



Astrodienst Ephemeris Tables for the year 1629

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 1629

geocentric

JANUARY 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|-----|---------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-----|
| M 1 | 6 43 14 | 10°35'29 | 20°30' | 25°R23 | 26°M 9 | 22°A58 | 13°B57 | 22°A40 | 10°R32 | 1°M 8 | 19°R10 | 10°R35 | 10°B33 | 17°B30 | 2°V28 | M 1 |
| T 2 | 6 47 11 | 11°58'40 | 3°V 1 | 24°A57 | 27°18 | 23°43 | 14°11 | 22°43 | 10°M31 | 1° 9 | 19°B 9 | 10°B35 | 10°29 | 17°37 | 2°29 | T 2 |
| W 3 | 6 51 7 | 12°59'50 | 15°53 | 24°42 | 28°27 | 24°27 | 14°25 | 22°46 | 10°30 | 1°10 | 19° 9 | 10°D35 | 10°26 | 17°43 | 2°30 | W 3 |
| T 4 | 6 55 4 | 14° 1'00 | 29° 8 | 24°D36 | 29°36 | 25°12 | 14°39 | 22°49 | 10°29 | 1°11 | 19° 8 | 10°35 | 10°23 | 17°50 | 2°32 | T 4 |
| F 5 | 6 59 0 | 15° 2'09 | 12°B49 | 24°39 | 0°A45 | 25°56 | 14°53 | 22°52 | 10°28 | 1°12 | 19° 8 | 10°35 | 10°20 | 17°57 | 2°33 | F 5 |
| S 6 | 7 2 57 | 16° 3'17 | 26°57 | 24°51 | 1°54 | 26°41 | 15° 7 | 22°55 | 10°27 | 1°13 | 19° 7 | 10°36 | 10°17 | 18° 3 | 2°34 | S 6 |
| S 7 | 7 6 53 | 17° 4'25 | 11°B31 | 25° 9 | 3° 4 | 27°26 | 15°21 | 22°57 | 10°26 | 1°14 | 19° 6 | 10°37 | 10°13 | 18°10 | 2°36 | S 7 |
| M 8 | 7 10 50 | 18° 5'33 | 26°26 | 25°35 | 4°13 | 28°11 | 15°35 | 23° 0 | 10°24 | 1°14 | 19° 6 | 10°37 | 10°10 | 18°17 | 2°37 | M 8 |
| T 9 | 7 14 47 | 19° 6'40 | 11°B36 | 26° 7 | 5°23 | 28°55 | 15°49 | 23° 2 | 10°23 | 1°15 | 19° 5 | 10°R37 | 10° 7 | 18°23 | 2°38 | T 9 |
| W10 | 7 18 43 | 20° 7'46 | 26°51 | 26°44 | 6°33 | 29°40 | 16° 3 | 23° 5 | 10°22 | 1°16 | 19° 5 | 10°37 | 10° 4 | 18°30 | 2°40 | W10 |
| T11 | 7 22 40 | 21° 8'52 | 12°B 2 | 27°26 | 7°43 | 0°B25 | 16°17 | 23° 7 | 10°20 | 1°17 | 19° 5 | 10°36 | 10° 1 | 18°37 | 2°42 | T11 |
| F12 | 7 26 36 | 22° 9'57 | 26°59 | 28°13 | 8°53 | 1°10 | 16°31 | 23° 9 | 10°19 | 1°17 | 19° 4 | 10°35 | 9°58 | 18°43 | 2°43 | F12 |
| S13 | 7 30 33 | 23°11'02 | 11°M35 | 29° 5 | 10° 3 | 1°55 | 16°45 | 23°11 | 10°17 | 1°18 | 19° 4 | 10°33 | 9°54 | 18°50 | 2°45 | S13 |
| S14 | 7 34 29 | 24°12'07 | 25°44 | 29°59 | 11°13 | 2°40 | 16°59 | 23°13 | 10°16 | 1°19 | 19° 3 | 10°32 | 9°51 | 18°56 | 2°47 | S14 |
| M15 | 7 38 26 | 25°13'11 | 9°A26 | 0°B58 | 12°24 | 3°25 | 17°13 | 23°15 | 10°14 | 1°19 | 19° 3 | 10°30 | 9°48 | 19° 3 | 2°48 | M15 |
| T16 | 7 42 22 | 26°14'15 | 22°40 | 1°59 | 13°34 | 4°10 | 17°27 | 23°16 | 10°13 | 1°20 | 19° 3 | 10°D30 | 9°45 | 19°10 | 2°50 | T16 |
| W17 | 7 46 19 | 27°15'18 | 5°M30 | 3° 3 | 14°45 | 4°55 | 17°41 | 23°18 | 10°11 | 1°20 | 19° 2 | 10°30 | 9°42 | 19°16 | 2°52 | W17 |
| T18 | 7 50 16 | 28°16'21 | 17°59 | 4° 9 | 15°56 | 5°40 | 17°55 | 23°19 | 10° 9 | 1°21 | 19° 2 | 10°31 | 9°39 | 19°23 | 2°54 | T18 |
| F19 | 7 54 12 | 29°17'23 | 0°A11 | 5°18 | 17° 7 | 6°25 | 18° 9 | 23°21 | 10° 8 | 1°21 | 19° 2 | 10°32 | 9°35 | 19°30 | 2°56 | F19 |
| S20 | 7 58 9 | 0°A18'25 | 12°12 | 6°28 | 18°17 | 7°11 | 18°23 | 23°22 | 10° 6 | 1°22 | 19° 1 | 10°34 | 9°32 | 19°36 | 2°58 | S20 |
| S21 | 8 2 5 | 1°19'26 | 24° 4 | 7°41 | 19°29 | 7°56 | 18°37 | 23°23 | 10° 4 | 1°22 | 19° 1 | 10°36 | 9°29 | 19°43 | 3° 0 | S21 |
| M22 | 8 6 2 | 2°20'26 | 5°B52 | 8°55 | 20°40 | 8°41 | 18°51 | 23°24 | 10° 2 | 1°23 | 19° 1 | 10°R36 | 9°26 | 19°50 | 3° 2 | M22 |
| T23 | 8 9 58 | 3°21'26 | 17°39 | 10°11 | 21°51 | 9°27 | 19° 5 | 23°25 | 10° 0 | 1°23 | 19° 1 | 10°36 | 9°23 | 19°56 | 3° 5 | T23 |
| W24 | 8 13 55 | 4°22'24 | 29°26 | 11°28 | 23° 2 | 10°12 | 19°19 | 23°26 | 9°58 | 1°23 | 19° 0 | 10°35 | 9°19 | 20° 3 | 3° 7 | W24 |
| T25 | 8 17 51 | 5°23'22 | 11°A18 | 12°47 | 24°13 | 10°57 | 19°32 | 23°27 | 9°56 | 1°23 | 19° 0 | 10°32 | 9°16 | 20°10 | 3° 9 | T25 |
| F26 | 8 21 48 | 6°24'19 | 23°14 | 14° 7 | 25°25 | 11°43 | 19°46 | 23°28 | 9°54 | 1°24 | 19° 0 | 10°28 | 9°13 | 20°16 | 3°11 | F26 |
| S27 | 8 25 45 | 7°25'14 | 5°A18 | 15°28 | 26°36 | 12°28 | 20° 0 | 23°28 | 9°52 | 1°24 | 19° 0 | 10°24 | 9°10 | 20°23 | 3°14 | S27 |
| S28 | 8 29 41 | 8°26'08 | 17°30 | 16°50 | 27°48 | 13°14 | 20°14 | 23°29 | 9°50 | 1°24 | 19° 0 | 10°19 | 9° 7 | 20°30 | 3°16 | S28 |
| M29 | 8 33 38 | 9°27'01 | 29°53 | 18°13 | 28°59 | 13°59 | 20°27 | 23°29 | 9°48 | 1°24 | 19° 0 | 10°14 | 9° 4 | 20°36 | 3°19 | M29 |
| T30 | 8 37 34 | 10°27'52 | 12°V30 | 19°38 | 0°B11 | 14°45 | 20°41 | 23°29 | 9°46 | 1°24 | 19° 0 | 10°10 | 9° 0 | 20°43 | 3°21 | T30 |
| W31 | 8 41 31 | 11°A28'42 | 25°V21 | 21°B 3 | 1°B23 | 15°B30 | 20°B55 | 23°A29 | 9°M44 | 1°M24 | 19°B 0 | 10°B 7 | 8°B57 | 20°B49 | 3°V23 | W31 |

Delta T = 58.76 sec

Greg. Calendar

FEBRUARY 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|-----|----------|-----------|-------|--------|-------|--------|--------|--------|-------|-------|--------|--------|-------|--------|-------|-----|
| T 1 | 8 45 27 | 12°A29'31 | 8°B31 | 22°B29 | 2°B35 | 16°B16 | 21°B 8 | 23°R29 | 9°R41 | 1°R24 | 19°D 0 | 10°D 6 | 8°B54 | 20°B56 | 3°V26 | T 1 |
| F 2 | 8 49 24 | 13°30'17 | 22° 2 | 23°57 | 3°47 | 17° 2 | 21°22 | 23°A29 | 9°M39 | 1°M24 | 19°B 0 | 10°B 6 | 8°51 | 21° 3 | 3°29 | F 2 |
| S 3 | 8 53 20 | 14°31'03 | 5°B54 | 25°25 | 4°58 | 17°47 | 21°35 | 23°29 | 9°37 | 1°24 | 19° 0 | 10° 7 | 8°48 | 21° 9 | 3°31 | S 3 |
| S 4 | 8 57 17 | 15°31'47 | 20°10 | 26°54 | 6°10 | 18°33 | 21°49 | 23°29 | 9°35 | 1°24 | 19° 0 | 10° 9 | 8°45 | 21°16 | 3°34 | S 4 |
| M 5 | 9 1 14 | 16°32'29 | 4°B47 | 28°24 | 7°22 | 19°19 | 22° 2 | 23°29 | 9°32 | 1°24 | 19° 0 | 10°R10 | 8°41 | 21°23 | 3°37 | M 5 |
| T 6 | 9 5 10 | 17°33'10 | 19°41 | 29°55 | 8°34 | 20° 4 | 22°16 | 23°28 | 9°30 | 1°24 | 19° 0 | 10°10 | 8°38 | 21°29 | 3°39 | T 6 |
| W 7 | 9 9 7 | 18°33'49 | 4°B46 | 1°A27 | 9°47 | 20°50 | 22°29 | 23°27 | 9°28 | 1°24 | 19° 0 | 10° 8 | 8°35 | 21°36 | 3°42 | W 7 |
| T 8 | 9 13 3 | 19°34'26 | 19°54 | 2°59 | 10°59 | 21°36 | 22°42 | 23°27 | 9°25 | 1°23 | 19° 0 | 10° 4 | 8°32 | 21°43 | 3°45 | T 8 |
| F 9 | 9 17 0 | 20°35'02 | 4°M54 | 4°33 | 12°11 | 22°22 | 22°56 | 23°26 | 9°23 | 1°23 | 19° 0 | 9°58 | 8°29 | 21°49 | 3°48 | F 9 |
| S10 | 9 20 56 | 21°35'36 | 19°38 | 6° 7 | 13°23 | 23° 8 | 23° 9 | 23°25 | 9°20 | 1°23 | 19° 0 | 9°51 | 8°25 | 21°56 | 3°51 | S10 |
| S11 | 9 24 53 | 22°36'09 | 3°A58 | 7°43 | 14°35 | 23°54 | 23°22 | 23°24 | 9°18 | 1°23 | 19° 1 | 9°45 | 8°22 | 22° 3 | 3°54 | S11 |
| M12 | 9 28 49 | 23°36'41 | 17°50 | 9°19 | 15°48 | 24°40 | 23°35 | 23°23 | 9°15 | 1°22 | 19° 1 | 9°39 | 8°19 | 22° 9 | 3°57 | M12 |
| T13 | 9 32 46 | 24°37'12 | 1°M13 | 10°56 | 17° 0 | 25°26 | 23°48 | 23°22 | 9°13 | 1°22 | 19° 1 | 9°34 | 8°16 | 22°16 | 4° 0 | T13 |
| W14 | 9 36 43 | 25°37'41 | 14° 9 | 12°34 | 18°13 | 26°12 | 24° 1 | 23°20 | 9°10 | 1°21 | 19° 1 | 9°32 | 8°13 | 22°23 | 4° 3 | W14 |
| T15 | 9 40 39 | 26°38'09 | 26°41 | 14°13 | 19°25 | 26°58 | 24°14 | 23°19 | 9° 8 | 1°21 | 19° 2 | 9°D31 | 8°10 | 22°29 | 4° 6 | T15 |
| F16 | 9 44 36 | 27°38'35 | 8°A53 | 15°53 | 20°38 | 27°44 | 24°27 | 23°17 | 9° 5 | 1°20 | 19° 2 | 9°31 | 8° 6 | 22°36 | 4° 9 | F16 |
| S17 | 9 48 32 | 28°39'00 | 20°52 | 17°34 | 21°50 | 28°30 | 24°40 | 23°16 | 9° 3 | 1°20 | 19° 2 | 9°33 | 8° 3 | 22°43 | 4°12 | S17 |
| S18 | 9 52 29 | 29°39'24 | 2°B42 | 19°15 | 23° 3 | 29°16 | 24°53 | 23°14 | 9° 0 | 1°19 | 19° 3 | 9°34 | 8° 0 | 22°49 | 4°15 | S18 |
| M19 | 9 56 25 | 0°A39'46 | 14°28 | 20°58 | 24°15 | 0°A 2 | 25° 5 | 23°12 | 8°58 | 1°19 | 19° 3 | 9°R34 | 7°57 | 22°56 | 4°18 | M19 |
| T20 | 10 0 22 | 1°40'07 | 26°14 | 22°42 | 25°28 | 0°48 | 25°18 | 23°10 | 8°55 | 1°18 | 19° 3 | 9°32 | 7°54 | 23° 2 | 4°21 | T20 |
| W21 | 10 4 18 | 2°40'26 | 8°A 5 | 24°27 | 26°41 | 1°34 | 25°31 | 23° 8 | 8°52 | 1°18 | 19° 4 | 9°28 | 7°50 | 23° 9 | 4°25 | W21 |
| T22 | 10 8 15 | 3°40'44 | 20° 2 | 26°12 | 27°53 | 2°20 | 25°43 | 23° 6 | 8°50 | 1°17 | 19° 4 | 9°22 | 7°47 | 23°16 | 4°28 | T22 |
| F23 | 10 12 12 | 4°40'59 | 2°B 9 | 27°59 | 29° 6 | 3° 7 | 25°56 | 23° 4 | 8°47 | 1°16 | 19° 5 | 9°13 | 7°44 | 23°22 | 4°31 | F23 |
| S24 | 10 16 8 | 5°41'13 | 14°26 | 29°47 | 0°A19 | 3°53 | 26° 8 | 23° 2 | 8°45 | 1°15 | 19° 5 | 9° 2 | 7°41 | 23°29 | 4°34 | S24 |
| S25 | 10 20 5 | 6°41'25 | 26°54 | 1°A36 | 1°32 | 4°39 | 26°21 | 22°59 | 8°42 | 1°15 | 19° 6 | 8°51 | 7°38 | 23°36 | 4°38 | S25 |
| M26 | 10 24 1 | 7°41'35 | 9°V33 | 3°26 | 2°45 | 5°25 | 26°33 | 22°57 | 8°39 | 1°14 | 19° 6 | 8°41 | 7°35 | 23°42 | 4°41 | M26 |
| T27 | 10 27 58 | 8°41'43 | 22°24 | 5°17 | 3°57 | 6°12 | 26°45 | 22°54 | 8°37 | 1°13 | 19° 7 | 8°31 | 7°31 | 23°49 | 4°45 | T27 |
| W28 | 10 31 54 | 9°A41'49 | 5°B27 | 7°A 9 | 5°A10 | 6°A58 | 26°B57 | 22°A51 | 8°M34 | 1°M12 | 19°B 7 | 8°B24 | 7°B28 | 23°B56 | 4°V48 | W28 |

Delta T = 58.69 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1629

geocentric

MARCH 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|--------|--------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|------|
| T 1 | 10 35 51 | 10°41'53 | 18°43 | 9°2 | 6°23 | 7°44 | 27°3 | 22°R49 | 8°R31 | 1°R11 | 19°8 | 8°R19 | 7°25 | 24°2 | 4°V51 | T 1 |
| F 2 | 10 39 47 | 11°41'55 | 2°113 | 10°56 | 7°36 | 8°30 | 27°21 | 22°46 | 8°29 | 1°10 | 19°8 | 8°17 | 7°22 | 24°9 | 4°55 | F 2 |
| S 3 | 10 43 44 | 12°41'54 | 15°58 | 12°50 | 8°49 | 9°17 | 27°33 | 22°43 | 8°26 | 1°10 | 19°9 | 8°D17 | 7°19 | 24°16 | 4°58 | S 3 |
| S 4 | 10 47 41 | 13°41'52 | 29°59 | 14°46 | 10°2 | 10°3 | 27°45 | 22°40 | 8°24 | 1°9 | 19°10 | 8°17 | 7°16 | 24°22 | 5°2 | S 4 |
| M 5 | 10 51 37 | 14°41'47 | 14°17 | 16°43 | 11°15 | 10°50 | 27°57 | 22°37 | 8°21 | 1°8 | 19°10 | 8°R17 | 7°12 | 24°29 | 5°5 | M 5 |
| T 6 | 10 55 34 | 15°41'40 | 28°48 | 18°40 | 12°28 | 11°36 | 28°8 | 22°34 | 8°18 | 1°7 | 19°11 | 8°16 | 7°9 | 24°36 | 5°9 | T 6 |
| W 7 | 10 59 30 | 16°41'30 | 13°30 | 20°38 | 13°41 | 12°22 | 28°20 | 22°31 | 8°16 | 1°6 | 19°12 | 8°12 | 7°6 | 24°42 | 5°12 | W 7 |
| T 8 | 11 3 27 | 17°41'19 | 28°18 | 22°37 | 14°54 | 13°9 | 28°32 | 22°27 | 8°13 | 1°5 | 19°12 | 8°5 | 7°3 | 24°49 | 5°16 | T 8 |
| F 9 | 11 7 23 | 18°41'05 | 13°2 | 24°35 | 16°7 | 13°55 | 28°43 | 22°24 | 8°11 | 1°3 | 19°13 | 7°55 | 7°0 | 24°56 | 5°19 | F 9 |
| S 10 | 11 11 20 | 19°40'49 | 27°36 | 26°34 | 17°20 | 14°41 | 28°54 | 22°20 | 8°8 | 1°2 | 19°14 | 7°45 | 6°56 | 25°2 | 5°23 | S 10 |
| S 11 | 11 15 16 | 20°40'32 | 11°52 | 28°33 | 18°33 | 15°28 | 29°6 | 22°17 | 8°6 | 1°1 | 19°15 | 7°33 | 6°53 | 25°9 | 5°26 | S 11 |
| M 12 | 11 19 13 | 21°40'12 | 25°44 | 0°V32 | 19°46 | 16°14 | 29°17 | 22°13 | 8°3 | 1°0 | 19°16 | 7°23 | 6°50 | 25°15 | 5°30 | M 12 |
| T 13 | 11 23 9 | 22°39'50 | 9°10 | 2°30 | 20°59 | 17°1 | 29°28 | 22°10 | 8°1 | 0°59 | 19°16 | 7°14 | 6°47 | 25°22 | 5°34 | T 13 |
| W 14 | 11 27 6 | 23°39'27 | 22°10 | 4°27 | 22°12 | 17°47 | 29°39 | 22°6 | 7°58 | 0°58 | 19°17 | 7°8 | 6°44 | 25°29 | 5°37 | W 14 |
| T 15 | 11 31 3 | 24°39'02 | 4°46 | 6°23 | 23°25 | 18°34 | 29°50 | 22°2 | 7°56 | 0°56 | 19°18 | 7°4 | 6°41 | 25°35 | 5°41 | T 15 |
| F 16 | 11 34 59 | 25°38'35 | 17°1 | 8°17 | 24°38 | 19°20 | 0°0 | 21°58 | 7°53 | 0°55 | 19°19 | 7°2 | 6°37 | 25°42 | 5°44 | F 16 |
| S 17 | 11 38 56 | 26°38'07 | 29°2 | 10°9 | 25°52 | 20°7 | 0°11 | 21°55 | 7°51 | 0°54 | 19°20 | 7°D 2 | 6°34 | 25°49 | 5°48 | S 17 |
| S 18 | 11 42 52 | 27°37'37 | 10°53 | 11°58 | 27°5 | 20°53 | 0°22 | 21°51 | 7°48 | 0°53 | 19°21 | 7°R 2 | 6°31 | 25°55 | 5°52 | S 18 |
| M 19 | 11 46 49 | 28°37'04 | 22°40 | 13°45 | 28°18 | 21°40 | 0°32 | 21°47 | 7°46 | 0°51 | 19°21 | 7°1 | 6°28 | 26°2 | 5°55 | M 19 |
| T 20 | 11 50 45 | 29°36'31 | 4°29 | 15°28 | 29°31 | 22°26 | 0°42 | 21°43 | 7°43 | 0°50 | 19°22 | 6°59 | 6°25 | 26°9 | 5°59 | T 20 |
| W 21 | 11 54 42 | 0°V35'55 | 16°23 | 17°7 | 0°H44 | 23°13 | 0°53 | 21°38 | 7°41 | 0°49 | 19°23 | 6°53 | 6°22 | 26°15 | 6°3 | W 21 |
| T 22 | 11 58 38 | 1°35'17 | 28°27 | 18°43 | 1°57 | 23°59 | 1°3 | 21°34 | 7°39 | 0°47 | 19°24 | 6°45 | 6°18 | 26°22 | 6°6 | T 22 |
| F 23 | 12 2 35 | 2°34'37 | 10°H44 | 20°13 | 3°11 | 24°46 | 1°13 | 21°30 | 7°36 | 0°46 | 19°25 | 6°34 | 6°15 | 26°29 | 6°10 | F 23 |
| S 24 | 12 6 32 | 3°33'56 | 23°15 | 21°39 | 4°24 | 25°32 | 1°23 | 21°26 | 7°34 | 0°45 | 19°26 | 6°22 | 6°12 | 26°35 | 6°14 | S 24 |
| S 25 | 12 10 28 | 4°33'12 | 6°V0 | 22°59 | 5°37 | 26°19 | 1°33 | 21°22 | 7°32 | 0°43 | 19°27 | 6°8 | 6°9 | 26°42 | 6°17 | S 25 |
| M 26 | 12 14 25 | 5°32'26 | 18°59 | 24°14 | 6°50 | 27°5 | 1°42 | 21°17 | 7°30 | 0°42 | 19°28 | 5°55 | 6°6 | 26°49 | 6°21 | M 26 |
| T 27 | 12 18 21 | 6°31'38 | 2°B12 | 25°23 | 8°4 | 27°52 | 1°52 | 21°13 | 7°27 | 0°40 | 19°29 | 5°43 | 6°2 | 26°55 | 6°25 | T 27 |
| W 28 | 12 22 18 | 7°30'48 | 15°36 | 26°25 | 9°17 | 28°38 | 2°2 | 21°9 | 7°25 | 0°39 | 19°30 | 5°34 | 5°59 | 27°2 | 6°28 | W 28 |
| T 29 | 12 26 14 | 8°29'56 | 29°9 | 27°22 | 10°30 | 29°25 | 2°11 | 21°4 | 7°23 | 0°37 | 19°31 | 5°27 | 5°56 | 27°9 | 6°32 | T 29 |
| F 30 | 12 30 11 | 9°29'01 | 12°H52 | 28°12 | 11°43 | 0°H11 | 2°20 | 21°0 | 7°21 | 0°36 | 19°32 | 5°24 | 5°53 | 27°15 | 6°36 | F 30 |
| S 31 | 12 34 7 | 10°V28'05 | 26°H43 | 28°V55 | 12°H57 | 0°H58 | 2°29 | 20°H55 | 7°H19 | 0°H34 | 19°H33 | 5°H23 | 5°H50 | 27°H22 | 6°V39 | S 31 |

Delta T = 58.63 sec

Greg. Calendar

APRIL 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|--------|--------|--------|-------|-------|--------|-------|--------|--------|-------|-------|--------|-------|------|
| S 1 | 12 38 4 | 11°V27'06 | 10°H42 | 29°V31 | 14°H10 | 1°H44 | 2°38 | 20°R51 | 7°R17 | 0°R33 | 19°H35 | 5°R23 | 5°H47 | 27°H29 | 6°V43 | S 1 |
| M 2 | 12 42 1 | 12°26'04 | 24°49 | 0°B1 | 15°23 | 2°31 | 2°47 | 20°H46 | 7°H15 | 0°H31 | 19°36 | 5°H22 | 5°43 | 27°35 | 6°47 | M 2 |
| T 3 | 12 45 57 | 13°25'00 | 9°H3 | 0°24 | 16°36 | 3°17 | 2°56 | 20°42 | 7°13 | 0°30 | 19°37 | 5°21 | 5°40 | 27°42 | 6°50 | T 3 |
| W 4 | 12 49 54 | 14°23'54 | 23°22 | 0°40 | 17°50 | 4°4 | 3°5 | 20°37 | 7°11 | 0°28 | 19°38 | 5°16 | 5°37 | 27°49 | 6°54 | W 4 |
| T 5 | 12 53 50 | 15°22'45 | 7°H43 | 0°49 | 19°3 | 4°50 | 3°13 | 20°33 | 7°9 | 0°27 | 19°39 | 5°9 | 5°34 | 27°55 | 6°58 | T 5 |
| F 6 | 12 57 47 | 16°21'34 | 22°2 | 0°R52 | 20°16 | 5°37 | 3°21 | 20°28 | 7°7 | 0°25 | 19°40 | 5°0 | 5°31 | 28°2 | 7°1 | F 6 |
| S 7 | 13 1 43 | 17°20'21 | 6°H12 | 0°49 | 21°30 | 6°23 | 3°30 | 20°23 | 7°5 | 0°23 | 19°41 | 4°49 | 5°27 | 28°8 | 7°5 | S 7 |
| S 8 | 13 5 40 | 18°19'06 | 20°8 | 0°39 | 22°43 | 7°9 | 3°38 | 20°19 | 7°4 | 0°22 | 19°43 | 4°37 | 5°24 | 28°15 | 7°8 | S 8 |
| M 9 | 13 9 36 | 19°17'49 | 3°H47 | 0°23 | 23°56 | 7°56 | 3°46 | 20°14 | 7°2 | 0°20 | 19°44 | 4°26 | 5°21 | 28°22 | 7°12 | M 9 |
| T 10 | 13 13 33 | 20°16'30 | 17°5 | 0°2 | 25°9 | 8°42 | 3°53 | 20°10 | 7°0 | 0°19 | 19°45 | 4°16 | 5°18 | 28°28 | 7°16 | T 10 |
| W 11 | 13 17 30 | 21°15'10 | 0°H0 | 29°V37 | 26°23 | 9°29 | 4°1 | 20°5 | 6°59 | 0°17 | 19°46 | 4°9 | 5°15 | 28°35 | 7°19 | W 11 |
| T 12 | 13 21 26 | 22°13'47 | 12°35 | 29°7 | 27°36 | 10°15 | 4°9 | 20°0 | 6°57 | 0°15 | 19°47 | 4°5 | 5°12 | 28°42 | 7°23 | T 12 |
| F 13 | 13 25 23 | 23°12'23 | 24°51 | 28°33 | 28°49 | 11°1 | 4°16 | 19°56 | 6°55 | 0°14 | 19°49 | 4°3 | 5°8 | 28°48 | 7°26 | F 13 |
| S 14 | 13 29 19 | 24°10'57 | 6°H54 | 27°56 | 0°V3 | 11°48 | 4°23 | 19°51 | 6°54 | 0°12 | 19°50 | 4°D 3 | 5°5 | 28°55 | 7°30 | S 14 |
| S 15 | 13 33 16 | 25°9'29 | 18°46 | 27°17 | 1°16 | 12°34 | 4°30 | 19°47 | 6°52 | 0°11 | 19°51 | 4°3 | 5°2 | 29°2 | 7°34 | S 15 |
| M 16 | 13 37 12 | 26°8'00 | 0°H35 | 26°36 | 2°29 | 13°21 | 4°37 | 19°42 | 6°51 | 0°9 | 19°52 | 4°R 3 | 4°59 | 29°8 | 7°37 | M 16 |
| T 17 | 13 41 9 | 27°6'29 | 12°26 | 25°54 | 3°43 | 14°7 | 4°44 | 19°38 | 6°49 | 0°7 | 19°54 | 4°2 | 4°56 | 29°15 | 7°41 | T 17 |
| W 18 | 13 45 5 | 28°4'57 | 24°23 | 25°13 | 4°56 | 14°53 | 4°51 | 19°33 | 6°48 | 0°6 | 19°55 | 3°59 | 4°53 | 29°22 | 7°44 | W 18 |
| T 19 | 13 49 2 | 29°3'22 | 6°H31 | 24°32 | 6°9 | 15°39 | 4°57 | 19°28 | 6°47 | 0°4 | 19°56 | 3°53 | 4°49 | 29°28 | 7°48 | T 19 |
| F 20 | 13 52 58 | 0°B1'46 | 18°55 | 23°53 | 7°23 | 16°26 | 5°4 | 19°24 | 6°46 | 0°2 | 19°57 | 3°45 | 4°46 | 29°35 | 7°51 | F 20 |
| S 21 | 13 56 55 | 1°0'08 | 1°V36 | 23°15 | 8°36 | 17°12 | 5°10 | 19°20 | 6°44 | 0°1 | 19°59 | 3°35 | 4°43 | 29°42 | 7°55 | S 21 |
| S 22 | 14 0 52 | 1°58'29 | 14°36 | 22°41 | 9°49 | 17°58 | 5°16 | 19°15 | 6°43 | 29°H59 | 20°0 | 3°25 | 4°40 | 29°48 | 7°58 | S 22 |
| M 23 | 14 4 48 | 2°56'48 | 27°54 | 22°9 | 11°3 | 18°44 | 5°22 | 19°11 | 6°42 | 29°57 | 20°1 | 3°14 | 4°37 | 29°55 | 8°1 | M 23 |
| T 24 | 14 8 45 | 3°55'05 | 11°H29 | 21°42 | 12°16 | 19°31 | 5°28 | 19°6 | 6°41 | 29°56 | 20°2 | 3°5 | 4°33 | 0°H2 | 8°5 | T 24 |
| W 25 | 14 12 41 | 4°53'20 | 25°17 | 21°18 | 13°29 | 20°17 | 5°33 | 19°2 | 6°40 | 29°54 | 20°4 | 2°58 | 4°30 | 0°8 | 8°8 | W 25 |
| T 26 | 14 16 38 | 5°51'34 | 9°H16 | 20°58 | 14°43 | 21°3 | 5°39 | 18°58 | 6°39 | 29°53 | 20°5 | 2°53 | 4°27 | 0°15 | 8°12 | T 26 |
| F 27 | 14 20 34 | 6°49'46 | 23°21 | 20°43 | 15°56 | 21°49 | 5°44 | 18°53 | 6°38 | 29°51 | 20°6 | 2°51 | 4°24 | 0°22 | 8°15 | F 27 |
| S 28 | 14 24 31 | 7°47'55 | 7°H29 | 20°33 | 17°9 | 22°35 | 5°49 | 18°49 | 6°37 | 29°49 | 20°8 | 2°D50 | 4°21 | 0°28 | 8°18 | S 28 |
| S 29 | 14 28 27 | 8°46'03 | 21°40 | 20°27 | 18°23 | 23°21 | 5°54 | 18°45 | 6°36 | 29°48 | 20°9 | 2°51 | 4°18 | 0°35 | 8°21 | S 29 |
| M 30 | 14 32 24 | 9°H44'09 | 5°H49 | 20°D27 | 19°V36 | 24°H7 | 5°H59 | 18°H41 | 6°H36 | 29°H46 | 20°H10 | 2°R52 | 4°H14 | 0°H42 | 8°V25 | M 30 |

Delta T = 58.56 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1629

geocentric

MAY 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|------|------|------|------|
| T 1 | 14 36 21 | 10♌42'12 | 19♌57 | 20♌31 | 20♌49 | 24♌53 | 6♌3 | 18°R37 | 6°R35 | 29°R45 | 20♌12 | 2°R52 | 4♌11 | 0♌48 | 8♌28 | T 1 |
| W 2 | 14 40 17 | 11°40'14 | 4♌2 | 20°39 | 22°3 | 25°39 | 6°8 | 18♌33 | 6♌34 | 29♌43 | 20°13 | 2♌49 | 4°8 | 0°55 | 8°31 | W 2 |
| T 3 | 14 44 14 | 12°38'14 | 18°2 | 20°52 | 23°16 | 26°25 | 6°12 | 18°29 | 6°34 | 29°41 | 20°14 | 2°45 | 4°5 | 1°2 | 8°34 | T 3 |
| F 4 | 14 48 10 | 13°36'11 | 1♌54 | 21°10 | 24°29 | 27°11 | 6°16 | 18°25 | 6°33 | 29°40 | 20°16 | 2°39 | 4°2 | 1°8 | 8°37 | F 4 |
| S 5 | 14 52 7 | 14°34'07 | 15°38 | 21°32 | 25°43 | 27°57 | 6°20 | 18°21 | 6°33 | 29°38 | 20°17 | 2°32 | 3°59 | 1°15 | 8°41 | S 5 |
| S 6 | 14 56 3 | 15°32'02 | 29°8 | 21°59 | 26°56 | 28°42 | 6°23 | 18°17 | 6°32 | 29°37 | 20°18 | 2°24 | 3°55 | 1°22 | 8°44 | S 6 |
| M 7 | 15 0 0 | 16°29'54 | 12♌24 | 22°29 | 28°9 | 29°28 | 6°27 | 18°13 | 6°32 | 29°35 | 20°20 | 2°16 | 3°52 | 1°28 | 8°47 | M 7 |
| T 8 | 15 3 56 | 17°27'45 | 25°24 | 23°4 | 29°23 | 0♌14 | 6°30 | 18°9 | 6°31 | 29°34 | 20°21 | 2°10 | 3°49 | 1°35 | 8°50 | T 8 |
| W 9 | 15 7 53 | 18°25'35 | 8♌7 | 23°43 | 0♌36 | 1°0 | 6°33 | 18°6 | 6°31 | 29°32 | 20°23 | 2°5 | 3°46 | 1°42 | 8°53 | W 9 |
| T 10 | 15 11 50 | 19°23'23 | 20°34 | 24°25 | 1°49 | 1°45 | 6°36 | 18°2 | 6°31 | 29°30 | 20°24 | 2°3 | 3°43 | 1°48 | 8°56 | T 10 |
| F 11 | 15 15 46 | 20°21'11 | 2♌46 | 25°11 | 3°3 | 2°31 | 6°39 | 17°59 | 6°31 | 29°29 | 20°25 | 2°D 2 | 3°39 | 1°55 | 8°59 | F 11 |
| S 12 | 15 19 43 | 21°18'56 | 14°46 | 26°1 | 4°16 | 3°17 | 6°42 | 17°55 | 6°31 | 29°27 | 20°27 | 2°3 | 3°36 | 2°2 | 9°2 | S 12 |
| S 13 | 15 23 39 | 22°16'41 | 26°39 | 26°54 | 5°29 | 4°2 | 6°44 | 17°52 | 6°31 | 29°26 | 20°28 | 2°4 | 3°33 | 2°8 | 9°5 | S 13 |
| M14 | 15 27 36 | 23°14'24 | 8♌29 | 27°50 | 6°43 | 4°48 | 6°47 | 17°48 | 6°D30 | 29°25 | 20°29 | 2°6 | 3°30 | 2°15 | 9°8 | M14 |
| T 15 | 15 31 32 | 24°12'07 | 20°20 | 28°50 | 7°56 | 5°33 | 6°49 | 17°45 | 6°31 | 29°23 | 20°31 | 2°R 7 | 3°27 | 2°22 | 9°10 | T 15 |
| W16 | 15 35 29 | 25°9'48 | 2♌18 | 29°52 | 9°9 | 6°19 | 6°50 | 17°42 | 6°31 | 29°22 | 20°32 | 2°7 | 3°24 | 2°28 | 9°13 | W16 |
| T 17 | 15 39 25 | 26°7'28 | 14°28 | 0♌58 | 10°23 | 7°4 | 6°52 | 17°39 | 6°31 | 29°20 | 20°33 | 2°5 | 3°20 | 2°35 | 9°16 | T 17 |
| F 18 | 15 43 22 | 27°5'07 | 26°53 | 2°7 | 11°36 | 7°50 | 6°54 | 17°36 | 6°31 | 29°19 | 20°35 | 2°2 | 3°17 | 2°42 | 9°19 | F 18 |
| S 19 | 15 47 19 | 28°2'45 | 9♌39 | 3°18 | 12°50 | 8°35 | 6°55 | 17°33 | 6°31 | 29°17 | 20°36 | 1°58 | 3°14 | 2°48 | 9°21 | S 19 |
| S 20 | 15 51 15 | 29°0'22 | 22°46 | 4°32 | 14°3 | 9°20 | 6°56 | 17°30 | 6°31 | 29°16 | 20°37 | 1°53 | 3°11 | 2°55 | 9°24 | S 20 |
| M21 | 15 55 12 | 29°57'58 | 6♌16 | 5°49 | 15°16 | 10°5 | 6°57 | 17°27 | 6°32 | 29°15 | 20°39 | 1°47 | 3°8 | 3°2 | 9°27 | M21 |
| T 22 | 15 59 8 | 0♌55'33 | 20°7 | 7°9 | 16°30 | 10°51 | 6°58 | 17°25 | 6°32 | 29°13 | 20°40 | 1°43 | 3°4 | 3°8 | 9°29 | T 22 |
| W23 | 16 3 5 | 1°53'07 | 4♌16 | 8°31 | 17°43 | 11°36 | 6°58 | 17°22 | 6°33 | 29°12 | 20°41 | 1°40 | 3°1 | 3°15 | 9°32 | W23 |
| T 24 | 16 7 1 | 2°50'40 | 18°39 | 9°56 | 18°56 | 12°21 | 6°59 | 17°19 | 6°33 | 29°11 | 20°43 | 1°38 | 2°58 | 3°22 | 9°34 | T 24 |
| F 25 | 16 10 58 | 3°48'11 | 3♌10 | 11°24 | 20°10 | 13°6 | 6°R59 | 17°17 | 6°34 | 29°9 | 20°44 | 1°D37 | 2°55 | 3°28 | 9°37 | F 25 |
| S 26 | 16 14 54 | 4°45'42 | 17°44 | 12°54 | 21°23 | 13°51 | 6°59 | 17°15 | 6°34 | 29°8 | 20°45 | 1°38 | 2°52 | 3°35 | 9°39 | S 26 |
| S 27 | 16 18 51 | 5°43'11 | 2♌14 | 14°26 | 22°37 | 14°36 | 6°59 | 17°12 | 6°35 | 29°7 | 20°47 | 1°39 | 2°49 | 3°42 | 9°42 | S 27 |
| M28 | 16 22 48 | 6°40'39 | 16°38 | 16°2 | 23°50 | 15°21 | 6°58 | 17°10 | 6°36 | 29°6 | 20°48 | 1°40 | 2°45 | 3°48 | 9°44 | M28 |
| T 29 | 16 26 44 | 7°38'05 | 0♌52 | 17°39 | 25°4 | 16°6 | 6°58 | 17°8 | 6°36 | 29°4 | 20°49 | 1°41 | 2°42 | 3°55 | 9°46 | T 29 |
| W30 | 16 30 41 | 8°35'31 | 14°54 | 19°20 | 26°17 | 16°50 | 6°57 | 17°6 | 6°37 | 29°3 | 20°51 | 1°R41 | 2°39 | 4°2 | 9°48 | W30 |
| T 31 | 16 34 37 | 9♌32'55 | 28♌42 | 21♌2 | 27♌30 | 17♌35 | 6♌56 | 17♌4 | 6♌38 | 29♌2 | 20♌52 | 1♌40 | 2♌36 | 4♌8 | 9♌51 | T 31 |

Delta T = 58.50 sec

Greg. Calendar

JUNE 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|------|--------|-------|-------|------|------|-------|------|
| F 1 | 16 38 34 | 10♌30'17 | 12♌17 | 22♌48 | 28♌44 | 18♌20 | 6°R55 | 17°R 2 | 6♌39 | 29°R 1 | 20♌53 | 1°R38 | 2♌33 | 4♌15 | 9♌53 | F 1 |
| S 2 | 16 42 30 | 11°27'39 | 25°37 | 24°35 | 29°57 | 19°4 | 6♌53 | 17♌0 | 6°40 | 29♌0 | 20°55 | 1♌36 | 2°30 | 4°22 | 9°55 | S 2 |
| S 3 | 16 46 27 | 12°25'00 | 8♌44 | 26°26 | 1♌11 | 19°49 | 6°52 | 16°59 | 6°41 | 28°59 | 20°56 | 1°33 | 2°26 | 4°28 | 9°57 | S 3 |
| M 4 | 16 50 23 | 13°22'19 | 21°37 | 28°18 | 2°24 | 20°33 | 6°50 | 16°57 | 6°42 | 28°58 | 20°57 | 1°30 | 2°23 | 4°35 | 9°59 | M 4 |
| T 5 | 16 54 20 | 14°19'38 | 4♌16 | 0♌13 | 3°38 | 21°18 | 6°48 | 16°56 | 6°43 | 28°57 | 20°58 | 1°28 | 2°20 | 4°42 | 10°1 | T 5 |
| W 6 | 16 58 17 | 15°16'56 | 16°42 | 2°10 | 4°51 | 22°2 | 6°46 | 16°54 | 6°45 | 28°56 | 21°0 | 1°27 | 2°17 | 4°48 | 10°3 | W 6 |
| T 7 | 17 2 13 | 16°14'14 | 28°56 | 4°10 | 6°4 | 22°47 | 6°44 | 16°53 | 6°46 | 28°55 | 21°1 | 1°D26 | 2°14 | 4°55 | 10°5 | T 7 |
| F 8 | 17 6 10 | 17°11'31 | 11♌1 | 6°11 | 7°18 | 23°31 | 6°41 | 16°52 | 6°47 | 28°54 | 21°2 | 1°27 | 2°10 | 5°2 | 10°7 | F 8 |
| S 9 | 17 10 6 | 18°8'47 | 22°57 | 8°15 | 8°31 | 24°15 | 6°39 | 16°51 | 6°48 | 28°53 | 21°3 | 1°27 | 2°7 | 5°8 | 10°9 | S 9 |
| S 10 | 17 14 3 | 19°6'03 | 4♌48 | 10°20 | 9°45 | 24°59 | 6°36 | 16°50 | 6°50 | 28°52 | 21°5 | 1°28 | 2°4 | 5°15 | 10°10 | S 10 |
| M11 | 17 17 59 | 20°3'18 | 16°37 | 12°27 | 10°58 | 25°43 | 6°33 | 16°49 | 6°51 | 28°51 | 21°6 | 1°29 | 2°1 | 5°22 | 10°12 | M11 |
| T 12 | 17 21 56 | 21°0'33 | 28°29 | 14°35 | 12°12 | 26°27 | 6°30 | 16°48 | 6°53 | 28°50 | 21°7 | 1°30 | 1°58 | 5°28 | 10°14 | T 12 |
| W13 | 17 25 53 | 21°57'48 | 10♌27 | 16°45 | 13°25 | 27°11 | 6°26 | 16°48 | 6°54 | 28°49 | 21°8 | 1°31 | 1°55 | 5°35 | 10°16 | W13 |
| T 14 | 17 29 49 | 22°55'02 | 22°36 | 18°55 | 14°39 | 27°55 | 6°23 | 16°47 | 6°56 | 28°48 | 21°9 | 1°R31 | 1°51 | 5°42 | 10°17 | T 14 |
| F 15 | 17 33 46 | 23°52'16 | 5♌0 | 21°6 | 15°52 | 28°39 | 6°19 | 16°46 | 6°57 | 28°48 | 21°11 | 1°31 | 1°48 | 5°48 | 10°19 | F 15 |
| S 16 | 17 37 42 | 24°49'30 | 17°44 | 23°18 | 17°6 | 29°23 | 6°15 | 16°46 | 6°59 | 28°47 | 21°12 | 1°31 | 1°45 | 5°55 | 10°20 | S 16 |
| S 17 | 17 41 39 | 25°46'44 | 0♌51 | 25°29 | 18°19 | 0♌7 | 6°11 | 16°46 | 7°1 | 28°46 | 21°13 | 1°30 | 1°42 | 6°2 | 10°22 | S 17 |
| M18 | 17 45 35 | 26°43'58 | 14°23 | 27°41 | 19°33 | 0°50 | 6°7 | 16°46 | 7°3 | 28°45 | 21°14 | 1°29 | 1°39 | 6°8 | 10°23 | M18 |
| T 19 | 17 49 32 | 27°41'12 | 28°19 | 29°52 | 20°47 | 1°34 | 6°2 | 16°D45 | 7°4 | 28°45 | 21°15 | 1°29 | 1°36 | 6°15 | 10°24 | T 19 |
| W20 | 17 53 28 | 28°38'26 | 12♌40 | 29°2 | 22°0 | 2°17 | 5°58 | 16°45 | 7°6 | 28°44 | 21°16 | 1°29 | 1°32 | 6°22 | 10°26 | W20 |
| T 21 | 17 57 25 | 29°35'39 | 27°19 | 4°11 | 23°14 | 3°1 | 5°53 | 16°46 | 7°8 | 28°44 | 21°17 | 1°D29 | 1°29 | 6°28 | 10°27 | T 21 |
| F 22 | 18 1 22 | 0♌32'53 | 12♌11 | 6°19 | 24°27 | 3°44 | 5°48 | 16°46 | 7°10 | 28°43 | 21°18 | 1°29 | 1°26 | 6°35 | 10°28 | F 22 |
| S 23 | 18 5 18 | 1°30'06 | 27°8 | 8°26 | 25°41 | 4°27 | 5°43 | 16°46 | 7°12 | 28°42 | 21°20 | 1°R29 | 1°23 | 6°42 | 10°29 | S 23 |
| S 24 | 18 9 15 | 2°27'18 | 12♌2 | 10°32 | 26°55 | 5°11 | 5°38 | 16°46 | 7°14 | 28°42 | 21°21 | 1°29 | 1°20 | 6°48 | 10°30 | S 24 |
| M25 | 18 13 11 | 3°24'31 | 26°46 | 12°36 | 28°8 | 5°54 | 5°33 | 16°47 | 7°16 | 28°41 | 21°22 | 1°29 | 1°16 | 6°55 | 10°31 | M25 |
| T 26 | 18 17 8 | 4°21'42 | 11♌14 | 14°38 | 29°22 | 6°37 | 5°27 | 16°48 | 7°18 | 28°41 | 21°23 | 1°28 | 1°13 | 7°2 | 10°32 | T 26 |
| W27 | 18 21 4 | 5°18'54 | 25°23 | 16°38 | 0♌36 | 7°20 | 5°21 | 16°48 | 7°21 | 28°40 | 21°24 | 1°28 | 1°10 | 7°8 | 10°33 | W27 |
| T 28 | 18 25 1 | 6°16'05 | 9♌10 | 18°37 | 1°49 | 8°3 | 5°16 | 16°49 | 7°23 | 28°40 | 21°25 | 1°D28 | 1°7 | 7°15 | 10°34 | T 28 |
| F 29 | 18 28 57 | 7°13'16 | 22°37 | 20°33 | 3°3 | 8°45 | 5°10 | 16°50 | 7°25 | 28°40 | 21°26 | 1°28 | 1°4 | 7°22 | 10°35 | F 29 |
| S 30 | 18 32 54 | 8♌10'26 | 5♌44 | 22°28 | 4♌17 | 9♌28 | 5♌4 | 16♌51 | 7♌27 | 28♌39 | 21♌27 | 1♌29 | 1♌1 | 7♌28 | 10♌36 | S 30 |

Delta T = 58.43 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1629

geocentric

JULY 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------|----------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------|------------|--------------|----------|--------------|---------------|--------|-----|
| S 1 | 18 36 51 | 9°57'37" | 18°33'33" | 24°52'20" | 5°53'30" | 10°8'11" | 4°R58 | 16°52'52" | 7°30'30" | 28°R39 | 21°8'28" | 1°52'29" | 0°57'57" | 7°35'35" | 10°Y36 | S 1 |
| M 2 | 18 40 47 | 10° 4'47" | 1°57' 7" | 26°11' 6" | 6°44' 10" | 10°53' 4" | 4°51' 16" | 16°53' 7" | 7°32' 28" | 28°39' 21" | 21°29' 1°30' | 0°54' 7" | 7°42' 10°37' | 10°37' 10°37' | M 2 | |
| T 3 | 18 44 44 | 11° 1'57" | 13°29' 28" | 0° 7°58' | 11°36' 4°45' | 16°55' 7°35' | 28°39' 21°30' | 1°31' 0°51' | 7°48' 10°38' | T 3 | | | | | | |
| W 4 | 18 48 40 | 11°59'08" | 25°40' 29°47' | 9°12' 12°18' | 4°38' 16°56' | 7°37' 28°38' | 21°31' 1°R31' | 0°48' 7°55' | 10°38' 10°38' | W 4 | | | | | | |
| T 5 | 18 52 37 | 12°56'18" | 7°34'21" | 1°32' 10°25' | 13° 1° 4°32' | 16°57' 7°40' | 28°38' 21°32' | 1°31' 0°45' | 8° 2° 10°39' | T 5 | | | | | | |
| F 6 | 18 56 33 | 13°53'29" | 19°39' 3°14' | 11°39' 13°43' | 4°25' 16°59' | 7°42' 28°38' | 21°32' 1°31' | 0°42' 8° 8° 10°39' | F 6 | | | | | | | |
| S 7 | 19 0 30 | 14°50'40" | 1°33'30" | 4°55' 12°53' | 14°25' 4°18' | 17° 1° 7°45' | 28°38' 21°33' | 1°29' 0°38' | 8°15' 10°40' | S 7 | | | | | | |
| S 8 | 19 4 26 | 15°47'51" | 13°20' 6°34' | 14° 7° 15° 7° 4°11' | 17° 2° 7°47' | 28°38' 21°34' | 1°28' 0°35' | 8°22' 10°40' | S 8 | | | | | | | |
| M 9 | 19 8 23 | 16°45'03" | 25°10' 8°11' | 15°20' 15°49' | 4° 4° 17° 4° 7°50' | 28°38' 21°35' | 1°25' 0°32' | 8°28' 10°40' | M 9 | | | | | | | |
| T 10 | 19 12 20 | 17°42'15" | 7°34' 3° 9°46' | 16°34' 16°31' | 3°57' 17° 6° 7°53' | 28°D38' 21°36' | 1°23' 0°29' | 8°35' 10°41' | T 10 | | | | | | | |
| W11 | 19 16 16 | 18°39'27" | 19° 2° 11°19' | 17°48' 17°13' | 3°50' 17° 8° 7°55' | 28°38' 21°37' | 1°21' 0°26' | 8°42' 10°41' | W11 | | | | | | | |
| T 12 | 19 20 13 | 19°36'41" | 1°Y11' | 12°49' 19° 2° 17°54' | 3°43' 17°10' | 7°58' 28°38' | 21°37' 1°19' | 0°22' 8°48' | 10°41' 10°41' | T 12 | | | | | | |
| F 13 | 19 24 9 | 20°33'55" | 13°34' 14°18' | 20°16' 18°36' | 3°35' 17°13' | 8° 1° 28°38' | 21°38' 1°18' | 0°19' 8°55' | 10°41' 10°41' | F 13 | | | | | | |
| S 14 | 19 28 6 | 21°31'09" | 26°14' 15°45' | 21°30' 19°18' | 3°28' 17°15' | 8° 4° 28°38' | 21°39' 1°D18' | 0°16' 9° 2° 10°R41' | S 14 | | | | | | | |
| S 15 | 19 32 2 | 22°28'25" | 9°8'16" | 17°10' 22°43' | 19°59' 3°20' | 17°17' 8° 7° 28°38' | 21°40' 1°19' | 0°13' 9° 8° 10°41' | S 15 | | | | | | | |
| M16 | 19 35 59 | 23°25'41" | 22°42' 18°32' | 23°57' 20°40' | 3°13' 17°20' | 8°10' 28°38' | 21°41' 1°20' | 0°10' 9°15' | 10°41' 10°41' | M16 | | | | | | |
| T 17 | 19 39 55 | 24°22'59" | 6°II35' | 19°53' 25°11' | 21°22' 3° 5° 17°23' | 8°13' 28°38' | 21°41' 1°22' | 0° 7° 9°22' | 10°41' 10°41' | T 17 | | | | | | |
| W18 | 19 43 52 | 25°20'17" | 20°54' 21°11' | 26°25' 22° 3° 2°58' | 17°25' 8°16' | 28°39' 21°42' | 1°23' 0° 3° 9°28' | 10°41' 10°41' | W18 | | | | | | | |
| T 19 | 19 47 49 | 26°17'36" | 5°53'6" | 22°27' 27°39' | 22°44' 2°50' | 17°28' 8°19' | 28°39' 21°43' | 1°R23' 0° 0° 9°35' | 10°40' 10°40' | T 19 | | | | | | |
| F 20 | 19 51 45 | 27°14'56" | 20°37' 23°41' | 28°53' 23°25' | 2°42' 17°31' | 8°22' 28°39' | 21°43' 1°22' | 29°II57' 9°42' | 10°40' 10°40' | F 20 | | | | | | |
| S 21 | 19 55 42 | 28°12'16" | 5°II48' | 24°53' 0°II 7° 24° 6° 2°35' | 17°34' 8°25' | 28°40' 21°44' | 1°20' 29°54' | 9°48' 10°40' | S 21 | | | | | | | |
| S 22 | 19 59 38 | 29° 9'37" | 20°59' 26° 2° 1°21' | 24°46' 2°27' | 17°37' 8°28' | 28°40' 21°45' | 1°16' 29°51' | 9°55' 10°39' | S 22 | | | | | | | |
| M23 | 20 3 35 | 0°II 6°59' | 6°II 1° 27° 8° 2°35' | 25°27' 2°19' | 17°40' 8°31' | 28°40' 21°45' | 1°13' 29°48' | 10° 2° 10°39' | M23 | | | | | | | |
| T 24 | 20 7 31 | 1° 4'21" | 20°46' 28°13' | 3°49' 26° 7° 2°11' | 17°43' 8°34' | 28°41' 21°46' | 1° 9° 29°44' | 10° 9° 10°38' | T 24 | | | | | | | |
| W25 | 20 11 28 | 2° 1°44' | 5°54' 6° 29°14' | 5° 3° 26°48' | 2° 3° 17°47' | 8°37' 28°41' | 21°46' 1° 5° 29°41' | 10°15' 10°38' | W25 | | | | | | | |
| T 26 | 20 15 24 | 2°59'07" | 19° 0° 0°II12' | 6°17' 27°28' | 1°56' 17°50' | 8°41' 28°42' | 21°47' 1° 3° 29°38' | 10°22' 10°37' | T 26 | | | | | | | |
| F 27 | 20 19 21 | 3°56'31" | 2°II27' | 1° 8° 7°31' | 28° 8° 1°48' | 17°54' 8°44' | 28°42' 21°47' | 1°D 2° 29°35' | 10°29' 10°36' | F 27 | | | | | | |
| S 28 | 20 23 18 | 4°53'56" | 15°30' 2° 1° 8°45' | 28°48' 1°40' | 17°57' 8°47' | 28°43' 21°48' | 1° 3° 29°32' | 10°35' 10°36' | S 28 | | | | | | | |
| S 29 | 20 27 14 | 5°51'21" | 28°11' 2°50' | 9°59' 29°28' | 1°32' 18° 1° 8°50' | 28°43' 21°48' | 1° 4° 29°28' | 10°42' 10°35' | S 29 | | | | | | | |
| M30 | 20 31 11 | 6°48'47" | 10°57'35' | 3°36' 11°13' | 0°II 8° 1°25' | 18° 5° 8°54' | 28°44' 21°49' | 1° 6° 29°25' | 10°49' 10°34' | M30 | | | | | | |
| T 31 | 20 35 7 | 7°II46'14" | 22°57'45" | 4°II19' | 12°II27' | 0°II48' | 1°57' 18°54' | 8°II57' | 28°45' | 21°49' | 1°57' | 29°II22' | 10°55' | 10°Y33' | T 31 | |

Delta T = 58.36 sec

Greg. Calendar

AUGUST 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|--------|------|
| W 1 | 20 39 4 | 8♠43'42 | 4♂45 | 4♠57 | 13♠41 | 1♠28 | 1°R 9 | 18♠12 | 9♠0 | 28♠45 | 21♂50 | 1°R 7 | 29♠19 | 11♠2 | 10°R32 | W 1 |
| T 2 | 20 43 0 | 9°41'10 | 16°39 | 5°32 | 14°55 | 2° 7 | 1♠2 | 18°16 | 9° 4 | 28°46 | 21°50 | 1♂6 | 29°16 | 11° 9 | 10°Y31 | T 2 |
| F 3 | 20 46 57 | 10°38'40 | 28°30 | 6° 3 | 16° 9 | 2°46 | 0°54 | 18°20 | 9° 7 | 28°47 | 21°51 | 1° 3 | 29°13 | 11°15 | 10°30 | F 3 |
| S 4 | 20 50 54 | 11°36'11 | 10♠19 | 6°30 | 17°23 | 3°26 | 0°46 | 18°24 | 9°11 | 28°48 | 21°51 | 0°58 | 29° 9 | 11°22 | 10°29 | S 4 |
| S 5 | 20 54 50 | 12°33'42 | 22°10 | 6°52 | 18°38 | 4° 5 | 0°39 | 18°29 | 9°14 | 28°48 | 21°51 | 0°51 | 29° 6 | 11°29 | 10°28 | S 5 |
| M 6 | 20 58 47 | 13°31'15 | 4♂3 | 7°10 | 19°52 | 4°44 | 0°32 | 18°33 | 9°17 | 28°49 | 21°52 | 0°44 | 29° 3 | 11°35 | 10°27 | M 6 |
| T 7 | 21 2 43 | 14°28'49 | 16° 1 | 7°22 | 21° 6 | 5°23 | 0°24 | 18°37 | 9°21 | 28°50 | 21°52 | 0°36 | 29° 0 | 11°42 | 10°26 | T 7 |
| W 8 | 21 6 40 | 15°26'24 | 28° 6 | 7°30 | 22°20 | 6° 2 | 0°17 | 18°42 | 9°24 | 28°51 | 21°52 | 0°28 | 28°57 | 11°49 | 10°24 | W 8 |
| T 9 | 21 10 36 | 16°24'01 | 10°Y19 | 7°R32 | 23°34 | 6°40 | 0°10 | 18°46 | 9°28 | 28°52 | 21°53 | 0°22 | 28°54 | 11°55 | 10°23 | T 9 |
| F 10 | 21 14 33 | 17°21'40 | 22°44 | 7°29 | 24°48 | 7°19 | 0° 3 | 18°51 | 9°32 | 28°53 | 21°53 | 0°17 | 28°50 | 12° 2 | 10°22 | F 10 |
| S 11 | 21 18 29 | 18°19'19 | 5♂24 | 7°20 | 26° 2 | 7°57 | 29♂55 | 18°55 | 9°35 | 28°54 | 21°53 | 0°14 | 28°47 | 12° 9 | 10°20 | S 11 |
| S 12 | 21 22 26 | 19°17'01 | 18°21 | 7° 5 | 27°17 | 8°36 | 29°49 | 19° 0 | 9°39 | 28°55 | 21°53 | 0°D13 | 28°44 | 12°15 | 10°19 | S 12 |
| M13 | 21 26 22 | 20°14'44 | 1♠40 | 6°45 | 28°31 | 9°14 | 29°42 | 19° 5 | 9°42 | 28°56 | 21°53 | 0°14 | 28°41 | 12°22 | 10°17 | M13 |
| T 14 | 21 30 19 | 21°12'29 | 15°23 | 6°20 | 29°45 | 9°52 | 29°35 | 19°10 | 9°46 | 28°57 | 21°54 | 0°15 | 28°38 | 12°29 | 10°16 | T 14 |
| W15 | 21 34 16 | 22°10'16 | 29°32 | 5°48 | 0♠59 | 10°30 | 29°28 | 19°15 | 9°50 | 28°58 | 21°54 | 0°R15 | 28°34 | 12°35 | 10°14 | W15 |
| T 16 | 21 38 12 | 23° 8'04 | 14♂5 | 5°12 | 2°13 | 11° 7 | 29°22 | 19°20 | 9°53 | 28°59 | 21°54 | 0°15 | 28°31 | 12°42 | 10°12 | T 16 |
| F 17 | 21 42 9 | 24° 5'54 | 29° 0 | 4°31 | 3°28 | 11°45 | 29°15 | 19°25 | 9°57 | 29° 0 | 21°54 | 0°12 | 28°28 | 12°49 | 10°11 | F 17 |
| S 18 | 21 46 5 | 25° 3'45 | 14♠9 | 3°45 | 4°42 | 12°22 | 29° 9 | 19°30 | 10° 1 | 29° 2 | 21°54 | 0° 7 | 28°25 | 12°56 | 10° 9 | S 18 |
| S 19 | 21 50 2 | 26° 1'38 | 29°24 | 2°56 | 5°56 | 13° 0 | 29° 3 | 19°35 | 10° 4 | 29° 3 | 21°54 | 29♠59 | 28°22 | 13° 2 | 10° 7 | S 19 |
| M20 | 21 53 58 | 26°59'33 | 14♠34 | 2° 4 | 7°10 | 13°37 | 28°57 | 19°40 | 10° 8 | 29° 4 | 21°54 | 29°51 | 28°19 | 13° 9 | 10° 5 | M20 |
| T 21 | 21 57 55 | 27°57'29 | 29°28 | 1°10 | 8°24 | 14°14 | 28°51 | 19°46 | 10°12 | 29° 5 | 21°54 | 29°42 | 28°15 | 13°16 | 10° 3 | T 21 |
| W22 | 22 1 51 | 28°55'26 | 13♠58 | 0°15 | 9°39 | 14°51 | 28°45 | 19°51 | 10°15 | 29° 7 | 21°R54 | 29°35 | 28°12 | 13°22 | 10° 2 | W22 |
| T 23 | 22 5 48 | 29°53'25 | 28° 0 | 29♠20 | 10°53 | 15°27 | 28°39 | 19°57 | 10°19 | 29° 8 | 21°54 | 29°29 | 28° 9 | 13°29 | 10° 0 | T 23 |
| F 24 | 22 9 45 | 0♠51'24 | 11♠33 | 28°26 | 12° 7 | 16° 4 | 28°34 | 20° 2 | 10°23 | 29° 9 | 21°54 | 29°25 | 28° 6 | 13°36 | 9°58 | F 24 |
| S 25 | 22 13 41 | 1°49'26 | 24°38 | 27°35 | 13°21 | 16°40 | 28°28 | 20° 8 | 10°26 | 29°11 | 21°54 | 29°23 | 28° 3 | 13°42 | 9°56 | S 25 |
| S 26 | 22 17 38 | 2°47'29 | 7♂18 | 26°47 | 14°36 | 17°17 | 28°23 | 20°13 | 10°30 | 29°12 | 21°54 | 29°D23 | 28° 0 | 13°49 | 9°53 | S 26 |
| M27 | 22 21 34 | 3°45'33 | 19°38 | 26° 4 | 15°50 | 17°53 | 28°18 | 20°19 | 10°34 | 29°13 | 21°54 | 29°23 | 27°56 | 13°56 | 9°51 | M27 |
| T 28 | 22 25 31 | 4°43'38 | 1♂44 | 25°27 | 17° 4 | 18°29 | 28°13 | 20°25 | 10°38 | 29°15 | 21°54 | 29°R24 | 27°53 | 14° 2 | 9°49 | T 28 |
| W29 | 22 29 27 | 5°41'45 | 13°39 | 24°57 | 18°19 | 19° 4 | 28° 9 | 20°31 | 10°41 | 29°16 | 21°54 | 29°23 | 27°50 | 14° 9 | 9°47 | W29 |
| T 30 | 22 33 24 | 6°39'54 | 25°30 | 24°33 | 19°33 | 19°40 | 28° 4 | 20°36 | 10°45 | 29°18 | 21°53 | 29°19 | 27°47 | 14°16 | 9°45 | T 30 |
| F 31 | 22 37 20 | 7♠38'04 | 7♠18 | 24♠18 | 20♠47 | 20♠15 | 28♂0 | 20♠42 | 10♠49 | 29♠19 | 21♂53 | 29♠14 | 27♠44 | 14♠22 | 9°Y43 | F 31 |

Delta T = 58.29 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1629
geocentric

SEPTEMBER 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|-------|--------|--------|-------|-------|-------|------|
| S 1 | 22 41 17 | 8♍36°16 | 19♋9 | 24°D11 | 22♍1 | 20♏50 | 27°R55 | 20♏48 | 10♍53 | 29♏21 | 21°R53 | 29°R 5 | 27♏40 | 14♋29 | 9°R40 | S 1 |
| S 2 | 22 45 14 | 9°34'29 | 1♋3 | 24♏13 | 23°16 | 21°25 | 27♋51 | 20°54 | 10°57 | 29°23 | 21♋53 | 28♏54 | 27°37 | 14°36 | 9°Y38 | S 2 |
| M 3 | 22 49 10 | 10°32'44 | 13° 3 | 24°24 | 24°30 | 22° 0 | 27°47 | 21° 0 | 11° 0 | 29°24 | 21°53 | 28°42 | 27°34 | 14°42 | 9°36 | M 3 |
| T 4 | 22 53 7 | 11°31'01 | 25°10 | 24°44 | 25°44 | 22°35 | 27°44 | 21° 7 | 11° 4 | 29°26 | 21°52 | 28°29 | 27°31 | 14°49 | 9°33 | T 4 |
| W 5 | 22 57 3 | 12°29'20 | 7°Y25 | 25°13 | 26°58 | 23° 9 | 27°40 | 21°13 | 11° 8 | 29°27 | 21°52 | 28°16 | 27°28 | 14°56 | 9°31 | W 5 |
| T 6 | 23 1 0 | 13°27'40 | 19°49 | 25°50 | 28°13 | 23°44 | 27°37 | 21°19 | 11°12 | 29°29 | 21°52 | 28° 5 | 27°25 | 15° 3 | 9°28 | T 6 |
| F 7 | 23 4 56 | 14°26'03 | 2♋23 | 26°36 | 29°27 | 24°18 | 27°34 | 21°25 | 11°15 | 29°31 | 21°51 | 27°57 | 27°21 | 15° 9 | 9°26 | F 7 |
| S 8 | 23 8 53 | 15°24'28 | 15° 9 | 27°30 | 0♏41 | 24°52 | 27°31 | 21°31 | 11°19 | 29°33 | 21°51 | 27°51 | 27°18 | 15°16 | 9°23 | S 8 |
| S 9 | 23 12 49 | 16°22'55 | 28° 9 | 28°31 | 1°55 | 25°25 | 27°28 | 21°38 | 11°23 | 29°34 | 21°51 | 27°48 | 27°15 | 15°23 | 9°21 | S 9 |
| M10 | 23 16 46 | 17°21'24 | 11♏26 | 29°39 | 3°10 | 25°59 | 27°25 | 21°44 | 11°27 | 29°36 | 21°50 | 27°47 | 27°12 | 15°29 | 9°18 | M10 |
| T 11 | 23 20 43 | 18°19'56 | 25° 2 | 0♍54 | 4°24 | 26°32 | 27°23 | 21°51 | 11°30 | 29°38 | 21°50 | 27°47 | 27° 9 | 15°36 | 9°16 | T 11 |
| W12 | 23 24 39 | 19°18'29 | 8♋59 | 2°14 | 5°38 | 27° 5 | 27°20 | 21°57 | 11°34 | 29°40 | 21°50 | 27°46 | 27° 5 | 15°43 | 9°13 | W12 |
| T 13 | 23 28 36 | 20°17'05 | 23°17 | 3°40 | 6°53 | 27°38 | 27°18 | 22° 4 | 11°38 | 29°41 | 21°49 | 27°45 | 27° 2 | 15°49 | 9°11 | T 13 |
| F 14 | 23 32 32 | 21°15'44 | 7♏56 | 5°10 | 8° 7 | 28°11 | 27°16 | 22°10 | 11°42 | 29°43 | 21°49 | 27°41 | 26°59 | 15°56 | 9° 8 | F 14 |
| S 15 | 23 36 29 | 22°14'24 | 22°49 | 6°44 | 9°21 | 28°43 | 27°15 | 22°17 | 11°45 | 29°45 | 21°48 | 27°34 | 26°56 | 16° 3 | 9° 5 | S 15 |
| S 16 | 23 40 25 | 23°13'06 | 7♍51 | 8°22 | 10°35 | 29°16 | 27°13 | 22°23 | 11°49 | 29°47 | 21°48 | 27°24 | 26°53 | 16° 9 | 9° 3 | S 16 |
| M17 | 23 44 22 | 24°11'51 | 22°52 | 10° 2 | 11°50 | 29°48 | 27°12 | 22°30 | 11°53 | 29°49 | 21°47 | 27°13 | 26°50 | 16°16 | 9° 0 | M17 |
| T 18 | 23 48 18 | 25°10'37 | 7♏42 | 11°45 | 13° 4 | 0♋19 | 27°11 | 22°37 | 11°57 | 29°51 | 21°47 | 27° 2 | 26°46 | 16°23 | 8°57 | T 18 |
| W19 | 23 52 15 | 26° 9'25 | 22°13 | 13°30 | 14°18 | 0°51 | 27°10 | 22°43 | 12° 0 | 29°53 | 21°46 | 26°51 | 26°43 | 16°30 | 8°54 | W19 |
| T 20 | 23 56 12 | 27° 8'16 | 6♍18 | 15°16 | 15°33 | 1°22 | 27° 9 | 22°50 | 12° 4 | 29°55 | 21°45 | 26°42 | 26°40 | 16°36 | 8°52 | T 20 |
| F 21 | 0 0 8 | 28° 7'08 | 19°54 | 17° 3 | 16°47 | 1°53 | 27° 9 | 22°57 | 12° 8 | 29°57 | 21°45 | 26°36 | 26°37 | 16°43 | 8°49 | F 21 |
| S 22 | 0 4 5 | 29° 6'02 | 3♌3 | 18°51 | 18° 1 | 2°24 | 27° 9 | 23° 4 | 12°11 | 29°59 | 21°44 | 26°32 | 26°34 | 16°50 | 8°46 | S 22 |
| S 23 | 0 8 1 | 0♏45'7 | 15°46 | 20°40 | 19°15 | 2°55 | 27°D 8 | 23°11 | 12°15 | 0♍1 | 21°44 | 26°31 | 26°31 | 16°56 | 8°43 | S 23 |
| M24 | 0 11 58 | 1° 3'55 | 28° 8 | 22°28 | 20°30 | 3°25 | 27° 9 | 23°18 | 12°19 | 0° 3 | 21°43 | 26°31 | 26°27 | 17° 3 | 8°41 | M24 |
| T 25 | 0 15 54 | 2° 2'54 | 10♋14 | 24°17 | 21°44 | 3°55 | 27° 9 | 23°24 | 12°22 | 0° 5 | 21°42 | 26°31 | 26°24 | 17°10 | 8°38 | T 25 |
| W26 | 0 19 51 | 3° 1'55 | 22° 9 | 26° 6 | 22°58 | 4°25 | 27° 9 | 23°31 | 12°26 | 0° 7 | 21°42 | 26°29 | 26°21 | 17°16 | 8°35 | W26 |
| T 27 | 0 23 47 | 4° 0'58 | 3♋59 | 27°54 | 24°12 | 4°54 | 27°10 | 23°38 | 12°29 | 0° 9 | 21°41 | 26°26 | 26°18 | 17°23 | 8°32 | T 27 |
| F 28 | 0 27 44 | 5° 0'03 | 15°48 | 29°43 | 25°27 | 5°23 | 27°11 | 23°45 | 12°33 | 0°11 | 21°40 | 26°20 | 26°15 | 17°30 | 8°29 | F 28 |
| S 29 | 0 31 41 | 5°59'09 | 27°41 | 1♏30 | 26°41 | 5°52 | 27°12 | 23°52 | 12°36 | 0°13 | 21°39 | 26°12 | 26°11 | 17°36 | 8°27 | S 29 |
| S 30 | 0 35 37 | 6♏58'17 | 9♋41 | 3♏17 | 27♏55 | 6♋21 | 27♋13 | 23♏59 | 12♍40 | 0♍15 | 21♋39 | 26♏1 | 26♏8 | 17♋43 | 8°Y24 | S 30 |

Delta T = 58.23 sec

Greg. Calendar

OCTOBER 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|-------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|-------|------|
| M 1 | 0 39 34 | 7♏57'27 | 21♋49 | 5♏4 | 29♏9 | 6♋49 | 27♋15 | 24♏6 | 12♍44 | 0♍17 | 21°R38 | 25°R48 | 26♏5 | 17♋50 | 8°R21 | M 1 |
| T 2 | 0 43 30 | 8°56'40 | 4°Y 8 | 6°49 | 0♍23 | 7°17 | 27°16 | 24°14 | 12°47 | 0°19 | 21♋37 | 25♏34 | 26° 2 | 17°56 | 8°Y18 | T 2 |
| W 3 | 0 47 27 | 9°55'54 | 16°38 | 8°35 | 1°38 | 7°45 | 27°18 | 24°21 | 12°50 | 0°21 | 21°36 | 25°21 | 25°59 | 18° 3 | 8°15 | W 3 |
| T 4 | 0 51 23 | 10°55'10 | 29°18 | 10°19 | 2°52 | 8°12 | 27°20 | 24°28 | 12°54 | 0°23 | 21°36 | 25°10 | 25°56 | 18°10 | 8°13 | T 4 |
| F 5 | 0 55 20 | 11°54'29 | 12♋9 | 12° 3 | 4° 6 | 8°39 | 27°23 | 24°35 | 12°57 | 0°26 | 21°35 | 25° 1 | 25°52 | 18°17 | 8°10 | F 5 |
| S 6 | 0 59 16 | 12°53'49 | 25°11 | 13°46 | 5°20 | 9° 6 | 27°25 | 24°42 | 13° 1 | 0°28 | 21°34 | 24°55 | 25°49 | 18°23 | 8° 7 | S 6 |
| S 7 | 1 3 13 | 13°53'12 | 8♏25 | 15°28 | 6°34 | 9°33 | 27°28 | 24°49 | 13° 4 | 0°30 | 21°33 | 24°51 | 25°46 | 18°30 | 8° 4 | S 7 |
| M 8 | 1 7 9 | 14°52'38 | 21°50 | 17° 9 | 7°48 | 9°59 | 27°30 | 24°56 | 13° 8 | 0°32 | 21°32 | 24°D50 | 25°43 | 18°37 | 8° 1 | M 8 |
| T 9 | 1 11 6 | 15°52'06 | 5♋28 | 18°50 | 9° 3 | 10°24 | 27°33 | 25° 4 | 13°11 | 0°34 | 21°31 | 24°51 | 25°40 | 18°43 | 7°59 | T 9 |
| W10 | 1 15 3 | 16°51'36 | 19°20 | 20°30 | 10°17 | 10°50 | 27°37 | 25°11 | 13°14 | 0°36 | 21°30 | 24°R51 | 25°37 | 18°50 | 7°56 | W10 |
| T 11 | 1 18 59 | 17°51'08 | 3♏27 | 22°10 | 11°31 | 11°15 | 27°40 | 25°18 | 13°17 | 0°39 | 21°30 | 24°50 | 25°33 | 18°57 | 7°53 | T 11 |
| F 12 | 1 22 56 | 18°50'43 | 17°47 | 23°49 | 12°45 | 11°40 | 27°44 | 25°25 | 13°21 | 0°41 | 21°29 | 24°47 | 25°30 | 19° 3 | 7°50 | F 12 |
| S 13 | 1 26 52 | 19°50'20 | 2♍19 | 25°27 | 13°59 | 12° 4 | 27°47 | 25°32 | 13°24 | 0°43 | 21°28 | 24°41 | 25°27 | 19°10 | 7°47 | S 13 |
| S 14 | 1 30 49 | 20°49'59 | 16°57 | 27° 4 | 15°13 | 12°28 | 27°51 | 25°40 | 13°27 | 0°45 | 21°27 | 24°33 | 25°24 | 19°17 | 7°45 | S 14 |
| M15 | 1 34 45 | 21°49'41 | 1♏34 | 28°41 | 16°28 | 12°51 | 27°55 | 25°47 | 13°30 | 0°47 | 21°26 | 24°24 | 25°21 | 19°24 | 7°42 | M15 |
| T 16 | 1 38 42 | 22°49'24 | 16° 5 | 0♍18 | 17°42 | 13°14 | 28° 0 | 25°54 | 13°33 | 0°50 | 21°25 | 24°13 | 25°17 | 19°30 | 7°39 | T 16 |
| W17 | 1 42 38 | 23°49'10 | 0♍21 | 1°53 | 18°56 | 13°37 | 28° 4 | 26° 1 | 13°37 | 0°52 | 21°24 | 24° 4 | 25°14 | 19°37 | 7°37 | W17 |
| T 18 | 1 46 35 | 24°48'57 | 14°17 | 3°28 | 20°10 | 13°59 | 28° 9 | 26° 9 | 13°40 | 0°54 | 21°23 | 23°56 | 25°11 | 19°44 | 7°34 | T 18 |
| F 19 | 1 50 32 | 25°48'47 | 27°50 | 5° 3 | 21°24 | 14°21 | 28°14 | 26°16 | 13°43 | 0°56 | 21°22 | 23°51 | 25° 8 | 19°50 | 7°31 | F 19 |
| S 20 | 1 54 28 | 26°48'38 | 10♌58 | 6°37 | 22°38 | 14°43 | 28°19 | 26°23 | 13°46 | 0°59 | 21°21 | 23°48 | 25° 5 | 19°57 | 7°29 | S 20 |
| S 21 | 1 58 25 | 27°48'32 | 23°42 | 8°10 | 23°52 | 15° 4 | 28°24 | 26°30 | 13°49 | 1° 1 | 21°20 | 23°D47 | 25° 2 | 20° 4 | 7°26 | S 21 |
| M22 | 2 2 21 | 28°48'27 | 6♋3 | 9°43 | 25° 6 | 15°24 | 28°29 | 26°38 | 13°52 | 1° 3 | 21°19 | 23°47 | 24°58 | 20°10 | 7°23 | M22 |
| T 23 | 2 6 18 | 29°48'23 | 18°14 | 11°16 | 26°20 | 15°44 | 28°35 | 26°45 | 13°55 | 1° 5 | 21°18 | 23°48 | 24°55 | 20°17 | 7°21 | T 23 |
| W24 | 2 10 14 | 0♍48'22 | 0♋11 | 12°48 | 27°34 | 16° 4 | 28°41 | 26°52 | 13°57 | 1° 8 | 21°17 | 23°R49 | 24°52 | 20°24 | 7°18 | W24 |
| T 25 | 2 14 11 | 1°48'22 | 12° 3 | 14°19 | 28°48 | 16°23 | 28°47 | 26°59 | 14° 0 | 1°10 | 21°16 | 23°48 | 24°49 | 20°31 | 7°16 | T 25 |
| F 26 | 2 18 7 | 2°48'23 | 23°54 | 15°50 | 0♌3 | 16°41 | 28°53 | 27° 7 | 14° 3 | 1°12 | 21°15 | 23°46 | 24°46 | 20°37 | 7°13 | F 26 |
| S 27 | 2 22 4 | 3°48'26 | 5♋49 | 17°21 | 1°17 | 16°59 | 28°59 | 27°14 | 14° 6 | 1°14 | 21°14 | 23°41 | 24°42 | 20°44 | 7°11 | S 27 |
| S 28 | 2 26 1 | 4°48'31 | 17°52 | 18°51 | 2°31 | 17°17 | 29° 5 | 27°21 | 14° 9 | 1°17 | 21°13 | 23°34 | 24°39 | 20°51 | 7° 9 | S 28 |
| M29 | 2 29 57 | 5°48'37 | 0°Y 7 | 20°21 | 3°45 | 17°34 | 29°12 | 27°28 | 14°11 | 1°19 | 21°11 | 23°26 | 24°36 | 20°57 | 7° 6 | M29 |
| T 30 | 2 33 54 | 6°48'45 | 12°36 | 21°50 | 4°59 | 17°51 | 29°18 | 27°36 | 14°14 | 1°21 | 21°10 | 23°17 | 24°33 | 21° 4 | 7° 4 | T 30 |
| W31 | 2 37 50 | 7♍48'55 | 25°Y20 | 23♍18 | 6♌12 | 18♋7 | 29♋25 | 27♏43 | 14♍17 | 1♍23 | 21♋9 | 23♏9 | 24♏30 | 21♋11 | 7°Y 1 | W31 |

Delta T = 58.16 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1629

geocentric

NOVEMBER 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|--------|-------|--------|-------|-------|-------|------|--------|--------|-------|-------|-------|------|
| T 1 | 2 41 47 | 8♈49°07' | 8♈19 | 24♈46 | 7♈26 | 18♈22 | 29♈32 | 27♈50 | 14♈19 | 1♈26 | 21°R 8 | 23°R 1 | 24♈27 | 21♈17 | 6°R59 | T 1 |
| F 2 | 2 45 43 | 9°49'20 | 21°32 | 26°14 | 8°40 | 18°37 | 29°39 | 27°57 | 14°22 | 1°28 | 21♈7 | 22♈56 | 24°23 | 21°24 | 6°Y57 | F 2 |
| S 3 | 2 49 40 | 10°49'36 | 4♈57 | 27°41 | 9°54 | 18°51 | 29°47 | 28°4 | 14°24 | 1°30 | 21°6 | 22°52 | 24°20 | 21°31 | 6°55 | S 3 |
| S 4 | 2 53 36 | 11°49'53 | 18°34 | 29°7 | 11°8 | 19°5 | 29°54 | 28°11 | 14°27 | 1°32 | 21°5 | 22°D50 | 24°17 | 21°37 | 6°52 | S 4 |
| M 5 | 2 57 33 | 12°50'12 | 2♈20 | 0♈33 | 12°22 | 19°18 | 0♈2 | 28°18 | 14°29 | 1°34 | 21°4 | 22°51 | 24°14 | 21°44 | 6°50 | M 5 |
| T 6 | 3 1 30 | 13°50'33 | 16°14 | 1°58 | 13°36 | 19°30 | 0°10 | 28°26 | 14°31 | 1°37 | 21°3 | 22°52 | 24°11 | 21°51 | 6°48 | T 6 |
| W 7 | 3 5 26 | 14°50'56 | 0♈14 | 3°23 | 14°50 | 19°42 | 0°18 | 28°33 | 14°34 | 1°39 | 21°2 | 22°53 | 24°8 | 21°58 | 6°46 | W 7 |
| T 8 | 3 9 23 | 15°51'21 | 14°20 | 4°46 | 16°4 | 19°53 | 0°26 | 28°40 | 14°36 | 1°41 | 21°0 | 22°R54 | 24°4 | 22°4 | 6°44 | T 8 |
| F 9 | 3 13 19 | 16°51'48 | 28°31 | 6°9 | 17°18 | 20°4 | 0°34 | 28°47 | 14°38 | 1°43 | 20°59 | 22°54 | 24°1 | 22°11 | 6°42 | F 9 |
| S 10 | 3 17 16 | 17°52'17 | 12♈44 | 7°31 | 18°31 | 20°14 | 0°42 | 28°54 | 14°40 | 1°45 | 20°58 | 22°51 | 23°58 | 22°18 | 6°40 | S 10 |
| S 11 | 3 21 12 | 18°52'48 | 26°57 | 8°52 | 19°45 | 20°23 | 0°51 | 29°1 | 14°43 | 1°48 | 20°57 | 22°48 | 23°55 | 22°24 | 6°38 | S 11 |
| M12 | 3 25 9 | 19°53'20 | 11♈6 | 10°12 | 20°59 | 20°32 | 0°59 | 29°8 | 14°45 | 1°50 | 20°56 | 22°43 | 23°52 | 22°31 | 6°36 | M12 |
| T 13 | 3 29 5 | 20°53'55 | 25°8 | 11°30 | 22°13 | 20°39 | 1°8 | 29°15 | 14°47 | 1°52 | 20°55 | 22°38 | 23°48 | 22°38 | 6°34 | T 13 |
| W14 | 3 33 2 | 21°54'31 | 8♈58 | 12°47 | 23°27 | 20°46 | 1°17 | 29°22 | 14°49 | 1°54 | 20°54 | 22°33 | 23°45 | 22°45 | 6°33 | W14 |
| T 15 | 3 36 59 | 22°55'08 | 22°33 | 14°2 | 24°40 | 20°53 | 1°26 | 29°28 | 14°51 | 1°56 | 20°53 | 22°29 | 23°42 | 22°51 | 6°31 | T 15 |
| F 16 | 3 40 55 | 23°55'47 | 5♈51 | 15°15 | 25°54 | 20°58 | 1°35 | 29°35 | 14°53 | 1°58 | 20°51 | 22°26 | 23°39 | 22°58 | 6°29 | F 16 |
| S 17 | 3 44 52 | 24°56'28 | 18°49 | 16°26 | 27°8 | 21°3 | 1°45 | 29°42 | 14°54 | 2°0 | 20°50 | 22°D25 | 23°36 | 23°5 | 6°28 | S 17 |
| S 18 | 3 48 48 | 25°57'10 | 1♈29 | 17°34 | 28°22 | 21°7 | 1°54 | 29°49 | 14°56 | 2°3 | 20°49 | 22°25 | 23°33 | 23°11 | 6°26 | S 18 |
| M19 | 3 52 45 | 26°57'53 | 13°52 | 18°40 | 29°35 | 21°11 | 2°4 | 29°56 | 14°58 | 2°5 | 20°48 | 22°26 | 23°29 | 23°18 | 6°24 | M19 |
| T 20 | 3 56 41 | 27°58'37 | 26°0 | 19°42 | 0♈49 | 21°13 | 2°13 | 0♈2 | 15°0 | 2°7 | 20°47 | 22°28 | 23°26 | 23°25 | 6°23 | T 20 |
| W21 | 4 0 38 | 28°59'23 | 7♈59 | 20°41 | 2°3 | 21°15 | 2°23 | 0°9 | 15°1 | 2°9 | 20°46 | 22°30 | 23°23 | 23°31 | 6°21 | W21 |
| T 22 | 4 4 34 | 0♈0'09 | 19°51 | 21°35 | 3°16 | 21°16 | 2°33 | 0°16 | 15°3 | 2°11 | 20°45 | 22°31 | 23°20 | 23°38 | 6°20 | T 22 |
| F 23 | 4 8 31 | 1°0'57 | 1♈43 | 22°25 | 4°30 | 21°R16 | 2°43 | 0°22 | 15°5 | 2°13 | 20°44 | 22°R32 | 23°17 | 23°45 | 6°19 | F 23 |
| S 24 | 4 12 28 | 2°1'45 | 13°38 | 23°9 | 5°43 | 21°15 | 2°53 | 0°29 | 15°6 | 2°15 | 20°42 | 22°31 | 23°14 | 23°52 | 6°17 | S 24 |
| S 25 | 4 16 24 | 3°2'34 | 25°41 | 23°47 | 6°57 | 21°14 | 3°4 | 0°35 | 15°7 | 2°17 | 20°41 | 22°30 | 23°10 | 23°58 | 6°16 | S 25 |
| M26 | 4 20 21 | 4°3'24 | 7°Y58 | 24°18 | 8°10 | 21°11 | 3°14 | 0°42 | 15°9 | 2°19 | 20°40 | 22°27 | 23°7 | 24°5 | 6°15 | M26 |
| T 27 | 4 24 17 | 5°4'16 | 20°31 | 24°41 | 9°24 | 21°8 | 3°24 | 0°48 | 15°10 | 2°21 | 20°39 | 22°25 | 23°4 | 24°12 | 6°14 | T 27 |
| W28 | 4 28 14 | 6°5'08 | 3♈23 | 24°56 | 10°37 | 21°4 | 3°35 | 0°55 | 15°11 | 2°23 | 20°38 | 22°22 | 23°1 | 24°18 | 6°13 | W28 |
| T 29 | 4 32 10 | 7°6'01 | 16°35 | 25°R 1 | 11°51 | 20°59 | 3°46 | 1°1 | 15°13 | 2°25 | 20°37 | 22°20 | 22°58 | 24°25 | 6°12 | T 29 |
| F 30 | 4 36 7 | 8♈6'55 | 0♈7 | 24♈56 | 13♈4 | 20♈53 | 3♈57 | 1♈7 | 15♈14 | 2♈27 | 20♈36 | 22♈18 | 22♈54 | 24♈32 | 6°Y11 | F 30 |

Delta T = 58.09 sec

Greg. Calendar

DECEMBER 1629 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|--------|-------|--------|-------|------|--------|------|--------|--------|-------|-------|-------|------|
| S 1 | 4 40 3 | 9♈7°50 | 13♈56 | 24°R41 | 14♈17 | 20°R47 | 4♈8 | 1♈14 | 15♈15 | 2♈29 | 20°R35 | 22°R17 | 22♈51 | 24♈39 | 6°R10 | S 1 |
| S 2 | 4 44 0 | 10°8'46 | 28°0 | 24♈14 | 15°31 | 20♈40 | 4°19 | 1°20 | 15°16 | 2°30 | 20♈34 | 22°D17 | 22°48 | 24°45 | 6°Y9 | S 2 |
| M 3 | 4 47 57 | 11°9'43 | 12♈15 | 23°35 | 16°44 | 20°31 | 4°30 | 1°26 | 15°17 | 2°32 | 20°33 | 22♈18 | 22°45 | 24°52 | 6°8 | M 3 |
| T 4 | 4 51 53 | 12°10'42 | 26°36 | 22°46 | 17°57 | 20°22 | 4°41 | 1°32 | 15°18 | 2°34 | 20°32 | 22°19 | 22°42 | 24°59 | 6°7 | T 4 |
| W 5 | 4 55 50 | 13°11'41 | 10♈58 | 21°46 | 19°10 | 20°12 | 4°52 | 1°38 | 15°19 | 2°36 | 20°31 | 22°20 | 22°39 | 25°5 | 6°7 | W 5 |
| T 6 | 4 59 46 | 14°12'42 | 25°19 | 20°37 | 20°23 | 20°1 | 5°4 | 1°44 | 15°20 | 2°38 | 20°30 | 22°20 | 22°35 | 25°12 | 6°6 | T 6 |
| F 7 | 5 3 43 | 15°13'43 | 9♈33 | 19°22 | 21°36 | 19°50 | 5°15 | 1°50 | 15°21 | 2°39 | 20°29 | 22°R21 | 22°32 | 25°19 | 6°5 | F 7 |
| S 8 | 5 7 39 | 16°14'46 | 23°40 | 18°1 | 22°50 | 19°37 | 5°27 | 1°56 | 15°21 | 2°41 | 20°28 | 22°21 | 22°29 | 25°25 | 6°5 | S 8 |
| S 9 | 5 11 36 | 17°15'50 | 7♈37 | 16°38 | 24°3 | 19°24 | 5°39 | 2°2 | 15°22 | 2°43 | 20°27 | 22°20 | 22°26 | 25°32 | 6°4 | S 9 |
| M10 | 5 15 32 | 18°16'54 | 21°23 | 15°16 | 25°15 | 19°10 | 5°50 | 2°7 | 15°23 | 2°45 | 20°26 | 22°20 | 22°23 | 25°39 | 6°4 | M10 |
| T 11 | 5 19 29 | 19°18'00 | 4♈58 | 13°57 | 26°28 | 18°55 | 6°2 | 2°13 | 15°23 | 2°46 | 20°25 | 22°19 | 22°20 | 25°46 | 6°3 | T 11 |
| W12 | 5 23 26 | 20°19'07 | 18°20 | 12°44 | 27°41 | 18°40 | 6°14 | 2°19 | 15°24 | 2°48 | 20°24 | 22°19 | 22°16 | 25°52 | 6°3 | W12 |
| T 13 | 5 27 22 | 21°20'14 | 1♈28 | 11°39 | 28°54 | 18°23 | 6°26 | 2°24 | 15°24 | 2°50 | 20°23 | 22°19 | 22°13 | 25°59 | 6°3 | T 13 |
| F 14 | 5 31 19 | 22°21'22 | 14°24 | 10°43 | 0♈7 | 18°6 | 6°38 | 2°30 | 15°25 | 2°51 | 20°22 | 22°D19 | 22°10 | 26°6 | 6°3 | F 14 |
| S 15 | 5 35 15 | 23°22'31 | 27°5 | 9°58 | 1°20 | 17°48 | 6°51 | 2°35 | 15°25 | 2°53 | 20°21 | 22°R19 | 22°7 | 26°12 | 6°3 | S 15 |
| S 16 | 5 39 12 | 24°23'40 | 9♈34 | 9°23 | 2°32 | 17°30 | 7°3 | 2°41 | 15°25 | 2°55 | 20°20 | 22°19 | 22°4 | 26°19 | 6°2 | S 16 |
| M17 | 5 43 8 | 25°24'50 | 21°50 | 8°59 | 3°45 | 17°11 | 7°15 | 2°46 | 15°25 | 2°56 | 20°19 | 22°19 | 22°0 | 26°26 | 6°D 2 | M17 |
| T 18 | 5 47 5 | 26°26'00 | 3♈55 | 8°46 | 4°58 | 16°51 | 7°28 | 2°51 | 15°26 | 2°58 | 20°18 | 22°18 | 21°57 | 26°33 | 6°2 | T 18 |
| W19 | 5 51 2 | 27°27'10 | 15°53 | 8°D43 | 6°10 | 16°31 | 7°40 | 2°57 | 15°26 | 2°59 | 20°17 | 22°18 | 21°54 | 26°39 | 6°3 | W19 |
| T 20 | 5 54 58 | 28°28'20 | 27°45 | 8°50 | 7°23 | 16°10 | 7°53 | 3°2 | 15°26 | 3°1 | 20°16 | 22°17 | 21°51 | 26°46 | 6°3 | T 20 |
| F 21 | 5 58 55 | 29°29'30 | 9♈36 | 9°5 | 8°35 | 15°48 | 8°6 | 3°7 | 15°R26 | 3°2 | 20°16 | 22°16 | 21°48 | 26°53 | 6°3 | F 21 |
| S 22 | 6 2 51 | 0♈30'40 | 21°29 | 9°28 | 9°47 | 15°27 | 8°18 | 3°12 | 15°26 | 3°3 | 20°15 | 22°15 | 21°45 | 26°59 | 6°3 | S 22 |
| S 23 | 6 6 48 | 1°31'50 | 3°Y31 | 9°59 | 11°0 | 15°4 | 8°31 | 3°17 | 15°26 | 3°5 | 20°14 | 22°D15 | 21°41 | 27°6 | 6°4 | S 23 |
| M24 | 6 10 44 | 2°33'01 | 15°44 | 10°35 | 12°12 | 14°42 | 8°44 | 3°22 | 15°25 | 3°6 | 20°13 | 22°16 | 21°38 | 27°13 | 6°4 | M24 |
| T 25 | 6 14 41 | 3°34'11 | 28°14 | 11°18 | 13°24 | 14°19 | 8°57 | 3°26 | 15°25 | 3°7 | 20°12 | 22°16 | 21°35 | 27°20 | 6°4 | T 25 |
| W26 | 6 18 37 | 4°35'20 | 11♈5 | 12°5 | 14°36 | 13°56 | 9°10 | 3°31 | 15°25 | 3°9 | 20°12 | 22°18 | 21°32 | 27°26 | 6°5 | W26 |
| T 27 | 6 22 34 | 5°36'30 | 24°19 | 12°58 | 15°48 | 13°32 | 9°23 | 3°36 | 15°25 | 3°10 | 20°11 | 22°19 | 21°29 | 27°33 | 6°5 | T 27 |
| F 28 | 6 26 31 | 6°37'40 | 7♈58 | 13°54 | 17°0 | 13°9 | 9°36 | 3°40 | 15°24 | 3°11 | 20°10 | 22°20 | 21°26 | 27°40 | 6°6 | F 28 |
| S 29 | 6 30 27 | 7°38'49 | 22°2 | 14°54 | 18°11 | 12°45 | 9°50 | 3°45 | 15°24 | 3°13 | 20°9 | 22°R20 | 21°22 | 27°46 | 6°7 | S 29 |
| S 30 | 6 34 24 | 8°39'59 | 6♈27 | 15°57 | 19°23 | 12°21 | 10°3 | 3°49 | 15°23 | 3°14 | 20°9 | 22°20 | 21°19 | 27°53 | 6°7 | S 30 |
| M31 | 6 38 20 | 9♈41'08 | 21♈9 | 17♈3 | 20♈35 | 11♈57 | 10♈16 | 3♈53 | 15♈23 | 3♈15 | 20♈8 | 22♈18 | 21♈16 | 28♈0 | 6°Y8 | M31 |

Delta T = 58.03 sec

Greg. Calendar