

SWISS EPHEMERIS for the year 518 BCE

JANUARY 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♅     | ♁     | ♁      | ♁      | ♁      | ♁     | ♁     | ♁    |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|------|
| T 1  | 6 15 34 | 5☾11'42  | 29♁ 1 | 21☾50  | 19☾47 | 13♁ 4 | 15☾52 | 11♁15 | 26☾33 | 21°R51 | 25°R48 | 28°R36 | 27♁51 | 21♁18 | n.a. |
| W 2  | 6 19 31 | 6°12'34  | 11♁33 | 22°R 0 | 20°55 | 13°50 | 16° 6 | 11°20 | 26°36 | 21°51  | 25°46  | 28°31  | 27°48 | 21°24 | n.a. |
| T 3  | 6 23 28 | 7°13'25  | 24°20 | 21°59  | 22° 2 | 14°36 | 16°20 | 11°25 | 26°40 | 21°51  | 25°45  | 28°28  | 27°44 | 21°31 | n.a. |
| F 4  | 6 27 24 | 8°14'15  | 7♁25  | 21°47  | 23°10 | 15°22 | 16°35 | 11°30 | 26°43 | 21°51  | 25°44  | 28°D27 | 27°41 | 21°38 | n.a. |
| S 5  | 6 31 21 | 9°15'04  | 20°52 | 21°24  | 24°17 | 16° 8 | 16°49 | 11°34 | 26°46 | 21°50  | 25°42  | 28°R27 | 27°38 | 21°45 | n.a. |
| S 6  | 6 35 17 | 10°15'52 | 4♁43  | 20°50  | 25°24 | 16°55 | 17° 3 | 11°39 | 26°50 | 21°50  | 25°41  | 28°27  | 27°35 | 21°51 | n.a. |
| M 7  | 6 39 14 | 11°16'39 | 19° 0 | 20° 7  | 26°31 | 17°41 | 17°17 | 11°44 | 26°53 | 21°50  | 25°39  | 28°26  | 27°32 | 21°58 | n.a. |
| T 8  | 6 43 10 | 12°17'24 | 3♁41  | 19°16  | 27°37 | 18°27 | 17°32 | 11°48 | 26°56 | 21°50  | 25°38  | 28°22  | 27°29 | 22° 5 | n.a. |
| W 9  | 6 47 7  | 13°18'09 | 18°42 | 18°17  | 28°44 | 19°13 | 17°46 | 11°53 | 27° 0 | 21°49  | 25°36  | 28°15  | 27°25 | 22°11 | n.a. |
| T 10 | 6 51 3  | 14°18'52 | 3☾55  | 17°13  | 29°50 | 20° 0 | 18° 0 | 11°57 | 27° 3 | 21°49  | 25°35  | 28° 6  | 27°22 | 22°18 | n.a. |
| F 11 | 6 55 0  | 15°19'33 | 19°10 | 16° 5  | 0♁56  | 20°46 | 18°15 | 12° 2 | 27° 7 | 21°49  | 25°33  | 27°55  | 27°19 | 22°25 | n.a. |
| S 12 | 6 58 57 | 16°20'13 | 4♁15  | 14°56  | 2° 1  | 21°32 | 18°29 | 12° 6 | 27°10 | 21°48  | 25°32  | 27°43  | 27°16 | 22°31 | n.a. |
| S 13 | 7 2 53  | 17°20'51 | 19° 0 | 13°46  | 3° 7  | 22°19 | 18°44 | 12°10 | 27°13 | 21°48  | 25°31  | 27°33  | 27°13 | 22°38 | n.a. |
| M14  | 7 6 50  | 18°21'27 | 3♁18  | 12°39  | 4°12  | 23° 5 | 18°58 | 12°14 | 27°17 | 21°47  | 25°29  | 27°24  | 27° 9 | 22°45 | n.a. |
| T 15 | 7 10 46 | 19°22'01 | 17° 7 | 11°35  | 5°16  | 23°52 | 19°12 | 12°18 | 27°20 | 21°47  | 25°28  | 27°18  | 27° 6 | 22°52 | n.a. |
| W16  | 7 14 43 | 20°22'33 | 0♁25  | 10°35  | 6°21  | 24°38 | 19°27 | 12°22 | 27°24 | 21°46  | 25°26  | 27°15  | 27° 3 | 22°58 | n.a. |
| T 17 | 7 18 39 | 21°23'04 | 13°17 | 9°42   | 7°25  | 25°25 | 19°41 | 12°26 | 27°27 | 21°46  | 25°25  | 27°14  | 27° 0 | 23° 5 | n.a. |
| F 18 | 7 22 36 | 22°23'32 | 25°45 | 8°55   | 8°29  | 26°11 | 19°55 | 12°30 | 27°31 | 21°45  | 25°23  | 27°13  | 26°57 | 23°12 | n.a. |
| S 19 | 7 26 32 | 23°23'58 | 7♁56  | 8°15   | 9°32  | 26°57 | 20°10 | 12°34 | 27°34 | 21°44  | 25°21  | 27°13  | 26°54 | 23°18 | n.a. |
| S 20 | 7 30 29 | 24°24'22 | 19°54 | 7°42   | 10°35 | 27°44 | 20°24 | 12°37 | 27°38 | 21°44  | 25°20  | 27°12  | 26°50 | 23°25 | n.a. |
| M21  | 7 34 26 | 25°24'44 | 1♁46  | 7°17   | 11°38 | 28°31 | 20°38 | 12°41 | 27°41 | 21°43  | 25°18  | 27° 8  | 26°47 | 23°32 | n.a. |
| T 22 | 7 38 22 | 26°25'04 | 13°34 | 6°59   | 12°41 | 29°17 | 20°53 | 12°44 | 27°44 | 21°42  | 25°17  | 27° 1  | 26°44 | 23°38 | n.a. |
| W23  | 7 42 19 | 27°25'22 | 25°24 | 6°49   | 13°43 | 0☾ 4  | 21° 7 | 12°48 | 27°48 | 21°41  | 25°15  | 26°52  | 26°41 | 23°45 | n.a. |
| T 24 | 7 46 15 | 28°25'38 | 7♁18  | 6°D45  | 14°44 | 0°50  | 21°21 | 12°51 | 27°51 | 21°41  | 25°14  | 26°40  | 26°38 | 23°52 | n.a. |
| F 25 | 7 50 12 | 29°25'52 | 19°17 | 6°49   | 15°46 | 1°37  | 21°36 | 12°54 | 27°55 | 21°40  | 25°12  | 26°26  | 26°35 | 23°59 | n.a. |
| S 26 | 7 54 8  | 0♁26'04  | 1♁24  | 6°58   | 16°47 | 2°23  | 21°50 | 12°57 | 27°58 | 21°39  | 25°11  | 26°11  | 26°31 | 24° 5 | n.a. |
| S 27 | 7 58 5  | 1°26'14  | 13°40 | 7°14   | 17°47 | 3°10  | 22° 4 | 13° 0 | 28° 2 | 21°38  | 25° 9  | 25°57  | 26°28 | 24°12 | n.a. |
| M28  | 8 2 2   | 2°26'22  | 26° 4 | 7°35   | 18°47 | 3°56  | 22°18 | 13° 3 | 28° 5 | 21°37  | 25° 8  | 25°45  | 26°25 | 24°19 | n.a. |
| T 29 | 8 5 58  | 3°26'29  | 8♁37  | 8° 1   | 19°47 | 4°43  | 22°33 | 13° 6 | 28° 9 | 21°36  | 25° 6  | 25°35  | 26°22 | 24°25 | n.a. |
| W30  | 8 9 55  | 4°26'33  | 21°21 | 8°32   | 20°46 | 5°30  | 22°47 | 13° 9 | 28°12 | 21°35  | 25° 5  | 25°28  | 26°19 | 24°32 | n.a. |
| T 31 | 8 13 51 | 5♁26'36  | 4♁17  | 9☾ 8   | 21♁44 | 6☾16  | 23☾ 1 | 13♁12 | 28☾15 | 21♁34  | 25☾ 3  | 25♁24  | 26♁15 | 24♁39 | n.a. |

Delta T = 04h43m54s Julian Calendar 1 Jan. 518 BCE == Greg. Calendar 26 Dec. 519 BCE  
 The year -517 astronomical counting style corresponds to year 518 B.C.E historical counting style.

FEBRUARY 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♅      | ♁     | ♁      | ♁      | ♁      | ♁     | ♁     | ♁    |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|-------|-------|------|
| F 1  | 8 17 48 | 6♁26'37  | 17♁27 | 9☾48  | 22♁43 | 7☾ 3  | 23☾15 | 13♁14  | 28☾19 | 21°R33 | 25°R 2 | 25°R23 | 26♁12 | 24♁45 | n.a. |
| S 2  | 8 21 44 | 7°26'36  | 0♁53  | 10°31 | 23°40 | 7°50  | 23°29 | 13°17  | 28°22 | 21°32  | 25°46  | 25♁22  | 26° 9 | 24°52 | n.a. |
| S 3  | 8 25 41 | 8°26'33  | 14°37 | 11°19 | 24°37 | 8°36  | 23°44 | 13°19  | 28°26 | 21°31  | 24°59  | 25°22  | 26° 6 | 24°59 | n.a. |
| M 4  | 8 29 37 | 9°26'29  | 28°41 | 12°10 | 25°34 | 9°23  | 23°58 | 13°21  | 28°29 | 21°30  | 24°58  | 25°21  | 26° 3 | 25° 6 | n.a. |
| T 5  | 8 33 34 | 10°26'23 | 13♁ 4 | 13° 4 | 26°30 | 10°10 | 24°12 | 13°24  | 28°33 | 21°29  | 24°56  | 25°18  | 26° 0 | 25°12 | n.a. |
| W 6  | 8 37 31 | 11°26'15 | 27°44 | 14° 0 | 27°25 | 10°56 | 24°26 | 13°26  | 28°36 | 21°28  | 24°55  | 25°12  | 25°56 | 25°19 | n.a. |
| T 7  | 8 41 27 | 12°26'06 | 12☾35 | 15° 0 | 28°20 | 11°43 | 24°40 | 13°28  | 28°39 | 21°27  | 24°53  | 25° 3  | 25°53 | 25°26 | n.a. |
| F 8  | 8 45 24 | 13°25'54 | 27°31 | 16° 3 | 29°14 | 12°30 | 24°54 | 13°30  | 28°43 | 21°25  | 24°52  | 24°53  | 25°50 | 25°32 | n.a. |
| S 9  | 8 49 20 | 14°25'40 | 12♁21 | 17° 7 | 0♁ 8  | 13°17 | 25° 8 | 13°31  | 28°46 | 21°24  | 24°50  | 24°42  | 25°47 | 25°39 | n.a. |
| S 10 | 8 53 17 | 15°25'25 | 26°58 | 18°14 | 1° 1  | 14° 3 | 25°22 | 13°33  | 28°49 | 21°23  | 24°49  | 24°31  | 25°44 | 25°46 | n.a. |
| M11  | 8 57 13 | 16°25'07 | 11♁14 | 19°24 | 1°53  | 14°50 | 25°36 | 13°35  | 28°53 | 21°22  | 24°48  | 24°23  | 25°40 | 25°53 | n.a. |
| T 12 | 9 1 10  | 17°24'46 | 25° 3 | 20°35 | 2°45  | 15°37 | 25°50 | 13°36  | 28°56 | 21°20  | 24°46  | 24°17  | 25°37 | 25°59 | n.a. |
| W13  | 9 5 6   | 18°24'24 | 8♁26  | 21°48 | 3°35  | 16°23 | 26° 3 | 13°38  | 28°59 | 21°19  | 24°45  | 24°14  | 25°34 | 26° 6 | n.a. |
| T 14 | 9 9 3   | 19°23'59 | 21°22 | 23° 4 | 4°25  | 17°10 | 26°17 | 13°39  | 29° 3 | 21°18  | 24°44  | 24°D13 | 25°31 | 26°13 | n.a. |
| F 15 | 9 12 59 | 20°23'31 | 3♁55  | 24°21 | 5°15  | 17°57 | 26°31 | 13°40  | 29° 6 | 21°16  | 24°42  | 24°13  | 25°28 | 26°19 | n.a. |
| S 16 | 9 16 56 | 21°23'01 | 16°10 | 25°40 | 6° 3  | 18°43 | 26°45 | 13°42  | 29° 9 | 21°15  | 24°41  | 24°R13 | 25°25 | 26°26 | n.a. |
| S 17 | 9 20 53 | 22°22'29 | 28°11 | 27° 0 | 6°50  | 19°30 | 26°58 | 13°43  | 29°13 | 21°14  | 24°40  | 24°13  | 25°21 | 26°33 | n.a. |
| M18  | 9 24 49 | 23°21'55 | 10♁ 4 | 28°22 | 7°37  | 20°17 | 27°12 | 13°44  | 29°16 | 21°12  | 24°38  | 24°12  | 25°18 | 26°39 | n.a. |
| T 19 | 9 28 46 | 24°21'18 | 21°54 | 29°46 | 8°23  | 21° 4 | 27°26 | 13°44  | 29°19 | 21°11  | 24°37  | 24° 8  | 25°15 | 26°46 | n.a. |
| W20  | 9 32 42 | 25°20'38 | 3☾46  | 1♁11  | 9° 7  | 21°50 | 27°39 | 13°45  | 29°22 | 21°10  | 24°36  | 24° 2  | 25°12 | 26°53 | n.a. |
| T 21 | 9 36 39 | 26°19'57 | 15°43 | 2°38  | 9°51  | 22°37 | 27°53 | 13°46  | 29°25 | 21° 8  | 24°34  | 23°53  | 25° 9 | 27° 0 | n.a. |
| F 22 | 9 40 35 | 27°19'12 | 27°48 | 4° 7  | 10°33 | 23°24 | 28° 6 | 13°46  | 29°29 | 21° 7  | 24°33  | 23°43  | 25° 6 | 27° 6 | n.a. |
| S 23 | 9 44 32 | 28°18'26 | 10♁ 4 | 5°37  | 11°15 | 24°10 | 28°19 | 13°47  | 29°32 | 21° 5  | 24°32  | 23°33  | 25° 2 | 27°13 | n.a. |
| S 24 | 9 48 28 | 29°17'37 | 22°32 | 7° 8  | 11°55 | 24°57 | 28°33 | 13°47  | 29°35 | 21° 4  | 24°31  | 23°23  | 24°59 | 27°20 | n.a. |
| M25  | 9 52 25 | 0♁16'46  | 5♁12  | 8°41  | 12°34 | 25°43 | 28°46 | 13°48  | 29°38 | 21° 2  | 24°30  | 23°14  | 24°56 | 27°26 | n.a. |
| T 26 | 9 56 22 | 1°15'53  | 18° 4 | 10°15 | 13°12 | 26°30 | 28°59 | 13°48  | 29°41 | 21° 1  | 24°29  | 23° 7  | 24°53 | 27°33 | n.a. |
| W27  | 10 0 18 | 2°14'58  | 1♁ 8  | 11°51 | 13°49 | 27°17 | 29°13 | 13°R48 | 29°44 | 20°59  | 24°27  | 23° 2  | 24°50 | 27°40 | n.a. |
| T 28 | 10 4 15 | 3♁14'01  | 14♁24 | 13♁28 | 14♁24 | 28☾ 3 | 29☾26 | 13♁48  | 29☾47 | 20♁58  | 24☾26  | 23♁ 0  | 24♁46 | 27♁47 | n.a. |

Delta T = 04h43m52s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 518 BCE

MARCH 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♁      | ♂      | ♃     | ♄      | ♅     | ♆      | ♇      | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|----------|-------|--------|--------|--------|-------|--------|-------|--------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|---|--|
| F 1  | 10 8 11  | 4♋13'01  | 27♌50 | 15♍6   | 14♎58  | 28♏50  | 29♐39 | 13°R48 | 29♑50 | 20°R56 | 24°R25 | 23♒0   | 24♓43 | 27♔53 | n.a. |   |   |   |   |   |   |   |   |  |
| S 2  | 10 12 8  | 5°12'00  | 11♎28 | 16°46  | 15°31  | 29°37  | 29°52 | 13♎47  | 29°53 | 20♏55  | 24♐24  | 23°1   | 24°40 | 28°0  | n.a. |   |   |   |   |   |   |   |   |  |
| S 3  | 10 16 4  | 6°10'57  | 25°18 | 18°28  | 16°2   | 0♋23   | 0♋5   | 13°47  | 29°56 | 20°53  | 24°23  | 23°2   | 24°37 | 28°7  | n.a. |   |   |   |   |   |   |   |   |  |
| M 4  | 10 20 1  | 7°9'53   | 9♌19  | 20°10  | 16°32  | 1°10   | 0°18  | 13°47  | 29°59 | 20°51  | 24°22  | 23°R2  | 24°34 | 28°13 | n.a. |   |   |   |   |   |   |   |   |  |
| T 5  | 10 23 57 | 8°8'46   | 23°31 | 21°55  | 17°0   | 1°56   | 0°30  | 13°46  | 0♋2   | 20°50  | 24°21  | 23°1   | 24°31 | 28°20 | n.a. |   |   |   |   |   |   |   |   |  |
| W 6  | 10 27 54 | 9°7'38   | 7♌53  | 23°41  | 17°26  | 2°43   | 0°43  | 13°46  | 0°5   | 20°48  | 24°20  | 22°58  | 24°27 | 28°27 | n.a. |   |   |   |   |   |   |   |   |  |
| T 7  | 10 31 51 | 10°6'28  | 22°20 | 25°28  | 17°51  | 3°29   | 0°56  | 13°45  | 0°7   | 20°47  | 24°19  | 22°54  | 24°24 | 28°33 | n.a. |   |   |   |   |   |   |   |   |  |
| F 8  | 10 35 47 | 11°5'16  | 6♋48  | 27°17  | 18°14  | 4°16   | 1°9   | 13°44  | 0°10  | 20°45  | 24°18  | 22°48  | 24°21 | 28°40 | n.a. |   |   |   |   |   |   |   |   |  |
| S 9  | 10 39 44 | 12°4'02  | 21°12 | 29°7   | 18°35  | 5°2    | 1°21  | 13°43  | 0°13  | 20°43  | 24°17  | 22°41  | 24°18 | 28°47 | n.a. |   |   |   |   |   |   |   |   |  |
| S 10 | 10 43 40 | 13°2'46  | 5♋26  | 0♋59   | 18°54  | 5°49   | 1°34  | 13°42  | 0°16  | 20°42  | 24°16  | 22°35  | 24°15 | 28°54 | n.a. |   |   |   |   |   |   |   |   |  |
| M11  | 10 47 37 | 14°1'27  | 19°23 | 2°52   | 19°12  | 6°35   | 1°46  | 13°41  | 0°19  | 20°40  | 24°15  | 22°30  | 24°12 | 29°0  | n.a. |   |   |   |   |   |   |   |   |  |
| T 12 | 10 51 33 | 15°0'07  | 3♎1   | 4°47   | 19°27  | 7°22   | 1°58  | 13°40  | 0°21  | 20°39  | 24°14  | 22°26  | 24°8  | 29°7  | n.a. |   |   |   |   |   |   |   |   |  |
| W13  | 10 55 30 | 15°58'45 | 16°17 | 6°43   | 19°40  | 8°8    | 2°11  | 13°39  | 0°24  | 20°37  | 24°14  | 22°D25 | 24°5  | 29°14 | n.a. |   |   |   |   |   |   |   |   |  |
| T 14 | 10 59 26 | 16°57'20 | 29°11 | 8°41   | 19°52  | 8°54   | 2°23  | 13°37  | 0°27  | 20°35  | 24°13  | 22°25  | 24°2  | 29°20 | n.a. |   |   |   |   |   |   |   |   |  |
| F 15 | 11 3 23  | 17°55'53 | 11♌45 | 10°40  | 20°1   | 9°41   | 2°35  | 13°36  | 0°29  | 20°34  | 24°12  | 22°26  | 23°59 | 29°27 | n.a. |   |   |   |   |   |   |   |   |  |
| S 16 | 11 7 20  | 18°54'24 | 24°2  | 12°40  | 20°7   | 10°27  | 2°47  | 13°34  | 0°32  | 20°32  | 24°11  | 22°28  | 23°56 | 29°34 | n.a. |   |   |   |   |   |   |   |   |  |
| S 17 | 11 11 16 | 19°52'53 | 6♎6   | 14°42  | 20°12  | 11°13  | 2°59  | 13°33  | 0°34  | 20°30  | 24°11  | 22°29  | 23°52 | 29°41 | n.a. |   |   |   |   |   |   |   |   |  |
| M18  | 11 15 13 | 20°51'20 | 18°1  | 16°46  | 20°R14 | 12°0   | 3°11  | 13°31  | 0°37  | 20°29  | 24°10  | 22°R30 | 23°49 | 29°47 | n.a. |   |   |   |   |   |   |   |   |  |
| T 19 | 11 19 9  | 21°49'44 | 29°53 | 18°50  | 20°14  | 12°46  | 3°23  | 13°29  | 0°39  | 20°27  | 24°9   | 22°30  | 23°46 | 29°54 | n.a. |   |   |   |   |   |   |   |   |  |
| W20  | 11 23 6  | 22°48'06 | 11♌47 | 20°55  | 20°11  | 13°32  | 3°35  | 13°27  | 0°42  | 20°25  | 24°8   | 22°28  | 23°43 | 0♌1   | n.a. |   |   |   |   |   |   |   |   |  |
| T 21 | 11 27 2  | 23°46'26 | 23°46 | 23°2   | 20°6   | 14°18  | 3°46  | 13°25  | 0°44  | 20°24  | 24°8   | 22°25  | 23°40 | 0°7   | n.a. |   |   |   |   |   |   |   |   |  |
| F 22 | 11 30 59 | 24°44'43 | 5♎56  | 25°9   | 19°58  | 15°5   | 3°58  | 13°23  | 0°46  | 20°22  | 24°7   | 22°21  | 23°37 | 0°14  | n.a. |   |   |   |   |   |   |   |   |  |
| S 23 | 11 34 55 | 25°42'59 | 18°18 | 27°17  | 19°48  | 15°51  | 4°9   | 13°21  | 0°49  | 20°21  | 24°7   | 22°17  | 23°33 | 0°21  | n.a. |   |   |   |   |   |   |   |   |  |
| S 24 | 11 38 52 | 26°41'12 | 0♎56  | 29°25  | 19°36  | 16°37  | 4°21  | 13°19  | 0°51  | 20°19  | 24°6   | 22°13  | 23°30 | 0°28  | n.a. |   |   |   |   |   |   |   |   |  |
| M25  | 11 42 48 | 27°39'23 | 13°50 | 1°V34  | 19°21  | 17°23  | 4°32  | 13°16  | 0°53  | 20°17  | 24°6   | 22°9   | 23°27 | 0°34  | n.a. |   |   |   |   |   |   |   |   |  |
| T 26 | 11 46 45 | 28°37'33 | 27°1  | 3°42   | 19°3   | 18°9   | 4°43  | 13°14  | 0°56  | 20°16  | 24°5   | 22°7   | 23°24 | 0°41  | n.a. |   |   |   |   |   |   |   |   |  |
| W27  | 11 50 42 | 29°35'40 | 10♌27 | 5°50   | 18°44  | 18°55  | 4°54  | 13°11  | 0°58  | 20°14  | 24°5   | 22°5   | 23°21 | 0°48  | n.a. |   |   |   |   |   |   |   |   |  |
| T 28 | 11 54 38 | 0°V33'46 | 24°8  | 7°57   | 18°21  | 19°41  | 5°5   | 13°9   | 1°0   | 20°12  | 24°4   | 22°D5  | 23°17 | 0°54  | n.a. |   |   |   |   |   |   |   |   |  |
| F 29 | 11 58 35 | 1°31'50  | 7♎59  | 10°4   | 17°57  | 20°27  | 5°16  | 13°6   | 1°2   | 20°11  | 24°4   | 22°5   | 23°14 | 1°1   | n.a. |   |   |   |   |   |   |   |   |  |
| S 30 | 12 2 31  | 2°29'53  | 22°0  | 12°9   | 17°31  | 21°13  | 5°27  | 13°3   | 1°4   | 20°9   | 24°3   | 22°6   | 23°11 | 1°8   | n.a. |   |   |   |   |   |   |   |   |  |
| S 31 | 12 6 28  | 3°V27'54 | 6♌8   | 14°V12 | 17°V2  | 21°V59 | 5°V38 | 13♎1   | 1°V6  | 20♏8   | 24♐3   | 22°V8  | 23°V8 | 1♌15  | n.a. |   |   |   |   |   |   |   |   |  |

Delta T = 04h43m51s Julian Calendar 1 March 518 BCE == Greg. Calendar 23 Feb. 518 BCE  
 The year -517 astronomical counting style corresponds to year 518 B.C.E historical counting style.

APRIL 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀      | ♁      | ♂      | ♃     | ♄      | ♅    | ♆     | ♇     | ♈     | ♉     | ♊    | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|----------|--------|--------|--------|--------|-------|--------|------|-------|-------|-------|-------|------|------|---|---|---|---|---|---|---|---|--|
| M 1  | 12 10 24 | 4°V25'53 | 20♌19  | 16°V14 | 16°R32 | 22°V44 | 5°V48 | 12°R58 | 1°V8 | 20°R6 | 24°R3 | 22°V9 | 23°V5 | 1♌21 | n.a. |   |   |   |   |   |   |   |   |  |
| T 2  | 12 14 21 | 5°23'51  | 4♌33   | 18°13  | 16°V0  | 23°30  | 5°59  | 12°V55 | 1°10 | 20°V5 | 24°V2 | 22°R9 | 23°2  | 1°28 | n.a. |   |   |   |   |   |   |   |   |  |
| W 3  | 12 18 17 | 6°21'48  | 18°46  | 20°11  | 15°27  | 24°16  | 6°9   | 12°52  | 1°12 | 20°3  | 24°2  | 22°9  | 22°58 | 1°35 | n.a. |   |   |   |   |   |   |   |   |  |
| T 4  | 12 22 14 | 7°19'43  | 2♋56   | 22°5   | 14°52  | 25°2   | 6°19  | 12°49  | 1°14 | 20°1  | 24°2  | 22°8  | 22°55 | 1°41 | n.a. |   |   |   |   |   |   |   |   |  |
| F 5  | 12 26 11 | 8°17'37  | 1°0    | 23°57  | 14°16  | 25°48  | 6°30  | 12°45  | 1°16 | 20°0  | 24°2  | 22°6  | 22°52 | 1°48 | n.a. |   |   |   |   |   |   |   |   |  |
| S 6  | 12 30 7  | 9°15'30  | 0♋56   | 25°45  | 13°40  | 26°33  | 6°40  | 12°42  | 1°17 | 19°58 | 24°1  | 22°5  | 22°49 | 1°55 | n.a. |   |   |   |   |   |   |   |   |  |
| S 7  | 12 34 4  | 10°13'21 | 14°41  | 27°31  | 13°2   | 27°19  | 6°50  | 12°39  | 1°19 | 19°57 | 24°1  | 22°3  | 22°46 | 2°2  | n.a. |   |   |   |   |   |   |   |   |  |
| M 8  | 12 38 0  | 11°11'10 | 28°13  | 29°13  | 12°25  | 28°4   | 6°59  | 12°36  | 1°21 | 19°55 | 24°1  | 22°2  | 22°43 | 2°8  | n.a. |   |   |   |   |   |   |   |   |  |
| T 9  | 12 41 57 | 12°8'58  | 11°V29 | 0♌52   | 11°47  | 28°50  | 7°9   | 12°32  | 1°22 | 19°54 | 24°1  | 22°1  | 22°39 | 2°15 | n.a. |   |   |   |   |   |   |   |   |  |
| W10  | 12 45 53 | 13°6'45  | 24°29  | 2°28   | 11°9   | 29°36  | 7°19  | 12°29  | 1°24 | 19°52 | 24°1  | 22°D1 | 22°36 | 2°22 | n.a. |   |   |   |   |   |   |   |   |  |
| T 11 | 12 49 50 | 14°4'30  | 7♌13   | 4°0    | 10°31  | 0♋21   | 7°28  | 12°25  | 1°26 | 19°51 | 24°1  | 22°1  | 22°33 | 2°28 | n.a. |   |   |   |   |   |   |   |   |  |
| F 12 | 12 53 46 | 15°2'13  | 19°41  | 5°28   | 9°54   | 1°6    | 7°38  | 12°21  | 1°27 | 19°49 | 24°D1 | 22°2  | 22°30 | 2°35 | n.a. |   |   |   |   |   |   |   |   |  |
| S 13 | 12 57 43 | 15°59'55 | 1♎55   | 6°53   | 9°18   | 1°52   | 7°47  | 12°18  | 1°28 | 19°48 | 24°1  | 22°3  | 22°27 | 2°42 | n.a. |   |   |   |   |   |   |   |   |  |
| S 14 | 13 1 40  | 16°57'35 | 13°58  | 8°14   | 8°43   | 2°37   | 7°56  | 12°14  | 1°30 | 19°47 | 24°1  | 22°3  | 22°23 | 2°49 | n.a. |   |   |   |   |   |   |   |   |  |
| M15  | 13 5 36  | 17°55'13 | 25°54  | 9°32   | 8°9    | 3°22   | 8°5   | 12°10  | 1°31 | 19°45 | 24°1  | 22°4  | 22°20 | 2°55 | n.a. |   |   |   |   |   |   |   |   |  |
| T 16 | 13 9 33  | 18°52'50 | 7♌47   | 10°45  | 7°36   | 4°8    | 8°14  | 12°6   | 1°33 | 19°44 | 24°1  | 22°4  | 22°17 | 3°2  | n.a. |   |   |   |   |   |   |   |   |  |
| W17  | 13 13 29 | 19°50'25 | 19°41  | 11°55  | 7°5    | 4°53   | 8°23  | 12°3   | 1°34 | 19°42 | 24°1  | 22°R4 | 22°14 | 3°9  | n.a. |   |   |   |   |   |   |   |   |  |
| T 18 | 13 17 26 | 20°47'59 | 1♎41   | 13°0   | 6°36   | 5°38   | 8°31  | 11°59  | 1°35 | 19°41 | 24°1  | 22°4  | 22°11 | 3°15 | n.a. |   |   |   |   |   |   |   |   |  |
| F 19 | 13 21 22 | 21°45'31 | 13°51  | 14°2   | 6°9    | 6°23   | 8°40  | 11°55  | 1°36 | 19°40 | 24°2  | 22°D4 | 22°8  | 3°22 | n.a. |   |   |   |   |   |   |   |   |  |
| S 20 | 13 25 19 | 22°43'02 | 26°15  | 15°0   | 5°43   | 7°8    | 8°48  | 11°51  | 1°37 | 19°38 | 24°2  | 22°4  | 22°4  | 3°29 | n.a. |   |   |   |   |   |   |   |   |  |
| S 21 | 13 29 15 | 23°40'31 | 8♎57   | 15°53  | 5°20   | 7°53   | 8°57  | 11°47  | 1°39 | 19°37 | 24°2  | 22°4  | 22°1  | 3°36 | n.a. |   |   |   |   |   |   |   |   |  |
| M22  | 13 33 12 | 24°37'58 |        |        |        |        |       |        |      |       |       |       |       |      |      |   |   |   |   |   |   |   |   |  |

SWISS EPHEMERIS for the year 518 BCE

MAY 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♅      | ♁     | ♁      | ♁     | ♁      | ♁     | ♁    | ♁    |
|------|----------|----------|-------|--------|-------|-------|-------|--------|-------|--------|-------|--------|-------|------|------|
| W 1  | 14 8 41  | 3♁14'17  | 29♁46 | 20♁47  | 3♁37  | 15♁20 | 10♁11 | 11°R 5 | 1♁47  | 19°R25 | 24♁6  | 22♁1   | 21♁29 | 4♁43 | n.a. |
| T 2  | 14 12 37 | 4°11'35  | 13♁49 | 20°R51 | 3°40  | 16° 4 | 10°18 | 11♁0   | 1°48  | 19♁24  | 24° 7 | 22° 1  | 21°26 | 4°49 | n.a. |
| F 3  | 14 16 34 | 5° 8'52  | 27°38 | 20°51  | 3°45  | 16°49 | 10°25 | 10°56  | 1°48  | 19°23  | 24° 7 | 22° 1  | 21°23 | 4°56 | n.a. |
| S 4  | 14 20 31 | 6° 6'09  | 11♁13 | 20°46  | 3°52  | 17°33 | 10°31 | 10°52  | 1°49  | 19°22  | 24° 8 | 22° 2  | 21°20 | 5° 3 | n.a. |
| S 5  | 14 24 27 | 7° 3'25  | 24°34 | 20°37  | 4° 2  | 18°17 | 10°37 | 10°47  | 1°49  | 19°21  | 24° 9 | 22° 4  | 21°17 | 5°10 | n.a. |
| M 6  | 14 28 24 | 8° 0'41  | 7♁40  | 20°24  | 4°13  | 19° 2 | 10°43 | 10°43  | 1°49  | 19°20  | 24° 9 | 22° 5  | 21°14 | 5°16 | n.a. |
| T 7  | 14 32 20 | 8°57'56  | 20°34 | 20° 7  | 4°27  | 19°46 | 10°49 | 10°38  | 1°50  | 19°19  | 24°10 | 22°R 5 | 21°10 | 5°23 | n.a. |
| W 8  | 14 36 17 | 9°55'11  | 3♁14  | 19°46  | 4°42  | 20°30 | 10°55 | 10°34  | 1°50  | 19°18  | 24°11 | 22° 5  | 21° 7 | 5°30 | n.a. |
| T 9  | 14 40 13 | 10°52'24 | 15°43 | 19°22  | 5° 0  | 21°14 | 11° 0 | 10°30  | 1°50  | 19°17  | 24°12 | 22° 3  | 21° 4 | 5°36 | n.a. |
| F 10 | 14 44 10 | 11°49'38 | 28° 0 | 18°55  | 5°19  | 21°58 | 11° 6 | 10°25  | 1°50  | 19°17  | 24°12 | 22° 1  | 21° 1 | 5°43 | n.a. |
| S 11 | 14 48 6  | 12°46'50 | 10♁8  | 18°26  | 5°40  | 22°41 | 11°11 | 10°21  | 1°51  | 19°16  | 24°13 | 21°58  | 20°58 | 5°50 | n.a. |
| S 12 | 14 52 3  | 13°44'02 | 22° 8 | 17°55  | 6° 3  | 23°25 | 11°16 | 10°16  | 1°51  | 19°15  | 24°14 | 21°55  | 20°54 | 5°57 | n.a. |
| M13  | 14 56 0  | 14°41'13 | 4♁2   | 17°22  | 6°28  | 24° 9 | 11°21 | 10°12  | 1°R51 | 19°14  | 24°15 | 21°51  | 20°51 | 6° 3 | n.a. |
| T 14 | 14 59 56 | 15°38'23 | 15°54 | 16°48  | 6°54  | 24°53 | 11°26 | 10° 8  | 1°51  | 19°13  | 24°16 | 21°48  | 20°48 | 6°10 | n.a. |
| W15  | 15 3 53  | 16°35'33 | 27°47 | 16°14  | 7°21  | 25°36 | 11°30 | 10° 3  | 1°51  | 19°13  | 24°17 | 21°46  | 20°45 | 6°17 | n.a. |
| T 16 | 15 7 49  | 17°32'41 | 9♁46  | 15°40  | 7°51  | 26°20 | 11°35 | 9°59   | 1°51  | 19°12  | 24°18 | 21°45  | 20°42 | 6°24 | n.a. |
| F 17 | 15 11 46 | 18°29'49 | 21°54 | 15° 7  | 8°21  | 27° 3 | 11°39 | 9°55   | 1°50  | 19°11  | 24°19 | 21°D44 | 20°39 | 6°30 | n.a. |
| S 18 | 15 15 42 | 19°26'57 | 4♁16  | 14°36  | 8°53  | 27°47 | 11°43 | 9°50   | 1°50  | 19°11  | 24°20 | 21°45  | 20°35 | 6°37 | n.a. |
| S 19 | 15 19 39 | 20°24'03 | 16°56 | 14° 6  | 9°27  | 28°30 | 11°47 | 9°46   | 1°50  | 19°10  | 24°21 | 21°46  | 20°32 | 6°44 | n.a. |
| M20  | 15 23 35 | 21°21'10 | 0♁0   | 13°39  | 10° 1 | 29°13 | 11°50 | 9°42   | 1°50  | 19°10  | 24°22 | 21°48  | 20°29 | 6°50 | n.a. |
| T 21 | 15 27 32 | 22°18'15 | 13°28 | 13°15  | 10°37 | 29°56 | 11°54 | 9°37   | 1°49  | 19° 9  | 24°23 | 21°49  | 20°26 | 6°57 | n.a. |
| W22  | 15 31 29 | 23°15'20 | 27°22 | 12°54  | 11°14 | 0♁39  | 11°57 | 9°33   | 1°49  | 19° 8  | 24°24 | 21°R49 | 20°23 | 7° 4 | n.a. |
| T 23 | 15 35 25 | 24°12'25 | 11♁40 | 12°37  | 11°52 | 1°22  | 12° 0 | 9°29   | 1°49  | 19° 8  | 24°25 | 21°48  | 20°19 | 7°11 | n.a. |
| F 24 | 15 39 22 | 25° 9'30 | 26°20 | 12°24  | 12°32 | 2° 5  | 12° 3 | 9°25   | 1°48  | 19° 8  | 24°26 | 21°45  | 20°16 | 7°17 | n.a. |
| S 25 | 15 43 18 | 26° 6'34 | 11♁13 | 12°15  | 13°12 | 2°48  | 12° 6 | 9°21   | 1°48  | 19° 7  | 24°27 | 21°41  | 20°13 | 7°24 | n.a. |
| S 26 | 15 47 15 | 27° 3'38 | 26°11 | 12°D10 | 13°53 | 3°31  | 12° 9 | 9°17   | 1°47  | 19° 7  | 24°28 | 21°36  | 20°10 | 7°31 | n.a. |
| M27  | 15 51 11 | 28° 0'43 | 11♁7  | 12°10  | 14°36 | 4°14  | 12°11 | 9°13   | 1°46  | 19° 6  | 24°30 | 21°31  | 20° 7 | 7°37 | n.a. |
| T 28 | 15 55 8  | 28°57'48 | 25°51 | 12°15  | 15°19 | 4°56  | 12°13 | 9° 9   | 1°46  | 19° 6  | 24°31 | 21°27  | 20° 4 | 7°44 | n.a. |
| W29  | 15 59 4  | 29°54'52 | 10♁19 | 12°25  | 16° 3 | 5°39  | 12°15 | 9° 5   | 1°45  | 19° 6  | 24°32 | 21°24  | 20° 0 | 7°51 | n.a. |
| T 30 | 16 3 1   | 0♁51'58  | 24°25 | 12°40  | 16°49 | 6°21  | 12°17 | 9° 1   | 1°44  | 19° 5  | 24°33 | 21°22  | 19°57 | 7°58 | n.a. |
| F 31 | 16 6 58  | 1♁49'03  | 8♁10  | 13♁0   | 17♁35 | 7♁4   | 12♁19 | 8♁57   | 1♁43  | 19♁5   | 24♁35 | 21°D22 | 19♁54 | 8♁4  | n.a. |

Delta T = 04h43m47s Julian Calendar 1 May 518 BCE == Greg. Calendar 25 Apr. 518 BCE

The year -517 astronomical counting style corresponds to year 518 B.C.E historical counting style.

JUNE 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♁     | ♂     | ♃      | ♅     | ♁     | ♁      | ♁     | ♁      | ♁     | ♁     | ♁    |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|--------|-------|-------|------|
| S 1  | 16 10 54 | 2♁46'09  | 21♁34 | 13♁24 | 18♁21 | 7♁46  | 12♁20  | 8°R53 | 1°R43 | 19°R 5 | 24♁36 | 21♁23  | 19♁51 | 8♁11  | n.a. |
| S 2  | 16 14 51 | 3°43'15  | 4♁39  | 13°54 | 19° 9 | 8°29  | 12°22  | 8♁49  | 1♁42  | 19♁5   | 24°37 | 21°25  | 19°48 | 8°18  | n.a. |
| M 3  | 16 18 47 | 4°40'21  | 17°27 | 14°28 | 19°57 | 9°11  | 12°23  | 8°45  | 1°41  | 19° 5  | 24°39 | 21°R26 | 19°45 | 8°24  | n.a. |
| T 4  | 16 22 44 | 5°37'28  | 0♁2   | 15° 7 | 20°46 | 9°53  | 12°24  | 8°42  | 1°40  | 19° 5  | 24°40 | 21°25  | 19°41 | 8°31  | n.a. |
| W 5  | 16 26 40 | 6°34'35  | 12°25 | 15°52 | 21°36 | 10°35 | 12°24  | 8°38  | 1°39  | 19° 5  | 24°42 | 21°23  | 19°38 | 8°38  | n.a. |
| T 6  | 16 30 37 | 7°31'43  | 24°39 | 16°40 | 22°27 | 11°17 | 12°25  | 8°35  | 1°38  | 19° 4  | 24°43 | 21°19  | 19°35 | 8°45  | n.a. |
| F 7  | 16 34 33 | 8°28'51  | 6♁46  | 17°34 | 23°18 | 11°59 | 12°25  | 8°31  | 1°37  | 19°D 4 | 24°45 | 21°13  | 19°32 | 8°51  | n.a. |
| S 8  | 16 38 30 | 9°25'59  | 18°46 | 18°32 | 24°10 | 12°41 | 12°R25 | 8°28  | 1°35  | 19° 4  | 24°46 | 21° 5  | 19°29 | 8°58  | n.a. |
| S 9  | 16 42 27 | 10°23'08 | 0♁41  | 19°35 | 25° 2 | 13°22 | 12°25  | 8°24  | 1°34  | 19° 5  | 24°48 | 20°56  | 19°25 | 9° 5  | n.a. |
| M10  | 16 46 23 | 11°20'17 | 12°33 | 20°42 | 25°55 | 14° 4 | 12°25  | 8°21  | 1°33  | 19° 5  | 24°49 | 20°46  | 19°22 | 9°12  | n.a. |
| T 11 | 16 50 20 | 12°17'26 | 24°25 | 21°54 | 26°48 | 14°45 | 12°24  | 8°18  | 1°32  | 19° 5  | 24°51 | 20°38  | 19°19 | 9°18  | n.a. |
| W12  | 16 54 16 | 13°14'36 | 6♁17  | 23°10 | 27°42 | 15°27 | 12°24  | 8°14  | 1°30  | 19° 5  | 24°52 | 20°30  | 19°16 | 9°25  | n.a. |
| T 13 | 16 58 13 | 14°11'45 | 18°15 | 24°30 | 28°37 | 16° 8 | 12°23  | 8°11  | 1°29  | 19° 5  | 24°54 | 20°25  | 19°13 | 9°32  | n.a. |
| F 14 | 17 2 9   | 15° 8'55 | 0♁21  | 25°55 | 29°32 | 16°49 | 12°22  | 8° 8  | 1°28  | 19° 5  | 24°55 | 20°22  | 19°10 | 9°38  | n.a. |
| S 15 | 17 6 6   | 16° 6'06 | 12°40 | 27°24 | 0♁27  | 17°31 | 12°20  | 8° 5  | 1°26  | 19° 5  | 24°57 | 20°D20 | 19° 6 | 9°45  | n.a. |
| S 16 | 17 10 2  | 17° 3'16 | 25°17 | 28°56 | 1°23  | 18°12 | 12°19  | 8° 2  | 1°25  | 19° 6  | 24°58 | 20°21  | 19° 3 | 9°52  | n.a. |
| M17  | 17 13 59 | 18° 0'27 | 8♁16  | 0♁33  | 2°20  | 18°53 | 12°17  | 7°59  | 1°23  | 19° 6  | 25° 0 | 20°21  | 19° 0 | 9°59  | n.a. |
| T 18 | 17 17 56 | 18°57'38 | 21°40 | 2°14  | 3°17  | 19°34 | 12°15  | 7°57  | 1°22  | 19° 6  | 25° 2 | 20°R22 | 18°57 | 10° 5 | n.a. |
| W19  | 17 21 52 | 19°54'50 | 5♁33  | 3°58  | 4°14  | 20°14 | 12°13  | 7°54  | 1°20  | 19° 7  | 25° 3 | 20°21  | 18°54 | 10°12 | n.a. |
| T 20 | 17 25 49 | 20°52'02 | 19°54 | 5°45  | 5°12  | 20°55 | 12°11  | 7°51  | 1°19  | 19° 7  | 25° 5 | 20°18  | 18°51 | 10°19 | n.a. |
| F 21 | 17 29 45 | 21°49'15 | 4♁41  | 7°35  | 6°10  | 21°36 | 12° 9  | 7°49  | 1°17  | 19° 8  | 25° 7 | 20°12  | 18°47 | 10°25 | n.a. |
| S 22 | 17 33 42 | 22°46'28 | 19°47 | 9°29  | 7° 9  | 22°16 | 12° 6  | 7°46  | 1°15  | 19° 8  | 25° 9 | 20° 5  | 18°44 | 10°32 | n.a. |
| S 23 | 17 37 38 | 23°43'43 | 5♁3   | 11°25 | 8° 8  | 22°57 | 12° 3  | 7°44  | 1°13  | 19° 9  | 25°10 | 19°56  | 18°41 | 10°39 | n.a. |
| M24  | 17 41 35 | 24°40'58 | 20°17 | 13°23 | 9° 7  | 23°37 | 12° 0  | 7°41  | 1°12  | 19° 9  | 25°12 | 19°47  | 18°38 | 10°46 | n.a. |
| T 25 | 17 45 31 | 25°38'14 | 5♁20  | 15°24 | 10° 7 | 24°17 | 11°57  | 7°39  | 1°10  | 19°10  | 25°14 | 19°39  | 18°35 | 10°52 | n.a. |
| W26  | 17 49 28 | 26°35'31 | 20° 2 | 17°26 | 11° 7 | 24°57 | 11°54  | 7°37  | 1° 8  | 19°10  | 25°16 | 19°32  | 18°31 | 10°59 | n.a. |
| T 27 | 17 53 25 | 27°32'49 | 4♁18  | 19°29 | 12° 7 | 25°37 | 11°51  | 7°35  | 1° 6  | 19°11  | 25°17 | 19°28  | 18°28 | 11° 6 | n.a. |
| F 28 | 17 57 21 | 28°30'09 | 18° 8 | 21°33 | 13° 8 | 26°17 | 11°47  | 7°33  | 1° 4  | 19°12  | 25°19 | 19°26  | 18°25 | 11°13 | n.a. |
| S 29 | 18 1 18  | 29°27'30 | 1♁30  | 23°38 | 14° 9 | 26°57 | 11°43  | 7°31  | 1° 2  | 19°12  | 25°21 | 19°D25 | 18°22 | 11°19 | n.a. |
| S 30 | 18 5 14  | 0♁24'52  | 14♁29 | 25♁44 | 15♁10 | 27♁37 | 11♁39  | 7♁29  | 1♁1   | 19♁13  | 25♁23 | 19°R26 | 18♁19 | 11♁26 | n.a. |

Delta T = 04h43m45s

Julian Calendar

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SWISS EPHEMERIS for the year 518 BCE

JULY 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀      | ♁      | ♂      | ♃      | ♄     | ♅     | ♆      | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|--------|--------|--------|--------|--------|-------|-------|--------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| M 1  | 18 9 11  | 1522'15  | 27°Y 9 | 27II49 | 16812  | 28°Y16 | 11°R35 | 7°R28 | 0°R59 | 19°M14 | 25225 | 19°R26 | 18216 | 11233 | n.a. |   |   |   |   |   |   |   |   |
| T 2  | 18 13 7  | 2°19'40  | 9833   | 29°55  | 17°14  | 28°56  | 11230  | 7M26  | 0257  | 19°15  | 25°26 | 19224  | 18°12 | 11°39 | n.a. |   |   |   |   |   |   |   |   |
| W 3  | 18 17 4  | 3°17'07  | 21°45  | 220    | 18°16  | 29°35  | 11°26  | 7°24  | 0°55  | 19°15  | 25°28 | 19°20  | 18° 9 | 11°46 | n.a. |   |   |   |   |   |   |   |   |
| T 4  | 18 21 0  | 4°14'34  | 3II48  | 4° 4   | 19°19  | 0815   | 11°21  | 7°23  | 0°53  | 19°16  | 25°30 | 19°13  | 18° 6 | 11°53 | n.a. |   |   |   |   |   |   |   |   |
| F 5  | 18 24 57 | 5°12'03  | 15°46  | 6° 7   | 20°22  | 0°54   | 11°16  | 7°22  | 0°50  | 19°17  | 25°32 | 19° 4  | 18° 3 | 12° 0 | n.a. |   |   |   |   |   |   |   |   |
| S 6  | 18 28 54 | 6° 9'33  | 27°40  | 8°10   | 21°25  | 1°33   | 11°11  | 7°20  | 0°48  | 19°18  | 25°34 | 18°52  | 18° 0 | 12° 6 | n.a. |   |   |   |   |   |   |   |   |
| S 7  | 18 32 50 | 7° 7'05  | 9233   | 10°11  | 22°28  | 2°12   | 11° 6  | 7°19  | 0°46  | 19°19  | 25°36 | 18°38  | 17°57 | 12°13 | n.a. |   |   |   |   |   |   |   |   |
| M 8  | 18 36 47 | 8° 4'37  | 21°24  | 12°12  | 23°32  | 2°51   | 11° 0  | 7°18  | 0°44  | 19°20  | 25°38 | 18°25  | 17°53 | 12°20 | n.a. |   |   |   |   |   |   |   |   |
| T 9  | 18 40 43 | 9° 2'11  | 3II17  | 14°11  | 24°36  | 3°29   | 10°55  | 7°17  | 0°42  | 19°21  | 25°40 | 18°12  | 17°50 | 12°27 | n.a. |   |   |   |   |   |   |   |   |
| W10  | 18 44 40 | 9°59'46  | 15°13  | 16° 9  | 25°40  | 4° 8   | 10°49  | 7°16  | 0°40  | 19°22  | 25°42 | 18° 0  | 17°47 | 12°33 | n.a. |   |   |   |   |   |   |   |   |
| T 11 | 18 48 36 | 10°57'22 | 27°13  | 18° 5  | 26°44  | 4°47   | 10°43  | 7°15  | 0°38  | 19°23  | 25°43 | 17°52  | 17°44 | 12°40 | n.a. |   |   |   |   |   |   |   |   |
| F 12 | 18 52 33 | 11°55'00 | 9M21   | 20° 0  | 27°48  | 5°25   | 10°37  | 7°15  | 0°35  | 19°24  | 25°45 | 17°46  | 17°41 | 12°47 | n.a. |   |   |   |   |   |   |   |   |
| S 13 | 18 56 29 | 12°52'38 | 21°40  | 21°53  | 28°53  | 6° 3   | 10°31  | 7°14  | 0°33  | 19°25  | 25°47 | 17°42  | 17°37 | 12°53 | n.a. |   |   |   |   |   |   |   |   |
| S 14 | 19 0 26  | 13°50'18 | 4215   | 23°46  | 29°58  | 6°41   | 10°25  | 7°13  | 0°31  | 19°26  | 25°49 | 17°41  | 17°34 | 13° 0 | n.a. |   |   |   |   |   |   |   |   |
| M15  | 19 4 23  | 14°47'59 | 17° 9  | 25°36  | 1II 3  | 7°19   | 10°19  | 7°13  | 0°29  | 19°27  | 25°51 | 17°41  | 17°31 | 13° 7 | n.a. |   |   |   |   |   |   |   |   |
| T 16 | 19 8 19  | 15°45'41 | 0M27   | 27°26  | 2° 9   | 7°57   | 10°12  | 7°13  | 0°26  | 19°29  | 25°53 | 17°41  | 17°28 | 13°14 | n.a. |   |   |   |   |   |   |   |   |
| W17  | 19 12 16 | 16°43'24 | 14°12  | 29°13  | 3°14   | 8°35   | 10° 6  | 7°12  | 0°24  | 19°30  | 25°55 | 17°39  | 17°25 | 13°20 | n.a. |   |   |   |   |   |   |   |   |
| T 18 | 19 16 12 | 17°41'09 | 28°26  | 12 0   | 4°20   | 9°13   | 9°59   | 7°12  | 0°22  | 19°31  | 25°57 | 17°35  | 17°22 | 13°27 | n.a. |   |   |   |   |   |   |   |   |
| F 19 | 19 20 9  | 18°38'55 | 1327   | 7 2°45 | 5°26   | 9°50   | 9°52   | 7°D12 | 0°19  | 19°32  | 25°59 | 17°29  | 17°18 | 13°34 | n.a. |   |   |   |   |   |   |   |   |
| S 20 | 19 24 5  | 19°36'42 | 28°10  | 4°29   | 6°32   | 10°27  | 9°45   | 7°12  | 0°17  | 19°34  | 26° 1 | 17°20  | 17°15 | 13°40 | n.a. |   |   |   |   |   |   |   |   |
| S 21 | 19 28 2  | 20°34'31 | 1327   | 6°11   | 7°39   | 11° 5  | 9°38   | 7°12  | 0°15  | 19°35  | 26° 3 | 17°10  | 17°12 | 13°47 | n.a. |   |   |   |   |   |   |   |   |
| M22  | 19 31 58 | 21°32'21 | 28°47  | 7°52   | 8°45   | 11°42  | 9°31   | 7°13  | 0°12  | 19°36  | 26° 5 | 16°59  | 17° 9 | 13°54 | n.a. |   |   |   |   |   |   |   |   |
| T 23 | 19 35 55 | 22°30'13 | 13259  | 9°31   | 9°52   | 12°19  | 9°24   | 7°13  | 0°10  | 19°38  | 26° 7 | 16°49  | 17° 6 | 14° 1 | n.a. |   |   |   |   |   |   |   |   |
| W24  | 19 39 52 | 23°28'07 | 28°51  | 11° 9  | 10°59  | 12°56  | 9°17   | 7°13  | 0° 8  | 19°39  | 26° 9 | 16°41  | 17° 3 | 14° 7 | n.a. |   |   |   |   |   |   |   |   |
| T 25 | 19 43 48 | 24°26'02 | 132818 | 12°46  | 12° 6  | 13°32  | 9° 9   | 7°14  | 0° 5  | 19°41  | 26°11 | 16°35  | 16°59 | 14°14 | n.a. |   |   |   |   |   |   |   |   |
| F 26 | 19 47 45 | 25°24'00 | 27°15  | 14°22  | 13°13  | 14° 9  | 9° 2   | 7°15  | 0° 3  | 19°42  | 26°13 | 16°32  | 16°56 | 14°21 | n.a. |   |   |   |   |   |   |   |   |
| S 27 | 19 51 41 | 26°21'59 | 10Y43  | 15°56  | 14°21  | 14°45  | 8°54   | 7°15  | 0° 0  | 19°44  | 26°15 | 16°31  | 16°53 | 14°28 | n.a. |   |   |   |   |   |   |   |   |
| S 28 | 19 55 38 | 27°20'01 | 23°45  | 17°29  | 15°28  | 15°22  | 8°47   | 7°16  | 29258 | 19°45  | 26°17 | 16°31  | 16°50 | 14°34 | n.a. |   |   |   |   |   |   |   |   |
| M29  | 19 59 34 | 28°18'04 | 623    | 19° 0  | 16°36  | 15°58  | 8°39   | 7°17  | 29°56 | 19°47  | 26°19 | 16°31  | 16°47 | 14°41 | n.a. |   |   |   |   |   |   |   |   |
| T 30 | 20 3 31  | 29°16'10 | 18°44  | 20°30  | 17°44  | 16°34  | 8°31   | 7°18  | 29°53 | 19°48  | 26°21 | 16°30  | 16°43 | 14°48 | n.a. |   |   |   |   |   |   |   |   |
| W31  | 20 7 27  | 0214'18  | 0II51  | 21259  | 18II52 | 17210  | 8223   | 7M19  | 29251 | 19M50  | 26223 | 16226  | 16240 | 14254 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 04h43m43s Julian Calendar 1 July 518 BCE == Greg. Calendar 25 June 518 BCE

The year -517 astronomical counting style corresponds to year 518 B.C.E historical counting style.

AUGUST 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀      | ♁      | ♂     | ♃     | ♄    | ♅      | ♆      | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|--------|--------|--------|-------|-------|------|--------|--------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| T 1  | 20 11 24 | 1212'27  | 12II50 | 23227  | 20II 1 | 17245 | 8°R16 | 7M20 | 29°R49 | 19°M51 | 26225 | 16°R20 | 16237 | 1521  | n.a. |   |   |   |   |   |   |   |   |
| F 2  | 20 15 21 | 2°10'39  | 24°44  | 24°53  | 21° 9  | 18°21 | 828   | 7°22 | 29246  | 19°53  | 26°27 | 16211  | 16°34 | 15° 8 | n.a. |   |   |   |   |   |   |   |   |
| S 3  | 20 19 17 | 3° 8'53  | 6235   | 26°18  | 22°18  | 18°56 | 8° 0  | 7°23 | 29°44  | 19°55  | 26°29 | 15°59  | 16°31 | 15°15 | n.a. |   |   |   |   |   |   |   |   |
| S 4  | 20 23 14 | 4° 7'09  | 18°27  | 27°41  | 23°26  | 19°32 | 7°52  | 7°25 | 29°41  | 19°56  | 26°31 | 15°47  | 16°28 | 15°21 | n.a. |   |   |   |   |   |   |   |   |
| M 5  | 20 27 10 | 5° 5'27  | 021    | 29° 3  | 24°35  | 20° 7 | 7°44  | 7°26 | 29°39  | 19°58  | 26°33 | 15°33  | 16°24 | 15°28 | n.a. |   |   |   |   |   |   |   |   |
| T 6  | 20 31 7  | 6° 3'47  | 12°18  | 0M24   | 25°44  | 20°42 | 7°36  | 7°28 | 29°37  | 20° 0  | 26°35 | 15°21  | 16°21 | 15°35 | n.a. |   |   |   |   |   |   |   |   |
| W 7  | 20 35 3  | 7° 2'08  | 24°21  | 1°43   | 26°53  | 21°16 | 7°28  | 7°30 | 29°34  | 20° 1  | 26°37 | 15°10  | 16°18 | 15°42 | n.a. |   |   |   |   |   |   |   |   |
| T 8  | 20 39 0  | 8° 0'32  | 6M29   | 3° 0   | 28° 3  | 21°51 | 7°20  | 7°31 | 29°32  | 20° 3  | 26°39 | 15° 1  | 16°15 | 15°48 | n.a. |   |   |   |   |   |   |   |   |
| F 9  | 20 42 56 | 8°58'57  | 18°46  | 4°16   | 29°12  | 22°25 | 7°12  | 7°33 | 29°29  | 20° 5  | 26°41 | 14°56  | 16°12 | 15°55 | n.a. |   |   |   |   |   |   |   |   |
| S 10 | 20 46 53 | 9°57'24  | 1212   | 5°30   | 0222   | 23° 0 | 7° 4  | 7°35 | 29°27  | 20° 7  | 26°43 | 14°53  | 16° 9 | 16° 2 | n.a. |   |   |   |   |   |   |   |   |
| S 11 | 20 50 50 | 10°55'53 | 13°52  | 6°43   | 1°31   | 23°34 | 6°56  | 7°38 | 29°25  | 20° 9  | 26°44 | 14°D52 | 16° 5 | 16° 8 | n.a. |   |   |   |   |   |   |   |   |
| M12  | 20 54 46 | 11°54'24 | 26°48  | 7°53   | 2°41   | 24° 7 | 6°48  | 7°40 | 29°22  | 20°10  | 26°46 | 14°52  | 16° 2 | 16°15 | n.a. |   |   |   |   |   |   |   |   |
| T 13 | 20 58 43 | 12°52'56 | 10M 3  | 9° 2   | 3°51   | 24°41 | 6°40  | 7°42 | 29°20  | 20°12  | 26°48 | 14°R53 | 15°59 | 16°22 | n.a. |   |   |   |   |   |   |   |   |
| W14  | 21 2 39  | 13°51'30 | 23°41  | 10° 9  | 5° 1   | 25°15 | 6°33  | 7°45 | 29°18  | 20°14  | 26°50 | 14°52  | 15°56 | 16°29 | n.a. |   |   |   |   |   |   |   |   |
| T 15 | 21 6 36  | 14°50'06 | 7244   | 11°13  | 6°11   | 25°48 | 6°25  | 7°47 | 29°16  | 20°16  | 26°52 | 14°50  | 15°53 | 16°35 | n.a. |   |   |   |   |   |   |   |   |
| F 16 | 21 10 32 | 15°48'44 | 22°10  | 12°15  | 7°22   | 26°21 | 6°17  | 7°50 | 29°13  | 20°18  | 26°54 | 14°46  | 15°49 | 16°42 | n.a. |   |   |   |   |   |   |   |   |
| S 17 | 21 14 29 | 16°47'24 | 6258   | 13°15  | 8°32   | 26°54 | 6° 9  | 7°52 | 29°11  | 20°20  | 26°56 | 14°39  | 15°46 | 16°49 | n.a. |   |   |   |   |   |   |   |   |
| S 18 | 21 18 25 | 17°46'05 | 22° 0  | 14°12  | 9°42   | 27°27 | 6° 2  | 7°55 | 29° 9  | 20°22  | 26°58 | 14°31  | 15°43 | 16°56 | n.a. |   |   |   |   |   |   |   |   |
| M19  | 21 22 22 | 18°44'48 | 728    | 15° 6  | 10°53  | 27°59 | 5°54  | 7°58 | 29° 7  | 20°24  | 27° 0 | 14°23  | 15°40 | 17° 2 | n.a. |   |   |   |   |   |   |   |   |
| T 20 | 21 26 19 | 19°43'34 | 22°13  | 15°58  | 12° 4  | 28°31 | 5°47  | 8° 1 | 29° 4  | 20°26  | 27° 2 | 14°15  | 15°37 | 17° 9 | n.a. |   |   |   |   |   |   |   |   |
| W21  | 21 30 15 | 20°42'21 | 723    | 16°46  | 13°15  | 29° 4 | 5°39  | 8° 4 | 29° 2  | 20°28  | 27° 3 | 14° 8  | 15°34 | 17°16 | n.a. |   |   |   |   |   |   |   |   |
| T 22 | 21 34 12 | 21°41'11 | 21°32  | 17°30  | 14°26  | 29°35 | 5°32  | 8° 7 | 29° 0  | 20°30  | 27° 5 | 14° 4  | 15°30 | 17°22 | n.a. |   |   |   |   |   |   |   |   |
| F 23 | 21 38 8  | 22°40'02 | 5Y34   | 18°11  | 15°37  | 0II 7 | 5°25  | 8°10 | 28°58  | 20°32  | 27° 7 | 14° 2  | 15°27 | 17°29 | n.a. |   |   |   |   |   |   |   |   |
| S 24 | 21 42 5  | 23°38'57 | 19° 8  | 18°47  | 16°48  | 0°39  | 5°17  | 8°14 | 28°56  | 20°34  | 27° 9 | 14°D 1 | 15°24 | 17°36 | n.a. |   |   |   |   |   |   |   |   |
| S 25 | 21 46 1  | 24°37'53 | 2215   | 19°19  | 17°59  | 1°10  | 5°10  | 8°17 | 28°54  | 20°36  | 27°11 | 14° 2  | 15°21 | 17°43 | n.a. |   |   |   |   |   |   |   |   |
| M26  | 21 49 58 | 25°36'52 | 14°58  | 19°46  | 19°11  | 1°41  | 5° 3  | 8°20 | 28°52  | 20°38  | 27°13 | 14° 4  | 15°18 | 17°49 | n.a. |   |   |   |   |   |   |   |   |
| T 27 | 21 53 54 | 26°35'54 | 27°21  | 20° 8  | 20°22  | 2°12  | 4°56  | 8°24 | 28°50  | 20°40  | 27°14 | 14°R 4 | 15°14 | 17°56 | n.a. |   |   |   |   |   |   |   |   |
| W28  | 21 57 51 | 27°34'58 | 9II30  | 20°24  | 21°34  | 2°42  | 4°50  | 8°28 | 28°48  | 20°42  | 27°16 | 14° 3  | 15°11 | 18° 3 | n.a. |   |   |   |   |   |   |   |   |
| T 29 | 22 1 48  | 28°34'04 | 21°28  | 20°34  | 22°46  | 3°13  | 4°43  | 8°31 | 28°46  | 20°44  | 27°18 | 14° 0  | 15° 8 | 18° 9 | n.a. |   |   |   |   |   |   |   |   |
| F 30 | 22 5 44  | 29°33'13 | 3221   | 20°R38 | 23°58  | 3°43  | 4°36  | 8°35 | 28°44  | 20°46  | 27°20 | 13°56  | 15° 5 | 18°16 | n.a. |   |   |   |   |   |   |   |   |
| S 31 | 22 9 41  | 0M32'24  | 15212  | 20M35  | 25210  | 4II13 | 4230  | 8M39 | 28242  | 20M48  | 27221 | 13249  | 1521  | 18223 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 04h43m41s

Julian Calendar

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SWISS EPHEMERIS for the year 518 BCE

SEPTEMBER 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♅     | ♁      | ♁     | ♁     | ♁      | ♁     | ♁     | ♁    |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|------|
| S 1  | 22 13 37 | 1♐31'37  | 27♄6  | 20°R24 | 26♄22 | 4♐42  | 4°R24 | 8♐43  | 28°R40 | 20♐51 | 27♄23 | 13°R42 | 14♄59 | 18♄30 | n.a. |
| M 2  | 22 17 34 | 2°30'53  | 9♏3   | 20♐6   | 27°34 | 5°12  | 4♐18  | 8°47  | 28°38  | 20°53 | 27°25 | 13♄34  | 14°55 | 18°36 | n.a. |
| T 3  | 22 21 30 | 3°30'11  | 21°8  | 19°40  | 28°46 | 5°41  | 4°12  | 8°51  | 28°36  | 20°55 | 27°26 | 13°26  | 14°52 | 18°43 | n.a. |
| W 4  | 22 25 27 | 4°29'31  | 3♐20  | 19°6   | 29°58 | 6°9   | 4°6   | 8°55  | 28°34  | 20°57 | 27°28 | 13°20  | 14°49 | 18°50 | n.a. |
| T 5  | 22 29 23 | 5°28'53  | 15°42 | 18°24  | 1♏11  | 6°38  | 4°0   | 8°59  | 28°33  | 20°59 | 27°30 | 13°15  | 14°46 | 18°57 | n.a. |
| F 6  | 22 33 20 | 6°28'17  | 28°14 | 17°35  | 2°23  | 7°6   | 3°54  | 9°4   | 28°31  | 21°1  | 27°31 | 13°12  | 14°43 | 19°3  | n.a. |
| S 7  | 22 37 17 | 7°27'44  | 10♄56 | 16°38  | 3°36  | 7°34  | 3°49  | 9°8   | 28°29  | 21°4  | 27°33 | 13°D11 | 14°40 | 19°10 | n.a. |
| S 8  | 22 41 13 | 8°27'12  | 23°51 | 15°36  | 4°49  | 8°2   | 3°44  | 9°13  | 28°27  | 21°6  | 27°35 | 13°11  | 14°36 | 19°17 | n.a. |
| M 9  | 22 45 10 | 9°26'43  | 6♐59  | 14°28  | 6°1   | 8°29  | 3°39  | 9°17  | 28°26  | 21°8  | 27°36 | 13°12  | 14°33 | 19°23 | n.a. |
| T 10 | 22 49 6  | 10°26'15 | 20°22 | 13°18  | 7°14  | 8°56  | 3°34  | 9°22  | 28°24  | 21°10 | 27°38 | 13°14  | 14°30 | 19°30 | n.a. |
| W11  | 22 53 3  | 11°25'49 | 4♁1   | 12°5   | 8°27  | 9°23  | 3°29  | 9°26  | 28°23  | 21°12 | 27°39 | 13°15  | 14°27 | 19°37 | n.a. |
| T 12 | 22 56 59 | 12°25'25 | 17°57 | 10°53  | 9°40  | 9°49  | 3°24  | 9°31  | 28°21  | 21°15 | 27°41 | 13°R15 | 14°24 | 19°44 | n.a. |
| F 13 | 23 0 56  | 13°25'03 | 2♄10  | 9°43   | 10°53 | 10°16 | 3°20  | 9°36  | 28°20  | 21°17 | 27°42 | 13°14  | 14°20 | 19°50 | n.a. |
| S 14 | 23 4 52  | 14°24'43 | 16°37 | 8°38   | 12°6  | 10°41 | 3°16  | 9°41  | 28°18  | 21°19 | 27°44 | 13°11  | 14°17 | 19°57 | n.a. |
| S 15 | 23 8 49  | 15°24'25 | 1♁16  | 7°39   | 13°20 | 11°7  | 3°12  | 9°46  | 28°17  | 21°21 | 27°45 | 13°8   | 14°14 | 20°4  | n.a. |
| M16  | 23 12 46 | 16°24'08 | 15°59 | 6°48   | 14°33 | 11°32 | 3°8   | 9°51  | 28°15  | 21°24 | 27°47 | 13°4   | 14°11 | 20°11 | n.a. |
| T 17 | 23 16 42 | 17°23'53 | 0♁41  | 6°7    | 15°46 | 11°57 | 3°4   | 9°56  | 28°14  | 21°26 | 27°48 | 13°0   | 14°8  | 20°17 | n.a. |
| W18  | 23 20 39 | 18°23'41 | 15°14 | 5°36   | 17°0  | 12°21 | 3°1   | 10°1  | 28°13  | 21°28 | 27°50 | 12°57  | 14°5  | 20°24 | n.a. |
| T 19 | 23 24 35 | 19°23'30 | 29°31 | 5°16   | 18°13 | 12°45 | 2°57  | 10°6  | 28°12  | 21°30 | 27°51 | 12°56  | 14°1  | 20°31 | n.a. |
| F 20 | 23 28 32 | 20°23'21 | 13♁7  | 5°D 8  | 19°27 | 13°9  | 2°54  | 10°11 | 28°10  | 21°33 | 27°52 | 12°D55 | 13°58 | 20°37 | n.a. |
| S 21 | 23 32 28 | 21°23'15 | 27°1  | 5°10   | 20°40 | 13°32 | 2°51  | 10°17 | 28°9   | 21°35 | 27°54 | 12°56  | 13°55 | 20°44 | n.a. |
| S 22 | 23 36 25 | 22°23'11 | 10♄10 | 5°24   | 21°54 | 13°55 | 2°49  | 10°22 | 28°8   | 21°37 | 27°55 | 12°57  | 13°52 | 20°51 | n.a. |
| M23  | 23 40 21 | 23°23'09 | 22°57 | 5°48   | 23°8  | 14°18 | 2°46  | 10°28 | 28°7   | 21°39 | 27°56 | 12°58  | 13°49 | 20°58 | n.a. |
| T 24 | 23 44 18 | 24°23'09 | 5♐24  | 6°22   | 24°22 | 14°40 | 2°44  | 10°33 | 28°6   | 21°41 | 27°57 | 13°0   | 13°45 | 21°4  | n.a. |
| W25  | 23 48 14 | 25°23'12 | 17°36 | 7°4    | 25°36 | 15°2  | 2°42  | 10°39 | 28°5   | 21°44 | 27°59 | 13°1   | 13°42 | 21°11 | n.a. |
| T 26 | 23 52 11 | 26°23'17 | 29°37 | 7°55   | 26°50 | 15°23 | 2°40  | 10°44 | 28°4   | 21°46 | 28°0  | 13°R 1 | 13°39 | 21°18 | n.a. |
| F 27 | 23 56 8  | 27°23'24 | 11♄31 | 8°53   | 28°4  | 15°44 | 2°38  | 10°50 | 28°3   | 21°48 | 28°1  | 13°0   | 13°36 | 21°24 | n.a. |
| S 28 | 0 0 4    | 28°23'34 | 23°23 | 9°57   | 29°18 | 16°5  | 2°37  | 10°56 | 28°2   | 21°50 | 28°2  | 12°59  | 13°33 | 21°31 | n.a. |
| S 29 | 0 4 1    | 29°23'45 | 5♏17  | 11°6   | 0♐32  | 16°25 | 2°35  | 11°1  | 28°2   | 21°53 | 28°3  | 12°57  | 13°30 | 21°38 | n.a. |
| M30  | 0 7 57   | 0♄23'59  | 17♏18 | 12♐20  | 1♐46  | 16♐44 | 2♁34  | 11♐7  | 28°1   | 21°55 | 28°4  | 12°55  | 13°26 | 21°45 | n.a. |

Delta T = 04h43m39s Julian Calendar 1 Sept. 518 BCE == Greg. Calendar 26 Aug. 518 BCE  
 The year -517 astronomical counting style corresponds to year 518 B.C.E historical counting style.

OCTOBER 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂      | ♃     | ♅     | ♁      | ♁     | ♁     | ♁      | ♁     | ♁     | ♁    |
|------|---------|----------|-------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|------|
| T 1  | 0 11 54 | 1♄24'15  | 29♏29 | 13♐39 | 3♐0   | 17♐4   | 2°R33 | 11♐13 | 28°R 0 | 21♐57 | 28♄6  | 12°R53 | 13♄23 | 21♄51 | n.a. |
| W 2  | 0 15 50 | 2°24'32  | 11♐52 | 15°1  | 4°15  | 17°22  | 2♁32  | 11°19 | 28°0   | 21°59 | 28°7  | 12♄52  | 13°20 | 21°58 | n.a. |
| T 3  | 0 19 47 | 3°24'52  | 24°28 | 16°25 | 5°29  | 17°40  | 2°32  | 11°25 | 27°59  | 22°2  | 28°8  | 12°51  | 13°17 | 22°5  | n.a. |
| F 4  | 0 23 43 | 4°25'14  | 7♄18  | 17°53 | 6°43  | 17°58  | 2°32  | 11°31 | 27°58  | 22°4  | 28°9  | 12°D50 | 13°14 | 22°12 | n.a. |
| S 5  | 0 27 40 | 5°25'37  | 20°23 | 19°22 | 7°58  | 18°15  | 2°D31 | 11°37 | 27°58  | 22°6  | 28°10 | 12°50  | 13°11 | 22°18 | n.a. |
| S 6  | 0 31 37 | 6°26'02  | 3♐41  | 20°53 | 9°12  | 18°32  | 2°32  | 11°43 | 27°57  | 22°8  | 28°11 | 12°51  | 13°7  | 22°25 | n.a. |
| M 7  | 0 35 33 | 7°26'29  | 17°12 | 22°25 | 10°27 | 18°48  | 2°32  | 11°49 | 27°57  | 22°10 | 28°12 | 12°51  | 13°4  | 22°32 | n.a. |
| T 8  | 0 39 30 | 8°26'58  | 0♁55  | 23°58 | 11°41 | 19°4   | 2°32  | 11°56 | 27°57  | 22°13 | 28°12 | 12°52  | 13°1  | 22°38 | n.a. |
| W 9  | 0 43 26 | 9°27'28  | 14°48 | 25°32 | 12°56 | 19°19  | 2°33  | 12°2  | 27°56  | 22°15 | 28°13 | 12°52  | 12°58 | 22°45 | n.a. |
| T 10 | 0 47 23 | 10°27'59 | 28°50 | 27°7  | 14°11 | 19°33  | 2°34  | 12°8  | 27°56  | 22°17 | 28°14 | 12°52  | 12°55 | 22°52 | n.a. |
| F 11 | 0 51 19 | 11°28'32 | 12♄59 | 28°42 | 15°25 | 19°47  | 2°35  | 12°14 | 27°56  | 22°19 | 28°15 | 12°R52 | 12°51 | 22°59 | n.a. |
| S 12 | 0 55 16 | 12°29'06 | 27°12 | 0♄18  | 16°40 | 20°0   | 2°37  | 12°21 | 27°56  | 22°21 | 28°16 | 12°D52 | 12°48 | 23°5  | n.a. |
| S 13 | 0 59 12 | 13°29'42 | 11♁28 | 1°54  | 17°55 | 20°13  | 2°38  | 12°27 | 27°56  | 22°23 | 28°16 | 12°52  | 12°45 | 23°12 | n.a. |
| M14  | 1 3 9   | 14°30'19 | 25°44 | 3°30  | 19°10 | 20°25  | 2°40  | 12°34 | 27°D56 | 22°25 | 28°17 | 12°53  | 12°42 | 23°19 | n.a. |
| T 15 | 1 7 6   | 15°30'57 | 9♁56  | 5°6   | 20°25 | 20°37  | 2°42  | 12°40 | 27°56  | 22°28 | 28°18 | 12°53  | 12°39 | 23°25 | n.a. |
| W16  | 1 11 2  | 16°31'36 | 24°0  | 6°42  | 21°39 | 20°47  | 2°44  | 12°47 | 27°56  | 22°30 | 28°19 | 12°53  | 12°36 | 23°32 | n.a. |
| T 17 | 1 14 59 | 17°32'17 | 7♁53  | 8°18  | 22°54 | 20°58  | 2°46  | 12°53 | 27°56  | 22°32 | 28°19 | 12°R53 | 12°32 | 23°39 | n.a. |
| F 18 | 1 18 55 | 18°33'00 | 21°32 | 9°54  | 24°9  | 21°7   | 2°49  | 13°0  | 27°56  | 22°34 | 28°20 | 12°53  | 12°29 | 23°46 | n.a. |
| S 19 | 1 22 52 | 19°33'44 | 4♄54  | 11°30 | 25°24 | 21°16  | 2°52  | 13°6  | 27°56  | 22°36 | 28°20 | 12°53  | 12°26 | 23°52 | n.a. |
| S 20 | 1 26 48 | 20°34'29 | 17°57 | 13°6  | 26°39 | 21°24  | 2°55  | 13°13 | 27°57  | 22°38 | 28°21 | 12°52  | 12°23 | 23°59 | n.a. |
| M21  | 1 30 45 | 21°35'16 | 0♐42  | 14°41 | 27°54 | 21°32  | 2°58  | 13°20 | 27°57  | 22°40 | 28°21 | 12°51  | 12°20 | 24°6  | n.a. |
| T 22 | 1 34 41 | 22°36'05 | 13°10 | 16°17 | 29°9  | 21°39  | 3°1   | 13°26 | 27°57  | 22°42 | 28°22 | 12°50  | 12°17 | 24°12 | n.a. |
| W23  | 1 38 38 | 23°36'55 | 25°24 | 17°52 | 0♄24  | 21°45  | 3°5   | 13°33 | 27°58  | 22°44 | 28°22 | 12°48  | 12°13 | 24°19 | n.a. |
| T 24 | 1 42 34 | 24°37'47 | 7♄26  | 19°28 | 1°39  | 21°51  | 3°8   | 13°40 | 27°58  | 22°46 | 28°23 | 12°47  | 12°10 | 24°26 | n.a. |
| F 25 | 1 46 31 | 25°38'40 | 19°21 | 21°3  | 2°55  | 21°55  | 3°12  | 13°47 | 27°59  | 22°48 | 28°23 | 12°46  | 12°7  | 24°33 | n.a. |
| S 26 | 1 50 28 | 26°39'35 | 1♏13  | 22°38 | 4°10  | 21°59  | 3°16  | 13°53 | 27°59  | 22°50 | 28°24 | 12°D46 | 12°4  | 24°39 | n.a. |
| S 27 | 1 54 24 | 27°40'32 | 13°7  | 24°13 | 5°25  | 22°2   | 3°21  | 14°0  | 28°0   | 22°52 | 28°24 | 12°47  | 12°1  | 24°46 | n.a. |
| M28  | 1 58 21 | 28°41'29 | 25°8  | 25°48 | 6°40  | 22°5   | 3°25  | 14°7  | 28°1   | 22°54 | 28°24 | 12°48  | 11°57 | 24°53 | n.a. |
| T 29 | 2 2 17  | 29°42'29 | 7♐21  | 27°22 | 7°55  | 22°6   | 3°30  | 14°14 | 28°1   | 22°56 | 28°25 | 12°50  | 11°54 | 25°0  | n.a. |
| W30  | 2 6 14  | 0♐43'29  | 19°48 | 28°57 | 9°11  | 22°7   | 3°35  | 14°21 | 28°2   | 22°57 | 28°25 | 12°51  | 11°51 | 25°6  | n.a. |
| T 31 | 2 10 10 | 1♐44'31  | 2♄34  | 0♐31  | 10♄26 | 22°R 7 | 3♁40  | 14♐28 | 28°3   | 22°59 | 28°25 | 12°52  | 11°48 | 25°13 | n.a. |

Delta T = 04h43m37s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 518 BCE

NOVEMBER 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♃       | ♄    | ♅     | ♆     | ♇     | ♈      | ♉      | ♊     | ♋     | ♌    | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|-------|---------|------|-------|-------|-------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|
| F 1  | 2 14 7  | 2♈45'34  | 15♌40 | 2♈6   | 11♌41 | 22°R 7  | 3♌45 | 14♈35 | 28♌4  | 23♈1  | 28♌25  | 12°R52 | 11♌45 | 25♌20 | n.a. |   |   |   |   |   |   |   |
| S 2  | 2 18 3  | 3°46'38  | 29° 6 | 3°40  | 12°57 | 22°II 5 | 3°50 | 14°41 | 28° 5 | 23° 3 | 28°25  | 12°♌52 | 11°42 | 25°26 | n.a. |   |   |   |   |   |   |   |
| S 3  | 2 22 0  | 4°47'43  | 12♈51 | 5°14  | 14°12 | 22° 3   | 3°56 | 14°48 | 28° 6 | 23° 5 | 28°25  | 12°50  | 11°38 | 25°33 | n.a. |   |   |   |   |   |   |   |
| M 4  | 2 25 57 | 5°48'50  | 26°51 | 6°49  | 15°27 | 21°59   | 4° 1 | 14°55 | 28° 7 | 23° 7 | 28°26  | 12°47  | 11°35 | 25°40 | n.a. |   |   |   |   |   |   |   |
| T 5  | 2 29 53 | 6°49'57  | 11♌7  | 8°23  | 16°43 | 21°55   | 4° 7 | 15° 2 | 28° 8 | 23° 8 | 28°26  | 12°43  | 11°32 | 25°47 | n.a. |   |   |   |   |   |   |   |
| W 6  | 2 33 50 | 7°51'05  | 25°22 | 9°58  | 17°58 | 21°50   | 4°13 | 15° 9 | 28° 9 | 23°10 | 28°R26 | 12°40  | 11°29 | 25°53 | n.a. |   |   |   |   |   |   |   |
| T 7  | 2 37 46 | 8°52'13  | 9♌43  | 11°32 | 19°13 | 21°45   | 4°20 | 15°16 | 28°10 | 23°12 | 28°26  | 12°36  | 11°26 | 26° 0 | n.a. |   |   |   |   |   |   |   |
| F 8  | 2 41 43 | 9°53'22  | 24° 1 | 13° 6 | 20°29 | 21°38   | 4°26 | 15°23 | 28°11 | 23°13 | 28°26  | 12°34  | 11°22 | 26° 7 | n.a. |   |   |   |   |   |   |   |
| S 9  | 2 45 39 | 10°54'31 | 8♌14  | 14°41 | 21°44 | 21°31   | 4°33 | 15°30 | 28°13 | 23°15 | 28°25  | 12°D33 | 11°19 | 26°13 | n.a. |   |   |   |   |   |   |   |
| S 10 | 2 49 36 | 11°55'41 | 22°20 | 16°15 | 22°59 | 21°22   | 4°40 | 15°37 | 28°14 | 23°17 | 28°25  | 12°34  | 11°16 | 26°20 | n.a. |   |   |   |   |   |   |   |
| M11  | 2 53 32 | 12°56'51 | 6♈16  | 17°50 | 24°15 | 21°13   | 4°46 | 15°44 | 28°15 | 23°18 | 28°25  | 12°35  | 11°13 | 26°27 | n.a. |   |   |   |   |   |   |   |
| T 12 | 2 57 29 | 13°58'02 | 20° 2 | 19°25 | 25°30 | 21° 3   | 4°54 | 15°51 | 28°17 | 23°20 | 28°25  | 12°37  | 11°10 | 26°34 | n.a. |   |   |   |   |   |   |   |
| W13  | 3 1 26  | 14°59'12 | 3♈38  | 21° 0 | 26°46 | 20°52   | 5° 1 | 15°58 | 28°18 | 23°21 | 28°25  | 12°38  | 11° 7 | 26°40 | n.a. |   |   |   |   |   |   |   |
| T 14 | 3 5 22  | 16° 0'24 | 17° 3 | 22°34 | 28° 1 | 20°41   | 5° 8 | 16° 5 | 28°20 | 23°23 | 28°25  | 12°R38 | 11° 3 | 26°47 | n.a. |   |   |   |   |   |   |   |
| F 15 | 3 9 19  | 17° 1'35 | 0♈17  | 24° 9 | 29°16 | 20°28   | 5°16 | 16°12 | 28°21 | 23°25 | 28°24  | 12°37  | 11° 0 | 26°54 | n.a. |   |   |   |   |   |   |   |
| S 16 | 3 13 15 | 18° 2'47 | 13°18 | 25°45 | 0♈32  | 20°15   | 5°24 | 16°19 | 28°23 | 23°26 | 28°24  | 12°33  | 10°57 | 27° 0 | n.a. |   |   |   |   |   |   |   |
| S 17 | 3 17 12 | 19° 4'00 | 26° 7 | 27°20 | 1°47  | 20° 1   | 5°31 | 16°26 | 28°25 | 23°27 | 28°24  | 12°28  | 10°54 | 27° 7 | n.a. |   |   |   |   |   |   |   |
| M18  | 3 21 8  | 20° 5'13 | 8♈43  | 28°55 | 3° 3  | 19°47   | 5°39 | 16°33 | 28°26 | 23°29 | 28°23  | 12°22  | 10°51 | 27°14 | n.a. |   |   |   |   |   |   |   |
| T 19 | 3 25 5  | 21° 6'27 | 21° 5 | 0♈31  | 4°18  | 19°31   | 5°48 | 16°40 | 28°28 | 23°30 | 28°23  | 12°14  | 10°48 | 27°21 | n.a. |   |   |   |   |   |   |   |
| W20  | 3 29 1  | 22° 7'41 | 3♈16  | 2° 6  | 5°34  | 19°15   | 5°56 | 16°47 | 28°30 | 23°32 | 28°23  | 12° 7  | 10°44 | 27°27 | n.a. |   |   |   |   |   |   |   |
| T 21 | 3 32 58 | 23° 8'55 | 15°17 | 3°42  | 6°49  | 18°58   | 6° 4 | 16°54 | 28°32 | 23°33 | 28°22  | 12° 0  | 10°41 | 27°34 | n.a. |   |   |   |   |   |   |   |
| F 22 | 3 36 55 | 24°10'10 | 27°12 | 5°17  | 8° 4  | 18°40   | 6°13 | 17° 1 | 28°34 | 23°34 | 28°22  | 11°55  | 10°38 | 27°41 | n.a. |   |   |   |   |   |   |   |
| S 23 | 3 40 51 | 25°11'26 | 9♈3   | 6°53  | 9°20  | 18°22   | 6°22 | 17° 8 | 28°35 | 23°36 | 28°21  | 11°51  | 10°35 | 27°48 | n.a. |   |   |   |   |   |   |   |
| S 24 | 3 44 48 | 26°12'42 | 20°55 | 8°28  | 10°35 | 18° 3   | 6°31 | 17°15 | 28°37 | 23°37 | 28°21  | 11°49  | 10°32 | 27°54 | n.a. |   |   |   |   |   |   |   |
| M25  | 3 48 44 | 27°13'58 | 2♈53  | 10° 3 | 11°51 | 17°43   | 6°40 | 17°22 | 28°39 | 23°38 | 28°20  | 11°D49 | 10°28 | 28° 1 | n.a. |   |   |   |   |   |   |   |
| T 26 | 3 52 41 | 28°15'15 | 15° 3 | 11°38 | 13° 6 | 17°23   | 6°49 | 17°29 | 28°41 | 23°39 | 28°20  | 11°51  | 10°25 | 28° 8 | n.a. |   |   |   |   |   |   |   |
| W27  | 3 56 37 | 29°16'32 | 27°29 | 13°13 | 14°22 | 17° 2   | 6°58 | 17°36 | 28°44 | 23°41 | 28°19  | 11°52  | 10°22 | 28°14 | n.a. |   |   |   |   |   |   |   |
| T 28 | 4 0 34  | 0♈17'49  | 10♌16 | 14°47 | 15°37 | 16°41   | 7° 7 | 17°43 | 28°46 | 23°42 | 28°18  | 11°R53 | 10°19 | 28°21 | n.a. |   |   |   |   |   |   |   |
| F 29 | 4 4 30  | 1°19'06  | 23°28 | 16°21 | 16°53 | 16°19   | 7°17 | 17°50 | 28°48 | 23°43 | 28°18  | 11°52  | 10°16 | 28°28 | n.a. |   |   |   |   |   |   |   |
| S 30 | 4 8 27  | 2♈20'24  | 7♈5   | 17♌54 | 18♈8  | 15°II57 | 7♌27 | 17♈57 | 28♌50 | 23♈44 | 28♌17  | 11♌49  | 10♌13 | 28♌35 | n.a. |   |   |   |   |   |   |   |

Delta T = 04h43m36s Julian Calendar 1 Nov. 518 BCE == Greg. Calendar 26 Oct. 518 BCE

The year -517 astronomical counting style corresponds to year 518 B.C.E historical counting style.

DECEMBER 518 BCE (-517) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♃       | ♄     | ♅     | ♆     | ♇     | ♈      | ♉      | ♊     | ♋     | ♌    | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|-------|---------|-------|-------|-------|-------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|
| S 1  | 4 12 24 | 3♈21'42  | 21♈8  | 19♌26 | 19♈23 | 15°R35  | 7♌36  | 18♈4  | 28♌52 | 23♈45 | 28°R16 | 11°R44 | 10♌9  | 28♌41 | n.a. |   |   |   |   |   |   |   |
| M 2  | 4 16 20 | 4°22'59  | 5♈33  | 20°56 | 20°39 | 15°II12 | 7°46  | 18°11 | 28°55 | 23°46 | 28♌16  | 11♌37  | 10° 6 | 28°48 | n.a. |   |   |   |   |   |   |   |
| T 3  | 4 20 17 | 5°24'17  | 20°13 | 22°25 | 21°54 | 14°48   | 7°56  | 18°17 | 28°57 | 23°47 | 28°15  | 11°28  | 10° 3 | 28°55 | n.a. |   |   |   |   |   |   |   |
| W 4  | 4 24 13 | 6°25'34  | 5♌3   | 23°53 | 23°10 | 14°25   | 8° 7  | 18°24 | 28°59 | 23°48 | 28°14  | 11°19  | 10° 0 | 29° 1 | n.a. |   |   |   |   |   |   |   |
| T 5  | 4 28 10 | 7°26'51  | 19°51 | 25°18 | 24°25 | 14° 1   | 8°17  | 18°31 | 29° 2 | 23°49 | 28°13  | 11°11  | 9°57  | 29° 8 | n.a. |   |   |   |   |   |   |   |
| F 6  | 4 32 6  | 8°28'07  | 4♌31  | 26°40 | 25°41 | 13°37   | 8°27  | 18°38 | 29° 4 | 23°50 | 28°12  | 11° 4  | 9°54  | 29°15 | n.a. |   |   |   |   |   |   |   |
| S 7  | 4 36 3  | 9°29'23  | 18°58 | 28° 0 | 26°56 | 13°13   | 8°38  | 18°44 | 29° 7 | 23°51 | 28°12  | 11° 0  | 9°50  | 29°22 | n.a. |   |   |   |   |   |   |   |
| S 8  | 4 39 59 | 10°30'38 | 3♈7   | 29°15 | 28°11 | 12°49   | 8°48  | 18°51 | 29° 9 | 23°52 | 28°11  | 10°58  | 9°47  | 29°28 | n.a. |   |   |   |   |   |   |   |
| M 9  | 4 43 56 | 11°31'52 | 16°58 | 0♌27  | 29°27 | 12°25   | 8°59  | 18°58 | 29°12 | 23°52 | 28°10  | 10°D58 | 9°44  | 29°35 | n.a. |   |   |   |   |   |   |   |
| T 10 | 4 47 53 | 12°33'05 | 0♈31  | 1°33  | 0♌42  | 12° 1   | 9°10  | 19° 5 | 29°14 | 23°53 | 28° 9  | 10°58  | 9°41  | 29°42 | n.a. |   |   |   |   |   |   |   |
| W11  | 4 51 49 | 13°34'18 | 13°49 | 2°33  | 1°58  | 11°37   | 9°21  | 19°11 | 29°17 | 23°54 | 28° 8  | 10°R59 | 9°38  | 29°48 | n.a. |   |   |   |   |   |   |   |
| T 12 | 4 55 46 | 14°35'30 | 26°52 | 3°27  | 3°13  | 11°13   | 9°32  | 19°18 | 29°20 | 23°55 | 28° 7  | 10°57  | 9°34  | 29°55 | n.a. |   |   |   |   |   |   |   |
| F 13 | 4 59 42 | 15°36'41 | 9♌43  | 4°13  | 4°28  | 10°49   | 9°43  | 19°24 | 29°22 | 23°55 | 28° 6  | 10°54  | 9°31  | 0♌2   | n.a. |   |   |   |   |   |   |   |
| S 14 | 5 3 39  | 16°37'51 | 22°24 | 4°51  | 5°44  | 10°26   | 9°55  | 19°31 | 29°25 | 23°56 | 28° 5  | 10°47  | 9°28  | 0° 9  | n.a. |   |   |   |   |   |   |   |
| S 15 | 5 7 35  | 17°39'01 | 4♈54  | 5°20  | 6°59  | 10° 3   | 10° 6 | 19°37 | 29°28 | 23°56 | 28° 4  | 10°38  | 9°25  | 0°15  | n.a. |   |   |   |   |   |   |   |
| M16  | 5 11 32 | 18°40'10 | 17°16 | 5°38  | 8°14  | 9°40    | 10°17 | 19°44 | 29°31 | 23°57 | 28° 3  | 10°26  | 9°22  | 0°22  | n.a. |   |   |   |   |   |   |   |
| T 17 | 5 15 28 | 19°41'18 | 29°29 | 5°R46 | 9°30  | 9°17    | 10°29 | 19°50 | 29°33 | 23°58 | 28° 2  | 10°13  | 9°19  | 0°29  | n.a. |   |   |   |   |   |   |   |
| W18  | 5 19 25 | 20°42'25 | 11♌33 | 5°43  | 10°45 | 8°55    | 10°41 | 19°57 | 29°36 | 23°58 | 28° 0  | 9°59   | 9°15  | 0°35  | n.a. |   |   |   |   |   |   |   |
| T 19 | 5 23 22 | 21°43'32 | 23°31 | 5°27  | 12° 0 | 8°33    | 10°52 | 20° 3 | 29°39 | 23°59 | 27°59  | 9°46   | 9°12  | 0°42  | n.a. |   |   |   |   |   |   |   |
| F 20 | 5 27 18 | 22°44'38 | 5♌23  | 5° 1  | 13°16 | 8°12    | 11° 4 | 20° 9 | 29°42 | 23°59 | 27°58  | 9°35   | 9° 9  | 0°49  | n.a. |   |   |   |   |   |   |   |
| S 21 | 5 31 15 | 23°45'43 | 17°13 | 4°22  | 14°31 | 7°51    | 11°16 | 20°15 | 29°45 | 23°59 | 27°57  | 9°27   | 9° 6  | 0°56  | n.a. |   |   |   |   |   |   |   |
| S 22 | 5 35 11 | 24°46'48 | 29° 4 | 3°34  | 15°46 | 7°31    | 11°28 | 20°22 | 29°48 | 24° 0 | 27°56  | 9°21   | 9° 3  | 1° 2  | n.a. |   |   |   |   |   |   |   |
| M23  | 5 39 8  | 25°47'52 | 11♈0  | 2°36  | 17° 2 | 7°11    | 11°40 | 20°28 | 29°51 | 24° 0 | 27°54  | 9°18   | 9° 0  | 1° 9  | n.a. |   |   |   |   |   |   |   |
| T 24 | 5 43 4  | 26°48'55 | 23° 6 | 1°31  | 18°17 | 6°52    | 11°52 | 20°34 | 29°54 | 24° 0 | 27°53  | 9°D17  | 8°56  | 1°16  | n.a. |   |   |   |   |   |   |   |
| W25  | 5 47 1  | 27°49'57 | 5♌27  | 0°21  | 19°32 | 6°33    | 12° 5 | 20°40 | 29°57 | 24° 1 | 27°52  | 9°R17  | 8°53  | 1°22  | n.a. |   |   |   |   |   |   |   |
| T 26 | 5 50 57 | 28°50'59 | 18° 9 | 29♌6  | 20°47 | 6°16    | 12°17 | 20°46 | 0♌0   | 24° 1 | 27°51  | 9°17   | 8°50  | 1°29  | n.a. |   |   |   |   |   |   |   |
| F 27 | 5 54 54 | 29°51'59 | 1♈16  | 27°51 | 22° 3 | 5°58    | 12°29 | 20°52 | 0° 3  | 24° 1 | 27°49  | 9°16   | 8°47  | 1°36  | n.a. |   |   |   |   |   |   |   |
| S 28 | 5 58 51 | 0♌52'59  | 14°52 | 26°37 | 23°18 | 5°42    | 12°42 | 20°58 | 0° 6  | 24° 1 | 27°48  | 9°12   | 8°44  | 1°43  | n.a. |   |   |   |   |   |   |   |
| S 29 | 6 2 47  | 1°53'58  | 28°58 | 25°25 | 24°33 | 5°26    | 12°54 | 21° 4 | 0° 9  | 24° 1 | 27°47  | 9° 5   | 8°40  | 1°49  | n.a. |   |   |   |   |   |   |   |
| M30  | 6 6 44  | 2°54'56  | 13♌32 | 24°19 | 25°48 | 5°11    | 13° 7 | 21°10 | 0°12  | 24° 1 | 27°45  | 8°55   | 8°37  | 1°56  | n.a. |   |   |   |   |   |   |   |
| T 31 | 6 10 40 | 3♌55'53  | 28♌29 | 23♌18 | 27♌4  | 4°II57  | 13♌20 | 21♈16 | 0♌16  | 24♈1  | 27♌44  | 8♌44   | 8♌34  | 2♌3   | n.a. |   |   |   |   |   |   |   |

Delta T = 04h43m34s

Julian Calendar

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