



Astrodienst Ephemeris Tables for the year 1586

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 1586
geocentric

JANUARY 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|---------|--------|---------|---------|--------|--------|-------|--------|-------|-------|-------|--------|--------|------|
| W 1 | 6 40 57 | 10°23'39 | 12°8'25 | 7°34'0 | 6°57'53 | 25°35'0 | 2°R21 | 12°Y33 | 2°H19 | 26°R 3 | 7°Y 5 | 3°R21 | 2°M15 | 7°H54 | 21°R53 | W 1 |
| T 2 | 6 44 54 | 11°24'48 | 25°23 | 9°17 | 8° 7 | 26°37 | 2°H17 | 12°35 | 2°22 | 26°2 | 7° 5 | 3°M19 | 2°12 | 8° 1 | 21°D53 | T 2 |
| F 3 | 6 48 51 | 12°25'57 | 8°II47 | 10°54 | 9°21 | 27°24 | 2°12 | 12°37 | 2°24 | 26° 0 | 7° 6 | 3°14 | 2° 9 | 8° 8 | 21°Y53 | F 3 |
| S 4 | 6 52 47 | 13°27'06 | 22°38 | 12°32 | 10°35 | 28°11 | 2° 8 | 12°39 | 2°27 | 25°59 | 7° 6 | 3° 7 | 2° 5 | 8°15 | 21°53 | S 4 |
| S 5 | 6 56 44 | 14°28'14 | 6°54 | 14°10 | 11°49 | 28°58 | 2° 3 | 12°42 | 2°29 | 25°57 | 7° 6 | 2°57 | 2° 2 | 8°21 | 21°54 | S 5 |
| M 6 | 7 0 40 | 15°29'22 | 21°29 | 15°48 | 13° 3 | 29°45 | 1°59 | 12°44 | 2°32 | 25°55 | 7° 7 | 2°46 | 1°59 | 8°28 | 21°54 | M 6 |
| T 7 | 7 4 37 | 16°30'29 | 6°II17 | 17°27 | 14°17 | 0°33 | 1°55 | 12°46 | 2°34 | 25°54 | 7° 7 | 2°34 | 1°56 | 8°35 | 21°54 | T 7 |
| W 8 | 7 8 33 | 17°31'36 | 21° 8 | 19° 7 | 15°31 | 1°20 | 1°52 | 12°49 | 2°37 | 25°52 | 7° 7 | 2°24 | 1°53 | 8°41 | 21°55 | W 8 |
| T 9 | 7 12 30 | 18°32'43 | 5°II55 | 20°46 | 16°45 | 2° 7 | 1°48 | 12°52 | 2°40 | 25°50 | 7° 8 | 2°16 | 1°49 | 8°48 | 21°55 | T 9 |
| F 10 | 7 16 27 | 19°33'50 | 20°30 | 22°27 | 17°59 | 2°54 | 1°45 | 12°54 | 2°42 | 25°49 | 7° 8 | 2°10 | 1°46 | 8°55 | 21°55 | F 10 |
| S 11 | 7 20 23 | 20°34'56 | 4°II48 | 24° 8 | 19°13 | 3°42 | 1°42 | 12°57 | 2°45 | 25°47 | 7° 9 | 2° 8 | 1°43 | 9° 1 | 21°56 | S 11 |
| S 12 | 7 24 20 | 21°36'02 | 18°49 | 25°49 | 20°27 | 4°29 | 1°39 | 13° 0 | 2°48 | 25°45 | 7° 9 | 2°D 7 | 1°40 | 9° 8 | 21°57 | S 12 |
| M13 | 7 28 16 | 22°37'08 | 2°M31 | 27°31 | 21°41 | 5°16 | 1°36 | 13° 3 | 2°51 | 25°44 | 7°10 | 2°R 7 | 1°37 | 9°15 | 21°57 | M13 |
| T 14 | 7 32 13 | 23°38'13 | 15°57 | 29°13 | 22°56 | 6° 4 | 1°33 | 13° 6 | 2°54 | 25°42 | 7°10 | 2° 6 | 1°34 | 9°22 | 21°58 | T 14 |
| W15 | 7 36 9 | 24°39'18 | 29° 8 | 0°56 | 24°10 | 6°51 | 1°31 | 13° 9 | 2°56 | 25°40 | 7°11 | 2° 4 | 1°30 | 9°28 | 21°59 | W15 |
| T 16 | 7 40 6 | 25°40'23 | 12°II6 | 2°39 | 25°24 | 7°38 | 1°29 | 13°13 | 2°59 | 25°38 | 7°11 | 1°59 | 1°27 | 9°35 | 21°59 | T 16 |
| F 17 | 7 44 2 | 26°41'27 | 24°53 | 4°22 | 26°38 | 8°26 | 1°27 | 13°16 | 3° 2 | 25°37 | 7°12 | 1°51 | 1°24 | 9°42 | 22° 0 | F 17 |
| S 18 | 7 47 59 | 27°42'31 | 7°30 | 6° 6 | 27°53 | 9°13 | 1°25 | 13°20 | 3° 5 | 25°35 | 7°12 | 1°39 | 1°21 | 9°48 | 22° 1 | S 18 |
| S 19 | 7 51 56 | 28°43'34 | 19°57 | 7°50 | 29° 7 | 10° 1 | 1°24 | 13°23 | 3° 8 | 25°33 | 7°13 | 1°26 | 1°18 | 9°55 | 22° 2 | S 19 |
| M20 | 7 55 52 | 29°44'36 | 2°II4 | 9°34 | 0°31 | 10°48 | 1°22 | 13°27 | 3°11 | 25°32 | 7°14 | 1°11 | 1°15 | 10° 2 | 22° 3 | M20 |
| T 21 | 7 59 49 | 0°45'37 | 14°23 | 11°17 | 1°35 | 11°36 | 1°21 | 13°31 | 3°14 | 25°30 | 7°14 | 0°56 | 1°11 | 10° 8 | 22° 5 | T 21 |
| W22 | 8 3 45 | 1°46'37 | 26°23 | 13° 1 | 2°50 | 12°23 | 1°20 | 13°35 | 3°17 | 25°28 | 7°15 | 0°43 | 1° 8 | 10°15 | 22° 6 | W22 |
| T 23 | 8 7 42 | 2°47'36 | 8°H16 | 14°45 | 4° 4 | 13°10 | 1°20 | 13°39 | 3°20 | 25°27 | 7°16 | 0°31 | 1° 5 | 10°22 | 22° 7 | T 23 |
| F 24 | 8 11 38 | 3°48'33 | 20° 5 | 16°28 | 5°18 | 13°58 | 1°19 | 13°43 | 3°23 | 25°25 | 7°16 | 0°23 | 1° 2 | 10°28 | 22° 8 | F 24 |
| S 25 | 8 15 35 | 4°49'30 | 1°Y53 | 18°10 | 6°33 | 14°45 | 1°19 | 13°47 | 3°27 | 25°23 | 7°17 | 0°17 | 0°59 | 10°35 | 22°10 | S 25 |
| S 26 | 8 19 31 | 5°50'25 | 13°44 | 19°51 | 7°47 | 15°33 | 1°D19 | 13°51 | 3°30 | 25°22 | 7°18 | 0°15 | 0°55 | 10°42 | 22°11 | S 26 |
| M27 | 8 23 28 | 6°51'19 | 25°42 | 21°31 | 9° 1 | 16°20 | 1°19 | 13°56 | 3°33 | 25°20 | 7°19 | 0°14 | 0°52 | 10°49 | 22°12 | M27 |
| T 28 | 8 27 24 | 7°52'12 | 7°53 | 23° 9 | 10°16 | 17° 8 | 1°19 | 14° 0 | 3°36 | 25°18 | 7°20 | 0°14 | 0°49 | 10°55 | 22°14 | T 28 |
| W29 | 8 31 21 | 8°53'03 | 20°22 | 24°45 | 11°30 | 17°55 | 1°20 | 14° 5 | 3°39 | 25°17 | 7°20 | 0°13 | 0°46 | 11° 2 | 22°16 | W29 |
| T 30 | 8 35 18 | 9°53'53 | 3°II16 | 26°18 | 12°45 | 18°43 | 1°20 | 14° 9 | 3°42 | 25°15 | 7°21 | 0°11 | 0°43 | 11° 9 | 22°17 | T 30 |
| F 31 | 8 39 14 | 10°54'42 | 16°II36 | 27°48 | 13°59 | 19°30 | 1°II21 | 14°Y14 | 3°H46 | 25°13 | 7°Y22 | 0°M 7 | 0°M40 | 11°H15 | 22°Y19 | F 31 |

Delta T = 109.77 sec Greg. Calendar

FEBRUARY 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|---------|-------|--------|--------|--------|--------|-------|--------|-------|--------|-------|--------|--------|------|
| S 1 | 8 43 11 | 11°55'28 | 0°27 | 29°14 | 15°313 | 20°18 | 1°II22 | 14°Y19 | 3°H49 | 25°R12 | 7°Y23 | 0°R 0 | 0°M36 | 11°H22 | 22°Y21 | S 1 |
| S 2 | 8 47 7 | 12°56'14 | 14°48 | 0°H36 | 16°28 | 21° 5 | 1°24 | 14°24 | 3°52 | 25°10 | 7°24 | 29°51 | 0°33 | 11°29 | 22°22 | S 2 |
| M 3 | 8 51 4 | 13°56'58 | 29°34 | 1°53 | 17°42 | 21°52 | 1°25 | 14°28 | 3°55 | 25° 9 | 7°25 | 29°40 | 0°30 | 11°35 | 22°24 | M 3 |
| T 4 | 8 55 0 | 14°57'40 | 14°II38 | 3° 4 | 18°57 | 22°40 | 1°27 | 14°33 | 3°59 | 25° 7 | 7°26 | 29°29 | 0°27 | 11°42 | 22°26 | T 4 |
| W 5 | 8 58 57 | 15°58'22 | 29°50 | 4° 8 | 20°11 | 23°27 | 1°29 | 14°39 | 4° 2 | 25° 5 | 7°27 | 29°18 | 0°24 | 11°49 | 22°28 | W 5 |
| T 6 | 9 2 54 | 16°59'01 | 15°II0 | 5° 5 | 21°25 | 24°15 | 1°31 | 14°44 | 4° 5 | 25° 4 | 7°28 | 29°10 | 0°21 | 11°55 | 22°30 | T 6 |
| F 7 | 9 6 50 | 17°59'40 | 29°57 | 5°55 | 22°40 | 25° 2 | 1°33 | 14°49 | 4° 9 | 25° 2 | 7°29 | 29° 4 | 0°17 | 12° 2 | 22°32 | F 7 |
| S 8 | 9 10 47 | 19° 0'17 | 14°II35 | 6°35 | 23°54 | 25°50 | 1°36 | 14°54 | 4°12 | 25° 1 | 7°30 | 29° 1 | 0°14 | 12° 9 | 22°34 | S 8 |
| S 9 | 9 14 43 | 20° 0'53 | 28°49 | 7° 6 | 25° 9 | 26°37 | 1°39 | 15° 0 | 4°15 | 24°59 | 7°31 | 29°D 1 | 0°11 | 12°15 | 22°36 | S 9 |
| M10 | 9 18 40 | 21° 1'28 | 12°M39 | 7°27 | 26°23 | 27°24 | 1°41 | 15° 5 | 4°19 | 24°58 | 7°32 | 29° 1 | 0° 8 | 12°22 | 22°39 | M10 |
| T 11 | 9 22 36 | 22° 2'02 | 26° 5 | 7°39 | 27°37 | 28°12 | 1°45 | 15°11 | 4°22 | 24°56 | 7°33 | 29°R 1 | 0° 5 | 12°29 | 22°41 | T 11 |
| W12 | 9 26 33 | 23° 2'34 | 9°II11 | 7°R40 | 28°52 | 28°59 | 1°48 | 15°16 | 4°26 | 24°55 | 7°34 | 29° 0 | 0° 1 | 12°36 | 22°43 | W12 |
| T 13 | 9 30 29 | 24° 3'06 | 21°59 | 7°30 | 0°56 | 29°47 | 1°51 | 15°22 | 4°29 | 24°53 | 7°35 | 28°50 | 29°58 | 12°42 | 22°46 | T 13 |
| F 14 | 9 34 26 | 25° 3'36 | 4°332 | 7°11 | 1°21 | 0°H34 | 1°55 | 15°28 | 4°32 | 24°52 | 7°36 | 28°56 | 29°55 | 12°49 | 22°48 | F 14 |
| S 15 | 9 38 22 | 26° 4'04 | 16°54 | 6°41 | 2°35 | 1°21 | 1°59 | 15°33 | 4°36 | 24°51 | 7°37 | 28°41 | 29°52 | 12°56 | 22°50 | S 15 |
| S 16 | 9 42 19 | 27° 4'31 | 29° 7 | 6° 3 | 3°50 | 2° 9 | 2° 3 | 15°39 | 4°39 | 24°49 | 7°38 | 28°31 | 29°49 | 13° 2 | 22°53 | S 16 |
| M17 | 9 46 16 | 28° 4'57 | 11°M12 | 5°18 | 5° 4 | 2°56 | 2° 7 | 15°45 | 4°43 | 24°48 | 7°40 | 28°19 | 29°46 | 13° 9 | 22°55 | M17 |
| T 18 | 9 50 12 | 29° 5'20 | 23°11 | 4°25 | 6°19 | 3°43 | 2°11 | 15°51 | 4°46 | 24°46 | 7°41 | 28° 6 | 29°42 | 13°16 | 22°58 | T 18 |
| W19 | 9 54 9 | 0°H 5'43 | 5°H 4 | 3°27 | 7°33 | 4°31 | 2°16 | 15°57 | 4°50 | 24°45 | 7°42 | 27°55 | 29°39 | 13°22 | 23° 1 | W19 |
| T 20 | 9 58 5 | 1° 6'03 | 16°55 | 2°25 | 8°48 | 5°18 | 2°21 | 16° 3 | 4°53 | 24°44 | 7°43 | 27°46 | 29°36 | 13°29 | 23° 3 | T 20 |
| F 21 | 10 2 2 | 2° 6'21 | 28°43 | 1°22 | 10° 2 | 6° 5 | 2°26 | 16° 9 | 4°56 | 24°43 | 7°44 | 27°39 | 29°33 | 13°36 | 23° 6 | F 21 |
| S 22 | 10 5 58 | 3° 6'38 | 10°Y32 | 0°17 | 11°17 | 6°52 | 2°31 | 16°16 | 5° 0 | 24°41 | 7°46 | 27°35 | 29°30 | 13°42 | 23° 9 | S 22 |
| S 23 | 10 9 55 | 4° 6'53 | 22°25 | 29°14 | 12°31 | 7°40 | 2°36 | 16°22 | 5° 3 | 24°40 | 7°47 | 27°D34 | 29°26 | 13°49 | 23°11 | S 23 |
| M24 | 10 13 51 | 5° 7'05 | 4°B24 | 28°13 | 13°45 | 8°27 | 2°41 | 16°28 | 5° 7 | 24°39 | 7°48 | 27°34 | 29°23 | 13°56 | 23°14 | M24 |
| T 25 | 10 17 48 | 6° 7'16 | 16°35 | 27°16 | 15° 0 | 9°14 | 2°47 | 16°35 | 5°10 | 24°38 | 7°49 | 27°35 | 29°20 | 14° 2 | 23°17 | T 25 |
| W26 | 10 21 45 | 7° 7'25 | 29° 2 | 26°23 | 16°14 | 10° 1 | 2°53 | 16°41 | 5°14 | 24°36 | 7°51 | 27°36 | 29°17 | 14° 9 | 23°20 | W26 |
| T 27 | 10 25 41 | 8° 7'31 | 11°II51 | 25°35 | 17°29 | 10°48 | 2°59 | 16°48 | 5°17 | 24°35 | 7°52 | 27°R36 | 29°14 | 14°16 | 23°23 | T 27 |
| F 28 | 10 29 38 | 9°H 7'36 | 25°II 4 | 24°54 | 18°43 | 11°H36 | 3°II 5 | 16°Y54 | 5°H21 | 24°34 | 7°Y53 | 27°D35 | 29°11 | 14°H23 | 23°Y26 | F 28 |

Delta T = 109.63 sec Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1586

geocentric

MARCH 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|---------|---------|---------|---------|--------|---------|--------|---------|--------|---------|---------|---------|---------|------|
| S 1 | 10 33 34 | 10° 7'38 | 8° 46' | 24°R19 | 19° 58' | 12° 23' | 3° 11' | 17° 1' | 5° 24' | 24°R33 | 7° 54' | 27°R31 | 29° 7' | 14° 29' | 23° 29' | S 1 |
| S 2 | 10 37 31 | 11° 7'38 | 22° 58' | 23° 51' | 21° 12' | 13° 10' | 3° 18' | 17° 7' | 5° 27' | 24° 32' | 7° 56' | 27° 26' | 29° 4' | 14° 36' | 23° 32' | S 2 |
| M 3 | 10 41 27 | 12° 7'36 | 7° 37' | 23° 30' | 22° 26' | 13° 57' | 3° 24' | 17° 14' | 5° 31' | 24° 31' | 7° 57' | 27° 20' | 29° 1' | 14° 43' | 23° 35' | M 3 |
| T 4 | 10 45 24 | 13° 7'31 | 22° 38' | 23° 15' | 23° 41' | 14° 44' | 3° 31' | 17° 21' | 5° 34' | 24° 30' | 7° 58' | 27° 13' | 28° 58' | 14° 49' | 23° 38' | T 4 |
| W 5 | 10 49 20 | 14° 7'25 | 7° 54' | 23° 7' | 24° 55' | 15° 31' | 3° 38' | 17° 28' | 5° 38' | 24° 29' | 8° 0' | 27° 6' | 28° 55' | 14° 56' | 23° 41' | W 5 |
| T 6 | 10 53 17 | 15° 7'16 | 23° 12' | 23°D 5 | 26° 9' | 16° 18' | 3° 45' | 17° 35' | 5° 41' | 24° 28' | 8° 1' | 27° 1' | 28° 52' | 15° 3' | 23° 44' | T 6 |
| F 7 | 10 57 14 | 16° 7'06 | 8° 22' | 23° 9' | 27° 24' | 17° 5' | 3° 52' | 17° 41' | 5° 45' | 24° 27' | 8° 2' | 26° 58' | 28° 48' | 15° 9' | 23° 48' | F 7 |
| S 8 | 11 1 10 | 17° 6'54 | 23° 16' | 23° 20' | 28° 38' | 17° 52' | 3° 59' | 17° 48' | 5° 48' | 24° 26' | 8° 4' | 26°D56 | 28° 45' | 15° 16' | 23° 51' | S 8 |
| S 9 | 11 5 7 | 18° 6'40 | 7° 46' | 23° 36' | 29° 53' | 18° 38' | 4° 7' | 17° 55' | 5° 51' | 24° 25' | 8° 5' | 26° 57' | 28° 42' | 15° 23' | 23° 54' | S 9 |
| M10 | 11 9 3 | 19° 6'24 | 21° 49' | 23° 57' | 1° 17' | 19° 25' | 4° 14' | 18° 2' | 5° 55' | 24° 25' | 8° 6' | 26° 58' | 28° 39' | 15° 29' | 23° 57' | M10 |
| T 11 | 11 13 0 | 20° 6'07 | 5° 26' | 24° 23' | 2° 21' | 20° 12' | 4° 22' | 18° 9' | 5° 58' | 24° 24' | 8° 8' | 27° 0' | 28° 36' | 15° 36' | 24° 1' | T 11 |
| W12 | 11 16 56 | 21° 5'48 | 18° 37' | 24° 53' | 3° 36' | 20° 59' | 4° 30' | 18° 16' | 6° 1' | 24° 23' | 8° 9' | 27°R 0 | 28° 32' | 15° 43' | 24° 4' | W12 |
| T 13 | 11 20 53 | 22° 5'27 | 1° 26' | 25° 29' | 4° 50' | 21° 46' | 4° 38' | 18° 23' | 6° 5' | 24° 22' | 8° 11' | 27° 0' | 28° 29' | 15° 49' | 24° 8' | T 13 |
| F 14 | 11 24 49 | 23° 5'05 | 13° 56' | 26° 8' | 6° 4' | 22° 32' | 4° 46' | 18° 31' | 6° 8' | 24° 21' | 8° 12' | 26° 58' | 28° 26' | 15° 56' | 24° 11' | F 14 |
| S 15 | 11 28 46 | 24° 4'40 | 26° 12' | 26° 51' | 7° 19' | 23° 19' | 4° 55' | 18° 38' | 6° 11' | 24° 21' | 8° 13' | 26° 55' | 28° 23' | 16° 3' | 24° 14' | S 15 |
| S 16 | 11 32 43 | 25° 4'14 | 8° 16' | 27° 37' | 8° 33' | 24° 6' | 5° 3' | 18° 45' | 6° 15' | 24° 20' | 8° 15' | 26° 50' | 28° 20' | 16° 9' | 24° 18' | S 16 |
| M17 | 11 36 39 | 26° 3'46 | 20° 13' | 28° 28' | 9° 47' | 24° 53' | 5° 12' | 18° 52' | 6° 18' | 24° 19' | 8° 16' | 26° 44' | 28° 17' | 16° 16' | 24° 21' | M17 |
| T 18 | 11 40 36 | 27° 3'16 | 2° 5' | 29° 21' | 11° 2' | 25° 39' | 5° 20' | 18° 59' | 6° 21' | 24° 19' | 8° 18' | 26° 39' | 28° 13' | 16° 23' | 24° 25' | T 18 |
| W19 | 11 44 32 | 28° 2'44 | 13° 55' | 0° 17' | 12° 16' | 26° 26' | 5° 29' | 19° 7' | 6° 25' | 24° 18' | 8° 19' | 26° 34' | 28° 10' | 16° 29' | 24° 28' | W19 |
| T 20 | 11 48 29 | 29° 2'10 | 25° 44' | 1° 16' | 13° 30' | 27° 12' | 5° 38' | 19° 14' | 6° 28' | 24° 18' | 8° 21' | 26° 29' | 28° 7' | 16° 36' | 24° 32' | T 20 |
| F 21 | 11 52 25 | 0° 1'34 | 7° 35' | 2° 18' | 14° 45' | 27° 59' | 5° 47' | 19° 21' | 6° 31' | 24° 17' | 8° 22' | 26° 27' | 28° 4' | 16° 43' | 24° 36' | F 21 |
| S 22 | 11 56 22 | 1° 0'56 | 19° 29' | 3° 23' | 15° 59' | 28° 45' | 5° 56' | 19° 29' | 6° 34' | 24° 17' | 8° 23' | 26° 25' | 28° 1' | 16° 49' | 24° 39' | S 22 |
| S 23 | 12 0 18 | 2° 0'16 | 1° 28' | 4° 29' | 17° 13' | 29° 32' | 6° 6' | 19° 36' | 6° 38' | 24° 16' | 8° 25' | 26°D25 | 27° 57' | 16° 56' | 24° 43' | S 23 |
| M24 | 12 4 15 | 2° 59'33 | 13° 36' | 5° 38' | 18° 28' | 0° 1'18 | 6° 15' | 19° 44' | 6° 41' | 24° 16' | 8° 26' | 26° 26' | 27° 54' | 17° 3' | 24° 47' | M24 |
| T 25 | 12 8 11 | 3° 58'49 | 25° 54' | 6° 50' | 19° 42' | 1° 4' | 6° 25' | 19° 51' | 6° 44' | 24° 16' | 8° 28' | 26° 28' | 27° 51' | 17° 10' | 24° 50' | T 25 |
| W26 | 12 12 8 | 4° 58'02 | 8° 27' | 8° 3' | 20° 56' | 1° 51' | 6° 34' | 19° 58' | 6° 47' | 24° 15' | 8° 29' | 26° 29' | 27° 48' | 17° 16' | 24° 54' | W26 |
| T 27 | 12 16 5 | 5° 57'13 | 21° 17' | 9° 19' | 22° 10' | 2° 37' | 6° 44' | 20° 6' | 6° 50' | 24° 15' | 8° 31' | 26° 30' | 27° 45' | 17° 23' | 24° 58' | T 27 |
| F 28 | 12 20 1 | 6° 56'21 | 4° 28' | 10° 36' | 23° 25' | 3° 23' | 6° 54' | 20° 13' | 6° 53' | 24° 15' | 8° 32' | 26°R31 | 27° 42' | 17° 30' | 25° 1' | F 28 |
| S 29 | 12 23 58 | 7° 55'28 | 18° 3' | 11° 55' | 24° 39' | 4° 9' | 7° 4' | 20° 21' | 6° 56' | 24° 14' | 8° 33' | 26° 31' | 27° 38' | 17° 36' | 25° 5' | S 29 |
| S 30 | 12 27 54 | 8° 54'32 | 2° 2' | 13° 17' | 25° 53' | 4° 56' | 7° 14' | 20° 29' | 6° 59' | 24° 14' | 8° 35' | 26° 30' | 27° 35' | 17° 43' | 25° 9' | S 30 |
| M31 | 12 31 51 | 9° 53'33 | 16° 26' | 14° 40' | 27° 7' | 5° 42' | 7° 22' | 20° 36' | 7° 2' | 24° 14' | 8° 36' | 26° 28' | 27° 32' | 17° 50' | 25° 13' | M31 |

Delta T = 109.51 sec

Greg. Calendar

APRIL 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|---------|---------|---------|---------|---------|---------|--------|---------|--------|---------|---------|---------|---------|------|
| T 1 | 12 35 47 | 10° 52'32 | 1° 10' | 16° 4' | 28° 21' | 6° 28' | 7° 35' | 20° 44' | 7° 5' | 24°R14 | 8° 38' | 26°R26 | 27° 29' | 17° 56' | 25° 16' | T 1 |
| W 2 | 12 39 44 | 11° 51'29 | 16° 10' | 17° 31' | 29° 36' | 7° 14' | 7° 45' | 20° 51' | 7° 8' | 24° 14' | 8° 39' | 26° 24' | 27° 26' | 18° 3' | 25° 20' | W 2 |
| T 3 | 12 43 40 | 12° 50'23 | 1° 18' | 18° 59' | 0° 50' | 8° 0' | 7° 56' | 20° 59' | 7° 11' | 24° 14' | 8° 41' | 26° 23' | 27° 23' | 18° 10' | 25° 24' | T 3 |
| F 4 | 12 47 37 | 13° 49'16 | 16° 24' | 20° 28' | 2° 4' | 8° 46' | 8° 6' | 21° 6' | 7° 14' | 24° 14' | 8° 42' | 26° 22' | 27° 19' | 18° 16' | 25° 28' | F 4 |
| S 5 | 12 51 34 | 14° 48'06 | 1° 19' | 22° 0' | 3° 18' | 9° 32' | 8° 17' | 21° 14' | 7° 17' | 24°D14 | 8° 44' | 26°D22 | 27° 16' | 18° 23' | 25° 32' | S 5 |
| S 6 | 12 55 30 | 15° 46'55 | 15° 56' | 23° 33' | 4° 32' | 10° 18' | 8° 28' | 21° 22' | 7° 20' | 24° 14' | 8° 45' | 26° 22' | 27° 13' | 18° 30' | 25° 35' | S 6 |
| M 7 | 12 59 27 | 16° 45'42 | 0° 5' | 25° 7' | 5° 46' | 11° 3' | 8° 38' | 21° 29' | 7° 23' | 24° 14' | 8° 46' | 26° 23' | 27° 10' | 18° 36' | 25° 39' | M 7 |
| T 8 | 13 3 23 | 17° 44'27 | 13° 55' | 26° 44' | 7° 0' | 11° 49' | 8° 49' | 21° 37' | 7° 26' | 24° 14' | 8° 48' | 26° 24' | 27° 7' | 18° 43' | 25° 43' | T 8 |
| W 9 | 13 7 20 | 18° 43'10 | 27° 15' | 28° 22' | 8° 15' | 12° 35' | 9° 0' | 21° 44' | 7° 29' | 24° 14' | 8° 49' | 26° 25' | 27° 3' | 18° 50' | 25° 47' | W 9 |
| T 10 | 13 11 16 | 19° 41'52 | 10° 31' | 0° 1' | 9° 29' | 13° 21' | 9° 12' | 21° 52' | 7° 31' | 24° 14' | 8° 51' | 26° 25' | 27° 0' | 18° 56' | 25° 51' | T 10 |
| F 11 | 13 15 13 | 20° 40'32 | 22° 44' | 1° 42' | 10° 43' | 14° 6' | 9° 23' | 22° 0' | 7° 34' | 24° 14' | 8° 52' | 26°R25 | 26° 57' | 19° 3' | 25° 55' | F 11 |
| S 12 | 13 19 9 | 21° 39'10 | 5° 0' | 3° 25' | 11° 57' | 14° 52' | 9° 34' | 22° 7' | 7° 37' | 24° 14' | 8° 54' | 26° 25' | 26° 54' | 19° 10' | 25° 58' | S 12 |
| S 13 | 13 23 6 | 22° 37'47 | 17° 3' | 5° 9' | 13° 11' | 15° 37' | 9° 46' | 22° 15' | 7° 39' | 24° 15' | 8° 55' | 26° 25' | 26° 51' | 19° 16' | 26° 2' | S 13 |
| M14 | 13 27 3 | 23° 36'21 | 28° 58' | 6° 55' | 14° 25' | 16° 23' | 9° 57' | 22° 23' | 7° 42' | 24° 15' | 8° 56' | 26° 24' | 26° 48' | 19° 23' | 26° 6' | M14 |
| T 15 | 13 30 59 | 24° 34'54 | 10° 47' | 8° 42' | 15° 39' | 17° 8' | 10° 9' | 22° 30' | 7° 45' | 24° 15' | 8° 58' | 26° 24' | 26° 44' | 19° 30' | 26° 10' | T 15 |
| W16 | 13 34 56 | 25° 33'26 | 22° 36' | 10° 32' | 16° 53' | 17° 54' | 10° 20' | 22° 38' | 7° 47' | 24° 16' | 8° 59' | 26° 24' | 26° 41' | 19° 36' | 26° 14' | W16 |
| T 17 | 13 38 52 | 26° 31'55 | 4° 26' | 12° 22' | 18° 7' | 18° 39' | 10° 32' | 22° 46' | 7° 50' | 24° 16' | 9° 1' | 26°D24 | 26° 38' | 19° 43' | 26° 18' | T 17 |
| F 18 | 13 42 49 | 27° 30'23 | 16° 21' | 14° 15' | 19° 21' | 19° 24' | 10° 44' | 22° 53' | 7° 52' | 24° 16' | 9° 2' | 26° 24' | 26° 35' | 19° 50' | 26° 22' | F 18 |
| S 19 | 13 46 45 | 28° 28'49 | 28° 24' | 16° 9' | 20° 35' | 20° 10' | 10° 56' | 23° 1' | 7° 55' | 24° 17' | 9° 3' | 26°R24 | 26° 32' | 19° 56' | 26° 26' | S 19 |
| S 20 | 13 50 42 | 29° 27'13 | 10° 35' | 18° 5' | 21° 49' | 20° 55' | 11° 7' | 23° 8' | 7° 57' | 24° 17' | 9° 5' | 26° 24' | 26° 29' | 20° 3' | 26° 30' | S 20 |
| M21 | 13 54 38 | 0° 25'35 | 22° 57' | 20° 2' | 23° 3' | 21° 40' | 11° 19' | 23° 16' | 8° 0' | 24° 18' | 9° 6' | 26° 23' | 26° 25' | 20° 10' | 26° 33' | M21 |
| T 22 | 13 58 35 | 1° 23'55 | 5° 31' | 22° 1' | 24° 17' | 22° 25' | 11° 31' | 23° 24' | 8° 2' | 24° 18' | 9° 7' | 26° 23' | 26° 22' | 20° 16' | 26° 37' | T 22 |
| W23 | 14 2 31 | 2° 22'13 | 18° 18' | 24° 2' | 25° 31' | 23° 10' | 11° 44' | 23° 31' | 8° 4' | 24° 19' | 9° 9' | 26° 22' | 26° 19' | 20° 23' | 26° 41' | W23 |
| T 24 | 14 6 28 | 3° 20'30 | 1° 21' | 26° 4' | 26° 45' | 23° 55' | 11° 56' | 23° 39' | 8° 7' | 24° 20' | 9° 10' | 26° 21' | 26° 16' | 20° 30' | 26° 45' | T 24 |
| F 25 | 14 10 25 | 4° 18'44 | 14° 39' | 28° 7' | 27° 59' | 24° 40' | 12° 8' | 23° 46' | 8° 9' | 24° 20' | 9° 12' | 26° 21' | 26° 13' | 20° 36' | 26° 49' | F 25 |
| S 26 | 14 14 21 | 5° 16'56 | 28° 14' | 0° 12' | 29° 13' | 25° 25' | 12° 20' | 23° 54' | 8° 11' | 24° 21' | 9° 13' | 26° 20' | 26° 9' | 20° 43' | 26° 53' | S 26 |
| S 27 | 14 18 18 | 6° 15'07 | 12° 7' | 2° 18' | 0° 27' | 26° 10' | 12° 33' | 24° 1' | 8° 14' | 24° 22' | 9° 14' | 26°D20 | 26° 6' | 20° 50' | 26° 57' | S 27 |
| M28 | 14 22 14 | 7° 13'15 | 26° 17' | 4° 26' | 1° 41' | 26° 55' | 12° 45' | 24° 9' | 8° 16' | 24° 22' | 9° 15' | 26° 21' | 26° 3' | 20° 56' | 27° 0' | M28 |
| T 29 | 14 26 11 | 8° 11'21 | 10° 42' | 6° 34' | 2° 55' | 27° 40' | 12° 58' | 24° 17' | 8° 18' | 24° 23' | 9° 17' | 26° 22' | 26° 0' | 21° 3' | 27° 4' | T 29 |
| W30 | 14 30 7 | 9° 9'25 | 25° 20' | 8° 43' | 4° 8' | 28° 24' | 13° 10' | 24° 24' | 8° 20' | 24° 24' | 9° 18' | 26° 22' | 25° 57' | 21° 10' | 27° 8' | W30 |

Delta T = 109.37 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1586
geocentric

MAY 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|------|--------|-------|--------|--------|--------|--------|------|
| T 1 | 14 34 4 | 10♈ 7'27 | 10♈ 4 | 10♈53 | 5♈23 | 29♉ 9 | 13♊23 | 24♉31 | 8♈22 | 24♈25 | 9♉19 | 26♈23 | 25♈54 | 21♈16 | 27♉12 | T 1 |
| F 2 | 14 38 0 | 11° 5'27 | 24°50 | 13° 3 | 6°37 | 29°54 | 13°35 | 24°39 | 8°24 | 24°26 | 9°21 | 26°R24 | 25°50 | 21°23 | 27°16 | F 2 |
| S 3 | 14 41 57 | 12° 3'26 | 9♉31 | 15°14 | 7°51 | 0♈38 | 13°48 | 24°46 | 8°26 | 24°27 | 9°22 | 26°23 | 25°47 | 21°30 | 27°20 | S 3 |
| S 4 | 14 45 54 | 13° 1'23 | 23°59 | 17°24 | 9° 4 | 1°23 | 14° 1 | 24°54 | 8°28 | 24°28 | 9°23 | 26°22 | 25°44 | 21°36 | 27°23 | S 4 |
| M 5 | 14 49 50 | 13°59'19 | 8♈ 9 | 19°34 | 10°18 | 2° 7 | 14°14 | 25° 1 | 8°30 | 24°28 | 9°24 | 26°20 | 25°41 | 21°43 | 27°27 | M 5 |
| T 6 | 14 53 47 | 14°57'13 | 21°57 | 21°43 | 11°32 | 2°52 | 14°27 | 25° 8 | 8°31 | 24°29 | 9°26 | 26°18 | 25°38 | 21°50 | 27°31 | T 6 |
| W 7 | 14 57 43 | 15°55'06 | 5♈21 | 23°51 | 12°46 | 3°36 | 14°39 | 25°16 | 8°33 | 24°30 | 9°27 | 26°15 | 25°34 | 21°56 | 27°35 | W 7 |
| T 8 | 15 1 140 | 16°52'57 | 18°21 | 25°58 | 14° 0 | 4°20 | 14°52 | 25°23 | 8°35 | 24°32 | 9°28 | 26°13 | 25°31 | 22° 3 | 27°38 | T 8 |
| F 9 | 15 5 36 | 17°50'47 | 0♈58 | 28° 3 | 15°14 | 5° 5 | 15° 5 | 25°30 | 8°37 | 24°33 | 9°29 | 26°11 | 25°28 | 22°10 | 27°42 | F 9 |
| S 10 | 15 9 33 | 18°48'36 | 13°17 | 0♈ 7 | 16°28 | 5°49 | 15°18 | 25°38 | 8°38 | 24°34 | 9°30 | 26°10 | 25°25 | 22°16 | 27°46 | S 10 |
| S 11 | 15 13 29 | 19°46'24 | 25°22 | 2° 8 | 17°41 | 6°33 | 15°31 | 25°45 | 8°40 | 24°35 | 9°31 | 26°D10 | 25°22 | 22°23 | 27°49 | S 11 |
| M12 | 15 17 26 | 20°44'11 | 7♈16 | 4° 8 | 18°55 | 7°17 | 15°45 | 25°52 | 8°42 | 24°36 | 9°33 | 26°11 | 25°19 | 22°30 | 27°53 | M12 |
| T 13 | 15 21 23 | 21°41'56 | 19° 6 | 6° 4 | 20° 9 | 8° 1 | 15°58 | 25°59 | 8°43 | 24°37 | 9°34 | 26°12 | 25°15 | 22°36 | 27°57 | T 13 |
| W14 | 15 25 19 | 22°39'40 | 0♉55 | 7°59 | 21°23 | 8°45 | 16°11 | 26° 6 | 8°45 | 24°38 | 9°35 | 26°14 | 25°12 | 22°43 | 28° 0 | W14 |
| T 15 | 15 29 16 | 23°37'24 | 12°49 | 9°50 | 22°37 | 9°29 | 16°24 | 26°14 | 8°46 | 24°40 | 9°36 | 26°16 | 25° 9 | 22°50 | 28° 4 | T 15 |
| F 16 | 15 33 12 | 24°35'06 | 24°50 | 11°39 | 23°50 | 10°13 | 16°37 | 26°21 | 8°48 | 24°41 | 9°37 | 26°R16 | 25° 6 | 22°56 | 28° 7 | F 16 |
| S 17 | 15 37 9 | 25°32'46 | 7♈ 2 | 13°25 | 25° 4 | 10°57 | 16°51 | 26°28 | 8°49 | 24°42 | 9°38 | 26°16 | 25° 3 | 23° 3 | 28°11 | S 17 |
| S 18 | 15 41 5 | 26°30'26 | 19°27 | 15° 8 | 26°18 | 11°40 | 17° 4 | 26°35 | 8°50 | 24°44 | 9°39 | 26°14 | 25° 0 | 23°10 | 28°15 | S 18 |
| M19 | 15 45 2 | 27°28'04 | 2♈ 7 | 16°49 | 27°32 | 12°24 | 17°17 | 26°42 | 8°51 | 24°45 | 9°40 | 26°11 | 24°56 | 23°16 | 28°18 | M19 |
| T 20 | 15 48 58 | 28°25'42 | 15° 1 | 18°26 | 28°46 | 13° 8 | 17°31 | 26°48 | 8°53 | 24°46 | 9°41 | 26° 6 | 24°53 | 23°23 | 28°22 | T 20 |
| W21 | 15 52 55 | 29°23'18 | 28°10 | 20° 0 | 29°59 | 13°51 | 17°44 | 26°55 | 8°54 | 24°48 | 9°42 | 26° 1 | 24°50 | 23°30 | 28°25 | W21 |
| T 22 | 15 56 52 | 0♈20'52 | 11♈34 | 21°30 | 1♈13 | 14°35 | 17°58 | 27° 2 | 8°55 | 24°49 | 9°43 | 25°55 | 24°47 | 23°36 | 28°29 | T 22 |
| F 23 | 16 0 48 | 1°18'26 | 25° 9 | 22°58 | 2°27 | 15°18 | 18°11 | 27° 9 | 8°56 | 24°51 | 9°44 | 25°51 | 24°44 | 23°43 | 28°32 | F 23 |
| S 24 | 16 4 45 | 2°15'58 | 8♈56 | 24°22 | 3°41 | 16° 2 | 18°24 | 27°16 | 8°57 | 24°52 | 9°45 | 25°47 | 24°40 | 23°50 | 28°35 | S 24 |
| S 25 | 16 8 41 | 3°13'28 | 22°53 | 25°43 | 4°54 | 16°45 | 18°38 | 27°22 | 8°58 | 24°54 | 9°46 | 25°45 | 24°37 | 23°56 | 28°39 | S 25 |
| M26 | 16 12 38 | 4°10'57 | 6♈58 | 27° 1 | 6° 8 | 17°29 | 18°52 | 27°29 | 8°59 | 24°55 | 9°47 | 25°D45 | 24°34 | 24° 3 | 28°42 | M26 |
| T 27 | 16 16 34 | 5° 8'25 | 21°10 | 28°16 | 7°22 | 18°12 | 19° 5 | 27°36 | 9° 0 | 24°57 | 9°48 | 25°46 | 24°31 | 24°10 | 28°45 | T 27 |
| W28 | 16 20 31 | 6° 5'52 | 5♈28 | 29°27 | 8°36 | 18°55 | 19°19 | 27°42 | 9° 1 | 24°58 | 9°49 | 25°47 | 24°28 | 24°16 | 28°49 | W28 |
| T 29 | 16 24 27 | 7° 3'17 | 19°48 | 0♈35 | 9°49 | 19°38 | 19°32 | 27°49 | 9° 2 | 25° 0 | 9°50 | 25°R48 | 24°25 | 24°23 | 28°52 | T 29 |
| F 30 | 16 28 24 | 8° 0'41 | 4♈ 8 | 1°39 | 11° 3 | 20°21 | 19°46 | 27°55 | 9° 2 | 25° 1 | 9°51 | 25°48 | 24°21 | 24°30 | 28°55 | F 30 |
| S 31 | 16 32 21 | 8♈58'04 | 18♈24 | 2♈39 | 12♈17 | 21♈ 4 | 19♈59 | 28°Y 2 | 9♈ 3 | 25°D 3 | 9°Y52 | 25°D46 | 24°D18 | 24°Y36 | 28°Y58 | S 31 |

Delta T = 109.23 sec

Greg. Calendar

JUNE 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|--------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|------|
| S 1 | 16 36 17 | 9♈55'26 | 2♈31 | 3♈36 | 13♈31 | 21♈47 | 20♈13 | 28°Y 8 | 9♈ 4 | 25°D 5 | 9°Y52 | 25°R42 | 24°D15 | 24°Y43 | 29°Y 1 | S 1 |
| M 2 | 16 40 14 | 10°52'47 | 16°26 | 4°29 | 14°44 | 22°30 | 20°27 | 28°14 | 9° 4 | 25° 6 | 9°53 | 25°D36 | 24°12 | 24°50 | 29° 5 | M 2 |
| T 3 | 16 44 10 | 11°50'07 | 0♈ 3 | 5°19 | 15°58 | 23°13 | 20°40 | 28°21 | 9° 5 | 25° 8 | 9°54 | 25°29 | 24° 9 | 24°56 | 29° 8 | T 3 |
| W 4 | 16 48 7 | 12°47'27 | 13°21 | 6° 4 | 17°12 | 23°56 | 20°54 | 28°27 | 9° 5 | 25°10 | 9°55 | 25°21 | 24° 6 | 25° 3 | 29°11 | W 4 |
| T 5 | 16 52 3 | 13°44'46 | 26°19 | 6°46 | 18°25 | 24°39 | 21° 8 | 28°33 | 9° 6 | 25°12 | 9°55 | 25°14 | 24° 2 | 25°10 | 29°14 | T 5 |
| F 6 | 16 56 0 | 14°42'05 | 8♈56 | 7°23 | 19°39 | 25°22 | 21°21 | 28°39 | 9° 6 | 25°13 | 9°56 | 25° 7 | 23°59 | 25°16 | 29°17 | F 6 |
| S 7 | 16 59 56 | 15°39'23 | 21°16 | 7°57 | 20°53 | 26° 4 | 21°35 | 28°45 | 9° 7 | 25°15 | 9°57 | 25° 2 | 23°56 | 25°23 | 29°20 | S 7 |
| S 8 | 17 3 53 | 16°36'40 | 3♈21 | 8°25 | 22° 6 | 26°47 | 21°49 | 28°51 | 9° 7 | 25°17 | 9°58 | 24°59 | 23°53 | 25°30 | 29°23 | S 8 |
| M 9 | 17 7 50 | 17°33'57 | 15°16 | 8°50 | 23°20 | 27°29 | 22° 3 | 28°57 | 9° 7 | 25°19 | 9°58 | 24°D58 | 23°50 | 25°36 | 29°26 | M 9 |
| T 10 | 17 11 46 | 18°31'14 | 27° 6 | 9°10 | 24°34 | 28°12 | 22°16 | 29° 3 | 9° 7 | 25°21 | 9°59 | 24°58 | 23°46 | 25°43 | 29°28 | T 10 |
| W11 | 17 15 43 | 19°28'30 | 8°Y56 | 9°26 | 25°47 | 28°54 | 22°30 | 29° 9 | 9° 8 | 25°23 | 10° 0 | 24°59 | 23°43 | 25°50 | 29°31 | W11 |
| T 12 | 17 19 39 | 20°25'46 | 20°51 | 9°37 | 27° 1 | 29°37 | 22°44 | 29°15 | 9° 8 | 25°24 | 10° 0 | 25°R 0 | 23°40 | 25°56 | 29°34 | T 12 |
| F 13 | 17 23 36 | 21°23'02 | 2♈57 | 9°44 | 28°15 | 0♈19 | 22°58 | 29°20 | 9° 8 | 25°26 | 10° 1 | 25° 0 | 23°37 | 26° 3 | 29°37 | F 13 |
| S 14 | 17 27 32 | 22°20'18 | 15°17 | 9°R46 | 29°29 | 1° 1 | 23°11 | 29°26 | 9°R 8 | 25°28 | 10° 1 | 24°58 | 23°34 | 26°10 | 29°39 | S 14 |
| S 15 | 17 31 29 | 23°17'33 | 27°54 | 9°43 | 0♈42 | 1°44 | 23°25 | 29°32 | 9° 8 | 25°30 | 10° 2 | 24°54 | 23°31 | 26°16 | 29°42 | S 15 |
| M16 | 17 35 25 | 24°14'48 | 10♈50 | 9°37 | 1°56 | 2°26 | 23°39 | 29°37 | 9° 8 | 25°32 | 10° 2 | 24°47 | 23°27 | 26°23 | 29°45 | M16 |
| T 17 | 17 39 22 | 25°12'03 | 24° 6 | 9°25 | 3°10 | 3° 8 | 23°52 | 29°43 | 9° 8 | 25°34 | 10° 3 | 24°38 | 23°24 | 26°30 | 29°47 | T 17 |
| W18 | 17 43 19 | 26° 9'17 | 7♈40 | 9°10 | 4°23 | 3°50 | 24° 6 | 29°48 | 9° 7 | 25°36 | 10° 4 | 24°29 | 23°21 | 26°36 | 29°50 | W18 |
| T 19 | 17 47 15 | 27° 6'31 | 21°29 | 8°50 | 5°37 | 4°32 | 24°20 | 29°53 | 9° 7 | 25°38 | 10° 4 | 24°19 | 23°18 | 26°43 | 29°52 | T 19 |
| F 20 | 17 51 12 | 28° 3'45 | 5♈29 | 8°27 | 6°51 | 5°14 | 24°34 | 29°58 | 9° 7 | 25°40 | 10° 4 | 24°10 | 23°15 | 26°50 | 29°55 | F 20 |
| S 21 | 17 55 8 | 29° 0'58 | 19°36 | 8° 1 | 8° 4 | 5°56 | 24°47 | 0♈ 4 | 9° 7 | 25°42 | 10° 5 | 24° 2 | 23°12 | 26°56 | 29°57 | S 21 |
| S 22 | 17 59 5 | 29°58'10 | 3♈47 | 7°32 | 9°18 | 6°38 | 25° 1 | 0° 9 | 9° 6 | 25°44 | 10° 5 | 23°57 | 23° 8 | 27° 3 | 29°59 | S 22 |
| M23 | 18 3 1 | 0♈55'22 | 17°59 | 7° 0 | 10°32 | 7°19 | 25°15 | 0°14 | 9° 6 | 25°46 | 10° 6 | 23°55 | 23° 5 | 27°10 | 0♈ 2 | M23 |
| T 24 | 18 6 58 | 1°52'34 | 2♈ 8 | 6°26 | 11°45 | 8° 1 | 25°28 | 0°19 | 9° 5 | 25°48 | 10° 6 | 23°D54 | 23° 2 | 27°16 | 0° 4 | T 24 |
| W25 | 18 10 54 | 2°49'45 | 16°15 | 5°51 | 12°59 | 8°43 | 25°42 | 0°24 | 9° 5 | 25°50 | 10° 6 | 23°R55 | 22°59 | 27°23 | 0° 6 | W25 |
| T 26 | 18 14 51 | 3°46'56 | 0♈17 | 5°14 | 14°13 | 9°24 | 25°56 | 0°28 | 9° 4 | 25°52 | 10° 7 | 23°55 | 22°56 | 27°30 | 0° 8 | T 26 |
| F 27 | 18 18 48 | 4°44'06 | 14°15 | 4°38 | 15°26 | 10° 6 | 26° 9 | 0°33 | 9° 4 | 25°55 | 10° 7 | 23°53 | 22°52 | 27°36 | 0°11 | F 27 |
| S 28 | 18 22 44 | 5°41'16 | 28° 6 | 4° 2 | 16°40 | 10°47 | 26°23 | 0°38 | 9° 3 | 25°57 | 10° 7 | 23°49 | 22°49 | 27°43 | 0°13 | S 28 |
| S 29 | 18 26 41 | 6°38'26 | 11♈48 | 3°26 | 17°54 | 11°29 | 26°37 | 0°42 | 9° 2 | 25°59 | 10° 8 | 23°43 | 22°46 | 27°50 | 0°15 | S 29 |
| M30 | 18 30 37 | 7°35'36 | 25♈20 | 2♈53 | 19°D 7 | 12♈10 | 26♈50 | 0♈47 | 9♈ 2 | 26°D 1 | 10°Y 8 | 23°D34 | 22°D43 | 27°Y56 | 0♈17 | M30 |

Delta T = 109.09 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1586

geocentric

JULY 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|--------|-------|-------|---------|---------|-------|-------|-------|--------|--------|-------|--------|-------|------|
| T 1 | 18 34 34 | 8°32'46 | 8°38 | 2°R22 | 20°21 | 12°II52 | 27°II 4 | 0°851 | 9°R 1 | 26°3 | 10°Y 8 | 23°R23 | 22°40 | 28°X 3 | 0°819 | T 1 |
| W 2 | 18 38 30 | 9°29'56 | 21°42 | 1°53 | 21°34 | 13°33 | 27°17 | 0°55 | 9°X 0 | 26° 5 | 10° 8 | 23°11 | 22°37 | 28°10 | 0°21 | W 2 |
| T 3 | 18 42 27 | 10°27'06 | 4°29 | 1°28 | 22°48 | 14°14 | 27°31 | 1° 0 | 8°59 | 26° 7 | 10° 8 | 22°59 | 22°33 | 28°16 | 0°22 | T 3 |
| F 4 | 18 46 24 | 11°24'17 | 16°59 | 1° 6 | 24° 2 | 14°55 | 27°44 | 1° 4 | 8°58 | 26°10 | 10° 9 | 22°48 | 22°30 | 28°23 | 0°24 | F 4 |
| S 5 | 18 50 20 | 12°21'27 | 29°15 | 0°49 | 25°15 | 15°36 | 27°58 | 1° 8 | 8°57 | 26°12 | 10° 9 | 22°40 | 22°27 | 28°30 | 0°26 | S 5 |
| S 6 | 18 54 17 | 13°18'39 | 11°X17 | 0°36 | 26°29 | 16°17 | 28°11 | 1°12 | 8°56 | 26°14 | 10° 9 | 22°34 | 22°24 | 28°36 | 0°28 | S 6 |
| M 7 | 18 58 13 | 14°15'50 | 23°11 | 0°27 | 27°43 | 16°58 | 28°25 | 1°16 | 8°55 | 26°16 | 10° 9 | 22°30 | 22°21 | 28°43 | 0°29 | M 7 |
| T 8 | 19 2 10 | 15°13'02 | 5°Y 0 | 0°D24 | 28°56 | 17°39 | 28°38 | 1°20 | 8°54 | 26°18 | 10° 9 | 22°28 | 22°18 | 28°50 | 0°31 | T 8 |
| W 9 | 19 6 6 | 16°10'15 | 16°50 | 0°26 | 0°10 | 18°20 | 28°52 | 1°23 | 8°53 | 26°20 | 10° 9 | 22°28 | 22°14 | 28°56 | 0°32 | W 9 |
| T 10 | 19 10 3 | 17° 7'28 | 28°46 | 0°34 | 1°23 | 19° 1 | 29° 5 | 1°27 | 8°52 | 26°23 | 10° 9 | 22°28 | 22°11 | 29° 3 | 0°34 | T 10 |
| F 11 | 19 13 59 | 18° 4'42 | 10°853 | 0°47 | 2°37 | 19°42 | 29°18 | 1°31 | 8°51 | 26°25 | 10°R 9 | 22°27 | 22° 8 | 29°10 | 0°35 | F 11 |
| S 12 | 19 17 56 | 19° 1'57 | 23°16 | 1° 5 | 3°51 | 20°23 | 29°32 | 1°34 | 8°49 | 26°27 | 10° 9 | 22°25 | 22° 5 | 29°16 | 0°37 | S 12 |
| S 13 | 19 21 53 | 19°59'12 | 6°II 0 | 1°29 | 5° 4 | 21° 3 | 29°45 | 1°37 | 8°48 | 26°29 | 10° 9 | 22°19 | 22° 2 | 29°23 | 0°38 | S 13 |
| M14 | 19 25 49 | 20°56'28 | 19° 7 | 1°59 | 6°18 | 21°44 | 29°58 | 1°41 | 8°47 | 26°31 | 10° 9 | 22°12 | 21°58 | 29°30 | 0°39 | M14 |
| T 15 | 19 29 46 | 21°53'45 | 2°34 | 2°34 | 7°32 | 22°24 | 0°11 | 1°44 | 8°45 | 26°34 | 10° 9 | 22° 2 | 21°55 | 29°36 | 0°41 | T 15 |
| W16 | 19 33 42 | 22°51'03 | 16°33 | 3°14 | 8°45 | 23° 5 | 0°24 | 1°47 | 8°44 | 26°36 | 10° 9 | 21°50 | 21°52 | 29°43 | 0°42 | W16 |
| T 17 | 19 37 39 | 23°48'21 | 0°146 | 4° 1 | 9°59 | 23°45 | 0°38 | 1°50 | 8°43 | 26°38 | 10° 9 | 21°39 | 21°49 | 29°49 | 0°43 | T 17 |
| F 18 | 19 41 35 | 24°45'39 | 15°12 | 4°52 | 11°12 | 24°26 | 0°51 | 1°53 | 8°41 | 26°40 | 10° 9 | 21°28 | 21°46 | 29°56 | 0°44 | F 18 |
| S 19 | 19 45 32 | 25°42'58 | 29°44 | 5°49 | 12°26 | 25° 6 | 1° 4 | 1°56 | 8°39 | 26°43 | 10° 8 | 21°19 | 21°43 | 0°Y 3 | 0°45 | S 19 |
| S 20 | 19 49 28 | 26°40'18 | 14°17 | 6°52 | 13°40 | 25°46 | 1°17 | 1°58 | 8°38 | 26°45 | 10° 8 | 21°13 | 21°39 | 0° 9 | 0°46 | S 20 |
| M21 | 19 53 25 | 27°37'38 | 28°44 | 7°59 | 14°53 | 26°27 | 1°30 | 2° 1 | 8°36 | 26°47 | 10° 8 | 21°10 | 21°36 | 0°16 | 0°47 | M21 |
| T 22 | 19 57 22 | 28°34'58 | 13°3 | 9°12 | 16° 7 | 27° 7 | 1°43 | 2° 4 | 8°35 | 26°49 | 10° 8 | 21° 9 | 21°33 | 0°23 | 0°48 | T 22 |
| W23 | 20 1 18 | 29°32'19 | 27°10 | 10°30 | 17°20 | 27°47 | 1°56 | 2° 6 | 8°33 | 26°52 | 10° 7 | 21° 9 | 21°30 | 0°29 | 0°48 | W23 |
| T 24 | 20 5 15 | 0°12940 | 11°11 | 5°12 | 18°34 | 28°27 | 2° 8 | 2° 8 | 8°31 | 26°54 | 10° 7 | 21° 8 | 21°27 | 0°36 | 0°49 | T 24 |
| F 25 | 20 9 11 | 1°27'02 | 24° 8 | 13°19 | 19°47 | 29° 7 | 2°21 | 2°11 | 8°30 | 26°56 | 10° 7 | 21° 7 | 21°24 | 0°43 | 0°50 | F 25 |
| S 26 | 20 13 8 | 2°24'25 | 8°120 | 14°51 | 21° 1 | 29°47 | 2°34 | 2°13 | 8°28 | 26°58 | 10° 7 | 21° 3 | 21°20 | 0°49 | 0°50 | S 26 |
| S 27 | 20 17 4 | 3°21'48 | 21°40 | 16°27 | 22°15 | 0°27 | 2°47 | 2°15 | 8°26 | 27° 0 | 10° 6 | 20°56 | 21°17 | 0°56 | 0°51 | S 27 |
| M28 | 20 21 1 | 4°19'12 | 4°349 | 18° 7 | 23°28 | 1° 7 | 2°59 | 2°17 | 8°24 | 27° 3 | 10° 6 | 20°47 | 21°14 | 1° 3 | 0°51 | M28 |
| T 29 | 20 24 57 | 5°16'36 | 17°46 | 19°51 | 24°42 | 1°46 | 3°12 | 2°18 | 8°22 | 27° 5 | 10° 6 | 20°36 | 21°11 | 1° 9 | 0°52 | T 29 |
| W30 | 20 28 54 | 6°14'02 | 0°31 | 21°38 | 25°55 | 2°26 | 3°24 | 2°20 | 8°20 | 27° 7 | 10° 5 | 20°23 | 21° 8 | 1°16 | 0°52 | W30 |
| T 31 | 20 32 51 | 7°11'28 | 13°3 | 23°28 | 27°19 | 3°26 | 3°37 | 2°22 | 8°18 | 27°9 | 10°Y 5 | 20°11 | 21°4 | 1°Y23 | 0°53 | T 31 |

Delta T = 108.96 sec

Greg. Calendar

AUGUST 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|--------|---------|--------|-------|------|-------|-------|-------|--------|--------|-------|-------|-------|------|
| F 1 | 20 36 47 | 8°18'56 | 25°22 | 25°21 | 28°122 | 3°45 | 3°49 | 2°23 | 8°R17 | 27°11 | 10°R 4 | 20°R 0 | 21°1 | 1°Y29 | 0°853 | F 1 |
| S 2 | 20 40 44 | 9° 6'25 | 7°X30 | 27°17 | 29°36 | 4°25 | 4° 1 | 2°25 | 8°X15 | 27°14 | 10°Y 4 | 19°51 | 20°58 | 1°36 | 0°53 | S 2 |
| S 3 | 20 44 40 | 10° 3'54 | 19°27 | 29°15 | 0°149 | 5° 5 | 4°14 | 2°26 | 8°13 | 27°16 | 10° 3 | 19°45 | 20°55 | 1°43 | 0°53 | S 3 |
| M 4 | 20 48 37 | 11° 1'25 | 1°Y18 | 1°14 | 2° 2 | 5°44 | 4°26 | 2°27 | 8°11 | 27°18 | 10° 3 | 19°41 | 20°52 | 1°49 | 0°53 | M 4 |
| T 5 | 20 52 33 | 11°58'58 | 13° 6 | 3°15 | 3°16 | 6°23 | 4°38 | 2°28 | 8° 8 | 27°20 | 10° 2 | 19°39 | 20°49 | 1°56 | 0°R53 | T 5 |
| W 6 | 20 56 30 | 12°56'32 | 24°54 | 5°17 | 4°29 | 7° 3 | 4°50 | 2°29 | 8° 6 | 27°22 | 10° 2 | 19°D39 | 20°45 | 2° 3 | 0°53 | W 6 |
| T 7 | 21 0 26 | 13°54'07 | 6°849 | 7°19 | 5°43 | 7°42 | 5° 2 | 2°30 | 8° 4 | 27°24 | 10° 1 | 19°40 | 20°42 | 2° 9 | 0°53 | T 7 |
| F 8 | 21 4 23 | 14°51'44 | 18°55 | 9°22 | 6°56 | 8°21 | 5°14 | 2°31 | 8° 2 | 27°27 | 10° 1 | 19°R40 | 20°39 | 2°16 | 0°53 | F 8 |
| S 9 | 21 8 19 | 15°49'22 | 1°II18 | 11°25 | 8°10 | 9° 0 | 5°26 | 2°32 | 8° 0 | 27°29 | 10° 0 | 19°39 | 20°36 | 2°23 | 0°53 | S 9 |
| S 10 | 21 12 16 | 16°47'02 | 14° 2 | 13°27 | 9°23 | 9°40 | 5°38 | 2°32 | 7°58 | 27°31 | 9°59 | 19°35 | 20°33 | 2°29 | 0°53 | S 10 |
| M11 | 21 16 13 | 17°44'43 | 27°12 | 15°29 | 10°36 | 10°19 | 5°50 | 2°33 | 7°56 | 27°33 | 9°59 | 19°30 | 20°29 | 2°36 | 0°52 | M11 |
| T 12 | 21 20 9 | 18°42'26 | 10°349 | 17°31 | 11°50 | 10°58 | 6° 2 | 2°33 | 7°53 | 27°35 | 9°58 | 19°22 | 20°26 | 2°42 | 0°52 | T 12 |
| W13 | 21 24 6 | 19°40'11 | 24°53 | 19°32 | 13° 3 | 11°37 | 6°13 | 2°34 | 7°51 | 27°37 | 9°58 | 19°14 | 20°23 | 2°49 | 0°52 | W13 |
| T 14 | 21 28 2 | 20°37'57 | 9°121 | 21°31 | 14°17 | 12°15 | 6°25 | 2°34 | 7°49 | 27°39 | 9°57 | 19° 4 | 20°20 | 2°56 | 0°51 | T 14 |
| F 15 | 21 31 59 | 21°35'45 | 24° 6 | 23°30 | 15°30 | 12°54 | 6°36 | 2°R34 | 7°47 | 27°41 | 9°56 | 18°56 | 20°17 | 3° 2 | 0°51 | F 15 |
| S 16 | 21 35 55 | 22°33'33 | 9°17 | 25°28 | 16°43 | 13°33 | 6°48 | 2°34 | 7°44 | 27°43 | 9°55 | 18°49 | 20°14 | 3° 9 | 0°50 | S 16 |
| S 17 | 21 39 52 | 23°31'24 | 23°57 | 27°25 | 17°57 | 14°12 | 6°59 | 2°34 | 7°42 | 27°46 | 9°55 | 18°44 | 20°10 | 3°16 | 0°49 | S 17 |
| M18 | 21 43 48 | 24°29'15 | 8°45 | 29°20 | 19°10 | 14°50 | 7°10 | 2°33 | 7°40 | 27°48 | 9°54 | 18°42 | 20° 7 | 3°22 | 0°49 | M18 |
| T 19 | 21 47 45 | 25°27'08 | 23°20 | 1°17 | 20°23 | 15°29 | 7°21 | 2°33 | 7°37 | 27°50 | 9°53 | 18°D42 | 20° 4 | 3°29 | 0°48 | T 19 |
| W20 | 21 51 42 | 26°25'02 | 7°1138 | 3° 7 | 21°37 | 16° 8 | 7°32 | 2°33 | 7°35 | 27°52 | 9°52 | 18°43 | 20° 1 | 3°36 | 0°47 | W20 |
| T 21 | 21 55 38 | 27°22'57 | 21°37 | 4°58 | 22°50 | 16°46 | 7°43 | 2°32 | 7°33 | 27°54 | 9°52 | 18°R43 | 19°58 | 3°42 | 0°46 | T 21 |
| F 22 | 21 59 35 | 28°20'54 | 5°17 | 6°48 | 24° 3 | 17°25 | 7°54 | 2°31 | 7°30 | 27°56 | 9°51 | 18°43 | 19°55 | 3°49 | 0°45 | F 22 |
| S 23 | 22 3 31 | 29°18'52 | 18°40 | 8°37 | 25°16 | 18° 3 | 8° 5 | 2°31 | 7°28 | 27°58 | 9°50 | 18°42 | 19°51 | 3°56 | 0°44 | S 23 |
| S 24 | 22 7 28 | 0°16'51 | 1°346 | 10°25 | 26°30 | 18°41 | 8°16 | 2°30 | 7°26 | 28° 0 | 9°49 | 18°38 | 19°48 | 4° 2 | 0°43 | S 24 |
| M25 | 22 11 24 | 1°14'51 | 14°38 | 12°11 | 27°43 | 19°19 | 8°27 | 2°29 | 7°23 | 28° 1 | 9°48 | 18°32 | 19°45 | 4° 9 | 0°42 | M25 |
| T 26 | 22 15 21 | 2°12'54 | 27°16 | 13°56 | 28°56 | 19°58 | 8°37 | 2°28 | 7°21 | 28° 3 | 9°47 | 18°24 | 19°42 | 4°16 | 0°41 | T 26 |
| W27 | 22 19 17 | 3°10'57 | 9°343 | 15°40 | 0°19 | 20°36 | 8°48 | 2°26 | 7°19 | 28° 5 | 9°46 | 18°16 | 19°39 | 4°22 | 0°40 | W27 |
| T 28 | 22 23 14 | 4° 9'02 | 22° 0 | 17°23 | 1°22 | 21°14 | 8°58 | 2°25 | 7°16 | 28° 7 | 9°46 | 18° 8 | 19°35 | 4°29 | 0°38 | T 28 |
| F 29 | 22 27 11 | 5° 7'09 | 4°X 6 | 19° 4 | 2°35 | 21°52 | 9° 8 | 2°24 | 7°14 | 28° 9 | 9°45 | 18° 1 | 19°32 | 4°36 | 0°37 | F 29 |
| S 30 | 22 31 7 | 6° 5'17 | 16° 5 | 20°44 | 3°48 | 22°30 | 9°18 | 2°22 | 7°11 | 28°11 | 9°44 | 17°55 | 19°29 | 4°42 | 0°36 | S 30 |
| S 31 | 22 35 4 | 7°17'327 | 27°X57 | 22°1723 | 5°1 | 23°28 | 9°28 | 2°21 | 7°X 9 | 28°13 | 9°Y43 | 17°51 | 19°26 | 4°Y49 | 0°34 | S 31 |

Delta T = 108.82 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1586

geocentric

SEPTEMBER 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|------|
| M 1 | 22 39 0 | 8 ^h 1'39 | 9 ^h 45 | 24 ^h 1 | 6 ^h 15 | 23 ^h 46 | 9 ^h 38 | 2 ^h R19 | 7 ^h R 7 | 28 ^h 15 | 9 ^h R42 | 17 ^h R49 | 19 ^h 23 | 4 ^h Y55 | 0 ^h R33 | M 1 |
| T 2 | 22 42 57 | 8 ^h 59'53 | 21 ^h 32 | 25 ^h 37 | 7 ^h 28 | 24 ^h 23 | 9 ^h 48 | 2 ^h 17 | 7 ^h 4 | 28 ^h 16 | 9 ^h Y41 | 17 ^h D49 | 19 ^h 20 | 5 ^h 2 | 0 ^h 31 | T 2 |
| W 3 | 22 46 53 | 9 ^h 58'09 | 3 ^h 21 | 27 ^h 12 | 8 ^h 41 | 25 ^h 1 | 9 ^h 58 | 2 ^h 15 | 7 ^h 2 | 28 ^h 18 | 9 ^h 40 | 17 ^h 50 | 19 ^h 16 | 5 ^h 9 | 0 ^h 30 | W 3 |
| T 4 | 22 50 50 | 10 ^h 56'27 | 15 ^h 16 | 28 ^h 47 | 9 ^h 54 | 25 ^h 39 | 10 ^h 8 | 2 ^h 13 | 6 ^h 59 | 28 ^h 20 | 9 ^h 39 | 17 ^h 51 | 19 ^h 13 | 5 ^h 15 | 0 ^h 28 | T 4 |
| F 5 | 22 54 46 | 11 ^h 54'47 | 27 ^h 21 | 0 ^h 20 | 11 ^h 7 | 26 ^h 16 | 10 ^h 17 | 2 ^h 11 | 6 ^h 57 | 28 ^h 22 | 9 ^h 38 | 17 ^h 53 | 19 ^h 10 | 5 ^h 22 | 0 ^h 27 | F 5 |
| S 6 | 22 58 43 | 12 ^h 53'09 | 9 ^h 42 | 1 ^h 52 | 12 ^h 20 | 26 ^h 54 | 10 ^h 26 | 2 ^h 9 | 6 ^h 55 | 28 ^h 23 | 9 ^h 37 | 17 ^h R54 | 19 ^h 7 | 5 ^h 29 | 0 ^h 25 | S 6 |
| S 7 | 23 2 40 | 13 ^h 51'34 | 22 ^h 24 | 3 ^h 22 | 13 ^h 33 | 27 ^h 31 | 10 ^h 36 | 2 ^h 7 | 6 ^h 52 | 28 ^h 25 | 9 ^h 36 | 17 ^h 54 | 19 ^h 4 | 5 ^h 35 | 0 ^h 23 | S 7 |
| M 8 | 23 6 36 | 14 ^h 50'00 | 5 ^h 30 | 4 ^h 52 | 14 ^h 45 | 28 ^h 9 | 10 ^h 45 | 2 ^h 4 | 6 ^h 50 | 28 ^h 27 | 9 ^h 35 | 17 ^h 52 | 19 ^h 1 | 5 ^h 42 | 0 ^h 21 | M 8 |
| T 9 | 23 10 33 | 15 ^h 48'29 | 19 ^h 3 | 6 ^h 21 | 15 ^h 58 | 28 ^h 46 | 10 ^h 54 | 2 ^h 2 | 6 ^h 47 | 28 ^h 28 | 9 ^h 34 | 17 ^h 49 | 18 ^h 57 | 5 ^h 49 | 0 ^h 19 | T 9 |
| W10 | 23 14 29 | 16 ^h 47'00 | 3 ^h 2 | 7 ^h 48 | 17 ^h 11 | 29 ^h 23 | 11 ^h 3 | 1 ^h 59 | 6 ^h 45 | 28 ^h 30 | 9 ^h 33 | 17 ^h 45 | 18 ^h 54 | 5 ^h 55 | 0 ^h 17 | W10 |
| T 11 | 23 18 26 | 17 ^h 45'33 | 17 ^h 33 | 9 ^h 14 | 18 ^h 24 | 0 ^h 1 | 11 ^h 12 | 1 ^h 56 | 6 ^h 43 | 28 ^h 32 | 9 ^h 32 | 17 ^h 40 | 18 ^h 51 | 6 ^h 2 | 0 ^h 16 | T 11 |
| F 12 | 23 22 22 | 18 ^h 44'08 | 2 ^h 24 | 10 ^h 39 | 19 ^h 37 | 0 ^h 38 | 11 ^h 20 | 1 ^h 54 | 6 ^h 40 | 28 ^h 33 | 9 ^h 31 | 17 ^h 36 | 18 ^h 48 | 6 ^h 9 | 0 ^h 14 | F 12 |
| S 13 | 23 26 19 | 19 ^h 42'45 | 17 ^h 29 | 12 ^h 3 | 20 ^h 50 | 1 ^h 15 | 11 ^h 29 | 1 ^h 51 | 6 ^h 38 | 28 ^h 35 | 9 ^h 30 | 17 ^h 33 | 18 ^h 45 | 6 ^h 15 | 0 ^h 11 | S 13 |
| S 14 | 23 30 15 | 20 ^h 41'24 | 2 ^h 29 | 13 ^h 26 | 22 ^h 3 | 1 ^h 52 | 11 ^h 38 | 1 ^h 48 | 6 ^h 36 | 28 ^h 36 | 9 ^h 28 | 17 ^h 31 | 18 ^h 41 | 6 ^h 22 | 0 ^h 9 | S 14 |
| M15 | 23 34 12 | 21 ^h 40'05 | 17 ^h 46 | 14 ^h 47 | 23 ^h 16 | 2 ^h 29 | 11 ^h 46 | 1 ^h 45 | 6 ^h 34 | 28 ^h 38 | 9 ^h 27 | 17 ^h D30 | 18 ^h 38 | 6 ^h 29 | 0 ^h 7 | M15 |
| T 16 | 23 38 8 | 22 ^h 38'48 | 2 ^h 39 | 16 ^h 7 | 24 ^h 28 | 3 ^h 6 | 11 ^h 54 | 1 ^h 42 | 6 ^h 31 | 28 ^h 39 | 9 ^h 26 | 17 ^h 31 | 18 ^h 35 | 6 ^h 35 | 0 ^h 5 | T 16 |
| W17 | 23 42 5 | 23 ^h 37'32 | 17 ^h 26 | 17 ^h 26 | 25 ^h 41 | 3 ^h 43 | 12 ^h 2 | 1 ^h 39 | 6 ^h 29 | 28 ^h 41 | 9 ^h 25 | 17 ^h 32 | 18 ^h 32 | 6 ^h 42 | 0 ^h 3 | W17 |
| T 18 | 23 46 2 | 24 ^h 36'18 | 1 ^h 25 | 18 ^h 43 | 26 ^h 54 | 4 ^h 19 | 12 ^h 10 | 1 ^h 35 | 6 ^h 27 | 28 ^h 42 | 9 ^h 24 | 17 ^h 34 | 18 ^h 29 | 6 ^h 49 | 0 ^h 1 | T 18 |
| F 19 | 23 49 58 | 25 ^h 35'06 | 15 ^h 12 | 19 ^h 59 | 28 ^h 6 | 4 ^h 56 | 12 ^h 18 | 1 ^h 32 | 6 ^h 24 | 28 ^h 43 | 9 ^h 23 | 17 ^h 35 | 18 ^h 26 | 6 ^h 55 | 29 ^h Y58 | F 19 |
| S 20 | 23 53 55 | 26 ^h 33'56 | 28 ^h 35 | 21 ^h 13 | 29 ^h 19 | 5 ^h 33 | 12 ^h 25 | 1 ^h 28 | 6 ^h 22 | 28 ^h 45 | 9 ^h 22 | 17 ^h R35 | 18 ^h 22 | 7 ^h 2 | 29 ^h 56 | S 20 |
| S 21 | 23 57 51 | 27 ^h 32'48 | 11 ^h 37 | 22 ^h 26 | 0 ^h 32 | 6 ^h 9 | 12 ^h 33 | 1 ^h 25 | 6 ^h 20 | 28 ^h 46 | 9 ^h 21 | 17 ^h 34 | 18 ^h 19 | 7 ^h 8 | 29 ^h 54 | S 21 |
| M22 | 0 1 48 | 28 ^h 31'41 | 24 ^h 20 | 23 ^h 37 | 1 ^h 44 | 6 ^h 46 | 12 ^h 40 | 1 ^h 21 | 6 ^h 18 | 28 ^h 48 | 9 ^h 20 | 17 ^h 33 | 18 ^h 16 | 7 ^h 15 | 29 ^h 51 | M22 |
| T 23 | 0 5 44 | 29 ^h 30'36 | 6 ^h 27 | 24 ^h 46 | 2 ^h 57 | 7 ^h 22 | 12 ^h 48 | 1 ^h 18 | 6 ^h 16 | 28 ^h 49 | 9 ^h 18 | 17 ^h 30 | 18 ^h 13 | 7 ^h 22 | 29 ^h 49 | T 23 |
| W24 | 0 9 41 | 0 ^h 29'33 | 19 ^h 1 | 25 ^h 53 | 4 ^h 10 | 7 ^h 58 | 12 ^h 55 | 1 ^h 14 | 6 ^h 14 | 28 ^h 50 | 9 ^h 17 | 17 ^h 28 | 18 ^h 10 | 7 ^h 28 | 29 ^h 46 | W24 |
| T 25 | 0 13 37 | 1 ^h 28'31 | 1 ^h 5 | 26 ^h 58 | 5 ^h 22 | 8 ^h 35 | 13 ^h 2 | 1 ^h 10 | 6 ^h 12 | 28 ^h 51 | 9 ^h 16 | 17 ^h 25 | 18 ^h 6 | 7 ^h 35 | 29 ^h 44 | T 25 |
| F 26 | 0 17 34 | 2 ^h 27'32 | 13 ^h 2 | 28 ^h 1 | 6 ^h 35 | 9 ^h 11 | 13 ^h 8 | 1 ^h 6 | 6 ^h 9 | 28 ^h 53 | 9 ^h 15 | 17 ^h 23 | 18 ^h 3 | 7 ^h 42 | 29 ^h 41 | F 26 |
| S 27 | 0 21 31 | 3 ^h 26'34 | 24 ^h 54 | 29 ^h 2 | 7 ^h 47 | 9 ^h 47 | 13 ^h 15 | 1 ^h 2 | 6 ^h 7 | 28 ^h 54 | 9 ^h 14 | 17 ^h 21 | 18 ^h 0 | 7 ^h 48 | 29 ^h 39 | S 27 |
| S 28 | 0 25 27 | 4 ^h 25'39 | 6 ^h Y42 | 29 ^h 59 | 8 ^h 59 | 10 ^h 23 | 13 ^h 22 | 0 ^h 58 | 6 ^h 5 | 28 ^h 55 | 9 ^h 13 | 17 ^h 20 | 17 ^h 57 | 7 ^h 55 | 29 ^h 36 | S 28 |
| M29 | 0 29 24 | 5 ^h 24'45 | 18 ^h 30 | 0 ^h 55 | 10 ^h 12 | 10 ^h 59 | 13 ^h 28 | 0 ^h 54 | 6 ^h 3 | 28 ^h 56 | 9 ^h 11 | 17 ^h D20 | 17 ^h 54 | 8 ^h 2 | 29 ^h 33 | M29 |
| T 30 | 0 33 20 | 6 ^h 23'54 | 0 ^h 19 | 1 ^h 47 | 11 ^h 24 | 11 ^h 235 | 13 ^h 34 | 0 ^h 50 | 6 ^h 1 | 28 ^h 57 | 9 ^h Y10 | 17 ^h 20 | 17 ^h 51 | 8 ^h Y8 | 29 ^h Y31 | T 30 |

Delta T = 108.68 sec

Greg. Calendar

OCTOBER 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|--------|--------|------|
| W 1 | 0 37 17 | 7♂23'05 | 12♂12 | 2♂35 | 12♂37 | 12♂11 | 13♂40 | 0°R46 | 5°R59 | 28♂58 | 9°R 9 | 17♂21 | 17♂47 | 8°Y15 | 29°R28 | W 1 |
| T 2 | 0 41 13 | 8°22'18 | 24°11 | 3°20 | 13°49 | 12°46 | 13°46 | 0♂42 | 5♂58 | 28°59 | 9°Y 8 | 17°22 | 17°44 | 8°22 | 29°Y25 | T 2 |
| F 3 | 0 45 10 | 9°21'33 | 6♂12 | 4° 1 | 15° 1 | 13°22 | 13°52 | 0°38 | 5°56 | 29° 0 | 9° 7 | 17°23 | 17°41 | 8°28 | 29°23 | F 3 |
| S 4 | 0 49 6 | 10°20'51 | 18°44 | 4°38 | 16°13 | 13°58 | 13°57 | 0°33 | 5°54 | 29° 1 | 9° 6 | 17°24 | 17°38 | 8°35 | 29°20 | S 4 |
| S 5 | 0 53 3 | 11°20'11 | 1♂25 | 5°10 | 17°26 | 14°33 | 14° 3 | 0°29 | 5°52 | 29° 2 | 9° 4 | 17°24 | 17°35 | 8°41 | 29°17 | S 5 |
| M 6 | 0 57 0 | 12°19'33 | 14°26 | 5°36 | 18°38 | 15° 9 | 14° 8 | 0°24 | 5°50 | 29° 3 | 9° 3 | 17°R24 | 17°32 | 8°48 | 29°14 | M 6 |
| T 7 | 1 0 56 | 13°18'58 | 27°51 | 5°57 | 19°50 | 15°44 | 14°13 | 0°20 | 5°48 | 29° 4 | 9° 2 | 17°24 | 17°28 | 8°55 | 29°12 | T 7 |
| W 8 | 1 4 53 | 14°18'25 | 11♂42 | 6°12 | 21° 2 | 16°19 | 14°18 | 0°15 | 5°47 | 29° 5 | 9° 1 | 17°24 | 17°25 | 9° 1 | 29° 9 | W 8 |
| T 9 | 1 8 49 | 15°17'54 | 25°58 | 6°20 | 22°14 | 16°54 | 14°23 | 0°11 | 5°45 | 29° 6 | 9° 0 | 17°24 | 17°22 | 9° 8 | 29° 6 | T 9 |
| F 10 | 1 12 46 | 16°17'26 | 10♂38 | 6°R20 | 23°26 | 17°30 | 14°27 | 0° 6 | 5°43 | 29° 6 | 8°59 | 17°23 | 17°19 | 9°15 | 29° 3 | F 10 |
| S 11 | 1 16 42 | 17°17'00 | 25°37 | 6°13 | 24°38 | 18° 5 | 14°31 | 0° 2 | 5°42 | 29° 7 | 8°58 | 17°D23 | 17°16 | 9°21 | 29° 0 | S 11 |
| S 12 | 1 20 39 | 18°16'36 | 10♂47 | 5°58 | 25°50 | 18°39 | 14°36 | 29°Y57 | 5°40 | 29° 8 | 8°56 | 17°R23 | 17°12 | 9°28 | 28°57 | S 12 |
| M13 | 1 24 35 | 19°16'14 | 25°58 | 5°34 | 27° 2 | 19°14 | 14°40 | 29°52 | 5°39 | 29° 9 | 8°55 | 17°23 | 17° 9 | 9°35 | 28°54 | M13 |
| T 14 | 1 28 32 | 20°15'54 | 11♂2 | 5° 2 | 28°14 | 19°49 | 14°43 | 29°48 | 5°37 | 29° 9 | 8°54 | 17°23 | 17° 6 | 9°41 | 28°51 | T 14 |
| W15 | 1 32 28 | 21°15'36 | 25°50 | 4°21 | 29°26 | 20°24 | 14°47 | 29°43 | 5°36 | 29°10 | 8°53 | 17°23 | 17° 3 | 9°48 | 28°48 | W15 |
| T 16 | 1 36 25 | 22°15'20 | 10♂14 | 3°31 | 0♂38 | 20°58 | 14°51 | 29°38 | 5°34 | 29°10 | 8°52 | 17°22 | 17° 0 | 9°55 | 28°45 | T 16 |
| F 17 | 1 40 22 | 23°15'06 | 24°13 | 2°33 | 1°50 | 21°33 | 14°54 | 29°33 | 5°33 | 29°11 | 8°51 | 17°22 | 16°57 | 10° 1 | 28°42 | F 17 |
| S 18 | 1 44 18 | 24°14'53 | 7♂44 | 1°29 | 3° 1 | 22° 7 | 14°57 | 29°29 | 5°31 | 29°11 | 8°50 | 17°21 | 16°53 | 10° 8 | 28°39 | S 18 |
| S 19 | 1 48 15 | 25°14'42 | 20°50 | 0°19 | 4°13 | 22°42 | 15° 0 | 29°24 | 5°30 | 29°12 | 8°48 | 17°D21 | 16°50 | 10°15 | 28°36 | S 19 |
| M20 | 1 52 11 | 26°14'33 | 3♂32 | 29♂4 | 5°25 | 23°16 | 15° 3 | 29°19 | 5°29 | 29°12 | 8°47 | 17°21 | 16°47 | 10°21 | 28°33 | M20 |
| T 21 | 1 56 8 | 27°14'26 | 15°55 | 27°48 | 6°36 | 23°50 | 15° 5 | 29°14 | 5°28 | 29°13 | 8°46 | 17°22 | 16°44 | 10°28 | 28°30 | T 21 |
| W22 | 2 0 4 | 28°14'20 | 28° 3 | 26°32 | 7°48 | 24°24 | 15° 7 | 29° 9 | 5°26 | 29°13 | 8°45 | 17°22 | 16°41 | 10°34 | 28°27 | W22 |
| T 23 | 2 4 1 | 29°14'16 | 10♂1 | 25°18 | 8°59 | 24°58 | 15°10 | 29° 5 | 5°25 | 29°14 | 8°44 | 17°24 | 16°37 | 10°41 | 28°24 | T 23 |
| F 24 | 2 7 57 | 0♂14'13 | 21°51 | 24°10 | 10°11 | 25°32 | 15°12 | 29° 0 | 5°24 | 29°14 | 8°43 | 17°25 | 16°34 | 10°48 | 28°21 | F 24 |
| S 25 | 2 11 54 | 1°14'13 | 3°Y39 | 23° 8 | 11°22 | 26° 5 | 15°13 | 28°55 | 5°23 | 29°14 | 8°42 | 17°26 | 16°31 | 10°54 | 28°19 | S 25 |
| S 26 | 2 15 51 | 2°14'14 | 15°27 | 22°16 | 12°33 | 26°39 | 15°15 | 28°50 | 5°22 | 29°14 | 8°41 | 17°R26 | 16°28 | 11° 1 | 28°16 | S 26 |
| M27 | 2 19 47 | 3°14'17 | 27°17 | 21°33 | 13°45 | 27°12 | 15°16 | 28°45 | 5°21 | 29°15 | 8°40 | 17°26 | 16°25 | 11° 8 | 28°13 | M27 |
| T 28 | 2 23 44 | 4°14'21 | 9♂13 | 21° 1 | 14°56 | 27°46 | 15°17 | 28°40 | 5°20 | 29°15 | 8°39 | 17°25 | 16°22 | 11°14 | 28°10 | T 28 |
| W29 | 2 27 40 | 5°14'28 | 21°15 | 20°41 | 16° 7 | 28°19 | 15°18 | 28°36 | 5°20 | 29°15 | 8°38 | 17°23 | 16°18 | 11°21 | 28° 7 | W29 |
| T 30 | 2 31 37 | 6°14'37 | 3♂26 | 20°D33 | 17°18 | 28°52 | 15°19 | 28°31 | 5°19 | 29°15 | 8°37 | 17°20 | 16°15 | 11°28 | 28° 4 | T 30 |
| F 31 | 2 35 33 | 7♂14'47 | 15♂47 | 20♂36 | 18♂29 | 29♂25 | 15♂20 | 28°Y26 | 5♂18 | 29♂15 | 8°Y36 | 17♂17 | 16♂12 | 11°Y34 | 28°Y 1 | F 31 |

ASTRODIENST EPHEMERIS for the year 1586

geocentric

NOVEMBER 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|-------|--------|-------|--------|--------|--------|--------|------|
| S 1 | 2 39 30 | 8♈15°00 | 28♈20 | 20♈50 | 19♈40 | 29♈58 | 15♈20 | 28♈R21 | 5♈R17 | 29♈15 | 8♈R35 | 17♈R14 | 16♈9 | 11♈Y41 | 27♈R58 | S 1 |
| S 2 | 2 43 26 | 9°15'15 | 11♈7 | 21°14 | 20°51 | 0♈31 | 15°20 | 28♈Y17 | 5♈X17 | 29♈R15 | 8♈Y34 | 17♈Δ11 | 16°6 | 11°48 | 27♈Y55 | S 2 |
| M 3 | 2 47 23 | 10°15'31 | 24°10 | 21°47 | 22°2 | 1°4 | 15°R20 | 28°12 | 5°16 | 29°15 | 8°33 | 17°9 | 16°3 | 11°54 | 27°52 | M 3 |
| T 4 | 2 51 20 | 11°15'50 | 7♈231 | 22°29 | 23°12 | 1°36 | 15°20 | 28°7 | 5°15 | 29°15 | 8°32 | 17°D8 | 15°59 | 12°1 | 27°49 | T 4 |
| W 5 | 2 55 16 | 12°16'11 | 21°11 | 23°18 | 24°23 | 2°9 | 15°20 | 28°3 | 5°15 | 29°15 | 8°31 | 17°8 | 15°56 | 12°7 | 27°46 | W 5 |
| T 6 | 2 59 13 | 13°16'33 | 5♈12 | 24°14 | 25°34 | 2°41 | 15°19 | 27°58 | 5°14 | 29°15 | 8°30 | 17°9 | 15°53 | 12°14 | 27°43 | T 6 |
| F 7 | 3 3 9 | 14°16'58 | 19°33 | 25°16 | 26°44 | 3°14 | 15°18 | 27°54 | 5°14 | 29°15 | 8°29 | 17°11 | 15°50 | 12°21 | 27°40 | F 7 |
| S 8 | 3 7 6 | 15°17'24 | 4♈12 | 26°22 | 27°54 | 3°46 | 15°17 | 27°49 | 5°14 | 29°15 | 8°28 | 17°12 | 15°47 | 12°27 | 27°38 | S 8 |
| S 9 | 3 11 2 | 16°17'53 | 19°4 | 27°34 | 29°5 | 4°18 | 15°16 | 27°45 | 5°13 | 29°14 | 8°27 | 17°R12 | 15°43 | 12°34 | 27°35 | S 9 |
| M10 | 3 14 59 | 17°18'23 | 4♈3 | 28°49 | 0♈15 | 4°50 | 15°15 | 27°40 | 5°13 | 29°14 | 8°26 | 17°12 | 15°40 | 12°41 | 27°32 | M10 |
| T 11 | 3 18 55 | 18°18'55 | 19°1 | 0♈7 | 1°25 | 5°21 | 15°13 | 27°36 | 5°13 | 29°14 | 8°25 | 17°9 | 15°37 | 12°47 | 27°29 | T 11 |
| W12 | 3 22 52 | 19°19'28 | 3♈48 | 1°28 | 2°35 | 5°53 | 15°11 | 27°32 | 5°13 | 29°13 | 8°25 | 17°5 | 15°34 | 12°54 | 27°27 | W12 |
| T 13 | 3 26 49 | 20°20'03 | 18°18 | 2°51 | 3°45 | 6°24 | 15°9 | 27°27 | 5°12 | 29°13 | 8°24 | 17°0 | 15°31 | 13°1 | 27°24 | T 13 |
| F 14 | 3 30 45 | 21°20'40 | 2♈24 | 4°16 | 4°55 | 6°56 | 15°7 | 27°23 | 5°12 | 29°13 | 8°23 | 16°54 | 15°28 | 13°7 | 27°21 | F 14 |
| S 15 | 3 34 42 | 22°21'18 | 16°3 | 5°43 | 6°5 | 7°27 | 15°5 | 27°19 | 5°D12 | 29°12 | 8°22 | 16°49 | 15°24 | 13°14 | 27°19 | S 15 |
| S 16 | 3 38 38 | 23°21'57 | 29°15 | 7°11 | 7°15 | 7°58 | 15°2 | 27°15 | 5°12 | 29°12 | 8°21 | 16°45 | 15°21 | 13°21 | 27°16 | S 16 |
| M17 | 3 42 35 | 24°22'37 | 12♈2 | 8°40 | 8°24 | 8°29 | 14°59 | 27°11 | 5°13 | 29°11 | 8°21 | 16°43 | 15°18 | 13°27 | 27°13 | M17 |
| T 18 | 3 46 31 | 25°23'18 | 24°27 | 10°10 | 9°34 | 8°59 | 14°56 | 27°7 | 5°13 | 29°11 | 8°20 | 16°D42 | 15°15 | 13°34 | 27°11 | T 18 |
| W19 | 3 50 28 | 26°24'00 | 6♈35 | 11°41 | 10°43 | 9°30 | 14°53 | 27°3 | 5°13 | 29°10 | 8°19 | 16°42 | 15°12 | 13°41 | 27°8 | W19 |
| T 20 | 3 54 24 | 27°24'43 | 18°30 | 13°13 | 11°52 | 10°0 | 14°50 | 26°59 | 5°13 | 29°10 | 8°18 | 16°44 | 15°9 | 13°47 | 27°6 | T 20 |
| F 21 | 3 58 21 | 28°25'28 | 0♈Y19 | 14°44 | 13°2 | 10°31 | 14°46 | 26°55 | 5°13 | 29°9 | 8°18 | 16°46 | 15°5 | 13°54 | 27°3 | F 21 |
| S 22 | 4 2 18 | 29°26'13 | 12°6 | 16°17 | 14°11 | 11°1 | 14°43 | 26°52 | 5°14 | 29°8 | 8°17 | 16°R47 | 15°2 | 14°0 | 27°1 | S 22 |
| S 23 | 4 6 14 | 0♈27°00 | 23°55 | 17°49 | 15°19 | 11°31 | 14°39 | 26°48 | 5°14 | 29°8 | 8°16 | 16°47 | 14°59 | 14°7 | 26°59 | S 23 |
| M24 | 4 10 11 | 1°27'48 | 5♈50 | 19°22 | 16°28 | 12°0 | 14°35 | 26°45 | 5°15 | 29°7 | 8°16 | 16°44 | 14°56 | 14°14 | 26°56 | M24 |
| T 25 | 4 14 7 | 2°28'37 | 17°54 | 20°55 | 17°37 | 12°30 | 14°30 | 26°41 | 5°15 | 29°6 | 8°15 | 16°40 | 14°53 | 14°20 | 26°54 | T 25 |
| W26 | 4 18 4 | 3°29'27 | 0♈8 | 22°28 | 18°45 | 12°59 | 14°26 | 26°38 | 5°16 | 29°5 | 8°15 | 16°34 | 14°49 | 14°27 | 26°52 | W26 |
| T 27 | 4 22 0 | 4°30'18 | 12°35 | 24°2 | 19°53 | 13°29 | 14°21 | 26°35 | 5°16 | 29°5 | 8°14 | 16°26 | 14°46 | 14°34 | 26°49 | T 27 |
| F 28 | 4 25 57 | 5°31'10 | 25°14 | 25°35 | 21°1 | 13°58 | 14°16 | 26°31 | 5°17 | 29°4 | 8°13 | 16°16 | 14°43 | 14°40 | 26°47 | F 28 |
| S 29 | 4 29 53 | 6°32'04 | 8♈6 | 27°9 | 22°9 | 14°26 | 14°11 | 26°28 | 5°18 | 29°3 | 8°13 | 16°7 | 14°40 | 14°47 | 26°45 | S 29 |
| S 30 | 4 33 50 | 7♈32°58 | 21♈10 | 28♈42 | 23♈17 | 14♈55 | 14♈6 | 26♈Y25 | 5♈X18 | 29♈2 | 8♈Y12 | 15♈Δ58 | 14♈Δ37 | 14♈Y54 | 26♈Y43 | S 30 |

Delta T = 108.40 sec

Greg. Calendar

DECEMBER 1586 GC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|--------|--------|------|
| M 1 | 4 37 47 | 8♈33°54 | 4♈26 | 0♈16 | 24♈25 | 15♈24 | 14°R1 | 26°R22 | 5♈X19 | 29°R1 | 8°R12 | 15°R52 | 14♈Δ34 | 15°Y0 | 26°R41 | M 1 |
| T 2 | 4 41 43 | 9°34'51 | 17°54 | 1°49 | 25°32 | 15°52 | 13°56 | 26°Y19 | 5°20 | 29°0 | 8°Y11 | 15°Δ47 | 14°30 | 15°7 | 26°Y39 | T 2 |
| W 3 | 4 45 40 | 10°35'50 | 1♈34 | 3°23 | 26°39 | 16°20 | 13°50 | 26°17 | 5°21 | 28°59 | 8°11 | 15°45 | 14°27 | 15°14 | 26°37 | W 3 |
| T 4 | 4 49 36 | 11°36'49 | 15°27 | 4°57 | 27°46 | 16°48 | 13°44 | 26°14 | 5°22 | 28°58 | 8°11 | 15°D44 | 14°24 | 15°20 | 26°35 | T 4 |
| F 5 | 4 53 33 | 12°37'50 | 29°32 | 6°30 | 28°53 | 17°16 | 13°38 | 26°11 | 5°23 | 28°57 | 8°10 | 15°45 | 14°21 | 15°27 | 26°33 | F 5 |
| S 6 | 4 57 29 | 13°38'52 | 13♈49 | 8°4 | 29°59 | 17°43 | 13°32 | 26°9 | 5°24 | 28°56 | 8°10 | 15°R46 | 14°18 | 15°33 | 26°31 | S 6 |
| S 7 | 5 1 26 | 14°39'55 | 28°16 | 9°38 | 1♈6 | 18°10 | 13°26 | 26°7 | 5°25 | 28°55 | 8°9 | 15°45 | 14°15 | 15°40 | 26°30 | S 7 |
| M 8 | 5 5 22 | 15°40'59 | 12♈50 | 11°12 | 2°12 | 18°37 | 13°20 | 26°4 | 5°26 | 28°54 | 8°9 | 15°42 | 14°11 | 15°47 | 26°28 | M 8 |
| T 9 | 5 9 19 | 16°42'04 | 27°26 | 12°46 | 3°18 | 19°4 | 13°13 | 26°2 | 5°27 | 28°53 | 8°9 | 15°37 | 14°8 | 15°53 | 26°26 | T 9 |
| W10 | 5 13 16 | 17°43'10 | 11♈56 | 14°20 | 4°24 | 19°31 | 13°6 | 26°0 | 5°29 | 28°52 | 8°8 | 15°28 | 14°5 | 16°0 | 26°25 | W10 |
| T 11 | 5 17 12 | 18°44'16 | 26°15 | 15°54 | 5°29 | 19°57 | 13°0 | 25°58 | 5°30 | 28°50 | 8°8 | 15°18 | 14°2 | 16°7 | 26°23 | T 11 |
| F 12 | 5 21 9 | 19°45'23 | 10♈15 | 17°28 | 6°35 | 20°23 | 12°53 | 25°56 | 5°31 | 28°49 | 8°8 | 15°7 | 13°59 | 16°13 | 26°22 | F 12 |
| S 13 | 5 25 5 | 20°46'31 | 23°54 | 19°3 | 7°40 | 20°49 | 12°46 | 25°54 | 5°33 | 28°48 | 8°8 | 14°56 | 13°55 | 16°20 | 26°20 | S 13 |
| S 14 | 5 29 2 | 21°47'39 | 7♈8 | 20°38 | 8°44 | 21°15 | 12°39 | 25°53 | 5°34 | 28°47 | 8°7 | 14°47 | 13°52 | 16°27 | 26°19 | S 14 |
| M15 | 5 32 58 | 22°48'47 | 19°57 | 22°12 | 9°49 | 21°40 | 12°32 | 25°51 | 5°36 | 28°45 | 8°7 | 14°39 | 13°49 | 16°33 | 26°17 | M15 |
| T 16 | 5 36 55 | 23°49'56 | 2♈25 | 23°47 | 10°53 | 22°5 | 12°24 | 25°50 | 5°37 | 28°44 | 8°7 | 14°35 | 13°46 | 16°40 | 26°16 | T 16 |
| W17 | 5 40 51 | 24°51'05 | 14°34 | 25°23 | 11°57 | 22°30 | 12°17 | 25°48 | 5°39 | 28°43 | 8°7 | 14°32 | 13°43 | 16°47 | 26°15 | W17 |
| T 18 | 5 44 48 | 25°52'13 | 26°31 | 26°58 | 13°0 | 22°54 | 12°9 | 25°47 | 5°40 | 28°41 | 8°7 | 14°D32 | 13°40 | 16°53 | 26°14 | T 18 |
| F 19 | 5 48 45 | 26°53'22 | 8♈Y20 | 28°34 | 14°4 | 23°19 | 12°2 | 25°46 | 5°42 | 28°40 | 8°7 | 14°R32 | 13°36 | 17°0 | 26°13 | F 19 |
| S 20 | 5 52 41 | 27°54'31 | 20°7 | 0♈10 | 15°6 | 23°43 | 11°54 | 25°45 | 5°44 | 28°39 | 8°7 | 14°32 | 13°33 | 17°7 | 26°12 | S 20 |
| S 21 | 5 56 38 | 28°55'40 | 1♈58 | 1°46 | 16°9 | 24°6 | 11°47 | 25°44 | 5°46 | 28°37 | 8°7 | 14°31 | 13°30 | 17°13 | 26°11 | S 21 |
| M22 | 6 0 34 | 29°56'50 | 13°56 | 3°22 | 17°11 | 24°30 | 11°39 | 25°43 | 5°47 | 28°36 | 8°7 | 14°27 | 13°27 | 17°20 | 26°10 | M22 |
| T 23 | 6 4 31 | 0♈57°59 | 26°7 | 4°59 | 18°13 | 24°53 | 11°31 | 25°43 | 5°49 | 28°34 | 8°D7 | 14°21 | 13°24 | 17°26 | 26°9 | T 23 |
| W24 | 6 8 27 | 1°59'08 | 8♈33 | 6°36 | 19°14 | 25°16 | 11°23 | 25°42 | 5°51 | 28°33 | 8°7 | 14°11 | 13°21 | 17°33 | 26°8 | W24 |
| T 25 | 6 12 24 | 3°0'17 | 21°16 | 8°13 | 20°15 | 25°38 | 11°15 | 25°42 | 5°53 | 28°31 | 8°7 | 14°0 | 13°17 | 17°40 | 26°7 | T 25 |
| F 26 | 6 16 21 | 4°1'27 | 4♈16 | 9°50 | 21°16 | 26°0 | 11°7 | 25°41 | 5°55 | 28°30 | 8°7 | 13°46 | 13°14 | 17°46 | 26°7 | F 26 |
| S 27 | 6 20 17 | 5°2'36 | 17°31 | 11°28 | 22°16 | 26°22 | 10°59 | 25°41 | 5°57 | 28°28 | 8°7 | 13°33 | 13°11 | 17°53 | 26°6 | S 27 |
| S 28 | 6 24 14 | 6°3'46 | 1♈0 | 13°6 | 23°15 | 26°44 | 10°51 | 25°41 | 5°59 | 28°27 | 8°7 | 13°20 | 13°8 | 18°0 | 26°5 | S 28 |
| M29 | 6 28 10 | 7°4'55 | 14°39 | 14°44 | 24°15 | 27°5 | 10°43 | 25°D41 | 6°1 | 28°25 | 8°7 | 13°10 | 13°5 | 18°6 | 26°5 | M29 |
| T 30 | 6 32 7 | 8°6'05 | 28°27 | 16°23 | 25°13 | 27°25 | 10°35 | 25°41 | 6°3 | 28°24 | 8°7 | 13°3 | 13°1 | 18°13 | 26°4 | T 30 |
| W31 | 6 36 3 | 9♈7'15 | 12♈21 | 18♈1 | 26♈11 | 27♈46 | 10♈27 | 25♈Y41 | 6♈X6 | 28♈22 | 8♈Y7 | 12♈Δ58 | 12♈Δ58 | 18♈Y20 | 26♈Y4 | W31 |

Delta T = 108.27 sec

Greg. Calendar