 | 18 54 54 | 14° 1'39 | 5♌58 | 8°38 | 9°19 | 15°31 | 19° 5 | 9°59 | 5° 4 | 27°17 | 12°49 | 29°33 | 28°43 | 5° 9 | 4°29 | W 5 | | |
| T 6 | 18 58 50 | 14°58'55 | 17°46 | 9°55 | 9° 9 | 15°57 | 19°14 | 10° 5 | 5° 4 | 27°18 | 12°50 | 29°32 | 28°40 | 5°16 | 4°27 | T 6 | | |
| F 7 | 19 2 47 | 15°56'11 | 29°37 | 11° 9 | 8°58 | 16°24 | 19°22 | 10°10 | 5° 4 | 27°19 | 12°50 | 29°31 | 28°37 | 5°23 | 4°25 | F 7 | | |
| S 8 | 19 6 43 | 16°53'27 | 11♊34 | 12°20 | 8°44 | 16°52 | 19°31 | 10°16 | 5° 5 | 27°20 | 12°51 | 29°28 | 28°34 | 5°29 | 4°24 | S 8 | | |
| S 9 | 19 10 40 | 17°50'43 | 23°39 | 13°29 | 8°27 | 17°19 | 19°40 | 10°21 | 5°R 5 | 27°21 | 12°52 | 29°26 | 28°31 | 5°36 | 4°22 | S 9 | | |
| M10 | 19 14 36 | 18°47'58 | 5♎53 | 14°35 | 8° 9 | 17°47 | 19°49 | 10°27 | 5° 5 | 27°22 | 12°52 | 29°23 | 28°27 | 5°43 | 4°20 | M10 | | |
| T 11 | 19 18 33 | 19°45'13 | 18°21 | 15°37 | 7°48 | 18°15 | 19°58 | 10°33 | 5° 5 | 27°23 | 12°53 | 29°20 | 28°24 | 5°49 | 4°18 | T 11 | | |
| W12 | 19 22 30 | 20°42'27 | 1♌ 3 | 16°37 | 7°25 | 18°44 | 20° 7 | 10°38 | 5° 4 | 27°24 | 12°54 | 29°18 | 28°21 | 5°56 | 4°16 | W12 | | |
| T 13 | 19 26 26 | 21°39'41 | 14° 3 | 17°33 | 7° 0 | 19°12 | 20°16 | 10°44 | 5° 4 | 27°25 | 12°54 | 29°17 | 28°18 | 6° 3 | 4°14 | T 13 | | |
| F 14 | 19 30 23 | 22°36'55 | 27°24 | 18°27 | 6°32 | 19°41 | 20°26 | 10°50 | 5° 4 | 27°26 | 12°55 | 29°D17 | 28°15 | 6° 9 | 4°12 | F 14 | | |
| S 15 | 19 34 19 | 23°34'08 | 11♌ 8 | 19°16 | 6° 3 | 20°10 | 20°35 | 10°56 | 5° 4 | 27°27 | 12°56 | 29°18 | 28°12 | 6°16 | 4°10 | S 15 | | |
| S 16 | 19 38 16 | 24°31'21 | 25°14 | 20° 3 | 5°32 | 20°40 | 20°45 | 11° 2 | 5° 3 | 27°29 | 12°56 | 29°19 | 28° 8 | 6°23 | 4° 8 | S 16 | | |
| M17 | 19 42 12 | 25°28'35 | 9♌43 | 20°45 | 5° 0 | 21° 9 | 20°54 | 11° 8 | 5° 3 | 27°30 | 12°57 | 29°20 | 28° 5 | 6°29 | 4° 5 | M17 | | |
| T 18 | 19 46 9 | 26°25'48 | 24°32 | 21°24 | 4°26 | 21°39 | 21° 4 | 11°14 | 5° 3 | 27°31 | 12°57 | 29°R21 | 28° 2 | 6°36 | 4° 3 | T 18 | | |
| W19 | 19 50 5 | 27°23'00 | 9♌34 | 21°59 | 3°51 | 22° 9 | 21°14 | 11°20 | 5° 2 | 27°32 | 12°58 | 29°21 | 27°59 | 6°42 | 4° 1 | W19 | | |
| T 20 | 19 54 2 | 28°20'13 | 24°41 | 22°29 | 3°15 | 22°39 | 21°24 | 11°26 | 5° 2 | 27°34 | 12°58 | 29°19 | 27°56 | 6°49 | 3°59 | T 20 | | |
| F 21 | 19 57 59 | 29°17'26 | 9♌46 | 22°56 | 2°38 | 23°10 | 21°34 | 11°33 | 5° 1 | 27°35 | 12°59 | 29°16 | 27°52 | 6°56 | 3°56 | F 21 | | |
| S 22 | 20 1 55 | 0♊14'40 | 24°38 | 23°18 | 2° 1 | 23°41 | 21°44 | 11°39 | 5° 1 | 27°36 | 12°59 | 29°12 | 27°49 | 7° 2 | 3°54 | S 22 | | |
| S 23 | 20 5 52 | 1°11'53 | 9♋10 | 23°36 | 1°23 | 24°11 | 21°54 | 11°45 | 5° 0 | 27°38 | 12°59 | 29° 8 | 27°46 | 7° 9 | 3°51 | S 23 | | |
| M24 | 20 9 48 | 2° 9'07 | 23°16 | 23°49 | 0°46 | 24°43 | 22° 4 | 11°52 | 4°59 | 27°39 | 13° 0 | 29° 3 | 27°43 | 7°16 | 3°49 | M24 | | |
| T 25 | 20 13 45 | 3° 6'22 | 6♍55 | 23°58 | 0° 8 | 25°14 | 22°15 | 11°58 | 4°59 | 27°40 | 13° 0 | 29° 0 | 27°40 | 7°22 | 3°46 | T 25 | | |
| W26 | 20 17 41 | 4° 3'37 | 20° 6 | 24°R 1 | 29♌31 | 25°45 | 22°25 | 12° 5 | 4°58 | 27°42 | 13° 1 | 28°57 | 27°37 | 7°29 | 3°44 | W26 | | |
| T 27 | 20 21 38 | 5° 0'52 | 2♌51 | 24° 0 | 28°55 | 26°17 | 22°35 | 12°11 | 4°57 | 27°43 | 13° 1 | 28°D57 | 27°33 | 7°36 | 3°41 | T 27 | | |
| F 28 | 20 25 34 | 5°58'09 | 15°16 | 23°54 | 28°20 | 26°49 | 22°46 | 12°18 | 4°56 | 27°45 | 13° 1 | 28°57 | 27°30 | 7°42 | 3°38 | F 28 | | |
| S 29 | 20 29 31 | 6°55'26 | 27°23 | 23°43 | 27°46 | 27°21 | 22°57 | 12°25 | 4°55 | 27°46 | 13° 2 | 28°58 | 27°27 | 7°49 | 3°36 | S 29 | | |
| S 30 | 20 33 28 | 7°52'44 | 9♐19 | 23°28 | 27°13 | 27°54 | 23° 7 | 12°31 | 4°54 | 27°48 | 13° 2 | 29° 0 | 27°24 | 7°56 | 3°33 | S 30 | | |
| M31 | 20 37 24 | 8♌50'03 | 21♐ 8 | 23♊ 7 | 26♌41 | 28♌26 | 23♎18 | 12♎38 | 4♍53 | 27♎50 | 13♏ 2 | 29♐ 1 | 27♑21 | 8♒ 2 | 3♋30 | M31 | | |

Delta T = 20m02s

AUGUST 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|---|-----|
| T 1 | 20 41 21 | 9♌47'22 | 2♌55 | 22°R42 | 26°R12 | 28♌59 | 23♎29 | 12♎45 | 4°R52 | 27♎51 | 13♏ 2 | 29°R 1 | 27♐18 | 8♒ 9 | 3°R28 | T 1 | | |
| W 2 | 20 45 17 | 10°44'42 | 14°42 | 22♊13 | 25♌44 | 29°32 | 23°40 | 12°52 | 4♍51 | 27°53 | 13° 3 | 29♐ 0 | 27°14 | 8°16 | 3♋25 | W 2 | | |
| T 3 | 20 49 14 | 11°42'03 | 26°34 | 21°40 | 25°18 | 0♌ 5 | 23°51 | 12°58 | 4°50 | 27°54 | 13° 3 | 28°57 | 27°11 | 8°22 | 3°22 | T 3 | | |
| F 4 | 20 53 10 | 12°39'24 | 8♊33 | 21° 4 | 24°54 | 0°38 | 24° 2 | 13° 5 | 4°49 | 27°56 | 13° 3 | 28°51 | 27° 8 | 8°29 | 3°19 | F 4 | | |
| S 5 | 20 57 7 | 13°36'46 | 20°40 | 20°25 | 24°32 | 1°12 | 24°13 | 13°12 | 4°48 | 27°58 | 13° 3 | 28°44 | 27° 5 | 8°35 | 3°16 | S 5 | | |
| S 6 | 21 1 3 | 14°34'09 | 2♎58 | 19°43 | 24°13 | 1°45 | 24°25 | 13°19 | 4°47 | 28° 0 | 13° 3 | 28°36 | 27° 2 | 8°42 | 3°13 | S 6 | | |
| M 7 | 21 5 0 | 15°31'32 | 15°26 | 19° 0 | 23°56 | 2°19 | 24°36 | 13°26 | 4°45 | 28° 1 | 13° 3 | 28°28 | 26°58 | 8°49 | 3°10 | M 7 | | |
| T 8 | 21 8 57 | 16°28'56 | 28° 6 | 18°16 | 23°41 | 2°53 | 24°47 | 13°33 | 4°44 | 28° 3 | 13° 3 | 28°20 | 26°55 | 8°55 | 3° 7 | T 8 | | |
| W 9 | 21 12 53 | 17°26'21 | 11♌ 0 | 17°31 | 23°28 | 3°27 | 24°59 | 13°40 | 4°43 | 28° 5 | 13° 4 | 28°14 | 26°52 | 9° 2 | 3° 4 | W 9 | | |
| T 10 | 21 16 50 | 18°23'46 | 24° 7 | 16°47 | 23°18 | 4° 2 | 25°10 | 13°48 | 4°41 | 28° 7 | 13° 4 | 28° 9 | 26°49 | 9° 9 | 3° 1 | T 10 | | |
| F 11 | 21 20 46 | 19°21'11 | 7♌29 | 16° 5 | 23°11 | 4°36 | 25°22 | 13°55 | 4°40 | 28° 8 | 13° 4 | 28° 6 | 26°46 | 9°15 | 2°58 | F 11 | | |
| S 12 | 21 24 43 | 20°18'37 | 21° 8 | 15°25 | 23° 5 | 5°11 | 25°33 | 14° 2 | 4°38 | 28°10 | 13°R 4 | 28°D 6 | 26°43 | 9°22 | 2°55 | S 12 | | |
| S 13 | 21 28 39 | 21°16'04 | 5♌ 4 | 14°47 | 23° 2 | 5°45 | 25°45 | 14° 9 | 4°37 | 28°12 | 13° 4 | 28° 6 | 26°39 | 9°29 | 2°52 | S 13 | | |
| M14 | 21 32 36 | 22°13'31 | 19°18 | 14°14 | 23°D 2 | 6°20 | 25°57 | 14°16 | 4°35 | 28°14 | 13° 4 | 28° 7 | 26°36 | 9°35 | 2°49 | M14 | | |
| T 15 | 21 36 32 | 23°11'00 | 3♌48 | 13°45 | 23° 3 | 6°56 | 26° 9 | 14°24 | 4°34 | 28°16 | 13° 3 | 28°R 7 | 26°33 | 9°42 | 2°46 | T 15 | | |
| W16 | 21 40 29 | 24° 8'28 | 18°30 | 13°21 | 23° 7 | 7°31 | 26°20 | 14°31 | 4°32 | 28°18 | 13° 3 | 28° 6 | 26°30 | 9°49 | 2°43 | W16 | | |
| T 17 | 21 44 26 | 25° 5'58 | 3♌21 | 13° 3 | 23°13 | 8° 6 | 26°32 | 14°38 | 4°30 | 28°20 | 13° 3 | 28° 2 | 26°27 | 9°55 | 2°40 | T 17 | | |
| F 18 | 21 48 22 | 26° 3'29 | 18°12 | 12°50 | 23°22 | 8°42 | 26°44 | 14°46 | 4°29 | 28°22 | 13° 3 | 27°56 | 26°24 | 10° 2 | 2°37 | F 18 | | |
| S 19 | 21 52 19 | 27° 1'00 | 2♋56 | 12°D45 | 23°32 | 9°18 | 26°56 | 14°53 | 4°27 | 28°23 | 13° 3 | 27°48 | 26°20 | 10° 9 | 2°34 | S 19 | | |
| S 20 | 21 56 15 | 27°58'32 | 17°23 | 12°45 | 23°45 | 9°54 | 27° 8 | 15° 0 | 4°25 | 28°25 | 13° 3 | 27°38 | 26°17 | 10°15 | 2°31 | S 20 | | |
| M21 | 22 0 12 | 28°56'06 | 1♍29 | 12°53 | 23°59 | 10°30 | 27°20 | 15° 8 | 4°23 | 28°27 | 13° 3 | 27°29 | 26°14 | 10°22 | 2°28 | M21 | | |
| T 22 | 22 4 8 | 29°53'41 | 15°10 | 13° 8 | 24°16 | 11° 6 | 27°32 | 15°15 | 4°21 | 28°29 | 13° 3 | 27°21 | 26°11 | 10°28 | 2°25 | T 22 | | |
| W23 | 22 8 5 | 0♎51'17 | 28°23 | 13°30 | 24°34 | 11°42 | 27°45 | 15°22 | 4°20 | 28°31 | 13° 2 | 27°14 | 26° 8 | 10°35 | 2°21 | W23 | | |
| T 24 | 22 12 1 | 1°48'55 | 11♌11 | 13°59 | 24°54 | 12°18 | 27°57 | 15°30 | 4°18 | 28°33 | 13° 2 | 27°10 | 26° 4 | 10°42 | 2°18 | T 24 | | |
| F 25 | 22 15 58 | 2°46'34 | 23°37 | 14°35 | 25°16 | 12°55 | 28° 9 | 15°37 | 4°16 | 28°35 | 13° 2 | 27° 8 | 26° 1 | 10°48 | 2°15 | F 25 | | |
| S 26 | 22 19 55 | 3°44'15 | 5♐45 | 15°18 | 25°40 | 13°32 | 28°21 | 15°45 | 4°14 | 28°38 | 13° 2 | 27°D 8 | 25°58 | 10°55 | 2°12 | S 26 | | |
| S 27 | 22 23 51 | 4°41'58 | 17°41 | 16° 8 | 26° 6 | 14° 9 | 28°34 | 15°52 | 4°12 | 28°40 | 13° 1 | 27° 8 | 25°55 | 11° 2 | 2° 9 | S 27 | | |
| M28 | 22 27 48 | 5°39'42 | 29°30 | 17° 5 | 26°33 | 14°46 | 28°46 | 16° 0 | 4°10 | 28°42 | 13° 1 | 27°R 8 | 25°52 | 11° 8 | 2° 6 | M28 | | |
| T 29 | 22 31 44 | 6°37'27 | 11♌17 | 18° 9 | 27° 1 | 15°23 | 28°58 | 16° 7 | 4° 8 | 28°44 | 13° 1 | 27° 7 | 25°49 | 11°15 | 2° 3 | T 29 | | |
| W30 | 22 35 41 | 7°35'14 | 23° 8 | 19°19 | 27°32 | 16° 0 | 29°11 | 16°15 | 4° 6 | 28°46 | 13° 0 | 27° 4 | 25°45 | 11°22 | 2° 0 | W30 | | |
| T 31 | 22 39 37 | 8♎33'03 | 5♊ 5 | 20♊34 | 28♌ 3 | 16♌38 | 29♎23 | 16♎23 | 4♍ 4 | 28♎48 | 13♏ 0 | 26♐59 | 25♑42 | 11♒28 | 1♋56 | T 31 | | |

Delta T = 20m03s

ASTRODIENST EPHEMERIS for the year 2597
geocentric

SEPTEMBER 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|-----|
| F 1 | 22 43 34 | 9♎30'53 | 17♏13 | 21♌56 | 28♉36 | 17♎15 | 29♎36 | 16♎30 | 4°R 2 | 28♎50 | 12°R59 | 26°R51 | 25♎39 | 11♉35 | 1°R53 | F 1 | |
| S 2 | 22 47 30 | 10°28'44 | 29°32 | 23°22 | 29°10 | 17°53 | 29°48 | 16°38 | 3°Y59 | 28°52 | 12♉59 | 26♎40 | 25°36 | 11°42 | 1°X50 | S 2 | |
| S 3 | 22 51 27 | 11°26'37 | 12♎6 | 24°54 | 29°46 | 18°31 | 0♉1 | 16°45 | 3°57 | 28°54 | 12°59 | 26°28 | 25°33 | 11°48 | 1°47 | S 3 | |
| M 4 | 22 55 24 | 12°24'32 | 24°53 | 26°30 | 0♌23 | 19°9 | 0°14 | 16°53 | 3°55 | 28°56 | 12°58 | 26°15 | 25°30 | 11°55 | 1°44 | M 4 | |
| T 5 | 22 59 20 | 13°22'27 | 7♉52 | 28°10 | 1°1 | 19°47 | 0°26 | 17°1 | 3°53 | 28°59 | 12°58 | 26°3 | 25°26 | 12°2 | 1°41 | T 5 | |
| W 6 | 23 3 17 | 14°20'25 | 21°5 | 29°54 | 1°40 | 20°25 | 0°39 | 17°8 | 3°51 | 29°1 | 12°57 | 25°53 | 25°23 | 12°8 | 1°38 | W 6 | |
| T 7 | 23 7 13 | 15°18'23 | 4♎28 | 1♎40 | 2°20 | 21°3 | 0°51 | 17°16 | 3°49 | 29°3 | 12°57 | 25°45 | 25°20 | 12°15 | 1°35 | T 7 | |
| F 8 | 23 11 10 | 16°16'23 | 18°2 | 3°30 | 3°2 | 21°42 | 1°4 | 17°23 | 3°46 | 29°5 | 12°56 | 25°41 | 25°17 | 12°22 | 1°32 | F 8 | |
| S 9 | 23 15 6 | 17°14'25 | 1♉46 | 5°21 | 3°44 | 22°20 | 1°17 | 17°31 | 3°44 | 29°7 | 12°56 | 25°38 | 25°14 | 12°28 | 1°29 | S 9 | |
| S 10 | 23 19 3 | 18°12'27 | 15°40 | 7°14 | 4°27 | 22°59 | 1°30 | 17°39 | 3°42 | 29°9 | 12°55 | 25°38 | 25°10 | 12°35 | 1°26 | S 10 | |
| M11 | 23 22 59 | 19°10'31 | 29°44 | 9°9 | 5°11 | 23°38 | 1°42 | 17°46 | 3°39 | 29°12 | 12°54 | 25°38 | 25°7 | 12°41 | 1°23 | M11 | |
| T 12 | 23 26 56 | 20°8'36 | 13♉58 | 11°4 | 5°57 | 24°17 | 1°55 | 17°54 | 3°37 | 29°14 | 12°54 | 25°37 | 25°4 | 12°48 | 1°20 | T 12 | |
| W13 | 23 30 53 | 21°6'43 | 28°20 | 13°0 | 6°43 | 24°56 | 2°8 | 18°1 | 3°35 | 29°16 | 12°53 | 25°34 | 25°1 | 12°55 | 1°17 | W13 | |
| T 14 | 23 34 49 | 22°4'51 | 12♉47 | 14°57 | 7°30 | 25°35 | 2°21 | 18°9 | 3°32 | 29°18 | 12°52 | 25°29 | 24°58 | 13°1 | 1°15 | T 14 | |
| F 15 | 23 38 46 | 23°3'00 | 27°14 | 16°53 | 8°17 | 26°14 | 2°34 | 18°17 | 3°30 | 29°21 | 12°52 | 25°21 | 24°55 | 13°8 | 1°12 | F 15 | |
| S 16 | 23 42 42 | 24°1'11 | 11♉36 | 18°50 | 9°6 | 26°54 | 2°47 | 18°24 | 3°28 | 29°23 | 12°51 | 25°11 | 24°51 | 13°15 | 1°9 | S 16 | |
| S 17 | 23 46 39 | 24°59'24 | 25°47 | 20°46 | 9°55 | 27°33 | 3°0 | 18°32 | 3°25 | 29°25 | 12°50 | 24°59 | 24°48 | 13°21 | 1°6 | S 17 | |
| M18 | 23 50 35 | 25°57'38 | 9°Y41 | 22°41 | 10°45 | 28°13 | 3°12 | 18°39 | 3°23 | 29°27 | 12°50 | 24°47 | 24°45 | 13°28 | 1°3 | M18 | |
| T 19 | 23 54 32 | 26°55'54 | 23°13 | 24°36 | 11°36 | 28°53 | 3°25 | 18°47 | 3°21 | 29°29 | 12°49 | 24°36 | 24°42 | 13°35 | 1°1 | T 19 | |
| W20 | 23 58 28 | 27°54'12 | 6♉22 | 26°30 | 12°28 | 29°32 | 3°38 | 18°54 | 3°18 | 29°32 | 12°48 | 24°27 | 24°39 | 13°41 | 0°58 | W20 | |
| T 21 | 0 2 25 | 28°52'32 | 19°9 | 28°23 | 13°20 | 0♉12 | 3°51 | 19°2 | 3°16 | 29°34 | 12°48 | 24°21 | 24°35 | 13°48 | 0°55 | T 21 | |
| F 22 | 0 6 21 | 29°50'54 | 1♎35 | 0♉15 | 14°13 | 0°52 | 4°4 | 19°9 | 3°13 | 29°36 | 12°47 | 24°17 | 24°32 | 13°55 | 0°53 | F 22 | |
| S 23 | 0 10 18 | 0♉49'18 | 13°44 | 2°7 | 15°6 | 1°33 | 4°17 | 19°17 | 3°11 | 29°38 | 12°46 | 24°15 | 24°29 | 14°1 | 0°50 | S 23 | |
| S 24 | 0 14 15 | 1°47'44 | 25°40 | 3°57 | 16°0 | 2°13 | 4°30 | 19°25 | 3°9 | 29°41 | 12°45 | 24°15 | 24°26 | 14°8 | 0°48 | S 24 | |
| M25 | 0 18 11 | 2°46'13 | 7♉30 | 5°47 | 16°55 | 2°53 | 4°43 | 19°32 | 3°6 | 29°43 | 12°44 | 24°15 | 24°23 | 14°15 | 0°45 | M25 | |
| T 26 | 0 22 8 | 3°44'43 | 19°19 | 7°35 | 17°50 | 3°34 | 4°56 | 19°39 | 3°4 | 29°45 | 12°44 | 24°14 | 24°20 | 14°21 | 0°43 | T 26 | |
| W27 | 0 26 4 | 4°43'16 | 1♌11 | 9°22 | 18°46 | 4°14 | 5°9 | 19°47 | 3°1 | 29°47 | 12°43 | 24°11 | 24°16 | 14°28 | 0°40 | W27 | |
| T 28 | 0 30 1 | 5°41'51 | 13°12 | 11°9 | 19°43 | 4°55 | 5°22 | 19°54 | 2°59 | 29°49 | 12°42 | 24°6 | 24°13 | 14°35 | 0°38 | T 28 | |
| F 29 | 0 33 57 | 6°40'27 | 25°27 | 12°54 | 20°39 | 5°36 | 5°35 | 20°2 | 2°57 | 29°52 | 12°41 | 23°59 | 24°10 | 14°41 | 0°36 | F 29 | |
| S 30 | 0 37 54 | 7♉39'06 | 7♎57 | 14♉38 | 21♌37 | 6♉17 | 5♉48 | 20♎9 | 2°Y54 | 29♎54 | 12♉40 | 23♎49 | 24♎7 | 14♉48 | 0°X33 | S 30 | |

Delta T = 20m03s

OCTOBER 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|-----|
| S 1 | 0 41 50 | 8♉37'47 | 20♎45 | 16♉21 | 22♌35 | 6♉58 | 6♉1 | 20♎17 | 2°R52 | 29♎56 | 12°R39 | 23°R37 | 24♎4 | 14♉55 | 0°R31 | S 1 | |
| M 2 | 0 45 47 | 9°36'30 | 3♉50 | 18°4 | 23°33 | 7°39 | 6°14 | 20°24 | 2°Y49 | 29°58 | 12♉38 | 23♎24 | 24°1 | 15°1 | 0°X29 | M 2 | |
| T 3 | 0 49 44 | 10°35'14 | 17°12 | 19°45 | 24°32 | 8°20 | 6°27 | 20°31 | 2°47 | 0♉0 | 12°37 | 23°12 | 23°57 | 15°8 | 0°27 | T 3 | |
| W 4 | 0 53 40 | 11°34'01 | 0♎48 | 21°25 | 25°31 | 9°2 | 6°40 | 20°39 | 2°45 | 0°3 | 12°36 | 23°2 | 23°54 | 15°14 | 0°25 | W 4 | |
| T 5 | 0 57 37 | 12°32'50 | 14°35 | 23°5 | 26°31 | 9°43 | 6°53 | 20°46 | 2°42 | 0°5 | 12°35 | 22°55 | 23°51 | 15°21 | 0°23 | T 5 | |
| F 6 | 1 1 33 | 13°31'40 | 28°30 | 24°43 | 27°31 | 10°25 | 7°5 | 20°53 | 2°40 | 0°7 | 12°34 | 22°50 | 23°48 | 15°28 | 0°21 | F 6 | |
| S 7 | 1 5 30 | 14°30'32 | 12♉31 | 26°21 | 28°31 | 11°6 | 7°18 | 21°0 | 2°38 | 0°9 | 12°33 | 22°48 | 23°45 | 15°34 | 0°19 | S 7 | |
| S 8 | 1 9 26 | 15°29'26 | 26°35 | 27°57 | 29°32 | 11°48 | 7°31 | 21°7 | 2°35 | 0°11 | 12°33 | 22°D47 | 23°41 | 15°41 | 0°17 | S 8 | |
| M 9 | 1 13 23 | 16°28'22 | 10♉41 | 29°33 | 0♎33 | 12°30 | 7°44 | 21°15 | 2°33 | 0°14 | 12°32 | 22°R48 | 23°38 | 15°48 | 0°15 | M 9 | |
| T 10 | 1 17 19 | 17°27'19 | 24°49 | 1♎8 | 1°35 | 13°12 | 7°57 | 21°22 | 2°31 | 0°16 | 12°31 | 22°48 | 23°35 | 15°54 | 0°13 | T 10 | |
| W11 | 1 21 16 | 18°26'18 | 8♉56 | 2°42 | 2°37 | 13°54 | 8°10 | 21°29 | 2°28 | 0°18 | 12°30 | 22°46 | 23°32 | 16°1 | 0°11 | W11 | |
| T 12 | 1 25 13 | 19°25'19 | 23°2 | 4°15 | 3°39 | 14°36 | 8°23 | 21°36 | 2°26 | 0°20 | 12°28 | 22°42 | 23°29 | 16°8 | 0°10 | T 12 | |
| F 13 | 1 29 9 | 20°24'21 | 7♉4 | 5°48 | 4°41 | 15°18 | 8°36 | 21°43 | 2°24 | 0°22 | 12°27 | 22°35 | 23°26 | 16°14 | 0°8 | F 13 | |
| S 14 | 1 33 6 | 21°23'25 | 20°59 | 7°19 | 5°44 | 16°0 | 8°48 | 21°50 | 2°22 | 0°24 | 12°26 | 22°27 | 23°22 | 16°21 | 0°7 | S 14 | |
| S 15 | 1 37 2 | 22°22'31 | 4°Y44 | 8°50 | 6°48 | 16°43 | 9°1 | 21°57 | 2°19 | 0°26 | 12°25 | 22°17 | 23°19 | 16°28 | 0°5 | S 15 | |
| M16 | 1 40 59 | 23°21'39 | 18°16 | 10°20 | 7°51 | 17°25 | 9°14 | 22°4 | 2°17 | 0°28 | 12°24 | 22°6 | 23°16 | 16°34 | 0°4 | M16 | |
| T 17 | 1 44 55 | 24°20'49 | 1♉31 | 11°49 | 8°55 | 18°8 | 9°27 | 22°10 | 2°15 | 0°30 | 12°23 | 21°57 | 23°13 | 16°41 | 0°2 | T 17 | |
| W18 | 1 48 52 | 25°20'01 | 14°28 | 13°17 | 9°59 | 18°50 | 9°39 | 22°17 | 2°13 | 0°33 | 12°22 | 21°50 | 23°10 | 16°48 | 0°1 | W18 | |
| T 19 | 1 52 48 | 26°19'15 | 27°6 | 14°45 | 11°4 | 19°33 | 9°52 | 22°24 | 2°11 | 0°35 | 12°21 | 21°44 | 23°6 | 16°54 | 29♉59 | T 19 | |
| F 20 | 1 56 45 | 27°18'31 | 9♎27 | 16°11 | 12°9 | 20°16 | 10°5 | 22°31 | 2°9 | 0°37 | 12°20 | 21°41 | 23°3 | 17°1 | 29°58 | F 20 | |
| S 21 | 2 0 42 | 28°17'49 | 21°34 | 17°37 | 13°14 | 20°59 | 10°18 | 22°37 | 2°7 | 0°39 | 12°19 | 21°D40 | 23°0 | 17°8 | 29°57 | S 21 | |
| S 22 | 2 4 38 | 29°17'10 | 3♉30 | 19°2 | 14°19 | 21°42 | 10°30 | 22°44 | 2°4 | 0°41 | 12°18 | 21°41 | 22°57 | 17°14 | 29°56 | S 22 | |
| M23 | 2 8 35 | 0♎16'33 | 15°20 | 20°26 | 15°25 | 22°25 | 10°43 | 22°51 | 2°2 | 0°43 | 12°17 | 21°42 | 22°54 | 17°21 | 29°55 | M23 | |
| T 24 | 2 12 31 | 1°15'58 | 27°9 | 21°49 | 16°30 | 23°8 | 10°55 | 22°57 | 2°0 | 0°45 | 12°16 | 21°R43 | 22°51 | 17°28 | 29°54 | T 24 | |
| W25 | 2 16 28 | 2°15'26 | 9♌2 | 23°11 | 17°37 | 23°51 | 11°8 | 23°4 | 1°58 | 0°47 | 12°15 | 21°43 | 22°47 | 17°34 | 29°53 | W25 | |
| T 26 | 2 20 24 | 3°14'55 | 21°4 | 24°33 | 18°43 | 24°35 | 11°20 | 23°10 | 1°57 | 0°49 | 12°13 | 21°41 | 22°44 | 17°41 | 29°52 | T 26 | |
| F 27 | 2 24 21 | 4°14'27 | 3♎20 | 25°53 | 19°49 | 25°18 | 11°33 | 23°17 | 1°55 | 0°50 | 12°12 | 21°37 | 22°41 | 17°48 | 29°51 | F 27 | |
| S 28 | 2 28 17 | 5°14'01 | 15°55 | 27°12 | 20°56 | 26°2 | 11°45 | 23°23 | 1°53 | 0°52 | 12°11 | 21°31 | 22°38 | 17°54 | 29°51 | S 28 | |
| S 29 | 2 32 14 | 6°13'38 | 28°50 | 28°30 | 22°3 | 26°45 | 11°58 | 23°29 | 1°51 | 0°54 | 12°10 | 21°24 | 22°35 | 18°1 | 29°50 | S 29 | |
| M30 | 2 36 11 | 7°13'16 | 12♉8 | 29°46 | 23°11 | 27°29 | 12°10 | 23°35 | 1°49 | 0°56 | 12°9 | 21°17 | 22°32 | 18°8 | 29°49 | M30 | |
| T 31 | 2 40 7 | 8♎12'56 | 25♉47 | 1♉1 | 24♎18 | 28♉13 | 12♉22 | 23♎42 | 1°Y47 | 0♉58 | 12♉8 | 21♎9 | 22♎28 | 18♉14 | 29♉49 | T 31 | |

Delta T = 20m03s

ASTRODIENST EPHEMERIS for the year 2597
geocentric

NOVEMBER 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|--------|------|-----|
| W 1 | 2 44 4 | 9♏12'39 | 9♏45 | 2♂15 | 25♎26 | 28♂56 | 12♂34 | 23♎48 | 1°R45 | 1♁ 0 | 12°R 7 | 21°R 3 | 22♏25 | 18♏21 | 29°R48 | W 1 | |
| T 2 | 2 48 0 | 10°12'24 | 23°57 | 3°27 | 26°34 | 29°40 | 12°47 | 23°54 | 1°Y44 | 1° 2 | 12♏ 6 | 20♏58 | 22°22 | 18°28 | 29°R48 | T 2 | |
| F 3 | 2 51 57 | 11°12'10 | 8♂19 | 4°37 | 27°42 | 0♂24 | 12°59 | 24° 0 | 1°42 | 1° 4 | 12° 4 | 20°56 | 22°19 | 18°34 | 29°47 | F 3 | |
| S 4 | 2 55 53 | 12°11'59 | 22°46 | 5°45 | 28°50 | 1° 8 | 13°11 | 24° 6 | 1°40 | 1° 5 | 12° 3 | 20°D55 | 22°16 | 18°41 | 29°47 | S 4 | |
| S 5 | 2 59 50 | 13°11'49 | 7♂12 | 6°52 | 29°58 | 1°52 | 13°23 | 24°12 | 1°39 | 1° 7 | 12° 2 | 20°56 | 22°12 | 18°47 | 29°47 | S 5 | |
| M 6 | 3 3 46 | 14°11'41 | 21°33 | 7°55 | 1♁ 7 | 2°37 | 13°35 | 24°17 | 1°37 | 1° 9 | 12° 1 | 20°57 | 22° 9 | 18°54 | 29°47 | M 6 | |
| T 7 | 3 7 43 | 15°11'34 | 5♏47 | 8°56 | 2°16 | 3°21 | 13°47 | 24°23 | 1°36 | 1°11 | 12° 0 | 20°58 | 22° 6 | 19° 1 | 29°47 | T 7 | |
| W 8 | 3 11 40 | 16°11'29 | 19°51 | 9°55 | 3°25 | 4° 5 | 13°59 | 24°29 | 1°34 | 1°12 | 11°59 | 20°R59 | 22° 3 | 19° 7 | 29°D47 | W 8 | |
| T 9 | 3 15 36 | 17°11'25 | 3♂46 | 10°50 | 4°34 | 4°50 | 14°11 | 24°34 | 1°33 | 1°14 | 11°58 | 20°58 | 22° 0 | 19°14 | 29°47 | T 9 | |
| F 10 | 3 19 33 | 18°11'23 | 17°29 | 11°41 | 5°43 | 5°34 | 14°23 | 24°40 | 1°31 | 1°16 | 11°57 | 20°55 | 21°57 | 19°21 | 29°47 | F 10 | |
| S 11 | 3 23 29 | 19°11'23 | 1°Y 1 | 12°28 | 6°53 | 6°19 | 14°34 | 24°45 | 1°30 | 1°17 | 11°55 | 20°51 | 21°53 | 19°27 | 29°47 | S 11 | |
| S 12 | 3 27 26 | 20°11'24 | 14°20 | 13°11 | 8° 2 | 7° 3 | 14°46 | 24°51 | 1°28 | 1°19 | 11°54 | 20°46 | 21°50 | 19°34 | 29°47 | S 12 | |
| M13 | 3 31 22 | 21°11'27 | 27°26 | 13°49 | 9°12 | 7°48 | 14°58 | 24°56 | 1°27 | 1°20 | 11°53 | 20°41 | 21°47 | 19°41 | 29°47 | M13 | |
| T 14 | 3 35 19 | 22°11'31 | 10♏18 | 14°21 | 10°22 | 8°33 | 15° 9 | 25° 1 | 1°26 | 1°22 | 11°52 | 20°36 | 21°44 | 19°47 | 29°48 | T 14 | |
| W15 | 3 39 15 | 23°11'38 | 22°57 | 14°47 | 11°32 | 9°18 | 15°21 | 25° 7 | 1°25 | 1°24 | 11°51 | 20°32 | 21°41 | 19°54 | 29°48 | W15 | |
| T 16 | 3 43 12 | 24°11'46 | 5♏22 | 15° 6 | 12°42 | 10° 3 | 15°32 | 25°12 | 1°23 | 1°25 | 11°50 | 20°30 | 21°38 | 20° 1 | 29°49 | T 16 | |
| F 17 | 3 47 9 | 25°11'56 | 17°34 | 15°18 | 13°52 | 10°48 | 15°44 | 25°17 | 1°22 | 1°27 | 11°49 | 20°D29 | 21°34 | 20° 7 | 29°49 | F 17 | |
| S 18 | 3 51 5 | 26°12'08 | 29°36 | 15°R21 | 15° 3 | 11°33 | 15°55 | 25°22 | 1°21 | 1°28 | 11°48 | 20°29 | 21°31 | 20°14 | 29°50 | S 18 | |
| S 19 | 3 55 2 | 27°12'21 | 11♏30 | 15°16 | 16°14 | 12°18 | 16° 6 | 25°27 | 1°20 | 1°29 | 11°47 | 20°31 | 21°28 | 20°21 | 29°50 | S 19 | |
| M20 | 3 58 58 | 28°12'37 | 23°19 | 15° 1 | 17°24 | 13° 3 | 16°17 | 25°31 | 1°19 | 1°31 | 11°45 | 20°32 | 21°25 | 20°27 | 29°51 | M20 | |
| T 21 | 4 2 55 | 29°12'55 | 5♏ 7 | 14°36 | 18°35 | 13°48 | 16°28 | 25°36 | 1°18 | 1°32 | 11°44 | 20°34 | 21°22 | 20°34 | 29°52 | T 21 | |
| W22 | 4 6 51 | 0♂13'14 | 16°59 | 14° 1 | 19°46 | 14°33 | 16°39 | 25°41 | 1°17 | 1°34 | 11°43 | 20°35 | 21°18 | 20°41 | 29°53 | W22 | |
| T 23 | 4 10 48 | 1°13'35 | 29° 0 | 13°16 | 20°57 | 15°19 | 16°50 | 25°45 | 1°16 | 1°35 | 11°42 | 20°R36 | 21°15 | 20°47 | 29°54 | T 23 | |
| F 24 | 4 14 44 | 2°13'58 | 11♎14 | 12°21 | 22° 9 | 16° 4 | 17° 1 | 25°50 | 1°16 | 1°36 | 11°41 | 20°36 | 21°12 | 20°54 | 29°55 | F 24 | |
| S 25 | 4 18 41 | 3°14'23 | 23°46 | 11°18 | 23°20 | 16°49 | 17°12 | 25°54 | 1°15 | 1°38 | 11°40 | 20°35 | 21° 9 | 21° 1 | 29°56 | S 25 | |
| S 26 | 4 22 38 | 4°14'50 | 6♁40 | 10° 7 | 24°31 | 17°35 | 17°23 | 25°59 | 1°14 | 1°39 | 11°39 | 20°33 | 21° 6 | 21° 7 | 29°57 | S 26 | |
| M27 | 4 26 34 | 5°15'19 | 19°59 | 8°50 | 25°43 | 18°21 | 17°33 | 26° 3 | 1°13 | 1°40 | 11°38 | 20°31 | 21° 3 | 21°14 | 29°58 | M27 | |
| T 28 | 4 30 31 | 6°15'49 | 3♏43 | 7°29 | 26°55 | 19° 6 | 17°44 | 26° 7 | 1°13 | 1°41 | 11°37 | 20°29 | 20°59 | 21°21 | 29°59 | T 28 | |
| W29 | 4 34 27 | 7°16'22 | 17°52 | 6° 8 | 28° 7 | 19°52 | 17°54 | 26°11 | 1°12 | 1°42 | 11°36 | 20°27 | 20°56 | 21°27 | 0♂ 1 | W29 | |
| T 30 | 4 38 24 | 8♂16'55 | 2♂22 | 4♂48 | 29♁18 | 20♂38 | 18♁ 5 | 26♎15 | 1°Y12 | 1♁44 | 11♏35 | 20♏26 | 20♏53 | 21♏34 | 0♂ 2 | T 30 | |

Delta T = 20m04s

DECEMBER 2597

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|------|------|-----|
| F 1 | 4 42 20 | 9♂17'31 | 17♂ 7 | 3°R33 | 0♏30 | 21♂23 | 18♁15 | 26♎19 | 1°R11 | 1♁45 | 11°R34 | 20°D25 | 20♏50 | 21♏41 | 0♂ 4 | F 1 | |
| S 2 | 4 46 17 | 10°18'08 | 1♂59 | 2♂25 | 1°43 | 22° 9 | 18°25 | 26°23 | 1°Y11 | 1°46 | 11♏33 | 20♏26 | 20°47 | 21°47 | 0° 5 | S 2 | |
| S 3 | 4 50 13 | 11°18'46 | 16°52 | 1°25 | 2°55 | 22°55 | 18°35 | 26°26 | 1°10 | 1°47 | 11°32 | 20°26 | 20°44 | 21°54 | 0° 7 | S 3 | |
| M 4 | 4 54 10 | 12°19'25 | 1♏38 | 0°36 | 4° 7 | 23°41 | 18°45 | 26°30 | 1°10 | 1°48 | 11°31 | 20°27 | 20°40 | 22° 1 | 0° 8 | M 4 | |
| T 5 | 4 58 7 | 13°20'05 | 16°10 | 29♏57 | 5°19 | 24°27 | 18°55 | 26°33 | 1°10 | 1°49 | 11°30 | 20°28 | 20°37 | 22° 7 | 0°10 | T 5 | |
| W 6 | 5 2 3 | 14°20'47 | 0♂25 | 29°31 | 6°32 | 25°13 | 19° 5 | 26°37 | 1°10 | 1°50 | 11°29 | 20°28 | 20°34 | 22°14 | 0°12 | W 6 | |
| T 7 | 5 6 0 | 15°21'29 | 14°22 | 29°16 | 7°44 | 25°59 | 19°15 | 26°40 | 1° 9 | 1°51 | 11°28 | 20°R28 | 20°31 | 22°21 | 0°14 | T 7 | |
| F 8 | 5 9 56 | 16°22'12 | 27°58 | 29°D12 | 8°57 | 26°45 | 19°24 | 26°43 | 1° 9 | 1°51 | 11°27 | 20°28 | 20°28 | 22°27 | 0°15 | F 8 | |
| S 9 | 5 13 53 | 17°22'56 | 11°Y16 | 29°19 | 10°10 | 27°32 | 19°34 | 26°46 | 1° 9 | 1°52 | 11°27 | 20°28 | 20°24 | 22°34 | 0°17 | S 9 | |
| S 10 | 5 17 49 | 18°23'42 | 24°17 | 29°35 | 11°22 | 28°18 | 19°43 | 26°49 | 1°D 9 | 1°53 | 11°26 | 20°28 | 20°21 | 22°41 | 0°19 | S 10 | |
| M11 | 5 21 46 | 19°24'28 | 7♂ 2 | 0♂ 1 | 12°35 | 29° 4 | 19°52 | 26°52 | 1° 9 | 1°54 | 11°25 | 20°27 | 20°18 | 22°47 | 0°21 | M11 | |
| T 12 | 5 25 42 | 20°25'15 | 19°33 | 0°35 | 13°48 | 29°50 | 20° 2 | 26°55 | 1° 9 | 1°55 | 11°24 | 20°D27 | 20°15 | 22°54 | 0°23 | T 12 | |
| W13 | 5 29 39 | 21°26'03 | 1♏53 | 1°16 | 15° 1 | 0♂37 | 20°11 | 26°58 | 1° 9 | 1°55 | 11°23 | 20°27 | 20°12 | 23° 1 | 0°26 | W13 | |
| T 14 | 5 33 36 | 22°26'52 | 14° 3 | 2° 3 | 16°14 | 1°23 | 20°20 | 27° 0 | 1°10 | 1°56 | 11°22 | 20°27 | 20° 9 | 23° 7 | 0°28 | T 14 | |
| F 15 | 5 37 32 | 23°27'43 | 26° 5 | 2°56 | 17°27 | 2°10 | 20°28 | 27° 3 | 1°10 | 1°57 | 11°22 | 20°R27 | 20° 5 | 23°14 | 0°30 | F 15 | |
| S 16 | 5 41 29 | 24°28'34 | 8♏ 1 | 3°55 | 18°40 | 2°56 | 20°37 | 27° 5 | 1°10 | 1°57 | 11°21 | 20°27 | 20° 2 | 23°21 | 0°32 | S 16 | |
| S 17 | 5 45 25 | 25°29'26 | 19°52 | 4°57 | 19°53 | 3°43 | 20°46 | 27° 7 | 1°10 | 1°58 | 11°20 | 20°27 | 19°59 | 23°27 | 0°35 | S 17 | |
| M18 | 5 49 22 | 26°30'20 | 1♁40 | 6° 3 | 21° 7 | 4°29 | 20°54 | 27°10 | 1°11 | 1°58 | 11°19 | 20°26 | 19°56 | 23°34 | 0°37 | M18 | |
| T 19 | 5 53 18 | 27°31'14 | 13°30 | 7°13 | 22°20 | 5°16 | 21° 3 | 27°12 | 1°11 | 1°59 | 11°18 | 20°25 | 19°53 | 23°41 | 0°40 | T 19 | |
| W20 | 5 57 15 | 28°32'10 | 25°23 | 8°25 | 23°33 | 6° 2 | 21°11 | 27°14 | 1°12 | 2° 0 | 11°18 | 20°24 | 19°50 | 23°47 | 0°42 | W20 | |
| T 21 | 6 1 12 | 29°33'06 | 7♎23 | 9°40 | 24°47 | 6°49 | 21°19 | 27°16 | 1°12 | 2° 0 | 11°17 | 20°23 | 19°46 | 23°54 | 0°45 | T 21 | |
| F 22 | 6 5 8 | 0♂34'04 | 19°35 | 10°57 | 26° 0 | 7°36 | 21°27 | 27°17 | 1°13 | 2° 0 | 11°16 | 20°22 | 19°43 | 24° 1 | 0°47 | F 22 | |
| S 23 | 6 9 5 | 1°35'03 | 2♁ 2 | 12°16 | 27°14 | 8°23 | 21°35 | 27°19 | 1°14 | 2° 1 | 11°16 | 20°D22 | 19°40 | 24° 7 | 0°50 | S 23 | |
| S 24 | 6 13 1 | 2°36'03 | 14°49 | 13°37 | 28°28 | 9° 9 | 21°43 | 27°21 | 1°14 | 2° 1 | 11°15 | 20°22 | 19°37 | 24°14 | 0°53 | S 24 | |
| M25 | 6 16 58 | 3°37'03 | 28° 0 | 14°59 | 29°41 | 9°56 | 21°50 | 27°22 | 1°15 | 2° 1 | 11°14 | 20°23 | 19°34 | 24°21 | 0°56 | M25 | |
| T 26 | 6 20 54 | 4°38'05 | 11♏37 | 16°22 | 0♂55 | 10°43 | 21°58 | 27°23 | 1°16 | 2° 2 | 11°14 | 20°24 | 19°30 | 24°27 | 0°59 | T 26 | |
| W27 | 6 24 51 | 5°39'08 | 25°41 | 17°46 | 2° 9 | 11°30 | 22° 5 | 27°25 | 1°17 | 2° 2 | 11°13 | 20°25 | 19°27 | 24°34 | 1° 1 | W27 | |
| T 28 | 6 28 47 | 6°40'12 | 10♂12 | 19°11 | 3°23 | 12°17 | 22°12 | 27°26 | 1°18 | 2° 2 | 11°13 | 20°26 | 19°24 | 24°41 | 1° 4 | T 28 | |
| F 29 | 6 32 44 | 7°41'16 | 25° 4 | 20°37 | 4°36 | 13° 4 | 22°19 | 27°27 | 1°19 | 2° 2 | 11°12 | 20°R27 | 19°21 | 24°47 | 1° 7 | F 29 | |
| S 30 | 6 36 41 | 8°42'21 | 10♂12 | 22° 4 | 5°50 | 13°51 | 22°26 | 27°28 | 1°20 | 2° 2 | 11°11 | 20°26 | 19°18 | 24°54 | 1°10 | S 30 | |
| S 31 | 6 40 37 | 9♂43'27 | 25♂25 | 23♂32 | 7♂ 4 | 14♏38 | 22♁33 | 27♎28 | 1°Y21 | 2♁ 3 | 11♏11 | 20♏24 | 19♏15 | 25♏ 1 | 1♂13 | S 31 | |

Delta T = 20m04s

ASTRODIENST EPHEMERIS for the year 2598
geocentric

JANUARY 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|------|------|--------|---------|---------|-------|------|------|-----|
| M 1 | 6 44 34 | 10♌44'33 | 10♋33 | 25♂0 | 8♂18 | 15♋25 | 22♌40 | 27♎29 | 1♏22 | 2♌3 | 11♏R10 | 20♏R21 | 19♏II11 | 25♏7 | 1♏17 | M 1 | |
| T 2 | 6 48 30 | 11°45'39 | 25°28 | 26°28 | 9°32 | 16°12 | 22°46 | 27°30 | 1°23 | 2°3 | 11♏10 | 20♏II18 | 19°8 | 25°14 | 1°20 | T 2 | |
| W 3 | 6 52 27 | 12°46'46 | 10♋2 | 27°57 | 10°46 | 16°59 | 22°52 | 27°30 | 1°24 | 2°R3 | 11°9 | 20°16 | 19°5 | 25°21 | 1°23 | W 3 | |
| T 4 | 6 56 23 | 13°47'52 | 24°11 | 29°27 | 12°0 | 17°46 | 22°59 | 27°30 | 1°25 | 2°3 | 11°9 | 20°13 | 19°2 | 25°27 | 1°26 | T 4 | |
| F 5 | 7 0 20 | 14°48'59 | 7♏54 | 0♌56 | 13°14 | 18°33 | 23°5 | 27°30 | 1°27 | 2°3 | 11°9 | 20°12 | 18°59 | 25°34 | 1°29 | F 5 | |
| S 6 | 7 4 16 | 15°50'05 | 21°10 | 2°27 | 14°29 | 19°20 | 23°11 | 27°R31 | 1°28 | 2°3 | 11°8 | 20°D12 | 18°56 | 25°41 | 1°33 | S 6 | |
| S 7 | 7 8 13 | 16°51'12 | 4♌3 | 3°57 | 15°43 | 20°7 | 23°16 | 27°31 | 1°29 | 2°2 | 11°8 | 20°13 | 18°52 | 25°48 | 1°36 | S 7 | |
| M 8 | 7 12 10 | 17°52'18 | 16°37 | 5°28 | 16°57 | 20°54 | 23°22 | 27°30 | 1°31 | 2°2 | 11°7 | 20°15 | 18°49 | 25°54 | 1°40 | M 8 | |
| T 9 | 7 16 6 | 18°53'25 | 28°56 | 7°0 | 18°11 | 21°41 | 23°27 | 27°30 | 1°32 | 2°2 | 11°7 | 20°17 | 18°46 | 26°1 | 1°43 | T 9 | |
| W10 | 7 20 3 | 19°54'31 | 11♏2 | 8°31 | 19°25 | 22°29 | 23°32 | 27°30 | 1°34 | 2°2 | 11°7 | 20°18 | 18°43 | 26°8 | 1°47 | W10 | |
| T 11 | 7 23 59 | 20°55'37 | 23°1 | 10°3 | 20°40 | 23°16 | 23°38 | 27°29 | 1°35 | 2°2 | 11°6 | 20°R18 | 18°40 | 26°14 | 1°50 | T 11 | |
| F 12 | 7 27 56 | 21°56'44 | 4♌54 | 11°36 | 21°54 | 24°3 | 23°42 | 27°29 | 1°37 | 2°1 | 11°6 | 20°17 | 18°36 | 26°21 | 1°54 | F 12 | |
| S 13 | 7 31 52 | 22°57'50 | 16°44 | 13°8 | 23°8 | 24°50 | 23°47 | 27°28 | 1°39 | 2°1 | 11°6 | 20°14 | 18°33 | 26°28 | 1°57 | S 13 | |
| S 14 | 7 35 49 | 23°58'56 | 28°33 | 14°41 | 24°23 | 25°38 | 23°52 | 27°27 | 1°40 | 2°1 | 11°6 | 20°10 | 18°30 | 26°34 | 2°1 | S 14 | |
| M15 | 7 39 45 | 25°0'03 | 10♏24 | 16°15 | 25°37 | 26°25 | 23°56 | 27°27 | 1°42 | 2°0 | 11°6 | 20°4 | 18°27 | 26°41 | 2°5 | M15 | |
| T 16 | 7 43 42 | 26°1'09 | 22°17 | 17°49 | 26°51 | 27°12 | 24°1 | 27°26 | 1°44 | 2°0 | 11°5 | 19°57 | 18°24 | 26°48 | 2°8 | T 16 | |
| W17 | 7 47 39 | 27°2'15 | 4♎15 | 19°23 | 28°6 | 27°59 | 24°5 | 27°25 | 1°46 | 1°59 | 11°5 | 19°50 | 18°21 | 26°54 | 2°12 | W17 | |
| T 18 | 7 51 35 | 28°3'21 | 16°20 | 20°58 | 29°20 | 28°47 | 24°9 | 27°23 | 1°48 | 1°59 | 11°5 | 19°43 | 18°17 | 27°1 | 2°16 | T 18 | |
| F 19 | 7 55 32 | 29°4'27 | 28°34 | 22°33 | 0♌35 | 29°34 | 24°12 | 27°22 | 1°50 | 1°58 | 11°5 | 19°37 | 18°14 | 27°8 | 2°20 | F 19 | |
| S 20 | 7 59 28 | 0♌5'34 | 11♏1 | 24°8 | 1°49 | 0♏21 | 24°16 | 27°21 | 1°52 | 1°58 | 11°5 | 19°34 | 18°11 | 27°14 | 2°23 | S 20 | |
| S 21 | 8 3 25 | 1°6'40 | 23°44 | 25°44 | 3°4 | 1°8 | 24°19 | 27°19 | 1°54 | 1°57 | 11°5 | 19°32 | 18°8 | 27°21 | 2°27 | S 21 | |
| M22 | 8 7 21 | 2°7'46 | 6♎46 | 27°20 | 4°18 | 1°56 | 24°22 | 27°17 | 1°56 | 1°56 | 11°5 | 19°D31 | 18°5 | 27°28 | 2°31 | M22 | |
| T 23 | 8 11 18 | 3°8'52 | 20°12 | 28°57 | 5°33 | 2°43 | 24°25 | 27°16 | 1°58 | 1°56 | 11°5 | 19°32 | 18°2 | 27°34 | 2°35 | T 23 | |
| W24 | 8 15 14 | 4°9'58 | 4♏3 | 0♌35 | 6°47 | 3°30 | 24°28 | 27°14 | 2°0 | 1°55 | 11°D5 | 19°34 | 17°58 | 27°41 | 2°39 | W24 | |
| T 25 | 8 19 11 | 5°11'05 | 18°20 | 2°12 | 8°2 | 4°18 | 24°31 | 27°12 | 2°2 | 1°54 | 11°5 | 19°R35 | 17°55 | 27°48 | 2°43 | T 25 | |
| F 26 | 8 23 8 | 6°12'11 | 3♌2 | 3°51 | 9°17 | 5°5 | 24°33 | 27°10 | 2°4 | 1°54 | 11°5 | 19°34 | 17°52 | 27°54 | 2°47 | F 26 | |
| S 27 | 8 27 4 | 7°13'16 | 18°5 | 5°30 | 10°31 | 5°52 | 24°36 | 27°8 | 2°7 | 1°53 | 11°5 | 19°31 | 17°49 | 28°1 | 2°51 | S 27 | |
| S 28 | 8 31 1 | 8°14'22 | 3♌20 | 7°9 | 11°46 | 6°40 | 24°38 | 27°5 | 2°9 | 1°52 | 11°5 | 19°26 | 17°46 | 28°8 | 2°55 | S 28 | |
| M29 | 8 34 57 | 9°15'26 | 18°37 | 8°49 | 13°0 | 7°27 | 24°40 | 27°3 | 2°11 | 1°51 | 11°5 | 19°19 | 17°42 | 28°14 | 2°59 | M29 | |
| T 30 | 8 38 54 | 10°16'30 | 3♏45 | 10°30 | 14°15 | 8°14 | 24°42 | 27°1 | 2°14 | 1°50 | 11°5 | 19°10 | 17°39 | 28°21 | 3°3 | T 30 | |
| W31 | 8 42 50 | 11°17'34 | 18♏34 | 12°11 | 15♌30 | 9♏2 | 24°43 | 26♎58 | 2°16 | 1°49 | 11♏5 | 19°II2 | 17°II36 | 28°28 | 3♏7 | W31 | |

Delta T = 20m04s

FEBRUARY 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|------|-------|-------|---------|---------|-------|------|------|-----|
| T 1 | 8 46 47 | 12°18'36 | 2♏57 | 13°53 | 16♌44 | 9♏49 | 24°45 | 26°R56 | 2°19 | 1°R48 | 11♏5 | 18°R55 | 17°II33 | 28°34 | 3♏11 | T 1 | |
| F 2 | 8 50 43 | 13°19'37 | 16°51 | 15°35 | 17°59 | 10°36 | 24°46 | 26♎53 | 2°21 | 1°48 | 11°5 | 18°II49 | 17°30 | 28°41 | 3°15 | F 2 | |
| S 3 | 8 54 40 | 14°20'38 | 0♌15 | 17°18 | 19°14 | 11°23 | 24°47 | 26°50 | 2°24 | 1°47 | 11°6 | 18°46 | 17°27 | 28°48 | 3°20 | S 3 | |
| S 4 | 8 58 37 | 15°21'37 | 13°12 | 19°1 | 20°29 | 12°11 | 24°47 | 26°47 | 2°26 | 1°46 | 11°6 | 18°D45 | 17°23 | 28°54 | 3°24 | S 4 | |
| M 5 | 9 2 33 | 16°22'35 | 25°45 | 20°45 | 21°43 | 12°58 | 24°48 | 26°44 | 2°29 | 1°44 | 11°6 | 18°46 | 17°20 | 29°1 | 3°28 | M 5 | |
| T 6 | 9 6 30 | 17°23'33 | 7♏59 | 22°29 | 22°58 | 13°45 | 24°49 | 26°41 | 2°31 | 1°43 | 11°6 | 18°46 | 17°17 | 29°8 | 3°32 | T 6 | |
| W 7 | 9 10 26 | 18°24'29 | 20°0 | 24°14 | 24°13 | 14°33 | 24°49 | 26°38 | 2°34 | 1°42 | 11°7 | 18°R47 | 17°14 | 29°14 | 3°36 | W 7 | |
| T 8 | 9 14 23 | 19°25'24 | 1♌53 | 25°59 | 25°27 | 15°20 | 24°R49 | 26°35 | 2°37 | 1°41 | 11°7 | 18°46 | 17°11 | 29°21 | 3°41 | T 8 | |
| F 9 | 9 18 19 | 20°26'18 | 13°41 | 27°45 | 26°42 | 16°7 | 24°49 | 26°31 | 2°39 | 1°40 | 11°7 | 18°43 | 17°8 | 29°28 | 3°45 | F 9 | |
| S 10 | 9 22 16 | 21°27'10 | 25°29 | 29°31 | 27°57 | 16°54 | 24°48 | 26°28 | 2°42 | 1°39 | 11°8 | 18°37 | 17°4 | 29°35 | 3°49 | S 10 | |
| S 11 | 9 26 12 | 22°28'02 | 7♏20 | 1♏17 | 29°11 | 17°42 | 24°48 | 26°24 | 2°45 | 1°38 | 11°8 | 18°28 | 17°1 | 29°41 | 3°53 | S 11 | |
| M12 | 9 30 9 | 23°28'53 | 19°14 | 3°3 | 0♌26 | 18°29 | 24°47 | 26°21 | 2°48 | 1°37 | 11°8 | 18°17 | 16°58 | 29°48 | 3°58 | M12 | |
| T 13 | 9 34 6 | 24°29'42 | 1♎15 | 4°49 | 1°41 | 19°16 | 24°46 | 26°17 | 2°51 | 1°35 | 11°9 | 18°4 | 16°55 | 29°55 | 4°2 | T 13 | |
| W14 | 9 38 2 | 25°30'30 | 13°23 | 6°35 | 2°56 | 20°3 | 24°45 | 26°13 | 2°53 | 1°34 | 11°9 | 17°51 | 16°52 | 0♏1 | 4°6 | W14 | |
| T 15 | 9 41 59 | 26°31'17 | 25°38 | 8°21 | 4°10 | 20°50 | 24°44 | 26°10 | 2°56 | 1°33 | 11°10 | 17°38 | 16°48 | 0°8 | 4°10 | T 15 | |
| F 16 | 9 45 55 | 27°32'04 | 8♌3 | 10°6 | 5°25 | 21°37 | 24°42 | 26°6 | 2°59 | 1°31 | 11°10 | 17°28 | 16°45 | 0°15 | 4°15 | F 16 | |
| S 17 | 9 49 52 | 28°32'49 | 20°38 | 11°50 | 6°40 | 22°24 | 24°41 | 26°2 | 3°2 | 1°30 | 11°11 | 17°19 | 16°42 | 0°21 | 4°19 | S 17 | |
| S 18 | 9 53 48 | 29°33'33 | 3♎26 | 13°32 | 7°55 | 23°12 | 24°39 | 25°58 | 3°5 | 1°29 | 11°11 | 17°14 | 16°39 | 0°28 | 4°23 | S 18 | |
| M19 | 9 57 45 | 0♏34'16 | 16°29 | 15°13 | 9°9 | 23°59 | 24°37 | 25°54 | 3°8 | 1°27 | 11°12 | 17°11 | 16°36 | 0°35 | 4°28 | M19 | |
| T 20 | 10 1 41 | 1°34'59 | 29°49 | 16°52 | 10°24 | 24°46 | 24°35 | 25°50 | 3°11 | 1°26 | 11°12 | 17°D10 | 16°33 | 0°41 | 4°32 | T 20 | |
| W21 | 10 5 38 | 2°35'40 | 13♏29 | 18°29 | 11°39 | 25°33 | 24°32 | 25°46 | 3°14 | 1°25 | 11°13 | 17°R10 | 16°29 | 0°48 | 4°36 | W21 | |
| T 22 | 10 9 35 | 3°36'21 | 27°30 | 20°2 | 12°54 | 26°20 | 24°30 | 25°41 | 3°17 | 1°23 | 11°14 | 17°10 | 16°26 | 0°55 | 4°41 | T 22 | |
| F 23 | 10 13 31 | 4°37'00 | 11♌54 | 21°32 | 14°9 | 27°7 | 24°27 | 25°37 | 3°20 | 1°22 | 11°14 | 17°8 | 16°23 | 1°1 | 4°45 | F 23 | |
| S 24 | 10 17 28 | 5°37'38 | 26°38 | 22°58 | 15°23 | 27°54 | 24°24 | 25°33 | 3°23 | 1°20 | 11°15 | 17°3 | 16°20 | 1°8 | 4°49 | S 24 | |
| S 25 | 10 21 24 | 6°38'15 | 11♋36 | 24°18 | 16°38 | 28°41 | 24°21 | 25°28 | 3°27 | 1°19 | 11°16 | 16°56 | 16°17 | 1°15 | 4°54 | S 25 | |
| M26 | 10 25 21 | 7°38'51 | 26°41 | 25°34 | 17°53 | 29°28 | 24°17 | 25°24 | 3°30 | 1°17 | 11°16 | 16°46 | 16°14 | 1°21 | 4°58 | M26 | |
| T 27 | 10 29 17 | 8°39'25 | 11♏43 | 26°43 | 19°8 | 0♏15 | 24°14 | 25°19 | 3°33 | 1°16 | 11°17 | 16°II4 | 16°10 | 1°28 | 5°2 | T 27 | |
| W28 | 10 33 14 | 9♏39'58 | 26♏31 | 27♏45 | 20°22 | 1♏2 | 24°10 | 25♎15 | 3°36 | 1°14 | 11♏18 | 16°II23 | 16°II7 | 1°35 | 5♏7 | W28 | |

Delta T = 20m05s

ASTRODIENST EPHEMERIS for the year 2598
geocentric

MARCH 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | ♅ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|--------|------|-------|-------|--------|-------|------|------|------|-----|
| T 1 | 10 37 10 | 10♋40'29 | 10♏59 | 28♋39 | 21♋37 | 1♏48 | 24°R 6 | 25°R10 | 3♏39 | 1°R13 | 11♋18 | 16°R12 | 16♏ 4 | 1♏42 | 5♋11 | T 1 | |
| F 2 | 10 41 7 | 11°40'59 | 24°59 | 29°25 | 22°52 | 2°35 | 24♌ 2 | 25♏ 6 | 3°43 | 1♌11 | 11°19 | 16♏ 3 | 16° 1 | 1°48 | 5°15 | F 2 | |
| S 3 | 10 45 4 | 12°41'26 | 8♌30 | 0♏ 2 | 24° 7 | 3°22 | 23°58 | 25° 1 | 3°46 | 1°10 | 11°20 | 15°57 | 15°58 | 1°55 | 5°20 | S 3 | |
| S 4 | 10 49 0 | 13°41'52 | 21°32 | 0°30 | 25°22 | 4° 9 | 23°54 | 24°57 | 3°49 | 1° 8 | 11°21 | 15°54 | 15°54 | 2° 2 | 5°24 | S 4 | |
| M 5 | 10 52 57 | 14°42'16 | 4♏10 | 0°49 | 26°36 | 4°56 | 23°49 | 24°52 | 3°52 | 1° 7 | 11°22 | 15°52 | 15°51 | 2° 8 | 5°28 | M 5 | |
| T 6 | 10 56 53 | 15°42'38 | 16°27 | 0°R57 | 27°51 | 5°42 | 23°45 | 24°47 | 3°56 | 1° 5 | 11°22 | 15°52 | 15°48 | 2°15 | 5°32 | T 6 | |
| W 7 | 11 0 50 | 16°42'59 | 28°29 | 0°56 | 29° 6 | 6°29 | 23°40 | 24°43 | 3°59 | 1° 4 | 11°23 | 15°52 | 15°45 | 2°22 | 5°37 | W 7 | |
| T 8 | 11 4 46 | 17°43'17 | 10♌22 | 0°45 | 0♋21 | 7°16 | 23°35 | 24°38 | 4° 2 | 1° 2 | 11°24 | 15°50 | 15°42 | 2°28 | 5°41 | T 8 | |
| F 9 | 11 8 43 | 18°43'33 | 22°10 | 0°25 | 1°35 | 8° 2 | 23°30 | 24°33 | 4° 6 | 1° 0 | 11°25 | 15°47 | 15°39 | 2°35 | 5°45 | F 9 | |
| S 10 | 11 12 39 | 19°43'48 | 3♏59 | 29♋55 | 2°50 | 8°49 | 23°24 | 24°28 | 4° 9 | 0°59 | 11°26 | 15°40 | 15°35 | 2°42 | 5°49 | S 10 | |
| S 11 | 11 16 36 | 20°44'00 | 15°52 | 29°18 | 4° 5 | 9°35 | 23°19 | 24°23 | 4°12 | 0°57 | 11°27 | 15°31 | 15°32 | 2°48 | 5°54 | S 11 | |
| M12 | 11 20 33 | 21°44'11 | 27°52 | 28°33 | 5°19 | 10°22 | 23°13 | 24°19 | 4°16 | 0°55 | 11°28 | 15°19 | 15°29 | 2°55 | 5°58 | M12 | |
| T 13 | 11 24 29 | 22°44'20 | 10♏ 2 | 27°42 | 6°34 | 11° 8 | 23° 8 | 24°14 | 4°19 | 0°54 | 11°29 | 15° 6 | 15°26 | 3° 2 | 6° 2 | T 13 | |
| W14 | 11 28 26 | 23°44'26 | 22°22 | 26°47 | 7°49 | 11°55 | 23° 2 | 24° 9 | 4°22 | 0°52 | 11°30 | 14°52 | 15°23 | 3° 8 | 6° 6 | W14 | |
| T 15 | 11 32 22 | 24°44'31 | 4♌52 | 25°48 | 9° 4 | 12°41 | 22°56 | 24° 4 | 4°26 | 0°50 | 11°31 | 14°38 | 15°19 | 3°15 | 6°10 | T 15 | |
| F 16 | 11 36 19 | 25°44'35 | 17°34 | 24°48 | 10°18 | 13°28 | 22°50 | 23°59 | 4°29 | 0°49 | 11°32 | 14°26 | 15°16 | 3°22 | 6°14 | F 16 | |
| S 17 | 11 40 15 | 26°44'36 | 0♏27 | 23°47 | 11°33 | 14°14 | 22°44 | 23°55 | 4°33 | 0°47 | 11°33 | 14°17 | 15°13 | 3°28 | 6°19 | S 17 | |
| S 18 | 11 44 12 | 27°44'36 | 13°30 | 22°47 | 12°48 | 15° 0 | 22°37 | 23°50 | 4°36 | 0°46 | 11°34 | 14°11 | 15°10 | 3°35 | 6°23 | S 18 | |
| M19 | 11 48 8 | 28°44'34 | 26°45 | 21°49 | 14° 2 | 15°47 | 22°31 | 23°45 | 4°39 | 0°44 | 11°35 | 14° 7 | 15° 7 | 3°42 | 6°27 | M19 | |
| T 20 | 11 52 5 | 29°44'31 | 10♌12 | 20°54 | 15°17 | 16°33 | 22°24 | 23°40 | 4°43 | 0°42 | 11°36 | 14°D 6 | 15° 4 | 3°49 | 6°31 | T 20 | |
| W21 | 11 56 2 | 0♏44'26 | 23°52 | 20° 4 | 16°32 | 17°19 | 22°18 | 23°36 | 4°46 | 0°41 | 11°37 | 14°R 6 | 15° 0 | 3°55 | 6°35 | W21 | |
| T 22 | 11 59 58 | 1°44'20 | 7♌47 | 19°19 | 17°46 | 18° 5 | 22°11 | 23°31 | 4°50 | 0°39 | 11°38 | 14° 6 | 14°57 | 4° 2 | 6°39 | T 22 | |
| F 23 | 12 3 55 | 2°44'12 | 21°57 | 18°39 | 19° 1 | 18°51 | 22° 4 | 23°26 | 4°53 | 0°37 | 11°39 | 14° 5 | 14°54 | 4° 9 | 6°43 | F 23 | |
| S 24 | 12 7 51 | 3°44'02 | 6♌21 | 18° 6 | 20°16 | 19°37 | 21°57 | 23°21 | 4°56 | 0°36 | 11°40 | 14° 1 | 14°51 | 4°15 | 6°47 | S 24 | |
| S 25 | 12 11 48 | 4°43'51 | 20°55 | 17°38 | 21°30 | 20°23 | 21°50 | 23°17 | 5° 0 | 0°34 | 11°41 | 13°55 | 14°48 | 4°22 | 6°51 | S 25 | |
| M26 | 12 15 44 | 5°43'38 | 5♋35 | 17°17 | 22°45 | 21° 9 | 21°43 | 23°12 | 5° 3 | 0°32 | 11°43 | 13°47 | 14°45 | 4°29 | 6°55 | M26 | |
| T 27 | 12 19 41 | 6°43'23 | 20°14 | 17° 3 | 23°59 | 21°55 | 21°36 | 23° 8 | 5° 7 | 0°31 | 11°44 | 13°36 | 14°41 | 4°35 | 6°59 | T 27 | |
| W28 | 12 23 37 | 7°43'06 | 4♏44 | 16°54 | 25°14 | 22°41 | 21°28 | 23° 3 | 5°10 | 0°29 | 11°45 | 13°26 | 14°38 | 4°42 | 7° 2 | W28 | |
| T 29 | 12 27 34 | 8°42'48 | 18°58 | 16°D52 | 26°29 | 23°27 | 21°21 | 22°58 | 5°14 | 0°27 | 11°46 | 13°16 | 14°35 | 4°49 | 7° 6 | T 29 | |
| F 30 | 12 31 30 | 9°42'27 | 2♌51 | 16°56 | 27°43 | 24°13 | 21°14 | 22°54 | 5°17 | 0°26 | 11°47 | 13° 8 | 14°32 | 4°55 | 7°10 | F 30 | |
| S 31 | 12 35 27 | 10♏42'04 | 16♌20 | 17♋ 5 | 28♋58 | 24♏59 | 21♌ 6 | 22♏49 | 5♏20 | 0♌24 | 11♋48 | 13♏ 2 | 14♏29 | 5♏ 2 | 7♋14 | S 31 | |

Delta T = 20m05s

APRIL 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | ♅ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|------|-------|-------|--------|-------|------|------|------|-----|
| S 1 | 12 39 24 | 11♏41'39 | 29♌23 | 17♋20 | 0♏12 | 25♏45 | 20°R59 | 22°R45 | 5♏24 | 0°R22 | 11♋50 | 12°R59 | 14♏25 | 5♏ 9 | 7♋18 | S 1 | |
| M 2 | 12 43 20 | 12°41'12 | 12♏ 4 | 17°40 | 1°27 | 26°30 | 20♌51 | 22♏41 | 5°27 | 0♌21 | 11°51 | 12°D58 | 14°22 | 5°16 | 7°21 | M 2 | |
| T 3 | 12 47 17 | 13°40'43 | 24°24 | 18° 5 | 2°41 | 27°16 | 20°43 | 22°36 | 5°31 | 0°19 | 11°52 | 12♏58 | 14°19 | 5°22 | 7°25 | T 3 | |
| W 4 | 12 51 13 | 14°40'11 | 6♌30 | 18°34 | 3°56 | 28° 2 | 20°36 | 22°32 | 5°34 | 0°18 | 11°53 | 12°59 | 14°16 | 5°29 | 7°29 | W 4 | |
| T 5 | 12 55 10 | 15°39'37 | 18°25 | 19° 8 | 5°10 | 28°47 | 20°28 | 22°28 | 5°37 | 0°16 | 11°55 | 12°R59 | 14°13 | 5°36 | 7°32 | T 5 | |
| F 6 | 12 59 6 | 16°39'01 | 0♏15 | 19°46 | 6°25 | 29°33 | 20°20 | 22°24 | 5°41 | 0°14 | 11°56 | 12°58 | 14°10 | 5°42 | 7°36 | F 6 | |
| S 7 | 13 3 3 | 17°38'23 | 12° 6 | 20°28 | 7°39 | 0♋18 | 20°13 | 22°20 | 5°44 | 0°13 | 11°57 | 12°55 | 14° 6 | 5°49 | 7°39 | S 7 | |
| S 8 | 13 6 59 | 18°37'42 | 24° 2 | 21°13 | 8°54 | 1° 4 | 20° 5 | 22°16 | 5°48 | 0°11 | 11°58 | 12°50 | 14° 3 | 5°56 | 7°43 | S 8 | |
| M 9 | 13 10 56 | 19°36'59 | 6♏ 7 | 22° 2 | 10° 8 | 1°49 | 19°57 | 22°12 | 5°51 | 0°10 | 12° 0 | 12°42 | 14° 0 | 6° 2 | 7°46 | M 9 | |
| T 10 | 13 14 53 | 20°36'14 | 18°24 | 22°54 | 11°23 | 2°35 | 19°50 | 22° 8 | 5°54 | 0° 8 | 12° 1 | 12°33 | 13°57 | 6° 9 | 7°50 | T 10 | |
| W11 | 13 18 49 | 21°35'26 | 0♌54 | 23°50 | 12°37 | 3°20 | 19°42 | 22° 4 | 5°58 | 0° 7 | 12° 2 | 12°24 | 13°54 | 6°16 | 7°53 | W11 | |
| T 12 | 13 22 46 | 22°34'37 | 13°40 | 24°48 | 13°52 | 4° 5 | 19°34 | 22° 0 | 6° 1 | 0° 5 | 12° 3 | 12°15 | 13°51 | 6°22 | 7°56 | T 12 | |
| F 13 | 13 26 42 | 23°33'45 | 26°40 | 25°49 | 15° 6 | 4°50 | 19°26 | 21°56 | 6° 4 | 0° 4 | 12° 5 | 12° 7 | 13°47 | 6°29 | 8° 0 | F 13 | |
| S 14 | 13 30 39 | 24°32'52 | 9♏55 | 26°53 | 16°20 | 5°35 | 19°19 | 21°53 | 6° 8 | 0° 2 | 12° 6 | 12° 1 | 13°44 | 6°36 | 8° 3 | S 14 | |
| S 15 | 13 34 35 | 25°31'57 | 23°21 | 27°59 | 17°35 | 6°21 | 19°11 | 21°49 | 6°11 | 0° 1 | 12° 7 | 11°57 | 13°41 | 6°43 | 8° 6 | S 15 | |
| M16 | 13 38 32 | 26°30'59 | 6♌58 | 29° 7 | 18°49 | 7° 6 | 19° 3 | 21°45 | 6°14 | 29♏59 | 12° 9 | 11°D55 | 13°38 | 6°49 | 8°10 | M16 | |
| T 17 | 13 42 28 | 27°30'00 | 20°45 | 0♏18 | 20° 4 | 7°51 | 18°56 | 21°42 | 6°17 | 29°58 | 12°10 | 11°56 | 13°35 | 6°56 | 8°13 | T 17 | |
| W18 | 13 46 25 | 28°29'00 | 4♌39 | 1°31 | 21°18 | 8°36 | 18°48 | 21°39 | 6°21 | 29°56 | 12°11 | 11°57 | 13°31 | 7° 3 | 8°16 | W18 | |
| T 19 | 13 50 22 | 29°27'57 | 18°41 | 2°46 | 22°32 | 9°20 | 18°41 | 21°35 | 6°24 | 29°55 | 12°13 | 11°58 | 13°28 | 7° 9 | 8°19 | T 19 | |
| F 20 | 13 54 18 | 0♋26'53 | 2♌49 | 4° 4 | 23°47 | 10° 5 | 18°33 | 21°32 | 6°27 | 29°53 | 12°14 | 11°R58 | 13°25 | 7°16 | 8°22 | F 20 | |
| S 21 | 13 58 15 | 1°25'48 | 17° 2 | 5°23 | 25° 1 | 10°50 | 18°26 | 21°29 | 6°30 | 29°52 | 12°15 | 11°57 | 13°22 | 7°23 | 8°25 | S 21 | |
| S 22 | 14 2 11 | 2°24'40 | 1♋17 | 6°44 | 26°15 | 11°35 | 18°19 | 21°26 | 6°33 | 29°51 | 12°17 | 11°54 | 13°19 | 7°29 | 8°28 | S 22 | |
| M23 | 14 6 8 | 3°23'31 | 15°32 | 8° 7 | 27°30 | 12°20 | 18°11 | 21°23 | 6°37 | 29°49 | 12°18 | 11°50 | 13°16 | 7°36 | 8°31 | M23 | |
| T 24 | 14 10 4 | 4°22'20 | 29°42 | 9°32 | 28°44 | 13° 4 | 18° 4 | 21°20 | 6°40 | 29°48 | 12°20 | 11°44 | 13°12 | 7°43 | 8°34 | T 24 | |
| W25 | 14 14 1 | 5°21'07 | 13♏45 | 10°59 | 29°58 | 13°49 | 17°57 | 21°17 | 6°43 | 29°47 | 12°21 | 11°39 | 13° 9 | 7°49 | 8°36 | W25 | |
| T 26 | 14 17 57 | 6°19'52 | 27°34 | 12°27 | 1♌12 | 14°34 | 17°50 | 21°15 | 6°46 | 29°46 | 12°22 | 11°33 | 13° 6 | 7°56 | 8°39 | T 26 | |
| F 27 | 14 21 54 | 7°18'36 | 11♌ 7 | 13°57 | 2°27 | 15°18 | 17°43 | 21°12 | 6°49 | 29°44 | 12°24 | 11°29 | 13° 3 | 8° 3 | 8°42 | F 27 | |
| S 28 | 14 25 51 | 8°17'17 | 24°21 | 15°29 | 3°41 | 16° 3 | 17°36 | 21°10 | 6°52 | 29°43 | 12°25 | 11°26 | 13° 0 | 8°10 | 8°44 | S 28 | |
| S 29 | 14 29 47 | 9°15'57 | 7♏16 | 17° 3 | 4°55 | 16°47 | 17°29 | 21° 7 | 6°55 | 29°42 | 12°26 | 11°D25 | 12°56 | 8°16 | 8°47 | S 29 | |
| M30 | 14 33 44 | 10♌14'35 | 19♏52 | 18♏39 | 6♌ 9 | 17♌31 | 17♌23 | 21♏ 5 | 6♏58 | 29♏41 | 12♌28 | 11♏25 | 12♏53 | 8♏23 | 8♋50 | M30 | |

Delta T = 20m05s

ASTRODIENST EPHEMERIS for the year 2598
geocentric

MAY 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|------|--------|-------|--------|-------|-------|------|------|---|-----|
| T 1 | 14 37 40 | 11♁13'10 | 2♁12 | 20♁16 | 7♁23 | 18♁16 | 17°R16 | 21°R 3 | 7♁ 1 | 29°R39 | 12♁29 | 11♁26 | 12♁50 | 8♁30 | 8♁52 | T 1 | | |
| W 2 | 14 41 37 | 12°11'44 | 14°18 | 21°55 | 8°38 | 19° 0 | 17♁ 9 | 21°R 1 | 7° 4 | 29°R38 | 12°31 | 11°28 | 12°47 | 8°36 | 8°55 | W 2 | | |
| T 3 | 14 45 33 | 13°10'15 | 26°15 | 23°35 | 9°52 | 19°44 | 17° 3 | 20°59 | 7° 7 | 29°37 | 12°32 | 11°29 | 12°44 | 8°43 | 8°57 | T 3 | | |
| F 4 | 14 49 30 | 14° 8'44 | 8♁ 7 | 25°17 | 11° 6 | 20°29 | 16°57 | 20°57 | 7°10 | 29°36 | 12°33 | 11°30 | 12°41 | 8°50 | 8°59 | F 4 | | |
| S 5 | 14 53 26 | 15° 7'12 | 19°59 | 27° 1 | 12°20 | 21°13 | 16°51 | 20°55 | 7°13 | 29°35 | 12°35 | 11°R30 | 12°37 | 8°56 | 9° 2 | S 5 | | |
| S 6 | 14 57 23 | 16° 5'37 | 1♁57 | 28°47 | 13°34 | 21°57 | 16°45 | 20°53 | 7°16 | 29°34 | 12°36 | 11°29 | 12°34 | 9° 3 | 9° 4 | S 6 | | |
| M 7 | 15 1 20 | 17° 3'59 | 14° 3 | 0♁34 | 14°48 | 22°41 | 16°39 | 20°51 | 7°18 | 29°33 | 12°37 | 11°27 | 12°31 | 9°10 | 9° 6 | M 7 | | |
| T 8 | 15 5 16 | 18° 2'20 | 26°24 | 2°23 | 16° 2 | 23°25 | 16°33 | 20°50 | 7°21 | 29°32 | 12°39 | 11°24 | 12°28 | 9°17 | 9° 8 | T 8 | | |
| W 9 | 15 9 13 | 19° 0'39 | 9♁ 0 | 4°14 | 17°17 | 24° 9 | 16°28 | 20°48 | 7°24 | 29°31 | 12°40 | 11°21 | 12°25 | 9°23 | 9°10 | W 9 | | |
| T 10 | 15 13 9 | 19°58'56 | 21°56 | 6° 7 | 18°31 | 24°52 | 16°22 | 20°47 | 7°27 | 29°30 | 12°42 | 11°18 | 12°22 | 9°30 | 9°12 | T 10 | | |
| F 11 | 15 17 6 | 20°57'11 | 5♁11 | 8° 1 | 19°45 | 25°36 | 16°17 | 20°46 | 7°29 | 29°29 | 12°43 | 11°15 | 12°18 | 9°37 | 9°14 | F 11 | | |
| S 12 | 15 21 2 | 21°55'24 | 18°45 | 9°57 | 20°59 | 26°20 | 16°12 | 20°45 | 7°32 | 29°28 | 12°44 | 11°13 | 12°15 | 9°43 | 9°16 | S 12 | | |
| S 13 | 15 24 59 | 22°53'35 | 2♁35 | 11°55 | 22°13 | 27° 4 | 16° 7 | 20°44 | 7°35 | 29°27 | 12°46 | 11°12 | 12°12 | 9°50 | 9°18 | S 13 | | |
| M14 | 15 28 55 | 23°51'45 | 16°39 | 13°55 | 23°27 | 27°47 | 16° 2 | 20°43 | 7°37 | 29°27 | 12°47 | 11°D11 | 12° 9 | 9°57 | 9°20 | M14 | | |
| T 15 | 15 32 52 | 24°49'54 | 0♁52 | 15°56 | 24°41 | 28°31 | 15°57 | 20°42 | 7°40 | 29°26 | 12°48 | 11°12 | 12° 6 | 10° 3 | 9°22 | T 15 | | |
| W16 | 15 36 49 | 25°48'01 | 15°11 | 17°59 | 25°55 | 29°15 | 15°52 | 20°41 | 7°43 | 29°25 | 12°50 | 11°13 | 12° 2 | 10°10 | 9°24 | W16 | | |
| T 17 | 15 40 45 | 26°46'06 | 29°32 | 20° 3 | 27° 9 | 29°58 | 15°48 | 20°41 | 7°45 | 29°24 | 12°51 | 11°14 | 11°59 | 10°17 | 9°25 | T 17 | | |
| F 18 | 15 44 42 | 27°44'10 | 13♁50 | 22° 9 | 28°23 | 0♁42 | 15°44 | 20°40 | 7°48 | 29°24 | 12°52 | 11°15 | 11°56 | 10°24 | 9°27 | F 18 | | |
| S 19 | 15 48 38 | 28°42'13 | 28° 4 | 24°16 | 29°37 | 1°25 | 15°40 | 20°40 | 7°50 | 29°23 | 12°54 | 11°R15 | 11°53 | 10°30 | 9°28 | S 19 | | |
| S 20 | 15 52 35 | 29°40'14 | 12♁11 | 26°24 | 0♁51 | 2° 8 | 15°36 | 20°39 | 7°52 | 29°22 | 12°55 | 11°15 | 11°50 | 10°37 | 9°30 | S 20 | | |
| M21 | 15 56 31 | 0♁38'14 | 26° 9 | 28°33 | 2° 4 | 2°52 | 15°32 | 20°39 | 7°55 | 29°22 | 12°56 | 11°14 | 11°47 | 10°44 | 9°31 | M21 | | |
| T 22 | 16 0 28 | 1°36'13 | 9♁57 | 0♁43 | 3°18 | 3°35 | 15°28 | 20°D39 | 7°57 | 29°21 | 12°58 | 11°13 | 11°43 | 10°50 | 9°33 | T 22 | | |
| W23 | 16 4 24 | 2°34'11 | 23°32 | 2°54 | 4°32 | 4°18 | 15°25 | 20°39 | 8° 0 | 29°20 | 12°59 | 11°12 | 11°40 | 10°57 | 9°34 | W23 | | |
| T 24 | 16 8 21 | 3°32'07 | 6♁54 | 5° 5 | 5°46 | 5° 1 | 15°21 | 20°39 | 8° 2 | 29°20 | 13° 0 | 11°11 | 11°37 | 11° 4 | 9°35 | T 24 | | |
| F 25 | 16 12 18 | 4°30'02 | 20° 2 | 7°16 | 7° 0 | 5°44 | 15°18 | 20°40 | 8° 4 | 29°19 | 13° 2 | 11°11 | 11°34 | 11°11 | 9°36 | F 25 | | |
| S 26 | 16 16 14 | 5°27'55 | 2♁56 | 9°27 | 8°14 | 6°27 | 15°15 | 20°40 | 8° 6 | 29°19 | 13° 3 | 11°10 | 11°31 | 11°17 | 9°37 | S 26 | | |
| S 27 | 16 20 11 | 6°25'48 | 15°35 | 11°38 | 9°28 | 7°10 | 15°13 | 20°40 | 8° 8 | 29°19 | 13° 4 | 11°D10 | 11°28 | 11°24 | 9°38 | S 27 | | |
| M28 | 16 24 7 | 7°23'38 | 28° 1 | 13°48 | 10°42 | 7°53 | 15°10 | 20°41 | 8°11 | 29°18 | 13° 6 | 11°10 | 11°24 | 11°31 | 9°39 | M28 | | |
| T 29 | 16 28 4 | 8°21'28 | 10♁14 | 15°57 | 11°56 | 8°36 | 15° 8 | 20°42 | 8°13 | 29°18 | 13° 7 | 11°11 | 11°21 | 11°37 | 9°40 | T 29 | | |
| W30 | 16 32 0 | 9°19'15 | 22°17 | 18° 4 | 13°10 | 9°19 | 15° 5 | 20°42 | 8°15 | 29°17 | 13° 8 | 11°11 | 11°18 | 11°44 | 9°41 | W30 | | |
| T 31 | 16 35 57 | 10♁17'01 | 4♁13 | 20♁11 | 14♁23 | 10♁ 2 | 15♁ 3 | 20♁43 | 8♁17 | 29♁17 | 13♁ 9 | 11♁11 | 11♁15 | 11♁51 | 9♁42 | T 31 | | |

Delta T = 20m05s

JUNE 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|-------|------|--------|-------|--------|-------|-------|-------|------|---|-----|
| F 1 | 16 39 53 | 11♁14'46 | 16♁ 5 | 22♁15 | 15♁37 | 10♁45 | 15°R 1 | 20♁44 | 8♁19 | 29°R17 | 13♁11 | 11°R11 | 11♁12 | 11♁57 | 9♁43 | F 1 | | |
| S 2 | 16 43 50 | 12°12'29 | 27°57 | 24°17 | 16°51 | 11°27 | 15♁ 0 | 20°45 | 8°21 | 29°R17 | 13°12 | 11°R11 | 11° 8 | 12° 4 | 9°44 | S 2 | | |
| S 3 | 16 47 47 | 13°10'11 | 9♁54 | 26°18 | 18° 5 | 12°10 | 14°58 | 20°46 | 8°23 | 29°16 | 13°13 | 11°D11 | 11° 5 | 12°11 | 9°44 | S 3 | | |
| M 4 | 16 51 43 | 14° 7'51 | 22° 0 | 28°16 | 19°19 | 12°52 | 14°57 | 20°48 | 8°24 | 29°16 | 13°14 | 11°11 | 11° 2 | 12°18 | 9°45 | M 4 | | |
| T 5 | 16 55 40 | 15° 5'29 | 4♁19 | 0♁11 | 20°32 | 13°35 | 14°56 | 20°49 | 8°26 | 29°16 | 13°15 | 11°11 | 10°59 | 12°24 | 9°45 | T 5 | | |
| W 6 | 16 59 36 | 16° 3'06 | 16°56 | 2° 4 | 21°46 | 14°17 | 14°55 | 20°50 | 8°28 | 29°16 | 13°17 | 11°12 | 10°56 | 12°31 | 9°46 | W 6 | | |
| T 7 | 17 3 33 | 17° 0'42 | 29°55 | 3°54 | 23° 0 | 15° 0 | 14°54 | 20°52 | 8°30 | 29°16 | 13°18 | 11°12 | 10°53 | 12°38 | 9°46 | T 7 | | |
| F 8 | 17 7 29 | 17°58'16 | 13♁16 | 5°42 | 24°14 | 15°42 | 14°53 | 20°54 | 8°31 | 29°16 | 13°19 | 11°13 | 10°49 | 12°44 | 9°46 | F 8 | | |
| S 9 | 17 11 26 | 18°55'49 | 27° 1 | 7°27 | 25°28 | 16°25 | 14°53 | 20°55 | 8°33 | 29°D16 | 13°20 | 11°13 | 10°46 | 12°51 | 9°47 | S 9 | | |
| S 10 | 17 15 22 | 19°53'21 | 11♁ 8 | 9° 9 | 26°41 | 17° 7 | 14°53 | 20°57 | 8°35 | 29°16 | 13°21 | 11°R13 | 10°43 | 12°58 | 9°47 | S 10 | | |
| M11 | 17 19 19 | 20°50'52 | 25°34 | 10°48 | 27°55 | 17°49 | 14°D53 | 20°59 | 8°36 | 29°16 | 13°22 | 11°13 | 10°40 | 13° 5 | 9°47 | M11 | | |
| T 12 | 17 23 16 | 21°48'22 | 10♁14 | 12°25 | 29° 9 | 18°31 | 14°53 | 21° 1 | 8°38 | 29°16 | 13°24 | 11°12 | 10°37 | 13°11 | 9°47 | T 12 | | |
| W13 | 17 27 12 | 22°45'51 | 25° 0 | 13°58 | 0♁22 | 19°13 | 14°53 | 21° 4 | 8°39 | 29°16 | 13°25 | 11°11 | 10°34 | 13°18 | 9°R47 | W13 | | |
| T 14 | 17 31 9 | 23°43'19 | 9♁46 | 15°29 | 1°36 | 19°55 | 14°53 | 21° 6 | 8°41 | 29°16 | 13°26 | 11°10 | 10°30 | 13°25 | 9°47 | T 14 | | |
| F 15 | 17 35 5 | 24°40'46 | 24°24 | 16°57 | 2°50 | 20°38 | 14°54 | 21° 8 | 8°42 | 29°16 | 13°27 | 11° 8 | 10°27 | 13°31 | 9°47 | F 15 | | |
| S 16 | 17 39 2 | 25°38'13 | 8♁50 | 18°21 | 4° 3 | 21°19 | 14°55 | 21°11 | 8°43 | 29°16 | 13°28 | 11° 7 | 10°24 | 13°38 | 9°47 | S 16 | | |
| S 17 | 17 42 58 | 26°35'39 | 23° 0 | 19°43 | 5°17 | 22° 1 | 14°56 | 21°13 | 8°45 | 29°17 | 13°29 | 11°D 7 | 10°21 | 13°45 | 9°47 | S 17 | | |
| M18 | 17 46 55 | 27°33'04 | 6♁52 | 21° 1 | 6°31 | 22°43 | 14°57 | 21°16 | 8°46 | 29°17 | 13°30 | 11° 7 | 10°18 | 13°51 | 9°46 | M18 | | |
| T 19 | 17 50 52 | 28°30'29 | 20°26 | 22°17 | 7°45 | 23°25 | 14°58 | 21°19 | 8°47 | 29°17 | 13°31 | 11° 8 | 10°14 | 13°58 | 9°46 | T 19 | | |
| W20 | 17 54 48 | 29°27'53 | 3♁42 | 23°29 | 8°58 | 24° 7 | 15° 0 | 21°22 | 8°48 | 29°18 | 13°32 | 11° 9 | 10°11 | 14° 5 | 9°45 | W20 | | |
| T 21 | 17 58 45 | 0♁25'17 | 16°43 | 24°38 | 10°12 | 24°49 | 15° 2 | 21°24 | 8°49 | 29°18 | 13°33 | 11°10 | 10° 8 | 14°12 | 9°45 | T 21 | | |
| F 22 | 18 2 41 | 1°22'41 | 29°29 | 25°44 | 11°26 | 25°30 | 15° 4 | 21°27 | 8°50 | 29°18 | 13°34 | 11°12 | 10° 5 | 14°18 | 9°44 | F 22 | | |
| S 23 | 18 6 38 | 2°20'04 | 12♁ 2 | 26°47 | 12°39 | 26°12 | 15° 6 | 21°31 | 8°51 | 29°19 | 13°35 | 11°R12 | 10° 2 | 14°25 | 9°44 | S 23 | | |
| S 24 | 18 10 34 | 3°17'26 | 24°25 | 27°46 | 13°53 | 26°54 | 15° 8 | 21°34 | 8°52 | 29°19 | 13°36 | 11°11 | 9°59 | 14°32 | 9°43 | S 24 | | |
| M25 | 18 14 31 | 4°14'48 | 6♁37 | 28°41 | 15° 6 | 27°35 | 15°10 | 21°37 | 8°53 | 29°20 | 13°37 | 11°10 | 9°55 | 14°38 | 9°43 | M25 | | |
| T 26 | 18 18 27 | 5°12'09 | 18°42 | 29°33 | 16°20 | 28°17 | 15°13 | 21°41 | 8°54 | 29°20 | 13°38 | 11° 7 | 9°52 | 14°45 | 9°42 | T 26 | | |
| W27 | 18 22 24 | 6° 9'29 | 0♁40 | 0♁22 | 17°34 | 28°58 | 15°16 | 21°44 | 8°55 | 29°21 | 13°39 | 11° 3 | 9°49 | 14°52 | 9°41 | W27 | | |
| T 28 | 18 26 21 | 7° 6'49 | 12°33 | 1° 6 | 18°47 | 29°40 | 15°19 | 21°48 | 8°56 | 29°21 | 13°40 | 10°59 | 9°46 | 14°59 | 9°40 | T 28 | | |
| F 29 | 18 30 17 | 8° 4'08 | 24°24 | 1°47 | 20° 1 | 0♁21 | 15°22 | 21°51 | 8°56 | 29°22 | 13°41 | 10°54 | 9°43 | 15° 5 | 9°39 | F 29 | | |
| S 30 | 18 34 14 | 9♁ 1'26 | 6♁16 | 2♁24 | 21♁15 | 1♁ 2 | 15♁25 | 21♁55 | 8♁57 | 29♁23 | 13♁42 | 10♁50 | 9♁40 | 15♁12 | 9♁38 | S 30 | | |

Delta T = 20m06s

ASTRODIENST EPHEMERIS for the year 2598
geocentric

JULY 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|------|------|
| S 1 | 18 38 10 | 9♄58'44 | 18♎12 | 2♃56 | 22♄28 | 1♄43 | 15♄28 | 21♎59 | 8♃58 | 29♎23 | 13♄42 | 10♃47 | 9♎36 | 15♎19 | 9♃37 | S 1 |
| M 2 | 18 42 7 | 10°56'00 | 0♄16 | 3°24 | 23°42 | 2°25 | 15°32 | 22° 3 | 8°58 | 29°24 | 13°43 | 10♎45 | 9°33 | 15°25 | 9♁36 | M 2 |
| T 3 | 18 46 3 | 11°53'17 | 12°33 | 3°48 | 24°55 | 3° 6 | 15°36 | 22° 7 | 8°59 | 29°25 | 13°44 | 10♎45 | 9°30 | 15°32 | 9°35 | T 3 |
| W 4 | 18 50 0 | 12°50'32 | 25° 6 | 4° 8 | 26° 9 | 3°47 | 15°40 | 22°11 | 8°59 | 29°25 | 13°45 | 10°45 | 9°27 | 15°39 | 9°33 | W 4 |
| T 5 | 18 53 56 | 13°47'47 | 8♎ 1 | 4°23 | 27°22 | 4°28 | 15°44 | 22°15 | 9° 0 | 29°26 | 13°46 | 10°47 | 9°24 | 15°46 | 9°32 | T 5 |
| F 6 | 18 57 53 | 14°45'01 | 21°20 | 4°34 | 28°36 | 5° 9 | 15°48 | 22°19 | 9° 0 | 29°27 | 13°46 | 10°48 | 9°20 | 15°52 | 9°31 | F 6 |
| S 7 | 19 1 50 | 15°42'15 | 5♁ 6 | 4°40 | 29°49 | 5°50 | 15°52 | 22°24 | 9° 0 | 29°28 | 13°47 | 10°49 | 9°17 | 15°59 | 9°29 | S 7 |
| S 8 | 19 5 46 | 16°39'29 | 19°19 | 4°R41 | 1♃ 3 | 6°31 | 15°57 | 22°28 | 9° 1 | 29°29 | 13°48 | 10°49 | 9°14 | 16° 6 | 9°28 | S 8 |
| M 9 | 19 9 43 | 17°36'42 | 3♄57 | 4°38 | 2°16 | 7°12 | 16° 1 | 22°32 | 9° 1 | 29°30 | 13°49 | 10°47 | 9°11 | 16°12 | 9°27 | M 9 |
| T 10 | 19 13 39 | 18°33'55 | 18°53 | 4°30 | 3°30 | 7°53 | 16° 6 | 22°37 | 9° 1 | 29°31 | 13°49 | 10°44 | 9° 8 | 16°19 | 9°25 | T 10 |
| W11 | 19 17 36 | 19°31'08 | 4♁ 0 | 4°18 | 4°43 | 8°33 | 16°11 | 22°42 | 9° 1 | 29°32 | 13°50 | 10°39 | 9° 5 | 16°26 | 9°23 | W11 |
| T 12 | 19 21 32 | 20°28'21 | 19° 9 | 4° 1 | 5°57 | 9°14 | 16°16 | 22°46 | 9° 1 | 29°33 | 13°51 | 10°34 | 9° 1 | 16°33 | 9°22 | T 12 |
| F 13 | 19 25 29 | 21°25'33 | 4♁ 8 | 3°40 | 7°10 | 9°55 | 16°22 | 22°51 | 9° 2 | 29°34 | 13°51 | 10°28 | 8°58 | 16°39 | 9°20 | F 13 |
| S 14 | 19 29 25 | 22°22'46 | 18°51 | 3°16 | 8°24 | 10°35 | 16°27 | 22°56 | 9°R 2 | 29°35 | 13°52 | 10°23 | 8°55 | 16°46 | 9°18 | S 14 |
| S 15 | 19 33 22 | 23°19'59 | 3♃12 | 2°48 | 9°37 | 11°16 | 16°33 | 23° 1 | 9° 1 | 29°36 | 13°52 | 10°20 | 8°52 | 16°53 | 9°16 | S 15 |
| M16 | 19 37 19 | 24°17'13 | 17° 7 | 2°17 | 10°51 | 11°57 | 16°39 | 23° 6 | 9° 1 | 29°37 | 13°53 | 10°18 | 8°49 | 16°59 | 9°15 | M16 |
| T 17 | 19 41 15 | 25°14'26 | 0♄38 | 1°43 | 12° 4 | 12°37 | 16°44 | 23°11 | 9° 1 | 29°38 | 13°54 | 10°D18 | 8°46 | 17° 6 | 9°13 | T 17 |
| W18 | 19 45 12 | 26°11'40 | 13°46 | 1° 7 | 13°18 | 13°18 | 16°50 | 23°16 | 9° 1 | 29°39 | 13°54 | 10°19 | 8°42 | 17°13 | 9°11 | W18 |
| T 19 | 19 49 8 | 27° 8'55 | 26°34 | 0°30 | 14°31 | 13°58 | 16°57 | 23°21 | 9° 1 | 29°41 | 13°55 | 10°20 | 8°39 | 17°20 | 9° 9 | T 19 |
| F 20 | 19 53 5 | 28° 6'10 | 9♎ 6 | 29♄51 | 15°45 | 14°38 | 17° 3 | 23°27 | 9° 1 | 29°42 | 13°55 | 10°R21 | 8°36 | 17°26 | 9° 7 | F 20 |
| S 21 | 19 57 1 | 29° 3'25 | 21°24 | 29°13 | 16°58 | 15°19 | 17° 9 | 23°32 | 9° 0 | 29°43 | 13°56 | 10°20 | 8°33 | 17°33 | 9° 5 | S 21 |
| S 22 | 20 0 58 | 0♃ 0'41 | 3♄33 | 28°35 | 18°11 | 15°59 | 17°16 | 23°37 | 9° 0 | 29°44 | 13°56 | 10°18 | 8°30 | 17°40 | 9° 2 | S 22 |
| M23 | 20 4 55 | 0°57'57 | 15°35 | 27°57 | 19°25 | 16°39 | 17°23 | 23°43 | 8°59 | 29°46 | 13°57 | 10°13 | 8°26 | 17°46 | 9° 0 | M23 |
| T 24 | 20 8 51 | 1°55'13 | 27°31 | 27°22 | 20°38 | 17°20 | 17°30 | 23°48 | 8°59 | 29°47 | 13°57 | 10° 6 | 8°23 | 17°53 | 8°58 | T 24 |
| W25 | 20 12 48 | 2°52'30 | 9♃25 | 26°49 | 21°52 | 18° 0 | 17°37 | 23°54 | 8°58 | 29°48 | 13°57 | 9°57 | 8°20 | 18° 0 | 8°56 | W25 |
| T 26 | 20 16 44 | 3°49'47 | 21°16 | 26°19 | 23° 5 | 18°40 | 17°44 | 24° 0 | 8°58 | 29°50 | 13°58 | 9°47 | 8°17 | 18° 7 | 8°53 | T 26 |
| F 27 | 20 20 41 | 4°47'04 | 3♎ 7 | 25°52 | 24°18 | 19°20 | 17°51 | 24° 5 | 8°57 | 29°51 | 13°58 | 9°36 | 8°14 | 18°13 | 8°51 | F 27 |
| S 28 | 20 24 37 | 5°44'21 | 15° 1 | 25°29 | 25°32 | 20° 0 | 17°58 | 24°11 | 8°57 | 29°53 | 13°58 | 9°27 | 8°11 | 18°20 | 8°49 | S 28 |
| S 29 | 20 28 34 | 6°41'39 | 26°58 | 25°11 | 26°45 | 20°40 | 18° 6 | 24°17 | 8°56 | 29°54 | 13°59 | 9°18 | 8° 7 | 18°27 | 8°46 | S 29 |
| M30 | 20 32 30 | 7°38'56 | 9♁ 3 | 24°57 | 27°58 | 21°20 | 18°13 | 24°23 | 8°55 | 29°56 | 13°59 | 9°12 | 8° 4 | 18°33 | 8°44 | M30 |
| T 31 | 20 36 27 | 8♃36'14 | 21♄19 | 24♄49 | 29♃12 | 22♄ 0 | 18♄21 | 24♎29 | 8♃54 | 29♎57 | 13♄59 | 9♎ 9 | 8♎ 1 | 18♃40 | 8♁41 | T 31 |

Delta T = 20m06s

AUGUST 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|--------|-------|------|-------|-------|------|
| W 1 | 20 40 23 | 9♃33'33 | 3♎49 | 24°D46 | 0♎25 | 22♄40 | 18♄29 | 24♎35 | 8°R53 | 29♎59 | 14♄ 0 | 9°R 7 | 7♎58 | 18♃47 | 8°R39 | W 1 |
| T 2 | 20 44 20 | 10°30'52 | 16°39 | 24♄49 | 1°38 | 23°20 | 18°37 | 24°41 | 8♃53 | 0♄ 0 | 14° 0 | 9°D 7 | 7°55 | 18°54 | 8♁36 | T 2 |
| F 3 | 20 48 17 | 11°28'11 | 29°52 | 24°58 | 2°51 | 23°59 | 18°45 | 24°47 | 8°52 | 0° 2 | 14° 0 | 9°R 8 | 7°52 | 19° 0 | 8°34 | F 3 |
| S 4 | 20 52 13 | 12°25'30 | 13♁32 | 25°12 | 4° 5 | 24°39 | 18°53 | 24°53 | 8°51 | 0° 4 | 14° 0 | 9°R 8 | 7°48 | 19° 7 | 8°31 | S 4 |
| S 5 | 20 56 10 | 13°22'50 | 27°40 | 25°33 | 5°18 | 25°19 | 19° 2 | 25° 0 | 8°50 | 0° 5 | 14° 0 | 9° 7 | 7°45 | 19°14 | 8°28 | S 5 |
| M 6 | 21 0 6 | 14°20'10 | 12♄15 | 25°59 | 6°31 | 25°58 | 19°10 | 25° 6 | 8°49 | 0° 7 | 14° 1 | 9° 3 | 7°42 | 19°20 | 8°26 | M 6 |
| T 7 | 21 4 3 | 15°17'31 | 27°14 | 26°32 | 7°44 | 26°38 | 19°19 | 25°12 | 8°47 | 0° 8 | 14° 1 | 8°57 | 7°39 | 19°27 | 8°23 | T 7 |
| W 8 | 21 7 59 | 16°14'52 | 12♁28 | 27°11 | 8°57 | 27°18 | 19°27 | 25°19 | 8°46 | 0°10 | 14° 1 | 8°49 | 7°36 | 19°34 | 8°20 | W 8 |
| T 9 | 21 11 56 | 17°12'14 | 27°48 | 27°55 | 10°10 | 27°57 | 19°36 | 25°25 | 8°45 | 0°12 | 14° 1 | 8°40 | 7°32 | 19°41 | 8°17 | T 9 |
| F 10 | 21 15 53 | 18° 9'37 | 13♁ 2 | 28°46 | 11°24 | 28°37 | 19°45 | 25°32 | 8°44 | 0°14 | 14° 1 | 8°30 | 7°29 | 19°47 | 8°15 | F 10 |
| S 11 | 21 19 49 | 19° 7'00 | 27°59 | 29°42 | 12°37 | 29°16 | 19°54 | 25°38 | 8°43 | 0°15 | 14° 1 | 8°21 | 7°26 | 19°54 | 8°12 | S 11 |
| S 12 | 21 23 46 | 20° 4'25 | 12♃32 | 0♃44 | 13°50 | 29°56 | 20° 3 | 25°45 | 8°41 | 0°17 | 14° 1 | 8°15 | 7°23 | 20° 1 | 8° 9 | S 12 |
| M13 | 21 27 42 | 21° 1'51 | 26°36 | 1°52 | 15° 3 | 0♃35 | 20°12 | 25°51 | 8°40 | 0°19 | 14°R 1 | 8°10 | 7°20 | 20° 7 | 8° 6 | M13 |
| T 14 | 21 31 39 | 21°59'11 | 10♄11 | 3° 5 | 16°16 | 1°14 | 20°21 | 25°58 | 8°39 | 0°21 | 14° 1 | 8° 8 | 7°17 | 20°14 | 8° 3 | T 14 |
| W15 | 21 35 35 | 22°56'46 | 23°19 | 4°24 | 17°29 | 1°54 | 20°31 | 26° 5 | 8°37 | 0°23 | 14° 1 | 8°D 8 | 7°13 | 20°21 | 8° 0 | W15 |
| T 16 | 21 39 32 | 23°54'16 | 6♎ 4 | 5°48 | 18°42 | 2°33 | 20°40 | 26°11 | 8°36 | 0°24 | 14° 1 | 8°R 8 | 7°10 | 20°28 | 7°57 | T 16 |
| F 17 | 21 43 28 | 24°51'47 | 18°29 | 7°16 | 19°55 | 3°12 | 20°50 | 26°18 | 8°34 | 0°26 | 14° 1 | 8° 7 | 7° 7 | 20°34 | 7°54 | F 17 |
| S 18 | 21 47 25 | 25°49'19 | 0♄41 | 8°49 | 21° 8 | 3°51 | 21° 0 | 26°25 | 8°33 | 0°28 | 14° 1 | 8° 5 | 7° 4 | 20°41 | 7°51 | S 18 |
| S 19 | 21 51 22 | 26°46'53 | 12°42 | 10°27 | 22°21 | 4°30 | 21° 9 | 26°32 | 8°31 | 0°30 | 14° 1 | 8° 1 | 7° 1 | 20°48 | 7°48 | S 19 |
| M20 | 21 55 18 | 27°44'27 | 24°37 | 12° 8 | 23°34 | 5°10 | 21°19 | 26°39 | 8°29 | 0°32 | 14° 1 | 7°54 | 6°58 | 20°54 | 7°45 | M20 |
| T 21 | 21 59 15 | 28°42'03 | 6♃29 | 13°53 | 24°47 | 5°49 | 21°29 | 26°46 | 8°28 | 0°34 | 14° 1 | 7°44 | 6°54 | 21° 1 | 7°42 | T 21 |
| W22 | 22 3 11 | 29°39'40 | 18°20 | 15°42 | 26° 0 | 6°28 | 21°39 | 26°53 | 8°26 | 0°36 | 14° 0 | 7°32 | 6°51 | 21° 8 | 7°39 | W22 |
| T 23 | 22 7 8 | 0♎37'19 | 0♎12 | 17°33 | 27°13 | 7° 7 | 21°49 | 27° 0 | 8°24 | 0°38 | 14° 0 | 7°18 | 6°48 | 21°15 | 7°36 | T 23 |
| F 24 | 22 11 4 | 1°34'58 | 12° 6 | 19°27 | 28°26 | 7°46 | 21°59 | 27° 7 | 8°23 | 0°40 | 14° 0 | 7° 4 | 6°45 | 21°21 | 7°33 | F 24 |
| S 25 | 22 15 1 | 2°32'39 | 24° 4 | 21°23 | 29°39 | 8°25 | 22°10 | 27°14 | 8°21 | 0°42 | 14° 0 | 6°51 | 6°42 | 21°28 | 7°30 | S 25 |
| S 26 | 22 18 57 | 3°30'20 | 6♁ 8 | 23°20 | 0♄52 | 9° 3 | 22°20 | 27°21 | 8°19 | 0°44 | 13°59 | 6°40 | 6°38 | 21°35 | 7°27 | S 26 |
| M27 | 22 22 54 | 4°28'03 | 18°19 | 25°19 | 2° 4 | 9°42 | 22°31 | 27°28 | 8°17 | 0°46 | 13°59 | 6°31 | 6°35 | 21°41 | 7°24 | M27 |
| T 28 | 22 26 50 | 5°25'47 | 0♎39 | 27°19 | 3°17 | 10°21 | 22°41 | 27°35 | 8°15 | 0°48 | 13°59 | 6°25 | 6°32 | 21°48 | 7°21 | T 28 |
| W29 | 22 30 47 | 6°23'32 | 13°12 | 29°20 | 4°30 | 11° 0 | 22°52 | 27°42 | 8°13 | 0°50 | 13°59 | 6°22 | 6°29 | 21°55 | 7°18 | W29 |
| T 30 | 22 34 44 | 7°21'18 | 26° 1 | 1♎21 | 5°43 | 11°39 | 23° 3 | 27°50 | 8°11 | 0°52 | 13°58 | 6°21 | 6°26 | 22° 2 | 7°15 | T 30 |
| F 31 | 22 38 40 | 8♎19'05 | 9♁ 9 | 3♎22 | 6♄55 | 12♃17 | 23♄13 | 27♎57 | 8♃ 9 | 0♄54 | 13♄58 | 6♎20 | 6♎23 | 22♃ 8 | 7♁12 | F 31 |

Delta T = 20m06s

ASTRODIENST EPHEMERIS for the year 2598
geocentric

SEPTEMBER 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|--------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| S 1 | 22 42 37 | 9♎16'54 | 22♌41 | 5♎22 | 8♏ 8 | 12♏56 | 23♏24 | 28♎ 4 | 8°R 7 | 0♏56 | 13°R57 | 6°R20 | 6♎19 | 22♏15 | 7°R 9 | S 1 | | | | | | | | |
| S 2 | 22 46 33 | 10°14'43 | 6♌39 | 7°23 | 9°21 | 13°34 | 23°35 | 28°11 | 8°Y 5 | 0°58 | 13♌57 | 6♎18 | 6°16 | 22°22 | 7°X 6 | S 2 | | | | | | | | |
| M 3 | 22 50 30 | 11°12'34 | 21° 3 | 9°22 | 10°34 | 14°13 | 23°46 | 28°19 | 8° 3 | 1° 1 | 13°57 | 6°15 | 6°13 | 22°28 | 7° 3 | M 3 | | | | | | | | |
| T 4 | 22 54 26 | 12°10'26 | 5♏51 | 11°21 | 11°46 | 14°52 | 23°57 | 28°26 | 8° 1 | 1° 3 | 13°56 | 6° 8 | 6°10 | 22°35 | 7° 0 | T 4 | | | | | | | | |
| W 5 | 22 58 23 | 13° 8'19 | 20°56 | 13°19 | 12°59 | 15°30 | 24° 8 | 28°33 | 7°59 | 1° 5 | 13°56 | 5°59 | 6° 7 | 22°42 | 6°57 | W 5 | | | | | | | | |
| T 6 | 23 2 19 | 14° 6'13 | 6♌11 | 15°17 | 14°11 | 16° 8 | 24°20 | 28°41 | 7°57 | 1° 7 | 13°55 | 5°49 | 6° 4 | 22°49 | 6°54 | T 6 | | | | | | | | |
| F 7 | 23 6 16 | 15° 4'09 | 21°24 | 17°13 | 15°24 | 16°47 | 24°31 | 28°48 | 7°55 | 1° 9 | 13°55 | 5°38 | 6° 0 | 22°55 | 6°51 | F 7 | | | | | | | | |
| S 8 | 23 10 13 | 16° 2'06 | 6♎24 | 19° 8 | 16°36 | 17°25 | 24°42 | 28°56 | 7°53 | 1°11 | 13°54 | 5°28 | 5°57 | 23° 2 | 6°48 | S 8 | | | | | | | | |
| S 9 | 23 14 9 | 17° 0'05 | 21° 3 | 21° 1 | 17°49 | 18° 4 | 24°54 | 29° 3 | 7°51 | 1°13 | 13°54 | 5°20 | 5°54 | 23° 9 | 6°45 | S 9 | | | | | | | | |
| M10 | 23 18 6 | 17°58'06 | 5♌14 | 22°54 | 19° 1 | 18°42 | 25° 5 | 29°10 | 7°48 | 1°16 | 13°53 | 5°15 | 5°51 | 23°16 | 6°42 | M10 | | | | | | | | |
| T 11 | 23 22 2 | 18°56'09 | 18°55 | 24°45 | 20°14 | 19°20 | 25°17 | 29°18 | 7°46 | 1°18 | 13°53 | 5°12 | 5°48 | 23°22 | 6°39 | T 11 | | | | | | | | |
| W12 | 23 25 59 | 19°54'13 | 2♎ 8 | 26°36 | 21°26 | 19°58 | 25°28 | 29°25 | 7°44 | 1°20 | 13°52 | 5°D11 | 5°44 | 23°29 | 6°36 | W12 | | | | | | | | |
| T 13 | 23 29 55 | 20°52'20 | 14°56 | 28°25 | 22°39 | 20°37 | 25°40 | 29°33 | 7°42 | 1°22 | 13°51 | 5°R11 | 5°41 | 23°36 | 6°33 | T 13 | | | | | | | | |
| F 14 | 23 33 52 | 21°50'28 | 27°22 | 0♏12 | 23°51 | 21°15 | 25°52 | 29°40 | 7°39 | 1°24 | 13°51 | 5°11 | 5°38 | 23°42 | 6°30 | F 14 | | | | | | | | |
| S 15 | 23 37 48 | 22°48'39 | 9♌32 | 1°59 | 25° 3 | 21°53 | 26° 3 | 29°48 | 7°37 | 1°26 | 13°50 | 5°10 | 5°35 | 23°49 | 6°27 | S 15 | | | | | | | | |
| S 16 | 23 41 45 | 23°46'51 | 21°32 | 3°44 | 26°16 | 22°31 | 26°15 | 29°55 | 7°35 | 1°29 | 13°50 | 5° 7 | 5°32 | 23°56 | 6°24 | S 16 | | | | | | | | |
| M17 | 23 45 42 | 24°45'05 | 3♏25 | 5°29 | 27°28 | 23° 9 | 26°27 | 0♏ 3 | 7°32 | 1°31 | 13°49 | 5° 1 | 5°29 | 24° 3 | 6°21 | M17 | | | | | | | | |
| T 18 | 23 49 38 | 25°43'22 | 15°15 | 7°12 | 28°40 | 23°47 | 26°39 | 0°10 | 7°30 | 1°33 | 13°48 | 4°52 | 5°25 | 24° 9 | 6°19 | T 18 | | | | | | | | |
| W19 | 23 53 35 | 26°41'40 | 27° 7 | 8°53 | 29°52 | 24°25 | 26°51 | 0°18 | 7°28 | 1°35 | 13°48 | 4°41 | 5°22 | 24°16 | 6°16 | W19 | | | | | | | | |
| T 20 | 23 57 31 | 27°40'00 | 9♎ 2 | 10°34 | 1♎ 5 | 25° 3 | 27° 3 | 0°25 | 7°25 | 1°38 | 13°47 | 4°29 | 5°19 | 24°23 | 6°13 | T 20 | | | | | | | | |
| F 21 | 0 1 28 | 28°38'21 | 21° 2 | 12°14 | 2°17 | 25°41 | 27°15 | 0°33 | 7°23 | 1°40 | 13°46 | 4°17 | 5°16 | 24°29 | 6°10 | F 21 | | | | | | | | |
| S 22 | 0 5 24 | 29°36'45 | 3♏ 9 | 13°52 | 3°29 | 26°19 | 27°27 | 0°40 | 7°21 | 1°42 | 13°45 | 4° 5 | 5°13 | 24°36 | 6° 7 | S 22 | | | | | | | | |
| S 23 | 0 9 21 | 0♏35'10 | 15°23 | 15°30 | 4°41 | 26°56 | 27°40 | 0°48 | 7°18 | 1°44 | 13°45 | 3°55 | 5° 9 | 24°43 | 6° 5 | S 23 | | | | | | | | |
| M24 | 0 13 17 | 1°33'38 | 27°46 | 17° 6 | 5°53 | 27°34 | 27°52 | 0°56 | 7°16 | 1°46 | 13°44 | 3°47 | 5° 6 | 24°50 | 6° 2 | M24 | | | | | | | | |
| T 25 | 0 17 14 | 2°32'06 | 10♎18 | 18°41 | 7° 5 | 28°12 | 28° 4 | 1° 3 | 7°13 | 1°49 | 13°43 | 3°42 | 5° 3 | 24°56 | 5°59 | T 25 | | | | | | | | |
| W26 | 0 21 11 | 3°30'37 | 23° 2 | 20°15 | 8°17 | 28°50 | 28°16 | 1°11 | 7°11 | 1°51 | 13°42 | 3°39 | 5° 0 | 25° 3 | 5°57 | W26 | | | | | | | | |
| T 27 | 0 25 7 | 4°29'09 | 5♌59 | 21°49 | 9°29 | 29°27 | 28°29 | 1°18 | 7° 9 | 1°53 | 13°41 | 3°D39 | 4°57 | 25°10 | 5°54 | T 27 | | | | | | | | |
| F 28 | 0 29 4 | 5°27'43 | 19°12 | 23°21 | 10°41 | 0♎ 5 | 28°41 | 1°26 | 7° 6 | 1°55 | 13°40 | 3°40 | 4°54 | 25°16 | 5°52 | F 28 | | | | | | | | |
| S 29 | 0 33 0 | 6°26'19 | 2♌42 | 24°52 | 11°53 | 0°43 | 28°54 | 1°33 | 7° 4 | 1°58 | 13°40 | 3°R40 | 4°50 | 25°23 | 5°49 | S 29 | | | | | | | | |
| S 30 | 0 36 57 | 7♏24'56 | 16♌33 | 26♏22 | 13♎ 5 | 1♎20 | 29♏ 6 | 1♏41 | 7°Y 1 | 2° 0 | 13♌39 | 3♎40 | 4♎47 | 25♏30 | 5°X47 | S 30 | | | | | | | | |

Delta T = 20m07s

OCTOBER 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|------|--------|-------|------|-------|-------|------|---|---|---|---|---|---|---|-----|
| M 1 | 0 40 53 | 8♏23'35 | 0♏44 | 27♏51 | 14♎17 | 1♎58 | 29♏19 | 1♏48 | 6°R59 | 2♏ 2 | 13°R38 | 3°R38 | 4♎44 | 25♏37 | 5°R44 | M 1 | | | | | | | | |
| T 2 | 0 44 50 | 9°22'16 | 15°14 | 29°19 | 15°28 | 2°35 | 29°31 | 1°56 | 6°Y57 | 2° 4 | 13♌37 | 3♎33 | 4°41 | 25°43 | 5°X42 | T 2 | | | | | | | | |
| W 3 | 0 48 46 | 10°20'58 | 29°59 | 0♎46 | 16°40 | 3°12 | 29°44 | 2° 3 | 6°54 | 2° 6 | 13°36 | 3°27 | 4°38 | 25°50 | 5°40 | W 3 | | | | | | | | |
| T 4 | 0 52 43 | 11°19'41 | 14♌55 | 2°11 | 17°52 | 3°50 | 29°56 | 2°11 | 6°52 | 2° 9 | 13°35 | 3°20 | 4°35 | 25°57 | 5°37 | T 4 | | | | | | | | |
| F 5 | 0 56 40 | 12°18'27 | 29°50 | 3°36 | 19° 3 | 4°27 | 0♎ 9 | 2°18 | 6°49 | 2°11 | 13°34 | 3°12 | 4°31 | 26° 4 | 5°35 | F 5 | | | | | | | | |
| S 6 | 1 0 36 | 13°17'14 | 14♎38 | 5° 0 | 20°15 | 5° 4 | 0°22 | 2°26 | 6°47 | 2°13 | 13°33 | 3° 4 | 4°28 | 26°10 | 5°33 | S 6 | | | | | | | | |
| S 7 | 1 4 33 | 14°16'03 | 29° 9 | 6°22 | 21°27 | 5°42 | 0°34 | 2°33 | 6°45 | 2°15 | 13°32 | 2°58 | 4°25 | 26°17 | 5°31 | S 7 | | | | | | | | |
| M 8 | 1 8 29 | 15°14'55 | 13♌18 | 7°44 | 22°38 | 6°19 | 0°47 | 2°40 | 6°42 | 2°17 | 13°31 | 2°55 | 4°22 | 26°24 | 5°29 | M 8 | | | | | | | | |
| T 9 | 1 12 26 | 16°13'48 | 27° 1 | 9° 4 | 23°49 | 6°56 | 1° 0 | 2°48 | 6°40 | 2°20 | 13°30 | 2°D53 | 4°19 | 26°30 | 5°27 | T 9 | | | | | | | | |
| W10 | 1 16 22 | 17°12'44 | 10♎17 | 10°23 | 25° 1 | 7°33 | 1°13 | 2°55 | 6°38 | 2°22 | 13°29 | 2°53 | 4°15 | 26°37 | 5°25 | W10 | | | | | | | | |
| T 11 | 1 20 19 | 18°11'42 | 23° 8 | 11°40 | 26°12 | 8°10 | 1°25 | 3° 3 | 6°35 | 2°24 | 13°28 | 2°54 | 4°12 | 26°44 | 5°23 | T 11 | | | | | | | | |
| F 12 | 1 24 15 | 19°10'43 | 5♌39 | 12°57 | 27°24 | 8°48 | 1°38 | 3°10 | 6°33 | 2°26 | 13°27 | 2°56 | 4° 9 | 26°51 | 5°21 | F 12 | | | | | | | | |
| S 13 | 1 28 12 | 20° 9'45 | 17°52 | 14°11 | 28°35 | 9°25 | 1°51 | 3°17 | 6°31 | 2°28 | 13°26 | 2°R56 | 4° 6 | 26°57 | 5°19 | S 13 | | | | | | | | |
| S 14 | 1 32 9 | 21° 8'50 | 29°53 | 15°25 | 29°46 | 10° 2 | 2° 4 | 3°25 | 6°28 | 2°30 | 13°25 | 2°56 | 4° 3 | 27° 4 | 5°17 | S 14 | | | | | | | | |
| M15 | 1 36 5 | 22° 7'57 | 11♏47 | 16°36 | 0♏57 | 10°39 | 2°17 | 3°32 | 6°26 | 2°33 | 13°24 | 2°54 | 4° 0 | 27°11 | 5°15 | M15 | | | | | | | | |
| T 16 | 1 40 2 | 23° 7'07 | 23°38 | 17°46 | 2° 9 | 11°15 | 2°30 | 3°39 | 6°24 | 2°35 | 13°23 | 2°50 | 3°56 | 27°17 | 5°13 | T 16 | | | | | | | | |
| W17 | 1 43 58 | 24° 6'18 | 5♎32 | 18°54 | 3°20 | 11°52 | 2°43 | 3°46 | 6°21 | 2°37 | 13°22 | 2°45 | 3°53 | 27°24 | 5°12 | W17 | | | | | | | | |
| T 18 | 1 47 55 | 25° 5'32 | 17°30 | 20° 0 | 4°31 | 12°29 | 2°56 | 3°54 | 6°19 | 2°39 | 13°21 | 2°38 | 3°50 | 27°31 | 5°10 | T 18 | | | | | | | | |
| F 19 | 1 51 51 | 26° 4'48 | 29°37 | 21° 4 | 5°42 | 13° 6 | 3° 8 | 4° 1 | 6°17 | 2°41 | 13°20 | 2°31 | 3°47 | 27°38 | 5° 9 | F 19 | | | | | | | | |
| S 20 | 1 55 48 | 27° 4'06 | 11♏53 | 22° 6 | 6°53 | 13°43 | 3°21 | 4° 8 | 6°15 | 2°43 | 13°19 | 2°25 | 3°44 | 27°44 | 5° 7 | S 20 | | | | | | | | |
| S 21 | 1 59 44 | 28° 3'26 | 24°21 | 23° 4 | 8° 4 | 14°19 | 3°34 | 4°15 | 6°12 | 2°45 | 13°18 | 2°19 | 3°40 | 27°51 | 5° 6 | S 21 | | | | | | | | |
| M22 | 2 3 41 | 29° 2'48 | 7♎ 0 | 24° 0 | 9°14 | 14°56 | 3°47 | 4°22 | 6°10 | 2°47 | 13°17 | 2°15 | 3°37 | 27°58 | 5° 4 | M22 | | | | | | | | |
| T 23 | 2 7 37 | 0♎ 2'12 | 19°52 | 24°53 | 10°25 | 15°33 | 4° 0 | 4°29 | 6° 8 | 2°49 | 13°16 | 2°13 | 3°34 | 28° 5 | 5° 3 | T 23 | | | | | | | | |
| W24 | 2 11 34 | 1° 1'38 | 2♌55 | 25°43 | 11°36 | 16° 9 | 4°13 | 4°36 | 6° 6 | 2°51 | 13°15 | 2°D12 | 3°31 | 28°11 | 5° 1 | W24 | | | | | | | | |
| T 25 | 2 15 31 | 2° 1'06 | 16°11 | 26°29 | 12°47 | 16°46 | 4°26 | 4°43 | 6° 4 | 2°53 | 13°14 | 2°13 | 3°28 | 28°18 | 5° 0 | T 25 | | | | | | | | |
| F 26 | 2 19 27 | 3° 0'36 | 29°39 | 27°10 | 13°57 | 17°22 | 4°39 | 4°50 | 6° 2 | 2°55 | 13°12 | 2°14 | 3°25 | 28°25 | 4°59 | F 26 | | | | | | | | |
| S 27 | 2 23 24 | 4° 0'08 | 13♌20 | 27°47 | 15° 8 | 17°59 | 4°53 | 4°57 | 6° 0 | 2°57 | 13°11 | 2°16 | 3°21 | 28°31 | 4°58 | S 27 | | | | | | | | |
| S 28 | 2 27 20 | 4°59'41 | 27°13 | 28°20 | 16°18 | 18°35 | 5° 6 | 5° 4 | 5°58 | 2°59 | 13°10 | 2°17 | 3°18 | 28°38 | 4°57 | S 28 | | | | | | | | |
| M29 | 2 31 17 | 5°59'16 | 11♏18 | 28°46 | 17°29 | 19°12 | 5°19 | 5°11 | 5°56 | 3° 1 | 13° 9 | 2°R17 | 3°15 | 28°45 | 4°56 | M29 | | | | | | | | |
| T 30 | 2 35 13 | 6°58'53 | 25°34 | 29° 7 | 18°39 | 19°48 | 5°32 | 5°18 | 5°54 | 3° 3 | 13° 8 | 2°16 | 3°12 | 28°52 | 4°55 | T 30 | | | | | | | | |
| W31 | 2 39 10 | 7♎58'31 | 9♌58 | 29♎21 | 19♏49 | 20♎24 | 5♎45 | 5♏25 | 5°Y52 | 3♏ 5 | 13♌ 7 | 2♎14 | 3♎ 9 | 28♏58 | 4°X54 | W31 | | | | | | | | |

Delta T = 20m07s

ASTRODIENST EPHEMERIS for the year 2598
geocentric

NOVEMBER 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|---------|----------|-------|--------|--------|-------|-------|------|-------|------|--------|-------|------|-------|-------|------|---|-----|
| T 1 | 2 43 6 | 8♁58'11 | 24♂27 | 29°R28 | 20♂759 | 21♁0 | 5♁58 | 5♁31 | 5°R50 | 3♁7 | 13°R 6 | 2°R11 | 3♁6 | 29♁5 | 4°R53 | T 1 | | |
| F 2 | 2 47 3 | 9°57'52 | 8♁55 | 29♁27 | 22°10 | 21°36 | 6°11 | 5°38 | 5°Y48 | 3° 9 | 13♁5 | 2♁7 | 3° 2 | 29°12 | 4♁52 | F 2 | | |
| S 3 | 2 51 0 | 10°57'36 | 23°16 | 29°18 | 23°20 | 22°13 | 6°24 | 5°45 | 5°46 | 3°11 | 13° 3 | 2° 4 | 2°59 | 29°18 | 4°52 | S 3 | | |
| S 4 | 2 54 56 | 11°57'21 | 7♁26 | 29° 0 | 24°30 | 22°49 | 6°37 | 5°51 | 5°44 | 3°12 | 13° 2 | 2° 2 | 2°56 | 29°25 | 4°51 | S 4 | | |
| M 5 | 2 58 53 | 12°57'08 | 21°20 | 28°34 | 25°39 | 23°25 | 6°50 | 5°58 | 5°43 | 3°14 | 13° 1 | 2° 1 | 2°53 | 29°32 | 4°50 | M 5 | | |
| T 6 | 3 2 49 | 13°56'57 | 4♁53 | 27°58 | 26°49 | 24° 1 | 7° 3 | 6° 4 | 5°41 | 3°16 | 13° 0 | 2°D 1 | 2°50 | 29°39 | 4°50 | T 6 | | |
| W 7 | 3 6 46 | 14°56'49 | 18° 6 | 27°13 | 27°59 | 24°37 | 7°16 | 6°11 | 5°39 | 3°18 | 12°59 | 2° 1 | 2°46 | 29°45 | 4°49 | W 7 | | |
| T 8 | 3 10 42 | 15°56'42 | 0♁57 | 26°19 | 29° 8 | 25°12 | 7°29 | 6°17 | 5°38 | 3°19 | 12°58 | 2° 2 | 2°43 | 29°52 | 4°49 | T 8 | | |
| F 9 | 3 14 39 | 16°56'37 | 13°29 | 25°17 | 0♁18 | 25°48 | 7°42 | 6°24 | 5°36 | 3°21 | 12°57 | 2° 4 | 2°40 | 29°59 | 4°49 | F 9 | | |
| S 10 | 3 18 35 | 17°56'35 | 25°45 | 24° 8 | 1°27 | 26°24 | 7°55 | 6°30 | 5°34 | 3°23 | 12°56 | 2° 5 | 2°37 | 0♁6 | 4°48 | S 10 | | |
| S 11 | 3 22 32 | 18°56'35 | 7♁49 | 22°54 | 2°37 | 27° 0 | 8° 7 | 6°36 | 5°33 | 3°25 | 12°54 | 2° 6 | 2°34 | 0°12 | 4°48 | S 11 | | |
| M12 | 3 26 29 | 19°56'36 | 19°44 | 21°37 | 3°46 | 27°35 | 8°20 | 6°42 | 5°31 | 3°26 | 12°53 | 2°R 6 | 2°31 | 0°19 | 4°48 | M12 | | |
| T 13 | 3 30 25 | 20°56'40 | 1♁37 | 20°19 | 4°55 | 28°11 | 8°33 | 6°48 | 5°30 | 3°28 | 12°52 | 2° 6 | 2°27 | 0°26 | 4°48 | T 13 | | |
| W14 | 3 34 22 | 21°56'46 | 13°31 | 19° 2 | 6° 4 | 28°47 | 8°46 | 6°54 | 5°28 | 3°30 | 12°51 | 2° 5 | 2°24 | 0°32 | 4°D48 | W14 | | |
| T 15 | 3 38 18 | 22°56'54 | 25°31 | 17°49 | 7°13 | 29°22 | 8°59 | 7° 0 | 5°27 | 3°31 | 12°50 | 2° 4 | 2°21 | 0°39 | 4°48 | T 15 | | |
| F 16 | 3 42 15 | 23°57'03 | 7♁42 | 16°42 | 8°21 | 29°58 | 9°12 | 7° 6 | 5°26 | 3°33 | 12°49 | 2° 3 | 2°18 | 0°46 | 4°48 | F 16 | | |
| S 17 | 3 46 11 | 24°57'15 | 20° 5 | 15°43 | 9°30 | 0♁33 | 9°25 | 7°12 | 5°24 | 3°34 | 12°48 | 2° 2 | 2°15 | 0°53 | 4°48 | S 17 | | |
| S 18 | 3 50 8 | 25°57'29 | 2♁43 | 14°55 | 10°39 | 1° 8 | 9°37 | 7°18 | 5°23 | 3°36 | 12°47 | 2° 1 | 2°12 | 0°59 | 4°49 | S 18 | | |
| M19 | 3 54 4 | 26°57'45 | 15°39 | 14°17 | 11°47 | 1°44 | 9°50 | 7°24 | 5°22 | 3°37 | 12°46 | 2° 0 | 2° 8 | 1° 6 | 4°49 | M19 | | |
| T 20 | 3 58 1 | 27°58'02 | 28°51 | 13°50 | 12°55 | 2°19 | 10° 3 | 7°30 | 5°21 | 3°39 | 12°44 | 2°D 0 | 2° 5 | 1°13 | 4°49 | T 20 | | |
| W21 | 4 1 58 | 28°58'21 | 12♁20 | 13°36 | 14° 3 | 2°54 | 10°16 | 7°35 | 5°19 | 3°40 | 12°43 | 2° 0 | 2° 2 | 1°20 | 4°50 | W21 | | |
| T 22 | 4 5 54 | 29°58'42 | 26° 2 | 13°D32 | 15°11 | 3°29 | 10°28 | 7°41 | 5°18 | 3°42 | 12°42 | 2° 0 | 1°59 | 1°26 | 4°50 | T 22 | | |
| F 23 | 4 9 51 | 0♁59'05 | 9♁56 | 13°40 | 16°19 | 4° 4 | 10°41 | 7°46 | 5°17 | 3°43 | 12°41 | 2° 1 | 1°56 | 1°33 | 4°51 | F 23 | | |
| S 24 | 4 13 47 | 1°59'28 | 23°59 | 13°58 | 17°27 | 4°39 | 10°54 | 7°52 | 5°16 | 3°44 | 12°40 | 2°R 1 | 1°52 | 1°40 | 4°51 | S 24 | | |
| S 25 | 4 17 44 | 2°59'54 | 8♁8 | 14°26 | 18°35 | 5°14 | 11° 6 | 7°57 | 5°15 | 3°46 | 12°39 | 2° 1 | 1°49 | 1°46 | 4°52 | S 25 | | |
| M26 | 4 21 40 | 4° 0'20 | 22°20 | 15° 3 | 19°42 | 5°49 | 11°19 | 8° 3 | 5°14 | 3°47 | 12°38 | 2° 1 | 1°46 | 1°53 | 4°53 | M26 | | |
| T 27 | 4 25 37 | 5° 0'48 | 6♁32 | 15°47 | 20°49 | 6°24 | 11°31 | 8° 8 | 5°13 | 3°48 | 12°37 | 2°D 1 | 1°43 | 2° 0 | 4°54 | T 27 | | |
| W28 | 4 29 34 | 6° 1'16 | 20°43 | 16°38 | 21°56 | 6°59 | 11°44 | 8°13 | 5°13 | 3°50 | 12°36 | 2° 1 | 1°40 | 2° 7 | 4°54 | W28 | | |
| T 29 | 4 33 30 | 7° 1'46 | 4♁50 | 17°35 | 23° 3 | 7°33 | 11°56 | 8°18 | 5°12 | 3°51 | 12°35 | 2° 1 | 1°37 | 2°13 | 4°55 | T 29 | | |
| F 30 | 4 37 27 | 8♁2'18 | 18♁50 | 18♁37 | 24♁10 | 8♁8 | 12♁9 | 8♁23 | 5°Y11 | 3♁52 | 12♁34 | 2♁1 | 1♁33 | 2♁20 | 4♁56 | F 30 | | |

Delta T = 20m07s

DECEMBER 2598

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | ♄ | ♃ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|------|--------|-------|-------|------|------|------|---|-----|
| S 1 | 4 41 23 | 9♁2'50 | 2♁42 | 19♁44 | 25♁16 | 8♁42 | 12♁21 | 8♁28 | 5°R10 | 3♁53 | 12°R33 | 2♁2 | 1♁30 | 2♁27 | 4♁57 | S 1 | | |
| S 2 | 4 45 20 | 10° 3'24 | 16°23 | 20°55 | 26°23 | 9°17 | 12°33 | 8°33 | 5°Y10 | 3°54 | 12♁32 | 2° 3 | 1°27 | 2°33 | 4°58 | S 2 | | |
| M 3 | 4 49 16 | 11° 3'59 | 29°52 | 22° 9 | 27°29 | 9°51 | 12°45 | 8°38 | 5° 9 | 3°56 | 12°31 | 2°R 3 | 1°24 | 2°40 | 5° 0 | M 3 | | |
| T 4 | 4 53 13 | 12° 4'35 | 13♁7 | 23°27 | 28°34 | 10°26 | 12°58 | 8°42 | 5° 9 | 3°57 | 12°30 | 2° 3 | 1°21 | 2°47 | 5° 1 | T 4 | | |
| W 5 | 4 57 9 | 13° 5'13 | 26° 6 | 24°46 | 29°40 | 11° 0 | 13°10 | 8°47 | 5° 8 | 3°58 | 12°29 | 2° 2 | 1°18 | 2°54 | 5° 2 | W 5 | | |
| T 6 | 5 1 6 | 14° 5'53 | 8♁50 | 26° 8 | 0♁45 | 11°34 | 13°22 | 8°51 | 5° 8 | 3°59 | 12°28 | 2° 1 | 1°14 | 3° 0 | 5° 4 | T 6 | | |
| F 7 | 5 5 5 3 | 15° 6'33 | 21°18 | 27°32 | 1°51 | 12° 8 | 13°34 | 8°56 | 5° 7 | 4° 0 | 12°27 | 1°59 | 1°11 | 3° 7 | 5° 5 | F 7 | | |
| S 8 | 5 8 59 | 16° 7'16 | 3♁33 | 28°57 | 2°56 | 12°42 | 13°46 | 9° 0 | 5° 7 | 4° 1 | 12°26 | 1°57 | 1° 8 | 3°14 | 5° 6 | S 8 | | |
| S 9 | 5 12 56 | 17° 7'59 | 15°37 | 0♁23 | 4° 0 | 13°16 | 13°58 | 9° 4 | 5° 7 | 4° 2 | 12°25 | 1°55 | 1° 5 | 3°21 | 5° 8 | S 9 | | |
| M10 | 5 16 52 | 18° 8'44 | 27°33 | 1°51 | 5° 5 | 13°50 | 14°10 | 9° 9 | 5° 6 | 4° 2 | 12°24 | 1°53 | 1° 2 | 3°27 | 5°10 | M10 | | |
| T 11 | 5 20 49 | 19° 9'31 | 9♁26 | 3°19 | 6° 9 | 14°24 | 14°22 | 9°13 | 5° 6 | 4° 3 | 12°24 | 1°52 | 0°58 | 3°34 | 5°11 | T 11 | | |
| W12 | 5 24 45 | 20°10'18 | 21°19 | 4°48 | 7°13 | 14°58 | 14°33 | 9°17 | 5° 6 | 4° 4 | 12°23 | 1°D51 | 0°55 | 3°41 | 5°13 | W12 | | |
| T 13 | 5 28 42 | 21°11'08 | 3♁18 | 6°18 | 8°16 | 15°31 | 14°45 | 9°21 | 5° 6 | 4° 5 | 12°22 | 1°52 | 0°52 | 3°47 | 5°15 | T 13 | | |
| F 14 | 5 32 38 | 22°11'58 | 15°27 | 7°48 | 9°19 | 16° 5 | 14°57 | 9°25 | 5°D 6 | 4° 6 | 12°21 | 1°53 | 0°49 | 3°54 | 5°17 | F 14 | | |
| S 15 | 5 36 35 | 23°12'50 | 27°51 | 9°19 | 10°22 | 16°38 | 15° 8 | 9°28 | 5° 6 | 4° 6 | 12°20 | 1°55 | 0°46 | 4° 1 | 5°18 | S 15 | | |
| S 16 | 5 40 32 | 24°13'43 | 10♁33 | 10°50 | 11°25 | 17°12 | 15°20 | 9°32 | 5° 6 | 4° 7 | 12°19 | 1°56 | 0°43 | 4° 8 | 5°20 | S 16 | | |
| M17 | 5 44 28 | 25°14'38 | 23°37 | 12°21 | 12°27 | 17°45 | 15°31 | 9°36 | 5° 6 | 4° 8 | 12°19 | 1°57 | 0°39 | 4°14 | 5°22 | M17 | | |
| T 18 | 5 48 25 | 26°15'33 | 7♁4 | 13°53 | 13°29 | 18°18 | 15°43 | 9°39 | 5° 6 | 4° 9 | 12°18 | 1°R57 | 0°36 | 4°21 | 5°24 | T 18 | | |
| W19 | 5 52 21 | 27°16'30 | 20°54 | 15°25 | 14°31 | 18°51 | 15°54 | 9°42 | 5° 7 | 4° 9 | 12°17 | 1°56 | 0°33 | 4°28 | 5°27 | W19 | | |
| T 20 | 5 56 18 | 28°17'28 | 5♁3 | 16°57 | 15°32 | 19°24 | 16° 5 | 9°46 | 5° 7 | 4°10 | 12°16 | 1°54 | 0°30 | 4°35 | 5°29 | T 20 | | |
| F 21 | 6 0 14 | 29°18'27 | 19°27 | 18°29 | 16°33 | 19°57 | 16°16 | 9°49 | 5° 7 | 4°10 | 12°16 | 1°50 | 0°27 | 4°41 | 5°31 | F 21 | | |
| S 22 | 6 4 11 | 0♁19'26 | 4♁0 | 20° 2 | 17°33 | 20°30 | 16°27 | 9°52 | 5° 8 | 4°11 | 12°15 | 1°46 | 0°24 | 4°48 | 5°33 | S 22 | | |
| S 23 | 6 8 7 | 1°20'26 | 18°35 | 21°34 | 18°33 | 21° 3 | 16°39 | 9°55 | 5° 8 | 4°11 | 12°14 | 1°42 | 0°20 | 4°55 | 5°36 | S 23 | | |
| M24 | 6 12 4 | 2°21'26 | 3♁7 | 23° 7 | 19°33 | 21°36 | 16°49 | 9°58 | 5° 9 | 4°12 | 12°14 | 1°38 | 0°17 | 5° 1 | 5°38 | M24 | | |
| T 25 | 6 16 1 | 3°22'27 | 17°30 | 24°40 | 20°32 | 22° 8 | 17° 0 | 10° 1 | 5° 9 | 4°12 | 12°13 | 1°35 | 0°14 | 5° 8 | 5°40 | T 25 | | |
| W26 | 6 19 57 | 4°23'28 | 1°Y41 | 26°13 | 21°31 | 22°41 | 17°11 | 10° 3 | 5°10 | 4°12 | 12°12 | 1°D34 | 0°11 | 5°15 | 5°43 | W26 | | |
| T 27 | 6 23 54 | 5°24'30 | 15°38 | 27°46 | 22°29 | 23°13 | 17°22 | 10° 6 | 5°10 | 4°13 | 12°12 | 1°35 | 0° 8 | 5°22 | 5°45 | T 27 | | |
| F 28 | 6 27 50 | 6°25'31 | 29°21 | 29°19 | 23°26 | 23°45 | 17°32 | 10° 8 | 5°11 | 4°13 | 12°11 | 1°36 | 0° 4 | 5°28 | 5°48 | F 28 | | |
| S 29 | 6 31 47 | 7°26'34 | 12♁49 | 0♁53 | 24°24 | 24°17 | 17°43 | 10°11 | 5°12 | 4°13 | 12°10 | 1°38 | 0° 1 | 5°35 | 5°51 | S 29 | | |
| S 30 | 6 35 43 | 8°27'36 | 26° 5 | 2°26 | 25°20 | 24°49 | 17°53 | 10°13 | 5°13 | 4°13 | 12°10 | 1°R39 | 29♁58 | 5°42 | 5°53 | S 30 | | |
| M31 | 6 39 40 | 9♁28'39 | 9♁8 | 4♁0 | 26♁16 | 25♁21 | 18♁4 | 10♁15 | 5°Y13 | 4♁14 | 12♁9 | 1♁39 | 29♁55 | 5♁49 | 5♁56 | M31 | | |

Delta T = 20m08s

ASTRODIENST EPHEMERIS for the year 2599
geocentric

JANUARY 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|------|------|--------|--------|-------|------|------|------|---|---|---|---|---|---|-----|
| T 1 | 6 43 37 | 10♌29'42 | 22♊0 | 5♄34 | 27♋12 | 25♌53 | 18♍14 | 10♎17 | 5♏14 | 4♐14 | 12♑9 | 1♒37 | 29♓52 | 5♉55 | 5♈59 | T 1 | | | | | | | |
| W 2 | 6 47 33 | 11°30'46 | 4♌40 | 7° 8 | 28° 6 | 26°25 | 18°24 | 10°19 | 5°15 | 4°14 | 12♑8 | 1♒33 | 29°49 | 6° 2 | 6° 2 | W 2 | | | | | | | |
| T 3 | 6 51 30 | 12°31'50 | 17°10 | 8°42 | 29° 0 | 26°56 | 18°34 | 10°21 | 5°16 | 4°14 | 12° 8 | 1°27 | 29°45 | 6° 9 | 6° 4 | T 3 | | | | | | | |
| F 4 | 6 55 26 | 13°32'55 | 29°29 | 10°17 | 29°54 | 27°28 | 18°44 | 10°23 | 5°17 | 4°14 | 12° 7 | 1°19 | 29°42 | 6°15 | 6° 7 | F 4 | | | | | | | |
| S 5 | 6 59 23 | 14°34'00 | 11♌39 | 11°52 | 0♈47 | 27°59 | 18°54 | 10°24 | 5°18 | 4♒14 | 12° 7 | 1°11 | 29°39 | 6°22 | 6°10 | S 5 | | | | | | | |
| S 6 | 7 3 19 | 15°35'05 | 23°40 | 13°27 | 1°39 | 28°30 | 19° 4 | 10°26 | 5°20 | 4°14 | 12° 6 | 1° 2 | 29°36 | 6°29 | 6°13 | S 6 | | | | | | | |
| M 7 | 7 7 16 | 16°36'11 | 5♎35 | 15° 2 | 2°30 | 29° 1 | 19°13 | 10°27 | 5°21 | 4°14 | 12° 6 | 0°54 | 29°33 | 6°36 | 6°16 | M 7 | | | | | | | |
| T 8 | 7 11 12 | 17°37'17 | 17°26 | 16°38 | 3°20 | 29°32 | 19°23 | 10°29 | 5°22 | 4°14 | 12° 6 | 0°48 | 29°30 | 6°42 | 6°19 | T 8 | | | | | | | |
| W 9 | 7 15 9 | 18°38'23 | 29°17 | 18°14 | 4°10 | 0♍3 | 19°32 | 10°30 | 5°23 | 4°14 | 12° 5 | 0°43 | 29°26 | 6°49 | 6°22 | W 9 | | | | | | | |
| T 10 | 7 19 6 | 19°39'30 | 11♌13 | 19°50 | 4°59 | 0°34 | 19°42 | 10°31 | 5°25 | 4°14 | 12° 5 | 0°41 | 29°23 | 6°56 | 6°26 | T 10 | | | | | | | |
| F 11 | 7 23 2 | 20°40'37 | 23°19 | 21°27 | 5°47 | 1° 5 | 19°51 | 10°32 | 5°26 | 4°14 | 12° 5 | 0°D41 | 29°20 | 7° 2 | 6°29 | F 11 | | | | | | | |
| S 12 | 7 26 59 | 21°41'45 | 5♎38 | 23° 4 | 6°34 | 1°35 | 20° 0 | 10°33 | 5°27 | 4°13 | 12° 4 | 0°41 | 29°17 | 7° 9 | 6°32 | S 12 | | | | | | | |
| S 13 | 7 30 55 | 22°42'53 | 18°17 | 24°41 | 7°20 | 2° 5 | 20° 9 | 10°34 | 5°29 | 4°13 | 12° 4 | 0°43 | 29°14 | 7°16 | 6°35 | S 13 | | | | | | | |
| M14 | 7 34 52 | 23°44'01 | 1♌20 | 26°19 | 8° 5 | 2°35 | 20°18 | 10°34 | 5°30 | 4°13 | 12° 4 | 0°R43 | 29°10 | 7°23 | 6°39 | M14 | | | | | | | |
| T 15 | 7 38 48 | 24°45'10 | 14°49 | 27°57 | 8°49 | 3° 5 | 20°27 | 10°35 | 5°32 | 4°12 | 12° 3 | 0°42 | 29° 7 | 7°29 | 6°42 | T 15 | | | | | | | |
| W16 | 7 42 45 | 25°46'19 | 28°47 | 29°35 | 9°32 | 3°35 | 20°35 | 10°35 | 5°34 | 4°12 | 12° 3 | 0°39 | 29° 4 | 7°36 | 6°45 | W16 | | | | | | | |
| T 17 | 7 46 41 | 26°47'28 | 13♌11 | 1♌14 | 10°14 | 4° 5 | 20°44 | 10°36 | 5°35 | 4°12 | 12° 3 | 0°33 | 29° 1 | 7°43 | 6°49 | T 17 | | | | | | | |
| F 18 | 7 50 38 | 27°48'36 | 27°57 | 2°53 | 10°55 | 4°35 | 20°52 | 10°36 | 5°37 | 4°11 | 12° 3 | 0°25 | 28°58 | 7°50 | 6°52 | F 18 | | | | | | | |
| S 19 | 7 54 35 | 28°49'45 | 12♋57 | 4°33 | 11°35 | 5° 4 | 21° 1 | 10°36 | 5°39 | 4°11 | 12° 3 | 0°16 | 28°55 | 7°56 | 6°56 | S 19 | | | | | | | |
| S 20 | 7 58 31 | 29°50'53 | 28° 0 | 6°12 | 12°13 | 5°33 | 21° 9 | 10°R36 | 5°40 | 4°10 | 12° 3 | 0° 6 | 28°51 | 8° 3 | 6°59 | S 20 | | | | | | | |
| M21 | 8 2 28 | 0♋52'01 | 12♋58 | 7°53 | 12°50 | 6° 2 | 21°17 | 10°36 | 5°42 | 4°10 | 12° 2 | 29♓58 | 28°48 | 8°10 | 7° 3 | M21 | | | | | | | |
| T 22 | 8 6 24 | 1°53'08 | 27°42 | 9°33 | 13°26 | 6°31 | 21°25 | 10°36 | 5°44 | 4° 9 | 12° 2 | 29°51 | 28°45 | 8°16 | 7° 7 | T 22 | | | | | | | |
| W23 | 8 10 21 | 2°54'15 | 12♎6 | 11°14 | 14° 0 | 7° 0 | 21°33 | 10°35 | 5°46 | 4° 9 | 12° 2 | 29°47 | 28°42 | 8°23 | 7°10 | W23 | | | | | | | |
| T 24 | 8 14 17 | 3°55'21 | 26° 8 | 12°55 | 14°33 | 7°28 | 21°40 | 10°35 | 5°48 | 4° 8 | 12° 2 | 29°45 | 28°39 | 8°30 | 7°14 | T 24 | | | | | | | |
| F 25 | 8 18 14 | 4°56'26 | 9♌47 | 14°36 | 15° 4 | 7°56 | 21°48 | 10°35 | 5°50 | 4° 7 | 12°D 2 | 29°D45 | 28°36 | 8°37 | 7°18 | F 25 | | | | | | | |
| S 26 | 8 22 10 | 5°57'31 | 23° 6 | 16°17 | 15°34 | 8°25 | 21°55 | 10°34 | 5°52 | 4° 7 | 12° 2 | 29°R45 | 28°32 | 8°43 | 7°21 | S 26 | | | | | | | |
| S 27 | 8 26 7 | 6°58'34 | 6♊6 | 17°58 | 16° 2 | 8°53 | 22° 2 | 10°33 | 5°54 | 4° 6 | 12° 2 | 29°45 | 28°29 | 8°50 | 7°25 | S 27 | | | | | | | |
| M28 | 8 30 4 | 7°59'38 | 18°51 | 19°39 | 16°28 | 9°20 | 22° 9 | 10°32 | 5°56 | 4° 5 | 12° 2 | 29°43 | 28°26 | 8°57 | 7°29 | M28 | | | | | | | |
| T 29 | 8 34 0 | 9° 0'40 | 1♌24 | 21°20 | 16°52 | 9°48 | 22°16 | 10°31 | 5°59 | 4° 5 | 12° 2 | 29°39 | 28°23 | 9° 3 | 7°33 | T 29 | | | | | | | |
| W30 | 8 37 57 | 10° 1'42 | 13°47 | 23° 0 | 17°15 | 10°15 | 22°23 | 10°30 | 6° 1 | 4° 4 | 12° 2 | 29°32 | 28°20 | 9°10 | 7°36 | W30 | | | | | | | |
| T 31 | 8 41 53 | 11° 2'43 | 26♌2 | 24°39 | 17°36 | 10♍42 | 22♍30 | 10♎29 | 6° 3 | 4♎3 | 12♑3 | 29♓22 | 28♓16 | 9♎17 | 7♈40 | T 31 | | | | | | | |

Delta T = 20m08s

FEBRUARY 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|--------|-------|-------|-------|--------|-------|-------|------|------|---|---|---|---|---|---|-----|
| F 1 | 8 45 50 | 12°33'43 | 8♌10 | 26°18 | 17°54 | 11♍9 | 22♍36 | 10°R28 | 6° 5 | 4°R 2 | 12♑3 | 29°R 9 | 28♓13 | 9♎24 | 7♈44 | F 1 | | | | | | | |
| S 2 | 8 49 46 | 13° 4'42 | 20°12 | 27°56 | 18°11 | 11°36 | 22°43 | 10♎26 | 6° 8 | 4♎1 | 12° 3 | 28♓55 | 28°10 | 9°30 | 7°48 | S 2 | | | | | | | |
| S 3 | 8 53 43 | 14° 5'41 | 2♎9 | 29°32 | 18°25 | 12° 3 | 22°49 | 10°25 | 6°10 | 4° 0 | 12° 3 | 28°41 | 28° 7 | 9°37 | 7°52 | S 3 | | | | | | | |
| M 4 | 8 57 39 | 15° 6'39 | 14° 1 | 1♈6 | 18°38 | 12°29 | 22°55 | 10°23 | 6°12 | 3°59 | 12° 3 | 28°27 | 28° 4 | 9°44 | 7°56 | M 4 | | | | | | | |
| T 5 | 9 1 36 | 16° 7'36 | 25°52 | 2°38 | 18°48 | 12°55 | 23° 1 | 10°22 | 6°15 | 3°58 | 12° 3 | 28°16 | 28° 1 | 9°51 | 8° 0 | T 5 | | | | | | | |
| W 6 | 9 5 33 | 17° 8'33 | 7♌44 | 4° 7 | 18°56 | 13°21 | 23° 7 | 10°20 | 6°17 | 3°57 | 12° 4 | 28° 7 | 27°57 | 9°57 | 8° 4 | W 6 | | | | | | | |
| T 7 | 9 9 29 | 18° 9'29 | 19°39 | 5°33 | 19° 1 | 13°47 | 23°12 | 10°18 | 6°20 | 3°56 | 12° 4 | 28° 1 | 27°54 | 10° 4 | 8° 8 | T 7 | | | | | | | |
| F 8 | 9 13 26 | 19°10'24 | 1♍42 | 6°56 | 19° 4 | 14°12 | 23°18 | 10°16 | 6°22 | 3°55 | 12° 4 | 27°58 | 27°51 | 10°11 | 8°12 | F 8 | | | | | | | |
| S 9 | 9 17 22 | 20°11'19 | 13°57 | 8°13 | 19°R 5 | 14°37 | 23°23 | 10°14 | 6°25 | 3°54 | 12° 5 | 27°57 | 27°48 | 10°17 | 8°16 | S 9 | | | | | | | |
| S 10 | 9 21 19 | 21°12'13 | 26°31 | 9°25 | 19° 3 | 15° 2 | 23°28 | 10°11 | 6°28 | 3°53 | 12° 5 | 27°57 | 27°45 | 10°24 | 8°20 | S 10 | | | | | | | |
| M11 | 9 25 15 | 22°13'06 | 9♌26 | 10°32 | 18°59 | 15°27 | 23°33 | 10° 9 | 6°30 | 3°52 | 12° 5 | 27°57 | 27°42 | 10°31 | 8°24 | M11 | | | | | | | |
| T 12 | 9 29 12 | 23°13'59 | 22°49 | 11°31 | 18°52 | 15°51 | 23°38 | 10° 7 | 6°33 | 3°51 | 12° 6 | 27°55 | 27°38 | 10°38 | 8°28 | T 12 | | | | | | | |
| W13 | 9 33 8 | 24°14'51 | 6♌42 | 12°23 | 18°43 | 16°15 | 23°43 | 10° 4 | 6°36 | 3°50 | 12° 6 | 27°51 | 27°35 | 10°44 | 8°32 | W13 | | | | | | | |
| T 14 | 9 37 5 | 25°15'42 | 21° 5 | 13° 7 | 18°31 | 16°39 | 23°47 | 10° 2 | 6°38 | 3°48 | 12° 6 | 27°44 | 27°32 | 10°51 | 8°36 | T 14 | | | | | | | |
| F 15 | 9 41 2 | 26°16'32 | 5♋55 | 13°41 | 18°17 | 17° 2 | 23°51 | 9°59 | 6°41 | 3°47 | 12° 7 | 27°34 | 27°29 | 10°58 | 8°40 | F 15 | | | | | | | |
| S 16 | 9 44 58 | 27°17'21 | 21° 4 | 14° 5 | 18° 0 | 17°26 | 23°56 | 9°56 | 6°44 | 3°46 | 12° 7 | 27°23 | 27°26 | 11° 4 | 8°44 | S 16 | | | | | | | |
| S 17 | 9 48 55 | 28°18'09 | 6♈24 | 14°20 | 17°41 | 17°49 | 24° 0 | 9°53 | 6°47 | 3°45 | 12° 8 | 27°11 | 27°22 | 11°11 | 8°49 | S 17 | | | | | | | |
| M18 | 9 52 51 | 29°18'56 | 21°41 | 14°R23 | 17°20 | 18°11 | 24° 3 | 9°50 | 6°50 | 3°43 | 12° 8 | 27° 0 | 27°19 | 11°18 | 8°53 | M18 | | | | | | | |
| T 19 | 9 56 48 | 0♈19'41 | 6° 45 | 14°16 | 16°56 | 18°33 | 24° 7 | 9°47 | 6°53 | 3°42 | 12° 9 | 26°51 | 27°16 | 11°25 | 8°57 | T 19 | | | | | | | |
| W20 | 10 0 44 | 1°20'25 | 21°27 | 13°58 | 16°30 | 18°55 | 24°10 | 9°44 | 6°56 | 3°41 | 12° 9 | 26°45 | 27°13 | 11°31 | 9° 1 | W20 | | | | | | | |
| T 21 | 10 4 41 | 2°21'07 | 5♌43 | 13°29 | 16° 2 | 19°17 | 24°14 | 9°41 | 6°58 | 3°39 | 12°10 | 26°42 | 27°10 | 11°38 | 9° 5 | T 21 | | | | | | | |
| F 22 | 10 8 37 | 3°21'48 | 19°31 | 12°51 | 15°33 | 19°38 | 24°17 | 9°38 | 7° 1 | 3°38 | 12°11 | 26°41 | 27° 7 | 11°45 | 9° 9 | F 22 | | | | | | | |
| S 23 | 10 12 34 | 4°22'27 | 2♊53 | 12° 4 | 15° 1 | 19°59 | 24°20 | 9°34 | 7° 4 | 3°37 | 12°11 | 26°41 | 27° 3 | 11°51 | 9°14 | S 23 | | | | | | | |
| S 24 | 10 16 31 | 5°23'04 | 15°51 | 11° 9 | 14°28 | 20°20 | 24°22 | 9°31 | 7° 7 | 3°35 | 12°12 | 26°40 | 27° 0 | 11°58 | 9°18 | S 24 | | | | | | | |
| M25 | 10 20 27 | 6°23'40 | 28°30 | 10° 9 | 13°54 | 20°40 | 24°25 | 9°27 | 7°11 | 3°34 | 12°12 | 26°39 | 26°57 | 12° 5 | 9°22 | M25 | | | | | | | |
| T 26 | 10 24 24 | 7°24'14 | 10♌53 | 9° 4 | 13°18 | 21° 0 | 24°27 | 9°24 | 7°14 | 3°32 | 12°13 | 26°34 | 26°54 | 12°12 | 9°26 | T 26 | | | | | | | |
| W27 | 10 28 20 | 8°24'46 | 23° 6 | 7°56 | 12°42 | 21°20 | 24°30 | 9°20 | 7°17 | 3°31 | 12°14 | 26°27 | 26°51 | 12°18 | 9°30 | W27 | | | | | | | |
| T 28 | 10 32 17 | 9♈25'17 | 5♌10 | 6♈48 | 12♈5 | 21♍39 | 24♍32 | 9♎17 | 7° 20 | 3♎30 | 12♑14 | 26♓17 | 26♓48 | 12♎25 | 9♈34 | T 28 | | | | | | | |

Delta T = 20m08s

ASTRODIENST EPHEMERIS for the year 2599
geocentric

MARCH 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|-------|--------|--------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|------|
| F 1 | 10 36 13 | 10♌25'46 | 17♏ 9 | 5°R41 | 11°R27 | 21♌58 | 24♌33 | 9°R13 | 7°V23 | 3°R28 | 12♌15 | 26°R 5 | 26♌44 | 12♏32 | 9♏39 | F 1 |
| S 2 | 10 40 10 | 11°26'13 | 29° 4 | 4♌36 | 10♌50 | 22°16 | 24°35 | 9♌ 9 | 7°26 | 3♌27 | 12°16 | 25♌51 | 26°41 | 12°38 | 9°43 | S 2 |
| S 3 | 10 44 6 | 12°26'39 | 10♏57 | 3°35 | 10°12 | 22°34 | 24°36 | 9° 5 | 7°29 | 3°25 | 12°17 | 25°37 | 26°38 | 12°45 | 9°47 | S 3 |
| M 4 | 10 48 3 | 13°27'03 | 22°49 | 2°40 | 9°35 | 22°52 | 24°38 | 9° 1 | 7°32 | 3°23 | 12°17 | 25°24 | 26°35 | 12°52 | 9°51 | M 4 |
| T 5 | 10 52 0 | 14°27'26 | 4♌41 | 1°50 | 8°59 | 23° 9 | 24°39 | 8°57 | 7°36 | 3°22 | 12°18 | 25°12 | 26°32 | 12°59 | 9°55 | T 5 |
| W 6 | 10 55 56 | 15°27'47 | 16°36 | 1° 7 | 8°24 | 23°26 | 24°40 | 8°53 | 7°39 | 3°20 | 12°19 | 25° 3 | 26°28 | 13° 5 | 9°59 | W 6 |
| T 7 | 10 59 53 | 16°28'06 | 28°36 | 0°31 | 7°49 | 23°42 | 24°40 | 8°49 | 7°42 | 3°19 | 12°20 | 24°57 | 26°25 | 13°12 | 10° 4 | T 7 |
| F 8 | 11 3 49 | 17°28'24 | 10♌42 | 0° 3 | 7°16 | 23°58 | 24°41 | 8°44 | 7°45 | 3°17 | 12°21 | 24°54 | 26°22 | 13°19 | 10° 8 | F 8 |
| S 9 | 11 7 46 | 18°28'41 | 23° 0 | 29♌41 | 6°45 | 24°14 | 24°41 | 8°40 | 7°49 | 3°16 | 12°22 | 24°D53 | 26°19 | 13°26 | 10°12 | S 9 |
| S 10 | 11 11 42 | 19°28'56 | 5♌32 | 29°27 | 6°15 | 24°29 | 24°R41 | 8°36 | 7°52 | 3°14 | 12°23 | 24°53 | 26°16 | 13°32 | 10°16 | S 10 |
| M 11 | 11 15 39 | 20°29'10 | 18°24 | 29°19 | 5°48 | 24°43 | 24°41 | 8°32 | 7°55 | 3°12 | 12°23 | 24°R54 | 26°13 | 13°39 | 10°20 | M 11 |
| T 12 | 11 19 35 | 21°29'22 | 1♌40 | 29°D19 | 5°22 | 24°57 | 24°41 | 8°27 | 7°58 | 3°11 | 12°24 | 24°53 | 26° 9 | 13°46 | 10°24 | T 12 |
| W 13 | 11 23 32 | 22°29'33 | 15°22 | 29°25 | 4°58 | 25°11 | 24°41 | 8°23 | 8° 2 | 3° 9 | 12°25 | 24°51 | 26° 6 | 13°52 | 10°28 | W 13 |
| T 14 | 11 27 29 | 23°29'43 | 29°33 | 29°37 | 4°37 | 25°24 | 24°40 | 8°18 | 8° 5 | 3° 8 | 12°26 | 24°46 | 26° 3 | 13°59 | 10°33 | T 14 |
| F 15 | 11 31 25 | 24°29'51 | 14♌12 | 29°54 | 4°18 | 25°36 | 24°39 | 8°14 | 8° 8 | 3° 6 | 12°27 | 24°39 | 26° 0 | 14° 6 | 10°37 | F 15 |
| S 16 | 11 35 22 | 25°29'57 | 29°12 | 0♌17 | 4° 1 | 25°48 | 24°38 | 8° 9 | 8°12 | 3° 4 | 12°28 | 24°31 | 25°57 | 14°13 | 10°41 | S 16 |
| S 17 | 11 39 18 | 26°30'02 | 14♌27 | 0°45 | 3°47 | 25°59 | 24°37 | 8° 5 | 8°15 | 3° 3 | 12°29 | 24°22 | 25°54 | 14°19 | 10°45 | S 17 |
| M 18 | 11 43 15 | 27°30'05 | 29°45 | 1°18 | 3°36 | 26°10 | 24°36 | 8° 0 | 8°19 | 3° 1 | 12°30 | 24°13 | 25°50 | 14°26 | 10°49 | M 18 |
| T 19 | 11 47 11 | 28°30'05 | 14♌56 | 1°55 | 3°26 | 26°20 | 24°34 | 7°55 | 8°22 | 2°59 | 12°31 | 24° 6 | 25°47 | 14°33 | 10°53 | T 19 |
| W 20 | 11 51 8 | 29°30'04 | 29°48 | 2°36 | 3°20 | 26°30 | 24°32 | 7°51 | 8°25 | 2°58 | 12°32 | 24° 1 | 25°44 | 14°39 | 10°57 | W 20 |
| T 21 | 11 55 4 | 0♌30'01 | 14♌16 | 3°21 | 3°15 | 26°39 | 24°31 | 7°46 | 8°29 | 2°56 | 12°33 | 23°59 | 25°41 | 14°46 | 11° 1 | T 21 |
| F 22 | 11 59 1 | 1°29'56 | 28°16 | 4° 9 | 3°D13 | 26°48 | 24°28 | 7°41 | 8°32 | 2°54 | 12°34 | 23°D59 | 25°38 | 14°53 | 11° 5 | F 22 |
| S 23 | 12 2 58 | 2°29'49 | 11♌47 | 5° 1 | 3°14 | 26°56 | 24°26 | 7°37 | 8°36 | 2°53 | 12°35 | 23°59 | 25°34 | 15° 0 | 11° 9 | S 23 |
| S 24 | 12 6 54 | 3°29'40 | 24°52 | 5°55 | 3°17 | 27° 3 | 24°24 | 7°32 | 8°39 | 2°51 | 12°37 | 24° 0 | 25°31 | 15° 6 | 11°13 | S 24 |
| M 25 | 12 10 51 | 4°29'28 | 7♌34 | 6°53 | 3°22 | 27° 9 | 24°21 | 7°27 | 8°42 | 2°49 | 12°38 | 24°R 1 | 25°28 | 15°13 | 11°17 | M 25 |
| T 26 | 12 14 47 | 5°29'15 | 19°57 | 7°54 | 3°29 | 27°15 | 24°18 | 7°22 | 8°46 | 2°48 | 12°39 | 23°59 | 25°25 | 15°20 | 11°21 | T 26 |
| W 27 | 12 18 44 | 6°28'59 | 2♌ 7 | 8°57 | 3°39 | 27°21 | 24°15 | 7°18 | 8°49 | 2°46 | 12°40 | 23°56 | 25°22 | 15°26 | 11°24 | W 27 |
| T 28 | 12 22 40 | 7°28'40 | 14° 7 | 10° 2 | 3°51 | 27°25 | 24°12 | 7°13 | 8°53 | 2°44 | 12°41 | 23°51 | 25°19 | 15°33 | 11°28 | T 28 |
| F 29 | 12 26 37 | 8°28'20 | 26° 2 | 11°10 | 4° 5 | 27°29 | 24° 9 | 7° 8 | 8°56 | 2°43 | 12°42 | 23°44 | 25°15 | 15°40 | 11°32 | F 29 |
| S 30 | 12 30 33 | 9°27'57 | 7♏53 | 12°20 | 4°21 | 27°33 | 24° 5 | 7° 3 | 9° 0 | 2°41 | 12°43 | 23°35 | 25°12 | 15°47 | 11°36 | S 30 |
| S 31 | 12 34 30 | 10°V27'33 | 19♏45 | 13♌32 | 4♌39 | 27♌35 | 24♌ 1 | 6♌59 | 9°V 3 | 2♌39 | 12♌45 | 23♌27 | 25♌ 9 | 15♏53 | 11♌40 | S 31 |

Delta T = 20m09s

APRIL 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|-------|-------|-------|--------|--------|-------|--------|-------|-------|--------|-------|-------|-------|------|
| M 1 | 12 38 26 | 11°V27'06 | 1♌38 | 14♌46 | 4♌59 | 27♌37 | 23°R58 | 6°R54 | 9°V 6 | 2°R38 | 12♌46 | 23°R19 | 25♌ 6 | 16♏ 0 | 11♌43 | M 1 |
| T 2 | 12 42 23 | 12°26'37 | 13°36 | 16° 2 | 5°20 | 27°38 | 23♌53 | 6♌49 | 9°10 | 2♌36 | 12°47 | 23♌12 | 25° 3 | 16° 7 | 11°47 | T 2 |
| W 3 | 12 46 20 | 13°26'06 | 25°38 | 17°20 | 5°44 | 27°R39 | 23°49 | 6°45 | 9°13 | 2°35 | 12°48 | 23° 7 | 24°59 | 16°13 | 11°51 | W 3 |
| T 4 | 12 50 16 | 14°25'33 | 7♌47 | 18°40 | 6° 9 | 27°39 | 23°45 | 6°40 | 9°17 | 2°33 | 12°49 | 23° 3 | 24°56 | 16°20 | 11°54 | T 4 |
| F 5 | 12 54 13 | 15°24'59 | 20° 5 | 20° 1 | 6°36 | 27°38 | 23°40 | 6°35 | 9°20 | 2°31 | 12°51 | 23°D 2 | 24°53 | 16°27 | 11°58 | F 5 |
| S 6 | 12 58 9 | 16°24'22 | 2♌33 | 21°24 | 7° 5 | 27°36 | 23°36 | 6°31 | 9°23 | 2°30 | 12°52 | 23° 3 | 24°50 | 16°34 | 12° 2 | S 6 |
| S 7 | 13 2 6 | 17°23'44 | 15°14 | 22°49 | 7°35 | 27°33 | 23°31 | 6°26 | 9°27 | 2°28 | 12°53 | 23° 4 | 24°47 | 16°40 | 12° 5 | S 7 |
| M 8 | 13 6 2 | 18°23'04 | 28°12 | 24°15 | 8° 6 | 27°30 | 23°26 | 6°21 | 9°30 | 2°26 | 12°54 | 23° 6 | 24°44 | 16°47 | 12° 9 | M 8 |
| T 9 | 13 9 59 | 19°22'23 | 11♌28 | 25°43 | 8°39 | 27°26 | 23°21 | 6°17 | 9°34 | 2°25 | 12°56 | 23° 7 | 24°40 | 16°54 | 12°12 | T 9 |
| W 10 | 13 13 55 | 20°21'39 | 25° 6 | 27°12 | 9°14 | 27°21 | 23°16 | 6°12 | 9°37 | 2°23 | 12°57 | 23°R 7 | 24°37 | 17° 0 | 12°16 | W 10 |
| T 11 | 13 17 52 | 21°20'54 | 9♌ 6 | 28°43 | 9°49 | 27°16 | 23°10 | 6° 8 | 9°40 | 2°22 | 12°58 | 23° 6 | 24°34 | 17° 7 | 12°19 | T 11 |
| F 12 | 13 21 49 | 22°20'08 | 23°28 | 0°V16 | 10°26 | 27°10 | 23° 5 | 6° 3 | 9°44 | 2°20 | 13° 0 | 23° 3 | 24°31 | 17°14 | 12°23 | F 12 |
| S 13 | 13 25 45 | 23°19'19 | 8♌ 9 | 1°49 | 11° 4 | 27° 2 | 22°59 | 5°59 | 9°47 | 2°19 | 13° 1 | 22°59 | 24°28 | 17°21 | 12°26 | S 13 |
| S 14 | 13 29 42 | 24°18'29 | 23° 3 | 3°25 | 11°44 | 26°55 | 22°53 | 5°54 | 9°50 | 2°17 | 13° 2 | 22°55 | 24°25 | 17°27 | 12°30 | S 14 |
| M 15 | 13 33 38 | 25°17'36 | 8°V 4 | 5° 2 | 12°24 | 26°46 | 22°47 | 5°50 | 9°54 | 2°16 | 13° 3 | 22°51 | 24°21 | 17°34 | 12°33 | M 15 |
| T 16 | 13 37 35 | 26°16'42 | 23° 2 | 6°40 | 13° 6 | 26°36 | 22°41 | 5°46 | 9°57 | 2°14 | 13° 5 | 22°48 | 24°18 | 17°41 | 12°36 | T 16 |
| W 17 | 13 41 31 | 27°15'46 | 7♌48 | 8°20 | 13°48 | 26°26 | 22°35 | 5°42 | 10° 0 | 2°13 | 13° 6 | 22°46 | 24°15 | 17°47 | 12°39 | W 17 |
| T 18 | 13 45 28 | 28°14'48 | 22°16 | 10° 1 | 14°32 | 26°15 | 22°28 | 5°37 | 10° 4 | 2°11 | 13° 7 | 22°D46 | 24°12 | 17°54 | 12°43 | T 18 |
| F 19 | 13 49 24 | 29°13'48 | 6♌19 | 11°44 | 15°16 | 26° 4 | 22°22 | 5°33 | 10° 7 | 2°10 | 13° 9 | 22°46 | 24° 9 | 18° 1 | 12°46 | F 19 |
| S 20 | 13 53 21 | 0♌12'46 | 19°57 | 13°28 | 16° 2 | 25°51 | 22°16 | 5°29 | 10°10 | 2° 8 | 13°10 | 22°47 | 24° 5 | 18° 7 | 12°49 | S 20 |
| S 21 | 13 57 18 | 1°11'41 | 3♌ 9 | 15°14 | 16°48 | 25°38 | 22° 9 | 5°25 | 10°14 | 2° 7 | 13°11 | 22°49 | 24° 2 | 18°14 | 12°52 | S 21 |
| M 22 | 14 1 14 | 2°10'35 | 15°57 | 17° 1 | 17°35 | 25°24 | 22° 2 | 5°21 | 10°17 | 2° 6 | 13°13 | 22°50 | 23°59 | 18°21 | 12°55 | M 22 |
| T 23 | 14 5 11 | 3° 9'26 | 28°25 | 18°50 | 18°23 | 25°10 | 21°55 | 5°17 | 10°20 | 2° 4 | 13°14 | 22°R51 | 23°56 | 18°28 | 12°58 | T 23 |
| W 24 | 14 9 7 | 4° 8'15 | 10♌38 | 20°40 | 19°12 | 24°54 | 21°48 | 5°13 | 10°23 | 2° 3 | 13°16 | 22°51 | 23°53 | 18°34 | 13° 1 | W 24 |
| T 25 | 14 13 4 | 5° 7'01 | 22°38 | 22°32 | 20° 1 | 24°39 | 21°41 | 5° 9 | 10°26 | 2° 1 | 13°17 | 22°50 | 23°50 | 18°41 | 13° 4 | T 25 |
| F 26 | 14 17 0 | 6° 5'45 | 4♏32 | 24°26 | 20°51 | 24°22 | 21°34 | 5° 6 | 10°30 | 2° 0 | 13°18 | 22°48 | 23°46 | 18°48 | 13° 7 | F 26 |
| S 27 | 14 20 57 | 7° 4'27 | 16°24 | 26°21 | 21°42 | 24° 5 | 21°27 | 5° 2 | 10°33 | 1°59 | 13°20 | 22°46 | 23°43 | 18°54 | 13°10 | S 27 |
| S 28 | 14 24 53 | 8° 3'07 | 28°16 | 28°17 | 22°34 | 23°47 | 21°20 | 4°59 | 10°36 | 1°58 | 13°21 | 22°44 | 23°40 | 19° 1 | 13°12 | S 28 |
| M 29 | 14 28 50 | 9° 1'45 | 10♌12 | 0♌15 | 23°26 | 23°29 | 21°13 | 4°55 | 10°39 | 1°56 | 13°22 | 22°42 | 23°37 | 19° 8 | 13°15 | M 29 |
| T 30 | 14 32 47 | 10♌ 0'21 | 22♌16 | 2♌15 | 24♌18 | 23♌10 | 21♌ 5 | 4♌52 | 10°V42 | 1♌55 | 13♌24 | 22♌40 | 23♌34 | | | |

ASTRODIENST EPHEMERIS for the year 2599
geocentric

MAY 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|-------|--------|--------|--------|-------|--------|-------|--------|--------|-------|-------|-------|------|---|---|---|---|-----|
| W 1 | 14 36 43 | 10♈58'55 | 4♎28 | 4♈16 | 25♋12 | 22°R51 | 20°R58 | 4°R48 | 10♏45 | 1°R54 | 13♈25 | 22°R39 | 23♈31 | 19♎21 | 13♋21 | W 1 | | | | | |
| T 2 | 14 40 40 | 11°57'27 | 16°50 | 6°19 | 26° 6 | 22♎31 | 20♎51 | 4♎45 | 10°48 | 1♎53 | 13°26 | 22°D38 | 23°27 | 19°28 | 13°23 | T 2 | | | | | |
| F 3 | 14 44 36 | 12°55'57 | 29°25 | 8°22 | 27° 0 | 22°11 | 20°43 | 4°42 | 10°51 | 1°51 | 13°28 | 22♈38 | 23°24 | 19°35 | 13°26 | F 3 | | | | | |
| S 4 | 14 48 33 | 13°54'26 | 12♌11 | 10°27 | 27°55 | 21°51 | 20°36 | 4°39 | 10°54 | 1°50 | 13°29 | 22°39 | 23°21 | 19°41 | 13°28 | S 4 | | | | | |
| S 5 | 14 52 29 | 14°52'52 | 25°11 | 12°34 | 28°51 | 21°30 | 20°28 | 4°36 | 10°57 | 1°49 | 13°31 | 22°39 | 23°18 | 19°48 | 13°31 | S 5 | | | | | |
| M 6 | 14 56 26 | 15°51'18 | 8♌25 | 14°41 | 29°47 | 21° 8 | 20°20 | 4°33 | 11° 0 | 1°48 | 13°32 | 22°40 | 23°15 | 19°55 | 13°33 | M 6 | | | | | |
| T 7 | 15 0 22 | 16°49'41 | 21°54 | 16°49 | 0♏43 | 20°47 | 20°13 | 4°30 | 11° 3 | 1°47 | 13°33 | 22°41 | 23°11 | 20° 2 | 13°36 | T 7 | | | | | |
| W 8 | 15 4 19 | 17°48'03 | 5♌37 | 18°58 | 1°40 | 20°25 | 20° 5 | 4°27 | 11° 6 | 1°46 | 13°35 | 22°41 | 23° 8 | 20° 8 | 13°38 | W 8 | | | | | |
| T 9 | 15 8 16 | 18°46'24 | 19°35 | 21° 7 | 2°38 | 20° 3 | 19°57 | 4°24 | 11° 9 | 1°45 | 13°36 | 22°R41 | 23° 5 | 20°15 | 13°40 | T 9 | | | | | |
| F 10 | 15 12 12 | 19°44'43 | 3♋46 | 23°16 | 3°36 | 19°41 | 19°50 | 4°22 | 11°12 | 1°44 | 13°37 | 22°41 | 23° 2 | 20°22 | 13°42 | F 10 | | | | | |
| S 11 | 15 16 9 | 20°43'00 | 18° 9 | 25°25 | 4°34 | 19°19 | 19°42 | 4°19 | 11°15 | 1°43 | 13°39 | 22°41 | 22°59 | 20°28 | 13°44 | S 11 | | | | | |
| S 12 | 15 20 5 | 21°41'16 | 2♏40 | 27°34 | 5°33 | 18°56 | 19°35 | 4°17 | 11°18 | 1°42 | 13°40 | 22°41 | 22°56 | 20°35 | 13°47 | S 12 | | | | | |
| M13 | 15 24 2 | 22°39'31 | 17°14 | 29°43 | 6°32 | 18°34 | 19°27 | 4°14 | 11°20 | 1°41 | 13°42 | 22°D41 | 22°52 | 20°42 | 13°49 | M13 | | | | | |
| T 14 | 15 27 58 | 23°37'44 | 1♌47 | 1♎50 | 7°31 | 18°11 | 19°19 | 4°12 | 11°23 | 1°40 | 13°43 | 22°41 | 22°49 | 20°48 | 13°51 | T 14 | | | | | |
| W15 | 15 31 55 | 24°35'55 | 16°12 | 3°56 | 8°31 | 17°49 | 19°12 | 4°10 | 11°26 | 1°39 | 13°44 | 22°R41 | 22°46 | 20°55 | 13°53 | W15 | | | | | |
| T 16 | 15 35 51 | 25°34'05 | 0♎24 | 6° 1 | 9°31 | 17°27 | 19° 4 | 4° 8 | 11°28 | 1°38 | 13°46 | 22°41 | 22°43 | 21° 2 | 13°55 | T 16 | | | | | |
| F 17 | 15 39 48 | 26°32'13 | 14°18 | 8° 4 | 10°31 | 17° 5 | 18°56 | 4° 6 | 11°31 | 1°38 | 13°47 | 22°40 | 22°40 | 21° 9 | 13°56 | F 17 | | | | | |
| S 18 | 15 43 45 | 27°30'20 | 27°52 | 10° 5 | 11°32 | 16°43 | 18°49 | 4° 4 | 11°34 | 1°37 | 13°48 | 22°40 | 22°37 | 21°15 | 13°58 | S 18 | | | | | |
| S 19 | 15 47 41 | 28°28'25 | 11♌ 4 | 12° 3 | 12°33 | 16°22 | 18°41 | 4° 2 | 11°36 | 1°36 | 13°50 | 22°39 | 22°33 | 21°22 | 14° 0 | S 19 | | | | | |
| M20 | 15 51 38 | 29°26'28 | 23°55 | 13°59 | 13°34 | 16° 0 | 18°34 | 4° 0 | 11°39 | 1°35 | 13°51 | 22°39 | 22°30 | 21°29 | 14° 2 | M20 | | | | | |
| T 21 | 15 55 34 | 0♎24'29 | 6♎26 | 15°53 | 14°36 | 15°40 | 18°27 | 3°59 | 11°41 | 1°35 | 13°52 | 22°38 | 22°27 | 21°35 | 14° 3 | T 21 | | | | | |
| W22 | 15 59 31 | 1°22'29 | 18°41 | 17°43 | 15°38 | 15°19 | 18°19 | 3°57 | 11°44 | 1°34 | 13°54 | 22°37 | 22°24 | 21°42 | 14° 5 | W22 | | | | | |
| T 23 | 16 3 27 | 2°20'26 | 0♎44 | 19°31 | 16°40 | 14°59 | 18°12 | 3°56 | 11°46 | 1°33 | 13°55 | 22°D37 | 22°21 | 21°49 | 14° 6 | T 23 | | | | | |
| F 24 | 16 7 24 | 3°18'22 | 12°39 | 21°15 | 17°43 | 14°39 | 18° 5 | 3°54 | 11°49 | 1°33 | 13°56 | 22°37 | 22°17 | 21°56 | 14° 8 | F 24 | | | | | |
| S 25 | 16 11 20 | 4°16'16 | 24°31 | 22°56 | 18°45 | 14°20 | 17°58 | 3°53 | 11°51 | 1°32 | 13°58 | 22°38 | 22°14 | 22° 2 | 14° 9 | S 25 | | | | | |
| S 26 | 16 15 17 | 5°14'08 | 6♎25 | 24°34 | 19°48 | 14° 2 | 17°51 | 3°52 | 11°54 | 1°32 | 13°59 | 22°39 | 22°11 | 22° 9 | 14°11 | S 26 | | | | | |
| M27 | 16 19 14 | 6°11'59 | 18°24 | 26° 9 | 20°51 | 13°44 | 17°44 | 3°51 | 11°56 | 1°31 | 14° 0 | 22°40 | 22° 8 | 22°16 | 14°12 | M27 | | | | | |
| T 28 | 16 23 10 | 7° 9'48 | 0♎32 | 27°40 | 21°55 | 13°26 | 17°37 | 3°50 | 11°58 | 1°31 | 14° 1 | 22°41 | 22° 5 | 22°22 | 14°13 | T 28 | | | | | |
| W29 | 16 27 7 | 8° 7'35 | 12°54 | 29° 8 | 22°58 | 13°10 | 17°30 | 3°50 | 12° 0 | 1°30 | 14° 3 | 22°42 | 22° 2 | 22°29 | 14°14 | W29 | | | | | |
| T 30 | 16 31 3 | 9° 5'21 | 25°30 | 0♌32 | 24° 2 | 12°53 | 17°23 | 3°49 | 12° 3 | 1°30 | 14° 4 | 22°R42 | 21°58 | 22°36 | 14°15 | T 30 | | | | | |
| F 31 | 16 35 0 | 10♎ 3'06 | 8♌22 | 1♌52 | 25°♏ 6 | 12♎38 | 17♎17 | 3♎48 | 12°♏ 5 | 1♎29 | 14°♎ 5 | 22♈42 | 21♈55 | 22♎42 | 14♋17 | F 31 | | | | | |

Delta T = 20m09s

JUNE 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | Day |
|------|----------|----------|-------|--------|-------|--------|--------|-------|--------|-------|--------|--------|-------|-------|--------|------|---|---|---|---|-----|
| S 1 | 16 38 56 | 11♎ 0'49 | 21♌31 | 3♌ 9 | 26♏11 | 12°R23 | 17°R10 | 3°R48 | 12♏ 7 | 1°R29 | 14♎ 7 | 22°R40 | 21♈52 | 22♎49 | 14♋18 | S 1 | | | | | |
| S 2 | 16 42 53 | 11°58'31 | 4♌56 | 4°23 | 27°15 | 12♎ 9 | 17♎ 4 | 3♎47 | 12° 9 | 1♎29 | 14° 8 | 22♈38 | 21°49 | 22°56 | 14°19 | S 2 | | | | | |
| M 3 | 16 46 50 | 12°56'12 | 18°34 | 5°32 | 28°20 | 11°56 | 16°57 | 3°47 | 12°11 | 1°28 | 14° 9 | 22°35 | 21°46 | 23° 3 | 14°19 | M 3 | | | | | |
| T 4 | 16 50 46 | 13°53'52 | 2♌25 | 6°38 | 29°25 | 11°43 | 16°51 | 3°47 | 12°13 | 1°28 | 14°10 | 22°32 | 21°43 | 23° 9 | 14°20 | T 4 | | | | | |
| W 5 | 16 54 43 | 14°51'31 | 16°25 | 7°40 | 0♈30 | 11°31 | 16°45 | 3°D47 | 12°15 | 1°28 | 14°11 | 22°30 | 21°39 | 23°16 | 14°21 | W 5 | | | | | |
| T 6 | 16 58 39 | 15°49'08 | 0♋32 | 8°38 | 1°35 | 11°20 | 16°39 | 3°47 | 12°17 | 1°28 | 14°13 | 22°28 | 21°36 | 23°23 | 14°22 | T 6 | | | | | |
| F 7 | 17 2 36 | 16°46'45 | 14°43 | 9°32 | 2°40 | 11°10 | 16°33 | 3°47 | 12°19 | 1°28 | 14°14 | 22°D27 | 21°33 | 23°29 | 14°22 | F 7 | | | | | |
| S 8 | 17 6 32 | 17°44'21 | 28°56 | 10°22 | 3°46 | 11° 0 | 16°28 | 3°47 | 12°21 | 1°27 | 14°15 | 22°28 | 21°30 | 23°36 | 14°23 | S 8 | | | | | |
| S 9 | 17 10 29 | 18°41'57 | 13♏ 9 | 11° 8 | 4°52 | 10°51 | 16°22 | 3°48 | 12°23 | 1°27 | 14°16 | 22°29 | 21°27 | 23°43 | 14°24 | S 9 | | | | | |
| M10 | 17 14 25 | 19°39'31 | 27°19 | 11°50 | 5°57 | 10°44 | 16°17 | 3°48 | 12°25 | 1°27 | 14°17 | 22°30 | 21°23 | 23°50 | 14°24 | M10 | | | | | |
| T 11 | 17 18 22 | 20°37'05 | 11♌25 | 12°27 | 7° 4 | 10°36 | 16°11 | 3°49 | 12°26 | 1°27 | 14°19 | 22°32 | 21°20 | 23°56 | 14°24 | T 11 | | | | | |
| W12 | 17 22 19 | 21°34'37 | 25°23 | 13° 0 | 8°10 | 10°30 | 16° 6 | 3°49 | 12°28 | 1°D27 | 14°20 | 22°R32 | 21°17 | 24° 3 | 14°25 | W12 | | | | | |
| T 13 | 17 26 15 | 22°32'09 | 9♎11 | 13°29 | 9°16 | 10°25 | 16° 1 | 3°50 | 12°30 | 1°27 | 14°21 | 22°31 | 21°14 | 24°10 | 14°25 | T 13 | | | | | |
| F 14 | 17 30 12 | 23°29'41 | 22°45 | 13°53 | 10°23 | 10°20 | 15°56 | 3°51 | 12°31 | 1°27 | 14°22 | 22°28 | 21°11 | 24°16 | 14°25 | F 14 | | | | | |
| S 15 | 17 34 8 | 24°27'11 | 6♌ 5 | 14°13 | 11°29 | 10°16 | 15°52 | 3°52 | 12°33 | 1°27 | 14°23 | 22°24 | 21° 8 | 24°23 | 14°26 | S 15 | | | | | |
| S 16 | 17 38 5 | 25°24'40 | 19° 8 | 14°28 | 12°36 | 10°13 | 15°47 | 3°53 | 12°34 | 1°27 | 14°24 | 22°19 | 21° 4 | 24°30 | 14°26 | S 16 | | | | | |
| M17 | 17 42 1 | 26°22'08 | 1♎53 | 14°39 | 13°43 | 10°11 | 15°43 | 3°54 | 12°36 | 1°28 | 14°25 | 22°14 | 21° 1 | 24°36 | 14°R26 | M17 | | | | | |
| T 18 | 17 45 58 | 27°19'35 | 14°22 | 14°45 | 14°50 | 10°10 | 15°39 | 3°55 | 12°37 | 1°28 | 14°26 | 22° 8 | 20°58 | 24°43 | 14°26 | T 18 | | | | | |
| W19 | 17 49 54 | 28°17'01 | 26°37 | 14°R46 | 15°57 | 10°D 9 | 15°35 | 3°57 | 12°39 | 1°28 | 14°27 | 22° 3 | 20°55 | 24°50 | 14°26 | W19 | | | | | |
| T 20 | 17 53 51 | 29°14'26 | 8♎39 | 14°43 | 17° 4 | 10° 9 | 15°31 | 3°58 | 12°40 | 1°28 | 14°28 | 22° 0 | 20°52 | 24°57 | 14°25 | T 20 | | | | | |
| F 21 | 17 57 48 | 0♌11'50 | 20°34 | 14°36 | 18°12 | 10°10 | 15°27 | 4° 0 | 12°41 | 1°28 | 14°29 | 21°58 | 20°49 | 25° 3 | 14°25 | F 21 | | | | | |
| S 22 | 18 1 44 | 1° 9'13 | 2♎26 | 14°24 | 19°19 | 10°12 | 15°23 | 4° 1 | 12°43 | 1°29 | 14°30 | 21°D57 | 20°45 | 25°10 | 14°25 | S 22 | | | | | |
| S 23 | 18 5 41 | 2° 6'35 | 14°19 | 14° 8 | 20°27 | 10°15 | 15°20 | 4° 3 | 12°44 | 1°29 | 14°31 | 21°58 | 20°42 | 25°17 | 14°25 | S 23 | | | | | |
| M24 | 18 9 37 | 3° 3'56 | 26°19 | 13°48 | 21°34 | 10°18 | 15°17 | 4° 5 | 12°45 | 1°30 | 14°32 | 21°59 | 20°39 | 25°23 | 14°24 | M24 | | | | | |
| T 25 | 18 13 34 | 4° 1'16 | 8♎30 | 13°25 | 22°42 | 10°22 | 15°14 | 4° 7 | 12°46 | 1°30 | 14°33 | 22° 1 | 20°36 | 25°30 | 14°24 | T 25 | | | | | |
| W26 | 18 17 30 | 4°58'35 | 20°57 | 12°59 | 23°50 | 10°27 | 15°11 | 4° 9 | 12°47 | 1°30 | 14°34 | 22°R 2 | 20°33 | 25°37 | 14°24 | W26 | | | | | |
| T 27 | 18 21 27 | 5°55'53 | 3♌43 | 12°30 | 24°58 | 10°33 | 15° 8 | 4°11 | 12°48 | 1°31 | 14°35 | 22° 1 | 20°29 | 25°43 | 14°23 | T 27 | | | | | |
| F 28 | 18 25 23 | 6°53'11 | 16°50 | 11°59 | 26° 6 | 10°39 | 15° 5 | 4°13 | 12°49 | 1°31 | 14°36 | 21°58 | 20°26 | 25°50 | 14°22 | F 28 | | | | | |
| S 29 | 18 29 20 | 7°50'28 | 0♌19 | 11°26 | 27°14 | 10°46 | 15° 3 | 4°16 | 12°50 | 1°32 | 14°37 | 21°54 | 20°23 | 25°57 | 14°22 | S 29 | | | | | |
| S 30 | 18 33 17 | 8♌47'45 | 14♌ 8 | 10♌52 | 28♎23 | 10♎54 | 15♎ 1 | 4♎18 | 12°♏51 | 1♎32 | 14°♎38 | 21♈48 | 20♎20 | 26♎ 3 | 14♋21 | S 30 | | | | | |

Delta T = 20m10s

ASTRODIENST EPHEMERIS for the year 2599
geocentric

JULY 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------------------|------------------------|---------------------|-----------------------|-----------------------|---------------------|--------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|-----|
| M 1 | 18 37 13 | 9 ^h 45'01" | 28 ^h 14' | 10°R18 | 29 ^h 31' | 11 ^h 11' 3 | 14°R59 | 4 ^h 21' | 12 ^h 52' | 1 ^h 33' | 14 ^h 39' | 21°R40 | 20 ^h 17' | 26 ^h 10' | 14°R20 | M 1 | |
| T 2 | 18 41 10 | 10°42'17" | 12 ^h 32' | 9 ^h 43' | 0 ^h 11'40" | 11°12 | 14 ^h 57' | 4°23 | 12°53 | 1°34 | 14°40 | 21 ^h 33' | 20°14 | 26°17 | 14 ^h 19' | T 2 | |
| W 3 | 18 45 6 | 11°39'33" | 26°57 | 9° 9 | 1°48 | 11°22 | 14°55 | 4°26 | 12°53 | 1°34 | 14°40 | 21°26 | 20°10 | 26°24 | 14°19 | W 3 | |
| T 4 | 18 49 3 | 12°36'48" | 11 ^h 11'22" | 8°36 | 2°57 | 11°32 | 14°54 | 4°29 | 12°54 | 1°35 | 14°41 | 21°21 | 20° 7 | 26°30 | 14°18 | T 4 | |
| F 5 | 18 52 59 | 13°34'03" | 25°44 | 8° 5 | 4° 6 | 11°44 | 14°52 | 4°32 | 12°55 | 1°36 | 14°42 | 21°17 | 20° 4 | 26°37 | 14°17 | F 5 | |
| S 6 | 18 56 56 | 14°31'18" | 9 ^h 58' | 7°36 | 5°15 | 11°55 | 14°51 | 4°35 | 12°55 | 1°37 | 14°43 | 21°D16 | 20° 1 | 26°44 | 14°16 | S 6 | |
| S 7 | 19 0 52 | 15°28'33" | 24° 4 | 7°10 | 6°24 | 12° 8 | 14°50 | 4°38 | 12°56 | 1°37 | 14°44 | 21°16 | 19°58 | 26°50 | 14°14 | S 7 | |
| M 8 | 19 4 49 | 16°25'48" | 7 ^h 59' | 6°47 | 7°33 | 12°21 | 14°49 | 4°41 | 12°56 | 1°38 | 14°44 | 21°17 | 19°55 | 26°57 | 14°13 | M 8 | |
| T 9 | 19 8 46 | 17°23'04" | 21°43 | 6°28 | 8°42 | 12°35 | 14°49 | 4°44 | 12°57 | 1°39 | 14°45 | 21°R17 | 19°51 | 27° 4 | 14°12 | T 9 | |
| W10 | 19 12 42 | 18°20'19" | 5 ^h 11'17" | 6°13 | 9°51 | 12°49 | 14°48 | 4°48 | 12°57 | 1°40 | 14°46 | 21°17 | 19°48 | 27°10 | 14°11 | W10 | |
| T 11 | 19 16 39 | 19°17'35" | 18°40 | 6° 2 | 11° 1 | 13° 4 | 14°48 | 4°51 | 12°58 | 1°41 | 14°47 | 21°14 | 19°45 | 27°17 | 14°10 | T 11 | |
| F 12 | 19 20 35 | 20°14'50" | 1 ^h 52' | 5°56 | 12°10 | 13°19 | 14°D48 | 4°55 | 12°58 | 1°42 | 14°47 | 21° 8 | 19°42 | 27°24 | 14° 8 | F 12 | |
| S 13 | 19 24 32 | 21°12'06" | 14°51 | 5°D54 | 13°20 | 13°36 | 14°48 | 4°58 | 12°58 | 1°43 | 14°48 | 21° 0 | 19°39 | 27°31 | 14° 7 | S 13 | |
| S 14 | 19 28 28 | 22° 9'21" | 27°38 | 5°57 | 14°29 | 13°52 | 14°48 | 5° 2 | 12°58 | 1°44 | 14°49 | 20°50 | 19°35 | 27°37 | 14° 5 | S 14 | |
| M15 | 19 32 25 | 23° 6'37" | 10 ^h 12' | 6° 5 | 15°39 | 14° 9 | 14°49 | 5° 6 | 12°59 | 1°45 | 14°49 | 20°39 | 19°32 | 27°44 | 14° 4 | M15 | |
| T 16 | 19 36 22 | 24° 3'52" | 22°34 | 6°18 | 16°49 | 14°27 | 14°50 | 5°10 | 12°59 | 1°46 | 14°50 | 20°28 | 19°29 | 27°51 | 14° 2 | T 16 | |
| W17 | 19 40 18 | 25° 1'07" | 4 ^h 43' | 6°37 | 17°58 | 14°45 | 14°50 | 5°14 | 12°59 | 1°47 | 14°50 | 20°18 | 19°26 | 27°57 | 14° 1 | W17 | |
| T 18 | 19 44 15 | 25°58'22" | 16°43 | 7° 0 | 19° 8 | 15° 4 | 14°51 | 5°18 | 12°R59 | 1°48 | 14°51 | 20°10 | 19°23 | 28° 4 | 13°59 | T 18 | |
| F 19 | 19 48 11 | 26°55'37" | 28°35 | 7°29 | 20°18 | 15°24 | 14°53 | 5°22 | 12°59 | 1°49 | 14°51 | 20° 4 | 19°20 | 28°11 | 13°57 | F 19 | |
| S 20 | 19 52 8 | 27°52'51" | 10 ^h 25' | 8° 2 | 21°28 | 15°43 | 14°54 | 5°26 | 12°59 | 1°50 | 14°52 | 20° 0 | 19°16 | 28°17 | 13°55 | S 20 | |
| S 21 | 19 56 4 | 28°50'06" | 22°17 | 8°41 | 22°38 | 16° 4 | 14°56 | 5°30 | 12°58 | 1°51 | 14°53 | 19°59 | 19°13 | 28°24 | 13°53 | S 21 | |
| M22 | 20 0 1 | 29°47'20" | 4 ^h 15' | 9°25 | 23°48 | 16°25 | 14°57 | 5°35 | 12°58 | 1°53 | 14°53 | 19°D59 | 19°10 | 28°31 | 13°52 | M22 | |
| T 23 | 20 3 57 | 0 ^h 44'35" | 16°25 | 10°13 | 24°59 | 16°46 | 14°59 | 5°39 | 12°58 | 1°54 | 14°53 | 19°R59 | 19° 7 | 28°37 | 13°50 | T 23 | |
| W24 | 20 7 54 | 1°41'49" | 28°53 | 11° 7 | 26° 9 | 17° 8 | 15° 1 | 5°44 | 12°58 | 1°55 | 14°54 | 19°59 | 19° 4 | 28°44 | 13°48 | W24 | |
| T 25 | 20 11 51 | 2°39'04" | 11 ^h 14'22" | 12° 6 | 27°19 | 17°30 | 15° 4 | 5°48 | 12°57 | 1°57 | 14°54 | 19°57 | 19° 1 | 28°51 | 13°46 | T 25 | |
| F 26 | 20 15 47 | 3°36'19" | 24°56 | 13° 9 | 28°30 | 17°52 | 15° 6 | 5°53 | 12°57 | 1°58 | 14°55 | 19°53 | 18°57 | 28°58 | 13°44 | F 26 | |
| S 27 | 20 19 44 | 4°33'34" | 8 ^h 37' | 14°17 | 29°40 | 18°16 | 15° 9 | 5°58 | 12°57 | 1°59 | 14°55 | 19°46 | 18°54 | 29° 4 | 13°42 | S 27 | |
| S 28 | 20 23 40 | 5°30'49" | 22°44 | 15°30 | 0 ^h 51' | 18°39 | 15°11 | 6° 2 | 12°56 | 2° 1 | 14°56 | 19°37 | 18°51 | 29°11 | 13°39 | S 28 | |
| M29 | 20 27 37 | 6°28'04" | 7 ^h 32' | 16°47 | 2° 1 | 19° 3 | 15°14 | 6° 7 | 12°56 | 2° 2 | 14°56 | 19°27 | 18°48 | 29°18 | 13°37 | M29 | |
| T 30 | 20 31 33 | 7°25'20" | 21°55 | 18° 9 | 3°12 | 19°27 | 15°17 | 6°12 | 12°55 | 2° 3 | 14°56 | 19°16 | 18°45 | 29°24 | 13°35 | T 30 | |
| W31 | 20 35 30 | 8 ^h 22'37" | 6 ^h 45' | 19 ^h 36' | 4 ^h 23' | 19 ^h 15' | 15 ^h 21' | 6 ^h 17' | 12 ^h 55' | 2 ^h 5' | 14 ^h 57' | 19 ^h 6' | 18 ^h 41' | 29 ^h 31' | 13 ^h 33' | W31 | |

Delta T = 20m10s

AUGUST 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|-----------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|
| T 1 | 20 39 26 | 9 ^h 19'54" | 21 ^h 34' | 21 ^h 06' | 5 ^h 34' | 20 ^h 17' | 15 ^h 24' | 6 ^h 22' | 12°R54 | 2 ^h 6 | 14 ^h 57' | 18°R58 | 18 ^h 38' | 29 ^h 38' | 13°R30 | T 1 |
| F 2 | 20 43 23 | 10°17'11" | 6 ^h 14' | 22°41 | 6°45 | 20°43 | 15°28 | 6°27 | 12°53 | 2° 8 | 14°57 | 18 ^h 52' | 18°35 | 29°44 | 13 ^h 28' | F 2 |
| S 3 | 20 47 20 | 11°14'30" | 20°40 | 24°20 | 7°55 | 21° 9 | 15°32 | 6°33 | 12°52 | 2° 9 | 14°57 | 18°49 | 18°32 | 29°51 | 13°26 | S 3 |
| S 4 | 20 51 16 | 12°11'49" | 4 ^h 49' | 26° 2 | 9° 7 | 21°35 | 15°35 | 6°38 | 12°52 | 2°11 | 14°58 | 18°48 | 18°29 | 29°58 | 13°23 | S 4 |
| M 5 | 20 55 13 | 13° 9'10" | 18°40 | 27°48 | 10°18 | 22° 1 | 15°40 | 6°43 | 12°51 | 2°13 | 14°58 | 18°48 | 18°26 | 0 ^h 4 | 13°21 | M 5 |
| T 6 | 20 59 9 | 14° 6'31" | 2 ^h 11'14" | 29°38 | 11°29 | 22°28 | 15°44 | 6°49 | 12°50 | 2°14 | 14°58 | 18°48 | 18°22 | 0°11 | 13°18 | T 6 |
| W 7 | 21 3 6 | 15° 3'53" | 15°32 | 1 ^h 30' | 12°40 | 22°56 | 15°48 | 6°54 | 12°49 | 2°16 | 14°58 | 18°46 | 18°19 | 0°18 | 13°16 | W 7 |
| T 8 | 21 7 2 | 16° 1'17" | 28°36 | 3°25 | 13°51 | 23°23 | 15°53 | 7° 0 | 12°48 | 2°17 | 14°58 | 18°42 | 18°16 | 0°25 | 13°13 | T 8 |
| F 9 | 21 10 59 | 16°58'41" | 11 ^h 28' | 5°22 | 15° 3 | 23°51 | 15°58 | 7° 5 | 12°47 | 2°19 | 14°58 | 18°35 | 18°13 | 0°31 | 13°11 | F 9 |
| S 10 | 21 14 55 | 17°56'06" | 24° 8 | 7°22 | 16°14 | 24°20 | 16° 2 | 7°11 | 12°46 | 2°21 | 14°58 | 18°25 | 18°10 | 0°38 | 13° 8 | S 10 |
| S 11 | 21 18 52 | 18°53'33" | 6 ^h 39' | 9°23 | 17°26 | 24°49 | 16° 7 | 7°17 | 12°45 | 2°22 | 14°59 | 18°13 | 18° 7 | 0°45 | 13° 6 | S 11 |
| M12 | 21 22 49 | 19°51'00" | 18°59 | 11°26 | 18°37 | 25°18 | 16°13 | 7°23 | 12°44 | 2°24 | 14°59 | 17°59 | 18° 3 | 0°51 | 13° 3 | M12 |
| T 13 | 21 26 45 | 20°48'27" | 1 ^h 9' | 13°30 | 19°49 | 25°47 | 16°18 | 7°28 | 12°43 | 2°26 | 14°59 | 17°46 | 18° 0 | 0°58 | 13° 0 | T 13 |
| W14 | 21 30 42 | 21°45'56" | 13°11 | 15°34 | 21° 0 | 26°17 | 16°24 | 7°34 | 12°41 | 2°28 | 14°R59 | 17°33 | 17°57 | 1° 5 | 12°57 | W14 |
| T 15 | 21 34 38 | 22°43'25" | 25° 6 | 17°39 | 22°12 | 26°47 | 16°29 | 7°40 | 12°40 | 2°29 | 14°59 | 17°22 | 17°54 | 1°11 | 12°55 | T 15 |
| F 16 | 21 38 35 | 23°40'56" | 6 ^h 56' | 19°43 | 23°24 | 27°17 | 16°35 | 7°46 | 12°39 | 2°31 | 14°59 | 17°14 | 17°51 | 1°18 | 12°52 | F 16 |
| S 17 | 21 42 31 | 24°38'27" | 18°43 | 21°48 | 24°36 | 27°47 | 16°41 | 7°52 | 12°38 | 2°33 | 14°59 | 17° 9 | 17°47 | 1°25 | 12°49 | S 17 |
| S 18 | 21 46 28 | 25°35'58" | 0 ^h 33' | 23°52 | 25°48 | 28°18 | 16°47 | 7°59 | 12°36 | 2°35 | 14°58 | 17° 6 | 17°44 | 1°31 | 12°46 | S 18 |
| M19 | 21 50 24 | 26°33'31" | 12°30 | 25°56 | 27° 0 | 28°50 | 16°53 | 8° 5 | 12°35 | 2°37 | 14°58 | 17°D 5 | 17°41 | 1°38 | 12°44 | M19 |
| T 20 | 21 54 21 | 27°31'04" | 24°38 | 27°59 | 28°12 | 29°21 | 17° 0 | 8°11 | 12°33 | 2°39 | 14°58 | 17°R 5 | 17°38 | 1°45 | 12°41 | T 20 |
| W21 | 21 58 18 | 28°28'39" | 7 ^h 3' | 0 ^h 10' | 29°24 | 29°53 | 17° 6 | 8°17 | 12°32 | 2°41 | 14°58 | 17° 5 | 17°35 | 1°51 | 12°38 | W21 |
| T 22 | 22 2 14 | 29°26'14" | 19°50 | 2° 1 | 0 ^h 36' | 0 ^h 25' | 17°13 | 8°24 | 12°30 | 2°43 | 14°58 | 17° 4 | 17°32 | 1°58 | 12°35 | T 22 |
| F 23 | 22 6 11 | 0 ^h 23'50" | 3 ^h 3' | 4° 1 | 1°48 | 0°57 | 17°20 | 8°30 | 12°29 | 2°44 | 14°58 | 17° 0 | 17°28 | 2° 5 | 12°32 | F 23 |
| S 24 | 22 10 7 | 1°21'27" | 16°46 | 5°59 | 3° 0 | 1°30 | 17°27 | 8°36 | 12°27 | 2°46 | 14°58 | 16°54 | 17°25 | 2°12 | 12°29 | S 24 |
| S 25 | 22 14 4 | 2°19'05" | 0 ^h 58' | 7°56 | 4°13 | 2° 2 | 17°34 | 8°43 | 12°25 | 2°48 | 14°57 | 16°46 | 17°22 | 2°18 | 12°26 | S 25 |
| M26 | 22 18 0 | 3°16'44" | 15°36 | 9°52 | 5°25 | 2°35 | 17°41 | 8°49 | 12°24 | 2°50 | 14°57 | 16°36 | 17°19 | 2°25 | 12°23 | M26 |
| T 27 | 22 21 57 | 4°14'24" | 0 ^h 34' | 11°46 | 6°37 | 3° 9 | 17°48 | 8°56 | 12°22 | 2°52 | 14°57 | 16°26 | 17°16 | 2°32 | 12°20 | T 27 |
| W28 | 22 25 53 | 5°12'06" | 15°42 | 13°39 | 7°50 | 3°42 | 17°56 | 9° 2 | 12°20 | 2°54 | 14°57 | 16°16 | 17°12 | 2°38 | 12°17 | W28 |
| T 29 | 22 29 50 | 6° 9'48" | 0 ^h 51' | 15°31 | 9° 2 | 4°16 | 18° 3 | 9° 9 | 12°18 | 2°56 | 14°56 | 16° 8 | 17° 9 | 2°45 | 12°14 | T 29 |
| F 30 | 22 33 47 | 7° 7'32" | 15°51 | 17°21 | 10°15 | 4°50 | 18°11 | 9°16 | 12°17 | 2°58 | 14°56 | 16° 3 | 17° 6 | 2°52 | 12°11 | F 30 |
| S 31 | 22 37 43 | 8 ^h 5'18" | 0 ^h 34' | 19 ^h 10' | 11 ^h 27' | 5 ^h 24' | 18 ^h 19' | 9 ^h 23' | 12 ^h 15' | 3 ^h 0 | 14 ^h 56' | 16 ^h 8' | 17 ^h 3' | 2 ^h 58' | 12 ^h 8' | S 31 |

Delta T = 20m10s

ASTRODIENST EPHEMERIS for the year 2599
geocentric

SEPTEMBER 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|------|--------|--------|-------|------|--------|------|-----|
| S 1 | 22 41 40 | 9♎ 3'05 | 14♌54 | 20♏57 | 12♌40 | 5♊58 | 18♎27 | 9♎29 | 12°R13 | 3♎ 3 | 14°R55 | 15°D59 | 17♌ 0 | 3♎ 5 | 12°R 5 | S 1 | |
| M 2 | 22 45 36 | 10° 0'54 | 28°51 | 22°43 | 13°53 | 6°33 | 18°35 | 9°36 | 12°Y11 | 3° 5 | 14♌55 | 15♌59 | 16°57 | 3°12 | 12°K 2 | M 2 | |
| T 3 | 22 49 33 | 10°58'45 | 12♎25 | 24°28 | 15° 6 | 7° 8 | 18°43 | 9°43 | 12° 9 | 3° 7 | 14°55 | 16°R 0 | 16°53 | 3°18 | 11°59 | T 3 | |
| W 4 | 22 53 29 | 11°56'37 | 25°38 | 26°11 | 16°19 | 7°43 | 18°51 | 9°50 | 12° 7 | 3° 9 | 14°54 | 15°59 | 16°50 | 3°25 | 11°57 | W 4 | |
| T 5 | 22 57 26 | 12°54'32 | 8♌33 | 27°53 | 17°31 | 8°18 | 19° 0 | 9°57 | 12° 5 | 3°11 | 14°54 | 15°56 | 16°47 | 3°32 | 11°54 | T 5 | |
| F 6 | 23 1 22 | 13°52'28 | 21°12 | 29°34 | 18°44 | 8°54 | 19° 8 | 10° 4 | 12° 3 | 3°13 | 14°53 | 15°51 | 16°44 | 3°38 | 11°51 | F 6 | |
| S 7 | 23 5 19 | 14°50'26 | 3♌39 | 1♎13 | 19°57 | 9°30 | 19°17 | 10°11 | 12° 1 | 3°15 | 14°53 | 15°43 | 16°41 | 3°45 | 11°48 | S 7 | |
| S 8 | 23 9 16 | 15°48'25 | 15°55 | 2°51 | 21°10 | 10° 6 | 19°26 | 10°18 | 11°59 | 3°17 | 14°52 | 15°33 | 16°38 | 3°52 | 11°45 | S 8 | |
| M 9 | 23 13 12 | 16°46'26 | 28° 3 | 4°28 | 22°24 | 10°42 | 19°35 | 10°25 | 11°57 | 3°19 | 14°52 | 15°22 | 16°34 | 3°58 | 11°42 | M 9 | |
| T 10 | 23 17 9 | 17°44'29 | 10♎ 3 | 6° 3 | 23°37 | 11°18 | 19°44 | 10°32 | 11°55 | 3°22 | 14°51 | 15°11 | 16°31 | 4° 5 | 11°39 | T 10 | |
| W11 | 23 21 5 | 18°42'33 | 21°58 | 7°37 | 24°50 | 11°55 | 19°53 | 10°39 | 11°53 | 3°24 | 14°51 | 15° 1 | 16°28 | 4°12 | 11°36 | W11 | |
| T 12 | 23 25 2 | 19°40'39 | 3♎49 | 9°10 | 26° 3 | 12°32 | 20° 2 | 10°46 | 11°50 | 3°26 | 14°50 | 14°52 | 16°25 | 4°18 | 11°33 | T 12 | |
| F 13 | 23 28 58 | 20°38'46 | 15°37 | 10°42 | 27°17 | 13° 9 | 20°11 | 10°53 | 11°48 | 3°28 | 14°50 | 14°46 | 16°22 | 4°25 | 11°30 | F 13 | |
| S 14 | 23 32 55 | 21°36'55 | 27°25 | 12°12 | 28°30 | 13°46 | 20°21 | 11° 0 | 11°46 | 3°30 | 14°49 | 14°42 | 16°18 | 4°32 | 11°27 | S 14 | |
| S 15 | 23 36 51 | 22°35'05 | 9♎16 | 13°41 | 29°43 | 14°23 | 20°30 | 11° 7 | 11°44 | 3°32 | 14°48 | 14°D40 | 16°15 | 4°38 | 11°24 | S 15 | |
| M16 | 23 40 48 | 23°33'17 | 21°14 | 15° 9 | 0♏57 | 15° 1 | 20°40 | 11°15 | 11°42 | 3°35 | 14°48 | 14°40 | 16°12 | 4°45 | 11°21 | M16 | |
| T 17 | 23 44 44 | 24°31'31 | 3♎22 | 16°36 | 2°10 | 15°38 | 20°50 | 11°22 | 11°39 | 3°37 | 14°47 | 14°41 | 16° 9 | 4°52 | 11°18 | T 17 | |
| W18 | 23 48 41 | 25°29'46 | 15°46 | 18° 1 | 3°24 | 16°16 | 20°59 | 11°29 | 11°37 | 3°39 | 14°46 | 14°42 | 16° 6 | 4°59 | 11°15 | W18 | |
| T 19 | 23 52 38 | 26°28'03 | 28°30 | 19°25 | 4°37 | 16°54 | 21° 9 | 11°36 | 11°35 | 3°41 | 14°46 | 14°R43 | 16° 3 | 5° 5 | 11°12 | T 19 | |
| F 20 | 23 56 34 | 27°26'21 | 11♌38 | 20°48 | 5°51 | 17°32 | 21°19 | 11°44 | 11°32 | 3°43 | 14°45 | 14°42 | 15°59 | 5°12 | 11°10 | F 20 | |
| S 21 | 0 0 31 | 28°24'40 | 25°14 | 22° 9 | 7° 5 | 18°11 | 21°30 | 11°51 | 11°30 | 3°46 | 14°44 | 14°39 | 15°56 | 5°19 | 11° 7 | S 21 | |
| S 22 | 0 4 27 | 29°23'01 | 9♎20 | 23°29 | 8°18 | 18°49 | 21°40 | 11°58 | 11°28 | 3°48 | 14°44 | 14°34 | 15°53 | 5°25 | 11° 4 | S 22 | |
| M23 | 0 8 24 | 0♎21'24 | 23°53 | 24°47 | 9°32 | 19°28 | 21°50 | 12° 6 | 11°25 | 3°50 | 14°43 | 14°28 | 15°50 | 5°32 | 11° 1 | M23 | |
| T 24 | 0 12 10 | 1°19'48 | 8♎50 | 26° 4 | 10°46 | 20° 7 | 22° 0 | 12°13 | 11°23 | 3°52 | 14°42 | 14°22 | 15°47 | 5°39 | 10°58 | T 24 | |
| W25 | 0 16 17 | 2°18'13 | 24° 2 | 27°20 | 12° 0 | 20°46 | 22°11 | 12°20 | 11°21 | 3°55 | 14°41 | 14°15 | 15°44 | 5°45 | 10°56 | W25 | |
| T 26 | 0 20 13 | 3°16'41 | 9♎19 | 28°33 | 13°14 | 21°25 | 22°21 | 12°28 | 11°18 | 3°57 | 14°41 | 14°10 | 15°40 | 5°52 | 10°53 | T 26 | |
| F 27 | 0 24 10 | 4°15'10 | 24°31 | 29°45 | 14°28 | 22° 5 | 22°32 | 12°35 | 11°16 | 3°59 | 14°40 | 14° 7 | 15°37 | 5°59 | 10°50 | F 27 | |
| S 28 | 0 28 7 | 5°13'42 | 9♌27 | 0♎55 | 15°42 | 22°44 | 22°43 | 12°43 | 11°14 | 4° 1 | 14°39 | 14°D 6 | 15°34 | 6° 5 | 10°48 | S 28 | |
| S 29 | 0 32 3 | 6°12'15 | 24° 2 | 2° 4 | 16°56 | 23°24 | 22°54 | 12°50 | 11°11 | 4° 3 | 14°38 | 14° 6 | 15°31 | 6°12 | 10°45 | S 29 | |
| M30 | 0 36 0 | 7°10'51 | 8♎11 | 3♎10 | 18°10 | 24° 3 | 23°11 | 12°58 | 11°Y 9 | 4° 6 | 14°37 | 14° 7 | 15°28 | 6°19 | 10°43 | M30 | |

Delta T = 20m11s

OCTOBER 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|--------|------|--------|--------|-------|------|--------|------|
| T 1 | 0 39 56 | 8♎ 9'29 | 21♎53 | 4♎14 | 19♎24 | 24♎43 | 23♎15 | 13♎ 5 | 11°R 6 | 4♎ 8 | 14°R36 | 14♌ 9 | 15♌24 | 6♎25 | 10°R40 | T 1 |
| W 2 | 0 43 53 | 9° 8'09 | 5♌10 | 5°16 | 20°38 | 25°23 | 23°27 | 13°12 | 11°Y 4 | 4°10 | 14°36 | 14°R10 | 15°21 | 6°32 | 10°K37 | W 2 |
| T 3 | 0 47 49 | 10° 6'52 | 18° 5 | 6°15 | 21°52 | 26° 4 | 23°38 | 13°20 | 11° 2 | 4°12 | 14°35 | 14° 9 | 15°18 | 6°39 | 10°35 | T 3 |
| F 4 | 0 51 46 | 11° 5'36 | 0♌40 | 7°12 | 23° 6 | 26°44 | 23°49 | 13°27 | 10°59 | 4°15 | 14°34 | 14° 8 | 15°15 | 6°45 | 10°33 | F 4 |
| S 5 | 0 55 42 | 12° 4'23 | 12°59 | 8° 6 | 24°21 | 27°24 | 24° 0 | 13°35 | 10°57 | 4°17 | 14°33 | 14° 5 | 15°12 | 6°52 | 10°30 | S 5 |
| S 6 | 0 59 39 | 13° 3'12 | 25° 7 | 8°57 | 25°35 | 28° 5 | 24°11 | 13°42 | 10°54 | 4°19 | 14°32 | 14° 0 | 15° 9 | 6°59 | 10°28 | S 6 |
| M 7 | 1 3 36 | 14° 2'03 | 7♎ 7 | 9°44 | 26°49 | 28°46 | 24°23 | 13°50 | 10°52 | 4°21 | 14°31 | 13°55 | 15° 5 | 7° 5 | 10°25 | M 7 |
| T 8 | 1 7 32 | 15° 0'56 | 19° 0 | 10°28 | 28° 4 | 29°27 | 24°34 | 13°57 | 10°50 | 4°23 | 14°30 | 13°50 | 15° 2 | 7°12 | 10°23 | T 8 |
| W 9 | 1 11 29 | 15°59'51 | 0♎50 | 11° 8 | 29°18 | 0♌ 8 | 24°46 | 14° 5 | 10°47 | 4°26 | 14°29 | 13°45 | 14°59 | 7°19 | 10°21 | W 9 |
| T 10 | 1 15 25 | 16°58'48 | 12°39 | 11°43 | 0♎32 | 0°49 | 24°58 | 14°12 | 10°45 | 4°28 | 14°28 | 13°41 | 14°56 | 7°25 | 10°19 | T 10 |
| F 11 | 1 19 22 | 17°57'47 | 24°29 | 12°15 | 1°47 | 1°30 | 25° 9 | 14°20 | 10°42 | 4°30 | 14°27 | 13°38 | 14°53 | 7°32 | 10°16 | F 11 |
| S 12 | 1 23 18 | 18°56'49 | 6♎21 | 12°41 | 3° 1 | 2°12 | 25°21 | 14°27 | 10°40 | 4°32 | 14°26 | 13°37 | 14°49 | 7°39 | 10°14 | S 12 |
| S 13 | 1 27 15 | 19°55'52 | 18°19 | 13° 1 | 4°16 | 2°53 | 25°33 | 14°34 | 10°38 | 4°34 | 14°25 | 13°D36 | 14°46 | 7°45 | 10°12 | S 13 |
| M14 | 1 31 11 | 20°54'57 | 0♎24 | 13°16 | 5°31 | 3°35 | 25°45 | 14°42 | 10°35 | 4°36 | 14°24 | 13°37 | 14°43 | 7°52 | 10°10 | M14 |
| T 15 | 1 35 8 | 21°54'04 | 12°39 | 13°24 | 6°45 | 4°17 | 25°57 | 14°49 | 10°33 | 4°39 | 14°23 | 13°39 | 14°40 | 7°59 | 10° 8 | T 15 |
| W16 | 1 39 5 | 22°53'13 | 25° 7 | 13°R26 | 8° 0 | 4°58 | 26° 9 | 14°57 | 10°31 | 4°41 | 14°22 | 13°40 | 14°37 | 8° 5 | 10° 6 | W16 |
| T 17 | 1 43 1 | 23°52'23 | 7♌53 | 13°20 | 9°14 | 5°40 | 26°21 | 15° 4 | 10°28 | 4°43 | 14°21 | 13°42 | 14°34 | 8°12 | 10° 4 | T 17 |
| F 18 | 1 46 58 | 24°51'36 | 20°59 | 13° 6 | 10°29 | 6°23 | 26°33 | 15°12 | 10°26 | 4°45 | 14°20 | 13°R42 | 14°30 | 8°19 | 10° 2 | F 18 |
| S 19 | 1 50 54 | 25°50'50 | 4♎28 | 12°45 | 11°44 | 7° 5 | 26°45 | 15°19 | 10°24 | 4°47 | 14°19 | 13°42 | 14°27 | 8°25 | 10° 1 | S 19 |
| S 20 | 1 54 51 | 26°50'05 | 18°22 | 12°16 | 12°58 | 7°47 | 26°57 | 15°26 | 10°21 | 4°49 | 14°18 | 13°41 | 14°24 | 8°32 | 9°59 | S 20 |
| M21 | 1 58 47 | 27°49'23 | 2♎41 | 11°38 | 14°13 | 8°30 | 27°10 | 15°34 | 10°19 | 4°51 | 14°17 | 13°40 | 14°21 | 8°39 | 9°57 | M21 |
| T 22 | 2 2 44 | 28°48'42 | 17°22 | 10°52 | 15°28 | 9°12 | 27°22 | 15°41 | 10°17 | 4°53 | 14°16 | 13°38 | 14°18 | 8°45 | 9°56 | T 22 |
| W23 | 2 6 40 | 29°48'03 | 2°Y21 | 9°59 | 16°43 | 9°55 | 27°34 | 15°48 | 10°15 | 4°55 | 14°15 | 13°36 | 14°15 | 8°52 | 9°54 | W23 |
| T 24 | 2 10 37 | 0♎47'25 | 17°29 | 8°58 | 17°58 | 10°38 | 27°47 | 15°56 | 10°12 | 4°58 | 14°13 | 13°35 | 14°11 | 8°59 | 9°52 | T 24 |
| F 25 | 2 14 34 | 1°46'50 | 2♌37 | 7°52 | 19°12 | 11°20 | 27°59 | 16° 3 | 10°10 | 5° 0 | 14°12 | 13°34 | 14° 8 | 9° 5 | 9°51 | F 25 |
| S 26 | 2 18 30 | 2°46'17 | 17°36 | 6°42 | 20°27 | 12° 3 | 28°12 | 16°10 | 10° 8 | 5° 2 | 14°11 | 13°D34 | 14° 5 | 9°12 | 9°49 | S 26 |
| S 27 | 2 22 27 | 3°45'46 | 2♎17 | 5°28 | 21°42 | 12°46 | 28°24 | 16°17 | 10° 6 | 5° 4 | 14°10 | 13°34 | 14° 2 | 9°19 | 9°48 | S 27 |
| M28 | 2 26 23 | 4°45'17 | 16°36 | 4°15 | 22°57 | 13°30 | 28°37 | 16°25 | 10° 4 | 5° 6 | 14° 9 | 13°35 | 13°59 | 9°25 | 9°47 | M28 |
| T 29 | 2 30 20 | 5°44'50 | 0♌28 | 3° 2 | 24°12 | 14°13 | 28°49 | 16°32 | 10° 2 | 5° 8 | 14° 8 | 13°36 | 13°55 | 9°32 | 9°45 | T 29 |
| W30 | 2 34 16 | 6°44'25 | 13°54 | 1°53 | 25°27 | 14°56 | 29° 2 | 16°39 | 9°59 | 5°10 | 14° 7 | 13°36 | 13°52 | 9°39 | 9°44 | W30 |
| T 31 | 2 38 13 | 7°44'03 | 26♌54 | 0♎50 | 26°42 | 15°39 | 29°11 | 16°46 | 9°Y57 | 5°12 | 14° 6 | 13°37 | 13°49 | 9°45 | 9°K43 | T 31 |

Delta T = 20m11s

ASTRODIENST EPHEMERIS for the year 2599
geocentric

NOVEMBER 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|---------|----------|--------|--------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|-------|------|
| F 1 | 2 42 9 | 8♁43'43 | 9♁32 | 29°R54 | 27♁57 | 16♁23 | 29♁28 | 16♁53 | 9°R55 | 5♁13 | 14°R 5 | 13°R37 | 13♁46 | 9♁52 | 9°R42 | F 1 |
| S 2 | 2 46 6 | 9°43'25 | 21°51 | 29♁ 8 | 29°12 | 17° 7 | 29°40 | 17° 0 | 9°Y53 | 5°15 | 14♁ 3 | 13♁37 | 13°43 | 9°59 | 9°X41 | S 2 |
| S 3 | 2 50 3 | 10°43'10 | 3♁57 | 28°32 | 0♁27 | 17°50 | 29°53 | 17° 7 | 9°51 | 5°17 | 14° 2 | 13°36 | 13°40 | 10° 6 | 9°40 | S 3 |
| M 4 | 2 53 59 | 11°42'56 | 15°52 | 28° 6 | 1°42 | 18°34 | 0♁ 6 | 17°14 | 9°49 | 5°19 | 14° 1 | 13°36 | 13°36 | 10°12 | 9°39 | M 4 |
| T 5 | 2 57 56 | 12°42'45 | 27°43 | 27°53 | 2°57 | 19°18 | 0°19 | 17°21 | 9°48 | 5°21 | 14° 0 | 13°36 | 13°33 | 10°19 | 9°38 | T 5 |
| W 6 | 3 1 52 | 13°42'35 | 9♁31 | 27°D50 | 4°12 | 20° 2 | 0°32 | 17°28 | 9°46 | 5°23 | 13°59 | 13°D36 | 13°30 | 10°26 | 9°37 | W 6 |
| T 7 | 3 5 49 | 14°42'28 | 21°21 | 27°59 | 5°27 | 20°46 | 0°45 | 17°35 | 9°44 | 5°25 | 13°58 | 13°36 | 13°27 | 10°32 | 9°36 | T 7 |
| F 8 | 3 9 45 | 15°42'23 | 3♁15 | 28°18 | 6°43 | 21°30 | 0°58 | 17°42 | 9°42 | 5°26 | 13°57 | 13°36 | 13°24 | 10°39 | 9°36 | F 8 |
| S 9 | 3 13 42 | 16°42'20 | 15°15 | 28°47 | 7°58 | 22°14 | 1°11 | 17°49 | 9°40 | 5°28 | 13°56 | 13°R36 | 13°21 | 10°46 | 9°35 | S 9 |
| S 10 | 3 17 38 | 17°42'18 | 27°24 | 29°26 | 9°13 | 22°58 | 1°24 | 17°56 | 9°38 | 5°30 | 13°54 | 13°36 | 13°17 | 10°52 | 9°34 | S 10 |
| M11 | 3 21 35 | 18°42'19 | 9♁43 | 0♁12 | 10°28 | 23°43 | 1°37 | 18° 3 | 9°37 | 5°32 | 13°53 | 13°36 | 13°14 | 10°59 | 9°34 | M11 |
| T 12 | 3 25 32 | 19°42'21 | 22°13 | 1° 6 | 11°43 | 24°27 | 1°50 | 18°10 | 9°35 | 5°34 | 13°52 | 13°35 | 13°11 | 11° 6 | 9°33 | T 12 |
| W13 | 3 29 28 | 20°42'26 | 4♁55 | 2° 7 | 12°59 | 25°12 | 2° 3 | 18°16 | 9°33 | 5°35 | 13°51 | 13°34 | 13° 8 | 11°12 | 9°33 | W13 |
| T 14 | 3 33 25 | 21°42'31 | 17°52 | 3°13 | 14°14 | 25°56 | 2°16 | 18°23 | 9°32 | 5°37 | 13°50 | 13°33 | 13° 5 | 11°19 | 9°33 | T 14 |
| F 15 | 3 37 21 | 22°42'39 | 1♁ 5 | 4°24 | 15°29 | 26°41 | 2°29 | 18°30 | 9°30 | 5°39 | 13°49 | 13°32 | 13° 1 | 11°26 | 9°32 | F 15 |
| S 16 | 3 41 18 | 23°42'47 | 14°34 | 5°39 | 16°44 | 27°25 | 2°43 | 18°36 | 9°29 | 5°40 | 13°48 | 13°32 | 12°58 | 11°32 | 9°32 | S 16 |
| S 17 | 3 45 14 | 24°42'58 | 28°21 | 6°58 | 18° 0 | 28°10 | 2°56 | 18°43 | 9°27 | 5°42 | 13°47 | 13°D31 | 12°55 | 11°39 | 9°32 | S 17 |
| M18 | 3 49 11 | 25°43'09 | 12♁25 | 8°20 | 19°15 | 28°55 | 3° 9 | 18°49 | 9°26 | 5°43 | 13°45 | 13°32 | 12°52 | 11°46 | 9°32 | M18 |
| T 19 | 3 53 7 | 26°43'22 | 26°46 | 9°44 | 20°30 | 29°40 | 3°22 | 18°56 | 9°24 | 5°45 | 13°44 | 13°33 | 12°49 | 11°52 | 9°D32 | T 19 |
| W20 | 3 57 4 | 27°43'37 | 11°Y21 | 11°11 | 21°45 | 0♁25 | 3°35 | 19° 2 | 9°23 | 5°47 | 13°43 | 13°34 | 12°46 | 11°59 | 9°32 | W20 |
| T 21 | 4 1 1 | 28°43'52 | 26° 6 | 12°39 | 23° 1 | 1°10 | 3°49 | 19° 8 | 9°22 | 5°48 | 13°42 | 13°35 | 12°42 | 12° 6 | 9°32 | T 21 |
| F 22 | 4 4 57 | 29°44'10 | 10♁53 | 14° 9 | 24°16 | 1°55 | 4° 2 | 19°15 | 9°20 | 5°50 | 13°41 | 13°R35 | 12°39 | 12°12 | 9°32 | F 22 |
| S 23 | 4 8 54 | 0♁44'29 | 25°38 | 15°40 | 25°31 | 2°40 | 4°15 | 19°21 | 9°19 | 5°51 | 13°40 | 13°35 | 12°36 | 12°19 | 9°32 | S 23 |
| S 24 | 4 12 50 | 1°44'50 | 10♁12 | 17°13 | 26°47 | 3°25 | 4°28 | 19°27 | 9°18 | 5°52 | 13°39 | 13°34 | 12°33 | 12°26 | 9°33 | S 24 |
| M25 | 4 16 47 | 2°45'12 | 24°29 | 18°45 | 28° 2 | 4°10 | 4°42 | 19°33 | 9°17 | 5°54 | 13°38 | 13°32 | 12°30 | 12°32 | 9°33 | M25 |
| T 26 | 4 20 43 | 3°45'36 | 8♁24 | 20°19 | 29°17 | 4°56 | 4°55 | 19°39 | 9°16 | 5°55 | 13°37 | 13°29 | 12°27 | 12°39 | 9°33 | T 26 |
| W27 | 4 24 40 | 4°46'02 | 21°55 | 21°53 | 0♁33 | 5°41 | 5° 8 | 19°45 | 9°15 | 5°57 | 13°36 | 13°26 | 12°23 | 12°46 | 9°34 | W27 |
| T 28 | 4 28 36 | 5°46'30 | 5♁ 1 | 23°27 | 1°48 | 6°26 | 5°22 | 19°51 | 9°14 | 5°58 | 13°35 | 13°23 | 12°20 | 12°52 | 9°34 | T 28 |
| F 29 | 4 32 33 | 6°46'59 | 17°44 | 25° 1 | 3° 3 | 7°12 | 5°35 | 19°57 | 9°13 | 5°59 | 13°34 | 13°20 | 12°17 | 12°59 | 9°35 | F 29 |
| S 30 | 4 36 30 | 7♁47'31 | 0♁ 6 | 26♁36 | 4♁19 | 7♁57 | 5♁48 | 20♁ 3 | 9°Y12 | 6♁ 0 | 13♁33 | 13♁19 | 12♁14 | 13♁ 5 | 9°X35 | S 30 |

Delta T = 20m11s

DECEMBER 2599

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|-------|------|
| S 1 | 4 40 26 | 8♁48'03 | 12♁13 | 28♁11 | 5♁34 | 8♁43 | 6♁ 1 | 20♁ 9 | 9°R11 | 6♁ 2 | 13°R32 | 13°D19 | 12♁11 | 13♁12 | 9°X36 | S 1 |
| M 2 | 4 44 23 | 9°48'38 | 24° 9 | 29°46 | 6°49 | 9°28 | 6°15 | 20°14 | 9°Y10 | 6° 3 | 13♁31 | 13♁20 | 12° 7 | 13°19 | 9°37 | M 2 |
| T 3 | 4 48 19 | 10°49'14 | 5♁58 | 1♁21 | 8° 5 | 10°14 | 6°28 | 20°20 | 9° 9 | 6° 4 | 13°30 | 13°21 | 12° 4 | 13°25 | 9°38 | T 3 |
| W 4 | 4 52 16 | 11°49'52 | 17°47 | 2°56 | 9°20 | 11° 0 | 6°41 | 20°26 | 9° 8 | 6° 5 | 13°29 | 13°23 | 12° 1 | 13°32 | 9°39 | W 4 |
| T 5 | 4 56 12 | 12°50'31 | 29°38 | 4°30 | 10°36 | 11°45 | 6°55 | 20°31 | 9° 8 | 6° 6 | 13°28 | 13°25 | 11°58 | 13°39 | 9°40 | T 5 |
| F 6 | 5 0 9 | 13°51'12 | 11♁37 | 6° 5 | 11°51 | 12°31 | 7° 8 | 20°37 | 9° 7 | 6° 7 | 13°27 | 13°R26 | 11°55 | 13°45 | 9°41 | F 6 |
| S 7 | 5 4 5 | 14°51'55 | 23°47 | 7°40 | 13° 7 | 13°17 | 7°21 | 20°42 | 9° 6 | 6° 9 | 13°26 | 13°25 | 11°52 | 13°52 | 9°42 | S 7 |
| S 8 | 5 8 2 | 15°52'39 | 6♁ 9 | 9°14 | 14°22 | 14° 3 | 7°34 | 20°47 | 9° 6 | 6°10 | 13°25 | 13°23 | 11°48 | 13°59 | 9°43 | S 8 |
| M 9 | 5 11 59 | 16°53'24 | 18°45 | 10°49 | 15°37 | 14°49 | 7°47 | 20°53 | 9° 5 | 6°11 | 13°24 | 13°19 | 11°45 | 14° 5 | 9°44 | M 9 |
| T 10 | 5 15 55 | 17°54'11 | 1♁36 | 12°23 | 16°53 | 15°34 | 8° 1 | 20°58 | 9° 5 | 6°12 | 13°23 | 13°14 | 11°42 | 14°12 | 9°45 | T 10 |
| W11 | 5 19 52 | 18°54'59 | 14°41 | 13°58 | 18° 8 | 16°20 | 8°14 | 21° 3 | 9° 5 | 6°13 | 13°22 | 13° 8 | 11°39 | 14°19 | 9°46 | W11 |
| T 12 | 5 23 48 | 19°55'47 | 28° 0 | 15°32 | 19°24 | 17° 6 | 8°27 | 21° 8 | 9° 4 | 6°13 | 13°21 | 13° 1 | 11°36 | 14°25 | 9°48 | T 12 |
| F 13 | 5 27 45 | 20°56'37 | 11♁31 | 17° 6 | 20°39 | 17°52 | 8°40 | 21°13 | 9° 4 | 6°14 | 13°20 | 12°55 | 11°33 | 14°32 | 9°49 | F 13 |
| S 14 | 5 31 41 | 21°57'28 | 25°13 | 18°41 | 21°55 | 18°38 | 8°53 | 21°18 | 9° 4 | 6°15 | 13°20 | 12°51 | 11°29 | 14°39 | 9°51 | S 14 |
| S 15 | 5 35 38 | 22°58'19 | 9♁ 4 | 20°15 | 23°10 | 19°24 | 9° 7 | 21°22 | 9° 3 | 6°16 | 13°19 | 12°48 | 11°26 | 14°45 | 9°52 | S 15 |
| M16 | 5 39 35 | 23°59'11 | 23° 3 | 21°49 | 24°26 | 20°11 | 9°20 | 21°27 | 9° 3 | 6°17 | 13°18 | 12°D47 | 11°23 | 14°52 | 9°54 | M16 |
| T 17 | 5 43 31 | 25° 0'04 | 7°Y11 | 23°23 | 25°41 | 20°57 | 9°33 | 21°32 | 9° 3 | 6°17 | 13°17 | 12°48 | 11°20 | 14°59 | 9°56 | T 17 |
| W18 | 5 47 28 | 26° 0'57 | 21°24 | 24°57 | 26°57 | 21°43 | 9°46 | 21°36 | 9°D 3 | 6°18 | 13°16 | 12°49 | 11°17 | 15° 5 | 9°57 | W18 |
| T 19 | 5 51 24 | 27° 1'51 | 5♁42 | 26°32 | 28°12 | 22°29 | 9°59 | 21°41 | 9° 3 | 6°19 | 13°16 | 12°R50 | 11°13 | 15°12 | 9°59 | T 19 |
| F 20 | 5 55 21 | 28° 2'46 | 20° 2 | 28° 6 | 29°27 | 23°15 | 10°12 | 21°45 | 9° 3 | 6°20 | 13°15 | 12°50 | 11°10 | 15°19 | 10° 1 | F 20 |
| S 21 | 5 59 17 | 29° 3'42 | 4♁20 | 29°40 | 0♁43 | 24° 1 | 10°25 | 21°50 | 9° 3 | 6°20 | 13°14 | 12°48 | 11° 7 | 15°25 | 10° 3 | S 21 |
| S 22 | 6 3 14 | 0♁ 3 | 18°32 | 1♁15 | 1°58 | 24°48 | 10°38 | 21°54 | 9° 4 | 6°21 | 13°13 | 12°44 | 11° 4 | 15°32 | 10° 5 | S 22 |
| M23 | 6 7 10 | 1° 5'35 | 2♁32 | 2°49 | 3°14 | 25°34 | 10°51 | 21°58 | 9° 4 | 6°21 | 13°13 | 12°37 | 11° 1 | 15°39 | 10° 7 | M23 |
| T 24 | 6 11 7 | 2° 6'33 | 16°17 | 4°24 | 4°29 | 26°20 | 11° 4 | 22° 2 | 9° 4 | 6°22 | 13°12 | 12°29 | 10°58 | 15°45 | 10° 9 | T 24 |
| W25 | 6 15 4 | 3° 7'32 | 29°43 | 5°58 | 5°45 | 27° 6 | 11°16 | 22° 6 | 9° 4 | 6°22 | 13°11 | 12°20 | 10°54 | 15°52 | 10°11 | W25 |
| T 26 | 6 19 0 | 4° 8'31 | 12♁48 | 7°33 | 7° 0 | 27°53 | 11°29 | 22°10 | 9° 5 | 6°23 | 13°11 | 12°11 | 10°51 | 15°59 | 10°13 | T 26 |
| F 27 | 6 22 57 | 5° 9'32 | 25°32 | 9° 8 | 8°16 | 28°39 | 11°42 | 22°14 | 9° 5 | 6°23 | 13°10 | 12° 3 | 10°48 | 16° 5 | 10°15 | F 27 |
| S 28 | 6 26 53 | 6°10'33 | 7♁56 | 10°43 | 9°31 | 29°25 | 11°55 | 22°17 | 9° 6 | 6°24 | 13° 9 | 11°57 | 10°45 | 16°12 | 10°17 | S 28 |
| S 29 | 6 30 50 | 7°11'35 | 20° 4 | 12°18 | 10°47 | 0♁12 | 12° 7 | 22°21 | 9° 6 | 6°24 | 13° 9 | 11°53 | 10°42 | 16°19 | 10°20 | S 29 |
| M30 | 6 34 46 | 8°12'38 | 2♁ 1 | 13°54 | 12° 2 | 0°58 | 12°20 | 22°24 | 9° 7 | 6°24 | 13° 8 | 11°51 | 10°39 | 16°25 | 10°22 | M30 |
| T 31 | 6 38 43 | 9♁13'42 | 13♁51 | 15♁29 | 13♁18 | 1♁44 | 12♁33 | 22♁28 | 9°Y 7 | 6♁24 | 13♁ 8 | 11°D51 | 10♁35 | 16♁32 | 10♁24 | T 31 |

Delta T = 20m12s