



Astrodienst Ephemeris Tables for the year 2203

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 D5EPX

ASTRODIENST EPHEMERIS for the year 2203
geocentric

JANUARY 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|--------|---------|-------|---------|-------|--------|--------|--------|-------|-------|-------|--------|------|
| S 1 | 6 39 13 | 9°34'51 | 8°27 | 21°7 0 | 28°11 3 | 9°29 | 18°R36 | 2°V11 | 10°R54 | 29°R 5 | 0°R 4 | 7°R23 | 8°R52 | 3°R 8 | 16°R27 | S 1 |
| S 2 | 6 43 10 | 10°35'58 | 22°31 | 22°24 | 29°14 | 10°16 | 18°II29 | 2°14 | 10°S52 | 29°V 5 | 0°R 4 | 7°R20 | 8°49 | 3°15 | 16°33 | S 2 |
| M 3 | 6 47 7 | 11°37'05 | 6°R 5 | 23°49 | 0°X26 | 11° 3 | 18°22 | 2°17 | 10°49 | 29° 4 | 0° 3 | 7°D19 | 8°46 | 3°21 | 16°39 | M 3 |
| T 4 | 6 51 3 | 12°38'13 | 19°11 | 25°15 | 1°37 | 11°50 | 18°16 | 2°20 | 10°46 | 29° 4 | 0° 2 | 7°19 | 8°43 | 3°28 | 16°45 | T 4 |
| W 5 | 6 55 0 | 13°39'21 | 1°A54 | 26°42 | 2°49 | 12°38 | 18° 9 | 2°23 | 10°44 | 29° 4 | 0° 1 | 7°20 | 8°40 | 3°35 | 16°51 | W 5 |
| T 6 | 6 58 56 | 14°40'30 | 14°15 | 28° 9 | 4° 1 | 13°25 | 18° 2 | 2°27 | 10°41 | 29° 4 | 29°R59 | 7°R21 | 8°37 | 3°42 | 16°57 | T 6 |
| F 7 | 7 2 53 | 15°41'39 | 26°22 | 29°37 | 5°12 | 14°12 | 17°56 | 2°30 | 10°39 | 29° 4 | 29°59 | 7°20 | 8°33 | 3°48 | 17° 3 | F 7 |
| S 8 | 7 6 49 | 16°42'48 | 8°R19 | 1°R 5 | 6°24 | 14°59 | 17°50 | 2°33 | 10°36 | 29° 3 | 29°58 | 7°18 | 8°30 | 3°55 | 17° 9 | S 8 |
| S 9 | 7 10 46 | 17°43'57 | 20°11 | 2°34 | 7°36 | 15°46 | 17°43 | 2°37 | 10°34 | 29° 3 | 29°57 | 7°13 | 8°27 | 4° 2 | 17°15 | S 9 |
| M10 | 7 14 42 | 18°45'07 | 2°R 1 | 4° 4 | 8°48 | 16°34 | 17°37 | 2°41 | 10°31 | 29°D 3 | 29°56 | 7° 6 | 8°24 | 4° 9 | 17°21 | M10 |
| T 11 | 7 18 39 | 19°46'17 | 13°54 | 5°34 | 10° 1 | 17°21 | 17°32 | 2°44 | 10°28 | 29° 3 | 29°55 | 6°57 | 8°21 | 4°15 | 17°27 | T 11 |
| W12 | 7 22 36 | 20°47'26 | 25°53 | 7° 4 | 11°13 | 18° 8 | 17°26 | 2°48 | 10°26 | 29° 3 | 29°54 | 6°48 | 8°17 | 4°22 | 17°33 | W12 |
| T 13 | 7 26 32 | 21°48'36 | 7°R58 | 8°35 | 12°25 | 18°56 | 17°20 | 2°52 | 10°23 | 29° 4 | 29°53 | 6°38 | 8°14 | 4°29 | 17°39 | T 13 |
| F 14 | 7 30 29 | 22°49'46 | 20°13 | 10° 6 | 13°37 | 19°43 | 17°15 | 2°56 | 10°21 | 29° 4 | 29°52 | 6°30 | 8°11 | 4°35 | 17°45 | F 14 |
| S 15 | 7 34 25 | 23°50'55 | 2°R36 | 11°38 | 14°50 | 20°30 | 17°10 | 3° 0 | 10°18 | 29° 4 | 29°51 | 6°24 | 8° 8 | 4°42 | 17°51 | S 15 |
| S 16 | 7 38 22 | 24°52'04 | 15°10 | 13°11 | 16° 2 | 21°18 | 17° 5 | 3° 4 | 10°16 | 29° 4 | 29°49 | 6°19 | 8° 5 | 4°49 | 17°57 | S 16 |
| M17 | 7 42 18 | 25°53'13 | 27°55 | 14°43 | 17°15 | 22° 5 | 17° 0 | 3° 8 | 10°13 | 29° 4 | 29°48 | 6°17 | 8° 2 | 4°56 | 18° 3 | M17 |
| T 18 | 7 46 15 | 26°54'21 | 10°R51 | 16°17 | 18°27 | 22°52 | 16°55 | 3°13 | 10°11 | 29° 5 | 29°47 | 6°D17 | 7°58 | 5° 2 | 18° 9 | T 18 |
| W19 | 7 50 11 | 27°55'28 | 23°59 | 17°50 | 19°40 | 23°40 | 16°51 | 3°17 | 10° 8 | 29° 5 | 29°46 | 6°18 | 7°55 | 5° 9 | 18°15 | W19 |
| T 20 | 7 54 8 | 28°56'35 | 7°V22 | 19°24 | 20°53 | 24°27 | 16°46 | 3°22 | 10° 6 | 29° 5 | 29°45 | 6°19 | 7°52 | 5°16 | 18°21 | T 20 |
| F 21 | 7 58 5 | 29°57'41 | 21° 0 | 20°59 | 22° 5 | 25°14 | 16°42 | 3°26 | 10° 4 | 29° 6 | 29°43 | 6°21 | 7°49 | 5°22 | 18°26 | F 21 |
| S 22 | 8 2 1 | 0°58'46 | 4°R54 | 22°34 | 23°18 | 26° 2 | 16°38 | 3°31 | 10° 1 | 29° 6 | 29°42 | 6°R21 | 7°46 | 5°29 | 18°32 | S 22 |
| S 23 | 8 5 58 | 1°59'51 | 19° 4 | 24°10 | 24°31 | 26°49 | 16°34 | 3°36 | 9°59 | 29° 6 | 29°41 | 6°20 | 7°43 | 5°36 | 18°38 | S 23 |
| M24 | 8 9 54 | 3° 0'54 | 3°II29 | 25°46 | 25°44 | 27°37 | 16°31 | 3°41 | 9°57 | 29° 7 | 29°40 | 6°17 | 7°39 | 5°43 | 18°44 | M24 |
| T 25 | 8 13 51 | 4° 1'57 | 18° 5 | 27°23 | 26°57 | 28°24 | 16°28 | 3°45 | 9°54 | 29° 7 | 29°38 | 6°13 | 7°36 | 5°49 | 18°50 | T 25 |
| W26 | 8 17 47 | 5° 2'59 | 2°R47 | 29° 0 | 28°10 | 29°11 | 16°24 | 3°50 | 9°52 | 29° 8 | 29°37 | 6° 8 | 7°33 | 5°56 | 18°56 | W26 |
| T 27 | 8 21 44 | 6° 4'00 | 17°27 | 0°R38 | 29°23 | 29°59 | 16°21 | 3°55 | 9°50 | 29° 8 | 29°36 | 6° 3 | 7°30 | 6° 3 | 19° 1 | T 27 |
| F 28 | 8 25 40 | 7° 5'00 | 2°R 0 | 2°17 | 0°R36 | 0°R46 | 16°19 | 4° 1 | 9°48 | 29° 9 | 29°34 | 5°59 | 7°27 | 6°10 | 19° 7 | F 28 |
| S 29 | 8 29 37 | 8° 5'59 | 16°17 | 3°56 | 1°49 | 1°33 | 16°16 | 4° 6 | 9°45 | 29°10 | 29°33 | 5°57 | 7°23 | 6°16 | 19°13 | S 29 |
| S 30 | 8 33 34 | 9° 6'57 | 0°R13 | 5°36 | 3° 2 | 2°21 | 16°14 | 4°11 | 9°43 | 29°10 | 29°32 | 5°D55 | 7°20 | 6°23 | 19°19 | S 30 |
| M31 | 8 37 30 | 10°57'55 | 13°R47 | 7°R16 | 4°R15 | 3°R 8 | 16°II11 | 4°V16 | 9°S41 | 29°V11 | 29°R30 | 5°R56 | 7°R17 | 6°R30 | 19°R24 | M31 |

| Day | ☉ | ☾ | | ♀ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|-----|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| S 1 | 23s 4 | 15n45 | 2s28 | 22s25 | 0n42 | 17s25 | 2n21 | 18s59 | 1s11 | 22n23 | 0s32 | 1s17 | 2s21 | 23n19 | 0n21 | 9n31 | 1s44 | 21n 8 | 10n24 | 8n47 | 8n14 | 15s44 | 16s12 | 6n15 | | | |
| S 2 | 22 59 | 12 45 | 1 18 | 22 38 | 0 34 | 17 42 | 2 20 | 18 47 | 1 10 | 22 23 | 0 32 | 1 16 | 2 21 | 23 19 | 0 21 | 9 31 | 1 43 | 21 9 | 10 24 | 8 48 | 8 15 | 15 45 | 16 11 | 6 14 | | | |
| M 3 | 22 54 | 9 10 | 0 7 | 22 50 | 0 26 | 17 58 | 2 18 | 18 33 | 1 10 | 22 22 | 0 32 | 1 14 | 2 21 | 23 20 | 0 21 | 9 31 | 1 43 | 21 9 | 10 25 | 8 49 | 8 16 | 15 46 | 16 11 | 6 14 | | | |
| T 4 | 22 49 | 5 15 | 1n 3 | 23 2 | 0 18 | 18 14 | 2 17 | 18 20 | 1 10 | 22 22 | 0 32 | 1 13 | 2 20 | 23 20 | 0 21 | 9 31 | 1 43 | 21 10 | 10 25 | 8 49 | 8 18 | 15 47 | 16 10 | 6 14 | | | |
| W 5 | 22 43 | 1 12 | 2 8 | 23 12 | 0 10 | 18 29 | 2 15 | 18 7 | 1 10 | 22 21 | 0 32 | 1 12 | 2 20 | 23 20 | 0 21 | 9 31 | 1 43 | 21 11 | 10 25 | 8 48 | 8 19 | 15 48 | 16 9 | 6 15 | | | |
| T 6 | 22 36 | 2s46 | 3 5 | 23 21 | 0 3 | 18 44 | 2 14 | 17 53 | 1 9 | 22 21 | 0 32 | 1 10 | 2 20 | 23 20 | 0 21 | 9 31 | 1 43 | 21 11 | 10 25 | 8 48 | 8 20 | 15 50 | 16 9 | 6 15 | | | |
| F 7 | 22 29 | 6 33 | 3 52 | 23 30 | 0s 5 | 18 59 | 2 12 | 17 39 | 1 9 | 22 21 | 0 31 | 1 9 | 2 20 | 23 20 | 0 21 | 9 31 | 1 43 | 21 12 | 10 26 | 8 48 | 8 21 | 15 51 | 16 8 | 6 15 | | | |
| S 8 | 22 22 | 10 1 | 4 29 | 23 37 | 0 12 | 19 13 | 2 10 | 17 25 | 1 9 | 22 20 | 0 31 | 1 7 | 2 19 | 23 21 | 0 21 | 9 31 | 1 43 | 21 12 | 10 26 | 8 49 | 8 22 | 15 52 | 16 7 | 6 15 | | | |
| S 9 | 22 14 | 13 3 | 4 54 | 23 43 | 0 19 | 19 27 | 2 8 | 17 11 | 1 8 | 22 20 | 0 31 | 1 5 | 2 19 | 23 21 | 0 21 | 9 31 | 1 43 | 21 13 | 10 26 | 8 51 | 8 23 | 15 53 | 16 6 | 6 15 | | | |
| M10 | 22 6 | 15 33 | 5 6 | 23 47 | 0 26 | 19 40 | 2 6 | 16 56 | 1 8 | 22 19 | 0 31 | 1 4 | 2 19 | 23 21 | 0 21 | 9 31 | 1 43 | 21 14 | 10 27 | 8 54 | 8 25 | 15 54 | 16 5 | 6 15 | | | |
| T 11 | 21 57 | 17 24 | 5 5 | 23 51 | 0 33 | 19 52 | 2 4 | 16 42 | 1 8 | 22 19 | 0 31 | 1 2 | 2 19 | 23 21 | 0 21 | 9 31 | 1 43 | 21 14 | 10 27 | 8 57 | 8 26 | 15 55 | 16 5 | 6 15 | | | |
| W12 | 21 48 | 18 31 | 4 50 | 23 53 | 0 40 | 20 5 | 2 2 | 16 27 | 1 8 | 22 19 | 0 30 | 1 0 | 2 19 | 23 21 | 0 21 | 9 31 | 1 43 | 21 15 | 10 27 | 9 0 | 8 27 | 15 57 | 16 4 | 6 15 | | | |
| T 13 | 21 39 | 18 48 | 4 23 | 23 54 | 0 46 | 20 16 | 2 0 | 16 12 | 1 7 | 22 18 | 0 30 | 0 59 | 2 18 | 23 22 | 0 21 | 9 31 | 1 43 | 21 16 | 10 27 | 9 4 | 8 28 | 15 58 | 16 3 | 6 15 | | | |
| F 14 | 21 29 | 18 13 | 3 43 | 23 54 | 0 53 | 20 27 | 1 58 | 15 57 | 1 7 | 22 18 | 0 30 | 0 57 | 2 18 | 23 22 | 0 21 | 9 31 | 1 43 | 21 16 | 10 28 | 9 7 | 8 29 | 15 59 | 16 2 | 6 15 | | | |
| S 15 | 21 19 | 16 46 | 2 52 | 23 53 | 0 59 | 20 38 | 1 56 | 15 41 | 1 7 | 22 18 | 0 30 | 0 55 | 2 18 | 23 22 | 0 21 | 9 32 | 1 43 | 21 17 | 10 28 | 9 9 | 8 31 | 16 0 | 16 1 | 6 15 | | | |
| S 16 | 21 8 | 14 29 | 1 52 | 23 50 | 1 5 | 20 48 | 1 53 | 15 26 | 1 6 | 22 18 | 0 30 | 0 53 | 2 18 | 23 22 | 0 21 | 9 32 | 1 43 | 21 18 | 10 28 | 9 11 | 8 32 | 16 1 | 16 1 | 6 15 | | | |
| M17 | 20 57 | 11 29 | 0 45 | 23 46 | 1 10 | 20 58 | 1 51 | 15 10 | 1 6 | 22 17 | 0 29 | 0 51 | 2 18 | 23 22 | 0 21 | 9 32 | 1 43 | 21 18 | 10 28 | 9 12 | 8 33 | 16 2 | 16 0 | 6 15 | | | |
| T 18 | 20 45 | 7 52 | 0s25 | 23 41 | 1 16 | 21 6 | 1 48 | 14 55 | 1 6 | 22 17 | 0 29 | 0 50 | 2 17 | 23 23 | 0 22 | 9 32 | 1 43 | 21 19 | 10 29 | 9 12 | 8 34 | 16 3 | 15 59 | 6 15 | | | |
| W19 | 20 33 | 3 50 | 1 35 | 23 34 | 1 21 | 21 15 | 1 46 | 14 39 | 1 5 | 22 17 | 0 29 | 0 48 | 2 17 | 23 23 | 0 22 | 9 32 | 1 42 | 21 20 | 10 29 | 9 11 | 8 35 | 16 4 | 15 58 | 6 15 | | | |
| T 20 | 20 21 | 0n27 | 2 41 | 23 26 | 1 26 | 21 23 | 1 43 | 14 23 | 1 5 | 22 17 | 0 29 | 0 46 | 2 17 | 23 23 | 0 22 | 9 32 | 1 42 | 21 20 | 10 29 | 9 11 | 8 37 | 16 6 | 15 57 | 6 16 | | | |
| F 21 | 20 8 | 4 47 | 3 40 | 23 16 | 1 31 | 21 30 | 1 41 | 14 6 | 1 4 | 22 16 | 0 29 | 0 44 | 2 17 | 23 23 | 0 22 | 9 33 | 1 42 | 21 21 | 10 29 | 9 10 | 8 38 | 16 7 | 15 56 | 6 16 | | | |
| S 22 | 19 55 | 8 57 | 4 26 | 23 5 | 1 35 | 21 36 | 1 38 | 13 50 | 1 4 | 22 16 | 0 28 | 0 42 | 2 17 | 23 23 | 0 22 | 9 33 | 1 42 | 21 22 | 10 30 | 9 10 | 8 39 | 16 8 | 15 55 | 6 16 | | | |
| S 23 | 19 41 | 12 41 | 4 58 | 22 53 | 1 40 | 21 42 | 1 35 | 13 33 | 1 4 | 22 16 | 0 28 | 0 40 | 2 17 | 23 24 | 0 22 | 9 33 | 1 42 | 21 22 | 10 30 | 9 11 | 8 40 | 16 9 | 15 54 | 6 16 | | | |
| M24 | 19 28 | 15 44 | 5 11 | 22 40 | 1 44 | 21 48 | 1 33 | 13 17 | 1 3 | 22 16 | 0 28 | 0 38 | 2 16 | 23 24 | 0 22 | 9 33 | 1 42 | 21 23 | 10 30 | 9 12 | 8 41 | 16 10 | 15 53 | 6 16 | | | |
| T 25 | 19 13 | 17 49 | 5 5 | 22 25 | 1 47 | 21 53 | 1 30 | 13 0 | 1 3 | 22 16 | 0 28 | 0 35 | 2 16 | 23 24 | 0 22 | 9 33 | 1 42 | 21 24 | 10 30 | 9 13 | 8 42 | 16 11 | 15 52 | 6 16 | | | |
| W26 | 18 59 | 18 44 | 4 39 | 22 8 | 1 51 | 21 57 | 1 27 | 12 43 | 1 3 | 22 16 | 0 28 | 0 33 | 2 16 | 23 24 | 0 22 | 9 34 | 1 42 | 21 24 | 10 31 | 9 15 | 8 44 | 16 12 | 15 52 | 6 17 | | | |
| T 27 | 18 44 | 18 24 | 3 55 | 21 50 | 1 54 | 22 0 | 1 24 | 12 26 | 1 2 | 22 16 | 0 27 | 0 31 | 2 16 | 23 24 | 0 22 | 9 34 | 1 42 | 21 25 | 10 31 | 9 17 | 8 45 | 16 13 | 15 51 | 6 17 | | | |
| F 28 | 18 29 | 16 51 | 2 55 | 21 31 | 1 56 | 22 3 | 1 21 | 12 9 | 1 2 | 22 15 | 0 27 | 0 29 | 2 16 | 23 24 | 0 22 | 9 34 | 1 42 | 21 26 | 10 31 | 9 18 | 8 46 | 16 14 | 15 50 | 6 17 | | | |
| S 29 | 18 13 | 14 15 | 1 46 | 21 10 | 1 59 | 22 6 | 1 18 | 11 52 | 1 1 | 22 15 | 0 27 | 0 27 | 2 15 | 23 25 | 0 22 | 9 34 | 1 42 | 21 26 | 10 31 | 9 19 | 8 47 | 16 16 | 15 49 | 6 17 | | | |
| S 30 | 17 57 | 10 54 | 0 31 | 20 48 | 2 1 | 22 7 | 1 15 | 11 34 | 1 1 | 22 15 | 0 27 | 0 25 | 2 15 | 23 25 | 0 22 | 9 35 | 1 42 | 21 27 | 10 31 | 9 20 | 8 48 | 16 17 | 15 48 | 6 17 | | | |
| M31 | 17s41 | 7n 2 | 0n43 | 20s24 | 2s 2 | 22s 8 | 1n12 | 11s17 | 1s 1 | 22n15 | 0s27 | 0s22 | 2s15 | 23n25 | 0n22 | 9n35 | 1s42 | 21n28 | 10n31 | 9n20 | 8n50 | 16s18 | 15s47 | 6n18 | | | |

ASTRODIENST EPHEMERIS for the year 2203

geocentric

FEBRUARY 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------------------|---------------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---------------------|------|
| T 1 | 8 41 27 | 11 ⁰⁰ 8'52 | 26 ⁰⁰ 57 | 8 ⁰⁰ 57 | 5 ⁰⁰ 28 | 3 ⁰⁰ 55 | 16°R 9 | 4 ⁰⁰ 22 | 9°R39 | 29 ⁰⁰ 12 | 29°R29 | 5 ⁰⁰ 57 | 7 ⁰⁰ 14 | 6 ⁰⁰ 36 | 19 ⁰⁰ 30 | T 1 |
| W 2 | 8 45 23 | 12° 9'49 | 9 ⁰⁰ 44 | 10°39 | 6°42 | 4°43 | 16 ⁰⁰ 8 | 4°27 | 9 ⁰⁰ 37 | 29°13 | 29 ⁰⁰ 27 | 5°58 | 7°11 | 6°43 | 19°36 | W 2 |
| T 3 | 8 49 20 | 13°10'44 | 22°11 | 12°21 | 7°55 | 5°30 | 16° 6 | 4°33 | 9°35 | 29°13 | 29°26 | 6° 0 | 7° 8 | 6°50 | 19°41 | T 3 |
| F 4 | 8 53 16 | 14°11'39 | 4 ⁰⁰ 22 | 14° 4 | 9° 8 | 6°17 | 16° 5 | 4°38 | 9°33 | 29°14 | 29°25 | 6° 1 | 7° 4 | 6°57 | 19°47 | F 4 |
| S 5 | 8 57 13 | 15°12'34 | 16°22 | 15°48 | 10°22 | 7° 5 | 16° 3 | 4°44 | 9°31 | 29°15 | 29°23 | 6°R 2 | 7° 1 | 7° 3 | 19°52 | S 5 |
| S 6 | 9 1 9 | 16°13'27 | 28°16 | 17°32 | 11°35 | 7°52 | 16° 2 | 4°50 | 9°29 | 29°16 | 29°22 | 6° 1 | 6°58 | 7°10 | 19°58 | S 6 |
| M 7 | 9 5 6 | 17°14'20 | 10 ⁰⁰ 8 | 19°18 | 12°48 | 8°39 | 16° 2 | 4°56 | 9°27 | 29°17 | 29°20 | 5°59 | 6°55 | 7°17 | 20° 3 | M 7 |
| T 8 | 9 9 3 | 18°15'12 | 22° 2 | 21° 3 | 14° 2 | 9°27 | 16° 1 | 5° 2 | 9°25 | 29°18 | 29°19 | 5°57 | 6°52 | 7°23 | 20° 9 | T 8 |
| W 9 | 9 12 59 | 19°16'03 | 4 ⁰⁰ 4 | 22°50 | 15°15 | 10°14 | 16° 1 | 5° 8 | 9°23 | 29°19 | 29°17 | 5°55 | 6°49 | 7°30 | 20°14 | W 9 |
| T 10 | 9 16 56 | 20°16'53 | 16°15 | 24°37 | 16°29 | 11° 1 | 16°D 0 | 5°14 | 9°22 | 29°20 | 29°16 | 5°52 | 6°45 | 7°37 | 20°20 | T 10 |
| F 11 | 9 20 52 | 21°17'42 | 28°38 | 26°24 | 17°42 | 11°49 | 16° 0 | 5°20 | 9°20 | 29°21 | 29°15 | 5°50 | 6°42 | 7°44 | 20°25 | F 11 |
| S 12 | 9 24 49 | 22°18'30 | 11 ⁰⁰ 16 | 28°12 | 18°56 | 12°36 | 16° 1 | 5°26 | 9°18 | 29°22 | 29°13 | 5°48 | 6°39 | 7°50 | 20°30 | S 12 |
| S 13 | 9 28 45 | 23°19'17 | 24° 8 | 0 ⁰⁰ 0 | 20° 9 | 13°23 | 16° 1 | 5°32 | 9°16 | 29°23 | 29°12 | 5°47 | 6°36 | 7°57 | 20°36 | S 13 |
| M14 | 9 32 42 | 24°20'02 | 7 ⁰⁰ 15 | 1°49 | 21°23 | 14°10 | 16° 2 | 5°38 | 9°15 | 29°24 | 29°10 | 5°D47 | 6°33 | 8° 4 | 20°41 | M14 |
| T 15 | 9 36 38 | 25°20'46 | 20°35 | 3°38 | 22°37 | 14°57 | 16° 3 | 5°44 | 9°13 | 29°26 | 29° 9 | 5°47 | 6°29 | 8°11 | 20°46 | T 15 |
| W16 | 9 40 35 | 26°21'29 | 4 ⁰⁰ 8 | 5°27 | 23°50 | 15°45 | 16° 4 | 5°51 | 9°12 | 29°27 | 29° 7 | 5°48 | 6°26 | 8°17 | 20°51 | W16 |
| T 17 | 9 44 32 | 27°22'10 | 17°52 | 7°16 | 25° 4 | 16°32 | 16° 5 | 5°57 | 9°10 | 29°28 | 29° 6 | 5°49 | 6°23 | 8°24 | 20°56 | T 17 |
| F 18 | 9 48 28 | 28°22'49 | 1 ⁰⁰ 46 | 9° 5 | 26°18 | 17°19 | 16° 6 | 6° 4 | 9° 9 | 29°29 | 29° 4 | 5°49 | 6°20 | 8°31 | 21° 1 | F 18 |
| S 19 | 9 52 25 | 29°23'27 | 15°49 | 10°53 | 27°31 | 18° 6 | 16° 8 | 6°10 | 9° 7 | 29°31 | 29° 3 | 5°50 | 6°17 | 8°37 | 21° 6 | S 19 |
| S 20 | 9 56 21 | 0 ⁰⁰ 24'03 | 29°57 | 12°40 | 28°45 | 18°53 | 16°10 | 6°17 | 9° 6 | 29°32 | 29° 1 | 5°R50 | 6°14 | 8°44 | 21°11 | S 20 |
| M21 | 10 0 18 | 1°24'37 | 14 ⁰⁰ 10 | 14°27 | 29°59 | 19°40 | 16°12 | 6°23 | 9° 5 | 29°33 | 29° 0 | 5°50 | 6°10 | 8°51 | 21°16 | M21 |
| T 22 | 10 4 14 | 2°25'10 | 28°25 | 16°12 | 1 ⁰⁰ 12 | 20°27 | 16°14 | 6°30 | 9° 3 | 29°35 | 28°58 | 5°50 | 6° 7 | 8°58 | 21°21 | T 22 |
| W23 | 10 8 11 | 3°25'41 | 12 ⁰⁰ 39 | 17°55 | 2°26 | 21°14 | 16°17 | 6°36 | 9° 2 | 29°36 | 28°57 | 5°49 | 6° 4 | 9° 4 | 21°26 | W23 |
| T 24 | 10 12 7 | 4°26'09 | 26°49 | 19°36 | 3°40 | 22° 1 | 16°19 | 6°43 | 9° 1 | 29°38 | 28°55 | 5°49 | 6° 1 | 9°11 | 21°31 | T 24 |
| F 25 | 10 16 4 | 5°26'37 | 10 ⁰⁰ 52 | 21°14 | 4°54 | 22°48 | 16°22 | 6°50 | 9° 0 | 29°39 | 28°54 | 5°D49 | 5°58 | 9°18 | 21°36 | F 25 |
| S 26 | 10 20 1 | 6°27'02 | 24°43 | 22°49 | 6° 7 | 23°35 | 16°25 | 6°57 | 8°59 | 29°41 | 28°52 | 5°49 | 5°55 | 9°25 | 21°40 | S 26 |
| S 27 | 10 23 57 | 7°27'26 | 8 ⁰⁰ 20 | 24°19 | 7°21 | 24°22 | 16°28 | 7° 4 | 8°58 | 29°42 | 28°51 | 5°R49 | 5°51 | 9°31 | 21°45 | S 27 |
| M28 | 10 27 54 | 8 ⁰⁰ 27'48 | 21 ⁰⁰ 40 | 25 ⁰⁰ 46 | 8 ⁰⁰ 35 | 25 ⁰⁰ 9 | 16 ⁰⁰ 32 | 7 ⁰⁰ 10 | 8 ⁰⁰ 57 | 29 ⁰⁰ 44 | 28 ⁰⁰ 49 | 5 ⁰⁰ 49 | 5 ⁰⁰ 48 | 9 ⁰⁰ 38 | 21 ⁰⁰ 50 | M28 |

| Day | ☉ | ☾ | | ♀ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | ♂ | ♂ | | ♂ | | ♂ | ♂ | ♂ | ♂ | |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | |
| T 1 | 17s25 | 2n57 | 1n53 | 19s59 | 2s 4 | 22s 9 | 1n 9 | 10s59 | 1s 0 | 22n15 | 0s26 | 0s20 | 2s15 | 23n25 | 0n22 | 9n35 | 1s42 | 21n28 | 10n32 | 9n19 | 8n51 | 16s19 | 15s46 | 6n18 |
| W 2 | 17 8 | 1s10 | 2 55 | 19 33 | 2 5 | 22 8 | 1 6 | 10 42 | 1 0 | 22 15 | 0 26 | 0 18 | 2 15 | 23 25 | 0 22 | 9 36 | 1 42 | 21 29 | 10 32 | 9 19 | 8 52 | 16 20 | 15 45 | 6 18 |
| T 3 | 16 51 | 5 6 | 3 48 | 19 5 | 2 5 | 22 7 | 1 3 | 10 24 | 0 59 | 22 15 | 0 26 | 0 15 | 2 15 | 23 25 | 0 22 | 9 36 | 1 42 | 21 30 | 10 32 | 9 18 | 8 53 | 16 21 | 15 44 | 6 18 |
| F 4 | 16 33 | 8 45 | 4 29 | 18 35 | 2 5 | 22 6 | 1 0 | 10 6 | 0 59 | 22 15 | 0 26 | 0 13 | 2 15 | 23 25 | 0 22 | 9 36 | 1 42 | 21 30 | 10 32 | 9 18 | 8 54 | 16 22 | 15 43 | 6 18 |
| S 5 | 16 15 | 11 58 | 4 57 | 18 4 | 2 5 | 22 3 | 0 57 | 9 48 | 0 58 | 22 16 | 0 26 | 0 11 | 2 14 | 23 26 | 0 22 | 9 37 | 1 42 | 21 31 | 10 32 | 9 17 | 8 55 | 16 23 | 15 42 | 6 19 |
| S 6 | 15 57 | 14 40 | 5 12 | 17 32 | 2 4 | 22 1 | 0 54 | 9 30 | 0 58 | 22 16 | 0 25 | 0 8 | 2 14 | 23 26 | 0 22 | 9 37 | 1 41 | 21 32 | 10 32 | 9 18 | 8 57 | 16 24 | 15 41 | 6 19 |
| M 7 | 15 39 | 16 45 | 5 14 | 16 58 | 2 3 | 21 57 | 0 51 | 9 12 | 0 57 | 22 16 | 0 25 | 0 6 | 2 14 | 23 26 | 0 22 | 9 37 | 1 41 | 21 32 | 10 33 | 9 18 | 8 58 | 16 25 | 15 40 | 6 19 |
| T 8 | 15 20 | 18 8 | 5 3 | 16 23 | 2 1 | 21 53 | 0 48 | 8 54 | 0 57 | 22 16 | 0 25 | 0 3 | 2 14 | 23 26 | 0 21 | 9 38 | 1 41 | 21 33 | 10 33 | 9 19 | 8 59 | 16 26 | 15 39 | 6 19 |
| W 9 | 15 2 | 18 43 | 4 38 | 15 46 | 1 59 | 21 48 | 0 45 | 8 36 | 0 56 | 22 16 | 0 25 | 0 1 | 2 14 | 23 26 | 0 21 | 9 38 | 1 41 | 21 34 | 10 33 | 9 20 | 9 0 | 16 27 | 15 38 | 6 20 |
| T 10 | 14 42 | 18 27 | 4 1 | 15 8 | 1 56 | 21 43 | 0 41 | 8 17 | 0 56 | 22 16 | 0 24 | 0n 2 | 2 14 | 23 26 | 0 21 | 9 39 | 1 41 | 21 34 | 10 33 | 9 21 | 9 1 | 16 29 | 15 37 | 6 20 |
| F 11 | 14 23 | 17 17 | 3 11 | 14 28 | 1 53 | 21 36 | 0 38 | 7 59 | 0 55 | 22 16 | 0 24 | 0 4 | 2 14 | 23 26 | 0 21 | 9 39 | 1 41 | 21 35 | 10 33 | 9 22 | 9 2 | 16 30 | 15 35 | 6 20 |
| S 12 | 14 4 | 15 16 | 2 12 | 13 48 | 1 49 | 21 30 | 0 35 | 7 40 | 0 55 | 22 17 | 0 24 | 0 7 | 2 13 | 23 27 | 0 21 | 9 39 | 1 41 | 21 36 | 10 33 | 9 22 | 9 4 | 16 31 | 15 34 | 6 21 |
| S 13 | 13 44 | 12 27 | 1 4 | 13 5 | 1 45 | 21 22 | 0 32 | 7 22 | 0 55 | 22 17 | 0 24 | 0 9 | 2 13 | 23 27 | 0 21 | 9 40 | 1 41 | 21 36 | 10 33 | 9 23 | 9 5 | 16 32 | 15 33 | 6 21 |
| M14 | 13 24 | 8 58 | 0s 8 | 12 22 | 1 40 | 21 14 | 0 29 | 7 3 | 0 54 | 22 17 | 0 24 | 0 12 | 2 13 | 23 27 | 0 21 | 9 40 | 1 41 | 21 37 | 10 33 | 9 23 | 9 6 | 16 33 | 15 32 | 6 21 |
| T 15 | 13 3 | 4 58 | 1 21 | 11 38 | 1 34 | 21 6 | 0 26 | 6 44 | 0 54 | 22 17 | 0 24 | 0 14 | 2 13 | 23 27 | 0 21 | 9 41 | 1 41 | 21 37 | 10 34 | 9 23 | 9 7 | 16 34 | 15 31 | 6 22 |
| W16 | 12 43 | 0 40 | 2 31 | 10 52 | 1 28 | 20 56 | 0 23 | 6 26 | 0 53 | 22 18 | 0 23 | 0 17 | 2 13 | 23 27 | 0 21 | 9 41 | 1 41 | 21 38 | 10 34 | 9 22 | 9 8 | 16 35 | 15 30 | 6 22 |
| T 17 | 12 22 | 3n43 | 3 33 | 10 5 | 1 21 | 20 46 | 0 20 | 6 7 | 0 53 | 22 18 | 0 23 | 0 20 | 2 13 | 23 27 | 0 21 | 9 42 | 1 41 | 21 39 | 10 34 | 9 22 | 9 9 | 16 36 | 15 29 | 6 22 |
| F 18 | 12 1 | 7 58 | 4 23 | 9 17 | 1 13 | 20 36 | 0 16 | 5 48 | 0 52 | 22 18 | 0 23 | 0 22 | 2 13 | 23 27 | 0 21 | 9 42 | 1 41 | 21 39 | 10 34 | 9 22 | 9 11 | 16 37 | 15 28 | 6 23 |
| S 19 | 11 40 | 11 48 | 4 58 | 8 29 | 1 5 | 20 25 | 0 13 | 5 29 | 0 51 | 22 19 | 0 23 | 0 25 | 2 13 | 23 27 | 0 21 | 9 43 | 1 41 | 21 40 | 10 34 | 9 22 | 9 12 | 16 38 | 15 27 | 6 23 |
| S 20 | 11 19 | 14 58 | 5 15 | 7 40 | 0 56 | 20 13 | 0 10 | 5 10 | 0 51 | 22 19 | 0 23 | 0 28 | 2 12 | 23 27 | 0 21 | 9 43 | 1 41 | 21 40 | 10 34 | 9 22 | 9 13 | 16 39 | 15 26 | 6 23 |
| M21 | 10 58 | 17 17 | 5 14 | 6 50 | 0 47 | 20 1 | 0 7 | 4 52 | 0 50 | 22 20 | 0 22 | 0 30 | 2 12 | 23 27 | 0 21 | 9 44 | 1 41 | 21 41 | 10 34 | 9 22 | 9 14 | 16 40 | 15 25 | 6 24 |
| T 22 | 10 36 | 18 31 | 4 53 | 6 0 | 0 36 | 19 48 | 0 4 | 4 33 | 0 50 | 22 20 | 0 22 | 0 33 | 2 12 | 23 27 | 0 21 | 9 44 | 1 41 | 21 42 | 10 34 | 9 22 | 9 15 | 16 41 | 15 24 | 6 24 |
| W23 | 10 14 | 18 36 | 4 14 | 5 10 | 0 26 | 19 34 | 0 1 | 4 14 | 0 49 | 22 20 | 0 22 | 0 36 | 2 12 | 23 28 | 0 21 | 9 45 | 1 41 | 21 42 | 10 34 | 9 22 | 9 17 | 16 42 | 15 23 | 6 24 |
| T 24 | 9 52 | 17 30 | 3 20 | 4 20 | 0 14 | 19 20 | 0s 2 | 3 55 | 0 49 | 22 21 | 0 22 | 0 39 | 2 12 | 23 28 | 0 21 | 9 45 | 1 41 | 21 43 | 10 34 | 9 22 | 9 18 | 16 43 | 15 21 | 6 25 |
| F 25 | 9 30 | 15 20 | 2 14 | 3 30 | 0 2 | 19 6 | 0 5 | 3 35 | 0 48 | 22 21 | 0 22 | 0 41 | 2 12 | 23 28 | 0 21 | 9 46 | 1 41 | 21 43 | 10 34 | 9 22 | 9 19 | 16 44 | 15 20 | 6 25 |
| S 26 | 9 8 | 12 18 | 1 1 | 2 41 | 0n11 | 18 51 | 0 8 | 3 16 | 0 48 | 22 22 | 0 21 | 0 44 | 2 12 | 23 28 | 0 21 | 9 47 | 1 41 | 21 44 | 10 34 | 9 22 | 9 20 | 16 45 | 15 19 | 6 25 |
| S 27 | 8 46 | 8 39 | 0n14 | 1 53 | 0 24 | 18 35 | 0 11 | 2 57 | 0 47 | 22 22 | 0 21 | 0 47 | 2 12 | 23 28 | 0 21 | 9 47 | 1 40 | 21 45 | 10 34 | 9 22 | 9 21 | 16 46 | 15 18 | 6 26 |
| M28 | 8s23 | 4n38 | 1n27 | 1s 6 | 0n38 | 18s19 | 0s14 | 2s38 | 0s47 | 22n23 | 0s21 | 0n50 | 2s12 | 23n28 | 0n21 | 9n48 | 1s40 | 21n45 | 10n34 | 9n22 | 9n22 | 16s47 | 15s17 | 6n26 |

Julian Day Number = 2525719.5, Delta T = 166.04 sec

Ecliptic obliquity = 23°24'38", Nutation = - 0°00'05", out-of-bounds declination in red

ASTRODIENST EPHEMERIS for the year 2203
geocentric

MARCH 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|--------|-------|-------|--------|-------|------|-------|-------|------|
| T 1 | 10 31 50 | 9♂28'08 | 4♂42 | 27♂ 7 | 9♂49 | 25♂56 | 16♂35 | 7♂17 | 8°R56 | 29♀45 | 28°R48 | 5°R49 | 5♂45 | 9♂45 | 21♂54 | T 1 |
| W 2 | 10 35 47 | 10°28'27 | 17°26 | 28°22 | 11° 3 | 26°43 | 16°39 | 7°24 | 8♂55 | 29°47 | 28♂46 | 5♂48 | 5°42 | 9°51 | 21°59 | W 2 |
| T 3 | 10 39 43 | 11°28'44 | 29°54 | 29°32 | 12°17 | 27°30 | 16°43 | 7°31 | 8°54 | 29°49 | 28°45 | 5°48 | 5°39 | 9°58 | 22° 3 | T 3 |
| F 4 | 10 43 40 | 12°29'00 | 12♂ 8 | 0♂34 | 13°30 | 28°16 | 16°47 | 7°38 | 8°53 | 29°50 | 28°44 | 5°47 | 5°35 | 10° 5 | 22° 8 | F 4 |
| S 5 | 10 47 36 | 13°29'15 | 24°10 | 1°28 | 14°44 | 29° 3 | 16°51 | 7°45 | 8°53 | 29°52 | 28°42 | 5°46 | 5°32 | 10°12 | 22°12 | S 5 |
| S 6 | 10 51 33 | 14°29'27 | 6♂ 5 | 2°15 | 15°58 | 29°50 | 16°56 | 7°52 | 8°52 | 29°54 | 28°41 | 5°45 | 5°29 | 10°18 | 22°16 | S 6 |
| M 7 | 10 55 29 | 15°29'39 | 17°58 | 2°53 | 17°12 | 0♂37 | 17° 0 | 8° 0 | 8°51 | 29°55 | 28°39 | 5°D45 | 5°26 | 10°25 | 22°20 | M 7 |
| T 8 | 10 59 26 | 16°29'49 | 29°53 | 3°22 | 18°26 | 1°23 | 17° 5 | 8° 7 | 8°51 | 29°57 | 28°38 | 5°46 | 5°23 | 10°32 | 22°25 | T 8 |
| W 9 | 11 3 23 | 17°29'57 | 11♂54 | 3°42 | 19°40 | 2°10 | 17°10 | 8°14 | 8°50 | 29°59 | 28°36 | 5°47 | 5°20 | 10°38 | 22°29 | W 9 |
| T 10 | 11 7 19 | 18°30'04 | 24° 7 | 3°53 | 20°54 | 2°57 | 17°15 | 8°21 | 8°50 | 0♂ 1 | 28°35 | 5°48 | 5°16 | 10°45 | 22°33 | T 10 |
| F 11 | 11 11 16 | 19°30'09 | 6♂35 | 3°R54 | 22° 8 | 3°43 | 17°21 | 8°28 | 8°50 | 0° 2 | 28°34 | 5°49 | 5°13 | 10°52 | 22°37 | F 11 |
| S 12 | 11 15 12 | 20°30'13 | 19°21 | 3°46 | 23°22 | 4°30 | 17°26 | 8°36 | 8°49 | 0° 4 | 28°32 | 5°50 | 5°10 | 10°59 | 22°41 | S 12 |
| S 13 | 11 19 9 | 21°30'14 | 2♂27 | 3°30 | 24°36 | 5°16 | 17°32 | 8°43 | 8°49 | 0° 6 | 28°31 | 5°R51 | 5° 7 | 11° 5 | 22°44 | S 13 |
| M14 | 11 23 5 | 22°30'14 | 15°53 | 3° 5 | 25°50 | 6° 3 | 17°38 | 8°50 | 8°49 | 0° 8 | 28°30 | 5°50 | 5° 4 | 11°12 | 22°48 | M14 |
| T 15 | 11 27 2 | 23°30'12 | 29°38 | 2°33 | 27° 3 | 6°49 | 17°44 | 8°58 | 8°49 | 0°10 | 28°28 | 5°49 | 5° 0 | 11°19 | 22°52 | T 15 |
| W16 | 11 30 58 | 24°30'08 | 13♂40 | 1°54 | 28°17 | 7°35 | 17°50 | 9° 5 | 8°48 | 0°12 | 28°27 | 5°47 | 4°57 | 11°26 | 22°56 | W16 |
| T 17 | 11 34 55 | 25°30'02 | 27°53 | 1° 9 | 29°31 | 8°22 | 17°56 | 9°12 | 8°48 | 0°14 | 28°26 | 5°45 | 4°54 | 11°32 | 22°59 | T 17 |
| F 18 | 11 38 52 | 26°29'54 | 12♂14 | 0°19 | 0♂45 | 9° 8 | 18° 3 | 9°20 | 8°D48 | 0°16 | 28°24 | 5°42 | 4°51 | 11°39 | 23° 3 | F 18 |
| S 19 | 11 42 48 | 27°29'44 | 26°37 | 29♂25 | 1°59 | 9°54 | 18° 9 | 9°27 | 8°48 | 0°18 | 28°23 | 5°39 | 4°48 | 11°46 | 23° 6 | S 19 |
| S 20 | 11 46 45 | 28°29'32 | 10♂58 | 28°30 | 3°13 | 10°41 | 18°16 | 9°34 | 8°48 | 0°19 | 28°22 | 5°37 | 4°45 | 11°52 | 23°10 | S 20 |
| M21 | 11 50 41 | 29°29'18 | 25°13 | 27°33 | 4°27 | 11°27 | 18°23 | 9°42 | 8°49 | 0°21 | 28°21 | 5°D36 | 4°41 | 11°59 | 23°13 | M21 |
| T 22 | 11 54 38 | 0♂29'01 | 9♂20 | 26°36 | 5°41 | 12°13 | 18°30 | 9°49 | 8°49 | 0°24 | 28°19 | 5°36 | 4°38 | 12° 6 | 23°16 | T 22 |
| W23 | 11 58 34 | 1°28'42 | 23°17 | 25°41 | 6°55 | 12°59 | 18°38 | 9°57 | 8°49 | 0°26 | 28°18 | 5°38 | 4°35 | 12°13 | 23°20 | W23 |
| T 24 | 12 2 31 | 2°28'20 | 7♂ 3 | 24°48 | 8° 9 | 13°45 | 18°45 | 10° 4 | 8°49 | 0°28 | 28°17 | 5°39 | 4°32 | 12°19 | 23°23 | T 24 |
| F 25 | 12 6 27 | 3°27'57 | 20°38 | 23°59 | 9°23 | 14°31 | 18°52 | 10°12 | 8°50 | 0°30 | 28°16 | 5°41 | 4°29 | 12°26 | 23°26 | F 25 |
| S 26 | 12 10 24 | 4°27'31 | 4♂ 2 | 23°13 | 10°37 | 15°17 | 19° 0 | 10°19 | 8°50 | 0°32 | 28°15 | 5°R41 | 4°26 | 12°33 | 23°29 | S 26 |
| S 27 | 12 14 21 | 5°27'02 | 17°13 | 22°33 | 11°51 | 16° 3 | 19° 8 | 10°27 | 8°50 | 0°34 | 28°13 | 5°41 | 4°22 | 12°39 | 23°32 | S 27 |
| M28 | 12 18 17 | 6°26'32 | 0♂12 | 21°58 | 13° 5 | 16°49 | 19°16 | 10°34 | 8°51 | 0°36 | 28°12 | 5°39 | 4°19 | 12°46 | 23°34 | M28 |
| T 29 | 12 22 14 | 7°26'00 | 12°58 | 21°28 | 14°19 | 17°35 | 19°24 | 10°42 | 8°52 | 0°38 | 28°11 | 5°35 | 4°16 | 12°53 | 23°37 | T 29 |
| W30 | 12 26 10 | 8°25'26 | 25°32 | 21° 4 | 15°33 | 18°21 | 19°32 | 10°49 | 8°52 | 0°40 | 28°10 | 5°30 | 4°13 | 13° 0 | 23°40 | W30 |
| T 31 | 12 30 7 | 9°♀24'49 | 7♂54 | 20♂47 | 16♂47 | 19°♀ 7 | 19♂41 | 10°♀57 | 8♂53 | 0♂42 | 28♂ 9 | 5♂24 | 4♂10 | 13♂ 6 | 23♂43 | T 31 |

| Day | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|-------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | lat |
| T 1 | 8s 1 | 0n29 | 2n33 | 0s21 | 0n52 | 18s 2 | 0s16 | 2s19 | 0s46 | 22n23 | 0s21 | 0n52 | 2s12 | 23n28 | 0n21 | 9n48 |
| W 2 | 7 38 | 3s35 | 3 31 | 0n22 | 1 6 | 17 45 | 0 19 | 2 0 | 0 46 | 22 24 | 0 21 | 0 55 | 2 11 | 23 28 | 0 21 | 9 49 |
| T 3 | 7 15 | 7 25 | 4 17 | 1 3 | 1 21 | 17 27 | 0 22 | 1 41 | 0 45 | 22 25 | 0 20 | 0 58 | 2 11 | 23 28 | 0 21 | 9 50 |
| F 4 | 6 52 | 10 51 | 4 50 | 1 41 | 1 36 | 17 9 | 0 25 | 1 22 | 0 44 | 22 25 | 0 20 | 1 1 | 2 11 | 23 28 | 0 21 | 9 50 |
| S 5 | 6 29 | 13 46 | 5 10 | 2 16 | 1 50 | 16 50 | 0 28 | 1 3 | 0 44 | 22 26 | 0 20 | 1 4 | 2 11 | 23 28 | 0 21 | 9 51 |
| S 6 | 6 6 | 16 6 | 5 17 | 2 48 | 2 4 | 16 31 | 0 30 | 0 44 | 0 43 | 22 26 | 0 20 | 1 7 | 2 11 | 23 28 | 0 21 | 9 51 |
| M 7 | 5 43 | 17 43 | 5 10 | 3 15 | 2 18 | 16 11 | 0 33 | 0 25 | 0 43 | 22 27 | 0 20 | 1 9 | 2 11 | 23 28 | 0 21 | 9 52 |
| T 8 | 5 19 | 18 35 | 4 49 | 3 39 | 2 31 | 15 51 | 0 35 | 0 6 | 0 42 | 22 28 | 0 20 | 1 12 | 2 11 | 23 28 | 0 21 | 9 53 |
| W 9 | 4 56 | 18 38 | 4 16 | 3 58 | 2 44 | 15 30 | 0 38 | 0n14 | 0 41 | 22 28 | 0 19 | 1 15 | 2 11 | 23 28 | 0 21 | 9 53 |
| T 10 | 4 33 | 17 48 | 3 31 | 4 13 | 2 55 | 15 9 | 0 40 | 0 33 | 0 41 | 22 29 | 0 19 | 1 18 | 2 11 | 23 28 | 0 21 | 9 54 |
| F 11 | 4 9 | 16 6 | 2 35 | 4 24 | 3 6 | 14 48 | 0 43 | 0 52 | 0 40 | 22 30 | 0 19 | 1 21 | 2 11 | 23 28 | 0 21 | 9 55 |
| S 12 | 3 46 | 13 35 | 1 30 | 4 29 | 3 15 | 14 26 | 0 45 | 1 11 | 0 40 | 22 30 | 0 19 | 1 24 | 2 11 | 23 28 | 0 21 | 9 55 |
| S 13 | 3 22 | 10 18 | 0 19 | 4 30 | 3 23 | 14 3 | 0 48 | 1 30 | 0 39 | 22 31 | 0 19 | 1 27 | 2 11 | 23 28 | 0 21 | 9 56 |
| M14 | 2 58 | 6 24 | 0s55 | 4 25 | 3 29 | 13 41 | 0 50 | 1 48 | 0 39 | 22 32 | 0 19 | 1 30 | 2 11 | 23 28 | 0 21 | 9 57 |
| T 15 | 2 35 | 2 6 | 2 8 | 4 16 | 3 33 | 13 18 | 0 52 | 2 7 | 0 38 | 22 32 | 0 18 | 1 33 | 2 11 | 23 28 | 0 21 | 9 57 |
| W16 | 2 11 | 2n24 | 3 14 | 4 3 | 3 36 | 12 54 | 0 54 | 2 26 | 0 37 | 22 33 | 0 18 | 1 36 | 2 11 | 23 28 | 0 21 | 9 58 |
| T 17 | 1 47 | 6 50 | 4 3 | 3 46 | 3 36 | 12 31 | 0 57 | 2 45 | 0 37 | 22 34 | 0 18 | 1 38 | 2 11 | 23 28 | 0 21 | 9 59 |
| F 18 | 1 23 | 10 54 | 4 49 | 3 24 | 3 35 | 12 6 | 0 59 | 3 4 | 0 36 | 22 35 | 0 18 | 1 41 | 2 11 | 23 28 | 0 21 | 9 59 |
| S 19 | 1 0 | 14 20 | 5 11 | 3 0 | 3 31 | 11 42 | 1 1 | 3 23 | 0 36 | 22 35 | 0 18 | 1 44 | 2 11 | 23 28 | 0 21 | 10 0 |
| S 20 | 0 36 | 16 53 | 5 13 | 2 33 | 3 26 | 11 17 | 1 3 | 3 41 | 0 35 | 22 36 | 0 18 | 1 47 | 2 11 | 23 28 | 0 21 | 10 1 |
| M21 | 0 12 | 18 23 | 4 56 | 2 4 | 3 18 | 10 52 | 1 5 | 4 0 | 0 34 | 22 37 | 0 17 | 1 50 | 2 11 | 23 28 | 0 21 | 10 2 |
| T 22 | 0n12 | 18 44 | 4 22 | 1 33 | 3 10 | 10 27 | 1 6 | 4 18 | 0 34 | 22 38 | 0 17 | 1 53 | 2 11 | 23 28 | 0 21 | 10 2 |
| W23 | 0 35 | 17 55 | 3 32 | 1 2 | 2 59 | 10 1 | 1 8 | 4 37 | 0 33 | 22 38 | 0 17 | 1 56 | 2 11 | 23 28 | 0 21 | 10 3 |
| T 24 | 0 59 | 16 3 | 2 31 | 0 30 | 2 47 | 9 35 | 1 10 | 4 55 | 0 32 | 22 39 | 0 17 | 1 59 | 2 10 | 23 28 | 0 21 | 10 4 |
| F 25 | 1 23 | 13 18 | 1 22 | 0s 2 | 2 34 | 9 9 | 1 12 | 5 14 | 0 32 | 22 40 | 0 17 | 2 2 | 2 10 | 23 28 | 0 21 | 10 5 |
| S 26 | 1 46 | 9 53 | 0 9 | 0 32 | 2 20 | 8 42 | 1 13 | 5 32 | 0 31 | 22 41 | 0 17 | 2 5 | 2 10 | 23 28 | 0 21 | 10 5 |
| S 27 | 2 10 | 6 0 | 1n 3 | 1 2 | 2 6 | 8 16 | 1 15 | 5 50 | 0 31 | 22 42 | 0 16 | 2 8 | 2 10 | 23 28 | 0 21 | 10 6 |
| M28 | 2 33 | 1 55 | 2 10 | 1 29 | 1 51 | 7 49 | 1 16 | 6 9 | 0 30 | 22 42 | 0 16 | 2 11 | 2 10 | 23 28 | 0 21 | 10 7 |
| T 29 | 2 57 | 2s12 | 3 10 | 1 55 | 1 35 | 7 22 | 1 18 | 6 27 | 0 29 | 22 43 | 0 16 | 2 14 | 2 10 | 23 28 | 0 21 | 10 8 |
| W30 | 3 20 | 6 9 | 3 59 | 2 19 | 1 20 | 6 54 | 1 19 | 6 45 | 0 29 | 22 44 | 0 16 | 2 17 | 2 10 | 23 28 | 0 21 | 10 8 |
| T 31 | 3n44 | 9s46 | 4n36 | 2s40 | 1n 4 | 6s27 | 1s20 | 7n 3 | 0s28 | 22n45 | 0s16 | 2n19 | 2s10 | 23n28 | 0n21 | 10n 9 |

Julian Day Number = 2525747.5, Delta T = 166.12 sec
Ecliptic obliquity = 23°24'38, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°34'46, Lahiri = 26°41'46

ASTRODIENST EPHEMERIS for the year 2203

geocentric

APRIL 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------|--------|--------|--------|--------|---------|--------|-------|-------|--------|-------|-------|--------|--------|------|
| F 1 | 12 34 3 | 10°Y24'11 | 20°M 4 | 20°R35 | 18°K 0 | 19°Y53 | 19°II49 | 11°Y 4 | 8°S54 | 0°B44 | 28°R 8 | 5°R18 | 4°M 6 | 13°A13 | 23°B45 | F 1 |
| S 2 | 12 38 0 | 11°23'31 | 2°A 5 | 20°K29 | 19°14 | 20°38 | 19°58 | 11°12 | 8°54 | 0°47 | 28°Q 7 | 5°M12 | 4° 3 | 13°20 | 23°48 | S 2 |
| S 3 | 12 41 56 | 12°22'50 | 14° 0 | 20°D29 | 20°28 | 21°24 | 20° 6 | 11°19 | 8°55 | 0°49 | 28° 6 | 5° 7 | 4° 0 | 13°27 | 23°50 | S 3 |
| M 4 | 12 45 53 | 13°22'06 | 25°52 | 20°34 | 21°42 | 22°10 | 20°15 | 11°27 | 8°56 | 0°51 | 28° 5 | 5° 3 | 3°57 | 13°33 | 23°52 | M 4 |
| T 5 | 12 49 49 | 14°21'21 | 7°B46 | 20°45 | 22°56 | 22°55 | 20°24 | 11°34 | 8°57 | 0°53 | 28° 4 | 5° 2 | 3°54 | 13°40 | 23°55 | T 5 |
| W 6 | 12 53 46 | 15°20'34 | 19°46 | 21° 1 | 24°10 | 23°41 | 20°33 | 11°42 | 8°58 | 0°55 | 28° 3 | 5°D 2 | 3°51 | 13°47 | 23°57 | W 6 |
| T 7 | 12 57 43 | 16°19'45 | 1°B57 | 21°22 | 25°24 | 24°26 | 20°43 | 11°49 | 8°59 | 0°57 | 28° 2 | 5° 3 | 3°47 | 13°53 | 23°59 | T 7 |
| F 8 | 13 1 39 | 17°18'54 | 14°24 | 21°47 | 26°38 | 25°12 | 20°52 | 11°57 | 9° 0 | 1° 0 | 28° 1 | 5° 4 | 3°44 | 14° 0 | 24° 1 | F 8 |
| S 9 | 13 5 36 | 18°18'02 | 27°11 | 22°17 | 27°52 | 25°57 | 21° 1 | 12° 4 | 9° 1 | 1° 2 | 28° 1 | 5° 5 | 3°41 | 14° 7 | 24° 3 | S 9 |
| S 10 | 13 9 32 | 19°17'08 | 10°K22 | 22°52 | 29° 6 | 26°42 | 21°11 | 12°12 | 9° 2 | 1° 4 | 28° 0 | 5°R 5 | 3°38 | 14°14 | 24° 5 | S 10 |
| M11 | 13 13 29 | 20°16'12 | 23°30 | 23°30 | 0°Y20 | 27°28 | 21°21 | 12°19 | 9° 4 | 1° 6 | 27°59 | 5° 4 | 3°35 | 14°20 | 24° 6 | M11 |
| T 12 | 13 17 25 | 21°15'14 | 8°Y 1 | 24°12 | 1°34 | 28°13 | 21°30 | 12°27 | 9° 5 | 1° 9 | 27°58 | 5° 0 | 3°31 | 14°27 | 24° 8 | T 12 |
| W13 | 13 21 22 | 22°14'14 | 22°25 | 24°58 | 2°48 | 28°58 | 21°40 | 12°34 | 9° 6 | 1°11 | 27°57 | 4°55 | 3°28 | 14°34 | 24°10 | W13 |
| T 14 | 13 25 18 | 23°13'12 | 7°B 5 | 25°47 | 4° 2 | 29°43 | 21°50 | 12°41 | 9° 8 | 1°13 | 27°57 | 4°47 | 3°25 | 14°40 | 24°11 | T 14 |
| F 15 | 13 29 15 | 24°12'08 | 21°54 | 26°40 | 5°15 | 0°B28 | 22° 0 | 12°49 | 9° 9 | 1°15 | 27°56 | 4°40 | 3°22 | 14°47 | 24°13 | F 15 |
| S 16 | 13 33 12 | 25°11'02 | 6°II43 | 27°35 | 6°29 | 1°13 | 22°11 | 12°56 | 9°11 | 1°18 | 27°55 | 4°32 | 3°19 | 14°54 | 24°14 | S 16 |
| S 17 | 13 37 8 | 26° 9'54 | 21°26 | 28°34 | 7°43 | 1°59 | 22°21 | 13° 4 | 9°12 | 1°20 | 27°55 | 4°26 | 3°16 | 15° 1 | 24°15 | S 17 |
| M18 | 13 41 5 | 27° 8'43 | 5°S54 | 29°35 | 8°57 | 2°43 | 22°31 | 13°11 | 9°14 | 1°22 | 27°54 | 4°22 | 3°12 | 15° 7 | 24°17 | M18 |
| T 19 | 13 45 1 | 28° 7'31 | 20° 6 | 0°Y39 | 10°11 | 3°28 | 22°42 | 13°18 | 9°15 | 1°24 | 27°53 | 4°20 | 3° 9 | 15°14 | 24°18 | T 19 |
| W20 | 13 48 58 | 29° 6'16 | 3°Q59 | 1°46 | 11°25 | 4°13 | 22°52 | 13°26 | 9°17 | 1°27 | 27°53 | 4°D20 | 3° 6 | 15°21 | 24°19 | W20 |
| T 21 | 13 52 54 | 0°B 4'58 | 17°34 | 2°55 | 12°39 | 4°58 | 23° 3 | 13°33 | 9°19 | 1°29 | 27°52 | 4°21 | 3° 3 | 15°27 | 24°20 | T 21 |
| F 22 | 13 56 51 | 1° 3'39 | 0°M51 | 4° 6 | 13°53 | 5°43 | 23°14 | 13°40 | 9°21 | 1°31 | 27°52 | 4°R22 | 3° 0 | 15°34 | 24°21 | F 22 |
| S 23 | 14 0 47 | 2° 2'17 | 13°54 | 5°20 | 15° 6 | 6°28 | 23°25 | 13°48 | 9°22 | 1°33 | 27°51 | 4°21 | 2°57 | 15°41 | 24°21 | S 23 |
| S 24 | 14 4 44 | 3° 0'53 | 26°45 | 6°35 | 16°20 | 7°12 | 23°36 | 13°55 | 9°24 | 1°36 | 27°51 | 4°19 | 2°53 | 15°48 | 24°22 | S 24 |
| M25 | 14 8 41 | 3°59'27 | 9°A23 | 7°53 | 17°34 | 7°57 | 23°47 | 14° 2 | 9°26 | 1°38 | 27°50 | 4°14 | 2°50 | 15°54 | 24°23 | M25 |
| T 26 | 14 12 37 | 4°57'59 | 21°52 | 9°14 | 18°48 | 8°41 | 23°58 | 14° 9 | 9°28 | 1°40 | 27°50 | 4° 7 | 2°47 | 16° 1 | 24°23 | T 26 |
| W27 | 14 16 34 | 5°56'29 | 4°M12 | 10°36 | 20° 2 | 9°26 | 24° 9 | 14°17 | 9°30 | 1°42 | 27°49 | 3°57 | 2°44 | 16° 8 | 24°24 | W27 |
| T 28 | 14 20 30 | 6°54'57 | 16°23 | 12° 0 | 21°16 | 10°10 | 24°20 | 14°24 | 9°32 | 1°45 | 27°49 | 3°45 | 2°41 | 16°15 | 24°24 | T 28 |
| F 29 | 14 24 27 | 7°53'23 | 28°27 | 13°26 | 22°29 | 10°55 | 24°32 | 14°31 | 9°34 | 1°47 | 27°49 | 3°33 | 2°37 | 16°21 | 24°25 | F 29 |
| S 30 | 14 28 23 | 8°51'48 | 10°A24 | 14°Y54 | 23°Y43 | 11°B39 | 24°II43 | 14°Y38 | 9°S36 | 1°B49 | 27°Q48 | 3°M22 | 2°M34 | 16°A28 | 24°S25 | S 30 |

| Day | ☉ | ☾ | | ♂ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| F 1 | 4n 7 | 12s55 | 5n 0 | 2s59 | 0n49 | 5s59 | 1s22 | 7n20 | 0s27 | 22n46 | 0s16 | 2n22 | 2s11 | 23n28 | 0n21 | 10n10 | 1s39 | 21n58 | 10n32 | 9n34 | 9n59 | 17s19 | 14s43 | 6n42 | |
| S 2 | 4 30 | 15 29 | 5 10 | 3 15 | 0 33 | 5 31 | 1 23 | 7 38 | 0 27 | 22 46 | 0 15 | 2 25 | 2 11 | 23 28 | 0 21 | 10 11 | 1 39 | 21 58 | 10 32 | 9 36 | 10 1 | 17 20 | 14 42 | 6 43 | |
| S 3 | 4 53 | 17 22 | 5 7 | 3 29 | 0 19 | 5 3 | 1 24 | 7 56 | 0 26 | 22 47 | 0 15 | 2 28 | 2 11 | 23 28 | 0 21 | 10 11 | 1 39 | 21 59 | 10 32 | 9 37 | 10 2 | 17 21 | 14 41 | 6 43 | |
| M 4 | 5 16 | 18 30 | 4 51 | 3 40 | 0 4 | 4 35 | 1 25 | 8 13 | 0 25 | 22 48 | 0 15 | 2 31 | 2 11 | 23 28 | 0 21 | 10 12 | 1 39 | 21 59 | 10 32 | 9 39 | 10 3 | 17 22 | 14 40 | 6 44 | |
| T 5 | 5 39 | 18 50 | 4 22 | 3 49 | 0s10 | 4 7 | 1 26 | 8 31 | 0 25 | 22 49 | 0 15 | 2 34 | 2 11 | 23 28 | 0 21 | 10 13 | 1 39 | 21 59 | 10 32 | 9 39 | 10 4 | 17 23 | 14 39 | 6 44 | |
| W 6 | 6 2 | 18 19 | 3 41 | 3 55 | 0 23 | 3 38 | 1 27 | 8 48 | 0 24 | 22 50 | 0 15 | 2 37 | 2 11 | 23 27 | 0 21 | 10 14 | 1 39 | 21 59 | 10 32 | 9 39 | 10 5 | 17 24 | 14 38 | 6 45 | |
| T 7 | 6 25 | 16 56 | 2 50 | 3 58 | 0 36 | 3 10 | 1 27 | 9 6 | 0 24 | 22 50 | 0 15 | 2 40 | 2 11 | 23 27 | 0 21 | 10 14 | 1 39 | 21 59 | 10 32 | 9 39 | 10 6 | 17 25 | 14 37 | 6 46 | |
| F 8 | 6 47 | 14 44 | 1 50 | 3 59 | 0 48 | 2 41 | 1 28 | 9 23 | 0 23 | 22 51 | 0 15 | 2 43 | 2 11 | 23 27 | 0 21 | 10 15 | 1 39 | 22 0 | 10 31 | 9 38 | 10 8 | 17 25 | 14 37 | 6 46 | |
| S 9 | 7 10 | 11 46 | 0 43 | 3 58 | 1 0 | 2 12 | 1 29 | 9 40 | 0 22 | 22 52 | 0 14 | 2 46 | 2 11 | 23 27 | 0 21 | 10 16 | 1 39 | 22 0 | 10 31 | 9 38 | 10 9 | 17 26 | 14 36 | 6 47 | |
| S 10 | 7 32 | 8 7 | 0s29 | 3 55 | 1 11 | 1 44 | 1 29 | 9 57 | 0 22 | 22 53 | 0 14 | 2 48 | 2 11 | 23 27 | 0 21 | 10 17 | 1 39 | 22 0 | 10 31 | 9 38 | 10 10 | 17 27 | 14 35 | 6 47 | |
| M11 | 7 55 | 3 55 | 1 40 | 3 49 | 1 21 | 1 15 | 1 30 | 10 14 | 0 21 | 22 54 | 0 14 | 2 51 | 2 11 | 23 27 | 0 21 | 10 18 | 1 39 | 22 0 | 10 31 | 9 39 | 10 11 | 17 28 | 14 34 | 6 48 | |
| T 12 | 8 17 | 0n36 | 2 48 | 3 42 | 1 31 | 0 46 | 1 30 | 10 31 | 0 20 | 22 54 | 0 14 | 2 54 | 2 11 | 23 27 | 0 21 | 10 18 | 1 39 | 22 0 | 10 31 | 9 40 | 10 12 | 17 29 | 14 33 | 6 49 | |
| W13 | 8 39 | 5 12 | 3 47 | 3 32 | 1 40 | 0 17 | 1 31 | 10 47 | 0 20 | 22 55 | 0 14 | 2 57 | 2 11 | 23 27 | 0 21 | 10 19 | 1 39 | 22 0 | 10 31 | 9 42 | 10 13 | 17 30 | 14 32 | 6 49 | |
| T 14 | 9 1 | 9 34 | 4 32 | 3 20 | 1 49 | 0n12 | 1 31 | 11 4 | 0 19 | 22 56 | 0 14 | 3 0 | 2 11 | 23 27 | 0 21 | 10 20 | 1 39 | 22 0 | 10 30 | 9 45 | 10 14 | 17 31 | 14 31 | 6 50 | |
| F 15 | 9 22 | 13 24 | 4 59 | 3 7 | 1 57 | 0 41 | 1 31 | 11 20 | 0 18 | 22 57 | 0 14 | 3 3 | 2 11 | 23 27 | 0 21 | 10 21 | 1 39 | 22 0 | 10 30 | 9 47 | 10 16 | 17 32 | 14 30 | 6 50 | |
| S 16 | 9 44 | 16 22 | 5 7 | 2 52 | 2 4 | 1 10 | 1 32 | 11 37 | 0 18 | 22 57 | 0 13 | 3 5 | 2 11 | 23 26 | 0 21 | 10 21 | 1 39 | 22 0 | 10 30 | 9 50 | 10 17 | 17 33 | 14 30 | 6 51 | |
| S 17 | 10 5 | 18 15 | 4 54 | 2 35 | 2 11 | 1 39 | 1 32 | 11 53 | 0 17 | 22 58 | 0 13 | 3 8 | 2 11 | 23 26 | 0 21 | 10 22 | 1 39 | 22 0 | 10 30 | 9 52 | 10 18 | 17 34 | 14 29 | 6 52 | |
| M18 | 10 27 | 18 55 | 4 22 | 2 16 | 2 17 | 2 8 | 1 32 | 12 9 | 0 16 | 22 59 | 0 13 | 3 11 | 2 11 | 23 26 | 0 21 | 10 23 | 1 39 | 22 1 | 10 30 | 9 54 | 10 19 | 17 35 | 14 28 | 6 52 | |
| T 19 | 10 48 | 18 22 | 3 35 | 1 55 | 2 23 | 2 37 | 1 32 | 12 25 | 0 16 | 23 0 | 0 13 | 3 14 | 2 11 | 23 26 | 0 21 | 10 24 | 1 39 | 22 1 | 10 29 | 9 54 | 10 20 | 17 35 | 14 27 | 6 53 | |
| W20 | 11 9 | 16 43 | 2 36 | 1 34 | 2 28 | 3 6 | 1 32 | 12 40 | 0 15 | 23 0 | 0 13 | 3 17 | 2 11 | 23 26 | 0 21 | 10 25 | 1 39 | 22 1 | 10 29 | 9 55 | 10 21 | 17 36 | 14 26 | 6 53 | |
| T 21 | 11 29 | 14 8 | 1 29 | 1 10 | 2 32 | 3 35 | 1 32 | 12 56 | 0 14 | 23 1 | 0 13 | 3 19 | 2 11 | 23 26 | 0 21 | 10 25 | 1 39 | 22 1 | 10 29 | 9 54 | 10 22 | 17 37 | 14 26 | 6 54 | |
| F 22 | 11 50 | 10 52 | 0 19 | 0 45 | 2 36 | 4 4 | 1 31 | 13 12 | 0 14 | 23 2 | 0 13 | 3 22 | 2 11 | 23 26 | 0 21 | 10 26 | 1 39 | 22 1 | 10 29 | 9 54 | 10 24 | 17 38 | 14 25 | 6 55 | |
| S 23 | 12 10 | 7 6 | 0n51 | 0 19 | 2 39 | 4 33 | 1 31 | 13 27 | 0 13 | 23 2 | 0 13 | 3 25 | 2 12 | 23 26 | 0 21 | 10 27 | 1 39 | 22 1 | 10 29 | 9 54 | 10 25 | 17 39 | 14 24 | 6 55 | |
| S 24 | 12 30 | 3 5 | 1 57 | 0n 9 | 2 41 | 5 1 | 1 31 | 13 42 | 0 13 | 23 3 | 0 12 | 3 28 | 2 12 | 23 25 | 0 21 | 10 28 | 1 39 | 22 1 | 10 28 | 9 55 | 10 26 | 17 40 | 14 24 | 6 56 | |
| M25 | 12 50 | 1s 1 | 2 56 | 0 37 | 2 43 | 5 30 | 1 30 | 13 57 | 0 12 | 23 4 | 0 12 | 3 30 | 2 12 | 23 25 | 0 21 | 10 28 | 1 39 | 22 1 | 10 28 | 9 57 | 10 27 | 17 41 | 14 23 | 6 56 | |
| T 26 | 13 10 | 5 2 | 3 45 | 1 8 | 2 45 | 5 58 | 1 30 | 14 12 | 0 11 | 23 4 | 0 12 | 3 33 | 2 12 | 23 25 | 0 21 | 10 29 | 1 39 | 22 1 | 10 28 | 9 59 | 10 28 | 17 42 | 14 22 | 6 57 | |
| W27 | 13 29 | 8 46 | 4 23 | 1 39 | 2 46 | 6 27 | 1 29 | 14 27 | 0 11 | 23 5 | 0 12 | 3 36 | 2 12 | 23 25 | 0 21 | 10 30 | 1 39 | 22 0 | 10 28 | 10 3 | 10 29 | 17 43 | 14 21 | 6 58 | |
| T 28 | 13 48 | 12 6 | 4 49 | 2 11 | 2 46 | 6 55 | 1 29 | 14 42 | 0 10 | 23 5 | 0 12 | 3 38 | 2 12 | 23 25 | 0 21 | 10 31 | 1 39 | 22 0 | 10 28 | 10 7 | 10 30 | 17 43 | 14 21 | 6 58 | |
| F 29 | 14 7 | 14 53 | 5 1 | 2 45 | 2 46 | 7 23 | 1 28 | 14 56 | 0 9 | 23 6 | 0 12 | 3 41 | 2 12 | 23 25 | 0 21 | 10 32 | 1 39 | 22 0 | 10 27 | 10 11 | 10 32 | 17 44 | 14 20 | 6 59 | |
| S 30 | 14n26 | 17s 2 | 5n 0 | 3n20 | 2s45 | 7n51 | 1s27 | 15n10 | 0s 9 | 23n 7 | 0s12 | 3n44 | 2s12 | 23n25 | 0n21 | 10n32 | 1s39 | 22n 0 | 10n27 | 10n16 | 10n33 | 17s45 | 14s19 | 6n59 | |

ASTRODIENST EPHEMERIS for the year 2203

geocentric

MAY 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|--------|-------|------|-------|--------|------|
| S 1 | 14 32 20 | 9♂50'11 | 22♂17 | 16♂24 | 24♂57 | 12♂23 | 24♂55 | 14♂45 | 9♂39 | 1♂51 | 27♂48 | 3♂12 | 2♂31 | 16♂35 | 24♂25 | S 1 |
| M 2 | 14 36 16 | 10°48'32 | 4♂8 | 17°55 | 26°11 | 13°8 | 25°6 | 14°52 | 9°41 | 1°54 | 27♂48 | 3♂4 | 2°28 | 16°41 | 24°R25 | M 2 |
| T 3 | 14 40 13 | 11°46'52 | 16°1 | 19°29 | 27°25 | 13°52 | 25°18 | 14°59 | 9°43 | 1°56 | 27°48 | 2°58 | 2°25 | 16°48 | 24°25 | T 3 |
| W 4 | 14 44 10 | 12°45'10 | 27°59 | 21°5 | 28°38 | 14°36 | 25°30 | 15°6 | 9°45 | 1°58 | 27°47 | 2°55 | 2°22 | 16°55 | 24°25 | W 4 |
| T 5 | 14 48 6 | 13°43'26 | 10♂8 | 22°42 | 29°52 | 15°20 | 25°42 | 15°13 | 9°48 | 2°0 | 27°47 | 2°D54 | 2°18 | 17°2 | 24°25 | T 5 |
| F 6 | 14 52 3 | 14°41'41 | 22°31 | 24°21 | 1♂6 | 16°4 | 25°54 | 15°20 | 9°50 | 2°3 | 27°47 | 2°54 | 2°15 | 17°8 | 24°24 | F 6 |
| S 7 | 14 55 59 | 15°39'55 | 5♂15 | 26°2 | 2°20 | 16°48 | 26°6 | 15°27 | 9°52 | 2°5 | 27°47 | 2°R54 | 2°12 | 17°15 | 24°24 | S 7 |
| S 8 | 14 59 56 | 16°38'07 | 18°24 | 27°45 | 3°33 | 17°32 | 26°18 | 15°34 | 9°55 | 2°7 | 27°47 | 2°53 | 2°9 | 17°22 | 24°24 | S 8 |
| M 9 | 15 3 52 | 17°36'18 | 2♂1 | 29°30 | 4°47 | 18°16 | 26°30 | 15°40 | 9°57 | 2°9 | 27°47 | 2°50 | 2°6 | 17°28 | 24°23 | M 9 |
| T 10 | 15 7 49 | 18°34'27 | 16°7 | 1♂16 | 6°1 | 19°0 | 26°42 | 15°47 | 10°0 | 2°12 | 27°D47 | 2°45 | 2°3 | 17°35 | 24°23 | T 10 |
| W11 | 15 11 45 | 19°32'34 | 0♂41 | 3°5 | 7°15 | 19°44 | 26°54 | 15°54 | 10°3 | 2°14 | 27°47 | 2°37 | 1°59 | 17°42 | 24°22 | W11 |
| T 12 | 15 15 42 | 20°30'40 | 15°36 | 4°55 | 8°29 | 20°28 | 27°6 | 16°0 | 10°5 | 2°16 | 27°47 | 2°27 | 1°56 | 17°49 | 24°21 | T 12 |
| F 13 | 15 19 38 | 21°28'45 | 0♂44 | 6°47 | 9°42 | 21°11 | 27°19 | 16°7 | 10°8 | 2°18 | 27°47 | 2°16 | 1°53 | 17°55 | 24°20 | F 13 |
| S 14 | 15 23 35 | 22°26'48 | 15°55 | 8°41 | 10°56 | 21°55 | 27°31 | 16°14 | 10°10 | 2°20 | 27°47 | 2°6 | 1°50 | 18°2 | 24°20 | S 14 |
| S 15 | 15 27 32 | 23°24'49 | 0♂58 | 10°37 | 12°10 | 22°39 | 27°44 | 16°20 | 10°13 | 2°22 | 27°47 | 1°57 | 1°47 | 18°9 | 24°19 | S 15 |
| M16 | 15 31 28 | 24°22'49 | 15°45 | 12°35 | 13°24 | 23°22 | 27°56 | 16°27 | 10°16 | 2°25 | 27°47 | 1°50 | 1°43 | 18°15 | 24°17 | M16 |
| T 17 | 15 35 25 | 25°20'47 | 0♂9 | 14°34 | 14°37 | 24°6 | 28°9 | 16°33 | 10°19 | 2°27 | 27°47 | 1°47 | 1°40 | 18°22 | 24°16 | T 17 |
| W18 | 15 39 21 | 26°18'42 | 14°9 | 16°36 | 15°51 | 24°49 | 28°21 | 16°39 | 10°21 | 2°29 | 27°48 | 1°45 | 1°37 | 18°29 | 24°15 | W18 |
| T 19 | 15 43 18 | 27°16'36 | 27°44 | 18°38 | 17°5 | 25°32 | 28°34 | 16°46 | 10°24 | 2°31 | 27°48 | 1°45 | 1°34 | 18°36 | 24°14 | T 19 |
| F 20 | 15 47 14 | 28°14'29 | 10♂56 | 20°43 | 18°18 | 26°16 | 28°47 | 16°52 | 10°27 | 2°33 | 27°48 | 1°45 | 1°31 | 18°42 | 24°12 | F 20 |
| S 21 | 15 51 11 | 29°12'19 | 23°50 | 22°49 | 19°32 | 26°59 | 28°59 | 16°58 | 10°30 | 2°35 | 27°48 | 1°43 | 1°28 | 18°49 | 24°11 | S 21 |
| S 22 | 15 55 8 | 0♂10'08 | 6♂27 | 24°56 | 20°46 | 27°42 | 29°12 | 17°5 | 10°33 | 2°37 | 27°49 | 1°40 | 1°24 | 18°56 | 24°10 | S 22 |
| M23 | 15 59 4 | 1°7'55 | 18°52 | 27°5 | 21°59 | 28°25 | 29°25 | 17°11 | 10°36 | 2°39 | 27°49 | 1°34 | 1°21 | 19°2 | 24°8 | M23 |
| T 24 | 16 3 1 | 2°5'40 | 1♂8 | 29°15 | 23°13 | 29°9 | 29°38 | 17°17 | 10°39 | 2°41 | 27°49 | 1°25 | 1°18 | 19°9 | 24°6 | T 24 |
| W25 | 16 6 57 | 3°3'24 | 13°15 | 1♂25 | 24°27 | 29°52 | 29°51 | 17°23 | 10°42 | 2°43 | 27°50 | 1°14 | 1°15 | 19°16 | 24°5 | W25 |
| T 26 | 16 10 54 | 4°1'07 | 25°17 | 3°37 | 25°41 | 0♂35 | 0♂4 | 17°29 | 10°45 | 2°45 | 27°50 | 1°1 | 1°12 | 19°23 | 24°3 | T 26 |
| F 27 | 16 14 50 | 4°58'48 | 7♂14 | 5°48 | 26°54 | 1°18 | 0°17 | 17°35 | 10°48 | 2°47 | 27°51 | 0°47 | 1°8 | 19°29 | 24°1 | F 27 |
| S 28 | 16 18 47 | 5°56'28 | 19°7 | 8°0 | 28°8 | 2°0 | 0°30 | 17°41 | 10°51 | 2°49 | 27°51 | 0°33 | 1°5 | 19°36 | 23°59 | S 28 |
| S 29 | 16 22 43 | 6°54'07 | 0♂59 | 10°12 | 29°22 | 2°43 | 0°43 | 17°46 | 10°54 | 2°51 | 27°52 | 0°21 | 1°2 | 19°43 | 23°57 | S 29 |
| M30 | 16 26 40 | 7°51'45 | 12°51 | 12°23 | 0♂35 | 3°26 | 0°56 | 17°52 | 10°57 | 2°53 | 27°52 | 0°11 | 0°59 | 19°49 | 23°55 | M30 |
| T 31 | 16 30 37 | 8♂49'21 | 24♂45 | 14♂33 | 1♂49 | 4♂9 | 1♂9 | 17°58 | 11♂1 | 2♂55 | 27♂53 | 0♂4 | 0♂56 | 19♂56 | 23♂53 | T 31 |

| Day | ☉ | ☾ | | ♀ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|-----|---|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|
|-----|---|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|

Julian Day Number = 2525808.5, Delta T = 166.29 sec
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| W 1 | 16 34 33 | 9II46°57 | 6II44 | 16II43 | 3II 3 | 4II52 | 1II23 | 18II 3 | 11II 4 | 2II57 | 27II54 | 0°R 0 | 0II53 | 20II 3 | 23°R51 | W 1 |
| T 2 | 16 38 30 | 10°44'32 | 18°53 | 18°51 | 4°16 | 5°34 | 1°36 | 18° 9 | 11° 7 | 2°59 | 27°54 | 29°Ω58 | 0°49 | 20°10 | 23°Ω48 | T 2 |
| F 3 | 16 42 26 | 11°42'05 | 1II16 | 20°58 | 5°30 | 6°17 | 1°49 | 18°14 | 11°10 | 3° 1 | 27°55 | 29°D58 | 0°46 | 20°16 | 23°46 | F 3 |
| S 4 | 16 46 23 | 12°39'38 | 13°57 | 23° 3 | 6°44 | 6°59 | 2° 3 | 18°20 | 11°14 | 3° 3 | 27°55 | 29°R58 | 0°43 | 20°23 | 23°44 | S 4 |
| S 5 | 16 50 19 | 13°37'10 | 27° 1 | 25° 6 | 7°57 | 7°42 | 2°16 | 18°25 | 11°17 | 3° 4 | 27°56 | 29°57 | 0°40 | 20°30 | 23°41 | S 5 |
| M 6 | 16 54 16 | 14°34'41 | 10II33 | 27° 8 | 9°11 | 8°24 | 2°29 | 18°30 | 11°20 | 3° 6 | 27°57 | 29°55 | 0°37 | 20°36 | 23°39 | M 6 |
| T 7 | 16 58 12 | 15°32'12 | 24°34 | 29° 7 | 10°25 | 9° 7 | 2°43 | 18°36 | 11°23 | 3° 8 | 27°58 | 29°51 | 0°34 | 20°43 | 23°36 | T 7 |
| W 8 | 17 2 9 | 16°29'42 | 9II 3 | 1II 4 | 11°38 | 9°49 | 2°56 | 18°41 | 11°27 | 3°10 | 27°58 | 29°44 | 0°30 | 20°50 | 23°34 | W 8 |
| T 9 | 17 6 6 | 17°27'11 | 23°58 | 2°58 | 12°52 | 10°31 | 3° 9 | 18°46 | 11°30 | 3°11 | 27°59 | 29°35 | 0°27 | 20°57 | 23°31 | T 9 |
| F 10 | 17 10 2 | 18°24'39 | 9II 9 | 4°50 | 14° 6 | 11°14 | 3°23 | 18°51 | 11°34 | 3°13 | 28° 0 | 29°25 | 0°24 | 21° 3 | 23°28 | F 10 |
| S 11 | 17 13 59 | 19°22'07 | 24°28 | 6°40 | 15°20 | 11°56 | 3°36 | 18°56 | 11°37 | 3°15 | 28° 1 | 29°15 | 0°21 | 21°10 | 23°25 | S 11 |
| S 12 | 17 17 55 | 20°19'34 | 9II42 | 8°27 | 16°33 | 12°38 | 3°50 | 19° 1 | 11°40 | 3°17 | 28° 2 | 29° 6 | 0°18 | 21°17 | 23°22 | S 12 |
| M13 | 17 21 52 | 21°16'59 | 24°42 | 10°11 | 17°47 | 13°20 | 4° 3 | 19° 6 | 11°44 | 3°18 | 28° 3 | 29° 0 | 0°14 | 21°23 | 23°20 | M13 |
| T 14 | 17 25 48 | 22°14'24 | 9II18 | 11°53 | 19° 1 | 14° 2 | 4°17 | 19°10 | 11°47 | 3°20 | 28° 4 | 28°57 | 0°11 | 21°30 | 23°17 | T 14 |
| W15 | 17 29 45 | 23°11'47 | 23°28 | 13°33 | 20°14 | 14°44 | 4°31 | 19°15 | 11°51 | 3°22 | 28° 5 | 28°D55 | 0° 8 | 21°37 | 23°14 | W15 |
| T 16 | 17 33 41 | 24° 9'10 | 7II11 | 15° 9 | 21°28 | 15°26 | 4°44 | 19°20 | 11°54 | 3°23 | 28° 6 | 28°55 | 0° 5 | 21°44 | 23°11 | T 16 |
| F 17 | 17 37 38 | 25° 6'31 | 20°27 | 16°43 | 22°42 | 16° 8 | 4°58 | 19°24 | 11°58 | 3°25 | 28° 7 | 28°R56 | 0° 2 | 21°50 | 23° 7 | F 17 |
| S 18 | 17 41 35 | 26° 3'52 | 3II20 | 18°14 | 23°55 | 16°50 | 5°11 | 19°28 | 12° 1 | 3°26 | 28° 8 | 28°55 | 29°Ω59 | 21°57 | 23° 4 | S 18 |
| S 19 | 17 45 31 | 27° 1'11 | 15°54 | 19°43 | 25° 9 | 17°32 | 5°25 | 19°33 | 12° 5 | 3°28 | 28° 9 | 28°54 | 29°55 | 22° 4 | 23° 1 | S 19 |
| M20 | 17 49 28 | 27°58'30 | 28°13 | 21° 9 | 26°23 | 18°13 | 5°39 | 19°37 | 12° 8 | 3°29 | 28°10 | 28°50 | 29°52 | 22°10 | 22°58 | M20 |
| T 21 | 17 53 24 | 28°55'47 | 10II21 | 22°32 | 27°36 | 18°55 | 5°52 | 19°41 | 12°12 | 3°31 | 28°11 | 28°43 | 29°49 | 22°17 | 22°55 | T 21 |
| W22 | 17 57 21 | 29°53'04 | 22°21 | 23°52 | 28°50 | 19°37 | 6° 6 | 19°45 | 12°15 | 3°32 | 28°12 | 28°35 | 29°46 | 22°24 | 22°51 | W22 |
| T 23 | 18 1 17 | 0II50'21 | 4II17 | 25° 9 | 0II 4 | 20°18 | 6°19 | 19°49 | 12°19 | 3°34 | 28°13 | 28°25 | 29°43 | 22°31 | 22°48 | T 23 |
| F 24 | 18 5 14 | 1°47'36 | 16° 9 | 26°24 | 1°18 | 21° 0 | 6°33 | 19°53 | 12°22 | 3°35 | 28°15 | 28°14 | 29°40 | 22°37 | 22°45 | F 24 |
| S 25 | 18 9 10 | 2°44'51 | 28° 1 | 27°35 | 2°31 | 21°41 | 6°47 | 19°57 | 12°26 | 3°36 | 28°16 | 28° 4 | 29°36 | 22°44 | 22°41 | S 25 |
| S 26 | 18 13 7 | 3°42'06 | 9II54 | 28°44 | 3°45 | 22°23 | 7° 0 | 20° 1 | 12°30 | 3°38 | 28°17 | 27°55 | 29°33 | 22°51 | 22°38 | S 26 |
| M27 | 18 17 4 | 4°39'20 | 21°49 | 29°49 | 4°59 | 23° 4 | 7°14 | 20° 5 | 12°33 | 3°39 | 28°18 | 27°47 | 29°30 | 22°57 | 22°34 | M27 |
| T 28 | 18 21 0 | 5°36'34 | 3II49 | 0II51 | 6°12 | 23°46 | 7°28 | 20° 8 | 12°37 | 3°40 | 28°20 | 27°42 | 29°27 | 23° 4 | 22°31 | T 28 |
| W29 | 18 24 57 | 6°33'48 | 15°55 | 1°50 | 7°26 | 24°27 | 7°42 | 20°12 | 12°40 | 3°42 | 28°21 | 27°40 | 29°24 | 23°11 | 22°27 | W29 |
| T 30 | 18 28 53 | 7II31'02 | 28II10 | 2II46 | 8II40 | 25II 8 | 7II55 | 20°II15 | 12II44 | 3II43 | 28°II22 | 27°D39 | 29°II20 | 23°II18 | 22°II24 | T 30 |

| Day | ☉ | ☾ | | ♂ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| W 1 | 21n53 | 16s38 | 2n 0 | 24n 1 | 1n17 | 20n 9 | 0s36 | 21n17 | 0n12 | 23n16 | 0s 8 | 4n58 | 2s17 | 23n18 | 0n21 | 10n55 | 1s40 | 21n52 | 10n20 | 11n27 | 11n 9 | 18s11 | 14s 8 | 7n17 | |
| T 2 | 22 2 | 14 13 | 0 58 | 24 21 | 1 25 | 20 25 | 0 34 | 21 25 | 0 13 | 23 16 | 0 8 | 5 0 | 2 17 | 23 17 | 0 21 | 10 55 | 1 40 | 21 51 | 10 20 | 11 28 | 11 10 | 18 12 | 14 8 | 7 18 | |
| F 3 | 22 10 | 11 7 | 0s 7 | 24 38 | 1 32 | 20 41 | 0 32 | 21 33 | 0 13 | 23 16 | 0 8 | 5 2 | 2 17 | 23 17 | 0 21 | 10 56 | 1 40 | 21 51 | 10 19 | 11 28 | 11 11 | 18 13 | 14 8 | 7 18 | |
| S 4 | 22 17 | 7 26 | 1 13 | 24 52 | 1 39 | 20 55 | 0 29 | 21 41 | 0 14 | 23 16 | 0 8 | 5 3 | 2 17 | 23 17 | 0 21 | 10 57 | 1 40 | 21 50 | 10 19 | 11 28 | 11 12 | 18 14 | 14 7 | 7 19 | |
| S 5 | 22 24 | 3 18 | 2 18 | 25 4 | 1 44 | 21 10 | 0 27 | 21 48 | 0 14 | 23 16 | 0 8 | 5 5 | 2 18 | 23 17 | 0 21 | 10 57 | 1 40 | 21 50 | 10 19 | 11 28 | 11 13 | 18 14 | 14 7 | 7 19 | |
| M 6 | 22 31 | 1n 9 | 3 18 | 25 12 | 1 50 | 21 24 | 0 25 | 21 56 | 0 15 | 23 16 | 0 8 | 5 7 | 2 18 | 23 16 | 0 21 | 10 58 | 1 40 | 21 49 | 10 19 | 11 29 | 11 15 | 18 15 | 14 7 | 7 19 | |
| T 7 | 22 38 | 5 40 | 4 7 | 25 19 | 1 54 | 21 37 | 0 23 | 22 3 | 0 16 | 23 16 | 0 7 | 5 9 | 2 18 | 23 16 | 0 21 | 10 58 | 1 40 | 21 49 | 10 19 | 11 31 | 11 16 | 18 16 | 14 7 | 7 20 | |
| W 8 | 22 44 | 10 2 | 4 43 | 25 22 | 1 58 | 21 49 | 0 20 | 22 10 | 0 16 | 23 15 | 0 7 | 5 11 | 2 18 | 23 16 | 0 21 | 10 59 | 1 40 | 21 48 | 10 18 | 11 33 | 11 17 | 18 17 | 14 7 | 7 20 | |
| T 9 | 22 49 | 13 53 | 5 1 | 25 23 | 2 1 | 22 1 | 0 18 | 22 17 | 0 17 | 23 15 | 0 7 | 5 12 | 2 18 | 23 15 | 0 21 | 10 59 | 1 40 | 21 48 | 10 18 | 11 36 | 11 18 | 18 17 | 14 7 | 7 21 | |
| F 10 | 22 54 | 16 53 | 4 58 | 25 22 | 2 3 | 22 12 | 0 15 | 22 23 | 0 18 | 23 15 | 0 7 | 5 14 | 2 19 | 23 15 | 0 21 | 11 0 | 1 40 | 21 47 | 10 18 | 11 40 | 11 19 | 18 18 | 14 7 | 7 21 | |
| S 11 | 22 59 | 18 44 | 4 34 | 25 19 | 2 4 | 22 23 | 0 13 | 22 30 | 0 18 | 23 15 | 0 7 | 5 16 | 2 19 | 23 15 | 0 21 | 11 1 | 1 40 | 21 47 | 10 18 | 11 43 | 11 20 | 18 19 | 14 8 | 7 21 | |
| S 12 | 23 3 | 19 14 | 3 50 | 25 13 | 2 5 | 22 33 | 0 11 | 22 36 | 0 19 | 23 14 | 0 7 | 5 17 | 2 19 | 23 14 | 0 21 | 11 1 | 1 40 | 21 46 | 10 18 | 11 46 | 11 21 | 18 20 | 14 8 | 7 22 | |
| M13 | 23 7 | 18 21 | 2 51 | 25 6 | 2 5 | 22 43 | 0 8 | 22 42 | 0 19 | 23 14 | 0 7 | 5 19 | 2 19 | 23 14 | 0 21 | 11 2 | 1 40 | 21 46 | 10 17 | 11 48 | 11 22 | 18 20 | 14 8 | 7 22 | |
| T 14 | 23 11 | 16 15 | 1 42 | 24 56 | 2 4 | 22 51 | 0 6 | 22 47 | 0 20 | 23 14 | 0 7 | 5 21 | 2 20 | 23 14 | 0 21 | 11 2 | 1 40 | 21 45 | 10 17 | 11 50 | 11 24 | 18 21 | 14 8 | 7 23 | |
| W15 | 23 14 | 13 13 | 0 29 | 24 45 | 2 2 | 23 0 | 0 4 | 22 53 | 0 21 | 23 13 | 0 7 | 5 22 | 2 20 | 23 14 | 0 21 | 11 3 | 1 41 | 21 45 | 10 17 | 11 50 | 11 25 | 18 22 | 14 8 | 7 23 | |
| T 16 | 23 17 | 9 33 | 0n44 | 24 32 | 2 0 | 23 7 | 0 1 | 22 58 | 0 21 | 23 13 | 0 7 | 5 24 | 2 20 | 23 13 | 0 21 | 11 3 | 1 41 | 21 44 | 10 17 | 11 50 | 11 26 | 18 23 | 14 8 | 7 23 | |
| F 17 | 23 19 | 5 30 | 1 52 | 24 18 | 1 57 | 23 14 | 0n 1 | 23 3 | 0 22 | 23 13 | 0 6 | 5 25 | 2 20 | 23 13 | 0 21 | 11 4 | 1 41 | 21 44 | 10 17 | 11 50 | 11 27 | 18 23 | 14 8 | 7 24 | |
| S 18 | 23 21 | 1 19 | 2 53 | 24 2 | 1 53 | 23 20 | 0 4 | 23 8 | 0 22 | 23 12 | 0 6 | 5 27 | 2 20 | 23 13 | 0 21 | 11 4 | 1 41 | 21 43 | 10 16 | 11 50 | 11 28 | 18 24 | 14 8 | 7 24 | |
| S 19 | 23 23 | 2s49 | 3 43 | 23 45 | 1 48 | 23 25 | 0 6 | 23 12 | 0 23 | 23 12 | 0 6 | 5 28 | 2 21 | 23 12 | 0 21 | 11 5 | 1 41 | 21 43 | 10 16 | 11 51 | 11 29 | 18 25 | 14 9 | 7 24 | |
| M20 | 23 24 | 6 44 | 4 22 | 23 27 | 1 43 | 23 30 | 0 8 | 23 17 | 0 24 | 23 11 | 0 6 | 5 29 | 2 21 | 23 12 | 0 21 | 11 5 | 1 41 | 21 42 | 10 16 | 11 52 | 11 30 | 18 26 | 14 9 | 7 25 | |
| T 21 | 23 24 | 10 20 | 4 49 | 23 8 | 1 37 | 23 34 | 0 11 | 23 21 | 0 24 | 23 11 | 0 6 | 5 31 | 2 21 | 23 12 | 0 21 | 11 5 | 1 41 | 21 42 | 10 16 | 11 54 | 11 31 | 18 26 | 14 9 | 7 25 | |
| W22 | 23 25 | 13 28 | 5 2 | 22 48 | 1 31 | 23 37 | 0 13 | 23 25 | 0 25 | 23 10 | 0 6 | 5 32 | 2 21 | 23 11 | 0 21 | 11 6 | 1 41 | 21 41 | 10 16 | 11 57 | 11 32 | 18 27 | 14 9 | 7 25 | |
| T 23 | 23 24 | 16 1 | 5 3 | 22 27 | 1 23 | 23 40 | 0 15 | 23 29 | 0 25 | 23 10 | 0 6 | 5 33 | 2 22 | 23 11 | 0 21 | 11 6 | 1 41 | 21 40 | 10 15 | 12 1 | 11 34 | 18 28 | 14 10 | 7 25 | |
| F 24 | 23 24 | 17 53 | 4 50 | 22 5 | 1 15 | 23 42 | 0 18 | 23 32 | 0 26 | 23 9 | 0 6 | 5 35 | 2 22 | 23 11 | 0 21 | 11 7 | 1 41 | 21 40 | 10 15 | 12 4 | 11 35 | 18 28 | 14 10 | 7 26 | |
| S 25 | 23 23 | 18 59 | 4 24 | 21 43 | 1 7 | 23 43 | 0 20 | 23 35 | 0 27 | 23 9 | 0 6 | 5 36 | 2 22 | 23 10 | 0 21 | 11 7 | 1 41 | 21 39 | 10 15 | 12 8 | 11 36 | 18 29 | 14 10 | 7 26 | |
| S 26 | 23 22 | 19 16 | 3 47 | 21 20 | 0 58 | 23 44 | 0 22 | 23 39 | 0 27 | 23 8 | 0 6 | 5 37 | 2 22 | 23 10 | 0 21 | 11 8 | 1 41 | 21 39 | 10 15 | 12 11 | 11 37 | 18 30 | 14 10 | 7 26 | |
| M27 | 23 20 | 18 41 | 3 0 | 20 57 | 0 48 | 23 44 | 0 25 | 23 41 | 0 28 | 23 7 | 0 5 | 5 38 | 2 23 | 23 10 | 0 21 | 11 8 | 1 41 | 21 38 | 10 15 | 12 14 | 11 38 | 18 30 | 14 11 | 7 26 | |
| T 28 | 23 18 | 17 15 | 2 5 | 20 33 | 0 38 | 23 43 | 0 27 | 23 44 | 0 28 | 23 7 | 0 5 | 5 39 | 2 23 | 23 9 | 0 21 | 11 8 | 1 41 | 21 37 | 10 15 | 12 15 | 11 39 | 18 31 | 14 11 | 7 27 | |
| W29 | 23 15 | 15 3 | 1 3 | 20 10 | 0 27 | 23 41 | 0 29 | 23 46 | 0 29 | 23 6 | 0 5 | 5 40 | 2 23 | 23 9 | 0 21 | 11 9 | 1 41 | 21 37 | 10 14 | 12 16 | 11 40 | 18 32 | 14 11 | 7 27 | |
| T 30 | 23n12 | 12s 9 | 0s 3 | 19n46 | 0n15 | 23n39 | 0n31 | 23n49 | 0n29 | 23n 5 | 0s 5 | 5n41 | 2s23 | 23n 9 | 0n21 | 11n 9 | 1s41 | 21n36 | 10n14 | 12n17 | 11n41 | 18s33 | 14s12 | 7n27 | |

ASTRODIENST EPHEMERIS for the year 2203

geocentric

AUGUST 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|---------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|--------|------|
| M 1 | 20 35 3 | 8♌ 2°56 | 0♋ 0 | 29°R36 | 18♌ 2 | 16♌43 | 15♌ 6 | 21°Y14 | 14♌38 | 4♌ 6 | 29♌14 | 26♌46 | 27♌39 | 26♌52 | 20°R27 | M 1 |
| T 2 | 20 39 0 | 9° 0'18 | 13°49 | 29♌11 | 19°16 | 17°23 | 15°19 | 21°14 | 14°41 | 4° 7 | 29°15 | 26°R46 | 27°36 | 26°59 | 20°R24 | T 2 |
| W 3 | 20 42 56 | 9°57'40 | 27°57 | 28°50 | 20°29 | 18° 3 | 15°32 | 21°R15 | 14°45 | 4° 7 | 29°17 | 26°46 | 27°32 | 27° 6 | 20°20 | W 3 |
| T 4 | 20 46 53 | 10°55'04 | 12°II23 | 28°34 | 21°43 | 18°42 | 15°45 | 21°15 | 14°48 | 4° 7 | 29°19 | 26°44 | 27°29 | 27°12 | 20°17 | T 4 |
| F 5 | 20 50 49 | 11°52'28 | 27° 3 | 28°24 | 22°57 | 19°22 | 15°58 | 21°14 | 14°51 | 4° 7 | 29°21 | 26°43 | 27°26 | 27°19 | 20°13 | F 5 |
| S 6 | 20 54 46 | 12°49'54 | 11♌52 | 28°D19 | 24°11 | 20° 1 | 16°11 | 21°14 | 14°55 | 4° 7 | 29°23 | 26°41 | 27°23 | 27°26 | 20°10 | S 6 |
| S 7 | 20 58 42 | 13°47'21 | 26°42 | 28°21 | 25°25 | 20°41 | 16°24 | 21°14 | 14°58 | 4° 7 | 29°25 | 26°40 | 27°20 | 27°33 | 20° 7 | S 7 |
| M 8 | 21 2 39 | 14°44'49 | 11♌26 | 28°30 | 26°39 | 21°20 | 16°37 | 21°14 | 15° 1 | 4°R 7 | 29°27 | 26°39 | 27°17 | 27°39 | 20° 4 | M 8 |
| T 9 | 21 6 35 | 15°42'17 | 25°58 | 28°45 | 27°53 | 22° 0 | 16°49 | 21°13 | 15° 5 | 4° 7 | 29°29 | 26°D38 | 27°13 | 27°46 | 20° 1 | T 9 |
| W10 | 21 10 32 | 16°39'47 | 10♌10 | 29° 6 | 29° 7 | 22°39 | 17° 2 | 21°12 | 15° 8 | 4° 7 | 29°30 | 26°39 | 27°10 | 27°53 | 19°57 | W10 |
| T 11 | 21 14 29 | 17°37'17 | 24° 0 | 29°34 | 0♌21 | 23°19 | 17°15 | 21°12 | 15°11 | 4° 7 | 29°32 | 26°39 | 27° 7 | 27°59 | 19°54 | T 11 |
| F 12 | 21 18 25 | 18°34'48 | 7♌25 | 0♌ 9 | 1°34 | 23°58 | 17°27 | 21°11 | 15°14 | 4° 7 | 29°34 | 26°40 | 27° 4 | 28° 6 | 19°51 | F 12 |
| S 13 | 21 22 22 | 19°32'20 | 20°27 | 0°50 | 2°48 | 24°37 | 17°40 | 21°10 | 15°17 | 4° 7 | 29°36 | 26°41 | 27° 1 | 28°13 | 19°48 | S 13 |
| S 14 | 21 26 18 | 20°29'52 | 3♌ 7 | 1°38 | 4° 2 | 25°16 | 17°52 | 21° 9 | 15°20 | 4° 7 | 29°38 | 26°41 | 26°58 | 28°19 | 19°45 | S 14 |
| M15 | 21 30 15 | 21°27'26 | 15°28 | 2°32 | 5°16 | 25°56 | 18° 5 | 21° 8 | 15°24 | 4° 6 | 29°40 | 26°41 | 26°54 | 28°26 | 19°42 | M15 |
| T 16 | 21 34 11 | 22°25'00 | 27°36 | 3°32 | 6°30 | 26°35 | 18°17 | 21° 6 | 15°27 | 4° 6 | 29°42 | 26°R41 | 26°51 | 28°33 | 19°40 | T 16 |
| W17 | 21 38 8 | 23°22'36 | 9♌34 | 4°38 | 7°44 | 27°14 | 18°29 | 21° 5 | 15°30 | 4° 6 | 29°44 | 26°41 | 26°48 | 28°40 | 19°37 | W17 |
| T 18 | 21 42 4 | 24°20'12 | 21°27 | 5°51 | 8°58 | 27°53 | 18°42 | 21° 4 | 15°33 | 4° 6 | 29°46 | 26°41 | 26°45 | 28°46 | 19°34 | T 18 |
| F 19 | 21 46 1 | 25°17'49 | 3♌19 | 7° 9 | 10°12 | 28°32 | 18°54 | 21° 2 | 15°36 | 4° 5 | 29°48 | 26°41 | 26°42 | 28°53 | 19°31 | F 19 |
| S 20 | 21 49 58 | 26°15'28 | 15°14 | 8°32 | 11°26 | 29°11 | 19° 6 | 21° 1 | 15°39 | 4° 5 | 29°50 | 26°D41 | 26°38 | 29° 0 | 19°29 | S 20 |
| S 21 | 21 53 54 | 27°13'07 | 27°15 | 10° 0 | 12°39 | 29°50 | 19°18 | 20°59 | 15°42 | 4° 4 | 29°52 | 26°41 | 26°35 | 29° 6 | 19°26 | S 21 |
| M22 | 21 57 51 | 28°10'47 | 9♌25 | 11°33 | 13°53 | 0♌28 | 19°30 | 20°57 | 15°44 | 4° 4 | 29°54 | 26°41 | 26°32 | 29°13 | 19°24 | M22 |
| T 23 | 22 1 47 | 29° 8'29 | 21°47 | 13°11 | 15° 7 | 1° 7 | 19°42 | 20°55 | 15°47 | 4° 4 | 29°55 | 26°R41 | 26°29 | 29°20 | 19°21 | T 23 |
| W24 | 22 5 44 | 0♌ 6'12 | 4♌21 | 14°52 | 16°21 | 1°46 | 19°54 | 20°53 | 15°50 | 4° 3 | 29°57 | 26°41 | 26°26 | 29°26 | 19°19 | W24 |
| T 25 | 22 9 40 | 1° 3'56 | 17° 9 | 16°37 | 17°35 | 2°25 | 20° 6 | 20°51 | 15°53 | 4° 3 | 29°59 | 26°41 | 26°23 | 29°33 | 19°16 | T 25 |
| F 26 | 22 13 37 | 2° 1'42 | 0♌11 | 18°25 | 18°49 | 3° 3 | 20°17 | 20°49 | 15°56 | 4° 2 | 0♌ 1 | 26°40 | 26°19 | 29°40 | 19°14 | F 26 |
| S 27 | 22 17 33 | 2°59'29 | 13°27 | 20°16 | 20° 3 | 3°42 | 20°29 | 20°46 | 15°58 | 4° 1 | 0° 3 | 26°39 | 26°16 | 29°47 | 19°12 | S 27 |
| S 28 | 22 21 30 | 3°57'18 | 26°56 | 22° 9 | 21°16 | 4°21 | 20°41 | 20°44 | 16° 1 | 4° 1 | 0° 5 | 26°39 | 26°13 | 29°53 | 19°10 | S 28 |
| M29 | 22 25 27 | 4°55'08 | 10♌38 | 24° 4 | 22°30 | 4°59 | 20°52 | 20°42 | 16° 4 | 4° 0 | 0° 7 | 26°38 | 26°10 | 29°59 | 19° 8 | M29 |
| T 30 | 22 29 23 | 5°53'01 | 24°32 | 26° 0 | 23°44 | 5°38 | 21° 4 | 20°39 | 16° 7 | 3°59 | 0° 9 | 26°37 | 26° 7 | 0♌ 7 | 19° 6 | T 30 |
| W31 | 22 33 20 | 6♌50'55 | 8♌37 | 27♌58 | 24♌58 | 6♌16 | 21♌15 | 20°Y36 | 16♌ 9 | 3♌59 | 0♌11 | 26°D37 | 26♌ 3 | 0♌13 | 19♌ 4 | W31 |

| Day | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|-------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | lat |
| M 1 | 18n14 | 7n 3 | 4s42 | 15n41 | 4s37 | 16n43 | 1n23 | 23n 9 | 0n47 | 22n31 | 0s 2 | 5n55 | 2s32 | 22n57 | 0n21 | 11n15 |
| T 2 | 17 59 | 11 4 | 5 8 | 15 55 | 4 28 | 16 21 | 1 24 | 23 4 | 0 48 | 22 30 | 0 2 | 5 55 | 2 32 | 22 57 | 0 21 | 11 15 |
| W 3 | 17 44 | 14 33 | 5 16 | 16 10 | 4 18 | 15 58 | 1 24 | 22 59 | 0 48 | 22 28 | 0 2 | 5 55 | 2 33 | 22 57 | 0 21 | 11 15 |
| T 4 | 17 28 | 17 13 | 5 4 | 16 24 | 4 6 | 15 35 | 1 25 | 22 55 | 0 49 | 22 27 | 0 2 | 5 55 | 2 33 | 22 56 | 0 21 | 11 15 |
| F 5 | 17 12 | 18 50 | 4 33 | 16 39 | 3 53 | 15 12 | 1 26 | 22 50 | 0 49 | 22 26 | 0 2 | 5 54 | 2 33 | 22 56 | 0 21 | 11 15 |
| S 6 | 16 56 | 19 11 | 3 43 | 16 53 | 3 39 | 14 48 | 1 26 | 22 44 | 0 50 | 22 24 | 0 2 | 5 54 | 2 33 | 22 56 | 0 21 | 11 15 |
| S 7 | 16 40 | 18 12 | 2 38 | 17 7 | 3 25 | 14 23 | 1 26 | 22 39 | 0 50 | 22 23 | 0 2 | 5 54 | 2 34 | 22 55 | 0 21 | 11 15 |
| M 8 | 16 23 | 16 0 | 1 23 | 17 20 | 3 10 | 13 59 | 1 27 | 22 33 | 0 51 | 22 21 | 0 1 | 5 53 | 2 34 | 22 55 | 0 21 | 11 15 |
| T 9 | 16 7 | 12 47 | 0 4 | 17 33 | 2 54 | 13 34 | 1 27 | 22 28 | 0 51 | 22 20 | 0 1 | 5 53 | 2 34 | 22 55 | 0 21 | 11 15 |
| W10 | 15 49 | 8 54 | 1n14 | 17 44 | 2 38 | 13 8 | 1 27 | 22 22 | 0 52 | 22 18 | 0 1 | 5 52 | 2 35 | 22 54 | 0 21 | 11 15 |
| T 11 | 15 32 | 4 37 | 2 26 | 17 54 | 2 22 | 12 42 | 1 28 | 22 16 | 0 52 | 22 17 | 0 1 | 5 52 | 2 35 | 22 54 | 0 21 | 11 15 |
| F 12 | 15 14 | 0 14 | 3 27 | 18 3 | 2 5 | 12 16 | 1 28 | 22 9 | 0 53 | 22 15 | 0 1 | 5 51 | 2 35 | 22 54 | 0 21 | 11 15 |
| S 13 | 14 57 | 4s 1 | 4 16 | 18 11 | 1 49 | 11 50 | 1 28 | 22 3 | 0 53 | 22 14 | 0 1 | 5 51 | 2 35 | 22 53 | 0 21 | 11 15 |
| S 14 | 14 38 | 7 58 | 4 51 | 18 16 | 1 32 | 11 23 | 1 28 | 21 56 | 0 54 | 22 12 | 0 1 | 5 50 | 2 36 | 22 53 | 0 21 | 11 15 |
| M15 | 14 20 | 11 29 | 5 11 | 18 20 | 1 16 | 10 56 | 1 28 | 21 49 | 0 54 | 22 11 | 0 1 | 5 49 | 2 36 | 22 53 | 0 21 | 11 14 |
| T 16 | 14 1 | 14 27 | 5 17 | 18 22 | 1 0 | 10 28 | 1 28 | 21 43 | 0 55 | 22 9 | 0 1 | 5 49 | 2 36 | 22 52 | 0 21 | 11 14 |
| W17 | 13 43 | 16 46 | 5 9 | 18 21 | 0 45 | 10 1 | 1 27 | 21 36 | 0 55 | 22 8 | 0 1 | 5 48 | 2 36 | 22 52 | 0 21 | 11 14 |
| T 18 | 13 24 | 18 21 | 4 48 | 18 19 | 0 30 | 9 33 | 1 27 | 21 28 | 0 56 | 22 6 | 0 1 | 5 47 | 2 37 | 22 52 | 0 21 | 11 14 |
| F 19 | 13 4 | 19 7 | 4 15 | 18 13 | 0 15 | 9 4 | 1 27 | 21 21 | 0 56 | 22 4 | 0 0 | 5 46 | 2 37 | 22 51 | 0 21 | 11 14 |
| S 20 | 12 45 | 19 4 | 3 30 | 18 5 | 0 1 | 8 36 | 1 26 | 21 13 | 0 57 | 22 3 | 0 0 | 5 46 | 2 37 | 22 51 | 0 21 | 11 14 |
| S 21 | 12 25 | 18 8 | 2 36 | 17 55 | 0n12 | 8 7 | 1 26 | 21 6 | 0 57 | 22 1 | 0 0 | 5 45 | 2 37 | 22 51 | 0 21 | 11 14 |
| M22 | 12 6 | 16 21 | 1 34 | 17 41 | 0 25 | 7 38 | 1 25 | 20 58 | 0 58 | 22 0 | 0 0 | 5 44 | 2 38 | 22 50 | 0 21 | 11 13 |
| T 23 | 11 46 | 13 48 | 0 27 | 17 25 | 0 36 | 7 9 | 1 25 | 20 50 | 0 58 | 21 58 | 0 0 | 5 43 | 2 38 | 22 50 | 0 22 | 11 13 |
| W24 | 11 25 | 10 34 | 0s42 | 17 6 | 0 47 | 6 40 | 1 24 | 20 42 | 0 59 | 21 56 | 0n 0 | 5 42 | 2 38 | 22 50 | 0 22 | 11 13 |
| T 25 | 11 5 | 6 46 | 1 51 | 16 45 | 0 57 | 6 11 | 1 23 | 20 33 | 0 59 | 21 55 | 0 0 | 5 41 | 2 38 | 22 49 | 0 22 | 11 13 |
| F 26 | 10 44 | 2 37 | 2 55 | 16 20 | 1 6 | 5 41 | 1 22 | 20 25 | 1 0 | 21 53 | 0 0 | 5 40 | 2 39 | 22 49 | 0 22 | 11 12 |
| S 27 | 10 24 | 1n45 | 3 51 | 15 53 | 1 14 | 5 11 | 1 21 | 20 17 | 1 0 | 21 51 | 0 0 | 5 39 | 2 39 | 22 49 | 0 22 | 11 12 |
| S 28 | 10 3 | 6 5 | 4 35 | 15 24 | 1 21 | 4 41 | 1 20 | 20 8 | 1 1 | 21 50 | 0 0 | 5 38 | 2 39 | 22 49 | 0 22 | 11 12 |
| M29 | 9 42 | 10 10 | 5 5 | 14 52 | 1 28 | 4 11 | 1 19 | 19 59 | 1 1 | 21 48 | 0 1 | 5 36 | 2 39 | 22 48 | 0 22 | 11 12 |
| T 30 | 9 21 | 13 46 | 5 17 | 14 17 | 1 33 | 3 41 | 1 18 | 19 50 | 1 2 | 21 47 | 0 1 | 5 35 | 2 40 | 22 48 | 0 22 | 11 11 |
| W31 | 8n59 | 16n37 | 5s10 | 13n41 | 1n37 | 3n11 | 1n17 | 19n41 | 1n 2 | 21n45 | 0n 1 | 5n34 | 2s40 | 22n48 | 0n22 | 11n11 |

Julian Day Number = 2525900.5, Delta T = 166.54 sec
 Ecliptic obliquity = 23°24'38", Nutation = - 0°00'08", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°35'07", Lahiri = 26°42'07"

ASTRODIENST EPHEMERIS for the year 2203
geocentric

SEPTEMBER 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|------|--------|-------|------|--------|------|
| T 1 | 22 37 16 | 7♐48'51 | 22♐51 | 29♏56 | 26♐12 | 6♏55 | 21♐26 | 20°R34 | 16♐12 | 3°R58 | 0♐13 | 26♏37 | 26♏0 | 0♐20 | 19°R 2 | T 1 |
| F 2 | 22 41 13 | 8°46'49 | 7♐11 | 1♐54 | 27°26 | 7°33 | 21°37 | 20°Y31 | 16°14 | 3♐57 | 0°15 | 26°38 | 25°57 | 0°27 | 19°♐ 0 | F 2 |
| S 3 | 22 45 9 | 9°44'48 | 21°35 | 3°53 | 28°40 | 8°12 | 21°49 | 20°28 | 16°17 | 3°56 | 0°17 | 26°39 | 25°54 | 0°33 | 18°58 | S 3 |
| S 4 | 22 49 6 | 10°42'50 | 5♏59 | 5°52 | 29°53 | 8°50 | 22°0 | 20°25 | 16°19 | 3°56 | 0°19 | 26°40 | 25°51 | 0°40 | 18°57 | S 4 |
| M 5 | 22 53 2 | 11°40'53 | 20°19 | 7°50 | 1♐7 | 9°28 | 22°11 | 20°22 | 16°22 | 3°55 | 0°21 | 26°R41 | 25°48 | 0°47 | 18°55 | M 5 |
| T 6 | 22 56 59 | 12°38'58 | 4♐29 | 9°47 | 2°21 | 10°6 | 22°21 | 20°19 | 16°24 | 3°54 | 0°22 | 26°41 | 25°44 | 0°54 | 18°54 | T 6 |
| W 7 | 23 0 56 | 13°37'05 | 18°25 | 11°44 | 3°35 | 10°45 | 22°32 | 20°15 | 16°26 | 3°53 | 0°24 | 26°40 | 25°41 | 1°0 | 18°52 | W 7 |
| T 8 | 23 4 52 | 14°35'13 | 2♐5 | 13°41 | 4°49 | 11°23 | 22°43 | 20°12 | 16°29 | 3°52 | 0°26 | 26°38 | 25°38 | 1°7 | 18°51 | T 8 |
| F 9 | 23 8 49 | 15°33'23 | 15°25 | 15°36 | 6°2 | 12°1 | 22°54 | 20°9 | 16°31 | 3°51 | 0°28 | 26°36 | 25°35 | 1°14 | 18°49 | F 9 |
| S 10 | 23 12 45 | 16°31'34 | 28°25 | 17°31 | 7°16 | 12°39 | 23°4 | 20°5 | 16°33 | 3°50 | 0°30 | 26°33 | 25°32 | 1°20 | 18°48 | S 10 |
| S 11 | 23 16 42 | 17°29'47 | 11♐5 | 19°24 | 8°30 | 13°17 | 23°14 | 20°2 | 16°35 | 3°49 | 0°32 | 26°30 | 25°29 | 1°27 | 18°47 | S 11 |
| M12 | 23 20 38 | 18°28'01 | 23°28 | 21°16 | 9°44 | 13°55 | 23°25 | 19°58 | 16°37 | 3°48 | 0°34 | 26°27 | 25°25 | 1°34 | 18°46 | M12 |
| T 13 | 23 24 35 | 19°26'17 | 5♐37 | 23°8 | 10°58 | 14°33 | 23°35 | 19°54 | 16°40 | 3°47 | 0°36 | 26°25 | 25°22 | 1°40 | 18°45 | T 13 |
| W14 | 23 28 31 | 20°24'35 | 17°35 | 24°58 | 12°11 | 15°11 | 23°45 | 19°51 | 16°42 | 3°46 | 0°38 | 26°D25 | 25°19 | 1°47 | 18°44 | W14 |
| T 15 | 23 32 28 | 21°22'54 | 29°28 | 26°47 | 13°25 | 15°49 | 23°55 | 19°47 | 16°44 | 3°45 | 0°39 | 26°25 | 25°16 | 1°54 | 18°43 | T 15 |
| F 16 | 23 36 24 | 22°21'14 | 11♐20 | 28°35 | 14°39 | 16°27 | 24°5 | 19°43 | 16°46 | 3°43 | 0°41 | 26°26 | 25°13 | 2°0 | 18°42 | F 16 |
| S 17 | 23 40 21 | 23°19'37 | 23°16 | 0♐21 | 15°53 | 17°4 | 24°15 | 19°39 | 16°47 | 3°42 | 0°43 | 26°28 | 25°9 | 2°7 | 18°42 | S 17 |
| S 18 | 23 44 18 | 24°18'00 | 5♐20 | 2°7 | 17°6 | 17°42 | 24°25 | 19°35 | 16°49 | 3°41 | 0°45 | 26°29 | 25°6 | 2°14 | 18°41 | S 18 |
| M19 | 23 48 14 | 25°16'26 | 17°37 | 3°52 | 18°20 | 18°20 | 24°34 | 19°31 | 16°51 | 3°40 | 0°47 | 26°31 | 25°3 | 2°21 | 18°40 | M19 |
| T 20 | 23 52 11 | 26°14'53 | 0♐9 | 5°35 | 19°34 | 18°57 | 24°44 | 19°27 | 16°53 | 3°39 | 0°48 | 26°R31 | 25°0 | 2°27 | 18°40 | T 20 |
| W21 | 23 56 7 | 27°13'21 | 12°59 | 7°18 | 20°48 | 19°35 | 24°53 | 19°23 | 16°55 | 3°37 | 0°50 | 26°30 | 24°57 | 2°34 | 18°40 | W21 |
| T 22 | 0 0 4 | 28°11'52 | 26°7 | 8°59 | 22°1 | 20°13 | 25°2 | 19°19 | 16°56 | 3°36 | 0°52 | 26°27 | 24°54 | 2°41 | 18°39 | T 22 |
| F 23 | 0 4 0 | 29°10'24 | 9♐34 | 10°39 | 23°15 | 20°50 | 25°11 | 19°14 | 16°58 | 3°35 | 0°54 | 26°23 | 24°50 | 2°47 | 18°39 | F 23 |
| S 24 | 0 7 57 | 0♐8'59 | 23°16 | 12°19 | 24°29 | 21°28 | 25°20 | 19°10 | 17°0 | 3°33 | 0°55 | 26°18 | 24°47 | 2°54 | 18°39 | S 24 |
| S 25 | 0 11 53 | 1°7'35 | 7♐11 | 13°57 | 25°42 | 22°5 | 25°29 | 19°6 | 17°1 | 3°32 | 0°57 | 26°13 | 24°44 | 3°1 | 18°D39 | S 25 |
| M26 | 0 15 50 | 2°6'14 | 21°16 | 15°34 | 26°56 | 22°42 | 25°38 | 19°1 | 17°3 | 3°31 | 0°59 | 26°8 | 24°41 | 3°7 | 18°39 | M26 |
| T 27 | 0 19 47 | 3°4'54 | 5♐26 | 17°10 | 28°9 | 23°20 | 25°47 | 18°57 | 17°4 | 3°29 | 1°1 | 26°4 | 24°38 | 3°14 | 18°39 | T 27 |
| W28 | 0 23 43 | 4°3'37 | 19°38 | 18°46 | 29°23 | 23°57 | 25°55 | 18°52 | 17°6 | 3°28 | 1°2 | 26°1 | 24°35 | 3°21 | 18°39 | W28 |
| T 29 | 0 27 40 | 5°2'23 | 3♐50 | 20°20 | 0♐37 | 24°34 | 26°4 | 18°48 | 17°7 | 3°27 | 1°4 | 26°D 0 | 24°31 | 3°27 | 18°39 | T 29 |
| F 30 | 0 31 36 | 6♐1'10 | 17♐59 | 21♐54 | 1♐50 | 25♏12 | 26♐12 | 18°Y43 | 17♐8 | 3♐25 | 1♐6 | 26♏1 | 24♏28 | 3♐34 | 18°♐40 | F 30 |

| Day | ☉ | ☾ | | ♂ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| T 1 | 8n38 | 18n29 | 4s44 | 13n 3 | 1n41 | 2n40 | 1n16 | 19n32 | 1n 2 | 21n43 | 0n 1 | 5n33 | 2s40 | 22n47 | 0n22 | 11n11 | 1s45 | 20n54 | 10n12 | 12n38 | 12n50 | 19s 9 | 14s51 | 7n17 | | | |
| F 2 | 8 16 | 19 12 | 4 1 | 12 24 | 1 43 | 2 10 | 1 15 | 19 22 | 1 3 | 21 42 | 0 1 | 5 32 | 2 40 | 22 47 | 0 22 | 11 10 | 1 45 | 20 54 | 10 12 | 12 37 | 12 51 | 19 10 | 14 51 | 7 17 | | | |
| S 3 | 7 54 | 18 41 | 3 2 | 11 42 | 1 45 | 1 39 | 1 13 | 19 13 | 1 3 | 21 40 | 0 1 | 5 30 | 2 40 | 22 47 | 0 22 | 11 10 | 1 45 | 20 53 | 10 12 | 12 37 | 12 52 | 19 10 | 14 52 | 7 16 | | | |
| S 4 | 7 32 | 16 57 | 1 52 | 11 0 | 1 46 | 1 9 | 1 12 | 19 3 | 1 4 | 21 38 | 0 1 | 5 29 | 2 41 | 22 47 | 0 22 | 11 10 | 1 45 | 20 52 | 10 13 | 12 37 | 12 53 | 19 11 | 14 53 | 7 16 | | | |
| M 5 | 7 10 | 14 9 | 0 35 | 10 16 | 1 46 | 0 38 | 1 11 | 18 54 | 1 4 | 21 37 | 0 1 | 5 28 | 2 41 | 22 46 | 0 22 | 11 9 | 1 45 | 20 52 | 10 13 | 12 36 | 12 54 | 19 11 | 14 53 | 7 15 | | | |
| T 6 | 6 48 | 10 31 | 0n43 | 9 32 | 1 46 | 0 7 | 1 9 | 18 44 | 1 5 | 21 35 | 0 1 | 5 26 | 2 41 | 22 46 | 0 22 | 11 9 | 1 45 | 20 51 | 10 13 | 12 36 | 12 55 | 19 12 | 14 54 | 7 15 | | | |
| W 7 | 6 26 | 6 22 | 1 57 | 8 46 | 1 45 | 0s23 | 1 7 | 18 34 | 1 5 | 21 33 | 0 2 | 5 25 | 2 41 | 22 46 | 0 22 | 11 9 | 1 45 | 20 51 | 10 13 | 12 37 | 12 57 | 19 12 | 14 55 | 7 15 | | | |
| T 8 | 6 4 | 1 59 | 3 3 | 8 0 | 1 43 | 0 54 | 1 6 | 18 24 | 1 6 | 21 32 | 0 2 | 5 24 | 2 41 | 22 45 | 0 22 | 11 8 | 1 45 | 20 50 | 10 13 | 12 37 | 12 58 | 19 13 | 14 55 | 7 14 | | | |
| F 9 | 5 41 | 2s25 | 3 57 | 7 13 | 1 41 | 1 25 | 1 4 | 18 14 | 1 6 | 21 30 | 0 2 | 5 22 | 2 42 | 22 45 | 0 22 | 11 8 | 1 45 | 20 50 | 10 13 | 12 38 | 12 59 | 19 13 | 14 56 | 7 14 | | | |
| S 10 | 5 19 | 6 34 | 4 38 | 6 26 | 1 38 | 1 56 | 1 2 | 18 3 | 1 7 | 21 28 | 0 2 | 5 21 | 2 42 | 22 45 | 0 22 | 11 8 | 1 45 | 20 49 | 10 13 | 12 39 | 13 0 | 19 14 | 14 57 | 7 13 | | | |
| S 11 | 4 56 | 10 19 | 5 3 | 5 39 | 1 35 | 2 26 | 1 0 | 17 53 | 1 7 | 21 27 | 0 2 | 5 19 | 2 42 | 22 45 | 0 22 | 11 7 | 1 45 | 20 49 | 10 14 | 12 40 | 13 1 | 19 14 | 14 57 | 7 13 | | | |
| M12 | 4 33 | 13 33 | 5 14 | 4 51 | 1 31 | 2 57 | 0 59 | 17 43 | 1 8 | 21 25 | 0 2 | 5 18 | 2 42 | 22 44 | 0 22 | 11 7 | 1 45 | 20 48 | 10 14 | 12 41 | 13 2 | 19 15 | 14 58 | 7 12 | | | |
| T 13 | 4 11 | 16 7 | 5 11 | 4 4 | 1 27 | 3 28 | 0 57 | 17 32 | 1 8 | 21 23 | 0 2 | 5 16 | 2 42 | 22 44 | 0 22 | 11 6 | 1 45 | 20 47 | 10 14 | 12 42 | 13 3 | 19 15 | 14 58 | 7 12 | | | |
| W14 | 3 48 | 17 58 | 4 54 | 3 16 | 1 23 | 3 58 | 0 55 | 17 21 | 1 9 | 21 22 | 0 2 | 5 15 | 2 43 | 22 44 | 0 22 | 11 6 | 1 46 | 20 47 | 10 14 | 12 42 | 13 4 | 19 15 | 14 59 | 7 11 | | | |
| T 15 | 3 25 | 19 1 | 4 24 | 2 28 | 1 18 | 4 29 | 0 53 | 17 10 | 1 9 | 21 20 | 0 2 | 5 13 | 2 43 | 22 44 | 0 22 | 11 6 | 1 46 | 20 46 | 10 14 | 12 42 | 13 5 | 19 16 | 15 0 | 7 11 | | | |
| F 16 | 3 2 | 19 13 | 3 43 | 1 41 | 1 13 | 4 59 | 0 51 | 17 0 | 1 9 | 21 19 | 0 2 | 5 11 | 2 43 | 22 44 | 0 22 | 11 5 | 1 46 | 20 46 | 10 14 | 12 41 | 13 6 | 19 16 | 15 0 | 7 10 | | | |
| S 17 | 2 39 | 18 34 | 2 53 | 0 53 | 1 7 | 5 30 | 0 48 | 16 49 | 1 10 | 21 17 | 0 3 | 5 10 | 2 43 | 22 43 | 0 22 | 11 5 | 1 46 | 20 45 | 10 15 | 12 41 | 13 7 | 19 17 | 15 1 | 7 9 | | | |
| S 18 | 2 16 | 17 5 | 1 54 | 0 6 | 1 2 | 6 0 | 0 46 | 16 38 | 1 10 | 21 15 | 0 3 | 5 8 | 2 43 | 22 43 | 0 22 | 11 4 | 1 46 | 20 45 | 10 15 | 12 40 | 13 8 | 19 17 | 15 2 | 7 9 | | | |
| M19 | 1 53 | 14 46 | 0 49 | 0s41 | 0 56 | 6 30 | 0 44 | 16 26 | 1 11 | 21 14 | 0 3 | 5 6 | 2 43 | 22 43 | 0 22 | 11 4 | 1 46 | 20 44 | 10 15 | 12 40 | 13 9 | 19 18 | 15 2 | 7 8 | | | |
| T 20 | 1 29 | 11 43 | 0s20 | 1 28 | 0 49 | 7 0 | 0 42 | 16 15 | 1 11 | 21 12 | 0 3 | 5 5 | 2 43 | 22 43 | 0 22 | 11 3 | 1 46 | 20 44 | 10 15 | 12 40 | 13 10 | 19 18 | 15 3 | 7 8 | | | |
| W21 | 1 6 | 8 3 | 1 29 | 2 14 | 0 43 | 7 30 | 0 39 | 16 4 | 1 12 | 21 11 | 0 3 | 5 3 | 2 44 | 22 43 | 0 22 | 11 3 | 1 46 | 20 44 | 10 15 | 12 40 | 13 11 | 19 18 | 15 3 | 7 7 | | | |
| T 22 | 0 43 | 3 55 | 2 35 | 3 0 | 0 37 | 8 0 | 0 37 | 15 52 | 1 12 | 21 9 | 0 3 | 5 1 | 2 44 | 22 42 | 0 22 | 11 3 | 1 46 | 20 43 | 10 15 | 12 41 | 13 13 | 19 19 | 15 4 | 7 7 | | | |
| F 23 | 0 20 | 0n31 | 3 34 | 3 45 | 0 30 | 8 29 | 0 35 | 15 41 | 1 13 | 21 8 | 0 3 | 5 0 | 2 44 | 22 42 | 0 22 | 11 2 | 1 46 | 20 43 | 10 16 | 12 42 | 13 14 | 19 19 | 15 4 | 7 6 | | | |
| S 24 | 0s 4 | 4 59 | 4 21 | 4 30 | 0 23 | 8 59 | 0 32 | 15 29 | 1 13 | 21 6 | 0 3 | 4 58 | 2 44 | 22 42 | 0 22 | 11 2 | 1 46 | 20 42 | 10 16 | 12 44 | 13 15 | 19 20 | 15 5 | 7 6 | | | |
| S 25 | 0 27 | 9 15 | 4 54 | 5 15 | 0 16 | 9 28 | 0 30 | 15 17 | 1 13 | 21 4 | 0 3 | 4 56 | 2 44 | 22 42 | 0 22 | 11 1 | 1 46 | 20 42 | 10 16 | 12 46 | 13 16 | 19 20 | 15 6 | 7 5 | | | |
| M26 | 0 50 | 13 4 | 5 10 | 5 59 | 0 9 | 9 57 | 0 27 | 15 6 | 1 14 | 21 3 | 0 4 | 4 54 | 2 44 | 22 42 | 0 22 | 11 1 | 1 46 | 20 41 | 10 16 | 12 48 | 13 17 | 19 20 | 15 6 | 7 5 | | | |
| T 27 | 1 13 | 16 9 | 5 7 | 6 43 | 0 2 | 10 25 | 0 25 | 14 54 | 1 14 | 21 1 | 0 4 | 4 53 | 2 44 | 22 42 | 0 22 | 11 0 | 1 46 | 20 41 | 10 17 | 12 49 | 13 18 | 19 21 | 15 7 | 7 4 | | | |
| W28 | 1 37 | 18 16 | 4 45 | 7 26 | 0s 5 | 10 54 | 0 22 | 14 42 | 1 15 | 21 0 | 0 4 | 4 51 | 2 44 | 22 41 | 0 22 | 11 0 | 1 46 | 20 41 | 10 17 | 12 50 | 13 19 | 19 21 | 15 7 | 7 4 | | | |
| T 29 | 2 0 | 19 16 | 4 6 | 8 8 | 0 13 | 11 22 | 0 19 | 14 30 | 1 15 | 20 59 | 0 4 | 4 49 | 2 44 | 22 41 | 0 22 | 10 59 | 1 46 | 20 40 | 10 17 | 12 50 | 13 20 | 19 22 | 15 8 | 7 3 | | | |
| F 30 | 2s23 | 19n 2 | 3s12 | 8s50 | 0s20 | 11s50 | 0n17 | 14n18 | 1n16 | 20n57 | 0n 4 | 4n47 | 2s45 | 22n41 | 0n22 | 10n59 | 1s46 | 20n40 | 10n17 | 12n50 | 13n21 | 19s22 | 15s 8 | 7n 2 | | | |

ASTRODIENST EPHEMERIS for the year 2203

geocentric

OCTOBER 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|--------|-------|------|--------|-------|------|-------|------|
| S 1 | 0 35 33 | 7♌ 0'00 | 2♌ 4 | 23♌26 | 3♌ 4 | 25♌49 | 26♌20 | 18°R39 | 17♌ 9 | 3°R24 | 1♌ 7 | 26♌ 2 | 24♌25 | 3♌41 | 18♌40 | S 1 |
| S 2 | 0 39 29 | 7°58'52 | 16° 3 | 24°58 | 4°17 | 26°26 | 26°28 | 18°Y34 | 17°11 | 3♌22 | 1° 9 | 26° 3 | 24°22 | 3°48 | 18°41 | S 2 |
| M 3 | 0 43 26 | 8°57'47 | 29°55 | 26°29 | 5°31 | 27° 3 | 26°36 | 18°30 | 17°12 | 3°21 | 1°11 | 26°R 3 | 24°19 | 3°54 | 18°41 | M 3 |
| T 4 | 0 47 22 | 9°56'43 | 13♌39 | 27°58 | 6°45 | 27°40 | 26°44 | 18°25 | 17°13 | 3°19 | 1°12 | 26° 2 | 24°15 | 4° 1 | 18°42 | T 4 |
| W 5 | 0 51 19 | 10°55'42 | 27°12 | 29°27 | 7°58 | 28°17 | 26°52 | 18°20 | 17°14 | 3°18 | 1°14 | 25°58 | 24°12 | 4° 8 | 18°43 | W 5 |
| T 6 | 0 55 15 | 11°54'43 | 10♌33 | 0♌55 | 9°12 | 28°54 | 26°59 | 18°16 | 17°15 | 3°16 | 1°15 | 25°53 | 24° 9 | 4°14 | 18°43 | T 6 |
| F 7 | 0 59 12 | 12°53'45 | 23°39 | 2°22 | 10°25 | 29°31 | 27° 6 | 18°11 | 17°16 | 3°15 | 1°17 | 25°45 | 24° 6 | 4°21 | 18°44 | F 7 |
| S 8 | 1 3 9 | 13°52'50 | 6♌30 | 3°48 | 11°39 | 0♌ 8 | 27°14 | 18° 6 | 17°17 | 3°13 | 1°18 | 25°37 | 24° 3 | 4°28 | 18°45 | S 8 |
| S 9 | 1 7 5 | 14°51'57 | 19° 4 | 5°14 | 12°52 | 0°44 | 27°21 | 18° 2 | 17°18 | 3°12 | 1°20 | 25°28 | 24° 0 | 4°34 | 18°46 | S 9 |
| M10 | 1 11 2 | 15°51'05 | 1♌24 | 6°38 | 14° 6 | 1°21 | 27°28 | 17°57 | 17°18 | 3°10 | 1°21 | 25°19 | 23°56 | 4°41 | 18°48 | M10 |
| T 11 | 1 14 58 | 16°50'16 | 13°31 | 8° 1 | 15°19 | 1°58 | 27°34 | 17°52 | 17°19 | 3° 8 | 1°23 | 25°12 | 23°53 | 4°48 | 18°49 | T 11 |
| W12 | 1 18 55 | 17°49'28 | 25°28 | 9°23 | 16°33 | 2°35 | 27°41 | 17°47 | 17°20 | 3° 7 | 1°24 | 25° 7 | 23°50 | 4°54 | 18°50 | W12 |
| T 13 | 1 22 51 | 18°48'42 | 7♌20 | 10°44 | 17°46 | 3°11 | 27°47 | 17°43 | 17°21 | 3° 5 | 1°26 | 25° 5 | 23°47 | 5° 1 | 18°51 | T 13 |
| F 14 | 1 26 48 | 19°47'58 | 19°10 | 12° 4 | 19° 0 | 3°48 | 27°54 | 17°38 | 17°21 | 3° 3 | 1°27 | 25°D 4 | 23°44 | 5° 8 | 18°53 | F 14 |
| S 15 | 1 30 44 | 20°47'15 | 1♌ 4 | 13°23 | 20°13 | 4°24 | 28° 0 | 17°33 | 17°22 | 3° 2 | 1°29 | 25° 4 | 23°40 | 5°15 | 18°54 | S 15 |
| S 16 | 1 34 41 | 21°46'35 | 13° 8 | 14°40 | 21°26 | 5° 1 | 28° 6 | 17°28 | 17°22 | 3° 0 | 1°30 | 25° 5 | 23°37 | 5°21 | 18°56 | S 16 |
| M17 | 1 38 38 | 22°45'56 | 25°26 | 15°56 | 22°40 | 5°37 | 28°12 | 17°24 | 17°23 | 2°59 | 1°31 | 25°R 6 | 23°34 | 5°28 | 18°58 | M17 |
| T 18 | 1 42 34 | 23°45'18 | 8♌ 3 | 17°11 | 23°53 | 6°13 | 28°17 | 17°19 | 17°23 | 2°57 | 1°33 | 25° 5 | 23°31 | 5°35 | 18°59 | T 18 |
| W19 | 1 46 31 | 24°44'43 | 21° 3 | 18°24 | 25° 7 | 6°50 | 28°23 | 17°14 | 17°23 | 2°55 | 1°34 | 25° 2 | 23°28 | 5°41 | 19° 1 | W19 |
| T 20 | 1 50 27 | 25°44'10 | 4♌26 | 19°36 | 26°20 | 7°26 | 28°28 | 17°10 | 17°23 | 2°54 | 1°35 | 24°57 | 23°25 | 5°48 | 19° 3 | T 20 |
| F 21 | 1 54 24 | 26°43'38 | 18°13 | 20°46 | 27°33 | 8° 2 | 28°34 | 17° 5 | 17°24 | 2°52 | 1°36 | 24°49 | 23°21 | 5°55 | 19° 5 | F 21 |
| S 22 | 1 58 20 | 27°43'08 | 2♌21 | 21°53 | 28°46 | 8°38 | 28°39 | 17° 1 | 17°24 | 2°50 | 1°38 | 24°39 | 23°18 | 6° 1 | 19° 7 | S 22 |
| S 23 | 2 2 17 | 28°42'41 | 16°45 | 22°59 | 29°59 | 9°14 | 28°43 | 16°56 | 17°24 | 2°49 | 1°39 | 24°29 | 23°15 | 6° 8 | 19° 9 | S 23 |
| M24 | 2 6 13 | 29°42'15 | 1♌18 | 24° 3 | 1♌13 | 9°51 | 28°48 | 16°51 | 17°R24 | 2°47 | 1°40 | 24°19 | 23°12 | 6°15 | 19°12 | M24 |
| T 25 | 2 10 10 | 0♌41'52 | 15°53 | 25° 4 | 2°26 | 10°27 | 28°53 | 16°47 | 17°24 | 2°45 | 1°41 | 24°11 | 23° 9 | 6°21 | 19°14 | T 25 |
| W26 | 2 14 7 | 1°41'31 | 0♌24 | 26° 2 | 3°39 | 11° 2 | 28°57 | 16°42 | 17°24 | 2°44 | 1°42 | 24° 5 | 23° 6 | 6°28 | 19°16 | W26 |
| T 27 | 2 18 3 | 2°41'13 | 14°46 | 26°57 | 4°53 | 11°38 | 29° 1 | 16°38 | 17°24 | 2°42 | 1°44 | 24° 1 | 23° 2 | 6°35 | 19°19 | T 27 |
| F 28 | 2 22 0 | 3°40'56 | 28°56 | 27°49 | 6° 6 | 12°14 | 29° 5 | 16°33 | 17°24 | 2°40 | 1°45 | 24°D 0 | 22°59 | 6°41 | 19°21 | F 28 |
| S 29 | 2 25 56 | 4°40'42 | 12♌53 | 28°37 | 7°19 | 12°50 | 29° 9 | 16°29 | 17°23 | 2°39 | 1°46 | 24° 0 | 22°56 | 6°48 | 19°24 | S 29 |
| S 30 | 2 29 53 | 5°40'30 | 26°37 | 29°21 | 8°32 | 13°26 | 29°13 | 16°25 | 17°23 | 2°37 | 1°47 | 24°R 0 | 22°53 | 6°55 | 19°26 | S 30 |
| M31 | 2 33 49 | 6♌40'20 | 10♌ 9 | 29♌59 | 9♌45 | 14♌ 1 | 29♌16 | 16°Y20 | 17°23 | 2♌35 | 1♌48 | 23♌59 | 22♌50 | 7♌ 2 | 19♌29 | M31 |

| Day | ☉ | ☾ | | ♂ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| S 1 | 2s47 | 17n37 | 2s 7 | 9s31 | 0s27 | 12s18 | 0n14 | 14n 6 | 1n16 | 20n56 | 0n 4 | 4n46 | 2s45 | 22n41 | 0n22 | 10n58 | 1s46 | 20n39 | 10n18 | 12n50 | 13n22 | 19s22 | 15s 9 | 7n 2 | |
| S 2 | 3 10 | 15 9 | 0 54 | 10 12 | 0 35 | 12 45 | 0 11 | 13 53 | 1 16 | 20 54 | 0 4 | 4 44 | 2 45 | 22 41 | 0 23 | 10 58 | 1 46 | 20 39 | 10 18 | 12 49 | 13 23 | 19 23 | 15 9 | 7 1 | |
| M 3 | 3 33 | 11 49 | 0n21 | 10 51 | 0 42 | 13 13 | 0 9 | 13 41 | 1 17 | 20 53 | 0 4 | 4 42 | 2 45 | 22 41 | 0 23 | 10 57 | 1 46 | 20 39 | 10 18 | 12 49 | 13 24 | 19 23 | 15 10 | 7 1 | |
| T 4 | 3 56 | 7 52 | 1 34 | 11 31 | 0 49 | 13 40 | 0 6 | 13 29 | 1 17 | 20 52 | 0 5 | 4 40 | 2 45 | 22 41 | 0 23 | 10 56 | 1 46 | 20 38 | 10 18 | 12 50 | 13 25 | 19 24 | 15 10 | 7 0 | |
| W 5 | 4 19 | 3 34 | 2 40 | 12 9 | 0 57 | 14 6 | 0 3 | 13 16 | 1 18 | 20 50 | 0 5 | 4 38 | 2 45 | 22 41 | 0 23 | 10 56 | 1 46 | 20 38 | 10 19 | 12 51 | 13 26 | 19 24 | 15 10 | 7 0 | |
| T 6 | 4 42 | 0s51 | 3 37 | 12 47 | 1 4 | 14 32 | 0 0 | 13 4 | 1 18 | 20 49 | 0 5 | 4 37 | 2 45 | 22 40 | 0 23 | 10 55 | 1 46 | 20 38 | 10 19 | 12 53 | 13 27 | 19 24 | 15 11 | 6 59 | |
| F 7 | 5 5 | 5 8 | 4 21 | 13 24 | 1 11 | 14 58 | 0s 3 | 12 51 | 1 19 | 20 48 | 0 5 | 4 35 | 2 45 | 22 40 | 0 23 | 10 55 | 1 46 | 20 37 | 10 19 | 12 55 | 13 28 | 19 25 | 15 11 | 6 59 | |
| S 8 | 5 28 | 9 6 | 4 50 | 14 0 | 1 19 | 15 24 | 0 5 | 12 39 | 1 19 | 20 46 | 0 5 | 4 33 | 2 45 | 22 40 | 0 23 | 10 54 | 1 46 | 20 37 | 10 19 | 12 58 | 13 29 | 19 25 | 15 12 | 6 58 | |
| S 9 | 5 51 | 12 35 | 5 5 | 14 36 | 1 26 | 15 49 | 0 8 | 12 26 | 1 20 | 20 45 | 0 5 | 4 31 | 2 45 | 22 40 | 0 23 | 10 54 | 1 46 | 20 37 | 10 20 | 13 1 | 13 30 | 19 25 | 15 12 | 6 58 | |
| M10 | 6 14 | 15 26 | 5 5 | 15 10 | 1 33 | 16 14 | 0 11 | 12 14 | 1 20 | 20 44 | 0 5 | 4 29 | 2 45 | 22 40 | 0 23 | 10 53 | 1 46 | 20 36 | 10 20 | 13 4 | 13 32 | 19 26 | 15 12 | 6 57 | |
| T 11 | 6 37 | 17 34 | 4 51 | 15 44 | 1 39 | 16 38 | 0 14 | 12 1 | 1 20 | 20 43 | 0 5 | 4 27 | 2 45 | 22 40 | 0 23 | 10 53 | 1 46 | 20 36 | 10 20 | 13 6 | 13 33 | 19 26 | 15 13 | 6 57 | |
| W12 | 6 59 | 18 55 | 4 25 | 16 17 | 1 46 | 17 2 | 0 17 | 11 48 | 1 21 | 20 41 | 0 6 | 4 26 | 2 45 | 22 40 | 0 23 | 10 52 | 1 46 | 20 36 | 10 20 | 13 8 | 13 34 | 19 26 | 15 13 | 6 56 | |
| T 13 | 7 22 | 19 25 | 3 48 | 16 49 | 1 53 | 17 26 | 0 20 | 11 35 | 1 21 | 20 40 | 0 6 | 4 24 | 2 45 | 22 40 | 0 23 | 10 51 | 1 46 | 20 36 | 10 21 | 13 9 | 13 35 | 19 27 | 15 14 | 6 55 | |
| F 14 | 7 44 | 19 4 | 3 1 | 17 20 | 1 59 | 17 49 | 0 23 | 11 22 | 1 22 | 20 39 | 0 6 | 4 22 | 2 45 | 22 40 | 0 23 | 10 51 | 1 46 | 20 35 | 10 21 | 13 9 | 13 36 | 19 27 | 15 14 | 6 55 | |
| S 15 | 8 6 | 17 51 | 2 5 | 17 50 | 2 6 | 18 12 | 0 26 | 11 9 | 1 22 | 20 38 | 0 6 | 4 20 | 2 45 | 22 40 | 0 23 | 10 50 | 1 46 | 20 35 | 10 21 | 13 9 | 13 37 | 19 27 | 15 14 | 6 54 | |
| S 16 | 8 29 | 15 50 | 1 4 | 18 19 | 2 12 | 18 34 | 0 29 | 10 57 | 1 22 | 20 37 | 0 6 | 4 19 | 2 45 | 22 40 | 0 23 | 10 50 | 1 46 | 20 35 | 10 22 | 13 9 | 13 38 | 19 28 | 15 15 | 6 54 | |
| M17 | 8 51 | 13 3 | 0s 2 | 18 47 | 2 18 | 18 56 | 0 32 | 10 44 | 1 23 | 20 36 | 0 6 | 4 17 | 2 45 | 22 40 | 0 23 | 10 49 | 1 47 | 20 35 | 10 22 | 13 8 | 13 39 | 19 28 | 15 15 | 6 53 | |
| T 18 | 9 13 | 9 36 | 1 9 | 19 14 | 2 23 | 19 17 | 0 35 | 10 30 | 1 23 | 20 35 | 0 6 | 4 15 | 2 45 | 22 40 | 0 23 | 10 49 | 1 47 | 20 34 | 10 22 | 13 9 | 13 40 | 19 28 | 15 15 | 6 53 | |
| W19 | 9 34 | 5 36 | 2 14 | 19 40 | 2 29 | 19 38 | 0 38 | 10 17 | 1 24 | 20 34 | 0 6 | 4 13 | 2 45 | 22 40 | 0 23 | 10 48 | 1 47 | 20 34 | 10 23 | 13 10 | 13 41 | 19 29 | 15 15 | 6 52 | |
| T 20 | 9 56 | 1 12 | 3 14 | 20 5 | 2 34 | 19 58 | 0 40 | 10 4 | 1 24 | 20 33 | 0 7 | 4 12 | 2 45 | 22 40 | 0 23 | 10 47 | 1 47 | 20 34 | 10 23 | 13 12 | 13 42 | 19 29 | 15 16 | 6 52 | |
| F 21 | 10 18 | 3n22 | 4 4 | 20 28 | 2 39 | 20 18 | 0 43 | 9 51 | 1 25 | 20 32 | 0 7 | 4 10 | 2 45 | 22 40 | 0 23 | 10 47 | 1 47 | 20 34 | 10 23 | 13 14 | 13 43 | 19 29 | 15 16 | 6 51 | |
| S 22 | 10 39 | 7 53 | 4 41 | 20 51 | 2 43 | 20 37 | 0 46 | 9 38 | 1 25 | 20 31 | 0 7 | 4 8 | 2 45 | 22 40 | 0 23 | 10 46 | 1 47 | 20 34 | 10 23 | 13 17 | 13 44 | 19 30 | 15 16 | 6 51 | |
| S 23 | 11 0 | 12 1 | 5 0 | 21 12 | 2 47 | 20 56 | 0 49 | 9 25 | 1 25 | 20 30 | 0 7 | 4 6 | 2 45 | 22 40 | 0 23 | 10 46 | 1 47 | 20 34 | 10 24 | 13 21 | 13 45 | 19 30 | 15 16 | 6 50 | |
| M24 | 11 21 | 15 29 | 5 1 | 21 31 | 2 51 | 21 14 | 0 52 | 9 12 | 1 26 | 20 30 | 0 7 | 4 5 | 2 45 | 22 40 | 0 23 | 10 45 | 1 47 | 20 33 | 10 24 | 13 24 | 13 46 | 19 30 | 15 17 | 6 50 | |
| T 25 | 11 42 | 18 0 | 4 42 | 21 50 | 2 54 | 21 31 | 0 55 | 8 58 | 1 26 | 20 29 | 0 7 | 4 3 | 2 45 | 22 40 | 0 23 | 10 45 | 1 47 | 20 33 | 10 24 | 13 27 | 13 47 | 19 30 | 15 17 | 6 49 | |
| W26 | 12 3 | 19 20 | 4 5 | 22 6 | 2 57 | 21 48 | 0 58 | 8 45 | 1 27 | 20 28 | 0 7 | 4 1 | 2 45 | 22 40 | 0 23 | 10 44 | 1 47 | 20 33 | 10 25 | 13 29 | 13 48 | 19 31 | 15 17 | 6 49 | |
| T 27 | 12 23 | 19 24 | 3 13 | 22 22 | 2 59 | 22 5 | 1 1 | 8 32 | 1 27 | 20 27 | 0 8 | 4 0 | 2 44 | 22 40 | 0 23 | 10 43 | 1 47 | 20 33 | 10 25 | 13 30 | 13 49 | 19 31 | 15 17 | 6 48 | |
| F 28 | 12 44 | 18 15 | 2 9 | 22 35 | 3 1 | 22 20 | 1 3 | 8 19 | 1 28 | 20 27 | 0 8 | 3 58 | 2 44 | 22 40 | 0 23 | 10 43 | 1 47 | 20 33 | 10 25 | 13 30 | 13 50 | 19 31 | 15 17 | 6 48 | |
| S 29 | 13 4 | 15 59 | 0 59 | 22 47 | 3 2 | 22 36 | 1 6 | 8 5 | 1 28 | 20 26 | 0 8 | 3 57 | 2 44 | 22 40 | 0 23 | 10 42 | 1 47 | 20 33 | 10 26 | 13 30 | 13 51 | 19 32 | 15 17 | 6 47 | |
| S 30 | 13 24 | 12 51 | 0n14 | 22 57 | 3 2 | 22 50 | 1 9 | 7 52 | 1 28 | 20 25 | 0 8 | 3 55 | 2 44 | 22 40 | 0 23 | 10 42 | 1 47 | 20 33 | 10 26 | 13 30 | 13 52 | 19 32 | 15 18 | 6 47 | |
| M31 | 13s44 | 9n 4 | 1n25 | 23s 5 | 3s 2 | 23s 4 | 1s12 | 7n39 | 1n29 | 20n25 | 0n 8 | 3n53 | 2s44 | 22n40 | 0n23 | 10n41 | 1s47 | 20n33 | 10n26 | 13n31 | 13n53 | 19s32 | 15s18 | 6n46 | |

ASTRODIENST EPHEMERIS for the year 2203

geocentric

NOVEMBER 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|--------|-------|-------|--------|--------|--------|-------|------|--------|-------|-------|-------|------|
| T 1 | 2 37 46 | 7♈40'13 | 23♏29 | 0♈34 | 10♏58 | 14♏37 | 29♏19 | 16♈R16 | 17♈R22 | 2♈R33 | 1♏49 | 23♈R56 | 22♏46 | 7♏8 | 19♏32 | T 1 |
| W 2 | 2 41 42 | 8°40'07 | 6♏38 | 1° 3 | 12°11 | 15°13 | 29°22 | 16♈Y12 | 17♏22 | 2♏32 | 1°50 | 23♏50 | 22°43 | 7°15 | 19°35 | W 2 |
| T 3 | 2 45 39 | 9°40'04 | 19°37 | 1°25 | 13°24 | 15°48 | 29°25 | 16° 8 | 17°21 | 2°30 | 1°51 | 23°41 | 22°40 | 7°22 | 19°38 | T 3 |
| F 4 | 2 49 36 | 10°40'03 | 2♏24 | 1°41 | 14°38 | 16°24 | 29°28 | 16° 4 | 17°21 | 2°28 | 1°52 | 23°29 | 22°37 | 7°28 | 19°41 | F 4 |
| S 5 | 2 53 32 | 11°40'03 | 15° 0 | 1°49 | 15°51 | 16°59 | 29°30 | 16° 0 | 17°20 | 2°27 | 1°52 | 23°16 | 22°34 | 7°35 | 19°44 | S 5 |
| S 6 | 2 57 29 | 12°40'06 | 27°24 | 1°R49 | 17° 4 | 17°34 | 29°33 | 15°56 | 17°20 | 2°25 | 1°53 | 23° 2 | 22°31 | 7°42 | 19°47 | S 6 |
| M 7 | 3 1 25 | 13°40'10 | 9♏36 | 1°41 | 18°17 | 18° 9 | 29°35 | 15°52 | 17°19 | 2°24 | 1°54 | 22°48 | 22°27 | 7°48 | 19°50 | M 7 |
| T 8 | 3 5 22 | 14°40'16 | 21°38 | 1°23 | 19°30 | 18°45 | 29°37 | 15°48 | 17°18 | 2°22 | 1°55 | 22°37 | 22°24 | 7°55 | 19°53 | T 8 |
| W 9 | 3 9 18 | 15°40'24 | 3♏32 | 0°56 | 20°42 | 19°20 | 29°39 | 15°44 | 17°17 | 2°20 | 1°56 | 22°28 | 22°21 | 8° 2 | 19°57 | W 9 |
| T 10 | 3 13 15 | 16°40'33 | 15°21 | 0°19 | 21°55 | 19°55 | 29°40 | 15°41 | 17°17 | 2°19 | 1°56 | 22°22 | 22°18 | 8° 8 | 20° 0 | T 10 |
| F 11 | 3 17 11 | 17°40'44 | 27° 9 | 29♏32 | 23° 8 | 20°30 | 29°41 | 15°37 | 17°16 | 2°17 | 1°57 | 22°18 | 22°15 | 8°15 | 20° 3 | F 11 |
| S 12 | 3 21 8 | 18°40'57 | 9♏1 | 28°36 | 24°21 | 21° 5 | 29°43 | 15°33 | 17°15 | 2°15 | 1°58 | 22°17 | 22°12 | 8°22 | 20° 7 | S 12 |
| S 13 | 3 25 5 | 19°41'11 | 21° 1 | 27°32 | 25°34 | 21°40 | 29°44 | 15°30 | 17°14 | 2°14 | 1°59 | 22°17 | 22° 8 | 8°28 | 20°11 | S 13 |
| M14 | 3 29 1 | 20°41'26 | 3♏16 | 26°21 | 26°47 | 22°14 | 29°44 | 15°26 | 17°13 | 2°12 | 1°59 | 22°16 | 22° 5 | 8°35 | 20°14 | M14 |
| T 15 | 3 32 58 | 21°41'43 | 15°51 | 25° 4 | 28° 0 | 22°49 | 29°45 | 15°23 | 17°12 | 2°11 | 2° 0 | 22°15 | 22° 2 | 8°42 | 20°18 | T 15 |
| W16 | 3 36 54 | 22°42'01 | 28°51 | 23°45 | 29°12 | 23°24 | 29°45 | 15°20 | 17°10 | 2° 9 | 2° 0 | 22°11 | 21°59 | 8°48 | 20°22 | W16 |
| T 17 | 3 40 51 | 23°42'21 | 12♏Y18 | 22°25 | 0♏25 | 23°58 | 29°R45 | 15°17 | 17° 9 | 2° 8 | 2° 1 | 22° 5 | 21°56 | 8°55 | 20°25 | T 17 |
| F 18 | 3 44 47 | 24°42'42 | 26°14 | 21° 7 | 1°38 | 24°33 | 29°45 | 15°14 | 17° 8 | 2° 6 | 2° 1 | 21°56 | 21°52 | 9° 2 | 20°29 | F 18 |
| S 19 | 3 48 44 | 25°43'05 | 10♏37 | 19°53 | 2°50 | 25° 7 | 29°45 | 15°10 | 17° 7 | 2° 5 | 2° 2 | 21°46 | 21°49 | 9° 8 | 20°33 | S 19 |
| S 20 | 3 52 40 | 26°43'29 | 25°21 | 18°47 | 4° 3 | 25°42 | 29°45 | 15° 8 | 17° 5 | 2° 3 | 2° 2 | 21°34 | 21°46 | 9°15 | 20°37 | S 20 |
| M21 | 3 56 37 | 27°43'55 | 10♏19 | 17°49 | 5°15 | 26°16 | 29°44 | 15° 5 | 17° 4 | 2° 2 | 2° 3 | 21°22 | 21°43 | 9°22 | 20°41 | M21 |
| T 22 | 4 0 34 | 28°44'23 | 25°20 | 17° 2 | 6°28 | 26°50 | 29°43 | 15° 2 | 17° 3 | 2° 0 | 2° 3 | 21°12 | 21°40 | 9°29 | 20°45 | T 22 |
| W23 | 4 4 30 | 29°44'52 | 10♏51 | 16°25 | 7°40 | 27°24 | 29°42 | 14°59 | 17° 1 | 1°59 | 2° 4 | 21° 5 | 21°37 | 9°35 | 20°49 | W23 |
| T 24 | 4 8 27 | 0♏45'23 | 24°58 | 16° 1 | 8°53 | 27°58 | 29°41 | 14°57 | 17° 0 | 1°57 | 2° 4 | 21° 0 | 21°33 | 9°42 | 20°54 | T 24 |
| F 25 | 4 12 23 | 1°45'56 | 9♏21 | 15°48 | 10° 5 | 28°32 | 29°40 | 14°54 | 16°58 | 1°56 | 2° 4 | 20°58 | 21°30 | 9°49 | 20°58 | F 25 |
| S 26 | 4 16 20 | 2°46'31 | 23°24 | 15°D47 | 11°17 | 29° 6 | 29°38 | 14°52 | 16°56 | 1°54 | 2° 4 | 20°D58 | 21°27 | 9°55 | 21° 2 | S 26 |
| S 27 | 4 20 16 | 3°47'07 | 7♏7 | 15°56 | 12°30 | 29°40 | 29°36 | 14°50 | 16°55 | 1°53 | 2° 5 | 20°R58 | 21°24 | 10° 2 | 21° 7 | S 27 |
| M28 | 4 24 13 | 4°47'45 | 20°30 | 16°15 | 13°42 | 0♏14 | 29°34 | 14°47 | 16°53 | 1°52 | 2° 5 | 20°57 | 21°21 | 10° 9 | 21°11 | M28 |
| T 29 | 4 28 9 | 5°48'24 | 3♏37 | 16°44 | 14°54 | 0°47 | 29°32 | 14°45 | 16°51 | 1°50 | 2° 5 | 20°54 | 21°17 | 10°15 | 21°15 | T 29 |
| W30 | 4 32 6 | 6♏49'06 | 16♏29 | 17♏20 | 16♏6 | 1♏21 | 29♏30 | 14°Y43 | 16♏50 | 1♏49 | 2♏5 | 20♏48 | 21♏14 | 10♏22 | 21♏20 | W30 |

| Day | ☉ | ☾ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | |
|------|-------|-------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| T 1 | 14s 3 | 4n52 | 2n29 | 23s11 | 3s 0 | 23s17 | 1s14 | 7n25 | 1n29 | 20n24 | 0n 8 | 3n52 | 2s44 | 22n40 | 0n23 | 10n41 | 1s47 | 20n33 | 10n27 | 13n32 | 13n54 | 19s32 | 15s18 | 6n46 | |
| W 2 | 14 22 | 0 31 | 3 25 | 23 14 | 2 58 | 23 30 | 1 17 | 7 12 | 1 30 | 20 24 | 0 8 | 3 50 | 2 44 | 22 40 | 0 23 | 10 40 | 1 47 | 20 33 | 10 27 | 13 34 | 13 56 | 19 33 | 15 18 | 6 45 | |
| T 3 | 14 42 | 3s49 | 4 10 | 23 16 | 2 54 | 23 42 | 1 20 | 6 59 | 1 30 | 20 23 | 0 9 | 3 49 | 2 44 | 22 40 | 0 23 | 10 39 | 1 47 | 20 33 | 10 28 | 13 37 | 13 57 | 19 33 | 15 18 | 6 45 | |
| F 4 | 15 0 | 7 54 | 4 41 | 23 14 | 2 50 | 23 53 | 1 22 | 6 45 | 1 30 | 20 23 | 0 9 | 3 48 | 2 44 | 22 41 | 0 23 | 10 39 | 1 47 | 20 33 | 10 28 | 13 41 | 13 58 | 19 33 | 15 18 | 6 44 | |
| S 5 | 15 19 | 11 35 | 4 57 | 23 10 | 2 44 | 24 4 | 1 25 | 6 32 | 1 31 | 20 22 | 0 9 | 3 46 | 2 44 | 22 41 | 0 24 | 10 38 | 1 47 | 20 33 | 10 28 | 13 45 | 13 59 | 19 33 | 15 18 | 6 44 | |
| S 6 | 15 37 | 14 42 | 4 59 | 23 3 | 2 36 | 24 14 | 1 27 | 6 18 | 1 31 | 20 22 | 0 9 | 3 45 | 2 43 | 22 41 | 0 24 | 10 38 | 1 47 | 20 33 | 10 29 | 13 50 | 14 0 | 19 34 | 15 18 | 6 43 | |
| M 7 | 15 55 | 17 7 | 4 48 | 22 53 | 2 28 | 24 23 | 1 30 | 6 5 | 1 32 | 20 22 | 0 9 | 3 43 | 2 43 | 22 41 | 0 24 | 10 37 | 1 47 | 20 33 | 10 29 | 13 54 | 14 1 | 19 34 | 15 18 | 6 43 | |
| T 8 | 16 13 | 18 46 | 4 23 | 22 39 | 2 17 | 24 32 | 1 32 | 5 52 | 1 32 | 20 22 | 0 9 | 3 42 | 2 43 | 22 41 | 0 24 | 10 37 | 1 47 | 20 33 | 10 29 | 13 58 | 14 2 | 19 34 | 15 18 | 6 42 | |
| W 9 | 16 31 | 19 34 | 3 47 | 22 22 | 2 5 | 24 39 | 1 35 | 5 38 | 1 32 | 20 21 | 0 9 | 3 41 | 2 43 | 22 41 | 0 24 | 10 36 | 1 47 | 20 33 | 10 30 | 14 1 | 14 3 | 19 34 | 15 18 | 6 42 | |
| T 10 | 16 48 | 19 31 | 3 2 | 22 1 | 1 52 | 24 47 | 1 37 | 5 25 | 1 33 | 20 21 | 0 10 | 3 39 | 2 43 | 22 41 | 0 24 | 10 36 | 1 46 | 20 33 | 10 30 | 14 3 | 14 4 | 19 35 | 15 18 | 6 41 | |
| F 11 | 17 5 | 18 36 | 2 9 | 21 36 | 1 36 | 24 53 | 1 39 | 5 11 | 1 33 | 20 21 | 0 10 | 3 38 | 2 43 | 22 41 | 0 24 | 10 35 | 1 46 | 20 33 | 10 30 | 14 4 | 14 5 | 19 35 | 15 18 | 6 41 | |
| S 12 | 17 22 | 16 52 | 1 10 | 21 7 | 1 19 | 24 59 | 1 41 | 4 58 | 1 34 | 20 21 | 0 10 | 3 37 | 2 42 | 22 42 | 0 24 | 10 35 | 1 46 | 20 33 | 10 31 | 14 4 | 14 6 | 19 35 | 15 18 | 6 41 | |
| S 13 | 17 38 | 14 22 | 0 7 | 20 35 | 1 1 | 25 4 | 1 44 | 4 45 | 1 34 | 20 21 | 0 10 | 3 36 | 2 42 | 22 42 | 0 24 | 10 34 | 1 46 | 20 33 | 10 31 | 14 4 | 14 7 | 19 35 | 15 18 | 6 40 | |
| M14 | 17 54 | 11 12 | 0s58 | 19 59 | 0 42 | 25 8 | 1 46 | 4 31 | 1 35 | 20 21 | 0 10 | 3 35 | 2 42 | 22 42 | 0 24 | 10 34 | 1 46 | 20 33 | 10 32 | 14 4 | 14 8 | 19 36 | 15 18 | 6 40 | |
| T 15 | 18 10 | 7 26 | 2 1 | 19 22 | 0 22 | 25 12 | 1 48 | 4 18 | 1 35 | 20 21 | 0 10 | 3 34 | 2 42 | 22 42 | 0 24 | 10 33 | 1 46 | 20 33 | 10 32 | 14 5 | 14 9 | 19 36 | 15 18 | 6 39 | |
| W16 | 18 25 | 3 13 | 3 0 | 18 42 | 0 1 | 25 14 | 1 50 | 4 5 | 1 35 | 20 21 | 0 11 | 3 32 | 2 42 | 22 42 | 0 24 | 10 32 | 1 46 | 20 34 | 10 32 | 14 6 | 14 10 | 19 36 | 15 18 | 6 39 | |
| T 17 | 18 41 | 1n18 | 3 52 | 18 2 | 0n20 | 25 16 | 1 52 | 3 51 | 1 36 | 20 21 | 0 11 | 3 31 | 2 42 | 22 42 | 0 24 | 10 32 | 1 46 | 20 34 | 10 33 | 14 8 | 14 11 | 19 36 | 15 17 | 6 38 | |
| F 18 | 18 55 | 5 54 | 4 31 | 17 23 | 0 40 | 25 18 | 1 54 | 3 38 | 1 36 | 20 21 | 0 11 | 3 30 | 2 41 | 22 43 | 0 24 | 10 31 | 1 46 | 20 34 | 10 33 | 14 11 | 14 12 | 19 36 | 15 17 | 6 38 | |
| S 19 | 19 10 | 10 19 | 4 55 | 16 45 | 0 59 | 25 18 | 1 55 | 3 25 | 1 37 | 20 21 | 0 11 | 3 29 | 2 41 | 22 43 | 0 24 | 10 31 | 1 46 | 20 34 | 10 33 | 14 14 | 14 13 | 19 37 | 15 17 | 6 38 | |
| S 20 | 19 24 | 14 13 | 5 0 | 16 10 | 1 16 | 25 18 | 1 57 | 3 12 | 1 37 | 20 22 | 0 11 | 3 28 | 2 41 | 22 43 | 0 24 | 10 30 | 1 46 | 20 34 | 10 34 | 14 18 | 14 14 | 19 37 | 15 17 | 6 37 | |
| M21 | 19 38 | 17 17 | 4 44 | 15 39 | 1 32 | 25 17 | 1 59 | 2 58 | 1 37 | 20 22 | 0 11 | 3 28 | 2 41 | 22 43 | 0 24 | 10 30 | 1 46 | 20 34 | 10 34 | 14 22 | 14 15 | 19 37 | 15 17 | 6 37 | |
| T 22 | 19 51 | 19 10 | 4 9 | 15 12 | 1 46 | 25 15 | 2 0 | 2 45 | 1 38 | 20 22 | 0 11 | 3 27 | 2 41 | 22 43 | 0 24 | 10 30 | 1 46 | 20 35 | 10 35 | 14 25 | 14 16 | 19 37 | 15 17 | 6 36 | |
| W23 | 20 4 | 19 44 | 3 17 | 14 50 | 1 58 | 25 13 | 2 2 | 2 32 | 1 38 | 20 23 | 0 12 | 3 26 | 2 40 | 22 44 | 0 24 | 10 29 | 1 46 | 20 35 | 10 35 | 14 27 | 14 17 | 19 37 | 15 16 | 6 36 | |
| T 24 | 20 17 | 18 56 | 2 13 | 14 34 | 2 8 | 25 10 | 2 3 | 2 19 | 1 39 | 20 23 | 0 12 | 3 25 | 2 40 | 22 44 | 0 24 | 10 29 | 1 46 | 20 35 | 10 35 | 14 29 | 14 18 | 19 38 | 15 16 | 6 36 | |
| F 25 | 20 29 | 16 55 | 1 1 | 14 22 | 2 16 | 25 6 | 2 5 | 2 6 | 1 39 | 20 23 | 0 12 | 3 24 | 2 40 | 22 44 | 0 24 | 10 28 | 1 46 | 20 35 | 10 36 | 14 29 | 14 19 | 19 38 | 15 16 | 6 35 | |
| S 26 | 20 41 | 13 54 | 0n13 | 14 16 | 2 22 | 25 2 | 2 6 | 1 53 | 1 39 | 20 24 | 0 12 | 3 24 | 2 40 | 22 44 | 0 24 | 10 28 | 1 46 | 20 36 | 10 36 | 14 30 | 14 20 | 19 38 | 15 16 | 6 35 | |
| S 27 | 20 53 | 10 12 | 1 24 | 14 15 | 2 27 | 24 56 | 2 7 | 1 40 | 1 40 | 20 25 | 0 12 | 3 23 | 2 40 | 22 44 | 0 24 | 10 27 | 1 46 | 20 36 | 10 36 | 14 29 | 14 21 | 19 38 | 15 15 | 6 35 | |
| M28 | 21 4 | 6 3 | 2 30 | 14 18 | 2 29 | 24 50 | 2 8 | 1 27 | 1 40 | 20 25 | 0 12 | 3 22 | 2 39 | 22 45 | 0 24 | 10 27 | 1 46 | 20 36 | 10 37 | 14 30 | 14 22 | 19 38 | 15 15 | 6 34 | |
| T 29 | 21 15 | 1 43 | 3 25 | 14 25 | 2 30 | 24 43 | 2 9 | 1 14 | 1 41 | 20 26 | 0 13 | 3 22 | 2 39 | 22 45 | 0 24 | 10 26 | 1 46 | 20 36 | 10 37 | 14 31 | 14 23 | 19 38 | 15 15 | 6 34 | |
| W30 | 21s25 | 2s38 | 4n10 | 14s35 | 2n30 | 24s36 | 2s10 | 1n 1 | 1n41 | 20n26 | 0n13 | 3n21 | 2s39 | 22n45 | 0n24 | 10n26 | 1s46 | 20n37 | 10n38 | 14n33 | 14n24 | 19s39 | 15s14 | 6n34 | |

ASTRODIENST EPHEMERIS for the year 2203
geocentric

DECEMBER 2203

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | ♈ | ♉ | Day |
|------|---------|----------|-------|-------|-------|-------|--------|--------|--------|-------|------|--------|-------|-------|-------|------|
| T 1 | 4 36 3 | 7♊49'49 | 29♉9 | 18♌4 | 17♋18 | 1♌54 | 29°R27 | 14°R41 | 16°R48 | 1°R48 | 2♑5 | 20°R40 | 21♊11 | 10♋29 | 21♋24 | T 1 |
| F 2 | 4 39 59 | 8°50'33 | 11♌38 | 18°55 | 18°30 | 2°28 | 29♉24 | 14°Y40 | 16♋46 | 1♌46 | 2°5 | 20♊28 | 21°8 | 10°35 | 21°29 | F 2 |
| S 3 | 4 43 56 | 9°51'19 | 23°58 | 19°51 | 19°42 | 3°1 | 29°21 | 14°38 | 16°44 | 1°45 | 2°6 | 20°15 | 21°5 | 10°42 | 21°34 | S 3 |
| S 4 | 4 47 52 | 10°52'06 | 6♊9 | 20°52 | 20°54 | 3°34 | 29°18 | 14°36 | 16°42 | 1°44 | 2°6 | 20°2 | 21°2 | 10°49 | 21°38 | S 4 |
| M 5 | 4 51 49 | 11°52'55 | 18°12 | 21°57 | 22°6 | 4°7 | 29°15 | 14°35 | 16°40 | 1°43 | 2°R6 | 19°49 | 20°58 | 10°55 | 21°43 | M 5 |
| T 6 | 4 55 45 | 12°53'44 | 0♋8 | 23°6 | 23°18 | 4°40 | 29°11 | 14°33 | 16°38 | 1°42 | 2°6 | 19°37 | 20°55 | 11°2 | 21°48 | T 6 |
| W 7 | 4 59 42 | 13°54'35 | 11°58 | 24°19 | 24°29 | 5°13 | 29°7 | 14°32 | 16°36 | 1°40 | 2°6 | 19°28 | 20°52 | 11°9 | 21°53 | W 7 |
| T 8 | 5 3 38 | 14°55'27 | 23°46 | 25°34 | 25°41 | 5°46 | 29°3 | 14°31 | 16°34 | 1°39 | 2°5 | 19°22 | 20°49 | 11°15 | 21°57 | T 8 |
| F 9 | 5 7 35 | 15°56'19 | 5♋33 | 26°52 | 26°53 | 6°19 | 28°59 | 14°30 | 16°32 | 1°38 | 2°5 | 19°19 | 20°46 | 11°22 | 22°2 | F 9 |
| S 10 | 5 11 32 | 16°57'13 | 17°23 | 28°11 | 28°4 | 6°51 | 28°55 | 14°29 | 16°30 | 1°37 | 2°5 | 19°D18 | 20°43 | 11°29 | 22°7 | S 10 |
| S 11 | 5 15 28 | 17°58'07 | 29°22 | 29°33 | 29°16 | 7°24 | 28°51 | 14°28 | 16°28 | 1°36 | 2°5 | 19°18 | 20°39 | 11°35 | 22°12 | S 11 |
| M12 | 5 19 25 | 18°59'02 | 11♊34 | 0♊56 | 0♋27 | 7°56 | 28°46 | 14°27 | 16°25 | 1°35 | 2°5 | 19°19 | 20°36 | 11°42 | 22°17 | M12 |
| T 13 | 5 23 21 | 19°59'58 | 24°4 | 2°20 | 1°38 | 8°29 | 28°41 | 14°27 | 16°23 | 1°34 | 2°5 | 19°R19 | 20°33 | 11°49 | 22°22 | T 13 |
| W14 | 5 27 18 | 21°0'55 | 6♊58 | 3°45 | 2°50 | 9°1 | 28°36 | 14°26 | 16°21 | 1°33 | 2°4 | 19°17 | 20°30 | 11°55 | 22°27 | W14 |
| T 15 | 5 31 14 | 22°1'52 | 20°19 | 5°11 | 4°1 | 9°33 | 28°31 | 14°26 | 16°19 | 1°32 | 2°4 | 19°14 | 20°27 | 12°2 | 22°32 | T 15 |
| F 16 | 5 35 11 | 23°2'49 | 4♋10 | 6°38 | 5°12 | 10°5 | 28°26 | 14°25 | 16°16 | 1°31 | 2°4 | 19°8 | 20°23 | 12°9 | 22°37 | F 16 |
| S 17 | 5 39 7 | 24°3'48 | 18°31 | 8°6 | 6°23 | 10°37 | 28°20 | 14°25 | 16°14 | 1°30 | 2°3 | 19°0 | 20°20 | 12°15 | 22°43 | S 17 |
| S 18 | 5 43 4 | 25°4'47 | 3♊19 | 9°35 | 7°34 | 11°8 | 28°15 | 14°D25 | 16°12 | 1°29 | 2°3 | 18°52 | 20°17 | 12°22 | 22°48 | S 18 |
| M19 | 5 47 1 | 26°5'46 | 18°25 | 11°4 | 8°44 | 11°40 | 28°9 | 14°25 | 16°9 | 1°29 | 2°3 | 18°43 | 20°14 | 12°29 | 22°53 | M19 |
| T 20 | 5 50 57 | 27°6'47 | 3♋41 | 12°33 | 9°55 | 12°11 | 28°3 | 14°25 | 16°7 | 1°28 | 2°2 | 18°36 | 20°11 | 12°35 | 22°58 | T 20 |
| W21 | 5 54 54 | 28°7'48 | 18°56 | 14°3 | 11°6 | 12°43 | 27°57 | 14°26 | 16°4 | 1°27 | 2°2 | 18°30 | 20°8 | 12°42 | 23°3 | W21 |
| T 22 | 5 58 50 | 29°8'50 | 3♌58 | 15°33 | 12°16 | 13°14 | 27°51 | 14°26 | 16°2 | 1°26 | 2°1 | 18°27 | 20°4 | 12°49 | 23°9 | T 22 |
| F 23 | 6 2 47 | 0♋9'52 | 18°41 | 17°4 | 13°26 | 13°45 | 27°44 | 14°26 | 16°0 | 1°26 | 2°1 | 18°D26 | 20°1 | 12°56 | 23°14 | F 23 |
| S 24 | 6 6 43 | 1°10'56 | 3♑0 | 18°35 | 14°37 | 14°16 | 27°38 | 14°27 | 15°57 | 1°25 | 2°0 | 18°27 | 19°58 | 13°2 | 23°19 | S 24 |
| S 25 | 6 10 40 | 2°12'00 | 16°54 | 20°6 | 15°47 | 14°47 | 27°31 | 14°28 | 15°55 | 1°24 | 1°59 | 18°28 | 19°55 | 13°9 | 23°25 | S 25 |
| M26 | 6 14 36 | 3°13'05 | 0♌22 | 21°37 | 16°57 | 15°18 | 27°25 | 14°28 | 15°52 | 1°24 | 1°59 | 18°R29 | 19°52 | 13°16 | 23°30 | M26 |
| T 27 | 6 18 33 | 4°14'11 | 13°27 | 23°9 | 18°6 | 15°48 | 27°18 | 14°29 | 15°50 | 1°23 | 1°58 | 18°29 | 19°49 | 13°22 | 23°35 | T 27 |
| W28 | 6 22 30 | 5°15'18 | 26°13 | 24°41 | 19°16 | 16°19 | 27°11 | 14°30 | 15°47 | 1°23 | 1°58 | 18°26 | 19°45 | 13°29 | 23°41 | W28 |
| T 29 | 6 26 26 | 6°16'25 | 8♌44 | 26°13 | 20°26 | 16°49 | 27°4 | 14°31 | 15°45 | 1°22 | 1°57 | 18°22 | 19°42 | 13°36 | 23°46 | T 29 |
| F 30 | 6 30 23 | 7°17'33 | 21°1 | 27°46 | 21°35 | 17°19 | 26°56 | 14°33 | 15°42 | 1°22 | 1°56 | 18°16 | 19°39 | 13°42 | 23°52 | F 30 |
| S 31 | 6 34 19 | 8♋18'41 | 3♊8 | 29♊18 | 22♋45 | 17♌49 | 26♉49 | 14°Y34 | 15♋39 | 1♌21 | 1°55 | 18♊9 | 19♊36 | 13♋49 | 23♋57 | S 31 |

| Day | ☉ | ☾ | | ♊ | | ♋ | | ♌ | | ♍ | | ♎ | | ♏ | | ♐ | | ♑ | | ♒ | ♓ | ♈ | ♉ | ♊ | ♋ | ♌ |
|------|-------|-------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | lat | lat |
| T 1 | 21s35 | 6s47 | 4n41 | 14s48 | 2n29 | 24s28 | 2s11 | 0n48 | 1n41 | 20n27 | 0n13 | 3n21 | 2s39 | 22n45 | 0n24 | 10n26 | 1s46 | 20n37 | 10n38 | 14n35 | 14n25 | 19s39 | 15s14 | 6n33 | 6n33 | 6n33 |
| F 2 | 21 45 | 10 35 | 4 58 | 15 4 | 2 27 | 24 19 | 2 12 | 0 35 | 1 42 | 20 28 | 0 13 | 3 20 | 2 38 | 22 46 | 0 24 | 10 25 | 1 46 | 20 37 | 10 38 | 14 39 | 14 26 | 19 39 | 15 14 | 6 33 | 6 33 | 6 33 |
| S 3 | 21 54 | 13 53 | 5 1 | 15 22 | 2 23 | 24 9 | 2 13 | 0 22 | 1 42 | 20 29 | 0 13 | 3 20 | 2 38 | 22 46 | 0 24 | 10 25 | 1 46 | 20 38 | 10 39 | 14 43 | 14 27 | 19 39 | 15 13 | 6 33 | 6 33 | 6 33 |
| S 4 | 22 3 | 16 33 | 4 50 | 15 42 | 2 19 | 23 59 | 2 13 | 0 9 | 1 43 | 20 29 | 0 13 | 3 19 | 2 38 | 22 46 | 0 24 | 10 24 | 1 46 | 20 38 | 10 39 | 14 47 | 14 28 | 19 39 | 15 13 | 6 32 | 6 32 | 6 32 |
| M 5 | 22 11 | 18 28 | 4 26 | 16 4 | 2 15 | 23 48 | 2 14 | 0s 4 | 1 43 | 20 30 | 0 14 | 3 19 | 2 38 | 22 46 | 0 24 | 10 24 | 1 46 | 20 38 | 10 40 | 14 51 | 14 29 | 19 39 | 15 12 | 6 32 | 6 32 | 6 32 |
| T 6 | 22 19 | 19 34 | 3 50 | 16 26 | 2 10 | 23 37 | 2 14 | 0 16 | 1 44 | 20 31 | 0 14 | 3 19 | 2 37 | 22 47 | 0 24 | 10 24 | 1 46 | 20 39 | 10 40 | 14 55 | 14 30 | 19 40 | 15 12 | 6 32 | 6 32 | 6 32 |
| W 7 | 22 27 | 19 48 | 3 5 | 16 49 | 2 4 | 23 24 | 2 15 | 0 29 | 1 44 | 20 32 | 0 14 | 3 18 | 2 37 | 22 47 | 0 24 | 10 23 | 1 46 | 20 39 | 10 40 | 14 58 | 14 31 | 19 40 | 15 11 | 6 31 | 6 31 | 6 31 |
| T 8 | 22 34 | 19 10 | 2 12 | 17 13 | 1 58 | 23 11 | 2 15 | 0 41 | 1 44 | 20 33 | 0 14 | 3 18 | 2 37 | 22 47 | 0 24 | 10 23 | 1 46 | 20 39 | 10 41 | 15 0 | 14 32 | 19 40 | 15 11 | 6 31 | 6 31 | 6 31 |
| F 9 | 22 40 | 17 41 | 1 13 | 17 37 | 1 51 | 22 58 | 2 15 | 0 54 | 1 45 | 20 34 | 0 14 | 3 18 | 2 37 | 22 48 | 0 24 | 10 23 | 1 46 | 20 40 | 10 41 | 15 1 | 14 33 | 19 40 | 15 11 | 6 31 | 6 31 | 6 31 |
| S 10 | 22 46 | 15 27 | 0 10 | 18 2 | 1 45 | 22 44 | 2 15 | 1 7 | 1 45 | 20 35 | 0 14 | 3 18 | 2 36 | 22 48 | 0 24 | 10 22 | 1 46 | 20 40 | 10 41 | 15 1 | 14 34 | 19 40 | 15 10 | 6 31 | 6 31 | 6 31 |
| S 11 | 22 52 | 12 31 | 0s54 | 18 26 | 1 38 | 22 29 | 2 15 | 1 19 | 1 46 | 20 36 | 0 15 | 3 18 | 2 36 | 22 48 | 0 24 | 10 22 | 1 46 | 20 41 | 10 42 | 15 1 | 14 35 | 19 40 | 15 10 | 6 30 | 6 30 | 6 30 |
| M12 | 22 57 | 9 1 | 1 56 | 18 50 | 1 31 | 22 13 | 2 15 | 1 31 | 1 46 | 20 37 | 0 15 | 3 18 | 2 36 | 22 48 | 0 24 | 10 22 | 1 46 | 20 41 | 10 42 | 15 1 | 14 36 | 19 40 | 15 9 | 6 30 | 6 30 | 6 30 |
| T 13 | 23 2 | 5 2 | 2 55 | 19 14 | 1 23 | 21 57 | 2 14 | 1 44 | 1 46 | 20 38 | 0 15 | 3 18 | 2 36 | 22 49 | 0 24 | 10 21 | 1 45 | 20 42 | 10 43 | 15 1 | 14 37 | 19 40 | 15 8 | 6 30 | 6 30 | 6 30 |
| W14 | 23 6 | 0 43 | 3 47 | 19 38 | 1 16 | 21 41 | 2 14 | 1 56 | 1 47 | 20 40 | 0 15 | 3 18 | 2 35 | 22 49 | 0 24 | 10 21 | 1 45 | 20 42 | 10 43 | 15 1 | 14 38 | 19 41 | 15 8 | 6 30 | 6 30 | 6 30 |
| T 15 | 23 10 | 3n47 | 4 28 | 20 1 | 1 9 | 21 23 | 2 14 | 2 8 | 1 47 | 20 41 | 0 15 | 3 18 | 2 35 | 22 49 | 0 24 | 10 21 | 1 45 | 20 42 | 10 43 | 15 2 | 14 39 | 19 41 | 15 7 | 6 29 | 6 29 | 6 29 |
| F 16 | 23 14 | 8 15 | 4 56 | 20 23 | 1 1 | 21 6 | 2 13 | 2 20 | 1 48 | 20 42 | 0 15 | 3 18 | 2 35 | 22 50 | 0 25 | 10 20 | 1 45 | 20 43 | 10 44 | 15 4 | 14 40 | 19 41 | 15 7 | 6 29 | 6 29 | 6 29 |
| S 17 | 23 17 | 12 25 | 5 6 | 20 45 | 0 54 | 20 47 | 2 12 | 2 32 | 1 48 | 20 43 | 0 16 | 3 18 | 2 35 | 22 50 | 0 25 | 10 20 | 1 45 | 20 43 | 10 44 | 15 6 | 14 41 | 19 41 | 15 6 | 6 29 | 6 29 | 6 29 |
| S 18 | 23 19 | 15 56 | 4 57 | 21 6 | 0 46 | 20 28 | 2 11 | 2 44 | 1 48 | 20 45 | 0 16 | 3 18 | 2 34 | 22 50 | 0 25 | 10 20 | 1 45 | 20 44 | 10 44 | 15 9 | 14 42 | 19 41 | 15 6 | 6 29 | 6 29 | 6 29 |
| M19 | 23 21 | 18 29 | 4 26 | 21 26 | 0 38 | 20 9 | 2 10 | 2 56 | 1 49 | 20 46 | 0 16 | 3 19 | 2 34 | 22 50 | 0 25 | 10 20 | 1 45 | 20 44 | 10 45 | 15 12 | 14 43 | 19 41 | 15 5 | 6 29 | 6 29 | 6 29 |
| T 20 | 23 23 | 19 45 | 3 37 | 21 46 | 0 31 | 19 49 | 2 9 | 3 8 | 1 49 | 20 47 | 0 16 | 3 19 | 2 34 | 22 51 | 0 25 | 10 19 | 1 45 | 20 45 | 10 45 | 15 14 | 14 44 | 19 41 | 15 4 | 6 28 | 6 28 | 6 28 |
| W21 | 23 24 | 19 34 | 2 32 | 22 4 | 0 23 | 19 29 | 2 8 | 3 20 | 1 50 | 20 49 | 0 16 | 3 19 | 2 34 | 22 51 | 0 25 | 10 19 | 1 45 | 20 45 | 10 46 | 15 16 | 14 45 | 19 41 | 15 4 | 6 28 | 6 28 | 6 28 |
| T 22 | 23 24 | 17 59 | 1 17 | 22 22 | 0 16 | 19 8 | 2 7 | 3 32 | 1 50 | 20 50 | 0 16 | 3 20 | 2 33 | 22 51 | 0 25 | 10 19 | 1 45 | 20 46 | 10 46 | 15 17 | 14 46 | 19 41 | 15 3 | 6 28 | 6 28 | 6 28 |
| F 23 | 23 25 | 15 14 | 0n1 | 22 38 | 0 9 | 18 46 | 2 6 | 3 43 | 1 50 | 20 51 | 0 16 | 3 20 | 2 33 | 22 52 | 0 25 | 10 19 | 1 45 | 20 46 | 10 46 | 15 17 | 14 47 | 19 41 | 15 2 | 6 28 | 6 28 | 6 28 |
| S 24 | 23 24 | 11 36 | 1 18 | 22 54 | 0 2 | 18 24 | 2 4 | 3 55 | 1 51 | 20 53 | 0 17 | 3 20 | 2 33 | 22 52 | 0 25 | 10 19 | 1 45 | 20 47 | 10 47 | 15 17 | 14 48 | 19 41 | 15 2 | 6 28 | 6 28 | 6 28 |
| S 25 | 23 24 | 7 26 | 2 28 | 23 8 | 0s 6 | 18 2 | 2 2 | 4 6 | 1 51 | 20 54 | 0 17 | 3 21 | 2 32 | 22 52 | 0 25 | 10 19 | 1 45 | 20 48 | 10 47 | 15 16 | 14 49 | 19 41 | 15 1 | 6 27 | 6 27 | 6 27 |
| M26 | 23 22 | 3 1 | 3 27 | 23 21 | 0 13 | 17 39 | 2 1 | 4 18 | 1 52 | 20 56 | 0 17 | 3 22 | 2 32 | 22 53 | 0 25 | 10 18 | 1 45 | 20 48 | 10 47 | 15 16 | 14 50 | 19 42 | 15 0 | 6 27 | 6 27 | 6 27 |
| T 27 | 23 21 | 1s24 | 4 14 | 23 34 | 0 20 | 17 16 | 1 59 | 4 29 | 1 52 | 20 57 | 0 17 | 3 22 | 2 32 | 22 53 | 0 25 | 10 18 | 1 45 | 20 49 | 10 48 | 15 16 | 14 51 | 19 42 | 14 59 | 6 27 | 6 27 | 6 27 |
| W28 | 23 18 | 5 39 | 4 47 | 23 45 | 0 26 | 16 52 | 1 57 | 4 41 | 1 52 | 20 59 | 0 17 | 3 23 | 2 32 | 22 53 | 0 25 | 10 18 | 1 45 | 20 49 | 10 48 | 15 17 | 14 52 | 19 42 | 14 59 | 6 27 | 6 27 | 6 27 |
| T 29 | 23 16 | 9 34 | 5 5 | 23 54 | 0 33 | 16 28 | 1 55 | 4 52 | 1 53 | 21 0 | 0 17 | 3 23 | 2 31 | 22 54 | 0 25 | 10 18 | 1 45 | 20 50 | 10 48 | 15 18 | 14 53 | 19 42 | 14 58 | 6 27 | 6 27 | 6 27 |
| F 30 | 23 13 | 13 1 | 5 9 | 24 3 | 0 39 | 16 4 | 1 53 | 5 3 | 1 53 | 21 0 | 0 18 | 3 24 | 2 31 | 22 54 | 0 25 | 10 18 | 1 45 | 20 50 | 10 49 | 15 20 | 14 54 | 19 42 | 14 57 | 6 27 | 6 27 | 6 27 |
| S 31 | 23s 9 | 15s52 | 4n59 | 24s10 | 0s46 | 15s39 | 1s50 | 5s14 | 1n54 | 21n 3 | 0n18 | 3n25 | 2s31 | 22n54 | 0n25 | 10n18 | 1s45 | 20n51 | 10n49 | 15n22 | 14n55 | 19s42 | 14s56 | 6n27 | 6n27 | 6n27 |