

SWISS EPHEMERIS for the year 138 BCE

JANUARY 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|---------|----------|-------|--------|-------|-------|------|--------|-------|-------|-------|--------|-------|------|------|---|---|---|---|---|---|---|---|
| M 1 | 6 26 59 | 7♁52'48 | 16♏6 | 14♁15 | 11♁46 | 26♁10 | 2♁29 | 14♁25 | 9°R 5 | 13♁57 | 22♏19 | 29°R 2 | 27♁46 | 5♏21 | n.a. | | | | | | | | |
| T 2 | 6 30 55 | 8°53'44 | 29°22 | 16° 1 | 13° 1 | 26°57 | 2°43 | 14°27 | 9°R 3 | 13°59 | 22°20 | 29°R 0 | 27°43 | 5°28 | n.a. | | | | | | | | |
| W 3 | 6 34 52 | 9°54'39 | 12♁55 | 17°48 | 14°16 | 27°44 | 2°56 | 14°29 | 9° 1 | 14° 1 | 22°20 | 28°D59 | 27°40 | 5°34 | n.a. | | | | | | | | |
| T 4 | 6 38 49 | 10°55'34 | 26°48 | 19°34 | 15°31 | 28°31 | 3°10 | 14°32 | 8°59 | 14° 3 | 22°21 | 29° 0 | 27°37 | 5°41 | n.a. | | | | | | | | |
| F 5 | 6 42 45 | 11°56'27 | 11♏1 | 21°21 | 16°47 | 29°18 | 3°24 | 14°34 | 8°57 | 14° 6 | 22°22 | 29° 1 | 27°34 | 5°48 | n.a. | | | | | | | | |
| S 6 | 6 46 42 | 12°57'19 | 25°31 | 23° 8 | 18° 2 | 0♁3 | 3°38 | 14°36 | 8°54 | 14° 8 | 22°22 | 29°R 2 | 27°31 | 5°54 | n.a. | | | | | | | | |
| S 7 | 6 50 38 | 13°58'11 | 10♁17 | 24°54 | 19°17 | 0°51 | 3°52 | 14°38 | 8°52 | 14°10 | 22°23 | 29° 2 | 27°27 | 6° 1 | n.a. | | | | | | | | |
| M 8 | 6 54 35 | 14°59'01 | 25°13 | 26°40 | 20°32 | 1°38 | 4° 6 | 14°40 | 8°50 | 14°13 | 22°23 | 28°59 | 27°24 | 6° 8 | n.a. | | | | | | | | |
| T 9 | 6 58 31 | 15°59'50 | 10♁11 | 28°25 | 21°47 | 2°25 | 4°20 | 14°42 | 8°48 | 14°15 | 22°24 | 28°55 | 27°21 | 6°14 | n.a. | | | | | | | | |
| W10 | 7 2 28 | 17° 0'37 | 25° 2 | 0♁10 | 23° 2 | 3°12 | 4°35 | 14°44 | 8°45 | 14°17 | 22°25 | 28°48 | 27°18 | 6°21 | n.a. | | | | | | | | |
| T11 | 7 6 25 | 18° 1'23 | 9♁38 | 1°53 | 24°18 | 3°59 | 4°49 | 14°45 | 8°43 | 14°19 | 22°25 | 28°40 | 27°15 | 6°28 | n.a. | | | | | | | | |
| F12 | 7 10 21 | 19° 2'08 | 23°51 | 3°35 | 25°33 | 4°46 | 5° 3 | 14°47 | 8°40 | 14°22 | 22°26 | 28°31 | 27°12 | 6°34 | n.a. | | | | | | | | |
| S13 | 7 14 18 | 20° 2'50 | 7♏38 | 5°14 | 26°48 | 5°33 | 5°17 | 14°48 | 8°38 | 14°24 | 22°27 | 28°24 | 27° 8 | 6°41 | n.a. | | | | | | | | |
| S14 | 7 18 14 | 21° 3'31 | 20°57 | 6°52 | 28° 3 | 6°20 | 5°31 | 14°50 | 8°36 | 14°26 | 22°28 | 28°17 | 27° 5 | 6°48 | n.a. | | | | | | | | |
| M15 | 7 22 11 | 22° 4'10 | 3♏50 | 8°26 | 29°18 | 7° 7 | 5°46 | 14°51 | 8°33 | 14°29 | 22°28 | 28°13 | 27° 2 | 6°54 | n.a. | | | | | | | | |
| T16 | 7 26 7 | 23° 4'47 | 16°19 | 9°57 | 0♁33 | 7°54 | 6° 0 | 14°52 | 8°31 | 14°31 | 22°29 | 28°12 | 26°59 | 7° 1 | n.a. | | | | | | | | |
| W17 | 7 30 4 | 24° 5'22 | 28°29 | 11°23 | 1°48 | 8°41 | 6°14 | 14°53 | 8°28 | 14°33 | 22°30 | 28°D11 | 26°56 | 7° 8 | n.a. | | | | | | | | |
| T18 | 7 34 0 | 25° 5'56 | 10♁27 | 12°45 | 3° 3 | 9°28 | 6°28 | 14°54 | 8°26 | 14°35 | 22°31 | 28°12 | 26°52 | 7°14 | n.a. | | | | | | | | |
| F19 | 7 37 57 | 26° 6'27 | 22°16 | 14° 1 | 4°18 | 10°15 | 6°43 | 14°55 | 8°23 | 14°38 | 22°32 | 28°R13 | 26°49 | 7°21 | n.a. | | | | | | | | |
| S20 | 7 41 54 | 27° 6'57 | 4♏2 | 15°11 | 5°33 | 11° 2 | 6°57 | 14°55 | 8°20 | 14°40 | 22°33 | 28°13 | 26°46 | 7°28 | n.a. | | | | | | | | |
| S21 | 7 45 50 | 28° 7'24 | 15°50 | 16°14 | 6°48 | 11°49 | 7°12 | 14°56 | 8°18 | 14°42 | 22°33 | 28°11 | 26°43 | 7°34 | n.a. | | | | | | | | |
| M22 | 7 49 47 | 29° 7'50 | 27°44 | 17° 9 | 8° 3 | 12°36 | 7°26 | 14°56 | 8°15 | 14°44 | 22°34 | 28° 7 | 26°40 | 7°41 | n.a. | | | | | | | | |
| T23 | 7 53 43 | 0♁8'14 | 9♁47 | 17°57 | 9°18 | 13°23 | 7°40 | 14°57 | 8°13 | 14°46 | 22°35 | 28° 0 | 26°37 | 7°47 | n.a. | | | | | | | | |
| W24 | 7 57 40 | 1° 8'36 | 22° 2 | 18°35 | 10°32 | 14°10 | 7°55 | 14°57 | 8°10 | 14°49 | 22°36 | 27°51 | 26°33 | 7°54 | n.a. | | | | | | | | |
| T25 | 8 1 36 | 2° 8'56 | 4♏28 | 19° 5 | 11°47 | 14°57 | 8° 9 | 14°57 | 8° 8 | 14°51 | 22°37 | 27°40 | 26°30 | 8° 1 | n.a. | | | | | | | | |
| F26 | 8 5 33 | 3° 9'14 | 17° 8 | 19°25 | 13° 2 | 15°44 | 8°24 | 14°R57 | 8° 5 | 14°53 | 22°38 | 27°27 | 26°27 | 8° 7 | n.a. | | | | | | | | |
| S27 | 8 9 29 | 4° 9'31 | 0♏0 | 19°35 | 14°17 | 16°31 | 8°38 | 14°57 | 8° 2 | 14°55 | 22°39 | 27°16 | 26°24 | 8°14 | n.a. | | | | | | | | |
| S28 | 8 13 26 | 5° 9'46 | 13° 5 | 19°R36 | 15°32 | 17°18 | 8°52 | 14°57 | 8° 0 | 14°57 | 22°40 | 27° 5 | 26°21 | 8°21 | n.a. | | | | | | | | |
| M29 | 8 17 23 | 6° 9'58 | 26°21 | 19°26 | 16°47 | 18° 5 | 9° 7 | 14°57 | 7°57 | 15° 0 | 22°41 | 26°57 | 26°18 | 8°27 | n.a. | | | | | | | | |
| T30 | 8 21 19 | 7°10'10 | 9♁47 | 19° 8 | 18° 1 | 18°52 | 9°21 | 14°57 | 7°55 | 15° 2 | 22°42 | 26°51 | 26°14 | 8°34 | n.a. | | | | | | | | |
| W31 | 8 25 16 | 8♁10'19 | 23♁25 | 18♁40 | 19♁16 | 19♁39 | 9♁36 | 14♁56 | 7♁52 | 15♁4 | 22♏43 | 26♁48 | 26♁11 | 8♏41 | n.a. | | | | | | | | |

Delta T = 03h18m59s Julian Calendar 1 Jan. 138 BCE == Greg. Calendar 29 Dec. 139 BCE
 The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

FEBRUARY 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|----------|----------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| T 1 | 8 29 12 | 9♁10'27 | 7♏15 | 18°R 4 | 20♁31 | 20♁27 | 9♁50 | 14°R56 | 7°R49 | 15♁6 | 22♏44 | 26♁47 | 26♁8 | 8♏47 | n.a. | | | | | | | | |
| F 2 | 8 33 9 | 10°10'34 | 21°16 | 17♁21 | 21°45 | 21°14 | 10° 5 | 14♁55 | 7°R47 | 15° 8 | 22°45 | 26°R47 | 26° 5 | 8°54 | n.a. | | | | | | | | |
| S 3 | 8 37 5 | 11°10'39 | 5♁28 | 16°32 | 23° 0 | 22° 1 | 10°19 | 14°55 | 7°44 | 15°10 | 22°46 | 26°47 | 26° 2 | 9° 1 | n.a. | | | | | | | | |
| S 4 | 8 41 2 | 12°10'42 | 19°51 | 15°38 | 24°15 | 22°48 | 10°34 | 14°54 | 7°41 | 15°12 | 22°48 | 26°46 | 25°58 | 9° 7 | n.a. | | | | | | | | |
| M 5 | 8 44 58 | 13°10'43 | 4♁22 | 14°40 | 25°29 | 23°35 | 10°48 | 14°53 | 7°39 | 15°14 | 22°49 | 26°41 | 25°55 | 9°14 | n.a. | | | | | | | | |
| T 6 | 8 48 55 | 14°10'43 | 18°55 | 13°40 | 26°44 | 24°22 | 11° 3 | 14°52 | 7°36 | 15°16 | 22°50 | 26°34 | 25°52 | 9°21 | n.a. | | | | | | | | |
| W 7 | 8 52 52 | 15°10'41 | 3♁25 | 12°40 | 27°59 | 25° 9 | 11°17 | 14°51 | 7°34 | 15°18 | 22°51 | 26°24 | 25°49 | 9°27 | n.a. | | | | | | | | |
| T 8 | 8 56 48 | 16°10'37 | 17°44 | 11°40 | 29°13 | 25°56 | 11°31 | 14°49 | 7°31 | 15°21 | 22°52 | 26°13 | 25°46 | 9°34 | n.a. | | | | | | | | |
| F 9 | 9 0 45 | 17°10'30 | 1♏48 | 10°42 | 0♏28 | 26°43 | 11°46 | 14°48 | 7°28 | 15°23 | 22°53 | 26° 0 | 25°43 | 9°41 | n.a. | | | | | | | | |
| S10 | 9 4 41 | 18°10'22 | 15°30 | 9°47 | 1°42 | 27°30 | 12° 0 | 14°47 | 7°26 | 15°25 | 22°55 | 25°48 | 25°39 | 9°47 | n.a. | | | | | | | | |
| S11 | 9 8 38 | 19°10'11 | 28°48 | 8°56 | 2°57 | 28°17 | 12°15 | 14°45 | 7°23 | 15°26 | 22°56 | 25°39 | 25°36 | 9°54 | n.a. | | | | | | | | |
| M12 | 9 12 34 | 20° 9'58 | 11♏41 | 8°10 | 4°11 | 29° 4 | 12°29 | 14°44 | 7°21 | 15°28 | 22°57 | 25°31 | 25°33 | 10° 0 | n.a. | | | | | | | | |
| T13 | 9 16 31 | 21° 9'43 | 24°13 | 7°29 | 5°26 | 29°52 | 12°44 | 14°42 | 7°18 | 15°30 | 22°58 | 25°26 | 25°30 | 10° 7 | n.a. | | | | | | | | |
| W14 | 9 20 27 | 22° 9'25 | 6♁26 | 6°54 | 6°40 | 0♁39 | 12°58 | 14°40 | 7°16 | 15°32 | 22°59 | 25°24 | 25°27 | 10°14 | n.a. | | | | | | | | |
| T15 | 9 24 24 | 23° 9'05 | 18°25 | 6°25 | 7°54 | 1°26 | 13°12 | 14°38 | 7°13 | 15°34 | 23° 1 | 25°24 | 25°24 | 10°20 | n.a. | | | | | | | | |
| F16 | 9 28 21 | 24° 8'43 | 0♏15 | 6° 3 | 9° 9 | 2°13 | 13°27 | 14°36 | 7°11 | 15°36 | 23° 2 | 25°24 | 25°20 | 10°27 | n.a. | | | | | | | | |
| S17 | 9 32 17 | 25° 8'18 | 12° 3 | 5°47 | 10°23 | 3° 0 | 13°41 | 14°34 | 7° 8 | 15°38 | 23° 3 | 25°23 | 25°17 | 10°34 | n.a. | | | | | | | | |
| S18 | 9 36 14 | 26° 7'51 | 23°53 | 5°37 | 11°37 | 3°47 | 13°55 | 14°32 | 7° 6 | 15°40 | 23° 4 | 25°21 | 25°14 | 10°40 | n.a. | | | | | | | | |
| M19 | 9 40 10 | 27° 7'21 | 5♁51 | 5°D33 | 12°52 | 4°34 | 14°10 | 14°30 | 7° 3 | 15°42 | 23° 6 | 25°16 | 25°11 | 10°47 | n.a. | | | | | | | | |
| T20 | 9 44 7 | 28° 6'50 | 18° 0 | 5°35 | 14° 6 | 5°21 | 14°24 | 14°27 | 7° 1 | 15°43 | 23° 7 | 25° 9 | 25° 8 | 10°54 | n.a. | | | | | | | | |
| W21 | 9 48 3 | 29° 6'16 | 0♏24 | 5°43 | 15°20 | 6° 8 | 14°38 | 14°25 | 6°59 | 15°45 | 23° 8 | 24°59 | 25° 4 | 11° 0 | n.a. | | | | | | | | |
| T22 | 9 52 0 | 0♏5'39 | 13° 4 | 5°56 | 16°34 | 6°54 | 14°52 | 14°23 | 6°56 | 15°47 | 23°10 | 24°47 | 25° 1 | 11° 7 | n.a. | | | | | | | | |
| F23 | 9 55 56 | 1° 5'01 | 26° 2 | 6°15 | 17°48 | 7°41 | 15° 6 | 14°20 | 6°54 | 15°49 | 23°11 | 24°34 | 24°58 | 11°14 | n.a. | | | | | | | | |
| S24 | 9 59 53 | 2° 4'20 | 9♏16 | 6°38 | 19° 3 | 8°28 | 15°21 | 14°17 | 6°52 | 15°51 | 23°12 | 24°21 | 24°55 | 11°20 | n.a. | | | | | | | | |
| S25 | 10 3 50 | 3° 3'37 | 22°44 | 7° 7 | 20°17 | 9°15 | 15°35 | 14°15 | 6°49 | 15°52 | 23°14 | 24° 9 | 24°52 | 11°27 | n.a. | | | | | | | | |
| M26 | 10 7 46 | 4° 2'52 | 6♁23 | 7°39 | 21°31 | 10° 2 | 15°49 | 14°12 | 6°47 | 15°54 | 23°15 | 24° 0 | 24°49 | 11°34 | n.a. | | | | | | | | |
| T27 | 10 11 43 | 5° 2'04 | 20°12 | 8°16 | 22°45 | 10°49 | 16° 3 | 14° 9 | 6°45 | 15°56 | 23°16 | 23°54 | 24°45 | 11°40 | n.a. | | | | | | | | |
| W28 | 10 15 39 | 6♏1'15 | 4♏17 | 8♁57 | 23♏59 | 11♁36 | 16♁17 | 14♁6 | 6♁43 | 15♁57 | 23♏18 | 23♁50 | 24♁42 | 11♏47 | n.a. | | | | | | | | |

Delta T = 03h18m58s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 138 BCE

MARCH 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|------------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|
| T 1 | 10 19 36 | 7 ^h 02'25" | 18 ^m 07' | 9 ^s 41" | 25 ^h 13' | 12 ^m 23' | 16 ^s 31" | 14 ^h R 3 | 6 ^h R41 | 15 ^h 359 | 23 ^h 19' | 23 ^h 49' | 24 ^h 39' | 11 ^h 54' | n.a. |
| F 2 | 10 23 32 | 7 ^h 59'32" | 2 ^m 10' | 10 ^s 29" | 26 ^h 27' | 13 ^m 09' | 16 ^s 45" | 14 ^h 00' | 6 ^h Ω38 | 16 ^h 00' | 23 ^h 20' | 23 ^h R49 | 24 ^h 36' | 12 ^h 00' | n.a. |
| S 3 | 10 27 29 | 8 ^h 58'38" | 16 ^m 17' | 11 ^s 20" | 27 ^h 41' | 13 ^m 56' | 16 ^s 59" | 13 ^h 56' | 6 ^h 36' | 16 ^h 02' | 23 ^h 22' | 23 ^h 49' | 24 ^h 33' | 12 ^h 07' | n.a. |
| S 4 | 10 31 25 | 9 ^h 57'42" | 0 ^m 325" | 12 ^s 15" | 28 ^h 54' | 14 ^m 43' | 17 ^s 13" | 13 ^h 53' | 6 ^h 34' | 16 ^h 03' | 23 ^h 23' | 23 ^h 48' | 24 ^h 29' | 12 ^h 13' | n.a. |
| M 5 | 10 35 22 | 10 ^h 56'44" | 14 ^m 35' | 13 ^s 12" | 0 ^h Υ 8 | 15 ^m 30' | 17 ^s 27" | 13 ^h 50' | 6 ^h 32' | 16 ^h 05' | 23 ^h 24' | 23 ^h 44' | 24 ^h 26' | 12 ^h 20' | n.a. |
| T 6 | 10 39 19 | 11 ^h 55'44" | 28 ^m 42' | 14 ^s 12" | 1 ^h 22 | 16 ^m 16' | 17 ^s 40" | 13 ^h 46' | 6 ^h 30' | 16 ^h 06' | 23 ^h 26' | 23 ^h 37' | 24 ^h 23' | 12 ^h 27' | n.a. |
| W 7 | 10 43 15 | 12 ^h 54'42" | 12 ^m 45' | 15 ^s 15" | 2 ^h 36 | 17 ^m 03' | 17 ^s 54" | 13 ^h 43' | 6 ^h 28' | 16 ^h 08' | 23 ^h 27' | 23 ^h 28' | 24 ^h 20' | 12 ^h 33' | n.a. |
| T 8 | 10 47 12 | 13 ^h 53'38" | 26 ^m 38' | 16 ^s 20" | 3 ^h 50 | 17 ^m 50' | 18 ^s 08" | 13 ^h 39' | 6 ^h 26' | 16 ^h 09' | 23 ^h 29' | 23 ^h 18' | 24 ^h 17' | 12 ^h 40' | n.a. |
| F 9 | 10 51 08 | 14 ^h 52'32" | 10 ^m 19' | 17 ^s 28" | 5 ^h 03 | 18 ^m 36' | 18 ^s 22" | 13 ^h 36' | 6 ^h 24' | 16 ^h 11' | 23 ^h 30' | 23 ^h 06' | 24 ^h 14' | 12 ^h 47' | n.a. |
| S 10 | 10 55 05 | 15 ^h 51'24" | 23 ^m 43' | 18 ^s 39" | 6 ^h 17 | 19 ^m 23' | 18 ^s 35" | 13 ^h 32' | 6 ^h 23' | 16 ^h 12' | 23 ^h 31' | 22 ^h 55' | 24 ^h 10' | 12 ^h 53' | n.a. |
| S 11 | 10 59 01 | 16 ^h 50'14" | 6 ^m Υ49 | 19 ^s 51" | 7 ^h 31 | 20 ^m 10' | 18 ^s 49" | 13 ^h 28' | 6 ^h 21' | 16 ^h 13' | 23 ^h 33' | 22 ^h 46' | 24 ^h 07' | 13 ^h 00' | n.a. |
| M 12 | 11 02 58 | 17 ^h 49'02" | 19 ^m 35' | 21 ^s 06" | 8 ^h 44 | 20 ^m 56' | 19 ^s 03" | 13 ^h 25' | 6 ^h 19' | 16 ^h 15' | 23 ^h 34' | 22 ^h 39' | 24 ^h 04' | 13 ^h 07' | n.a. |
| T 13 | 11 06 54 | 18 ^h 47'47" | 2 ^m 3 | 22 ^s 22" | 9 ^h 58 | 21 ^m 43' | 19 ^s 16" | 13 ^h 21' | 6 ^h 17' | 16 ^h 16' | 23 ^h 36' | 22 ^h 34' | 24 ^h 01' | 13 ^h 13' | n.a. |
| W 14 | 11 10 51 | 19 ^h 46'30" | 14 ^m 14' | 23 ^s 41" | 11 ^h 11 | 22 ^m 29' | 19 ^s 29" | 13 ^h 17' | 6 ^h 16' | 16 ^h 17' | 23 ^h 37' | 22 ^h 32' | 23 ^h 58' | 13 ^h 20' | n.a. |
| T 15 | 11 14 47 | 20 ^h 45'11" | 26 ^m 13' | 25 ^s 02" | 12 ^h 25 | 23 ^m 16' | 19 ^s 43" | 13 ^h 13' | 6 ^h 14' | 16 ^h 19' | 23 ^h 39' | 22 ^h D32 | 23 ^h 55' | 13 ^h 27' | n.a. |
| F 16 | 11 18 44 | 21 ^h 43'50" | 8 ^m II 5 | 26 ^s 24" | 13 ^h 38 | 24 ^m 02' | 19 ^s 56" | 13 ^h 09' | 6 ^h 12' | 16 ^h 20' | 23 ^h 40' | 22 ^h 33' | 23 ^h 51' | 13 ^h 33' | n.a. |
| S 17 | 11 22 41 | 22 ^h 42'26" | 19 ^m 53' | 27 ^s 49" | 14 ^h 52 | 24 ^m 49' | 20 ^s 10" | 13 ^h 05' | 6 ^h 11' | 16 ^h 21' | 23 ^h 41' | 22 ^h R33 | 23 ^h 48' | 13 ^h 40' | n.a. |
| S 18 | 11 26 37 | 23 ^h 41'01" | 1 ^m 345" | 29 ^s 15" | 16 ^h 05 | 25 ^m 35' | 20 ^s 23" | 13 ^h 01' | 6 ^h 09' | 16 ^h 22' | 23 ^h 43' | 22 ^h 33' | 23 ^h 45' | 13 ^h 47' | n.a. |
| M 19 | 11 30 34 | 24 ^h 39'32" | 13 ^m 44' | 0 ^s 143" | 17 ^h 18 | 26 ^m 21' | 20 ^s 36" | 12 ^h 57' | 6 ^h 08' | 16 ^h 23' | 23 ^h 44' | 22 ^h 31' | 23 ^h 42' | 13 ^h 53' | n.a. |
| T 20 | 11 34 30 | 25 ^h 38'02" | 25 ^m 56' | 2 ^s 13" | 18 ^h 32 | 27 ^m 08' | 20 ^s 49" | 12 ^h 52' | 6 ^h 06' | 16 ^h 24' | 23 ^h 46' | 22 ^h 27' | 23 ^h 39' | 14 ^h 00' | n.a. |
| W 21 | 11 38 27 | 26 ^h 36'29" | 8 ^m Ω25 | 3 ^s 45" | 19 ^h 45 | 27 ^m 54' | 21 ^s 02" | 12 ^h 48' | 6 ^h 05' | 16 ^h 25' | 23 ^h 47' | 22 ^h 20' | 23 ^h 35' | 14 ^h 07' | n.a. |
| T 22 | 11 42 23 | 27 ^h 34'55" | 21 ^m 14' | 5 ^s 18" | 20 ^h 58 | 28 ^m 40' | 21 ^s 15" | 12 ^h 44' | 6 ^h 04' | 16 ^h 26' | 23 ^h 48' | 22 ^h 12' | 23 ^h 32' | 14 ^h 13' | n.a. |
| F 23 | 11 46 20 | 28 ^h 33'18" | 4 ^m η23 | 6 ^s 53" | 22 ^h 11 | 29 ^m 26' | 21 ^s 28" | 12 ^h 40' | 6 ^h 02' | 16 ^h 27' | 23 ^h 50' | 22 ^h 03' | 23 ^h 29' | 14 ^h 20' | n.a. |
| S 24 | 11 50 16 | 29 ^h 31'38" | 17 ^m 54' | 8 ^s 30" | 23 ^h 25 | 0 ^h 12 | 21 ^m 41' | 12 ^s 35" | 6 ^h 01' | 16 ^h 28' | 23 ^h 51' | 21 ^h 54' | 23 ^h 26' | 14 ^h 27' | n.a. |
| S 25 | 11 54 13 | 0 ^h Υ29'57" | 1 ^m 44 | 10 ^s 09" | 24 ^h 38 | 0 ^h 59 | 21 ^m 54' | 12 ^s 31" | 6 ^h 00' | 16 ^h 29' | 23 ^h 53' | 21 ^h 46' | 23 ^h 23' | 14 ^h 33' | n.a. |
| M 26 | 11 58 10 | 1 ^h 28'14" | 15 ^m 48' | 11 ^s 49" | 25 ^h 51 | 1 ^m 45 | 22 ^m 07' | 12 ^s 27" | 5 ^h 59' | 16 ^h 30' | 23 ^h 54' | 21 ^h 40' | 23 ^h 20' | 14 ^h 40' | n.a. |
| T 27 | 12 02 06 | 2 ^h 26'29" | 0 ^m 11 | 13 ^s 31" | 27 ^h 04 | 2 ^m 31 | 22 ^m 19' | 12 ^s 22" | 5 ^h 58' | 16 ^h 31' | 23 ^h 55' | 21 ^h 36' | 23 ^h 16' | 14 ^h 46' | n.a. |
| W 28 | 12 06 03 | 3 ^h 24'43" | 14 ^m 23' | 15 ^s 15" | 28 ^h 17 | 3 ^m 17 | 22 ^m 32' | 12 ^s 18" | 5 ^h 57' | 16 ^h 32' | 23 ^h 57' | 21 ^h 34' | 23 ^h 13' | 14 ^h 53' | n.a. |
| T 29 | 12 09 59 | 4 ^h 22'55" | 28 ^m 44' | 17 ^s 00" | 29 ^h 30 | 4 ^m 03 | 22 ^m 45' | 12 ^s 14" | 5 ^h 56' | 16 ^h 33' | 23 ^h 58' | 21 ^h D34 | 23 ^h 10' | 15 ^h 00' | n.a. |
| F 30 | 12 13 56 | 5 ^h 21'05" | 13 ^m 17' | 18 ^s 48" | 0 ^h 842 | 4 ^m 49 | 22 ^m 57' | 12 ^s 09" | 5 ^h 55' | 16 ^h 34' | 24 ^h 00' | 21 ^h 35' | 23 ^h 07' | 15 ^h 06' | n.a. |
| S 31 | 12 17 52 | 6 ^h Υ19'14" | 27 ^m 16' | 20 ^s 137" | 1 ^h 855 | 5 ^m 135 | 23 ^m 9' | 12 ^s 05" | 5 ^h 54' | 16 ^h 34' | 24 ^h 01' | 21 ^h 36' | 23 ^h 04' | 15 ^h 13' | n.a. |

Delta T = 03h18m57s Julian Calendar 1 March 138 BCE == Greg. Calendar 26 Feb. 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

APRIL 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | |
|------|----------|------------------------|----------------------|----------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|------|
| S 1 | 12 21 49 | 7 ^h Υ17'21" | 11 ^m 323" | 22 ^s 117" | 22 ^h 11' | 3 ^m 8 | 6 ^h 120 | 23 ^m 22' | 12 ^s R 0 | 5 ^h R53 | 16 ^h 35' | 24 ^h 11' | 21 ^h R36 | 23 ^h 01' | 15 ^h II20 | n.a. |
| M 2 | 12 25 45 | 8 ^h 15'27" | 25 ^m 22' | 24 ^s 20" | 4 ^h 21 | 7 ^m 06 | 23 ^m 34' | 11 ^s 56" | 5 ^h Ω52 | 16 ^h 36' | 24 ^h 04' | 21 ^h 35' | 22 ^h 57' | 15 ^h 26' | n.a. | |
| T 3 | 12 29 42 | 9 ^h 13'31" | 9 ^m 12 | 26 ^s 14" | 5 ^h 34 | 7 ^m 52 | 23 ^m 46' | 11 ^s 51" | 5 ^h 51' | 16 ^h 36' | 24 ^h 05' | 21 ^h 32' | 22 ^h 54' | 15 ^h 33' | n.a. | |
| W 4 | 12 33 39 | 10 ^h 11'34" | 22 ^m 51' | 28 ^s 10" | 6 ^h 46 | 8 ^m 38 | 23 ^m 58' | 11 ^s 47" | 5 ^h 51' | 16 ^h 37' | 24 ^h 07' | 21 ^h 27' | 22 ^h 51' | 15 ^h 40' | n.a. | |
| T 5 | 12 37 35 | 11 ^h 09'35" | 6 ^m 19 | 0 ^s Υ 8 | 7 ^h 59 | 9 ^m 24 | 24 ^m 10' | 11 ^s 42" | 5 ^h 50' | 16 ^h 38' | 24 ^h 08' | 21 ^h 21' | 22 ^h 48' | 15 ^h 46' | n.a. | |
| F 6 | 12 41 32 | 12 ^h 07'35" | 19 ^m 34' | 2 ^s 07" | 9 ^h 12 | 10 ^m 09 | 24 ^m 22' | 11 ^s 38" | 5 ^h 49' | 16 ^h 38' | 24 ^h 09' | 21 ^h 14' | 22 ^h 45' | 15 ^h 53' | n.a. | |
| S 7 | 12 45 28 | 13 ^h 05'33" | 2 ^m Υ35 | 4 ^s 08" | 10 ^h 24 | 10 ^m 55 | 24 ^m 34' | 11 ^s 33" | 5 ^h 49' | 16 ^h 39' | 24 ^h 11' | 21 ^h 08' | 22 ^h 41' | 16 ^h 00' | n.a. | |
| S 8 | 12 49 25 | 14 ^h 03'29" | 15 ^m 22' | 6 ^s 11" | 11 ^h 37 | 11 ^m 40 | 24 ^m 46' | 11 ^s 29" | 5 ^h 48' | 16 ^h 39' | 24 ^h 12' | 21 ^h 02' | 22 ^h 38' | 16 ^h 06' | n.a. | |
| M 9 | 12 53 21 | 15 ^h 01'24" | 27 ^m 53' | 8 ^s 15" | 12 ^h 49 | 12 ^m 26 | 24 ^m 58' | 11 ^s 24" | 5 ^h 48' | 16 ^h 40' | 24 ^h 13' | 20 ^h 58' | 22 ^h 35' | 16 ^h 13' | n.a. | |
| T 10 | 12 57 18 | 15 ^h 59'17" | 10 ^m 111" | 10 ^s 21" | 14 ^h 02 | 13 ^m 11 | 25 ^m 09' | 11 ^s 20" | 5 ^h 47' | 16 ^h 40' | 24 ^h 15' | 20 ^h 56' | 22 ^h 32' | 16 ^h 20' | n.a. | |
| W 11 | 13 01 14 | 16 ^h 57'08" | 22 ^m 17' | 12 ^s 28" | 15 ^h 14 | 13 ^m 57 | 25 ^m 21' | 11 ^s 15" | 5 ^h 47' | 16 ^h 41' | 24 ^h 16' | 20 ^h D56 | 22 ^h 29' | 16 ^h 26' | n.a. | |
| T 12 | 13 05 11 | 17 ^h 54'58" | 4 ^m II13 | 14 ^s 36" | 16 ^h 26 | 14 ^m 42 | 25 ^m 32' | 11 ^s 11" | 5 ^h 47' | 16 ^h 41' | 24 ^h 17' | 20 ^h 56' | 22 ^h 26' | 16 ^h 33' | n.a. | |
| F 13 | 13 09 08 | 18 ^h 52'46" | 16 ^m 03' | 16 ^s 45" | 17 ^h 39 | 15 ^m 28 | 25 ^m 44' | 11 ^s 06" | 5 ^h 47' | 16 ^h 41' | 24 ^h 19' | 20 ^h 58' | 22 ^h 22' | 16 ^h 40' | n.a. | |
| S 14 | 13 13 04 | 19 ^h 50'33" | 27 ^m 52' | 18 ^s 55" | 18 ^h 51 | 16 ^m 13 | 25 ^m 55' | 11 ^s 02" | 5 ^h 46' | 16 ^h 42' | 24 ^h 20' | 21 ^h 00' | 22 ^h 19' | 16 ^h 46' | n.a. | |
| S 15 | 13 17 01 | 20 ^h 48'17" | 9 ^m 343" | 21 ^s 05" | 20 ^h 03 | 16 ^m 58 | 26 ^m 06' | 10 ^s 58" | 5 ^h 46' | 16 ^h 42' | 24 ^h 21' | 21 ^h 01' | 22 ^h 16' | 16 ^h 53' | n.a. | |
| M 16 | 13 20 57 | 21 ^h 46'00" | 21 ^m 42 | 23 ^s 16" | 21 ^h 15 | 17 ^m 43 | 26 ^m 17' | 10 ^s 53" | 5 ^h 46' | 16 ^h 42' | 24 ^h 22' | 21 ^h R 2 | 22 ^h 13' | 17 ^h 00' | n.a. | |
| T 17 | 13 24 54 | 22 ^h 43'41" | 3 ^m Ω54 | 25 ^s 27" | 22 ^h 27 | 18 ^m 29 | 26 ^m 28' | 10 ^s 49" | 5 ^h D46 | 16 ^h 42' | 24 ^h 24' | 21 ^h 01' | 22 ^h 10' | 17 ^h 06' | n.a. | |
| W 18 | 13 28 50 | 23 ^h 41'20" | 16 ^m 23' | 27 ^s 37" | 23 ^h 39 | 19 ^m 14 | 26 ^m 39' | 10 ^s 45" | 5 ^h 46' | 16 ^h 42' | 24 ^h 25' | 20 ^h 59' | 22 ^h 06' | 17 ^h 13' | n.a. | |
| T 19 | 13 32 47 | 24 ^h 38'58" | 29 ^m 13' | | | | | | | | | | | | | |

SWISS EPHEMERIS for the year 138 BCE

MAY 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|--------|-------|--------|-------|-------|------|--------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| T 1 | 14 20 6 | 6♄ 8'49 | 19♌48 | 23♄48 | 9♁10 | 28♄55 | 28♌51 | 9°R52 | 5♄52 | 16°R42 | 24♄40 | 20°R46 | 21♄25 | 18♁40 | n.a. | | | | | | | | |
| W 2 | 14 24 2 | 7° 6'12 | 3♄14 | 25°33 | 10°22 | 29°39 | 29° 0 | 9♄48 | 5°52 | 16♄41 | 24°42 | 20♄45 | 21°22 | 18°46 | n.a. | | | | | | | | |
| T 3 | 14 27 59 | 8° 3'34 | 16°23 | 27°15 | 11°33 | 0♄24 | 29° 9 | 9°44 | 5°53 | 16°41 | 24°43 | 20°43 | 21°19 | 18°53 | n.a. | | | | | | | | |
| F 4 | 14 31 55 | 9° 0'56 | 29°17 | 28°54 | 12°44 | 1° 8 | 29°18 | 9°40 | 5°54 | 16°41 | 24°44 | 20°42 | 21°16 | 19° 0 | n.a. | | | | | | | | |
| S 5 | 14 35 52 | 9°58'16 | 11♄57 | 0♁30 | 13°55 | 1°52 | 29°27 | 9°37 | 5°55 | 16°40 | 24°45 | 20°40 | 21°12 | 19° 6 | n.a. | | | | | | | | |
| S 6 | 14 39 48 | 10°55'37 | 24°24 | 2° 4 | 15° 6 | 2°36 | 29°36 | 9°33 | 5°56 | 16°40 | 24°46 | 20°39 | 21° 9 | 19°13 | n.a. | | | | | | | | |
| M 7 | 14 43 45 | 11°52'56 | 6♄39 | 3°34 | 16°17 | 3°20 | 29°45 | 9°30 | 5°57 | 16°39 | 24°47 | 20°38 | 21° 6 | 19°20 | n.a. | | | | | | | | |
| T 8 | 14 47 41 | 12°50'14 | 18°45 | 5° 2 | 17°28 | 4° 4 | 29°54 | 9°27 | 5°58 | 16°39 | 24°48 | 20°D38 | 21° 3 | 19°26 | n.a. | | | | | | | | |
| W 9 | 14 51 38 | 13°47'32 | 0♁43 | 6°27 | 18°39 | 4°48 | 0♄2 | 9°23 | 5°59 | 16°39 | 24°49 | 20°38 | 21° 0 | 19°33 | n.a. | | | | | | | | |
| T 10 | 14 55 35 | 14°44'49 | 12°34 | 7°48 | 19°49 | 5°32 | 0°10 | 9°20 | 6° 0 | 16°38 | 24°50 | 20°38 | 20°57 | 19°40 | n.a. | | | | | | | | |
| F 11 | 14 59 31 | 15°42'05 | 24°23 | 9° 7 | 21° 0 | 6°16 | 0°19 | 9°17 | 6° 2 | 16°37 | 24°51 | 20°39 | 20°53 | 19°46 | n.a. | | | | | | | | |
| S 12 | 15 3 28 | 16°39'20 | 6♄12 | 10°23 | 22°11 | 7° 0 | 0°27 | 9°14 | 6° 3 | 16°37 | 24°52 | 20°40 | 20°50 | 19°53 | n.a. | | | | | | | | |
| S 13 | 15 7 24 | 17°36'34 | 18° 4 | 11°35 | 23°21 | 7°44 | 0°34 | 9°11 | 6° 4 | 16°36 | 24°53 | 20°40 | 20°47 | 20° 0 | n.a. | | | | | | | | |
| M14 | 15 11 21 | 18°33'47 | 0♁3 | 12°45 | 24°32 | 8°27 | 0°42 | 9° 8 | 6° 6 | 16°36 | 24°54 | 20°40 | 20°44 | 20° 6 | n.a. | | | | | | | | |
| T 15 | 15 15 17 | 19°31'00 | 12°14 | 13°51 | 25°42 | 9°11 | 0°50 | 9° 5 | 6° 7 | 16°35 | 24°55 | 20°40 | 20°41 | 20°13 | n.a. | | | | | | | | |
| W16 | 15 19 14 | 20°28'11 | 24°40 | 14°54 | 26°52 | 9°54 | 0°57 | 9° 2 | 6° 9 | 16°34 | 24°55 | 20°40 | 20°38 | 20°19 | n.a. | | | | | | | | |
| T 17 | 15 23 10 | 21°25'22 | 7♄27 | 15°53 | 28° 2 | 10°38 | 1° 5 | 8°59 | 6°10 | 16°33 | 24°56 | 20°40 | 20°34 | 20°26 | n.a. | | | | | | | | |
| F 18 | 15 27 7 | 22°22'32 | 20°37 | 16°49 | 29°13 | 11°21 | 1°12 | 8°57 | 6°12 | 16°33 | 24°57 | 20°40 | 20°31 | 20°33 | n.a. | | | | | | | | |
| S 19 | 15 31 4 | 23°19'41 | 4♄13 | 17°41 | 0♄23 | 12° 4 | 1°19 | 8°54 | 6°13 | 16°32 | 24°58 | 20°41 | 20°28 | 20°39 | n.a. | | | | | | | | |
| S 20 | 15 35 0 | 24°16'49 | 18°16 | 18°30 | 1°33 | 12°48 | 1°26 | 8°51 | 6°15 | 16°31 | 24°59 | 20°41 | 20°25 | 20°46 | n.a. | | | | | | | | |
| M21 | 15 38 57 | 25°13'57 | 2♁43 | 19°15 | 2°43 | 13°31 | 1°33 | 8°49 | 6°17 | 16°30 | 25° 0 | 20°41 | 20°22 | 20°53 | n.a. | | | | | | | | |
| T 22 | 15 42 53 | 26°11'04 | 17°31 | 19°56 | 3°52 | 14°14 | 1°39 | 8°47 | 6°19 | 16°29 | 25° 0 | 20°R41 | 20°18 | 20°59 | n.a. | | | | | | | | |
| W23 | 15 46 50 | 27° 8'11 | 2♄32 | 20°33 | 5° 2 | 14°57 | 1°46 | 8°44 | 6°20 | 16°29 | 25° 1 | 20°41 | 20°15 | 21° 6 | n.a. | | | | | | | | |
| T 24 | 15 50 46 | 28° 5'18 | 17°38 | 21° 7 | 6°12 | 15°40 | 1°52 | 8°42 | 6°22 | 16°28 | 25° 2 | 20°41 | 20°12 | 21°13 | n.a. | | | | | | | | |
| F 25 | 15 54 43 | 29° 2'24 | 2♄41 | 21°35 | 7°21 | 16°23 | 1°58 | 8°40 | 6°24 | 16°27 | 25° 3 | 20°40 | 20° 9 | 21°19 | n.a. | | | | | | | | |
| S 26 | 15 58 39 | 29°59'31 | 17°32 | 22° 0 | 8°31 | 17° 6 | 2° 4 | 8°38 | 6°26 | 16°26 | 25° 3 | 20°39 | 20° 6 | 21°26 | n.a. | | | | | | | | |
| S 27 | 16 2 36 | 0♁56'37 | 2♄4 | 22°20 | 9°40 | 17°49 | 2°10 | 8°36 | 6°28 | 16°25 | 25° 4 | 20°38 | 20° 3 | 21°33 | n.a. | | | | | | | | |
| M28 | 16 6 33 | 1°53'44 | 16°14 | 22°36 | 10°49 | 18°31 | 2°15 | 8°35 | 6°30 | 16°24 | 25° 5 | 20°37 | 19°59 | 21°39 | n.a. | | | | | | | | |
| T 29 | 16 10 29 | 2°50'50 | 29°59 | 22°47 | 11°59 | 19°14 | 2°21 | 8°33 | 6°32 | 16°23 | 25° 5 | 20°D37 | 19°56 | 21°46 | n.a. | | | | | | | | |
| W30 | 16 14 26 | 3°47'57 | 13♄21 | 22°54 | 13° 8 | 19°57 | 2°26 | 8°31 | 6°34 | 16°22 | 25° 6 | 20°37 | 19°53 | 21°53 | n.a. | | | | | | | | |
| T 31 | 16 18 22 | 4♁45'04 | 26♄21 | 22°R56 | 14♄17 | 20°Y39 | 2♄31 | 8♄30 | 6♄37 | 16♄20 | 25♄7 | 20♄38 | 19♄50 | 21♁59 | n.a. | | | | | | | | |

Delta T = 03h18m55s Julian Calendar 1 May 138 BCE == Greg. Calendar 28 Apr. 138 BCE
 The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

JUNE 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|--------|-------|--------|-------|-------|------|--------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| F 1 | 16 22 19 | 5♁42'11 | 9♄ 2 | 22°R53 | 15♄25 | 21°Y22 | 2♄36 | 8°R28 | 6♄39 | 16°R19 | 25♄7 | 20♄39 | 19♄47 | 22♁6 | n.a. | | | | | | | | |
| S 2 | 16 26 15 | 6°39'18 | 21°27 | 22♁46 | 16°34 | 22° 4 | 2°41 | 8♄27 | 6°41 | 16♄18 | 25° 8 | 20°40 | 19°44 | 22°13 | n.a. | | | | | | | | |
| S 3 | 16 30 12 | 7°36'25 | 3♄39 | 22°35 | 17°43 | 22°46 | 2°46 | 8°25 | 6°43 | 16°17 | 25° 8 | 20°41 | 19°40 | 22°20 | n.a. | | | | | | | | |
| M 4 | 16 34 8 | 8°33'33 | 15°42 | 22°19 | 18°52 | 23°29 | 2°50 | 8°24 | 6°46 | 16°16 | 25° 9 | 20°R42 | 19°37 | 22°26 | n.a. | | | | | | | | |
| T 5 | 16 38 5 | 9°30'41 | 27°37 | 21°59 | 20° 0 | 24°11 | 2°54 | 8°23 | 6°48 | 16°15 | 25° 9 | 20°42 | 19°34 | 22°33 | n.a. | | | | | | | | |
| W 6 | 16 42 2 | 10°27'49 | 9♁29 | 21°35 | 21° 8 | 24°53 | 2°58 | 8°22 | 6°51 | 16°13 | 25°10 | 20°41 | 19°31 | 22°40 | n.a. | | | | | | | | |
| T 7 | 16 45 58 | 11°24'57 | 21°17 | 21° 7 | 22°17 | 25°35 | 3° 2 | 8°21 | 6°53 | 16°12 | 25°10 | 20°39 | 19°28 | 22°46 | n.a. | | | | | | | | |
| F 8 | 16 49 55 | 12°22'06 | 3♄6 | 20°37 | 23°25 | 26°17 | 3° 6 | 8°21 | 6°56 | 16°11 | 25°11 | 20°36 | 19°24 | 22°53 | n.a. | | | | | | | | |
| S 9 | 16 53 51 | 13°19'14 | 14°57 | 20° 3 | 24°33 | 26°59 | 3°10 | 8°20 | 6°58 | 16°10 | 25°11 | 20°32 | 19°21 | 23° 0 | n.a. | | | | | | | | |
| S 10 | 16 57 48 | 14°16'23 | 26°51 | 19°28 | 25°41 | 27°41 | 3°13 | 8°19 | 7° 1 | 16° 8 | 25°12 | 20°29 | 19°18 | 23° 6 | n.a. | | | | | | | | |
| M11 | 17 1 44 | 15°13'32 | 8♁54 | 18°50 | 26°49 | 28°22 | 3°16 | 8°19 | 7° 3 | 16° 7 | 25°12 | 20°25 | 19°15 | 23°13 | n.a. | | | | | | | | |
| T 12 | 17 5 41 | 16°10'41 | 21° 6 | 18°12 | 27°56 | 29° 4 | 3°19 | 8°18 | 7° 6 | 16° 6 | 25°12 | 20°22 | 19°12 | 23°20 | n.a. | | | | | | | | |
| W13 | 17 9 37 | 17° 7'49 | 3♁32 | 17°33 | 29° 4 | 29°46 | 3°22 | 8°18 | 7° 9 | 16° 4 | 25°13 | 20°20 | 19° 9 | 23°26 | n.a. | | | | | | | | |
| T 14 | 17 13 34 | 18° 4'58 | 16°16 | 16°55 | 0♁11 | 0♄27 | 3°25 | 8°18 | 7°11 | 16° 3 | 25°13 | 20°D19 | 19° 5 | 23°33 | n.a. | | | | | | | | |
| F 15 | 17 17 31 | 19° 2'07 | 29°20 | 16°17 | 1°18 | 1° 9 | 3°27 | 8°18 | 7°14 | 16° 1 | 25°13 | 20°20 | 19° 2 | 23°40 | n.a. | | | | | | | | |
| S 16 | 17 21 27 | 19°59'17 | 12♄49 | 15°41 | 2°25 | 1°50 | 3°29 | 8°D18 | 7°17 | 16° 0 | 25°14 | 20°21 | 18°59 | 23°46 | n.a. | | | | | | | | |
| S 17 | 17 25 24 | 20°56'26 | 26°43 | 15° 7 | 3°32 | 2°31 | 3°31 | 8°18 | 7°20 | 15°59 | 25°14 | 20°22 | 18°56 | 23°53 | n.a. | | | | | | | | |
| M18 | 17 29 20 | 21°53'36 | 11♁4 | 14°36 | 4°39 | 3°12 | 3°33 | 8°18 | 7°23 | 15°57 | 25°14 | 20°23 | 18°53 | 24° 0 | n.a. | | | | | | | | |
| T 19 | 17 33 17 | 22°50'46 | 25°48 | 14° 9 | 5°46 | 3°54 | 3°35 | 8°18 | 7°26 | 15°56 | 25°15 | 20°R24 | 18°49 | 24° 6 | n.a. | | | | | | | | |
| W20 | 17 37 13 | 23°47'56 | 10♄51 | 13°45 | 6°52 | 4°35 | 3°36 | 8°19 | 7°29 | 15°54 | 25°15 | 20°22 | 18°46 | 24°13 | n.a. | | | | | | | | |
| T 21 | 17 41 10 | 24°45'08 | 26° 5 | 13°26 | 7°59 | 5°16 | 3°38 | 8°19 | 7°32 | 15°53 | 25°15 | 20°19 | 18°43 | 24°20 | n.a. | | | | | | | | |
| F 22 | 17 45 6 | 25°42'20 | 11♄20 | 13°12 | 9° 5 | 5°57 | 3°39 | 8°20 | 7°35 | 15°51 | 25°15 | 20°15 | 18°40 | 24°26 | n.a. | | | | | | | | |
| S 23 | 17 49 3 | 26°39'32 | 26°24 | 13° 3 | 10°11 | 6°37 | 3°40 | 8°20 | 7°38 | 15°50 | 25°15 | 20°10 | 18°37 | 24°33 | n.a. | | | | | | | | |
| S 24 | 17 53 0 | 27°36'46 | 11♁11 | 12°D59 | 11°17 | 7°18 | 3°40 | 8°21 | 7°41 | 15°48 | 25°15 | 20° 5 | 18°34 | 24°40 | n.a. | | | | | | | | |
| M25 | 17 56 56 | 28°34'00 | 25°32 | 13° 1 | 12°22 | 7°59 | 3°41 | 8°22 | 7°44 | 15°47 | 25°15 | 20° 0 | 18°30 | 24°46 | n.a. | | | | | | | | |
| T 26 | 18 0 53 | 29°31'15 | 9♄25 | 13° 9 | 13°28 | 8°39 | 3°41 | 8°23 | 7°47 | 15°45 | 25°16 | 19°57 | 18°27 | 24°53 | n.a. | | | | | | | | |
| W27 | 18 4 49 | 0♄28'31 | 22°50 | 13°23 | 14°33 | 9°20 | 3°R41 | 8°24 | 7°50 | 15°44 | 25°16 | 19°55 | 18°24 | 25° 0 | n.a. | | | | | | | | |
| T 28 | 18 8 46 | 1°25'49 | 5♄49 | 13°43 | 15°38 | 10° 0 | 3°41 | 8°25 | 7°53 | 15°42 | 25°16 | 19°D55 | 18°21 | 25° 6 | n.a. | | | | | | | | |
| F 29 | 18 12 42 | 2°23'07 | 18°25 | 14° 9 | 16°43 | 10°41 | 3°41 | 8°26 | 7°56 | 15°41 | 25°R16 | 19°56 | 18°18 | 25°13 | n.a. | | | | | | | | |
| S 30 | 18 16 39 | 3♄20'27 | 0♄44 | 14♁41 | 17♁48 | 11♄21 | 3♄41 | 8♄27 | 8♁0 | 15♄39 | 25♄16 | 19♄58 | 18♄15 | 25♁20 | n.a. | | | | | | | | |

Delta T = 03h18m54s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 138 BCE

JULY 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | |
|------|----------|----------|----------|-------|-------|-------|-------|------|------|--------|--------|--------|-------|-------|-------|------|---|---|---|---|---|---|---|--|
| S 1 | 18 20 36 | 4♄17'48 | 12♂48 | 15♂19 | 18♂52 | 12♂ 1 | 3°R40 | 8♂29 | 8♂ 3 | 15°R37 | 25°R16 | 19♂59 | 18♂11 | 25♂26 | n.a. | | | | | | | | | |
| M 2 | 18 24 32 | 5°15'10 | 24°43 | 16° 3 | 19°57 | 12°41 | 3♂39 | 8°30 | 8° 6 | 15♂36 | 25♂16 | 19°R59 | 18° 8 | 25°33 | n.a. | | | | | | | | | |
| T 3 | 18 28 29 | 6°12'34 | 6♂33 | 16°53 | 21° 1 | 13°21 | 3°38 | 8°32 | 8° 9 | 15°34 | 25°15 | 19°57 | 18° 5 | 25°40 | n.a. | | | | | | | | | |
| W 4 | 18 32 25 | 7° 9'58 | 18°21 | 17°48 | 22° 5 | 14° 1 | 3°37 | 8°34 | 8°13 | 15°33 | 25°15 | 19°54 | 18° 2 | 25°46 | n.a. | | | | | | | | | |
| T 5 | 18 36 22 | 8° 7'24 | 0♄10 | 18°50 | 23° 8 | 14°41 | 3°35 | 8°35 | 8°16 | 15°31 | 25°15 | 19°48 | 17°59 | 25°53 | n.a. | | | | | | | | | |
| F 6 | 18 40 18 | 9° 4'51 | 13°52'20 | 13° 1 | 19°57 | 24°12 | 15°21 | 3°34 | 8°37 | 8°20 | 15°29 | 25°15 | 19°40 | 17°56 | 26° 0 | n.a. | | | | | | | | |
| S 7 | 18 44 15 | 10° 2'18 | 23°57 | 21°10 | 25°15 | 16° 1 | 3°32 | 8°39 | 8°23 | 15°28 | 25°15 | 19°31 | 17°52 | 26° 6 | n.a. | | | | | | | | | |
| S 8 | 18 48 11 | 10°59'47 | 5♂59 | 22°28 | 26°18 | 16°40 | 3°30 | 8°41 | 8°26 | 15°26 | 25°15 | 19°22 | 17°49 | 26°13 | n.a. | | | | | | | | | |
| M 9 | 18 52 8 | 11°57'17 | 18° 9 | 23°51 | 27°21 | 17°20 | 3°28 | 8°44 | 8°30 | 15°24 | 25°15 | 19°12 | 17°46 | 26°20 | n.a. | | | | | | | | | |
| T 10 | 18 56 5 | 12°54'48 | 0♂29 | 25°19 | 28°23 | 17°59 | 3°25 | 8°46 | 8°33 | 15°23 | 25°14 | 19° 4 | 17°43 | 26°26 | n.a. | | | | | | | | | |
| W11 | 19 0 1 | 13°52'20 | 13° 0 | 26°52 | 29°25 | 18°39 | 3°23 | 8°48 | 8°37 | 15°21 | 25°14 | 18°58 | 17°40 | 26°33 | n.a. | | | | | | | | | |
| T 12 | 19 3 58 | 14°49'53 | 25°45 | 28°29 | 0♂27 | 19°18 | 3°20 | 8°51 | 8°40 | 15°20 | 25°14 | 18°54 | 17°36 | 26°40 | n.a. | | | | | | | | | |
| F 13 | 19 7 54 | 15°47'27 | 8♂48 | 0♄10 | 1°29 | 19°57 | 3°17 | 8°53 | 8°44 | 15°18 | 25°14 | 18°52 | 17°33 | 26°46 | n.a. | | | | | | | | | |
| S 14 | 19 11 51 | 16°45'02 | 22°10 | 1°55 | 2°30 | 20°36 | 3°14 | 8°56 | 8°47 | 15°16 | 25°13 | 18°D52 | 17°30 | 26°53 | n.a. | | | | | | | | | |
| S 15 | 19 15 47 | 17°42'38 | 5♂54 | 3°43 | 3°31 | 21°15 | 3°10 | 8°58 | 8°51 | 15°15 | 25°13 | 18°53 | 17°27 | 27° 0 | n.a. | | | | | | | | | |
| M16 | 19 19 44 | 18°40'15 | 20° 2 | 5°34 | 4°32 | 21°54 | 3° 7 | 9° 1 | 8°55 | 15°13 | 25°13 | 18°R53 | 17°24 | 27° 6 | n.a. | | | | | | | | | |
| T 17 | 19 23 40 | 19°37'53 | 4♂34 | 7°27 | 5°32 | 22°33 | 3° 3 | 9° 4 | 8°58 | 15°11 | 25°12 | 18°52 | 17°21 | 27°13 | n.a. | | | | | | | | | |
| W18 | 19 27 37 | 20°35'33 | 19°25 | 9°23 | 6°32 | 23°11 | 2°59 | 9° 7 | 9° 2 | 15°10 | 25°12 | 18°49 | 17°17 | 27°20 | n.a. | | | | | | | | | |
| T 19 | 19 31 34 | 21°33'14 | 4♂30 | 11°20 | 7°32 | 23°50 | 2°55 | 9°10 | 9° 5 | 15° 8 | 25°11 | 18°44 | 17°14 | 27°27 | n.a. | | | | | | | | | |
| F 20 | 19 35 30 | 22°30'56 | 19°41 | 13°19 | 8°31 | 24°28 | 2°51 | 9°13 | 9° 9 | 15° 7 | 25°11 | 18°36 | 17°11 | 27°33 | n.a. | | | | | | | | | |
| S 21 | 19 39 27 | 23°28'40 | 4♂46 | 15°18 | 9°30 | 25° 7 | 2°46 | 9°17 | 9°13 | 15° 5 | 25°11 | 18°27 | 17° 8 | 27°40 | n.a. | | | | | | | | | |
| S 22 | 19 43 23 | 24°26'25 | 19°37 | 17°19 | 10°29 | 25°45 | 2°42 | 9°20 | 9°16 | 15° 3 | 25°10 | 18°17 | 17° 5 | 27°47 | n.a. | | | | | | | | | |
| M23 | 19 47 20 | 25°24'12 | 4♂ 5 | 19°19 | 11°27 | 26°23 | 2°37 | 9°23 | 9°20 | 15° 2 | 25°10 | 18° 8 | 17° 2 | 27°53 | n.a. | | | | | | | | | |
| T 24 | 19 51 16 | 26°22'00 | 18° 5 | 21°20 | 12°25 | 27° 1 | 2°32 | 9°27 | 9°24 | 15° 0 | 25° 9 | 18° 1 | 16°58 | 28° 0 | n.a. | | | | | | | | | |
| W25 | 19 55 13 | 27°19'50 | 1♀35 | 23°20 | 13°22 | 27°39 | 2°27 | 9°30 | 9°27 | 14°59 | 25° 9 | 17°56 | 16°55 | 28° 7 | n.a. | | | | | | | | | |
| T 26 | 19 59 9 | 28°17'42 | 14°37 | 25°21 | 14°19 | 28°17 | 2°22 | 9°34 | 9°31 | 14°57 | 25° 8 | 17°53 | 16°52 | 28°13 | n.a. | | | | | | | | | |
| F 27 | 20 3 6 | 29°15'36 | 27°14 | 27°20 | 15°15 | 28°55 | 2°16 | 9°38 | 9°35 | 14°55 | 25° 8 | 17°D52 | 16°49 | 28°20 | n.a. | | | | | | | | | |
| S 28 | 20 7 3 | 0♄13'32 | 9♂31 | 29°19 | 16°11 | 29°33 | 2°11 | 9°41 | 9°38 | 14°54 | 25° 7 | 17°53 | 16°46 | 28°27 | n.a. | | | | | | | | | |
| S 29 | 20 10 59 | 1°11'30 | 21°34 | 1♂17 | 17° 7 | 0♂11 | 2° 5 | 9°45 | 9°42 | 14°52 | 25° 6 | 17°R53 | 16°42 | 28°33 | n.a. | | | | | | | | | |
| M30 | 20 14 56 | 2° 9'30 | 3♂27 | 3°14 | 18° 2 | 0°48 | 1°59 | 9°49 | 9°46 | 14°51 | 25° 6 | 17°52 | 16°39 | 28°40 | n.a. | | | | | | | | | |
| T 31 | 20 18 52 | 3♂ 7'32 | 15♂15 | 5♂10 | 18♂57 | 1♂25 | 1♂53 | 9♂53 | 9♂50 | 14♂49 | 25♂ 5 | 17♂49 | 16♂36 | 28♂47 | n.a. | | | | | | | | | |

Delta T = 03h18m53s Julian Calendar 1 July 138 BCE == Greg. Calendar 28 June 138 BCE
 The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

AUGUST 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|---|--|
| W 1 | 20 22 49 | 4♂ 5'36 | 27♂ 3 | 7♂ 5 | 19♂51 | 2♂ 3 | 1°R47 | 9♂57 | 9♂53 | 14°R48 | 25°R 5 | 17°R43 | 16♂33 | 28♂53 | n.a. | | | | | | | | | |
| T 2 | 20 26 45 | 5° 3'42 | 8♄54 | 8°59 | 20°44 | 2°40 | 1♂41 | 10° 2 | 9°57 | 14♂46 | 25♂ 4 | 17♂34 | 16°30 | 29° 0 | n.a. | | | | | | | | | |
| F 3 | 20 30 42 | 6° 1'50 | 20°51 | 10°52 | 21°37 | 3°17 | 1°34 | 10° 6 | 10° 1 | 14°45 | 25° 3 | 17°23 | 16°27 | 29° 7 | n.a. | | | | | | | | | |
| S 4 | 20 34 38 | 6°59'59 | 2♂56 | 12°44 | 22°29 | 3°54 | 1°28 | 10°10 | 10° 5 | 14°43 | 25° 2 | 17°11 | 16°23 | 29°13 | n.a. | | | | | | | | | |
| S 5 | 20 38 35 | 7°58'11 | 15°10 | 14°34 | 23°21 | 4°31 | 1°21 | 10°15 | 10° 8 | 14°42 | 25° 2 | 16°57 | 16°20 | 29°20 | n.a. | | | | | | | | | |
| M 6 | 20 42 32 | 8°56'24 | 27°33 | 16°23 | 24°12 | 5° 8 | 1°14 | 10°19 | 10°12 | 14°40 | 25° 1 | 16°44 | 16°17 | 29°27 | n.a. | | | | | | | | | |
| T 7 | 20 46 28 | 9°54'39 | 10♂ 6 | 18°11 | 25° 2 | 5°44 | 1° 7 | 10°24 | 10°16 | 14°39 | 25° 0 | 16°32 | 16°14 | 29°33 | n.a. | | | | | | | | | |
| W 8 | 20 50 25 | 10°52'55 | 22°50 | 19°58 | 25°52 | 6°21 | 1° 0 | 10°28 | 10°20 | 14°37 | 25° 0 | 16°22 | 16°11 | 29°40 | n.a. | | | | | | | | | |
| T 9 | 20 54 21 | 11°51'13 | 5♂46 | 21°43 | 26°41 | 6°57 | 0°53 | 10°33 | 10°24 | 14°36 | 24°59 | 16°16 | 16° 7 | 29°47 | n.a. | | | | | | | | | |
| F 10 | 20 58 18 | 12°49'33 | 18°54 | 23°28 | 27°29 | 7°33 | 0°46 | 10°38 | 10°27 | 14°35 | 24°58 | 16°12 | 16° 4 | 29°53 | n.a. | | | | | | | | | |
| S 11 | 21 2 14 | 13°47'55 | 2♂17 | 25°11 | 28°17 | 8°10 | 0°39 | 10°43 | 10°31 | 14°33 | 24°57 | 16°11 | 16° 1 | 0♄ 0 | n.a. | | | | | | | | | |
| S 12 | 21 6 11 | 14°46'18 | 15°57 | 26°53 | 29° 3 | 8°46 | 0°31 | 10°47 | 10°35 | 14°32 | 24°56 | 16°11 | 15°58 | 0° 7 | n.a. | | | | | | | | | |
| M13 | 21 10 7 | 15°44'43 | 29°55 | 28°34 | 29°49 | 9°22 | 0°24 | 10°52 | 10°39 | 14°30 | 24°55 | 16°10 | 15°55 | 0°14 | n.a. | | | | | | | | | |
| T 14 | 21 14 4 | 16°43'10 | 14♂11 | 0♂14 | 0♂34 | 9°57 | 0°16 | 10°57 | 10°42 | 14°29 | 24°55 | 16° 9 | 15°52 | 0°20 | n.a. | | | | | | | | | |
| W15 | 21 18 1 | 17°41'38 | 28°43 | 1°52 | 1°18 | 10°33 | 0° 8 | 11° 3 | 10°46 | 14°28 | 24°54 | 16° 5 | 15°48 | 0°27 | n.a. | | | | | | | | | |
| T 16 | 21 21 57 | 18°40'09 | 13♂29 | 3°30 | 2° 1 | 11° 9 | 0° 1 | 11° 8 | 10°50 | 14°27 | 24°53 | 15°58 | 15°45 | 0°34 | n.a. | | | | | | | | | |
| F 17 | 21 25 54 | 19°38'41 | 28°21 | 5° 6 | 2°43 | 11°44 | 29♂53 | 11°13 | 10°54 | 14°25 | 24°52 | 15°49 | 15°42 | 0°40 | n.a. | | | | | | | | | |
| S 18 | 21 29 50 | 20°37'14 | 13♂11 | 6°42 | 3°24 | 12°19 | 29°45 | 11°18 | 10°57 | 14°24 | 24°51 | 15°38 | 15°39 | 0°47 | n.a. | | | | | | | | | |
| S 19 | 21 33 47 | 21°35'50 | 27°51 | 8°16 | 4° 4 | 12°54 | 29°37 | 11°24 | 11° 1 | 14°23 | 24°50 | 15°27 | 15°36 | 0°54 | n.a. | | | | | | | | | |
| M20 | 21 37 43 | 22°34'28 | 12♂13 | 9°50 | 4°43 | 13°29 | 29°29 | 11°29 | 11° 5 | 14°22 | 24°49 | 15°16 | 15°33 | 1° 0 | n.a. | | | | | | | | | |
| T 21 | 21 41 40 | 23°33'08 | 26°11 | 11°22 | 5°21 | 14° 4 | 29°22 | 11°34 | 11° 8 | 14°20 | 24°48 | 15° 7 | 15°29 | 1° 7 | n.a. | | | | | | | | | |
| W22 | 21 45 36 | 24°31'50 | 9♀42 | 12°53 | 5°57 | 14°39 | 29°14 | 11°40 | 11°12 | 14°19 | 24°47 | 15° 0 | 15°26 | 1°14 | n.a. | | | | | | | | | |
| T 23 | 21 49 33 | 25°30'34 | 22°47 | 14°24 | 6°33 | 15°14 | 29° 6 | 11°46 | 11°16 | 14°18 | 24°46 | 14°56 | 15°23 | 1°20 | n.a. | | | | | | | | | |
| F 24 | 21 53 30 | 26°29'21 | 5♂27 | 15°53 | 7° 7 | 15°48 | 28°58 | 11°51 | 11°19 | 14°17 | 24°45 | 14°55 | 15°20 | 1°27 | n.a. | | | | | | | | | |
| S 25 | 21 57 26 | 27°28'10 | 17°46 | 17°21 | 7°39 | 16°23 | 28°50 | 11°57 | 11°23 | 14°16 | 24°44 | 14°D54 | 15°17 | 1°34 | n.a. | | | | | | | | | |
| S 26 | 22 1 23 | 28°27'02 | 29°50 | 18°48 | 8°11 | 16°57 | 28°42 | 12° 3 | 11°27 | 14°15 | 24°43 | 14°R55 | 15°13 | 1°40 | n.a. | | | | | | | | | |
| M27 | 22 5 19 | 29°25'56 | 11♂44 | 20°14 | 8°40 | 17°31 | 28°33 | 12° 8 | 11°30 | 14°14 | 24°42 | 14°54 | 15°10 | 1°47 | n.a. | | | | | | | | | |
| T 28 | 22 9 16 | 0♂24'52 | 23°33 | 21°40 | 9° 9 | 18° | | | | | | | | | | | | | | | | | | |

SWISS EPHEMERIS for the year 138 BCE

SEPTEMBER 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ |
|------|----------|----------|-------|--------|--------|-------|--------|-------|-------|--------|--------|--------|-------|------|------|---|
| S 1 | 22 25 2 | 4♍21'01 | 11♌34 | 27♍9 | 10♌46 | 20♍19 | 27°R54 | 12♌38 | 11♌48 | 14°R 9 | 24°R37 | 14°R18 | 14♌54 | 2♌21 | n.a. | |
| S 2 | 22 28 59 | 5°20'09 | 24° 1 | 28°28 | 11° 6 | 20°52 | 27°46 | 12°44 | 11°52 | 14♌8 | 24♌36 | 14♌5 | 14°51 | 2°27 | n.a. | |
| M 3 | 22 32 55 | 6°19'18 | 6♍40 | 29°46 | 11°24 | 21°25 | 27°38 | 12°50 | 11°55 | 14° 7 | 24°35 | 13°53 | 14°48 | 2°34 | n.a. | |
| T 4 | 22 36 52 | 7°18'31 | 19°32 | 1♌2 | 11°41 | 21°58 | 27°30 | 12°57 | 11°59 | 14° 6 | 24°34 | 13°42 | 14°45 | 2°41 | n.a. | |
| W 5 | 22 40 48 | 8°17'45 | 2♌36 | 2°18 | 11°55 | 22°30 | 27°22 | 13° 3 | 12° 2 | 14° 6 | 24°33 | 13°34 | 14°42 | 2°47 | n.a. | |
| T 6 | 22 44 45 | 9°17'01 | 15°51 | 3°31 | 12° 7 | 23° 3 | 27°14 | 13° 9 | 12° 6 | 14° 5 | 24°32 | 13°28 | 14°39 | 2°54 | n.a. | |
| F 7 | 22 48 41 | 10°16'19 | 29°16 | 4°43 | 12°17 | 23°35 | 27° 7 | 13°15 | 12° 9 | 14° 4 | 24°30 | 13°25 | 14°35 | 3° 1 | n.a. | |
| S 8 | 22 52 38 | 11°15'39 | 12♌52 | 5°54 | 12°25 | 24° 7 | 26°59 | 13°22 | 12°13 | 14° 3 | 24°29 | 13°D24 | 14°32 | 3° 7 | n.a. | |
| S 9 | 22 56 34 | 12°15'01 | 26°38 | 7° 2 | 12°31 | 24°39 | 26°52 | 13°28 | 12°16 | 14° 3 | 24°28 | 13°24 | 14°29 | 3°14 | n.a. | |
| M10 | 23 0 31 | 13°14'25 | 10♌35 | 8° 8 | 12°34 | 25°11 | 26°44 | 13°35 | 12°20 | 14° 2 | 24°27 | 13°R25 | 14°26 | 3°21 | n.a. | |
| T 11 | 23 4 28 | 14°13'51 | 24°41 | 9°13 | 12°R36 | 25°42 | 26°37 | 13°41 | 12°23 | 14° 2 | 24°26 | 13°24 | 14°23 | 3°27 | n.a. | |
| W12 | 23 8 24 | 15°13'18 | 8♌57 | 10°15 | 12°34 | 26°14 | 26°30 | 13°47 | 12°26 | 14° 1 | 24°25 | 13°22 | 14°19 | 3°34 | n.a. | |
| T 13 | 23 12 21 | 16°12'48 | 23°21 | 11°14 | 12°31 | 26°45 | 26°23 | 13°54 | 12°30 | 14° 0 | 24°24 | 13°17 | 14°16 | 3°41 | n.a. | |
| F 14 | 23 16 17 | 17°12'19 | 7♌47 | 12°10 | 12°25 | 27°16 | 26°16 | 14° 1 | 12°33 | 14° 0 | 24°23 | 13°10 | 14°13 | 3°48 | n.a. | |
| S 15 | 23 20 14 | 18°11'52 | 22°11 | 13° 4 | 12°16 | 27°47 | 26° 9 | 14° 7 | 12°36 | 13°59 | 24°21 | 13° 2 | 14°10 | 3°54 | n.a. | |
| S 16 | 23 24 10 | 19°11'27 | 6♌27 | 13°54 | 12° 5 | 28°17 | 26° 2 | 14°14 | 12°39 | 13°59 | 24°20 | 12°53 | 14° 7 | 4° 1 | n.a. | |
| M17 | 23 28 7 | 20°11'04 | 20°30 | 14°40 | 11°52 | 28°48 | 25°55 | 14°21 | 12°42 | 13°58 | 24°19 | 12°44 | 14° 4 | 4° 8 | n.a. | |
| T 18 | 23 32 3 | 21°10'43 | 4♍14 | 15°22 | 11°36 | 29°18 | 25°49 | 14°27 | 12°46 | 13°58 | 24°18 | 12°37 | 14° 0 | 4°14 | n.a. | |
| W19 | 23 36 0 | 22°10'24 | 17°37 | 16° 0 | 11°18 | 29°48 | 25°42 | 14°34 | 12°49 | 13°58 | 24°17 | 12°32 | 13°57 | 4°21 | n.a. | |
| T 20 | 23 39 57 | 23°10'08 | 0♌37 | 16°32 | 10°58 | 0♌18 | 25°36 | 14°41 | 12°52 | 13°57 | 24°16 | 12°29 | 13°54 | 4°28 | n.a. | |
| F 21 | 23 43 53 | 24° 9'54 | 13°16 | 17° 0 | 10°36 | 0°47 | 25°30 | 14°47 | 12°55 | 13°57 | 24°15 | 12°D29 | 13°51 | 4°34 | n.a. | |
| S 22 | 23 47 50 | 25° 9'42 | 25°37 | 17°21 | 10°11 | 1°16 | 25°24 | 14°54 | 12°58 | 13°57 | 24°13 | 12°29 | 13°48 | 4°41 | n.a. | |
| S 23 | 23 51 46 | 26° 9'32 | 7♍43 | 17°35 | 9°44 | 1°46 | 25°18 | 15° 1 | 13° 1 | 13°57 | 24°12 | 12°31 | 13°44 | 4°48 | n.a. | |
| M24 | 23 55 43 | 27° 9'25 | 19°38 | 17°R43 | 9°16 | 2°14 | 25°12 | 15° 8 | 13° 4 | 13°56 | 24°11 | 12°32 | 13°41 | 4°54 | n.a. | |
| T 25 | 23 59 39 | 28° 9'20 | 1♌29 | 17°43 | 8°46 | 2°43 | 25° 7 | 15°15 | 13° 7 | 13°56 | 24°10 | 12°R32 | 13°38 | 5° 1 | n.a. | |
| W26 | 0 3 36 | 29° 9'18 | 13°20 | 17°35 | 8°14 | 3°11 | 25° 1 | 15°22 | 13°10 | 13°56 | 24° 9 | 12°31 | 13°35 | 5° 8 | n.a. | |
| T 27 | 0 7 32 | 0♌9'17 | 25°17 | 17°18 | 7°41 | 3°40 | 24°56 | 15°29 | 13°13 | 13°56 | 24° 8 | 12°28 | 13°32 | 5°15 | n.a. | |
| F 28 | 0 11 29 | 1° 9'19 | 7♌23 | 16°52 | 7° 7 | 4° 7 | 24°51 | 15°36 | 13°15 | 13°56 | 24° 6 | 12°23 | 13°29 | 5°21 | n.a. | |
| S 29 | 0 15 26 | 2° 9'23 | 19°42 | 16°16 | 6°32 | 4°35 | 24°46 | 15°43 | 13°18 | 13°56 | 24° 5 | 12°17 | 13°25 | 5°28 | n.a. | |
| S 30 | 0 19 22 | 3♌9'29 | 2♍18 | 15♌32 | 5♌56 | 5♌2 | 24°42 | 15♌50 | 13♌21 | 13°D56 | 24♌4 | 12♌10 | 13♌22 | 5♌35 | n.a. | |

Delta T = 03h18m51s Julian Calendar 1 Sept. 138 BCE == Greg. Calendar 29 Aug. 138 BCE
 The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

OCTOBER 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ |
|------|---------|----------|-------|--------|--------|-------|--------|-------|-------|-------|--------|--------|-------|------|------|---|
| M 1 | 0 23 19 | 4♌9'38 | 15♍10 | 14°R38 | 5°R20 | 5♌30 | 24°R37 | 15♌57 | 13♌24 | 13♌56 | 24°R 3 | 12°R 3 | 13♌19 | 5♌41 | n.a. | |
| T 2 | 0 27 15 | 5° 9'48 | 28°20 | 13♌37 | 4♌44 | 5°56 | 24°33 | 16° 4 | 13°26 | 13°56 | 24♌2 | 11♌56 | 13°16 | 5°48 | n.a. | |
| W 3 | 0 31 12 | 6°10'00 | 11♌46 | 12°29 | 4° 8 | 6°23 | 24°28 | 16°11 | 13°29 | 13°56 | 24° 1 | 11°52 | 13°13 | 5°55 | n.a. | |
| T 4 | 0 35 8 | 7°10'14 | 25°26 | 11°15 | 3°32 | 6°49 | 24°24 | 16°18 | 13°32 | 13°56 | 24° 0 | 11°49 | 13°10 | 6° 1 | n.a. | |
| F 5 | 0 39 5 | 8°10'30 | 9♍18 | 9°57 | 2°56 | 7°15 | 24°21 | 16°25 | 13°34 | 13°56 | 23°59 | 11°D48 | 13° 6 | 6° 8 | n.a. | |
| S 6 | 0 43 1 | 9°10'48 | 23°18 | 8°39 | 2°21 | 7°41 | 24°17 | 16°32 | 13°37 | 13°57 | 23°57 | 11°48 | 13° 3 | 6°15 | n.a. | |
| S 7 | 0 46 58 | 10°11'07 | 7♌23 | 7°22 | 1°47 | 8° 6 | 24°14 | 16°39 | 13°39 | 13°57 | 23°56 | 11°49 | 13° 0 | 6°21 | n.a. | |
| M 8 | 0 50 54 | 11°11'28 | 21°32 | 6° 8 | 1°15 | 8°31 | 24°10 | 16°46 | 13°42 | 13°57 | 23°55 | 11°51 | 12°57 | 6°28 | n.a. | |
| T 9 | 0 54 51 | 12°11'51 | 5♌42 | 5° 1 | 0°43 | 8°56 | 24° 7 | 16°53 | 13°44 | 13°57 | 23°54 | 11°R52 | 12°54 | 6°35 | n.a. | |
| W10 | 0 58 48 | 13°12'15 | 19°52 | 4° 1 | 0°14 | 9°20 | 24° 5 | 17° 0 | 13°46 | 13°58 | 23°53 | 11°52 | 12°50 | 6°42 | n.a. | |
| T 11 | 1 2 44 | 14°12'40 | 4♌0 | 3°12 | 29♍46 | 9°44 | 24° 2 | 17° 7 | 13°49 | 13°58 | 23°52 | 11°50 | 12°47 | 6°48 | n.a. | |
| F 12 | 1 6 41 | 15°13'07 | 18° 3 | 2°33 | 29°20 | 10° 8 | 23°59 | 17°14 | 13°51 | 13°58 | 23°51 | 11°48 | 12°44 | 6°55 | n.a. | |
| S 13 | 1 10 37 | 16°13'35 | 2♌0 | 2° 6 | 28°56 | 10°31 | 23°57 | 17°21 | 13°53 | 13°59 | 23°50 | 11°44 | 12°41 | 7° 2 | n.a. | |
| S 14 | 1 14 34 | 17°14'05 | 15°47 | 1°51 | 28°34 | 10°54 | 23°55 | 17°28 | 13°55 | 13°59 | 23°49 | 11°41 | 12°38 | 7° 8 | n.a. | |
| M15 | 1 18 30 | 18°14'36 | 29°22 | 1°D47 | 28°15 | 11°17 | 23°53 | 17°36 | 13°58 | 14° 0 | 23°48 | 11°37 | 12°35 | 7°15 | n.a. | |
| T 16 | 1 22 27 | 19°15'09 | 12♍43 | 1°54 | 27°57 | 11°39 | 23°52 | 17°43 | 14° 0 | 14° 0 | 23°47 | 11°34 | 12°31 | 7°22 | n.a. | |
| W17 | 1 26 23 | 20°15'43 | 25°48 | 2°12 | 27°43 | 12° 1 | 23°50 | 17°50 | 14° 2 | 14° 1 | 23°46 | 11°32 | 12°28 | 7°28 | n.a. | |
| T 18 | 1 30 20 | 21°16'19 | 8♌36 | 2°39 | 27°30 | 12°23 | 23°49 | 17°57 | 14° 4 | 14° 2 | 23°45 | 11°D31 | 12°25 | 7°35 | n.a. | |
| F 19 | 1 34 17 | 22°16'56 | 21° 8 | 3°15 | 27°21 | 12°44 | 23°48 | 18° 4 | 14° 6 | 14° 2 | 23°44 | 11°31 | 12°22 | 7°42 | n.a. | |
| S 20 | 1 38 13 | 23°17'36 | 3♍25 | 3°59 | 27°13 | 13° 5 | 23°47 | 18°11 | 14° 8 | 14° 3 | 23°43 | 11°33 | 12°19 | 7°49 | n.a. | |
| S 21 | 1 42 10 | 24°18'17 | 15°30 | 4°49 | 27° 8 | 13°26 | 23°47 | 18°18 | 14° 9 | 14° 4 | 23°42 | 11°34 | 12°16 | 7°55 | n.a. | |
| M22 | 1 46 6 | 25°19'00 | 27°26 | 5°46 | 27°D 6 | 13°46 | 23°46 | 18°25 | 14°11 | 14° 4 | 23°41 | 11°36 | 12°12 | 8° 2 | n.a. | |
| T 23 | 1 50 3 | 26°19'44 | 9♌18 | 6°48 | 27° 6 | 14° 5 | 23°D46 | 18°32 | 14°13 | 14° 5 | 23°40 | 11°37 | 12° 9 | 8° 9 | n.a. | |
| W24 | 1 53 59 | 27°20'31 | 21° 9 | 7°55 | 27° 9 | 14°24 | 23°46 | 18°39 | 14°15 | 14° 6 | 23°39 | 11°37 | 12° 6 | 8°15 | n.a. | |
| T 25 | 1 57 56 | 28°21'19 | 3♌5 | 9° 6 | 27°14 | 14°43 | 23°46 | 18°46 | 14°16 | 14° 7 | 23°38 | 11°R38 | 12° 3 | 8°22 | n.a. | |
| F 26 | 2 1 52 | 29°22'08 | 15°10 | 10°20 | 27°21 | 15° 1 | 23°47 | 18°53 | 14°18 | 14° 8 | 23°37 | 11°37 | 12° 0 | 8°29 | n.a. | |
| S 27 | 2 5 49 | 0♍22'59 | 27°29 | 11°37 | 27°31 | 15°19 | 23°47 | 19° 0 | 14°19 | 14° 9 | 23°36 | 11°36 | 11°56 | 8°35 | n.a. | |
| S 28 | 2 9 46 | 1°23'52 | 10♍6 | 12°57 | 27°42 | 15°37 | 23°48 | 19° 7 | 14°21 | 14°10 | 23°35 | 11°35 | 11°53 | 8°42 | n.a. | |
| M29 | 2 13 42 | 2°24'46 | 23° 4 | 14°19 | 27°56 | 15°53 | 23°49 | 19°14 | 14°22 | 14°11 | 23°34 | 11°33 | 11°50 | 8°49 | n.a. | |
| T 30 | 2 17 39 | 3°25'41 | 6♌24 | 15°42 | 28°13 | 16°10 | 23°51 | 19°21 | 14°24 | 14°12 | 23°34 | 11°32 | 11°47 | 8°56 | n.a. | |
| W31 | 2 21 35 | 4♍26'38 | 20♌6 | 17♌7 | 28♍31 | 16°26 | 23°52 | 19♌28 | 14♌25 | 14♌13 | 23♌33 | 11♌31 | 11♌44 | 9♌2 | n.a. | |

Delta T = 03h18m50s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 138 BCE

NOVEMBER 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|-------|--------|-------|-------|--------|-------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| T 1 | 2 25 32 | 5♁27'36 | 4♁ 8 | 18♁34 | 28♁51 | 16♁41 | 23♁54 | 19♁35 | 14♁26 | 14♁14 | 23°R32 | 11°R31 | 11♁41 | 9♁ 9 | n.a. | | | | | | | | |
| F 2 | 2 29 28 | 6°28'36 | 18°26 | 20° 1 | 29°13 | 16°56 | 23°56 | 19°42 | 14°28 | 14°15 | 23°R31 | 11°D31 | 11°37 | 9°16 | n.a. | | | | | | | | |
| S 3 | 2 33 25 | 7°29'36 | 2♁55 | 21°30 | 29°37 | 17°10 | 23°58 | 19°49 | 14°29 | 14°16 | 23°30 | 11°R31 | 11°34 | 9°22 | n.a. | | | | | | | | |
| S 4 | 2 37 21 | 8°30'38 | 17°30 | 22°59 | 0♁ 2 | 17°24 | 24° 0 | 19°56 | 14°30 | 14°17 | 23°30 | 11°31 | 11°31 | 9°29 | n.a. | | | | | | | | |
| M 5 | 2 41 18 | 9°31'40 | 2♁ 3 | 24°28 | 0°30 | 17°37 | 24° 3 | 20° 3 | 14°31 | 14°18 | 23°29 | 11°32 | 11°28 | 9°36 | n.a. | | | | | | | | |
| T 6 | 2 45 15 | 10°32'43 | 16°31 | 25°59 | 0°59 | 17°50 | 24° 5 | 20°10 | 14°32 | 14°19 | 23°28 | 11°32 | 11°25 | 9°42 | n.a. | | | | | | | | |
| W 7 | 2 49 11 | 11°33'47 | 0♁49 | 27°29 | 1°30 | 18° 2 | 24° 8 | 20°16 | 14°33 | 14°21 | 23°27 | 11°R32 | 11°22 | 9°49 | n.a. | | | | | | | | |
| T 8 | 2 53 8 | 12°34'52 | 14°55 | 29° 1 | 2° 2 | 18°13 | 24°11 | 20°23 | 14°34 | 14°22 | 23°27 | 11°D32 | 11°18 | 9°56 | n.a. | | | | | | | | |
| F 9 | 2 57 4 | 13°35'57 | 28°46 | 0♁32 | 2°35 | 18°24 | 24°15 | 20°30 | 14°35 | 14°23 | 23°26 | 11°32 | 11°15 | 10° 3 | n.a. | | | | | | | | |
| S 10 | 3 1 1 | 14°37'02 | 12♁23 | 2° 4 | 3°11 | 18°34 | 24°18 | 20°37 | 14°35 | 14°25 | 23°25 | 11°32 | 11°12 | 10° 9 | n.a. | | | | | | | | |
| S 11 | 3 4 57 | 15°38'08 | 25°46 | 3°36 | 3°47 | 18°44 | 24°22 | 20°43 | 14°36 | 14°26 | 23°25 | 11°32 | 11° 9 | 10°16 | n.a. | | | | | | | | |
| M12 | 3 8 54 | 16°39'15 | 8♀55 | 5° 8 | 4°25 | 18°53 | 24°26 | 20°50 | 14°37 | 14°27 | 23°24 | 11°33 | 11° 6 | 10°23 | n.a. | | | | | | | | |
| T 13 | 3 12 50 | 17°40'22 | 21°50 | 6°40 | 5° 4 | 19° 1 | 24°30 | 20°57 | 14°37 | 14°29 | 23°23 | 11°34 | 11° 2 | 10°29 | n.a. | | | | | | | | |
| W14 | 3 16 47 | 18°41'30 | 4♁33 | 8°12 | 5°44 | 19° 9 | 24°34 | 21° 3 | 14°38 | 14°30 | 23°23 | 11°34 | 10°59 | 10°36 | n.a. | | | | | | | | |
| T 15 | 3 20 44 | 19°42'38 | 17° 4 | 9°45 | 6°26 | 19°16 | 24°38 | 21°10 | 14°38 | 14°32 | 23°22 | 11°R34 | 10°56 | 10°43 | n.a. | | | | | | | | |
| F 16 | 3 24 40 | 20°43'47 | 29°23 | 11°18 | 7° 9 | 19°23 | 24°43 | 21°16 | 14°39 | 14°33 | 23°22 | 11°33 | 10°53 | 10°50 | n.a. | | | | | | | | |
| S 17 | 3 28 37 | 21°44'57 | 11♁33 | 12°51 | 7°53 | 19°28 | 24°48 | 21°23 | 14°39 | 14°35 | 23°21 | 11°32 | 10°50 | 10°56 | n.a. | | | | | | | | |
| S 18 | 3 32 33 | 22°46'07 | 23°34 | 14°24 | 8°37 | 19°33 | 24°53 | 21°29 | 14°40 | 14°36 | 23°21 | 11°31 | 10°47 | 11° 3 | n.a. | | | | | | | | |
| M19 | 3 36 30 | 23°47'19 | 5♁28 | 15°57 | 9°23 | 19°38 | 24°58 | 21°36 | 14°40 | 14°38 | 23°20 | 11°29 | 10°43 | 11°10 | n.a. | | | | | | | | |
| T 20 | 3 40 26 | 24°48'31 | 17°20 | 17°30 | 10°10 | 19°41 | 25° 3 | 21°42 | 14°40 | 14°39 | 23°20 | 11°27 | 10°40 | 11°16 | n.a. | | | | | | | | |
| W21 | 3 44 23 | 25°49'43 | 29°11 | 19° 4 | 10°58 | 19°44 | 25° 9 | 21°48 | 14°40 | 14°41 | 23°19 | 11°25 | 10°37 | 11°23 | n.a. | | | | | | | | |
| T 22 | 3 48 19 | 26°50'56 | 11♁ 5 | 20°37 | 11°47 | 19°46 | 25°15 | 21°54 | 14°40 | 14°43 | 23°19 | 11°24 | 10°34 | 11°30 | n.a. | | | | | | | | |
| F 23 | 3 52 16 | 27°52'10 | 23° 8 | 22°11 | 12°36 | 19°47 | 25°21 | 22° 1 | 14°R40 | 14°44 | 23°18 | 11°D23 | 10°31 | 11°36 | n.a. | | | | | | | | |
| S 24 | 3 56 13 | 28°53'24 | 5♁23 | 23°45 | 13°27 | 19°R48 | 25°27 | 22° 7 | 14°40 | 14°46 | 23°18 | 11°23 | 10°27 | 11°43 | n.a. | | | | | | | | |
| S 25 | 4 0 9 | 29°54'39 | 17°55 | 25°20 | 14°18 | 19°48 | 25°33 | 22°13 | 14°40 | 14°48 | 23°18 | 11°24 | 10°24 | 11°50 | n.a. | | | | | | | | |
| M26 | 4 4 6 | 0♁55'55 | 0♁49 | 26°54 | 15°10 | 19°47 | 25°39 | 22°19 | 14°40 | 14°50 | 23°17 | 11°25 | 10°21 | 11°57 | n.a. | | | | | | | | |
| T 27 | 4 8 2 | 1°57'10 | 14° 7 | 28°29 | 16° 3 | 19°45 | 25°46 | 22°25 | 14°40 | 14°51 | 23°17 | 11°27 | 10°18 | 12° 3 | n.a. | | | | | | | | |
| W28 | 4 11 59 | 2°58'27 | 27°52 | 0♁ 4 | 16°56 | 19°42 | 25°53 | 22°31 | 14°40 | 14°53 | 23°17 | 11°28 | 10°15 | 12°10 | n.a. | | | | | | | | |
| T 29 | 4 15 55 | 3°59'43 | 12♁ 3 | 1°39 | 17°50 | 19°39 | 25°59 | 22°37 | 14°39 | 14°55 | 23°16 | 11°R28 | 10°12 | 12°17 | n.a. | | | | | | | | |
| F 30 | 4 19 52 | 5♁ 1'00 | 26♁37 | 3♁14 | 18♁45 | 19♁35 | 26♁ 7 | 22♁43 | 14♁39 | 14♁57 | 23♁16 | 11♁28 | 10♁ 8 | 12♁23 | n.a. | | | | | | | | |

Delta T = 03h18m49s Julian Calendar 1 Nov. 138 BCE == Greg. Calendar 29 Oct. 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

DECEMBER 138 BCE (-137) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|-------|--------|-------|-------|--------|--------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| S 1 | 4 23 48 | 6♁ 2'17 | 11♁29 | 4♁50 | 19♁41 | 19°R30 | 26♁14 | 22♁49 | 14°R39 | 14°R59 | 23°R16 | 11°R26 | 10♁ 5 | 12♁30 | n.a. | | | | | | | | |
| S 2 | 4 27 45 | 7° 3'35 | 26°30 | 6°26 | 20°37 | 19♁24 | 26°21 | 22°55 | 14°R38 | 15° 1 | 23°R16 | 11°R23 | 10° 2 | 12°37 | n.a. | | | | | | | | |
| M 3 | 4 31 42 | 8° 4'52 | 11♁32 | 8° 3 | 21°33 | 19°17 | 26°29 | 23° 0 | 14°38 | 15° 2 | 23°15 | 11°19 | 9°59 | 12°44 | n.a. | | | | | | | | |
| T 4 | 4 35 38 | 9° 6'08 | 26°25 | 9°39 | 22°30 | 19°10 | 26°37 | 23° 6 | 14°37 | 15° 4 | 23°15 | 11°15 | 9°56 | 12°50 | n.a. | | | | | | | | |
| W 5 | 4 39 35 | 10° 7'25 | 11♁ 3 | 11°17 | 23°28 | 19° 1 | 26°44 | 23°11 | 14°37 | 15° 6 | 23°15 | 11°12 | 9°53 | 12°57 | n.a. | | | | | | | | |
| T 6 | 4 43 31 | 11° 8'41 | 25°20 | 12°54 | 24°26 | 18°52 | 26°52 | 23°17 | 14°36 | 15° 8 | 23°15 | 11° 9 | 9°49 | 13° 4 | n.a. | | | | | | | | |
| F 7 | 4 47 28 | 12° 9'56 | 9♁14 | 14°32 | 25°25 | 18°42 | 27° 1 | 23°23 | 14°35 | 15°10 | 23°15 | 11°D 8 | 9°46 | 13°10 | n.a. | | | | | | | | |
| S 8 | 4 51 24 | 13°11'11 | 22°45 | 16°10 | 26°24 | 18°31 | 27° 9 | 23°28 | 14°34 | 15°12 | 23°15 | 11° 8 | 9°43 | 13°17 | n.a. | | | | | | | | |
| S 9 | 4 55 21 | 14°12'25 | 5♀55 | 17°49 | 27°24 | 18°20 | 27°17 | 23°33 | 14°34 | 15°14 | 23°15 | 11°10 | 9°40 | 13°24 | n.a. | | | | | | | | |
| M10 | 4 59 18 | 15°13'38 | 18°47 | 19°28 | 28°24 | 18° 8 | 27°26 | 23°39 | 14°33 | 15°16 | 23°15 | 11°12 | 9°37 | 13°31 | n.a. | | | | | | | | |
| T 11 | 5 3 14 | 16°14'52 | 1♁24 | 21° 7 | 29°24 | 17°54 | 27°35 | 23°44 | 14°32 | 15°18 | 23°D15 | 11°13 | 9°33 | 13°37 | n.a. | | | | | | | | |
| W12 | 5 7 11 | 17°16'04 | 13°48 | 22°47 | 0♁25 | 17°41 | 27°44 | 23°49 | 14°31 | 15°20 | 23°15 | 11°R13 | 9°30 | 13°44 | n.a. | | | | | | | | |
| T 13 | 5 11 7 | 18°17'16 | 26° 2 | 24°27 | 1°26 | 17°26 | 27°53 | 23°54 | 14°30 | 15°22 | 23°15 | 11°12 | 9°27 | 13°51 | n.a. | | | | | | | | |
| F 14 | 5 15 4 | 19°18'28 | 8♁ 8 | 26° 7 | 2°28 | 17°11 | 28° 2 | 23°59 | 14°29 | 15°24 | 23°15 | 11° 9 | 9°24 | 13°57 | n.a. | | | | | | | | |
| S 15 | 5 19 0 | 20°19'38 | 20° 8 | 27°48 | 3°30 | 16°54 | 28°11 | 24° 4 | 14°27 | 15°27 | 23°15 | 11° 4 | 9°21 | 14° 4 | n.a. | | | | | | | | |
| S 16 | 5 22 57 | 21°20'49 | 2♁ 4 | 29°29 | 4°33 | 16°38 | 28°20 | 24° 9 | 14°26 | 15°29 | 23°15 | 10°57 | 9°18 | 14°11 | n.a. | | | | | | | | |
| M17 | 5 26 53 | 22°21'59 | 13°57 | 1♁10 | 5°35 | 16°20 | 28°30 | 24°14 | 14°25 | 15°31 | 23°15 | 10°49 | 9°14 | 14°17 | n.a. | | | | | | | | |
| T 18 | 5 30 50 | 23°23'08 | 25°48 | 2°51 | 6°39 | 16° 2 | 28°40 | 24°18 | 14°24 | 15°33 | 23°15 | 10°40 | 9°11 | 14°24 | n.a. | | | | | | | | |
| W19 | 5 34 47 | 24°24'17 | 7♁40 | 4°33 | 7°42 | 15°43 | 28°49 | 24°23 | 14°22 | 15°35 | 23°15 | 10°32 | 9° 8 | 14°31 | n.a. | | | | | | | | |
| T 20 | 5 38 43 | 25°25'25 | 19°36 | 6°14 | 8°46 | 15°24 | 28°59 | 24°28 | 14°21 | 15°37 | 23°16 | 10°25 | 9° 5 | 14°38 | n.a. | | | | | | | | |
| F 21 | 5 42 40 | 26°26'33 | 1♁38 | 7°56 | 9°50 | 15° 4 | 29° 9 | 24°32 | 14°19 | 15°39 | 23°16 | 10°20 | 9° 2 | 14°44 | n.a. | | | | | | | | |
| S 22 | 5 46 36 | 27°27'40 | 13°50 | 9°37 | 10°54 | 14°43 | 29°20 | 24°37 | 14°18 | 15°42 | 23°16 | 10°16 | 8°59 | 14°51 | n.a. | | | | | | | | |
| S 23 | 5 50 33 | 28°28'47 | 26°17 | 11°18 | 11°59 | 14°22 | 29°30 | 24°41 | 14°16 | 15°44 | 23°16 | 10°D15 | 8°55 | 14°58 | n.a. | | | | | | | | |
| M24 | 5 54 29 | 29°29'53 | 9♁ 3 | 12°58 | 13° 4 | 14° 1 | 29°40 | 24°45 | 14°15 | 15°46 | 23°17 | 10°16 | 8°52 | 15° 4 | n.a. | | | | | | | | |
| T 25 | 5 58 26 | 0♁30'58 | 22°12 | 14°37 | 14° 9 | 13°39 | 29°51 | 24°50 | 14°13 | 15°48 | 23°17 | 10°17 | 8°49 | 15°11 | n.a. | | | | | | | | |
| W26 | 6 2 22 | 1°32'03 | 5♁48 | 16°15 | 15°14 | 13°16 | 0♁ 1 | 24°54 | 14°12 | 15°50 | 23°17 | 10°R18 | 8°46 | 15°18 | n.a. | | | | | | | | |
| T 27 | 6 6 19 | 2°33'07 | 19°53 | 17°52 | 16°20 | 12°54 | 0°12 | 24°58 | 14°10 | 15°53 | 23°17 | 10°17 | 8°43 | 15°25 | n.a. | | | | | | | | |
| F 28 | 6 10 16 | 3°34'11 | 4♁26 | 19°27 | 17°26 | 12°31 | 0°23 | 25° 2 | 14° 8 | 15°55 | 23°18 | 10°15 | 8°39 | 15°31 | n.a. | | | | | | | | |
| S 29 | 6 14 12 | 4°35'14 | 19°23 | 21° 0 | 18°32 | 12° 7 | 0°34 | 25° 6 | 14° 6 | 15°57 | 23°18 | 10°10 | 8°36 | 15°38 | n.a. | | | | | | | | |
| S 30 | 6 18 9 | 5°36'16 | 4♁37 | 22°30 | 19°39 | 11°44 | 0°45 | 25° 9 | 14° 5 | 15°59 | 23°19 | 10° 3 | 8°33 | 15°45 | n.a. | | | | | | | | |
| M31 | 6 22 5 | 6♁37'16 | 19♁56 | 23♁57 | 20♁45 | 11♁20 | 0♁56 | 25♁13 | 14♁ 3 | 16♁ 2 | 23♁19 | 9♁54 | 8♁30 | 15♁51 | n.a. | | | | | | | | |

Delta T = 03h18m48s

Julian Calendar

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