

SWISS EPHEMERIS for the year 1514 BCE

JANUARY 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄     | ♅     | ♆     | ♇       | ♈     | ♉    | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|------|-------|------|---|---|---|---|---|---|---|---|
| W 1  | 5 45 46 | 28♂17'32 | 16♁ 1 | 16♁24 | 11♁47 | 5♂28  | 14♂26 | 23♂42 | 28♁ 7 | 22♂24 | 25♂R31  | 4♂R13 | 3♁ 0 | 18♁12 | n.a. |   |   |   |   |   |   |   |   |
| T 2  | 5 49 42 | 29♂13'12 | 29°25 | 18° 2 | 12°55 | 5°53  | 14°40 | 23°49 | 28° 9 | 22♂22 | 25♂II29 | 4♁ 7  | 2°57 | 18°19 | n.a. |   |   |   |   |   |   |   |   |
| F 3  | 5 53 39 | 0♂13'50  | 12♁22 | 19°40 | 14° 4 | 6°19  | 14°54 | 23°57 | 28°11 | 22°22 | 25°28   | 4° 3  | 2°53 | 18°25 | n.a. |   |   |   |   |   |   |   |   |
| S 4  | 5 57 36 | 1°14'26  | 24°54 | 21°20 | 15°12 | 6°46  | 15° 9 | 24° 4 | 28°13 | 22°21 | 25°27   | 4° 1  | 2°50 | 18°32 | n.a. |   |   |   |   |   |   |   |   |
| S 5  | 6 1 32  | 2°15'02  | 7♁ 7  | 23° 1 | 16°20 | 7°12  | 15°23 | 24°11 | 28°15 | 22°21 | 25°25   | 4°D 1 | 2°47 | 18°39 | n.a. |   |   |   |   |   |   |   |   |
| M 6  | 6 5 29  | 3°15'35  | 19° 6 | 24°42 | 17°28 | 7°39  | 15°37 | 24°18 | 28°17 | 22°20 | 25°24   | 4° 2  | 2°44 | 18°45 | n.a. |   |   |   |   |   |   |   |   |
| T 7  | 6 9 25  | 4°16'08  | 0♁55  | 26°24 | 18°35 | 8° 6  | 15°51 | 24°25 | 28°20 | 22°19 | 25°22   | 4°R 2 | 2°41 | 18°52 | n.a. |   |   |   |   |   |   |   |   |
| W 8  | 6 13 22 | 5°16'38  | 12°41 | 28° 8 | 19°43 | 8°33  | 16° 6 | 24°33 | 28°22 | 22°18 | 25°21   | 4° 2  | 2°37 | 18°58 | n.a. |   |   |   |   |   |   |   |   |
| T 9  | 6 17 18 | 6°17'08  | 24°28 | 29°52 | 20°50 | 9° 0  | 16°20 | 24°40 | 28°24 | 22°17 | 25°19   | 4° 0  | 2°34 | 19° 5 | n.a. |   |   |   |   |   |   |   |   |
| F 10 | 6 21 15 | 7°17'35  | 6♁21  | 1♂37  | 21°57 | 9°28  | 16°34 | 24°47 | 28°27 | 22°16 | 25°18   | 3°55  | 2°31 | 19°12 | n.a. |   |   |   |   |   |   |   |   |
| S 11 | 6 25 11 | 8°18'01  | 18°21 | 3°23  | 23° 4 | 9°56  | 16°49 | 24°54 | 28°29 | 22°15 | 25°17   | 3°47  | 2°28 | 19°18 | n.a. |   |   |   |   |   |   |   |   |
| S 12 | 6 29 8  | 9°18'25  | 0♂31  | 5°10  | 24°10 | 10°23 | 17° 3 | 25° 1 | 28°32 | 22°14 | 25°15   | 3°37  | 2°25 | 19°25 | n.a. |   |   |   |   |   |   |   |   |
| M13  | 6 33 5  | 10°18'48 | 12°54 | 6°58  | 25°17 | 10°52 | 17°17 | 25° 8 | 28°34 | 22°12 | 25°14   | 3°25  | 2°22 | 19°32 | n.a. |   |   |   |   |   |   |   |   |
| T 14 | 6 37 1  | 11°19'08 | 25°28 | 8°47  | 26°23 | 11°20 | 17°32 | 25°15 | 28°37 | 22°11 | 25°13   | 3°12  | 2°18 | 19°38 | n.a. |   |   |   |   |   |   |   |   |
| W15  | 6 40 58 | 12°19'27 | 8♁14  | 10°37 | 27°29 | 11°48 | 17°46 | 25°22 | 28°39 | 22°10 | 25°11   | 3° 0  | 2°15 | 19°45 | n.a. |   |   |   |   |   |   |   |   |
| T 16 | 6 44 54 | 13°19'43 | 21°13 | 12°27 | 28°34 | 12°17 | 18° 0 | 25°29 | 28°42 | 22° 9 | 25°10   | 2°49  | 2°12 | 19°52 | n.a. |   |   |   |   |   |   |   |   |
| F 17 | 6 48 51 | 14°19'57 | 4♁22  | 14°19 | 29°40 | 12°46 | 18°15 | 25°36 | 28°44 | 22° 8 | 25° 9   | 2°41  | 2° 9 | 19°58 | n.a. |   |   |   |   |   |   |   |   |
| S 18 | 6 52 47 | 15°20'09 | 17°43 | 16°11 | 0♁45  | 13°15 | 18°29 | 25°43 | 28°47 | 22° 7 | 25° 7   | 2°35  | 2° 6 | 20° 5 | n.a. |   |   |   |   |   |   |   |   |
| S 19 | 6 56 44 | 16°20'18 | 1♂17  | 18° 5 | 1°49  | 13°44 | 18°44 | 25°50 | 28°50 | 22° 5 | 25° 6   | 2°32  | 2° 3 | 20°12 | n.a. |   |   |   |   |   |   |   |   |
| M20  | 7 0 40  | 17°20'26 | 15° 2 | 19°59 | 2°54  | 14°13 | 18°58 | 25°57 | 28°53 | 22° 4 | 25° 5   | 2°D31 | 1°59 | 20°18 | n.a. |   |   |   |   |   |   |   |   |
| T 21 | 7 4 37  | 18°20'31 | 29° 1 | 21°54 | 3°58  | 14°43 | 19°13 | 26° 4 | 28°55 | 22° 3 | 25° 3   | 2°R32 | 1°56 | 20°25 | n.a. |   |   |   |   |   |   |   |   |
| W22  | 7 8 34  | 19°20'33 | 13♁14 | 23°49 | 5° 2  | 15°13 | 19°27 | 26°11 | 28°58 | 22° 1 | 25° 2   | 2°31  | 1°53 | 20°32 | n.a. |   |   |   |   |   |   |   |   |
| T 23 | 7 12 30 | 20°20'34 | 27°38 | 25°45 | 6° 5  | 15°42 | 19°41 | 26°18 | 29° 1 | 22° 0 | 25° 1   | 2°29  | 1°50 | 20°38 | n.a. |   |   |   |   |   |   |   |   |
| F 24 | 7 16 27 | 21°20'32 | 12♁12 | 27°41 | 7° 9  | 16°12 | 19°56 | 26°25 | 29° 4 | 21°59 | 25° 0   | 2°25  | 1°47 | 20°45 | n.a. |   |   |   |   |   |   |   |   |
| S 25 | 7 20 23 | 22°20'27 | 26°50 | 29°38 | 8°11  | 16°42 | 20°10 | 26°32 | 29° 7 | 21°57 | 24°58   | 2°18  | 1°43 | 20°52 | n.a. |   |   |   |   |   |   |   |   |
| S 26 | 7 24 20 | 23°20'21 | 11♁26 | 1♁34  | 9°14  | 17°13 | 20°25 | 26°38 | 29°10 | 21°56 | 24°57   | 2° 8  | 1°40 | 20°58 | n.a. |   |   |   |   |   |   |   |   |
| M27  | 7 28 16 | 24°20'12 | 25°53 | 3°30  | 10°16 | 17°43 | 20°39 | 26°45 | 29°12 | 21°55 | 24°56   | 1°56  | 1°37 | 21° 5 | n.a. |   |   |   |   |   |   |   |   |
| T 28 | 7 32 13 | 25°20'02 | 10♁ 3 | 5°26  | 11°18 | 18°13 | 20°53 | 26°52 | 29°15 | 21°53 | 24°55   | 1°44  | 1°34 | 21°12 | n.a. |   |   |   |   |   |   |   |   |
| W29  | 7 36 10 | 26°19'49 | 23°51 | 7°21  | 12°19 | 18°44 | 21° 8 | 26°58 | 29°18 | 21°52 | 24°54   | 1°32  | 1°31 | 21°18 | n.a. |   |   |   |   |   |   |   |   |
| T 30 | 7 40 6  | 27°19'34 | 7♁15  | 9°14  | 13°20 | 19°15 | 21°22 | 27° 5 | 29°21 | 21°50 | 24°52   | 1°23  | 1°28 | 21°25 | n.a. |   |   |   |   |   |   |   |   |
| F 31 | 7 44 3  | 28♂19'17 | 20♁14 | 11♁ 6 | 14♁21 | 19♂46 | 21♂36 | 27♂12 | 29♁24 | 21♁49 | 24♁51   | 1♁16  | 1♁24 | 21♁32 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 10h10m15s Julian Calendar 1 Jan. 1514 BCE == Greg. Calendar 18 Dec. 1515 BCE  
 The year -1513 astronomical counting style corresponds to year 1514 B.C.E historical counting style.

FEBRUARY 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄     | ♅     | ♆      | ♇       | ♈      | ♉      | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|--------|-------|------|---|---|---|---|---|---|---|---|
| S 1  | 7 47 59 | 29♂18'58 | 2♁50  | 12♁56 | 15♁21 | 20♂16 | 21♂51 | 27♂18 | 29♁27 | 21♂R47 | 24°R50  | 1♂R11  | 1♁21   | 21♁38 | n.a. |   |   |   |   |   |   |   |   |
| S 2  | 7 51 56 | 0♁18'37  | 15° 6 | 14°44 | 16°20 | 20°48 | 22° 5 | 27°25 | 29°31 | 21♁46  | 24♁II49 | 1♁ 9   | 1°18   | 21°45 | n.a. |   |   |   |   |   |   |   |   |
| M 3  | 7 55 52 | 1°18'14  | 2° 7  | 16°29 | 17°20 | 21°19 | 22°19 | 27°31 | 29°34 | 21°44  | 24°48   | 1° 9   | 1°15   | 21°51 | n.a. |   |   |   |   |   |   |   |   |
| T 4  | 7 59 49 | 2°17'49  | 8♁58  | 18°10 | 18°19 | 21°50 | 22°34 | 27°38 | 29°37 | 21°43  | 24°47   | 1° 9   | 1°12   | 21°58 | n.a. |   |   |   |   |   |   |   |   |
| W 5  | 8 3 45  | 3°17'23  | 20°46 | 19°48 | 19°17 | 22°21 | 22°48 | 27°44 | 29°40 | 21°41  | 24°46   | 1° 8   | 1° 9   | 22° 5 | n.a. |   |   |   |   |   |   |   |   |
| T 6  | 8 7 42  | 4°16'54  | 2♁35  | 21°21 | 20°15 | 22°53 | 23° 2 | 27°50 | 29°43 | 21°40  | 24°45   | 1° 6   | 1° 5   | 22°11 | n.a. |   |   |   |   |   |   |   |   |
| F 7  | 8 11 39 | 5°16'24  | 14°31 | 22°49 | 21°12 | 23°25 | 23°17 | 27°57 | 29°46 | 21°38  | 24°44   | 1° 1   | 1° 2   | 22°18 | n.a. |   |   |   |   |   |   |   |   |
| S 8  | 8 15 35 | 6°15'52  | 26°37 | 24°13 | 22° 9 | 23°56 | 23°31 | 28° 3 | 29°49 | 21°37  | 24°43   | 0°53   | 0°59   | 22°25 | n.a. |   |   |   |   |   |   |   |   |
| S 9  | 8 19 32 | 7°15'17  | 8♂57  | 25°30 | 23° 5 | 24°28 | 23°45 | 28° 9 | 29°53 | 21°35  | 24°42   | 0°42   | 0°56   | 22°31 | n.a. |   |   |   |   |   |   |   |   |
| M10  | 8 23 28 | 8°14'41  | 21°32 | 26°42 | 24° 1 | 25° 0 | 23°59 | 28°15 | 29°56 | 21°34  | 24°41   | 0°30   | 0°53   | 22°38 | n.a. |   |   |   |   |   |   |   |   |
| T 11 | 8 27 25 | 9°14'02  | 4♁24  | 27°47 | 24°56 | 25°32 | 24°13 | 28°21 | 29°59 | 21°32  | 24°40   | 0°17   | 0°49   | 22°45 | n.a. |   |   |   |   |   |   |   |   |
| W12  | 8 31 21 | 10°13'22 | 17°31 | 28°46 | 25°51 | 26° 4 | 24°28 | 28°27 | 0♁ 2  | 21°30  | 24°39   | 0° 4   | 0°46   | 22°51 | n.a. |   |   |   |   |   |   |   |   |
| T 13 | 8 35 18 | 11°12'38 | 0♁52  | 29°37 | 26°44 | 26°36 | 24°42 | 28°33 | 0° 6  | 21°29  | 24°38   | 29♂Y52 | 0°43   | 22°58 | n.a. |   |   |   |   |   |   |   |   |
| F 14 | 8 39 14 | 12°11'53 | 14°25 | 0♁22  | 27°38 | 27° 9 | 24°56 | 28°39 | 0° 9  | 21°27  | 24°37   | 29°43  | 0°40   | 23° 5 | n.a. |   |   |   |   |   |   |   |   |
| S 15 | 8 43 11 | 13°11'05 | 28° 7 | 0°59  | 28°30 | 27°41 | 25°10 | 28°45 | 0°12  | 21°25  | 24°36   | 29°37  | 0°37   | 23°11 | n.a. |   |   |   |   |   |   |   |   |
| S 16 | 8 47 8  | 14°10'15 | 11♂56 | 1°29  | 29°22 | 28°14 | 25°24 | 28°51 | 0°15  | 21°24  | 24°35   | 29°34  | 0°34   | 23°18 | n.a. |   |   |   |   |   |   |   |   |
| M17  | 8 51 4  | 15° 9'22 | 25°52 | 1°51  | 0♂14  | 28°46 | 25°38 | 28°57 | 0°19  | 21°22  | 24°34   | 29°D33 | 0°30   | 23°25 | n.a. |   |   |   |   |   |   |   |   |
| T 18 | 8 55 1  | 16° 8'27 | 9♁54  | 2° 6  | 1° 4  | 29°19 | 25°52 | 29° 2 | 0°22  | 21°21  | 24°34   | 29°R33 | 0°27   | 23°31 | n.a. |   |   |   |   |   |   |   |   |
| W19  | 8 58 57 | 17° 7'29 | 24° 0 | 2°13  | 1°54  | 29°52 | 26° 6 | 29° 8 | 0°25  | 21°19  | 24°33   | 29°33  | 0°24   | 23°38 | n.a. |   |   |   |   |   |   |   |   |
| T 20 | 9 2 54  | 18° 6'29 | 8♁10  | 2°R13 | 2°43  | 0♁24  | 26°20 | 29°14 | 0°29  | 21°17  | 24°32   | 29°31  | 0°21   | 23°45 | n.a. |   |   |   |   |   |   |   |   |
| F 21 | 9 6 50  | 19° 5'26 | 22°23 | 2° 6  | 3°31  | 0°57  | 26°34 | 29°19 | 0°32  | 21°16  | 24°31   | 29°28  | 0°18   | 23°51 | n.a. |   |   |   |   |   |   |   |   |
| S 22 | 9 10 47 | 20° 4'22 | 6♁35  | 1°53  | 4°18  | 1°30  | 26°47 | 29°25 | 0°36  | 21°14  | 24°31   | 29°21  | 0°15   | 23°58 | n.a. |   |   |   |   |   |   |   |   |
| S 23 | 9 14 43 | 21° 3'14 | 20°44 | 1°33  | 5° 4  | 2° 3  | 27° 1 | 29°30 | 0°39  | 21°12  | 24°30   | 29°13  | 0°11   | 24° 5 | n.a. |   |   |   |   |   |   |   |   |
| M24  | 9 18 40 | 22° 2'04 | 4♁44  | 1° 7  | 5°49  | 2°37  | 27°15 | 29°36 | 0°42  | 21°11  | 24°29   | 29° 2  | 0° 8   | 24°11 | n.a. |   |   |   |   |   |   |   |   |
| T 25 | 9 22 37 | 23° 0'52 | 18°32 | 0°36  | 6°34  | 3°10  | 27°29 | 29°41 | 0°46  | 21° 9  | 24°29   | 28°51  | 0° 5   | 24°18 | n.a. |   |   |   |   |   |   |   |   |
| W26  | 9 26 33 | 23°59'38 | 2♁ 3  | 0° 1  | 7°17  | 3°43  | 27°42 | 29°46 | 0°49  | 21° 7  | 24°28   | 28°41  | 0° 2   | 24°25 | n.a. |   |   |   |   |   |   |   |   |
| T 27 | 9 30 30 | 24°58'22 | 15°14 | 29♁22 | 7°59  | 4°16  | 27°56 | 29°51 | 0°52  | 21° 6  | 24°27   | 28°32  | 29♂Y59 | 24°31 | n.a. |   |   |   |   |   |   |   |   |
| F 28 | 9 34 26 | 25♁57'03 | 28♁ 6 | 28♁39 | 8♂41  | 4♁50  | 28♂ 9 | 29♂56 | 0♁56  | 21♁ 4  | 24♁II27 | 28♂Y26 | 29♂Y55 | 24♁38 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 10h10m13s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [7.2.2007]

SWISS EPHEMERIS for the year 1514 BCE

MARCH 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t    | ☉                       | ☽                    | ♀                   | ♂                   | ♃                  | ♄                   | ♅                  | ♆                  | ♇                   | ♁                   | ♂                   | ♆                   | ♁                   |      |
|------|----------|-------------------------|----------------------|---------------------|---------------------|--------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|
| S 1  | 9 38 23  | 26 <sup>55</sup> 57'42  | 10 <sup>5</sup> 38   | 27 <sup>5</sup> R55 | 9 <sup>9</sup> Y21  | 5 <sup>8</sup> U23 | 28 <sup>3</sup> U23 | 0 <sup>3</sup> U 1 | 0 <sup>0</sup> X59 | 21 <sup>1</sup> R 2 | 24 <sup>2</sup> R26 | 28 <sup>2</sup> R22 | 29 <sup>2</sup> Y52 | 24 <sup>3</sup> M45 | n.a. |
| S 2  | 9 42 19  | 27 <sup>5</sup> 54'20   | 22 <sup>2</sup> 53   | 27 <sup>5</sup> 10  | 10 <sup>0</sup> 0   | 5 <sup>5</sup> 7   | 28 <sup>3</sup> 36  | 0 <sup>0</sup> 6   | 1 <sup>0</sup> 3   | 21 <sup>1</sup> U 1 | 24 <sup>2</sup> U26 | 28 <sup>2</sup> D20 | 29 <sup>2</sup> 49  | 24 <sup>2</sup> 51  | n.a. |
| M 3  | 9 46 16  | 28 <sup>5</sup> 52'56   | 4 <sup>4</sup> M55   | 26 <sup>2</sup> 24  | 10 <sup>3</sup> 38  | 6 <sup>3</sup> 0   | 28 <sup>5</sup> 50  | 0 <sup>0</sup> 11  | 1 <sup>0</sup> 6   | 20 <sup>5</sup> 9   | 24 <sup>2</sup> 25  | 28 <sup>2</sup> Y20 | 29 <sup>2</sup> 46  | 24 <sup>2</sup> 58  | n.a. |
| T 4  | 9 50 12  | 29 <sup>5</sup> 51'30   | 16 <sup>0</sup> 48   | 25 <sup>5</sup> 39  | 11 <sup>1</sup> 14  | 7 <sup>0</sup> 4   | 29 <sup>0</sup> 3   | 0 <sup>0</sup> 16  | 1 <sup>0</sup> 10  | 20 <sup>5</sup> 8   | 24 <sup>2</sup> 25  | 28 <sup>2</sup> 21  | 29 <sup>2</sup> 43  | 25 <sup>0</sup> 5   | n.a. |
| W 5  | 9 54 9   | 0 <sup>0</sup> X50'02   | 28 <sup>3</sup> 37   | 24 <sup>5</sup> 55  | 11 <sup>1</sup> 49  | 7 <sup>3</sup> 8   | 29 <sup>0</sup> 17  | 0 <sup>0</sup> 21  | 1 <sup>0</sup> 13  | 20 <sup>5</sup> 6   | 24 <sup>2</sup> 24  | 28 <sup>2</sup> R22 | 29 <sup>2</sup> 40  | 25 <sup>0</sup> 11  | n.a. |
| T 6  | 9 58 6   | 1 <sup>0</sup> 48'32    | 10 <sup>5</sup> 28   | 24 <sup>2</sup> 13  | 12 <sup>2</sup> 23  | 8 <sup>0</sup> 11  | 29 <sup>0</sup> 30  | 0 <sup>0</sup> 26  | 1 <sup>0</sup> 16  | 20 <sup>5</sup> 4   | 24 <sup>2</sup> 24  | 28 <sup>2</sup> 21  | 29 <sup>2</sup> 36  | 25 <sup>0</sup> 18  | n.a. |
| F 7  | 10 2 2   | 2 <sup>2</sup> 47'01    | 22 <sup>2</sup> 26   | 23 <sup>3</sup> 34  | 12 <sup>2</sup> 56  | 8 <sup>4</sup> 5   | 29 <sup>0</sup> 43  | 0 <sup>0</sup> 30  | 1 <sup>0</sup> 20  | 20 <sup>5</sup> 3   | 24 <sup>2</sup> 24  | 28 <sup>2</sup> 19  | 29 <sup>2</sup> 33  | 25 <sup>0</sup> 25  | n.a. |
| S 8  | 10 5 59  | 3 <sup>3</sup> 45'28    | 4 <sup>3</sup> U35   | 22 <sup>5</sup> 58  | 13 <sup>2</sup> 27  | 9 <sup>0</sup> 19  | 29 <sup>0</sup> 56  | 0 <sup>0</sup> 35  | 1 <sup>0</sup> 23  | 20 <sup>5</sup> 1   | 24 <sup>2</sup> 23  | 28 <sup>2</sup> 15  | 29 <sup>2</sup> 30  | 25 <sup>0</sup> 31  | n.a. |
| S 9  | 10 9 55  | 4 <sup>4</sup> 43'53    | 17 <sup>0</sup> 0    | 22 <sup>2</sup> 26  | 13 <sup>3</sup> 56  | 9 <sup>5</sup> 3   | 0 <sup>0</sup> 9    | 0 <sup>0</sup> 39  | 1 <sup>0</sup> 27  | 20 <sup>5</sup> 0   | 24 <sup>2</sup> 23  | 28 <sup>0</sup> 9   | 29 <sup>2</sup> 27  | 25 <sup>0</sup> 38  | n.a. |
| M10  | 10 13 52 | 5 <sup>5</sup> 42'16    | 29 <sup>0</sup> 44   | 21 <sup>5</sup> 58  | 14 <sup>2</sup> 24  | 10 <sup>2</sup> 27 | 0 <sup>0</sup> 22   | 0 <sup>0</sup> 44  | 1 <sup>0</sup> 30  | 20 <sup>4</sup> 8   | 24 <sup>2</sup> 23  | 28 <sup>0</sup> 1   | 29 <sup>2</sup> 24  | 25 <sup>0</sup> 45  | n.a. |
| T 11 | 10 17 48 | 6 <sup>6</sup> 40'37    | 12 <sup>5</sup> 48   | 21 <sup>3</sup> 35  | 14 <sup>4</sup> 51  | 11 <sup>0</sup> 1  | 0 <sup>0</sup> 35   | 0 <sup>0</sup> 48  | 1 <sup>0</sup> 33  | 20 <sup>4</sup> 6   | 24 <sup>2</sup> 22  | 27 <sup>5</sup> 2   | 29 <sup>2</sup> 21  | 25 <sup>0</sup> 51  | n.a. |
| W12  | 10 21 45 | 7 <sup>7</sup> 38'56    | 26 <sup>0</sup> 12   | 21 <sup>1</sup> 17  | 15 <sup>1</sup> 15  | 11 <sup>3</sup> 35 | 0 <sup>0</sup> 48   | 0 <sup>0</sup> 52  | 1 <sup>0</sup> 37  | 20 <sup>4</sup> 5   | 24 <sup>2</sup> 22  | 27 <sup>4</sup> 3   | 29 <sup>2</sup> 17  | 25 <sup>0</sup> 58  | n.a. |
| T 13 | 10 25 41 | 8 <sup>8</sup> 37'14    | 9 <sup>9</sup> X54   | 21 <sup>0</sup> 3   | 15 <sup>3</sup> 38  | 12 <sup>0</sup> 9  | 1 <sup>0</sup> 1    | 0 <sup>0</sup> 56  | 1 <sup>0</sup> 40  | 20 <sup>4</sup> 3   | 24 <sup>2</sup> 22  | 27 <sup>3</sup> 5   | 29 <sup>2</sup> 14  | 26 <sup>0</sup> 5   | n.a. |
| F 14 | 10 29 38 | 9 <sup>9</sup> 35'29    | 23 <sup>5</sup> 51   | 20 <sup>5</sup> 55  | 15 <sup>5</sup> 59  | 12 <sup>4</sup> 44 | 1 <sup>0</sup> 14   | 1 <sup>0</sup> 0   | 1 <sup>0</sup> 44  | 20 <sup>4</sup> 2   | 24 <sup>2</sup> 22  | 27 <sup>2</sup> 29  | 29 <sup>2</sup> 11  | 26 <sup>0</sup> 11  | n.a. |
| S 15 | 10 33 34 | 10 <sup>10</sup> 33'43  | 7 <sup>7</sup> Y59   | 20 <sup>0</sup> D51 | 16 <sup>1</sup> 19  | 13 <sup>3</sup> 18 | 1 <sup>0</sup> 27   | 1 <sup>0</sup> 4   | 1 <sup>0</sup> 47  | 20 <sup>4</sup> 0   | 24 <sup>2</sup> 22  | 27 <sup>2</sup> 26  | 29 <sup>0</sup> 8   | 26 <sup>0</sup> 18  | n.a. |
| S 16 | 10 37 31 | 11 <sup>11</sup> 31'54  | 22 <sup>0</sup> 13   | 20 <sup>5</sup> 53  | 16 <sup>3</sup> 36  | 13 <sup>5</sup> 52 | 1 <sup>0</sup> 39   | 1 <sup>0</sup> 8   | 1 <sup>0</sup> 50  | 20 <sup>3</sup> 9   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> D24 | 29 <sup>0</sup> 5   | 26 <sup>0</sup> 25  | n.a. |
| M17  | 10 41 28 | 12 <sup>12</sup> 30'04  | 6 <sup>6</sup> U30   | 20 <sup>5</sup> 59  | 16 <sup>5</sup> 52  | 14 <sup>4</sup> 27 | 1 <sup>0</sup> 52   | 1 <sup>0</sup> 12  | 1 <sup>0</sup> 54  | 20 <sup>3</sup> 7   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> 24  | 29 <sup>0</sup> 1   | 26 <sup>0</sup> 31  | n.a. |
| T 18 | 10 45 24 | 13 <sup>13</sup> 28'11  | 20 <sup>4</sup> 47   | 21 <sup>1</sup> 11  | 17 <sup>0</sup> 5   | 15 <sup>0</sup> 1  | 2 <sup>0</sup> 4    | 1 <sup>0</sup> 16  | 1 <sup>0</sup> 57  | 20 <sup>3</sup> 6   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> 25  | 28 <sup>5</sup> 8   | 26 <sup>0</sup> 38  | n.a. |
| W19  | 10 49 21 | 14 <sup>14</sup> 26'16  | 5 <sup>5</sup> U 0   | 21 <sup>1</sup> 27  | 17 <sup>1</sup> 16  | 15 <sup>5</sup> 36 | 2 <sup>0</sup> 17   | 1 <sup>0</sup> 20  | 2 <sup>0</sup> 0   | 20 <sup>3</sup> 4   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> 27  | 28 <sup>5</sup> 5   | 26 <sup>0</sup> 44  | n.a. |
| T 20 | 10 53 17 | 15 <sup>15</sup> 24'19  | 19 <sup>0</sup> 9    | 21 <sup>1</sup> 47  | 17 <sup>2</sup> 25  | 16 <sup>0</sup> 10 | 2 <sup>0</sup> 29   | 1 <sup>0</sup> 23  | 2 <sup>0</sup> 4   | 20 <sup>3</sup> 3   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> R27 | 28 <sup>5</sup> 2   | 26 <sup>0</sup> 51  | n.a. |
| F 21 | 10 57 14 | 16 <sup>16</sup> 22'20  | 3 <sup>3</sup> U11   | 22 <sup>0</sup> 12  | 17 <sup>3</sup> 32  | 16 <sup>4</sup> 45 | 2 <sup>0</sup> 42   | 1 <sup>0</sup> 27  | 2 <sup>0</sup> 7   | 20 <sup>3</sup> 1   | 24 <sup>0</sup> D21 | 27 <sup>0</sup> 26  | 28 <sup>4</sup> 9   | 26 <sup>0</sup> 58  | n.a. |
| S 22 | 11 1 10  | 17 <sup>17</sup> 20'19  | 17 <sup>0</sup> 5    | 22 <sup>2</sup> 42  | 17 <sup>3</sup> 37  | 17 <sup>1</sup> 19 | 2 <sup>0</sup> 54   | 1 <sup>0</sup> 30  | 2 <sup>0</sup> 11  | 20 <sup>3</sup> 0   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> 23  | 28 <sup>4</sup> 6   | 27 <sup>0</sup> 4   | n.a. |
| S 23 | 11 5 7   | 18 <sup>18</sup> 18'16  | 0 <sup>0</sup> U50   | 23 <sup>0</sup> 15  | 17 <sup>1</sup> R39 | 17 <sup>5</sup> 4  | 3 <sup>0</sup> 6    | 1 <sup>0</sup> 33  | 2 <sup>0</sup> 14  | 20 <sup>2</sup> 8   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> 18  | 28 <sup>4</sup> 2   | 27 <sup>0</sup> 11  | n.a. |
| M24  | 11 9 4   | 19 <sup>19</sup> 16'11  | 14 <sup>2</sup> 24   | 23 <sup>5</sup> 52  | 17 <sup>3</sup> 39  | 18 <sup>2</sup> 29 | 3 <sup>0</sup> 18   | 1 <sup>0</sup> 37  | 2 <sup>0</sup> 17  | 20 <sup>2</sup> 7   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> 12  | 28 <sup>3</sup> 9   | 27 <sup>0</sup> 18  | n.a. |
| T 25 | 11 13 0  | 20 <sup>20</sup> 14'03  | 27 <sup>2</sup> 45   | 24 <sup>3</sup> 33  | 17 <sup>3</sup> 37  | 19 <sup>0</sup> 3  | 3 <sup>0</sup> 30   | 1 <sup>0</sup> 40  | 2 <sup>0</sup> 20  | 20 <sup>2</sup> 6   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> 6   | 28 <sup>3</sup> 6   | 27 <sup>0</sup> 24  | n.a. |
| W26  | 11 16 57 | 21 <sup>21</sup> 11'54  | 10 <sup>10</sup> U52 | 25 <sup>0</sup> 18  | 17 <sup>3</sup> 32  | 19 <sup>3</sup> 38 | 3 <sup>0</sup> 42   | 1 <sup>0</sup> 43  | 2 <sup>0</sup> 24  | 20 <sup>2</sup> 4   | 24 <sup>2</sup> 21  | 27 <sup>0</sup> 0   | 28 <sup>3</sup> 3   | 27 <sup>0</sup> 31  | n.a. |
| T 27 | 11 20 53 | 22 <sup>22</sup> 9'44   | 23 <sup>2</sup> 44   | 26 <sup>0</sup> 7   | 17 <sup>2</sup> 24  | 20 <sup>1</sup> 13 | 3 <sup>0</sup> 54   | 1 <sup>0</sup> 46  | 2 <sup>0</sup> 27  | 20 <sup>2</sup> 3   | 24 <sup>2</sup> 22  | 26 <sup>5</sup> 6   | 28 <sup>3</sup> 0   | 27 <sup>0</sup> 38  | n.a. |
| F 28 | 11 24 50 | 23 <sup>23</sup> 7'31   | 6 <sup>6</sup> U21   | 26 <sup>5</sup> 58  | 17 <sup>1</sup> 15  | 20 <sup>4</sup> 48 | 4 <sup>0</sup> 6    | 1 <sup>0</sup> 49  | 2 <sup>0</sup> 30  | 20 <sup>2</sup> 2   | 24 <sup>2</sup> 22  | 26 <sup>5</sup> 2   | 28 <sup>2</sup> 6   | 27 <sup>0</sup> 44  | n.a. |
| S 29 | 11 28 46 | 24 <sup>24</sup> 5'17   | 18 <sup>1</sup> 44   | 27 <sup>5</sup> 53  | 17 <sup>0</sup> 2   | 21 <sup>2</sup> 23 | 4 <sup>0</sup> 17   | 1 <sup>0</sup> 52  | 2 <sup>0</sup> 33  | 20 <sup>2</sup> 0   | 24 <sup>2</sup> 22  | 26 <sup>5</sup> 1   | 28 <sup>2</sup> 3   | 27 <sup>0</sup> 51  | n.a. |
| S 30 | 11 32 43 | 25 <sup>25</sup> 3'02   | 0 <sup>0</sup> M53   | 28 <sup>5</sup> 51  | 16 <sup>4</sup> 48  | 21 <sup>5</sup> 58 | 4 <sup>0</sup> 29   | 1 <sup>0</sup> 54  | 2 <sup>0</sup> 37  | 20 <sup>1</sup> 9   | 24 <sup>2</sup> 22  | 26 <sup>0</sup> D50 | 28 <sup>2</sup> 0   | 27 <sup>0</sup> 58  | n.a. |
| M31  | 11 36 39 | 26 <sup>26</sup> X 0'45 | 12 <sup>12</sup> M52 | 29 <sup>5</sup> 53  | 16 <sup>6</sup> Y31 | 22 <sup>5</sup> 33 | 4 <sup>0</sup> 40   | 1 <sup>0</sup> 57  | 2 <sup>0</sup> 40  | 20 <sup>1</sup> 8   | 24 <sup>2</sup> U22 | 26 <sup>0</sup> Y51 | 28 <sup>1</sup> Y17 | 28 <sup>1</sup> M 4 | n.a. |

Delta T = 10h10m11s Julian Calendar 1 March 1514 BCE == Greg. Calendar 15 Feb. 1514 BCE

The year -1513 astronomical counting style corresponds to year 1514 B.C.E historical counting style.

APRIL 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t    | ☉                       | ☽                    | ♀                  | ♂                   | ♃                   | ♄                  | ♅                  | ♆                  | ♇                   | ♁                   | ♂                   | ♆                   | ♁                   |      |
|------|----------|-------------------------|----------------------|--------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|
| T 1  | 11 40 36 | 26 <sup>26</sup> X58'26 | 24 <sup>24</sup> M44 | 0 <sup>0</sup> X57 | 16 <sup>1</sup> R11 | 23 <sup>2</sup> U 8 | 4 <sup>4</sup> U52 | 1 <sup>1</sup> U59 | 2 <sup>2</sup> X43 | 20 <sup>2</sup> R16 | 24 <sup>2</sup> U23 | 26 <sup>2</sup> Y53 | 28 <sup>2</sup> Y14 | 28 <sup>2</sup> M11 | n.a. |
| W 2  | 11 44 32 | 27 <sup>27</sup> 56'07  | 6 <sup>6</sup> X34   | 2 <sup>0</sup> 4   | 15 <sup>1</sup> Y50 | 23 <sup>2</sup> 43  | 5 <sup>0</sup> 3   | 2 <sup>0</sup> 2   | 2 <sup>0</sup> 46  | 20 <sup>1</sup> U15 | 24 <sup>2</sup> 23  | 26 <sup>2</sup> 55  | 28 <sup>1</sup> 11  | 28 <sup>1</sup> 18  | n.a. |
| T 3  | 11 48 29 | 28 <sup>28</sup> 53'46  | 18 <sup>1</sup> 25   | 3 <sup>0</sup> 13  | 15 <sup>1</sup> 26  | 24 <sup>2</sup> 18  | 5 <sup>0</sup> 14  | 2 <sup>0</sup> 4   | 2 <sup>0</sup> 49  | 20 <sup>1</sup> 4   | 24 <sup>2</sup> 23  | 26 <sup>2</sup> 56  | 28 <sup>0</sup> 7   | 28 <sup>0</sup> 24  | n.a. |
| F 4  | 11 52 26 | 29 <sup>29</sup> 51'24  | 0 <sup>0</sup> U24   | 4 <sup>0</sup> 26  | 15 <sup>0</sup> 0   | 24 <sup>2</sup> 53  | 5 <sup>0</sup> 26  | 2 <sup>0</sup> 7   | 2 <sup>0</sup> 53  | 20 <sup>1</sup> 3   | 24 <sup>2</sup> 24  | 26 <sup>2</sup> R56 | 28 <sup>0</sup> 4   | 28 <sup>0</sup> 31  | n.a. |
| S 5  | 11 56 22 | 0 <sup>0</sup> Y49'01   | 12 <sup>1</sup> 33   | 5 <sup>0</sup> 41  | 14 <sup>1</sup> 32  | 25 <sup>2</sup> 29  | 5 <sup>0</sup> 37  | 2 <sup>0</sup> 9   | 2 <sup>0</sup> 56  | 20 <sup>1</sup> 2   | 24 <sup>2</sup> 24  | 26 <sup>2</sup> 56  | 28 <sup>0</sup> 1   | 28 <sup>0</sup> 38  | n.a. |
| S 6  | 12 0 19  | 1 <sup>0</sup> 46'37    | 24 <sup>2</sup> 59   | 6 <sup>0</sup> 58  | 14 <sup>0</sup> 2   | 26 <sup>0</sup> 4   | 5 <sup>0</sup> 48  | 2 <sup>0</sup> 11  | 2 <sup>0</sup> 59  | 20 <sup>1</sup> 0   | 24 <sup>2</sup> 25  | 26 <sup>2</sup> 54  | 27 <sup>5</sup> 8   | 28 <sup>0</sup> 44  | n.a. |
| M 7  | 12 4 15  | 2 <sup>2</sup> 44'12    | 7 <sup>7</sup> U45   | 8 <sup>0</sup> 18  | 13 <sup>3</sup> 30  | 26 <sup>2</sup> 39  | 5 <sup>0</sup> 58  | 2 <sup>0</sup> 13  | 3 <sup>0</sup> 2   | 20 <sup>0</sup> 9   | 24 <sup>2</sup> 25  | 26 <sup>2</sup> 51  | 27 <sup>5</sup> 5   | 28 <sup>0</sup> 51  | n.a. |
| T 8  | 12 8 12  | 3 <sup>3</sup> 41'45    | 20 <sup>2</sup> 53   | 9 <sup>0</sup> 41  | 12 <sup>2</sup> 57  | 27 <sup>2</sup> 14  | 6 <sup>0</sup> 9   | 2 <sup>0</sup> 15  | 3 <sup>0</sup> 5   | 20 <sup>0</sup> 8   | 24 <sup>2</sup> 26  | 26 <sup>2</sup> 48  | 27 <sup>5</sup> 2   | 28 <sup>0</sup> 58  | n.a. |
| W 9  | 12 12 8  | 4 <sup>4</sup> 39'17    | 4 <sup>4</sup> X25   | 11 <sup>0</sup> 5  | 12 <sup>2</sup> 23  | 27 <sup>2</sup> 50  | 6 <sup>0</sup> 20  | 2 <sup>0</sup> 16  | 3 <sup>0</sup> 8   | 20 <sup>0</sup> 7   | 24 <sup>2</sup> 26  | 26 <sup>2</sup> 45  | 27 <sup>4</sup> 8   | 29 <sup>0</sup> 4   | n.a. |
| T 10 | 12 16 5  | 5 <sup>5</sup> 36'48    | 18 <sup>1</sup> 19   | 12 <sup>2</sup> 33 | 11 <sup>1</sup> 47  | 28 <sup>2</sup> 25  | 6 <sup>0</sup> 30  | 2 <sup>0</sup> 18  | 3 <sup>0</sup> 11  | 20 <sup>0</sup> 6   | 24 <sup>2</sup> 27  | 26 <sup>2</sup> 42  | 27 <sup>4</sup> 5   | 29 <sup>0</sup> 11  | n.a. |
| F 11 | 12 20 1  | 6 <sup>6</sup> 34'18    | 2 <sup>2</sup> Y34   | 14 <sup>0</sup> 2  | 11 <sup>1</sup> 11  | 29 <sup>0</sup> 1   | 6 <sup>0</sup> 41  | 2 <sup>0</sup> 20  | 3 <sup>0</sup> 14  | 20 <sup>0</sup> 5   | 24 <sup>2</sup> 27  | 26 <sup>2</sup> 40  | 27 <sup>4</sup> 2   | 29 <sup>0</sup> 18  | n.a. |
| S 12 | 12 23 58 | 7 <sup>7</sup> 31'46    | 17 <sup>1</sup> 5    | 15 <sup>1</sup> 34 | 10 <sup>3</sup> 34  | 29 <sup>0</sup> 36  | 6 <sup>0</sup> 51  | 2 <sup>0</sup> 21  | 3 <sup>0</sup> 17  | 20 <sup>0</sup> 4   | 24 <sup>2</sup> 28  | 26 <sup>2</sup> 39  | 27 <sup>3</sup> 9   | 29 <sup>0</sup> 24  | n.a. |
| S 13 | 12 27 55 | 8 <sup>8</sup> 29'14    | 1 <sup>1</sup> U44   | 17 <sup>0</sup> 9  | 9 <sup>5</sup> 56   | 0 <sup>0</sup> U12  | 7 <sup>0</sup> 1   | 2 <sup>0</sup> 23  | 3 <sup>0</sup> 20  | 20 <sup>0</sup> 3   | 24 <sup>2</sup> 28  | 26 <sup>2</sup> D39 | 27 <sup>3</sup> 6   | 29 <sup>0</sup> 31  | n.a. |
| M14  | 12 31 51 | 9 <sup>9</sup> 26'40    | 16 <sup>1</sup> 27   | 18 <sup>0</sup> 45 | 9 <sup>0</sup> 18   | 0 <sup>0</sup> 47   | 7 <sup>0</sup> 12  | 2 <sup>0</sup> 24  | 3 <sup>0</sup> 23  | 20 <sup>0</sup> 2   | 24 <sup>2</sup> 29  | 26 <sup>2</sup> 39  | 27 <sup>3</sup> 2   | 29 <sup>0</sup> 38  | n.a. |
| T 15 | 12 35 48 | 10 <sup>10</sup> 24'04  | 1 <sup>1</sup> U 6   | 20 <sup>0</sup> 24 | 8 <sup>0</sup> 41   | 1 <sup>0</sup> 23   | 7 <sup>0</sup> 22  | 2 <sup>0</sup> 25  | 3 <sup>0</sup> 26  | 20 <sup>0</sup> 1   | 24 <sup>2</sup> 30  | 26 <sup>2</sup> 40  | 27 <sup>2</sup> 9   | 29 <sup>0</sup> 44  | n.a. |
| W16  | 12 39 44 | 11 <sup>11</sup> 21'28  | 15 <sup>1</sup> 37   | 22 <sup>0</sup> 5  | 8 <sup>0</sup> 3    | 1 <sup>0</sup> 59   | 7 <sup>0</sup> 32  | 2 <sup>0</sup> 26  | 3 <sup>0</sup> 29  | 20 <sup>0</sup> 0   | 24 <sup>2</sup> 30  | 26 <sup>2</sup> 41  | 27 <sup>2</sup> 6   | 29 <sup>0</sup> 51  | n.a. |
| T 17 | 12 43 41 | 12 <sup>12</sup> 18'50  | 29 <sup>2</sup> 54   | 23 <sup>3</sup> 49 | 7 <sup>6</sup> 26   | 2 <sup>3</sup> 34   | 7 <sup>0</sup> 41  | 2 <sup>0</sup> 27  | 3 <sup>0</sup> 31  | 19 <sup>5</sup> 9   | 24 <sup>2</sup> 31  | 26 <sup>2</sup> 42  | 27 <sup>2</sup> 3   | 29 <sup>0</sup> 58  | n.a. |
| F 18 | 12 47 37 | 13 <sup>13</sup> 16'10  | 13 <sup>13</sup> U57 | 25 <sup>2</sup> 34 | 6 <sup>4</sup> 49   | 3 <sup>1</sup> 0    | 7 <sup>0</sup> 51  | 2 <sup>0</sup> 28  | 3 <sup>0</sup> 34  | 19 <sup>5</sup> 9   | 24 <sup>2</sup> 32  | 26 <sup>2</sup> R43 | 27 <sup>2</sup> 0   | 0 <sup>0</sup> X 4  | n.a. |
| S 19 | 12       |                         |                      |                    |                     |                     |                    |                    |                    |                     |                     |                     |                     |                     |      |

SWISS EPHEMERIS for the year 1514 BCE

MAY 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽       | ♀       | ♁      | ♂       | ♃     | ♄     | ♅     | ♆      | ♇       | ♈      | ♉      | ♊    | ♋    | ♌ | ♍ |
|------|----------|----------|---------|---------|--------|---------|-------|-------|-------|--------|---------|--------|--------|------|------|---|---|
| T 1  | 13 38 53 | 25°39'58 | 26°43   | 21°36   | 1°R24  | 10°II57 | 9°46  | 2°R31 | 4°K 8 | 19°R50 | 24°II43 | 26°V37 | 26°V38 | 1°31 | n.a. |   |   |
| F 2  | 13 42 49 | 26°37'06 | 8°31    | 23°47   | 1°V14  | 11°33   | 9°54  | 2°31  | 4°11  | 19°L50 | 24°44   | 26°R37 | 26°35  | 1°38 | n.a. |   |   |
| S 3  | 13 46 46 | 27°34'14 | 20°50   | 25°58   | 1° 7   | 12°10   | 10° 1 | 2°30  | 4°13  | 19°49  | 24°46   | 26°R37 | 26°32  | 1°45 | n.a. |   |   |
| S 4  | 13 50 42 | 28°31'22 | 3°14    | 28°10   | 1° 2   | 12°46   | 10° 9 | 2°30  | 4°15  | 19°49  | 24°47   | 26°D37 | 26°29  | 1°51 | n.a. |   |   |
| M 5  | 13 54 39 | 29°28'29 | 15°57   | 0°21    | 1° 0   | 13°22   | 10°16 | 2°29  | 4°17  | 19°49  | 24°48   | 26°38  | 26°26  | 1°58 | n.a. |   |   |
| T 6  | 13 58 35 | 0°25'36  | 29° 2   | 2°32    | 1°D 0  | 13°58   | 10°24 | 2°28  | 4°20  | 19°48  | 24°49   | 26°38  | 26°23  | 2° 5 | n.a. |   |   |
| W 7  | 14 2 32  | 1°22'42  | 12°33   | 4°43    | 1° 2   | 14°35   | 10°31 | 2°27  | 4°22  | 19°48  | 24°50   | 26°38  | 26°19  | 2°11 | n.a. |   |   |
| T 8  | 14 6 28  | 2°19'49  | 26°30   | 6°53    | 1° 6   | 15°11   | 10°38 | 2°26  | 4°24  | 19°48  | 24°51   | 26°39  | 26°16  | 2°18 | n.a. |   |   |
| F 9  | 14 10 25 | 3°16'55  | 10°V51  | 9° 2    | 1°13   | 15°48   | 10°45 | 2°25  | 4°26  | 19°48  | 24°53   | 26°39  | 26°13  | 2°25 | n.a. |   |   |
| S 10 | 14 14 21 | 4°14'01  | 25°33   | 11° 9   | 1°22   | 16°24   | 10°52 | 2°24  | 4°28  | 19°47  | 24°54   | 26°R39 | 26°10  | 2°31 | n.a. |   |   |
| S 11 | 14 18 18 | 5°11'07  | 10°30   | 13°16   | 1°33   | 17° 1   | 10°58 | 2°22  | 4°30  | 19°47  | 24°55   | 26°39  | 26° 7  | 2°38 | n.a. |   |   |
| M12  | 14 22 15 | 6° 8'13  | 25°34   | 15°20   | 1°46   | 17°37   | 11° 5 | 2°21  | 4°32  | 19°47  | 24°56   | 26°38  | 26° 3  | 2°45 | n.a. |   |   |
| T13  | 14 26 11 | 7° 5'18  | 10°II35 | 17°23   | 2° 1   | 18°14   | 11°11 | 2°19  | 4°34  | 19°47  | 24°58   | 26°37  | 26° 0  | 2°51 | n.a. |   |   |
| W14  | 14 30 8  | 8° 2'23  | 25°26   | 19°24   | 2°18   | 18°50   | 11°17 | 2°18  | 4°36  | 19°47  | 24°59   | 26°36  | 25°57  | 2°58 | n.a. |   |   |
| T15  | 14 34 4  | 8°59'27  | 9°59    | 21°24   | 2°36   | 19°27   | 11°23 | 2°16  | 4°38  | 19°D47 | 25° 0   | 26°35  | 25°54  | 3° 5 | n.a. |   |   |
| F16  | 14 38 1  | 9°56'32  | 24°12   | 23°21   | 2°57   | 20° 3   | 11°29 | 2°14  | 4°40  | 19°47  | 25° 2   | 26°34  | 25°51  | 3°11 | n.a. |   |   |
| S17  | 14 41 57 | 10°53'35 | 8°L 1   | 25°16   | 3°19   | 20°40   | 11°35 | 2°12  | 4°42  | 19°47  | 25° 3   | 26°D34 | 25°48  | 3°18 | n.a. |   |   |
| S18  | 14 45 54 | 11°50'38 | 21°26   | 27° 9   | 3°43   | 21°17   | 11°40 | 2°10  | 4°44  | 19°47  | 25° 4   | 26°34  | 25°44  | 3°25 | n.a. |   |   |
| M19  | 14 49 51 | 12°47'41 | 4°30    | 29° 1   | 4° 9   | 21°54   | 11°45 | 2° 8  | 4°45  | 19°47  | 25° 6   | 26°35  | 25°41  | 3°31 | n.a. |   |   |
| T20  | 14 53 47 | 13°44'44 | 17°16   | 0°II50  | 4°36   | 22°30   | 11°50 | 2° 6  | 4°47  | 19°47  | 25° 7   | 26°36  | 25°38  | 3°38 | n.a. |   |   |
| W21  | 14 57 44 | 14°41'46 | 29°45   | 2°37    | 5° 5   | 23° 7   | 11°55 | 2° 4  | 4°49  | 19°48  | 25° 9   | 26°37  | 25°35  | 3°45 | n.a. |   |   |
| T22  | 15 1 40  | 15°38'48 | 12°2    | 4°22    | 5°35   | 23°44   | 12° 0 | 2° 2  | 4°50  | 19°48  | 25°10   | 26°38  | 25°32  | 3°51 | n.a. |   |   |
| F23  | 15 5 37  | 16°35'50 | 24° 8   | 6° 4    | 6° 6   | 24°21   | 12° 5 | 1°59  | 4°52  | 19°48  | 25°11   | 26°R39 | 25°29  | 3°58 | n.a. |   |   |
| S24  | 15 9 33  | 17°32'52 | 6°L 7   | 7°45    | 6°39   | 24°58   | 12° 9 | 1°57  | 4°53  | 19°48  | 25°13   | 26°39  | 25°25  | 4° 5 | n.a. |   |   |
| S25  | 15 13 30 | 18°29'55 | 18° 1   | 9°24    | 7°13   | 25°35   | 12°14 | 1°54  | 4°55  | 19°48  | 25°14   | 26°37  | 25°22  | 4°11 | n.a. |   |   |
| M26  | 15 17 26 | 19°26'57 | 29°51   | 11° 0   | 7°49   | 26°12   | 12°18 | 1°52  | 4°56  | 19°49  | 25°16   | 26°35  | 25°19  | 4°18 | n.a. |   |   |
| T27  | 15 21 23 | 20°24'00 | 11°41   | 12°34   | 8°26   | 26°49   | 12°22 | 1°49  | 4°58  | 19°49  | 25°17   | 26°31  | 25°16  | 4°25 | n.a. |   |   |
| W28  | 15 25 20 | 21°21'03 | 23°32   | 14° 6   | 9° 3   | 27°26   | 12°25 | 1°46  | 4°59  | 19°50  | 25°19   | 26°27  | 25°13  | 4°31 | n.a. |   |   |
| T29  | 15 29 16 | 22°18'07 | 5°26    | 15°36   | 9°42   | 28° 3   | 12°29 | 1°43  | 5° 0  | 19°50  | 25°21   | 26°23  | 25° 9  | 4°38 | n.a. |   |   |
| F30  | 15 33 13 | 23°15'11 | 17°27   | 17° 4   | 10°22  | 28°40   | 12°32 | 1°40  | 5° 2  | 19°50  | 25°22   | 26°19  | 25° 6  | 4°45 | n.a. |   |   |
| S31  | 15 37 9  | 24°12'16 | 29°37   | 18°II30 | 11°V 4 | 29°II17 | 12°36 | 1°37  | 5°K 3 | 19°L51 | 25°II24 | 26°V16 | 25°V 3 | 4°51 | n.a. |   |   |

Delta T = 10h10m07s Julian Calendar 1 May 1514 BCE == Greg. Calendar 17 Apr. 1514 BCE  
 The year -1513 astronomical counting style corresponds to year 1514 B.C.E historical counting style.

JUNE 1514 BCE (-1513) JC

00:00 UT

| Day | Sid.t    | ☉          | ☽      | ♀       | ♁      | ♂       | ♃      | ♄     | ♅     | ♆      | ♇       | ♈      | ♉      | ♊    | ♋    | ♌ | ♍ |
|-----|----------|------------|--------|---------|--------|---------|--------|-------|-------|--------|---------|--------|--------|------|------|---|---|
| S 1 | 15 41 6  | 25°9'21    | 12°2   | 19°II53 | 11°V46 | 29°II54 | 12°39  | 1°R34 | 5°K 4 | 19°L51 | 25°II25 | 26°R14 | 25°V 0 | 4°58 | n.a. |   |   |
| M 2 | 15 45 2  | 26° 6'28   | 24°41  | 21°14   | 12°29  | 0°31    | 12°42  | 1°31  | 5° 5  | 19°52  | 25°27   | 26°D13 | 24°57  | 5° 5 | n.a. |   |   |
| T 3 | 15 48 59 | 27° 3'34   | 7°K41  | 22°33   | 13°13  | 1° 9    | 12°44  | 1°28  | 5° 6  | 19°53  | 25°29   | 26°V14 | 24°54  | 5°11 | n.a. |   |   |
| W 4 | 15 52 55 | 28° 0'42   | 21° 5  | 23°49   | 13°58  | 1°46    | 12°47  | 1°24  | 5° 7  | 19°53  | 25°30   | 26°15  | 24°50  | 5°18 | n.a. |   |   |
| T 5 | 15 56 52 | 28°57'50   | 4°V55  | 25° 3   | 14°44  | 2°23    | 12°49  | 1°21  | 5° 8  | 19°54  | 25°32   | 26°17  | 24°47  | 5°25 | n.a. |   |   |
| F 6 | 16 0 49  | 29°54'59   | 19°11  | 26°15   | 15°30  | 3° 0    | 12°51  | 1°17  | 5° 9  | 19°54  | 25°33   | 26°R18 | 24°44  | 5°31 | n.a. |   |   |
| S 7 | 16 4 45  | 0°II52'09  | 3°35   | 27°23   | 16°18  | 3°38    | 12°53  | 1°14  | 5°10  | 19°55  | 25°35   | 26°18  | 24°41  | 5°38 | n.a. |   |   |
| S 8 | 16 8 42  | 1°49'20    | 18°52  | 28°30   | 17° 6  | 4°15    | 12°55  | 1°10  | 5°11  | 19°56  | 25°37   | 26°16  | 24°38  | 5°45 | n.a. |   |   |
| M 9 | 16 12 38 | 2°46'32    | 4°II 5 | 29°33   | 17°55  | 4°53    | 12°56  | 1° 7  | 5°12  | 19°57  | 25°38   | 26°13  | 24°35  | 5°52 | n.a. |   |   |
| T10 | 16 16 35 | 3°43'45    | 19°19  | 0°34    | 18°44  | 5°30    | 12°58  | 1° 3  | 5°12  | 19°57  | 25°40   | 26° 8  | 24°31  | 5°58 | n.a. |   |   |
| W11 | 16 20 31 | 4°40'58    | 4°24   | 1°32    | 19°35  | 6° 8    | 12°59  | 0°59  | 5°13  | 19°58  | 25°42   | 26° 3  | 24°28  | 6° 5 | n.a. |   |   |
| T12 | 16 24 28 | 5°38'12    | 19°13  | 2°27    | 20°26  | 6°45    | 13° 0  | 0°55  | 5°14  | 19°59  | 25°44   | 25°57  | 24°25  | 6°12 | n.a. |   |   |
| F13 | 16 28 24 | 6°35'26    | 3°L37  | 3°19    | 21°17  | 7°23    | 13° 1  | 0°52  | 5°14  | 20° 0  | 25°45   | 25°52  | 24°22  | 6°18 | n.a. |   |   |
| S14 | 16 32 21 | 7°32'41    | 17°34  | 4° 7    | 22° 9  | 8° 0    | 13° 1  | 0°48  | 5°15  | 20° 1  | 25°47   | 25°49  | 24°19  | 6°25 | n.a. |   |   |
| S15 | 16 36 18 | 8°29'56    | 1°32   | 4°52    | 23° 2  | 8°38    | 13° 1  | 0°44  | 5°15  | 20° 2  | 25°49   | 25°47  | 24°15  | 6°32 | n.a. |   |   |
| M16 | 16 40 14 | 9°27'12    | 14° 5  | 5°33    | 23°56  | 9°16    | 13°R 2 | 0°40  | 5°16  | 20° 3  | 25°51   | 25°D47 | 24°12  | 6°38 | n.a. |   |   |
| T17 | 16 44 11 | 10°24'28   | 26°44  | 6°11    | 24°50  | 9°54    | 13° 2  | 0°36  | 5°16  | 20° 4  | 25°52   | 25°48  | 24° 9  | 6°45 | n.a. |   |   |
| W18 | 16 48 7  | 11°21'46   | 9°2    | 6°44    | 25°44  | 10°31   | 13° 1  | 0°31  | 5°16  | 20° 5  | 25°54   | 25°49  | 24° 6  | 6°52 | n.a. |   |   |
| T19 | 16 52 4  | 12°19'04   | 21°13  | 7°14    | 26°39  | 11° 9   | 13° 1  | 0°27  | 5°17  | 20° 6  | 25°56   | 25°R50 | 24° 3  | 6°58 | n.a. |   |   |
| F20 | 16 56 0  | 13°16'23   | 3°II11 | 7°39    | 27°34  | 11°47   | 13° 0  | 0°23  | 5°17  | 20° 7  | 25°58   | 25°50  | 24° 0  | 7° 5 | n.a. |   |   |
| S21 | 16 59 57 | 14°13'42   | 15° 4  | 7°59    | 28°30  | 12°25   | 12°59  | 0°19  | 5°17  | 20° 8  | 25°59   | 25°48  | 23°56  | 7°12 | n.a. |   |   |
| S22 | 17 3 53  | 15°11'03   | 26°53  | 8°15    | 29°27  | 13° 3   | 12°58  | 0°15  | 5°17  | 20° 9  | 26° 1   | 25°44  | 23°53  | 7°18 | n.a. |   |   |
| M23 | 17 7 50  | 16° 8'25   | 8°43   | 8°26    | 0°24   | 13°41   | 12°57  | 0°10  | 5°17  | 20°11  | 26° 3   | 25°38  | 23°50  | 7°25 | n.a. |   |   |
| T24 | 17 11 47 | 17° 5'48   | 20°34  | 8°33    | 1°21   | 14°19   | 12°56  | 0° 6  | 5°17  | 20°12  | 26° 5   | 25°30  | 23°47  | 7°32 | n.a. |   |   |
| W25 | 17 15 43 | 18° 3'12   | 2°30   | 8°R34   | 2°19   | 14°57   | 12°54  | 0° 2  | 5°R17 | 20°13  | 26° 6   | 25°20  | 23°44  | 7°38 | n.a. |   |   |
| T26 | 17 19 40 | 19° 0'38   | 14°31  | 8°29    | 3°17   | 15°35   | 12°52  | 29°47 | 5°17  | 20°14  | 26° 8   | 25°10  | 23°41  | 7°45 | n.a. |   |   |
| F27 | 17 23 36 | 19°58'04   | 26°39  | 8°20    | 4°16   | 16°13   | 12°51  | 29°53 | 5°17  | 20°16  | 26°10   | 25° 1  | 23°37  | 7°52 | n.a. |   |   |
| S28 | 17 27 33 | 20°55'33   | 8°55   | 8° 5    | 5°15   | 16°51   | 12°48  | 29°48 | 5°17  | 20°17  | 26°12   | 24°52  | 23°34  | 7°59 | n.a. |   |   |
| S29 | 17 31 29 | 21°53'02   | 21°23  | 7°45    | 6°14   | 17°29   | 12°46  | 29°44 | 5°17  | 20°18  | 26°14   | 24°46  | 23°31  | 8° 5 | n.a. |   |   |
| M30 | 17 35 26 | 22°II50'34 | 4°K 4  | 7°31    | 7°L14  | 18°3    | 12°43  | 29°43 | 5°K17 | 20°L20 | 26°II16 | 24°V42 | 23°V28 | 8°12 | n.a. |   |   |

Delta T = 10h10m05s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [7.2.2007]

SWISS EPHEMERIS for the year 1514 BCE

JULY 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽      | ♀      | ♂      | ♃     | ♄      | ♅      | ♆     | ♇     | ♁      | ♂      | ♆     | ♅     |      |
|------|----------|-----------|--------|--------|--------|-------|--------|--------|-------|-------|--------|--------|-------|-------|------|
| T 1  | 17 39 22 | 23II48°06 | 17X 3  | 6°R49  | 8R14   | 18E45 | 12°R41 | 29°R35 | 5°R17 | 20Q21 | 26II17 | 24°R41 | 23Y25 | 8X19  | n.a. |
| W 2  | 17 43 19 | 24°45'41  | 0Y21   | 6E14   | 9°15   | 19°24 | 12E38  | 29X31  | 5X16  | 20°22 | 26°19  | 24°D40 | 23°21 | 8°25  | n.a. |
| T 3  | 17 47 16 | 25°43'17  | 14° 1  | 5°34   | 10°16  | 20° 2 | 12°35  | 29°26  | 5°16  | 20°24 | 26°21  | 24°Y41 | 23°18 | 8°32  | n.a. |
| F 4  | 17 51 12 | 26°40'55  | 28° 6  | 4°51   | 11°17  | 20°40 | 12°31  | 29°21  | 5°15  | 20°25 | 26°23  | 24°R41 | 23°15 | 8°39  | n.a. |
| S 5  | 17 55 9  | 27°38'34  | 12B35  | 4° 5   | 12°18  | 21°19 | 12°28  | 29°17  | 5°15  | 20°27 | 26°25  | 24°40  | 23°12 | 8°45  | n.a. |
| S 6  | 17 59 5  | 28°36'16  | 27°25  | 3°16   | 13°20  | 21°57 | 12°24  | 29°12  | 5°14  | 20°28 | 26°26  | 24°37  | 23° 9 | 8°52  | n.a. |
| M 7  | 18 3 2   | 29°33'59  | 12II31 | 2°25   | 14°22  | 22°35 | 12°20  | 29° 8  | 5°14  | 20°30 | 26°28  | 24°31  | 23° 6 | 8°59  | n.a. |
| T 8  | 18 6 58  | 0E31'44   | 27°42  | 1°34   | 15°25  | 23°14 | 12°16  | 29° 3  | 5°13  | 20°31 | 26°30  | 24°22  | 23° 2 | 9° 5  | n.a. |
| W 9  | 18 10 55 | 1°29'31   | 12E50  | 0°43   | 16°27  | 23°52 | 12°12  | 28°59  | 5°13  | 20°33 | 26°32  | 24°13  | 22°59 | 9°12  | n.a. |
| T 10 | 18 14 52 | 2°27'19   | 27°44  | 29II54 | 17°30  | 24°31 | 12° 8  | 28°54  | 5°12  | 20°35 | 26°34  | 24° 3  | 22°56 | 9°19  | n.a. |
| F 11 | 18 18 48 | 3°25'08   | 12Q15  | 29° 7  | 18°34  | 25°10 | 12° 3  | 28°50  | 5°11  | 20°36 | 26°35  | 23°54  | 22°53 | 9°25  | n.a. |
| S 12 | 18 22 45 | 4°22'59   | 26°18  | 28°23  | 19°37  | 25°48 | 11°58  | 28°45  | 5°10  | 20°38 | 26°37  | 23°47  | 22°50 | 9°32  | n.a. |
| S 13 | 18 26 41 | 5°20'51   | 9M52   | 27°43  | 20°41  | 26°27 | 11°53  | 28°41  | 5° 9  | 20°40 | 26°39  | 23°42  | 22°47 | 9°39  | n.a. |
| M 14 | 18 30 38 | 6°18'45   | 22°58  | 27° 8  | 21°45  | 27° 6 | 11°48  | 28°36  | 5° 9  | 20°41 | 26°41  | 23°39  | 22°43 | 9°46  | n.a. |
| T 15 | 18 34 34 | 7°16'40   | 5E38   | 26°40  | 22°49  | 27°44 | 11°43  | 28°32  | 5° 8  | 20°43 | 26°43  | 23°D39 | 22°40 | 9°52  | n.a. |
| W 16 | 18 38 31 | 8°14'36   | 17°58  | 26°18  | 23°54  | 28°23 | 11°38  | 28°27  | 5° 7  | 20°45 | 26°44  | 23°R39 | 22°37 | 9°59  | n.a. |
| T 17 | 18 42 27 | 9°12'34   | 0M 4   | 26° 3  | 24°58  | 29° 2 | 11°32  | 28°23  | 5° 6  | 20°47 | 26°46  | 23°39  | 22°34 | 10° 6 | n.a. |
| F 18 | 18 46 24 | 10°10'33  | 11°59  | 25°D56 | 26° 3  | 29°41 | 11°26  | 28°19  | 5° 4  | 20°48 | 26°48  | 23°37  | 22°31 | 10°12 | n.a. |
| S 19 | 18 50 21 | 11° 8'35  | 23°48  | 25°56  | 27° 9  | 0Q20  | 11°21  | 28°14  | 5° 3  | 20°50 | 26°50  | 23°34  | 22°27 | 10°19 | n.a. |
| S 20 | 18 54 17 | 12° 6'37  | 5X37   | 26° 5  | 28°14  | 0°59  | 11°15  | 28°10  | 5° 2  | 20°52 | 26°52  | 23°28  | 22°24 | 10°26 | n.a. |
| M 21 | 18 58 14 | 13° 4'42  | 17°29  | 26°23  | 29°20  | 1°38  | 11° 9  | 28° 6  | 5° 1  | 20°54 | 26°53  | 23°19  | 22°21 | 10°32 | n.a. |
| T 22 | 19 2 10  | 14° 2'48  | 29°25  | 26°48  | 0II26  | 2°17  | 11° 2  | 28° 1  | 5° 0  | 20°56 | 26°55  | 23° 7  | 22°18 | 10°39 | n.a. |
| W 23 | 19 6 7   | 15° 0'56  | 11E28  | 27°22  | 1°32   | 2°56  | 10°56  | 27°57  | 4°58  | 20°58 | 26°57  | 22°54  | 22°15 | 10°46 | n.a. |
| T 24 | 19 10 3  | 15°59'06  | 23°39  | 28° 3  | 2°38   | 3°35  | 10°49  | 27°53  | 4°57  | 20°59 | 26°59  | 22°41  | 22°12 | 10°52 | n.a. |
| F 25 | 19 14 0  | 16°57'18  | 5E59   | 28°53  | 3°44   | 4°14  | 10°43  | 27°49  | 4°56  | 21° 1 | 27° 0  | 22°27  | 22° 8 | 10°59 | n.a. |
| S 26 | 19 17 56 | 17°55'32  | 18°29  | 29°50  | 4°51   | 4°53  | 10°36  | 27°45  | 4°54  | 21° 3 | 27° 2  | 22°16  | 22° 5 | 11° 6 | n.a. |
| S 27 | 19 21 53 | 18°53'48  | 1X 8   | 0E54   | 5°58   | 5°33  | 10°29  | 27°41  | 4°53  | 21° 5 | 27° 4  | 22° 7  | 22° 2 | 11°12 | n.a. |
| M 28 | 19 25 50 | 19°52'06  | 13°59  | 2° 4   | 7° 5   | 6°12  | 10°22  | 27°37  | 4°51  | 21° 7 | 27° 5  | 22° 1  | 21°59 | 11°19 | n.a. |
| T 29 | 19 29 46 | 20°50'26  | 27° 4  | 3°21   | 8°12   | 6°51  | 10°15  | 27°33  | 4°50  | 21° 9 | 27° 7  | 21°57  | 21°56 | 11°26 | n.a. |
| W 30 | 19 33 43 | 21°48'48  | 10Y23  | 4°44   | 9°20   | 7°31  | 10° 8  | 27°29  | 4°48  | 21°11 | 27° 9  | 21°56  | 21°53 | 11°33 | n.a. |
| T 31 | 19 37 39 | 22E47'13  | 23Y59  | 6E12   | 10II28 | 8Q10  | 10E 1  | 27X25  | 4X47  | 21Q13 | 27II10 | 21Y56  | 21Y49 | 11X39 | n.a. |

Delta T = 10h10m04s Julian Calendar 1 July 1514 BCE == Greg. Calendar 17 June 1514 BCE  
 The year -1513 astronomical counting style corresponds to year 1514 B.C.E historical counting style.

AUGUST 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀     | ♂      | ♃     | ♄     | ♅      | ♆     | ♇     | ♁      | ♂      | ♆     | ♅     |      |
|------|----------|----------|--------|-------|--------|-------|-------|--------|-------|-------|--------|--------|-------|-------|------|
| F 1  | 19 41 36 | 23E45'40 | 7B54   | 7E44  | 11II35 | 8Q49  | 9°R53 | 27°R21 | 4°R45 | 21Q15 | 27II12 | 21°R55 | 21Y46 | 11X46 | n.a. |
| S 2  | 19 45 32 | 24°44'10 | 22° 8  | 9°20  | 12°43  | 9°29  | 9E46  | 27X17  | 4X43  | 21°17 | 27°14  | 21°Y54 | 21°43 | 11°53 | n.a. |
| S 3  | 19 49 29 | 25°42'42 | 6II41  | 11° 0 | 13°51  | 10° 9 | 9°38  | 27°13  | 4°42  | 21°19 | 27°15  | 21°50  | 21°40 | 11°59 | n.a. |
| M 4  | 19 53 25 | 26°41'16 | 21°27  | 12°43 | 15° 0  | 10°48 | 9°31  | 27°10  | 4°40  | 21°21 | 27°17  | 21°43  | 21°37 | 12° 6 | n.a. |
| T 5  | 19 57 22 | 27°39'52 | 6E21   | 14°29 | 16° 8  | 11°28 | 9°23  | 27° 6  | 4°38  | 21°23 | 27°19  | 21°33  | 21°33 | 12°13 | n.a. |
| W 6  | 20 1 19  | 28°38'31 | 21°15  | 16°16 | 17°17  | 12° 7 | 9°15  | 27° 3  | 4°36  | 21°25 | 27°20  | 21°22  | 21°30 | 12°19 | n.a. |
| T 7  | 20 5 15  | 29°37'12 | 5Q59   | 18° 5 | 18°26  | 12°47 | 9° 7  | 26°59  | 4°34  | 21°28 | 27°22  | 21°11  | 21°27 | 12°26 | n.a. |
| F 8  | 20 9 12  | 0Q35'55  | 20°26  | 19°55 | 19°35  | 13°27 | 9° 0  | 26°56  | 4°33  | 21°30 | 27°23  | 21° 0  | 21°24 | 12°33 | n.a. |
| S 9  | 20 13 8  | 1°34'40  | 4M28   | 21°46 | 20°44  | 14° 7 | 8°52  | 26°53  | 4°31  | 21°32 | 27°25  | 20°52  | 21°21 | 12°39 | n.a. |
| S 10 | 20 17 5  | 2°33'27  | 18° 3  | 23°38 | 21°53  | 14°47 | 8°44  | 26°49  | 4°29  | 21°34 | 27°27  | 20°45  | 21°18 | 12°46 | n.a. |
| M 11 | 20 21 1  | 3°32'16  | 1E12   | 25°30 | 23° 2  | 15°26 | 8°36  | 26°46  | 4°27  | 21°36 | 27°28  | 20°42  | 21°14 | 12°53 | n.a. |
| T 12 | 20 24 58 | 4°31'06  | 13°55  | 27°22 | 24°12  | 16° 6 | 8°28  | 26°43  | 4°25  | 21°38 | 27°30  | 20°40  | 21°11 | 13° 0 | n.a. |
| W 13 | 20 28 54 | 5°29'59  | 26°17  | 29°14 | 25°22  | 16°46 | 8°20  | 26°40  | 4°23  | 21°40 | 27°31  | 20°D40 | 21° 8 | 13° 6 | n.a. |
| T 14 | 20 32 51 | 6°28'53  | 8M23   | 1Q 5  | 26°31  | 17°26 | 8°12  | 26°37  | 4°21  | 21°43 | 27°33  | 20°R41 | 21° 5 | 13°13 | n.a. |
| F 15 | 20 36 48 | 7°27'50  | 20°19  | 2°56  | 27°41  | 18° 6 | 8° 4  | 26°34  | 4°19  | 21°45 | 27°34  | 20°40  | 21° 2 | 13°20 | n.a. |
| S 16 | 20 40 44 | 8°26'48  | 2X10   | 4°47  | 28°51  | 18°47 | 7°56  | 26°31  | 4°16  | 21°47 | 27°36  | 20°37  | 20°59 | 13°26 | n.a. |
| S 17 | 20 44 41 | 9°25'48  | 14° 0  | 6°37  | 0E 2   | 19°27 | 7°48  | 26°29  | 4°14  | 21°49 | 27°37  | 20°32  | 20°55 | 13°33 | n.a. |
| M 18 | 20 48 37 | 10°24'51 | 25°54  | 8°26  | 1°12   | 20° 7 | 7°40  | 26°26  | 4°12  | 21°51 | 27°38  | 20°24  | 20°52 | 13°40 | n.a. |
| T 19 | 20 52 34 | 11°23'55 | 7E55   | 10°15 | 2°23   | 20°47 | 7°32  | 26°24  | 4°10  | 21°54 | 27°40  | 20°15  | 20°49 | 13°46 | n.a. |
| W 20 | 20 56 30 | 12°23'01 | 20° 7  | 12° 2 | 3°33   | 21°27 | 7°24  | 26°21  | 4° 8  | 21°56 | 27°41  | 20° 3  | 20°46 | 13°53 | n.a. |
| T 21 | 21 0 27  | 13°22'10 | 2E30   | 13°49 | 4°44   | 22° 8 | 7°16  | 26°19  | 4° 6  | 21°58 | 27°43  | 19°51  | 20°43 | 14° 0 | n.a. |
| F 22 | 21 4 23  | 14°21'20 | 15° 5  | 15°35 | 5°55   | 22°48 | 7° 8  | 26°17  | 4° 3  | 22° 0 | 27°44  | 19°39  | 20°39 | 14° 7 | n.a. |
| S 23 | 21 8 20  | 15°20'33 | 27°52  | 17°21 | 7° 6   | 23°29 | 7° 0  | 26°14  | 4° 1  | 22° 2 | 27°45  | 19°28  | 20°36 | 14°13 | n.a. |
| S 24 | 21 12 17 | 16°19'48 | 10X51  | 19° 5 | 8°17   | 24° 9 | 6°52  | 26°12  | 3°59  | 22° 5 | 27°47  | 19°20  | 20°33 | 14°20 | n.a. |
| M 25 | 21 16 13 | 17°19'05 | 24° 1  | 20°49 | 9°28   | 24°49 | 6°44  | 26°10  | 3°56  | 22° 7 | 27°48  | 19°15  | 20°30 | 14°27 | n.a. |
| T 26 | 21 20 10 | 18°18'25 | 7Y22   | 22°32 | 10°39  | 25°30 | 6°37  | 26° 8  | 3°54  | 22° 9 | 27°49  | 19°12  | 20°27 | 14°33 | n.a. |
| W 27 | 21 24 6  | 19°17'47 | 20°53  | 24°14 | 11°51  | 26°11 | 6°29  | 26° 7  | 3°52  | 22°11 | 27°50  | 19°D12 | 20°24 | 14°40 | n.a. |
| T 28 | 21 28 3  | 20°17'11 | 4B36   | 25°55 | 13° 2  | 26°51 | 6°21  | 26° 5  | 3°49  | 22°14 | 27°52  | 19°12  | 20°20 | 14°47 | n.a. |
| F 29 | 21 31 59 | 21°16'38 | 18°30  | 27°35 | 14°14  | 27°32 | 6°14  | 26° 3  | 3°47  | 22°16 | 27°53  | 19°R13 | 20°17 | 14°53 | n.a. |
| S 30 | 21 35 56 | 22°16'08 | 2II36  | 29°15 | 15°26  | 28°13 | 6° 7  | 26° 2  | 3°45  | 22°18 | 27°54  | 19°12  | 20°14 | 15° 0 | n.a. |
| S 31 | 21 39 52 | 23Q15'40 | 16II52 | 0M54  | 16E38  | 28Q53 | 5E59  | 26X 0  | 3X42  | 22Q20 | 27II55 | 19Y10  | 20Y11 | 15X 7 | n.a. |

Delta T = 10h10m02s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [7.2.2007]

SWISS EPHEMERIS for the year 1514 BCE

SEPTEMBER 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄      | ♅     | ♆     | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| M 1  | 21 43 49 | 24♄15'15 | 1♁17  | 2♃32  | 17♁50 | 29♄34 | 5°R52 | 25°R59 | 3°R40 | 22♄23 | 27♂56 | 19°R 5 | 20♃ 8 | 15♁14 | n.a. |   |   |   |   |   |   |   |   |
| T 2  | 21 47 46 | 25°14'52 | 15°46 | 4° 9  | 19° 2 | 0♃15  | 5♁45  | 25♁58  | 3♃37  | 22°25 | 27°57 | 18♃59  | 20° 4 | 15°20 | n.a. |   |   |   |   |   |   |   |   |
| W 3  | 21 51 42 | 26°14'31 | 0♄14  | 5°46  | 20°14 | 0°56  | 5°38  | 25°56  | 3°35  | 22°27 | 27°59 | 18°51  | 20° 1 | 15°27 | n.a. |   |   |   |   |   |   |   |   |
| T 4  | 21 55 39 | 27°14'13 | 14°35 | 7°22  | 21°26 | 1°37  | 5°31  | 25°55  | 3°33  | 22°29 | 28° 0 | 18°42  | 19°58 | 15°34 | n.a. |   |   |   |   |   |   |   |   |
| F 5  | 21 59 35 | 28°13'57 | 28°42 | 8°57  | 22°38 | 2°18  | 5°24  | 25°55  | 3°30  | 22°31 | 28° 1 | 18°34  | 19°55 | 15°40 | n.a. |   |   |   |   |   |   |   |   |
| S 6  | 22 3 32  | 29°13'43 | 12♃31 | 10°32 | 23°51 | 2°59  | 5°17  | 25°54  | 3°28  | 22°34 | 28° 2 | 18°27  | 19°52 | 15°47 | n.a. |   |   |   |   |   |   |   |   |
| S 7  | 22 7 28  | 0♃13'31  | 25°59 | 12° 6 | 25° 4 | 3°40  | 5°11  | 25°53  | 3°25  | 22°36 | 28° 3 | 18°23  | 19°49 | 15°54 | n.a. |   |   |   |   |   |   |   |   |
| M 8  | 22 11 25 | 1°13'21  | 9♁ 3  | 13°39 | 26°16 | 4°21  | 5° 4  | 25°52  | 3°23  | 22°38 | 28° 4 | 18°20  | 19°45 | 16° 0 | n.a. |   |   |   |   |   |   |   |   |
| T 9  | 22 15 21 | 2°13'13  | 21°46 | 15°12 | 27°29 | 5° 3  | 4°58  | 25°52  | 3°20  | 22°40 | 28° 5 | 18°D20 | 19°42 | 16° 7 | n.a. |   |   |   |   |   |   |   |   |
| W10  | 22 19 18 | 3°13'07  | 4♂10  | 16°44 | 28°42 | 5°44  | 4°52  | 25°51  | 3°18  | 22°43 | 28° 6 | 18°21  | 19°39 | 16°14 | n.a. |   |   |   |   |   |   |   |   |
| T 11 | 22 23 15 | 4°13'03  | 16°18 | 18°15 | 29°55 | 6°25  | 4°46  | 25°51  | 3°16  | 22°45 | 28° 6 | 18°22  | 19°36 | 16°21 | n.a. |   |   |   |   |   |   |   |   |
| F 12 | 22 27 11 | 5°13'01  | 28°15 | 19°46 | 1♄ 8  | 7° 7  | 4°40  | 25°51  | 3°13  | 22°47 | 28° 7 | 18°23  | 19°33 | 16°27 | n.a. |   |   |   |   |   |   |   |   |
| S 13 | 22 31 8  | 6°13'00  | 10♁ 7 | 21°16 | 2°21  | 7°48  | 4°34  | 25°51  | 3°11  | 22°49 | 28° 8 | 18°R24 | 19°30 | 16°34 | n.a. |   |   |   |   |   |   |   |   |
| S 14 | 22 35 4  | 7°13'02  | 21°58 | 22°46 | 3°34  | 8°29  | 4°28  | 25°D51 | 3° 8  | 22°51 | 28° 9 | 18°22  | 19°26 | 16°41 | n.a. |   |   |   |   |   |   |   |   |
| M15  | 22 39 1  | 8°13'05  | 3♁54  | 24°15 | 4°47  | 9°11  | 4°23  | 25°51  | 3° 6  | 22°54 | 28°10 | 18°19  | 19°23 | 16°47 | n.a. |   |   |   |   |   |   |   |   |
| T 16 | 22 42 57 | 9°13'10  | 15°59 | 25°43 | 6° 0  | 9°52  | 4°18  | 25°51  | 3° 3  | 22°56 | 28°11 | 18°14  | 19°20 | 16°54 | n.a. |   |   |   |   |   |   |   |   |
| W17  | 22 46 54 | 10°13'16 | 28°16 | 27°11 | 7°14  | 10°34 | 4°13  | 25°51  | 3° 1  | 22°58 | 28°11 | 18° 8  | 19°17 | 17° 1 | n.a. |   |   |   |   |   |   |   |   |
| T 18 | 22 50 50 | 11°13'25 | 10♁47 | 28°38 | 8°27  | 11°16 | 4° 8  | 25°52  | 2°59  | 23° 0 | 28°12 | 18° 2  | 19°14 | 17° 7 | n.a. |   |   |   |   |   |   |   |   |
| F 19 | 22 54 47 | 12°13'35 | 23°36 | 0♄ 5  | 9°41  | 11°57 | 4° 3  | 25°52  | 2°56  | 23° 2 | 28°13 | 17°55  | 19°10 | 17°14 | n.a. |   |   |   |   |   |   |   |   |
| S 20 | 22 58 44 | 13°13'47 | 6♃41  | 1°31  | 10°54 | 12°39 | 3°58  | 25°53  | 2°54  | 23° 4 | 28°14 | 17°49  | 19° 7 | 17°21 | n.a. |   |   |   |   |   |   |   |   |
| S 21 | 23 2 40  | 14°14'01 | 20° 1 | 2°56  | 12° 8 | 13°21 | 3°54  | 25°54  | 2°51  | 23° 6 | 28°14 | 17°45  | 19° 4 | 17°28 | n.a. |   |   |   |   |   |   |   |   |
| M22  | 23 6 37  | 15°14'17 | 3♃36  | 4°20  | 13°22 | 14° 3 | 3°50  | 25°54  | 2°49  | 23° 9 | 28°15 | 17°43  | 19° 1 | 17°34 | n.a. |   |   |   |   |   |   |   |   |
| T 23 | 23 10 33 | 16°14'35 | 17°22 | 5°44  | 14°35 | 14°44 | 3°46  | 25°55  | 2°47  | 23°11 | 28°15 | 17°D42 | 18°58 | 17°41 | n.a. |   |   |   |   |   |   |   |   |
| W24  | 23 14 30 | 17°14'56 | 1♁17  | 7° 6  | 15°49 | 15°26 | 3°42  | 25°56  | 2°44  | 23°13 | 28°16 | 17°42  | 18°55 | 17°48 | n.a. |   |   |   |   |   |   |   |   |
| T 25 | 23 18 26 | 18°15'18 | 15°20 | 8°28  | 17° 3 | 16° 8 | 3°38  | 25°57  | 2°42  | 23°15 | 28°17 | 17°44  | 18°51 | 17°54 | n.a. |   |   |   |   |   |   |   |   |
| F 26 | 23 22 23 | 19°15'42 | 29°26 | 9°49  | 18°17 | 16°50 | 3°35  | 25°59  | 2°40  | 23°17 | 28°17 | 17°45  | 18°48 | 18° 1 | n.a. |   |   |   |   |   |   |   |   |
| S 27 | 23 26 19 | 20°16'09 | 13♂36 | 11° 8 | 19°31 | 17°32 | 3°31  | 26° 0  | 2°37  | 23°19 | 28°18 | 17°46  | 18°45 | 18° 8 | n.a. |   |   |   |   |   |   |   |   |
| S 28 | 23 30 16 | 21°16'38 | 27°46 | 12°27 | 20°45 | 18°14 | 3°28  | 26° 1  | 2°35  | 23°21 | 28°18 | 17°R46 | 18°42 | 18°14 | n.a. |   |   |   |   |   |   |   |   |
| M29  | 23 34 13 | 22°17'08 | 11♁55 | 13°44 | 22° 0 | 18°57 | 3°25  | 26° 3  | 2°33  | 23°23 | 28°18 | 17°45  | 18°39 | 18°21 | n.a. |   |   |   |   |   |   |   |   |
| T 30 | 23 38 9  | 23♂17'41 | 26♁ 2 | 14♄59 | 23♄14 | 19♂39 | 3♁23  | 26♁ 5  | 2♃30  | 23♄25 | 28♂19 | 17♃43  | 18♃36 | 18♁28 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 10h10m00s Julian Calendar 1 Sept. 1514 BCE == Greg. Calendar 18 Aug. 1514 BCE  
 The year -1513 astronomical counting style corresponds to year 1514 B.C.E historical counting style.

OCTOBER 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♄     | ♅     | ♆     | ♇      | ♈      | ♉     | ♊      | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|------|---|---|---|---|---|---|---|---|
| W 1  | 23 42 6  | 24♃18'16 | 10♄ 2 | 16♄13  | 24♄28 | 20♃21 | 3°R20 | 26♁ 6 | 2°R28 | 23♄27 | 28♂19  | 17°R40 | 18♃32 | 18♁35  | n.a. |   |   |   |   |   |   |   |   |
| T 2  | 23 46 2  | 25°18'53 | 23°54 | 17°25  | 25°43 | 21° 3 | 3♁18  | 26° 8 | 2♃26  | 23°29 | 28°20  | 17♃36  | 18°29 | 18°41  | n.a. |   |   |   |   |   |   |   |   |
| F 3  | 23 49 59 | 26°19'31 | 7♃33  | 18°35  | 26°57 | 21°46 | 3°16  | 26°10 | 2°24  | 23°31 | 28°20  | 17°33  | 18°26 | 18°48  | n.a. |   |   |   |   |   |   |   |   |
| S 4  | 23 53 55 | 27°20'11 | 20°59 | 19°43  | 28°11 | 22°28 | 3°14  | 26°12 | 2°22  | 23°33 | 28°20  | 17°30  | 18°23 | 18°55  | n.a. |   |   |   |   |   |   |   |   |
| S 5  | 23 57 52 | 28°20'53 | 4♄ 9  | 20°48  | 29°26 | 23°10 | 3°12  | 26°14 | 2°20  | 23°35 | 28°20  | 17°29  | 18°20 | 19° 1  | n.a. |   |   |   |   |   |   |   |   |
| M 6  | 0 1 48   | 29°21'37 | 17° 1 | 21°50  | 0♃40  | 23°53 | 3°10  | 26°17 | 2°17  | 23°37 | 28°21  | 17°D28 | 18°16 | 19° 8  | n.a. |   |   |   |   |   |   |   |   |
| T 7  | 0 5 45   | 0♄22'22  | 29°37 | 22°49  | 1°55  | 24°35 | 3° 9  | 26°19 | 2°15  | 23°39 | 28°21  | 17°29  | 18°13 | 19° 15 | n.a. |   |   |   |   |   |   |   |   |
| W 8  | 0 9 42   | 1°23'08  | 11♂58 | 23°44  | 3°10  | 25°18 | 3° 8  | 26°21 | 2°13  | 23°40 | 28°21  | 17°30  | 18°10 | 19°22  | n.a. |   |   |   |   |   |   |   |   |
| T 9  | 0 13 38  | 2°23'56  | 24° 5 | 24°34  | 4°24  | 26° 1 | 3° 7  | 26°24 | 2°11  | 23°42 | 28°21  | 17°31  | 18° 7 | 19°28  | n.a. |   |   |   |   |   |   |   |   |
| F 10 | 0 17 35  | 3°24'45  | 6♁ 3  | 25°20  | 5°39  | 26°43 | 3° 7  | 26°27 | 2° 9  | 23°44 | 28°21  | 17°32  | 18° 4 | 19°35  | n.a. |   |   |   |   |   |   |   |   |
| S 11 | 0 21 31  | 4°25'35  | 17°55 | 26° 1  | 6°54  | 27°26 | 3° 6  | 26°29 | 2° 7  | 23°46 | 28°21  | 17°34  | 18° 1 | 19°42  | n.a. |   |   |   |   |   |   |   |   |
| S 12 | 0 25 28  | 5°26'27  | 29°46 | 26°35  | 8° 9  | 28° 9 | 3° 6  | 26°32 | 2° 5  | 23°48 | 28°21  | 17°34  | 17°57 | 19°48  | n.a. |   |   |   |   |   |   |   |   |
| M13  | 0 29 24  | 6°27'20  | 11♁42 | 27° 3  | 9°23  | 28°52 | 3°D 6 | 26°35 | 2° 3  | 23°50 | 28°21  | 17°R34 | 17°54 | 19°55  | n.a. |   |   |   |   |   |   |   |   |
| T 14 | 0 33 21  | 7°28'13  | 23°45 | 27°22  | 10°38 | 29°34 | 3° 6  | 26°38 | 2° 2  | 23°51 | 28°R21 | 17°34  | 17°51 | 20° 2  | n.a. |   |   |   |   |   |   |   |   |
| W15  | 0 37 17  | 8°29'08  | 6♁ 2  | 27°34  | 11°53 | 0♄17  | 3° 6  | 26°41 | 2° 0  | 23°53 | 28°21  | 17°33  | 17°48 | 20° 8  | n.a. |   |   |   |   |   |   |   |   |
| T 16 | 0 41 14  | 9°30'04  | 18°35 | 27°R36 | 13° 8 | 1° 0  | 3° 7  | 26°44 | 1°58  | 23°55 | 28°21  | 17°32  | 17°45 | 20°15  | n.a. |   |   |   |   |   |   |   |   |
| F 17 | 0 45 11  | 10°31'01 | 1♃29  | 27°29  | 14°23 | 1°43  | 3° 8  | 26°48 | 1°56  | 23°56 | 28°21  | 17°31  | 17°41 | 20°22  | n.a. |   |   |   |   |   |   |   |   |
| S 18 | 0 49 7   | 11°31'59 | 14°44 | 27°11  | 15°38 | 2°26  | 3° 9  | 26°51 | 1°54  | 23°58 | 28°21  | 17°30  | 17°38 | 20°29  | n.a. |   |   |   |   |   |   |   |   |
| S 19 | 0 53 4   | 12°32'58 | 28°21 | 26°42  | 16°53 | 3° 9  | 3°10  | 26°55 | 1°53  | 24° 0 | 28°21  | 17°29  | 17°35 | 20°35  | n.a. |   |   |   |   |   |   |   |   |
| M20  | 0 57 0   | 13°33'58 | 12♃18 | 26° 2  | 18° 8 | 3°53  | 3°11  | 26°58 | 1°51  | 24° 1 | 28°21  | 17°D29 | 17°32 | 20°42  | n.a. |   |   |   |   |   |   |   |   |
| T 21 | 1 0 57   | 14°34'59 | 26°31 | 25°11  | 19°23 | 4°36  | 3°13  | 27° 2 | 1°49  | 24° 3 | 28°21  | 17°29  | 17°29 | 20°49  | n.a. |   |   |   |   |   |   |   |   |
| W22  | 1 4 53   | 15°36'01 | 10♁56 | 24°11  | 20°38 | 5°19  | 3°15  | 27° 6 | 1°48  | 24° 4 | 28°20  | 17°29  | 17°26 | 20°55  | n.a. |   |   |   |   |   |   |   |   |
| T 23 | 1 8 50   | 16°37'05 | 25°27 | 23° 2  | 21°53 | 6° 2  | 3°17  | 27° 9 | 1°46  | 24° 6 | 28°20  | 17°29  | 17°22 | 21° 2  | n.a. |   |   |   |   |   |   |   |   |
| F 24 | 1 12 46  | 17°38'10 | 9♂59  | 21°45  | 23° 8 | 6°45  | 3°19  | 27°13 | 1°45  | 24° 7 | 28°20  | 17°R29 | 17°19 | 21° 9  | n.a. |   |   |   |   |   |   |   |   |
| S 25 | 1 16 43  | 18°39'16 | 24°26 | 20°25  | 24°23 | 7°29  | 3°21  | 27°17 | 1°43  | 24° 9 | 28°20  | 17°29  | 17°16 | 21°16  | n.a. |   |   |   |   |   |   |   |   |
| S 26 | 1 20 40  | 19°40'23 | 8♁45  | 19° 2  | 25°39 | 8°12  | 3°24  | 27°22 | 1°42  | 24°10 | 28°19  | 17°29  | 17°13 | 21°22  | n.a. |   |   |   |   |   |   |   |   |
| M27  | 1 24 36  | 20°41'32 | 22°52 | 17°40  | 26°54 | 8°56  | 3°27  | 27°26 | 1°41  | 24°12 | 28°19  | 17°D29 | 17°10 | 21°29  | n.a. |   |   |   |   |   |   |   |   |
| T 28 | 1 28 33  | 21°42'42 | 6♄47  | 16°22  | 28° 9 | 9°39  | 3°30  | 27°30 | 1°39  | 24°13 | 28°19  | 17°29  | 17° 7 | 21°36  | n.a. |   |   |   |   |   |   |   |   |
| W29  | 1 32 29  | 22°43'53 | 20°27 | 15° 9  | 29°24 | 10°23 | 3°33  | 27°34 | 1°38  | 24°15 | 28°18  | 17°30  | 17° 3 | 21°42  | n.a. |   |   |   |   |   |   |   |   |
| T 30 | 1 36 26  | 23°45'05 | 3♃54  | 14° 5  | 0♄40  | 11° 6 | 3°36  | 27°39 | 1°37  | 24°16 | 28°18  | 17°30  | 17° 0 | 21°49  | n.a. |   |   |   |   |   |   |   |   |
| F 31 | 1 40 22  | 24♄46'18 | 17♂ 7 | 13♄11  | 1♄55  | 11♄50 | 3♁40  | 27♁43 | 1♃35  | 24♄17 | 28♂17  | 17♃31  | 16♃57 | 21♁56  | n.a. |   |   |   |   |   |   |   |   |

Delta T = 10h09m58s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [7.2.2007]

SWISS EPHEMERIS for the year 1514 BCE

NOVEMBER 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t   | ☉                     | ☽                   | ♀                   | ♂                  | ♃                   | ♄                 | ♅                  | ♆                  | ♇                  | ♁                   | ♂                   | ♆                  | ♁                  | ♂    |
|------|---------|-----------------------|---------------------|---------------------|--------------------|---------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|--------------------|--------------------|------|
| S 1  | 1 44 19 | 25 <sup>h</sup> 47'31 | 0 <sup>h</sup> 5 7  | 12 <sup>h</sup> R28 | 3 <sup>h</sup> 10  | 12 <sup>h</sup> 234 | 3 <sup>h</sup> 44 | 27 <sup>h</sup> 48 | 1 <sup>h</sup> R34 | 24 <sup>h</sup> 19 | 28 <sup>h</sup> R17 | 17 <sup>h</sup> 32  | 16 <sup>h</sup> 54 | 22 <sup>h</sup> 3  | n.a. |
| S 2  | 1 48 15 | 26 <sup>h</sup> 48'46 | 12 <sup>h</sup> 54  | 11 <sup>h</sup> 55  | 4 <sup>h</sup> 25  | 13 <sup>h</sup> 17  | 3 <sup>h</sup> 48 | 27 <sup>h</sup> 53 | 1 <sup>h</sup> R33 | 24 <sup>h</sup> 20 | 28 <sup>h</sup> 16  | 17 <sup>h</sup> R32 | 16 <sup>h</sup> 51 | 22 <sup>h</sup> 9  | n.a. |
| M 3  | 1 52 12 | 27 <sup>h</sup> 50'01 | 25 <sup>h</sup> 29  | 11 <sup>h</sup> 34  | 5 <sup>h</sup> 41  | 14 <sup>h</sup> 1   | 3 <sup>h</sup> 52 | 27 <sup>h</sup> 57 | 1 <sup>h</sup> 32  | 24 <sup>h</sup> 21 | 28 <sup>h</sup> 16  | 17 <sup>h</sup> 32  | 16 <sup>h</sup> 47 | 22 <sup>h</sup> 16 | n.a. |
| T 4  | 1 56 8  | 28 <sup>h</sup> 51'17 | 7 <sup>h</sup> 52   | 11 <sup>h</sup> D24 | 6 <sup>h</sup> 56  | 14 <sup>h</sup> 45  | 3 <sup>h</sup> 56 | 28 <sup>h</sup> 2  | 1 <sup>h</sup> 31  | 24 <sup>h</sup> 22 | 28 <sup>h</sup> 15  | 17 <sup>h</sup> 31  | 16 <sup>h</sup> 44 | 22 <sup>h</sup> 23 | n.a. |
| W 5  | 2 0 5   | 29 <sup>h</sup> 52'34 | 20 <sup>h</sup> 4   | 11 <sup>h</sup> 24  | 8 <sup>h</sup> 11  | 15 <sup>h</sup> 29  | 4 <sup>h</sup> 1  | 28 <sup>h</sup> 7  | 1 <sup>h</sup> 30  | 24 <sup>h</sup> 23 | 28 <sup>h</sup> 14  | 17 <sup>h</sup> 30  | 16 <sup>h</sup> 41 | 22 <sup>h</sup> 29 | n.a. |
| T 6  | 2 4 2   | 0 <sup>h</sup> 53'51  | 2 <sup>h</sup> 7    | 11 <sup>h</sup> 34  | 9 <sup>h</sup> 27  | 16 <sup>h</sup> 13  | 4 <sup>h</sup> 6  | 28 <sup>h</sup> 12 | 1 <sup>h</sup> 29  | 24 <sup>h</sup> 25 | 28 <sup>h</sup> 14  | 17 <sup>h</sup> 28  | 16 <sup>h</sup> 38 | 22 <sup>h</sup> 36 | n.a. |
| F 7  | 2 7 58  | 1 <sup>h</sup> 55'08  | 14 <sup>h</sup> 3   | 11 <sup>h</sup> 53  | 10 <sup>h</sup> 42 | 16 <sup>h</sup> 57  | 4 <sup>h</sup> 11 | 28 <sup>h</sup> 17 | 1 <sup>h</sup> 28  | 24 <sup>h</sup> 26 | 28 <sup>h</sup> 13  | 17 <sup>h</sup> 26  | 16 <sup>h</sup> 35 | 22 <sup>h</sup> 43 | n.a. |
| S 8  | 2 11 55 | 2 <sup>h</sup> 56'26  | 25 <sup>h</sup> 55  | 12 <sup>h</sup> 19  | 11 <sup>h</sup> 57 | 17 <sup>h</sup> 41  | 4 <sup>h</sup> 16 | 28 <sup>h</sup> 22 | 1 <sup>h</sup> 28  | 24 <sup>h</sup> 27 | 28 <sup>h</sup> 13  | 17 <sup>h</sup> 23  | 16 <sup>h</sup> 32 | 22 <sup>h</sup> 50 | n.a. |
| S 9  | 2 15 51 | 3 <sup>h</sup> 57'44  | 7 <sup>h</sup> 46   | 12 <sup>h</sup> 53  | 13 <sup>h</sup> 13 | 18 <sup>h</sup> 25  | 4 <sup>h</sup> 21 | 28 <sup>h</sup> 27 | 1 <sup>h</sup> 27  | 24 <sup>h</sup> 28 | 28 <sup>h</sup> 12  | 17 <sup>h</sup> 21  | 16 <sup>h</sup> 28 | 22 <sup>h</sup> 56 | n.a. |
| M10  | 2 19 48 | 4 <sup>h</sup> 59'02  | 19 <sup>h</sup> 39  | 13 <sup>h</sup> 34  | 14 <sup>h</sup> 28 | 19 <sup>h</sup> 9   | 4 <sup>h</sup> 26 | 28 <sup>h</sup> 33 | 1 <sup>h</sup> 26  | 24 <sup>h</sup> 29 | 28 <sup>h</sup> 11  | 17 <sup>h</sup> 19  | 16 <sup>h</sup> 25 | 23 <sup>h</sup> 3  | n.a. |
| T 11 | 2 23 44 | 6 <sup>h</sup> 0'20   | 1 <sup>h</sup> 40   | 14 <sup>h</sup> 20  | 15 <sup>h</sup> 43 | 19 <sup>h</sup> 53  | 4 <sup>h</sup> 32 | 28 <sup>h</sup> 38 | 1 <sup>h</sup> 25  | 24 <sup>h</sup> 30 | 28 <sup>h</sup> 10  | 17 <sup>h</sup> D19 | 16 <sup>h</sup> 22 | 23 <sup>h</sup> 10 | n.a. |
| W12  | 2 27 41 | 7 <sup>h</sup> 1'38   | 13 <sup>h</sup> 52  | 15 <sup>h</sup> 11  | 16 <sup>h</sup> 59 | 20 <sup>h</sup> 37  | 4 <sup>h</sup> 38 | 28 <sup>h</sup> 43 | 1 <sup>h</sup> 25  | 24 <sup>h</sup> 31 | 28 <sup>h</sup> 10  | 17 <sup>h</sup> 19  | 16 <sup>h</sup> 19 | 23 <sup>h</sup> 16 | n.a. |
| T 13 | 2 31 37 | 8 <sup>h</sup> 2'56   | 26 <sup>h</sup> 21  | 16 <sup>h</sup> 7   | 18 <sup>h</sup> 14 | 21 <sup>h</sup> 21  | 4 <sup>h</sup> 44 | 28 <sup>h</sup> 49 | 1 <sup>h</sup> 24  | 24 <sup>h</sup> 32 | 28 <sup>h</sup> 9   | 17 <sup>h</sup> 20  | 16 <sup>h</sup> 16 | 23 <sup>h</sup> 23 | n.a. |
| F 14 | 2 35 34 | 9 <sup>h</sup> 4'13   | 9 <sup>h</sup> X11  | 17 <sup>h</sup> 7   | 19 <sup>h</sup> 30 | 22 <sup>h</sup> 6   | 4 <sup>h</sup> 50 | 28 <sup>h</sup> 54 | 1 <sup>h</sup> 24  | 24 <sup>h</sup> 33 | 28 <sup>h</sup> 8   | 17 <sup>h</sup> 21  | 16 <sup>h</sup> 13 | 23 <sup>h</sup> 30 | n.a. |
| S 15 | 2 39 31 | 10 <sup>h</sup> 5'31  | 22 <sup>h</sup> 25  | 18 <sup>h</sup> 11  | 20 <sup>h</sup> 45 | 22 <sup>h</sup> 50  | 4 <sup>h</sup> 56 | 29 <sup>h</sup> 0  | 1 <sup>h</sup> 23  | 24 <sup>h</sup> 34 | 28 <sup>h</sup> 7   | 17 <sup>h</sup> 23  | 16 <sup>h</sup> 9  | 23 <sup>h</sup> 36 | n.a. |
| S 16 | 2 43 27 | 11 <sup>h</sup> 6'49  | 6 <sup>h</sup> 5    | 19 <sup>h</sup> 17  | 22 <sup>h</sup> 0  | 23 <sup>h</sup> 34  | 5 <sup>h</sup> 3  | 29 <sup>h</sup> 6  | 1 <sup>h</sup> 23  | 24 <sup>h</sup> 34 | 28 <sup>h</sup> 6   | 17 <sup>h</sup> 24  | 16 <sup>h</sup> 6  | 23 <sup>h</sup> 43 | n.a. |
| M17  | 2 47 24 | 12 <sup>h</sup> 8'06  | 20 <sup>h</sup> 11  | 20 <sup>h</sup> 26  | 23 <sup>h</sup> 16 | 24 <sup>h</sup> 18  | 5 <sup>h</sup> 10 | 29 <sup>h</sup> 11 | 1 <sup>h</sup> 22  | 24 <sup>h</sup> 35 | 28 <sup>h</sup> 5   | 17 <sup>h</sup> R24 | 16 <sup>h</sup> 3  | 23 <sup>h</sup> 50 | n.a. |
| T 18 | 2 51 20 | 13 <sup>h</sup> 9'24  | 4 <sup>h</sup> 42   | 21 <sup>h</sup> 38  | 24 <sup>h</sup> 31 | 25 <sup>h</sup> 3   | 5 <sup>h</sup> 17 | 29 <sup>h</sup> 17 | 1 <sup>h</sup> 22  | 24 <sup>h</sup> 36 | 28 <sup>h</sup> 4   | 17 <sup>h</sup> 23  | 16 <sup>h</sup> 0  | 23 <sup>h</sup> 57 | n.a. |
| W19  | 2 55 17 | 14 <sup>h</sup> 10'41 | 19 <sup>h</sup> 30  | 22 <sup>h</sup> 51  | 25 <sup>h</sup> 46 | 25 <sup>h</sup> 47  | 5 <sup>h</sup> 24 | 29 <sup>h</sup> 23 | 1 <sup>h</sup> 22  | 24 <sup>h</sup> 37 | 28 <sup>h</sup> 3   | 17 <sup>h</sup> 21  | 15 <sup>h</sup> 57 | 24 <sup>h</sup> 3  | n.a. |
| T 20 | 2 59 13 | 15 <sup>h</sup> 11'59 | 4 <sup>h</sup> II29 | 24 <sup>h</sup> 7   | 27 <sup>h</sup> 2  | 26 <sup>h</sup> 32  | 5 <sup>h</sup> 31 | 29 <sup>h</sup> 29 | 1 <sup>h</sup> 21  | 24 <sup>h</sup> 37 | 28 <sup>h</sup> 3   | 17 <sup>h</sup> 18  | 15 <sup>h</sup> 53 | 24 <sup>h</sup> 10 | n.a. |
| F 21 | 3 3 10  | 16 <sup>h</sup> 13'16 | 19 <sup>h</sup> 30  | 25 <sup>h</sup> 24  | 28 <sup>h</sup> 17 | 27 <sup>h</sup> 16  | 5 <sup>h</sup> 38 | 29 <sup>h</sup> 35 | 1 <sup>h</sup> 21  | 24 <sup>h</sup> 38 | 28 <sup>h</sup> 2   | 17 <sup>h</sup> 13  | 15 <sup>h</sup> 50 | 24 <sup>h</sup> 17 | n.a. |
| S 22 | 3 7 6   | 17 <sup>h</sup> 14'34 | 4 <sup>h</sup> 24   | 26 <sup>h</sup> 43  | 29 <sup>h</sup> 33 | 28 <sup>h</sup> 1   | 5 <sup>h</sup> 45 | 29 <sup>h</sup> 41 | 1 <sup>h</sup> 21  | 24 <sup>h</sup> 39 | 28 <sup>h</sup> 1   | 17 <sup>h</sup> 9   | 15 <sup>h</sup> 47 | 24 <sup>h</sup> 23 | n.a. |
| S 23 | 3 11 3  | 18 <sup>h</sup> 15'52 | 19 <sup>h</sup> 3   | 28 <sup>h</sup> 3   | 0 <sup>h</sup> 48  | 28 <sup>h</sup> 46  | 5 <sup>h</sup> 53 | 29 <sup>h</sup> 47 | 1 <sup>h</sup> 21  | 24 <sup>h</sup> 39 | 28 <sup>h</sup> 0   | 17 <sup>h</sup> 5   | 15 <sup>h</sup> 44 | 24 <sup>h</sup> 30 | n.a. |
| M24  | 3 15 0  | 19 <sup>h</sup> 17'10 | 3 <sup>h</sup> 22   | 29 <sup>h</sup> 24  | 2 <sup>h</sup> 3   | 29 <sup>h</sup> 30  | 6 <sup>h</sup> 1  | 29 <sup>h</sup> 53 | 1 <sup>h</sup> D21 | 24 <sup>h</sup> 40 | 27 <sup>h</sup> 59  | 17 <sup>h</sup> 3   | 15 <sup>h</sup> 41 | 24 <sup>h</sup> 37 | n.a. |
| T 25 | 3 18 56 | 20 <sup>h</sup> 18'28 | 17 <sup>h</sup> 19  | 0 <sup>h</sup> 46   | 3 <sup>h</sup> 19  | 0 <sup>h</sup> 15   | 6 <sup>h</sup> 9  | 29 <sup>h</sup> 59 | 1 <sup>h</sup> 21  | 24 <sup>h</sup> 40 | 27 <sup>h</sup> 57  | 17 <sup>h</sup> D 2 | 15 <sup>h</sup> 38 | 24 <sup>h</sup> 44 | n.a. |
| W26  | 3 22 53 | 21 <sup>h</sup> 19'45 | 0 <sup>h</sup> 53   | 2 <sup>h</sup> 9    | 4 <sup>h</sup> 34  | 1 <sup>h</sup> 0    | 6 <sup>h</sup> 17 | 0 <sup>h</sup> 5   | 1 <sup>h</sup> 21  | 24 <sup>h</sup> 41 | 27 <sup>h</sup> 56  | 17 <sup>h</sup> 2   | 15 <sup>h</sup> 34 | 24 <sup>h</sup> 50 | n.a. |
| T 27 | 3 26 49 | 22 <sup>h</sup> 21'03 | 14 <sup>h</sup> 7   | 3 <sup>h</sup> 34   | 5 <sup>h</sup> 49  | 1 <sup>h</sup> 44   | 6 <sup>h</sup> 25 | 0 <sup>h</sup> 12  | 1 <sup>h</sup> 21  | 24 <sup>h</sup> 41 | 27 <sup>h</sup> 55  | 17 <sup>h</sup> 3   | 15 <sup>h</sup> 31 | 24 <sup>h</sup> 57 | n.a. |
| F 28 | 3 30 46 | 23 <sup>h</sup> 22'21 | 27 <sup>h</sup> 3   | 4 <sup>h</sup> 59   | 7 <sup>h</sup> 5   | 2 <sup>h</sup> 29   | 6 <sup>h</sup> 34 | 0 <sup>h</sup> 18  | 1 <sup>h</sup> 22  | 24 <sup>h</sup> 42 | 27 <sup>h</sup> 54  | 17 <sup>h</sup> 5   | 15 <sup>h</sup> 28 | 25 <sup>h</sup> 4  | n.a. |
| S 29 | 3 34 42 | 24 <sup>h</sup> 23'38 | 9 <sup>h</sup> 43   | 6 <sup>h</sup> 24   | 8 <sup>h</sup> 20  | 3 <sup>h</sup> 14   | 6 <sup>h</sup> 42 | 0 <sup>h</sup> 24  | 1 <sup>h</sup> 22  | 24 <sup>h</sup> 42 | 27 <sup>h</sup> 53  | 17 <sup>h</sup> 6   | 15 <sup>h</sup> 25 | 25 <sup>h</sup> 11 | n.a. |
| S 30 | 3 38 39 | 25 <sup>h</sup> 24'55 | 22 <sup>h</sup> 10  | 7 <sup>h</sup> 51   | 9 <sup>h</sup> 35  | 3 <sup>h</sup> 59   | 6 <sup>h</sup> 51 | 0 <sup>h</sup> 31  | 1 <sup>h</sup> X22 | 24 <sup>h</sup> 43 | 27 <sup>h</sup> 52  | 17 <sup>h</sup> R 6 | 15 <sup>h</sup> 22 | 25 <sup>h</sup> 17 | n.a. |

Delta T = 10h09m56s Julian Calendar 1 Nov. 1514 BCE == Greg. Calendar 18 Oct. 1514 BCE  
 The year -1513 astronomical counting style corresponds to year 1514 B.C.E historical counting style.

DECEMBER 1514 BCE (-1513) JC

00:00 UT

| Day  | Sid.t   | ☉                     | ☽                    | ♀                  | ♂                  | ♃                  | ♄                  | ♅                 | ♆                   | ♇                   | ♁                   | ♂                   | ♆                  | ♁                  | ♂    |
|------|---------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|-------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|------|
| M 1  | 3 42 35 | 26 <sup>h</sup> 26'12 | 4 <sup>h</sup> 28    | 9 <sup>h</sup> 18  | 10 <sup>h</sup> 51 | 4 <sup>h</sup> 44  | 7 <sup>h</sup> 8   | 0 <sup>h</sup> 37 | 1 <sup>h</sup> X22  | 24 <sup>h</sup> 43  | 27 <sup>h</sup> R51 | 17 <sup>h</sup> R 5 | 15 <sup>h</sup> 19 | 25 <sup>h</sup> 24 | n.a. |
| T 2  | 3 46 32 | 27 <sup>h</sup> 27'28 | 16 <sup>h</sup> 37   | 10 <sup>h</sup> 46 | 12 <sup>h</sup> 6  | 5 <sup>h</sup> 29  | 7 <sup>h</sup> 8   | 0 <sup>h</sup> 44 | 1 <sup>h</sup> 23   | 24 <sup>h</sup> 43  | 27 <sup>h</sup> 50  | 17 <sup>h</sup> Y 1 | 15 <sup>h</sup> 15 | 25 <sup>h</sup> 31 | n.a. |
| W 3  | 3 50 29 | 28 <sup>h</sup> 28'44 | 28 <sup>h</sup> 39   | 12 <sup>h</sup> 14 | 13 <sup>h</sup> 21 | 6 <sup>h</sup> 14  | 7 <sup>h</sup> 18  | 0 <sup>h</sup> 50 | 1 <sup>h</sup> 23   | 24 <sup>h</sup> 43  | 27 <sup>h</sup> 48  | 16 <sup>h</sup> 55  | 15 <sup>h</sup> 12 | 25 <sup>h</sup> 37 | n.a. |
| T 4  | 3 54 25 | 29 <sup>h</sup> 30'00 | 10 <sup>h</sup> X36  | 13 <sup>h</sup> 43 | 14 <sup>h</sup> 37 | 6 <sup>h</sup> 59  | 7 <sup>h</sup> 27  | 0 <sup>h</sup> 57 | 1 <sup>h</sup> 24   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 47  | 16 <sup>h</sup> 48  | 15 <sup>h</sup> 9  | 25 <sup>h</sup> 44 | n.a. |
| F 5  | 3 58 22 | 0 <sup>h</sup> X31'14 | 22 <sup>h</sup> 30   | 15 <sup>h</sup> 13 | 15 <sup>h</sup> 52 | 7 <sup>h</sup> 44  | 7 <sup>h</sup> 36  | 1 <sup>h</sup> 3  | 1 <sup>h</sup> 24   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 46  | 16 <sup>h</sup> 39  | 15 <sup>h</sup> 6  | 25 <sup>h</sup> 51 | n.a. |
| S 6  | 4 2 18  | 1 <sup>h</sup> 32'28  | 4 <sup>h</sup> 21    | 16 <sup>h</sup> 43 | 17 <sup>h</sup> 7  | 8 <sup>h</sup> 29  | 7 <sup>h</sup> 46  | 1 <sup>h</sup> 10 | 1 <sup>h</sup> 25   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 45  | 16 <sup>h</sup> 30  | 15 <sup>h</sup> 3  | 25 <sup>h</sup> 58 | n.a. |
| S 7  | 4 6 15  | 2 <sup>h</sup> 33'41  | 16 <sup>h</sup> 12   | 18 <sup>h</sup> 14 | 18 <sup>h</sup> 23 | 9 <sup>h</sup> 14  | 7 <sup>h</sup> 55  | 1 <sup>h</sup> 17 | 1 <sup>h</sup> 26   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 43  | 16 <sup>h</sup> 21  | 14 <sup>h</sup> 59 | 26 <sup>h</sup> 4  | n.a. |
| M 8  | 4 10 11 | 3 <sup>h</sup> 34'53  | 28 <sup>h</sup> 6    | 19 <sup>h</sup> 45 | 19 <sup>h</sup> 38 | 9 <sup>h</sup> 59  | 8 <sup>h</sup> 5   | 1 <sup>h</sup> 24 | 1 <sup>h</sup> 26   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 42  | 16 <sup>h</sup> 14  | 14 <sup>h</sup> 56 | 26 <sup>h</sup> 11 | n.a. |
| T 9  | 4 14 8  | 4 <sup>h</sup> 36'04  | 10 <sup>h</sup> 8    | 21 <sup>h</sup> 17 | 20 <sup>h</sup> 53 | 10 <sup>h</sup> 45 | 8 <sup>h</sup> 15  | 1 <sup>h</sup> 30 | 1 <sup>h</sup> 27   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 41  | 16 <sup>h</sup> 8   | 14 <sup>h</sup> 53 | 26 <sup>h</sup> 18 | n.a. |
| W10  | 4 18 5  | 5 <sup>h</sup> 37'14  | 22 <sup>h</sup> 15   | 22 <sup>h</sup> 49 | 22 <sup>h</sup> 9  | 11 <sup>h</sup> 30 | 8 <sup>h</sup> 25  | 1 <sup>h</sup> 37 | 1 <sup>h</sup> 28   | 24 <sup>h</sup> R44 | 27 <sup>h</sup> 40  | 16 <sup>h</sup> 5   | 14 <sup>h</sup> 50 | 26 <sup>h</sup> 24 | n.a. |
| T 11 | 4 22 1  | 6 <sup>h</sup> 38'23  | 4 <sup>h</sup> X38   | 24 <sup>h</sup> 22 | 23 <sup>h</sup> 24 | 12 <sup>h</sup> 15 | 8 <sup>h</sup> 35  | 1 <sup>h</sup> 44 | 1 <sup>h</sup> 29   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 38  | 16 <sup>h</sup> D 4 | 14 <sup>h</sup> 47 | 26 <sup>h</sup> 31 | n.a. |
| F 12 | 4 25 58 | 7 <sup>h</sup> 39'31  | 17 <sup>h</sup> 20   | 25 <sup>h</sup> 56 | 24 <sup>h</sup> 39 | 13 <sup>h</sup> 0  | 8 <sup>h</sup> 45  | 1 <sup>h</sup> 51 | 1 <sup>h</sup> 30   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 37  | 16 <sup>h</sup> 4   | 14 <sup>h</sup> 44 | 26 <sup>h</sup> 38 | n.a. |
| S 13 | 4 29 54 | 8 <sup>h</sup> 40'37  | 0 <sup>h</sup> Y25   | 27 <sup>h</sup> 30 | 25 <sup>h</sup> 54 | 13 <sup>h</sup> 46 | 8 <sup>h</sup> 55  | 1 <sup>h</sup> 58 | 1 <sup>h</sup> 31   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 36  | 16 <sup>h</sup> 5   | 14 <sup>h</sup> 40 | 26 <sup>h</sup> 45 | n.a. |
| S 14 | 4 33 51 | 9 <sup>h</sup> 41'42  | 13 <sup>h</sup> 57   | 29 <sup>h</sup> 4  | 27 <sup>h</sup> 9  | 14 <sup>h</sup> 31 | 9 <sup>h</sup> 6   | 2 <sup>h</sup> 5  | 1 <sup>h</sup> 32   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 34  | 16 <sup>h</sup> R 6 | 14 <sup>h</sup> 37 | 26 <sup>h</sup> 51 | n.a. |
| M15  | 4 37 47 | 10 <sup>h</sup> 42'45 | 27 <sup>h</sup> 59   | 0 <sup>h</sup> X40 | 28 <sup>h</sup> 25 | 15 <sup>h</sup> 16 | 9 <sup>h</sup> 16  | 2 <sup>h</sup> 12 | 1 <sup>h</sup> 33   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 33  | 16 <sup>h</sup> 5   | 14 <sup>h</sup> 34 | 26 <sup>h</sup> 58 | n.a. |
| T 16 | 4 41 44 | 11 <sup>h</sup> 43'48 | 12 <sup>h</sup> 29   | 2 <sup>h</sup> 16  | 29 <sup>h</sup> 40 | 16 <sup>h</sup> 2  | 9 <sup>h</sup> 27  | 2 <sup>h</sup> 19 | 1 <sup>h</sup> 34   | 24 <sup>h</sup> 44  | 27 <sup>h</sup> 32  | 16 <sup>h</sup> 3   | 14 <sup>h</sup> 31 | 27 <sup>h</sup> 5  | n.a. |
| W17  | 4 45 40 | 12 <sup>h</sup> 44'49 | 27 <sup>h</sup> 24   | 3 <sup>h</sup> 52  | 0 <sup>h</sup> X55 | 16 <sup>h</sup> 47 | 9 <sup>h</sup> 38  | 2 <sup>h</sup> 26 | 1 <sup>h</sup> 35   | 24 <sup>h</sup> 43  | 27 <sup>h</sup> 30  | 15 <sup>h</sup> 57  | 14 <sup>h</sup> 28 | 27 <sup>h</sup> 11 | n.a. |
| T 18 | 4 49 37 | 13 <sup>h</sup> 45'49 | 12 <sup>h</sup> II36 | 5 <sup>h</sup> 29  | 2 <sup>h</sup> 10  | 17 <sup>h</sup> 33 | 9 <sup>h</sup> 49  | 2 <sup>h</sup> 33 | 1 <sup>h</sup> 36   | 24 <sup>h</sup> 43  | 27 <sup>h</sup> 29  | 15 <sup>h</sup> 50  | 14 <sup>h</sup> 25 | 27 <sup>h</sup> 18 | n.a. |
| F 19 | 4 53 34 | 14 <sup>h</sup> 46'48 | 27 <sup>h</sup> 56   | 7 <sup>h</sup> 7   | 3 <sup>h</sup> 25  | 18 <sup>h</sup> 18 | 10 <sup>h</sup> 0  | 2 <sup>h</sup> 40 | 1 <sup>h</sup> 38   | 24 <sup>h</sup> 43  | 27 <sup>h</sup> 27  | 15 <sup>h</sup> 41  | 14 <sup>h</sup> 21 | 27 <sup>h</sup> 25 | n.a. |
| S 20 | 4 57 30 | 15 <sup>h</sup> 47'46 | 13 <sup>h</sup> 21   | 8 <sup>h</sup> 45  | 4 <sup>h</sup> 40  | 19 <sup>h</sup> 4  | 10 <sup>h</sup> 11 | 2 <sup>h</sup> 47 | 1 <sup>h&lt;/</sup> |                     |                     |                     |                    |                    |      |