

SWISS EPHEMERIS for the year 1457

JANUARY 1457 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽        | ♀      | ♂     | ♃      | ♄      | ♅     | ♆      | ♇      | ♁      | ♂     | ♆    | ♁     | ♂      |
|------|---------|----------|----------|--------|-------|--------|--------|-------|--------|--------|--------|-------|------|-------|--------|
| S 1  | 7 17 25 | 19°53'27 | 24°42'24 | 15°R46 | 4♁ 8  | 19°R15 | 24°R14 | 12♁29 | 18°R29 | 13♁19  | 15°R 6 | 5°R55 | 6♁46 | 9♁53  | 21°R14 |
| S 2  | 7 21 21 | 20°54'33 | 8°V19    | 14♁32  | 5°23  | 18♁51  | 24♁ 6  | 12°35 | 18♁27  | 13°19  | 15♁ 4  | 5°D55 | 6°43 | 10° 0 | 21♁10  |
| M 3  | 7 25 18 | 21°55'38 | 21°50    | 13°23  | 6°38  | 18°27  | 23°58  | 12°41 | 18°24  | 13°19  | 15° 3  | 5°R55 | 6°40 | 10° 7 | 21° 6  |
| T 4  | 7 29 14 | 22°56'43 | 4♁58     | 12°21  | 7°53  | 18° 3  | 23°49  | 12°47 | 18°22  | 13°19  | 15° 2  | 5♁54  | 6°36 | 10°14 | 21° 3  |
| W 5  | 7 33 11 | 23°57'46 | 17°48    | 11°27  | 9° 8  | 17°40  | 23°41  | 12°53 | 18°20  | 13°R19 | 15° 0  | 5°52  | 6°33 | 10°20 | 20°59  |
| T 6  | 7 37 7  | 24°58'49 | 0♁22     | 10°41  | 10°24 | 17°17  | 23°33  | 12°59 | 18°17  | 13°19  | 14°59  | 5°47  | 6°30 | 10°27 | 20°55  |
| F 7  | 7 41 4  | 25°59'50 | 12°45    | 10° 5  | 11°39 | 16°54  | 23°25  | 13° 5 | 18°15  | 13°19  | 14°58  | 5°39  | 6°27 | 10°34 | 20°51  |
| S 8  | 7 45 1  | 27° 0'50 | 24°58    | 9°38   | 12°54 | 16°31  | 23°17  | 13°11 | 18°13  | 13°19  | 14°56  | 5°28  | 6°24 | 10°40 | 20°47  |
| S 9  | 7 48 57 | 28° 1'50 | 7♁ 3     | 9°20   | 14° 9 | 16° 9  | 23° 9  | 13°16 | 18°10  | 13°19  | 14°55  | 5°16  | 6°20 | 10°47 | 20°43  |
| M10  | 7 52 54 | 29° 2'48 | 19° 3    | 9°10   | 15°24 | 15°47  | 23° 1  | 13°22 | 18° 8  | 13°19  | 14°54  | 5° 2  | 6°17 | 10°54 | 20°39  |
| T 11 | 7 56 50 | 0♁ 3'46  | 0♁58     | 9°D 8  | 16°39 | 15°26  | 22°53  | 13°27 | 18° 6  | 13°19  | 14°52  | 4°49  | 6°14 | 11° 0 | 20°35  |
| W12  | 8 0 47  | 1° 4'42  | 12°50    | 9°15   | 17°54 | 15° 5  | 22°46  | 13°33 | 18° 3  | 13°18  | 14°51  | 4°38  | 6°11 | 11° 7 | 20°31  |
| T 13 | 8 4 43  | 2° 5'38  | 24°40    | 9°28   | 19° 9 | 14°45  | 22°38  | 13°38 | 18° 1  | 13°18  | 14°49  | 4°28  | 6° 8 | 11°14 | 20°26  |
| F 14 | 8 8 40  | 3° 6'32  | 6♁31     | 9°48   | 20°24 | 14°26  | 22°30  | 13°44 | 17°58  | 13°18  | 14°48  | 4°22  | 6° 5 | 11°21 | 20°22  |
| S 15 | 8 12 36 | 4° 7'26  | 18°24    | 10°14  | 21°39 | 14° 7  | 22°22  | 13°49 | 17°56  | 13°18  | 14°46  | 4°18  | 6° 1 | 11°27 | 20°18  |
| S 16 | 8 16 33 | 5° 8'19  | 0♁22     | 10°46  | 22°54 | 13°48  | 22°14  | 13°54 | 17°53  | 13°17  | 14°45  | 4°D16 | 5°58 | 11°34 | 20°13  |
| M17  | 8 20 30 | 6° 9'10  | 12°31    | 11°23  | 24° 9 | 13°30  | 22° 7  | 14° 0 | 17°50  | 13°17  | 14°44  | 4°17  | 5°55 | 11°41 | 20° 9  |
| T 18 | 8 24 26 | 7°10'01  | 24°55    | 12° 4  | 25°23 | 13°13  | 21°59  | 14° 5 | 17°48  | 13°16  | 14°42  | 4°18  | 5°52 | 11°47 | 20° 4  |
| W19  | 8 28 23 | 8°10'51  | 7♁37     | 12°50  | 26°38 | 12°57  | 21°52  | 14°10 | 17°45  | 13°16  | 14°41  | 4°R18 | 5°49 | 11°54 | 20° 0  |
| T 20 | 8 32 19 | 9°11'40  | 20°44    | 13°39  | 27°53 | 12°41  | 21°44  | 14°15 | 17°43  | 13°15  | 14°39  | 4°17  | 5°46 | 12° 1 | 19°55  |
| F 21 | 8 36 16 | 10°12'28 | 4♁18     | 14°32  | 29° 8 | 12°26  | 21°37  | 14°20 | 17°40  | 13°15  | 14°38  | 4°15  | 5°42 | 12° 7 | 19°51  |
| S 22 | 8 40 12 | 11°13'16 | 18°21    | 15°28  | 0♁23  | 12°12  | 21°30  | 14°25 | 17°38  | 13°14  | 14°36  | 4°10  | 5°39 | 12°14 | 19°46  |
| S 23 | 8 44 9  | 12°14'02 | 2♁53     | 16°28  | 1°38  | 11°58  | 21°23  | 14°30 | 17°35  | 13°14  | 14°35  | 4° 3  | 5°36 | 12°21 | 19°42  |
| M24  | 8 48 5  | 13°14'47 | 17°50    | 17°29  | 2°52  | 11°45  | 21°16  | 14°34 | 17°32  | 13°13  | 14°33  | 3°55  | 5°33 | 12°27 | 19°37  |
| T 25 | 8 52 2  | 14°15'31 | 3♁ 3     | 18°34  | 4° 7  | 11°33  | 21° 9  | 14°39 | 17°30  | 13°13  | 14°32  | 3°47  | 5°30 | 12°34 | 19°32  |
| W26  | 8 55 59 | 15°16'13 | 18°22    | 19°40  | 5°22  | 11°22  | 21° 2  | 14°44 | 17°27  | 13°12  | 14°30  | 3°40  | 5°26 | 12°41 | 19°28  |
| T 27 | 8 59 55 | 16°16'54 | 3♁36     | 20°49  | 6°37  | 11°12  | 20°55  | 14°48 | 17°25  | 13°11  | 14°29  | 3°35  | 5°23 | 12°48 | 19°23  |
| F 28 | 9 3 52  | 17°17'33 | 18°35    | 22° 0  | 7°51  | 11° 2  | 20°49  | 14°53 | 17°22  | 13°11  | 14°28  | 3°32  | 5°20 | 12°54 | 19°18  |
| S 29 | 9 7 48  | 18°18'11 | 3°V11    | 23°12  | 9° 6  | 10°53  | 20°42  | 14°57 | 17°19  | 13°10  | 14°26  | 3°D31 | 5°17 | 13° 1 | 19°13  |
| S 30 | 9 11 45 | 19°18'47 | 17°20    | 24°27  | 10°20 | 10°45  | 20°36  | 15° 1 | 17°17  | 13° 9  | 14°25  | 3°31  | 5°14 | 13° 8 | 19° 9  |
| M31  | 9 15 41 | 20♁19'21 | 1♁ 2     | 25♁43  | 11♁35 | 10♁38  | 20♁30  | 15♁ 5 | 17♁14  | 13♁ 8  | 14♁23  | 3♁33  | 5♁11 | 13♁14 | 19♁ 4  |

Delta T = 242.10 sec. Julian Calendar 1 Jan. 1457 == Greg. Calendar 10 Jan. 1457

FEBRUARY 1457 JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀     | ♂      | ♃      | ♄      | ♅     | ♆      | ♇      | ♁      | ♂     | ♆    | ♁     | ♂      |
|------|----------|----------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|------|-------|--------|
| T 1  | 9 19 38  | 21°19'53 | 14♁17  | 27♁ 0 | 12♁50  | 10°R32 | 20°R24 | 15♁10 | 17°R11 | 13°R 7 | 14°R22 | 3♁34  | 5♁ 7 | 13♁21 | 18°R59 |
| W 2  | 9 23 34  | 22°20'24 | 27° 9  | 28°19 | 14° 4  | 10♁26  | 20♁18  | 15°14 | 17♁ 9  | 13♁ 6  | 14♁20  | 3°R34 | 5° 4 | 13°28 | 18♁25  |
| T 3  | 9 27 31  | 23°20'52 | 9♁42   | 29°39 | 15°18  | 10°21  | 20°12  | 15°18 | 17° 6  | 13° 6  | 14°19  | 3°32  | 5° 1 | 13°34 | 18°50  |
| F 4  | 9 31 28  | 24°21'19 | 21°59  | 1♁ 1  | 16°33  | 10°17  | 20° 7  | 15°22 | 17° 4  | 13° 5  | 14°17  | 3°29  | 4°58 | 13°41 | 18°45  |
| S 5  | 9 35 24  | 25°21'44 | 4♁ 6   | 2°24  | 17°47  | 10°14  | 20° 1  | 15°25 | 17° 1  | 13° 4  | 14°16  | 3°24  | 4°55 | 13°48 | 18°40  |
| S 6  | 9 39 21  | 26°22'07 | 16° 4  | 3°48  | 19° 2  | 10°12  | 19°56  | 15°29 | 16°58  | 13° 3  | 14°15  | 3°18  | 4°51 | 13°55 | 18°36  |
| M 7  | 9 43 17  | 27°22'28 | 27°57  | 5°14  | 20°16  | 10°10  | 19°51  | 15°33 | 16°56  | 13° 2  | 14°13  | 3°11  | 4°48 | 14° 1 | 18°31  |
| T 8  | 9 47 14  | 28°22'47 | 9♁48   | 6°40  | 21°30  | 10° 9  | 19°46  | 15°36 | 16°53  | 13° 1  | 14°12  | 3° 4  | 4°45 | 14° 8 | 18°27  |
| W 9  | 9 51 10  | 29°23'05 | 21°39  | 8° 8  | 22°45  | 10°D 9 | 19°41  | 15°40 | 16°51  | 13° 0  | 14°10  | 2°58  | 4°42 | 14°15 | 18°22  |
| T 10 | 9 55 7   | 0♁23'20  | 3♁31   | 9°37  | 23°59  | 10°10  | 19°37  | 15°43 | 16°48  | 12°58  | 14° 9  | 2°53  | 4°39 | 14°21 | 18°17  |
| F 11 | 9 59 3   | 1°23'34  | 15°26  | 11° 7 | 25°13  | 10°11  | 19°32  | 15°47 | 16°46  | 12°57  | 14° 7  | 2°50  | 4°36 | 14°28 | 18°13  |
| S 12 | 10 3 0   | 2°23'46  | 27°26  | 12°38 | 26°27  | 10°13  | 19°28  | 15°50 | 16°43  | 12°56  | 14° 6  | 2°D49 | 4°32 | 14°35 | 18° 8  |
| S 13 | 10 6 57  | 3°23'56  | 9♁34   | 14°10 | 27°41  | 10°16  | 19°24  | 15°53 | 16°41  | 12°55  | 14° 5  | 2°49  | 4°29 | 14°41 | 18° 4  |
| M14  | 10 10 53 | 4°24'05  | 21°51  | 15°43 | 28°55  | 10°19  | 19°20  | 15°56 | 16°38  | 12°54  | 14° 3  | 2°50  | 4°26 | 14°48 | 17°59  |
| T 15 | 10 14 50 | 5°24'12  | 4♁21   | 17°18 | 0°V 9  | 10°23  | 19°16  | 15°59 | 16°36  | 12°53  | 14° 2  | 2°51  | 4°23 | 14°55 | 17°55  |
| W16  | 10 18 46 | 6°24'17  | 17° 7  | 18°53 | 1°23   | 10°28  | 19°13  | 16° 2 | 16°33  | 12°51  | 14° 1  | 2°53  | 4°20 | 15° 1 | 17°51  |
| T 17 | 10 22 43 | 7°24'21  | 0♁13   | 20°30 | 2°37   | 10°34  | 19° 9  | 16° 5 | 16°31  | 12°50  | 13°59  | 2°54  | 4°17 | 15° 8 | 17°46  |
| F 18 | 10 26 39 | 8°24'23  | 13°41  | 22° 7 | 3°51   | 10°40  | 19° 6  | 16° 7 | 16°28  | 12°49  | 13°58  | 2°R54 | 4°13 | 15°15 | 17°42  |
| S 19 | 10 30 36 | 9°24'24  | 27°33  | 23°46 | 5° 5   | 10°46  | 19° 3  | 16°10 | 16°26  | 12°48  | 13°57  | 2°53  | 4°10 | 15°21 | 17°38  |
| S 20 | 10 34 32 | 10°24'23 | 11♁50  | 25°26 | 6°19   | 10°54  | 19° 0  | 16°12 | 16°24  | 12°46  | 13°55  | 2°51  | 4° 7 | 15°28 | 17°34  |
| M21  | 10 38 29 | 11°24'20 | 26°28  | 27° 7 | 7°32   | 11° 2  | 18°58  | 16°15 | 16°21  | 12°45  | 13°54  | 2°49  | 4° 4 | 15°35 | 17°30  |
| T 22 | 10 42 26 | 12°24'16 | 11♁24  | 28°49 | 8°46   | 11°10  | 18°55  | 16°17 | 16°19  | 12°44  | 13°53  | 2°46  | 4° 1 | 15°42 | 17°26  |
| W23  | 10 46 22 | 13°24'10 | 26°29  | 0♁33  | 10° 0  | 11°20  | 18°53  | 16°19 | 16°17  | 12°42  | 13°52  | 2°43  | 3°57 | 15°48 | 17°22  |
| T 24 | 10 50 19 | 14°24'02 | 11♁35  | 2°17  | 11°13  | 11°29  | 18°51  | 16°21 | 16°15  | 12°41  | 13°50  | 2°41  | 3°54 | 15°55 | 17°18  |
| F 25 | 10 54 15 | 15°23'51 | 26°32  | 4° 3  | 12°27  | 11°40  | 18°49  | 16°23 | 16°12  | 12°39  | 13°49  | 2°D40 | 3°51 | 16° 2 | 17°14  |
| S 26 | 10 58 12 | 16°23'39 | 11°V12 | 5°50  | 13°41  | 11°51  | 18°48  | 16°25 | 16°10  | 12°38  | 13°48  | 2°41  | 3°48 | 16° 8 | 17°10  |
| S 27 | 11 2 8   | 17°23'25 | 25°30  | 7°38  | 14°54  | 12° 2  | 18°46  | 16°27 | 16° 8  | 12°37  | 13°47  | 2°41  | 3°45 | 16°15 | 17° 6  |
| M28  | 11 6 5   | 18♁23'08 | 9♁21   | 9♁27  | 16°V 7 | 12♁14  | 18♁45  | 16♁29 | 16♁ 6  | 12♁35  | 13♁46  | 2♁42  | 3♁42 | 16♁22 | 17♁ 3  |

Delta T = 242.00 sec. Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [13.11.2015]



SWISS EPHEMERIS for the year 1457

MAY 1457 JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♂     | ♃     | ♄     | ♅      | ♆     | ♇      | ♁     | ♂     | ♆     | ♁     | ♃     | ♄ |
|------|----------|----------|-------|--------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|---|
| S 1  | 15 10 31 | 19♌ 0'20 | 10♋54 | 11°R17 | 29♈43 | 6♋ 6  | 23♁10 | 15°R13 | 15♌24 | 11°R 0 | 13♋19 | 1°R31 | 0♌25  | 23♋16 | 16♋26 |   |
| M 2  | 15 14 28 | 19°58'05 | 22°45 | 10♌48  | 0♉51  | 6°36  | 23°19 | 15♌ 9  | 15°25 | 10♌59  | 13°20 | 1°D31 | 0°21  | 23°22 | 16°29 |   |
| T 3  | 15 18 24 | 20°55'47 | 4♎35  | 10°23  | 1°59  | 7° 6  | 23°28 | 15° 5  | 15°26 | 10°58  | 13°20 | 1♌32  | 0°18  | 23°29 | 16°31 |   |
| W 4  | 15 22 21 | 21°53'28 | 16°30 | 10° 1  | 3° 7  | 7°37  | 23°37 | 15° 2  | 15°27 | 10°57  | 13°21 | 1°33  | 0°15  | 23°36 | 16°34 |   |
| T 5  | 15 26 17 | 22°51'08 | 28°33 | 9°43   | 4°15  | 8° 7  | 23°46 | 14°58  | 15°28 | 10°55  | 13°21 | 1°R34 | 0°12  | 23°43 | 16°37 |   |
| F 6  | 15 30 14 | 23°48'45 | 10♌50 | 9°29   | 5°22  | 8°38  | 23°56 | 14°54  | 15°29 | 10°54  | 13°22 | 1°33  | 0° 9  | 23°49 | 16°41 |   |
| S 7  | 15 34 10 | 24°46'22 | 23°24 | 9°19   | 6°30  | 9° 9  | 24° 5 | 14°50  | 15°30 | 10°53  | 13°22 | 1°31  | 0° 5  | 23°56 | 16°44 |   |
| S 8  | 15 38 7  | 25°43'57 | 6♎17  | 9°13   | 7°37  | 9°40  | 24°15 | 14°46  | 15°32 | 10°52  | 13°23 | 1°27  | 0° 2  | 24° 3 | 16°47 |   |
| M 9  | 15 42 4  | 26°41'31 | 19°31 | 9°D12  | 8°44  | 10°11 | 24°24 | 14°42  | 15°33 | 10°51  | 13°24 | 1°20  | 29♎59 | 24° 9 | 16°51 |   |
| T 10 | 15 46 0  | 27°39'03 | 3♌ 4  | 9°16   | 9°51  | 10°42 | 24°34 | 14°38  | 15°34 | 10°50  | 13°24 | 1°12  | 29°56 | 24°16 | 16°54 |   |
| W11  | 15 49 57 | 28°36'35 | 16°54 | 9°23   | 10°58 | 11°13 | 24°44 | 14°34  | 15°36 | 10°49  | 13°25 | 1° 2  | 29°53 | 24°23 | 16°58 |   |
| T 12 | 15 53 53 | 29°34'05 | 0♉57  | 9°36   | 12° 4 | 11°45 | 24°54 | 14°29  | 15°37 | 10°48  | 13°26 | 0°53  | 29°50 | 24°29 | 17° 2 |   |
| F 13 | 15 57 50 | 0♈31'35  | 15° 9 | 9°53   | 13°11 | 12°16 | 25° 4 | 14°25  | 15°39 | 10°47  | 13°26 | 0°46  | 29°46 | 24°36 | 17° 5 |   |
| S 14 | 16 1 46  | 1°29'04  | 29°24 | 10°14  | 14°17 | 12°48 | 25°14 | 14°21  | 15°40 | 10°46  | 13°27 | 0°40  | 29°43 | 24°43 | 17° 9 |   |
| S 15 | 16 5 43  | 2°26'32  | 13♌40 | 10°39  | 15°23 | 13°20 | 25°24 | 14°17  | 15°42 | 10°45  | 13°28 | 0°36  | 29°40 | 24°49 | 17°13 |   |
| M16  | 16 9 39  | 3°23'59  | 27°52 | 11° 9  | 16°29 | 13°52 | 25°34 | 14°12  | 15°43 | 10°45  | 13°29 | 0°D35 | 29°37 | 24°56 | 17°18 |   |
| T 17 | 16 13 36 | 4°21'25  | 12♌ 0 | 11°43  | 17°34 | 14°24 | 25°45 | 14° 8  | 15°45 | 10°44  | 13°30 | 0°35  | 29°34 | 25° 3 | 17°22 |   |
| W18  | 16 17 33 | 5°18'51  | 26° 1 | 12°21  | 18°40 | 14°56 | 25°55 | 14° 4  | 15°47 | 10°43  | 13°30 | 0°R35 | 29°31 | 25° 9 | 17°26 |   |
| T 19 | 16 21 29 | 6°16'16  | 9♎56  | 13° 3  | 19°45 | 15°28 | 26° 6 | 13°59  | 15°49 | 10°42  | 13°31 | 0°35  | 29°27 | 25°16 | 17°30 |   |
| F 20 | 16 25 26 | 7°13'40  | 23°44 | 13°49  | 20°50 | 16° 0 | 26°16 | 13°55  | 15°50 | 10°41  | 13°32 | 0°33  | 29°24 | 25°23 | 17°35 |   |
| S 21 | 16 29 22 | 8°11'04  | 7♌23  | 14°38  | 21°55 | 16°33 | 26°27 | 13°51  | 15°52 | 10°41  | 13°33 | 0°28  | 29°21 | 25°29 | 17°40 |   |
| S 22 | 16 33 19 | 9° 8'27  | 20°52 | 15°32  | 23° 0 | 17° 5 | 26°38 | 13°46  | 15°54 | 10°40  | 13°34 | 0°21  | 29°18 | 25°36 | 17°44 |   |
| M23  | 16 37 15 | 10° 5'49 | 4♈ 8  | 16°29  | 24° 4 | 17°38 | 26°48 | 13°42  | 15°56 | 10°39  | 13°35 | 0°11  | 29°15 | 25°43 | 17°49 |   |
| T 24 | 16 41 12 | 11° 3'11 | 17°11 | 17°29  | 25° 8 | 18°11 | 26°59 | 13°37  | 15°58 | 10°39  | 13°36 | 29♎59 | 29°11 | 25°49 | 17°54 |   |
| W25  | 16 45 8  | 12° 0'32 | 29°59 | 18°33  | 26°12 | 18°44 | 27°10 | 13°33  | 16° 0 | 10°38  | 13°37 | 29°48 | 29° 8 | 25°56 | 17°59 |   |
| T 26 | 16 49 5  | 12°57'52 | 12♁32 | 19°40  | 27°16 | 19°17 | 27°21 | 13°29  | 16° 2 | 10°37  | 13°38 | 29°36 | 29° 5 | 26° 3 | 18° 4 |   |
| F 27 | 16 53 2  | 13°55'11 | 24°50 | 20°51  | 28°20 | 19°50 | 27°33 | 13°24  | 16° 5 | 10°37  | 13°39 | 29°26 | 29° 2 | 26° 9 | 18° 9 |   |
| S 28 | 16 56 58 | 14°52'30 | 6♋55  | 22° 5  | 29°23 | 20°23 | 27°44 | 13°20  | 16° 7 | 10°36  | 13°40 | 29°19 | 28°59 | 26°16 | 18°14 |   |
| S 29 | 17 0 55  | 15°49'47 | 18°50 | 23°22  | 0♋26  | 20°56 | 27°55 | 13°15  | 16° 9 | 10°36  | 13°42 | 29°13 | 28°56 | 26°23 | 18°19 |   |
| M30  | 17 4 51  | 16°47'04 | 0♎40  | 24°42  | 1°28  | 21°30 | 28° 6 | 13°11  | 16°11 | 10°35  | 13°43 | 29°10 | 28°52 | 26°29 | 18°25 |   |
| T 31 | 17 8 48  | 17°44'20 | 12♎30 | 26♌ 6  | 2♋31  | 22° 3 | 28♁18 | 13♌ 7  | 16♋14 | 10♌35  | 13♋44 | 29♎ 9 | 28♎49 | 26♋36 | 18♋30 |   |

Delta T = 241.71 sec. Julian Calendar 1 May 1457 == Greg. Calendar 10 May 1457

JUNE 1457 JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♂     | ♃     | ♄     | ♅      | ♆     | ♇      | ♁     | ♂      | ♆     | ♁     | ♃     | ♄ |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|---|
| W 1  | 17 12 44 | 18♈41'35 | 24♎23 | 27♌33 | 3♋33  | 22♋37 | 28♁29 | 13°R 2 | 16♋16 | 10°R35 | 13♋45 | 29°R 9 | 28♎46 | 26♋43 | 18♋35 |   |
| T 2  | 17 16 41 | 19°38'49 | 6♌27  | 29° 2 | 4°35  | 23°10 | 28°41 | 12♌58  | 16°18 | 10♌34  | 13°46 | 29♎ 9  | 28°43 | 26°49 | 18°41 |   |
| F 3  | 17 20 37 | 20°36'02 | 18°45 | 0♈35  | 5°36  | 23°44 | 28°53 | 12°53  | 16°21 | 10°34  | 13°47 | 29° 8  | 28°40 | 26°56 | 18°47 |   |
| S 4  | 17 24 34 | 21°33'15 | 1♎24  | 2°11  | 6°38  | 24°18 | 29° 4 | 12°49  | 16°23 | 10°34  | 13°49 | 29° 5  | 28°37 | 27° 3 | 18°52 |   |
| S 5  | 17 28 31 | 22°30'27 | 14°26 | 3°50  | 7°38  | 24°52 | 29°16 | 12°45  | 16°26 | 10°33  | 13°50 | 28°59  | 28°33 | 27° 9 | 18°58 |   |
| M 6  | 17 32 27 | 23°27'39 | 27°52 | 5°32  | 8°39  | 25°26 | 29°28 | 12°40  | 16°28 | 10°33  | 13°51 | 28°51  | 28°30 | 27°16 | 19° 4 |   |
| T 7  | 17 36 24 | 24°24'50 | 11♌43 | 7°17  | 9°39  | 26° 0 | 29°40 | 12°36  | 16°31 | 10°33  | 13°53 | 28°41  | 28°27 | 27°23 | 19°10 |   |
| W 8  | 17 40 20 | 25°22'01 | 25°56 | 9° 4  | 10°39 | 26°34 | 29°52 | 12°32  | 16°34 | 10°33  | 13°54 | 28°29  | 28°24 | 27°29 | 19°16 |   |
| T 9  | 17 44 17 | 26°19'12 | 10♉24 | 10°55 | 11°38 | 27° 8 | 0♋ 3  | 12°28  | 16°36 | 10°33  | 13°55 | 28°18  | 28°21 | 27°36 | 19°22 |   |
| F 10 | 17 48 13 | 27°16'23 | 25° 2 | 12°48 | 12°38 | 27°43 | 0°16  | 12°23  | 16°39 | 10°33  | 13°57 | 28° 8  | 28°17 | 27°43 | 19°28 |   |
| S 11 | 17 52 10 | 28°13'33 | 9♌41  | 14°44 | 13°36 | 28°17 | 0°28  | 12°19  | 16°42 | 10°32  | 13°58 | 28° 1  | 28°14 | 27°49 | 19°34 |   |
| S 12 | 17 56 6  | 29°10'43 | 24°16 | 16°42 | 14°34 | 28°52 | 0°40  | 12°15  | 16°45 | 10°32  | 13°59 | 27°56  | 28°11 | 27°56 | 19°40 |   |
| M13  | 18 0 3   | 0♉ 7'54  | 8♌40  | 18°43 | 15°32 | 29°26 | 0°52  | 12°11  | 16°47 | 10°D32 | 14° 1 | 27°53  | 28° 8 | 28° 3 | 19°47 |   |
| T 14 | 18 4 0   | 1° 5'04  | 22°53 | 20°45 | 16°30 | 0♎ 1  | 1° 4  | 12° 7  | 16°50 | 10°32  | 14° 2 | 27°52  | 28° 5 | 28° 9 | 19°53 |   |
| W15  | 18 7 56  | 2° 2'15  | 6♎51  | 22°50 | 17°27 | 0°36  | 1°16  | 12° 3  | 16°53 | 10°32  | 14° 4 | 27°52  | 28° 2 | 28°16 | 20° 0 |   |
| T 16 | 18 11 53 | 2°59'26  | 20°35 | 24°56 | 18°23 | 1°11  | 1°29  | 11°59  | 16°56 | 10°33  | 14° 5 | 27°52  | 27°58 | 28°23 | 20° 6 |   |
| F 17 | 18 15 49 | 3°56'37  | 4♌ 6  | 27° 3 | 19°20 | 1°46  | 1°41  | 11°55  | 16°59 | 10°33  | 14° 7 | 27°49  | 27°55 | 28°29 | 20°13 |   |
| S 18 | 18 19 46 | 4°53'49  | 17°25 | 29°12 | 20°15 | 2°21  | 1°53  | 11°51  | 17° 2 | 10°33  | 14° 8 | 27°44  | 27°52 | 28°36 | 20°19 |   |
| S 19 | 18 23 42 | 5°51'01  | 0♈32  | 1♁21  | 21°10 | 2°56  | 2° 6  | 11°47  | 17° 5 | 10°33  | 14°10 | 27°36  | 27°49 | 28°43 | 20°26 |   |
| M20  | 18 27 39 | 6°48'13  | 13°28 | 3°31  | 22° 5 | 3°31  | 2°18  | 11°43  | 17° 8 | 10°33  | 14°11 | 27°26  | 27°46 | 28°49 | 20°33 |   |
| T 21 | 18 31 35 | 7°45'26  | 26°11 | 5°41  | 22°59 | 4° 6  | 2°31  | 11°40  | 17°11 | 10°33  | 14°13 | 27°14  | 27°43 | 28°56 | 20°40 |   |
| W22  | 18 35 32 | 8°42'38  | 8♁43  | 7°51  | 23°53 | 4°41  | 2°43  | 11°36  | 17°14 | 10°34  | 14°15 | 27° 1  | 27°39 | 29° 3 | 20°46 |   |
| T 23 | 18 39 29 | 9°39'51  | 21° 3 | 10° 1 | 24°46 | 5°17  | 2°56  | 11°32  | 17°17 | 10°34  | 14°16 | 26°48  | 27°36 | 29° 9 | 20°53 |   |
| F 24 | 18 43 25 | 10°37'04 | 3♋12  | 12°10 | 25°38 | 5°52  | 3° 9  | 11°29  | 17°20 | 10°34  | 14°18 | 26°37  | 27°33 | 29°16 | 21° 0 |   |
| S 25 | 18 47 22 | 11°34'17 | 15°11 | 14°18 | 26°30 | 6°28  | 3°21  | 11°25  | 17°24 | 10°35  | 14°19 | 26°29  | 27°30 | 29°23 | 21° 7 |   |
| S 26 | 18 51 18 | 12°31'30 | 27° 3 | 16°25 | 27°21 | 7° 4  | 3°34  | 11°22  | 17°27 | 10°35  | 14°21 | 26°23  | 27°27 | 29°29 | 21°14 |   |
| M27  | 18 55 15 | 13°28'43 | 8♎50  | 18°31 | 28°11 | 7°39  | 3°47  | 11°18  | 17°30 | 10°36  | 14°23 | 26°19  | 27°23 | 29°36 | 21°22 |   |
| T 28 | 18 59 11 | 14°25'57 | 20°38 | 20°36 | 29° 1 | 8°15  | 4° 0  | 11°15  | 17°33 | 10°36  | 14°24 | 26°18  | 27°20 | 29°43 | 21°29 |   |
| W29  | 19 3 8   | 15°23'10 | 2♌30  | 22°39 | 29°50 | 8°51  | 4°12  | 11°12  | 17°37 | 10°37  | 14°26 | 26°D18 | 27°17 | 29°49 | 21°36 |   |
| T 30 | 19 7 4   | 16♁20'24 | 14♌32 | 24♁41 | 0♎39  | 9♎27  | 4♋25  | 11♌ 9  | 17♋40 | 10♌37  | 14♋28 | 26°R18 | 27♎14 | 29♋56 | 21♋43 |   |

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SWISS EPHEMERIS for the year 1457

JULY 1457 JC

00:00 UT

Table with columns: Day, Sid.t, and 14 zodiac symbols (♈, ♉, ♊, ♋, ♌, ♍, ♎, ♏, ♐, ♑, ♒, ♓, ♈, ♉). Rows represent days from July 1st to July 31st.

Delta T = 241.51 sec. Julian Calendar 1 July 1457 == Greg. Calendar 10 July 1457

AUGUST 1457 JC

00:00 UT

Table with columns: Day, Sid.t, and 14 zodiac symbols (♈, ♉, ♊, ♋, ♌, ♍, ♎, ♏, ♐, ♑, ♒, ♓, ♈, ♉). Rows represent days from August 1st to August 31st.

Delta T = 241.41 sec. Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]



SWISS EPHEMERIS for the year 1457

NOVEMBER 1457 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄     | ♅     | ♆     | ♇      | ♈      | ♉     | ♊      | ♋     | ♌ | ♍ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|---|---|
| T 1  | 3 15 57 | 17♏36'26 | 7♄22  | 27♏57 | 0♌55  | 2♌23  | 28♏1  | 15♌32 | 23♏58 | 14♌17 | 17♏27  | 22°R18 | 20♏40 | 13♏41  | 7♏9   |   |   |
| W 2  | 3 19 54 | 18°36'59 | 21°40 | 29°29 | 1°56  | 3°7   | 28°7  | 15°38 | 23°59 | 14°19 | 17°28  | 22°R9  | 20°37 | 13°47  | 7°14  |   |   |
| T 3  | 3 23 50 | 19°37'33 | 5♏43  | 1♌1   | 2°56  | 3°51  | 28°13 | 15°45 | 24°0  | 14°21 | 17°28  | 22°0   | 20°34 | 13°54  | 7°18  |   |   |
| F 4  | 3 27 47 | 20°38'10 | 19°24 | 2°32  | 3°57  | 4°35  | 28°19 | 15°51 | 24°1  | 14°23 | 17°28  | 21°49  | 20°30 | 14°1   | 7°23  |   |   |
| S 5  | 3 31 43 | 21°38'48 | 2♄43  | 4°3   | 4°59  | 5°19  | 28°25 | 15°58 | 24°2  | 14°25 | 17°28  | 21°40  | 20°27 | 14°7   | 7°27  |   |   |
| S 6  | 3 35 40 | 22°39'27 | 15°38 | 5°33  | 6°1   | 6°3   | 28°31 | 16°5  | 24°3  | 14°27 | 17°28  | 21°32  | 20°24 | 14°14  | 7°32  |   |   |
| M 7  | 3 39 36 | 23°40'08 | 28°10 | 7°4   | 7°3   | 6°48  | 28°36 | 16°11 | 24°4  | 14°29 | 17°29  | 21°26  | 20°21 | 14°21  | 7°36  |   |   |
| T 8  | 3 43 33 | 24°40'51 | 10♏24 | 8°34  | 8°6   | 7°32  | 28°41 | 16°18 | 24°4  | 14°31 | 17°29  | 21°23  | 20°18 | 14°27  | 7°40  |   |   |
| W 9  | 3 47 30 | 25°41'35 | 22°24 | 10°4  | 9°9   | 8°16  | 28°47 | 16°25 | 24°5  | 14°32 | 17°29  | 21°D22 | 20°14 | 14°34  | 7°44  |   |   |
| T 10 | 3 51 26 | 26°42'21 | 4♏14  | 11°33 | 10°12 | 9°1   | 28°52 | 16°31 | 24°6  | 14°34 | 17°R29 | 21°22  | 20°11 | 14°41  | 7°48  |   |   |
| F 11 | 3 55 23 | 27°43'09 | 16°1  | 13°3  | 11°16 | 9°46  | 28°56 | 16°38 | 24°6  | 14°36 | 17°29  | 21°R22 | 20°8  | 14°47  | 7°52  |   |   |
| S 12 | 3 59 19 | 28°43'58 | 27°51 | 14°31 | 12°20 | 10°30 | 29°1  | 16°45 | 24°7  | 14°38 | 17°29  | 21°22  | 20°5  | 14°54  | 7°55  |   |   |
| S 13 | 4 3 16  | 29°44'48 | 9♌47  | 16°0  | 13°24 | 11°15 | 29°6  | 16°52 | 24°7  | 14°39 | 17°29  | 21°21  | 20°2  | 15°0   | 7°59  |   |   |
| M14  | 4 7 12  | 0♌45'40  | 21°55 | 17°27 | 14°29 | 12°0  | 29°10 | 16°59 | 24°8  | 14°41 | 17°28  | 21°16  | 19°59 | 15°7   | 8°3   |   |   |
| T 15 | 4 11 9  | 1°46'33  | 4♏17  | 18°54 | 15°34 | 12°44 | 29°14 | 17°6  | 24°8  | 14°43 | 17°28  | 21°9   | 19°55 | 15°14  | 8°6   |   |   |
| W16  | 4 15 5  | 2°47'27  | 16°57 | 20°21 | 16°39 | 13°29 | 29°18 | 17°12 | 24°8  | 14°44 | 17°28  | 21°0   | 19°52 | 15°20  | 8°9   |   |   |
| T 17 | 4 19 2  | 3°48'23  | 29°54 | 21°46 | 17°45 | 14°14 | 29°22 | 17°19 | 24°9  | 14°46 | 17°28  | 20°48  | 19°49 | 15°27  | 8°13  |   |   |
| F 18 | 4 22 59 | 4°49'20  | 13♌8  | 23°10 | 18°51 | 14°59 | 29°26 | 17°26 | 24°9  | 14°48 | 17°28  | 20°35  | 19°46 | 15°34  | 8°16  |   |   |
| S 19 | 4 26 55 | 5°50'18  | 26°37 | 24°34 | 19°57 | 15°44 | 29°29 | 17°33 | 24°9  | 14°49 | 17°27  | 20°22  | 19°43 | 15°40  | 8°19  |   |   |
| S 20 | 4 30 52 | 6°51'17  | 10♄17 | 25°56 | 21°3  | 16°29 | 29°32 | 17°40 | 24°9  | 14°51 | 17°27  | 20°11  | 19°39 | 15°47  | 8°22  |   |   |
| M21  | 4 34 48 | 7°52'16  | 24°7  | 27°16 | 22°10 | 17°14 | 29°35 | 17°47 | 24°R9 | 14°52 | 17°27  | 20°2   | 19°36 | 15°54  | 8°24  |   |   |
| T 22 | 4 38 45 | 8°53'17  | 8♌3   | 28°35 | 23°17 | 17°59 | 29°38 | 17°54 | 24°9  | 14°54 | 17°27  | 19°57  | 19°33 | 16°0   | 8°27  |   |   |
| W23  | 4 42 41 | 9°54'17  | 22°3  | 29°51 | 24°24 | 18°44 | 29°41 | 18°1  | 24°9  | 14°55 | 17°26  | 19°53  | 19°30 | 16°7   | 8°30  |   |   |
| T 24 | 4 46 38 | 10°55'19 | 6♏5   | 1♄5   | 25°31 | 19°30 | 29°44 | 18°8  | 24°9  | 14°57 | 17°26  | 19°53  | 19°27 | 16°14  | 8°32  |   |   |
| F 25 | 4 50 34 | 11°56'21 | 20°10 | 2°16  | 26°38 | 20°15 | 29°46 | 18°15 | 24°8  | 14°58 | 17°25  | 19°52  | 19°24 | 16°20  | 8°34  |   |   |
| S 26 | 4 54 31 | 12°57'23 | 4♏16  | 3°24  | 27°46 | 21°0  | 29°48 | 18°22 | 24°8  | 15°0  | 17°25  | 19°52  | 19°20 | 16°27  | 8°37  |   |   |
| S 27 | 4 58 28 | 13°58'26 | 18°22 | 4°28  | 28°54 | 21°46 | 29°50 | 18°29 | 24°8  | 15°1  | 17°24  | 19°50  | 19°17 | 16°33  | 8°39  |   |   |
| M28  | 5 2 24  | 14°59'29 | 2♄27  | 5°27  | 0♏2   | 22°31 | 29°52 | 18°36 | 24°7  | 15°2  | 17°24  | 19°45  | 19°14 | 16°40  | 8°41  |   |   |
| T 29 | 5 6 21  | 16°0'33  | 16°28 | 6°22  | 1°10  | 23°17 | 29°54 | 18°43 | 24°7  | 15°4  | 17°23  | 19°37  | 19°11 | 16°47  | 8°42  |   |   |
| W30  | 5 10 17 | 17°0'38  | 0♏21  | 7♄10  | 2♏19  | 24°2  | 29♏55 | 18°50 | 24♏6  | 15♌5  | 17♏23  | 19°R26 | 19°R8 | 16°R53 | 8°R44 |   |   |

Delta T = 241.11 sec. Julian Calendar 1 Nov. 1457 == Greg. Calendar 10 Nov. 1457

DECEMBER 1457 JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃      | ♄     | ♅     | ♆     | ♇      | ♈      | ♉      | ♊      | ♋     | ♌ | ♍ |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|--------|--------|-------|---|---|
| T 1  | 5 14 14 | 18♌2'43  | 14♏3  | 7♄52  | 3♏27  | 24♌48 | 29♏56  | 18♌57 | 24°R6 | 15♌6  | 17°R22 | 19°R13 | 19°R5  | 17°R0  | 8°R46 |   |   |
| F 2  | 5 18 10 | 19°3'48  | 27°29 | 8°26  | 4°36  | 25°33 | 29°57  | 19°4  | 24°R5 | 15°7  | 17°R22 | 19°R0  | 19°1   | 17°7   | 8°47  |   |   |
| S 3  | 5 22 7  | 20°4'54  | 10♄37 | 8°53  | 5°45  | 26°19 | 29°58  | 19°11 | 24°5  | 15°9  | 17°21  | 18°47  | 18°58  | 17°13  | 8°49  |   |   |
| S 4  | 5 26 3  | 21°6'01  | 23°26 | 9°9   | 6°55  | 27°5  | 29°59  | 19°19 | 24°4  | 15°10 | 17°20  | 18°36  | 18°55  | 17°20  | 8°50  |   |   |
| M 5  | 5 30 0  | 22°7'08  | 5♏56  | 9°R16 | 8°4   | 27°50 | 29°59  | 19°26 | 24°3  | 15°11 | 17°20  | 18°27  | 18°52  | 17°27  | 8°51  |   |   |
| T 6  | 5 33 57 | 23°8'16  | 18°9  | 9°12  | 9°13  | 28°36 | 29°59  | 19°33 | 24°2  | 15°12 | 17°19  | 18°21  | 18°49  | 17°33  | 8°52  |   |   |
| W 7  | 5 37 53 | 24°9'25  | 0♏9   | 8°56  | 10°23 | 29°22 | 29°R59 | 19°40 | 24°1  | 15°13 | 17°18  | 18°18  | 18°45  | 17°40  | 8°53  |   |   |
| T 8  | 5 41 50 | 25°10'34 | 12°0  | 8°29  | 11°33 | 0♄8   | 29°59  | 19°47 | 24°1  | 15°14 | 17°17  | 18°17  | 18°42  | 17°47  | 8°54  |   |   |
| F 9  | 5 45 46 | 26°11'44 | 23°47 | 7°50  | 12°43 | 0°54  | 29°59  | 19°54 | 24°0  | 15°15 | 17°17  | 18°17  | 18°39  | 17°53  | 8°55  |   |   |
| S 10 | 5 49 43 | 27°12'54 | 5♌36  | 6°59  | 13°53 | 1°40  | 29°59  | 20°1  | 23°59 | 15°16 | 17°16  | 18°17  | 18°36  | 18°0   | 8°55  |   |   |
| S 11 | 5 53 39 | 28°14'05 | 17°33 | 5°59  | 15°3  | 2°26  | 29°58  | 20°8  | 23°57 | 15°17 | 17°15  | 18°15  | 18°33  | 18°7   | 8°56  |   |   |
| M12  | 5 57 36 | 29°15'16 | 29°43 | 4°50  | 16°13 | 3°12  | 29°57  | 20°15 | 23°56 | 15°18 | 17°14  | 18°12  | 18°30  | 18°13  | 8°56  |   |   |
| T 13 | 6 1 32  | 0♄16'27  | 12♏10 | 3°34  | 17°24 | 3°58  | 29°56  | 20°22 | 23°55 | 15°19 | 17°13  | 18°5   | 18°26  | 18°20  | 8°56  |   |   |
| W14  | 6 5 29  | 1°17'39  | 24°58 | 2°14  | 18°35 | 4°44  | 29°55  | 20°29 | 23°54 | 15°20 | 17°12  | 17°56  | 18°23  | 18°26  | 8°R57 |   |   |
| T 15 | 6 9 26  | 2°18'52  | 8♌9   | 0°52  | 19°45 | 5°30  | 29°53  | 20°36 | 23°53 | 15°20 | 17°11  | 17°45  | 18°20  | 18°33  | 8°56  |   |   |
| F 16 | 6 13 22 | 3°20'04  | 21°41 | 29♌31 | 20°56 | 6°16  | 29°51  | 20°43 | 23°51 | 15°21 | 17°10  | 17°33  | 18°17  | 18°40  | 8°56  |   |   |
| S 17 | 6 17 19 | 4°21'17  | 5♄33  | 28°15 | 22°7  | 7°3   | 29°50  | 20°50 | 23°50 | 15°22 | 17°9   | 17°20  | 18°14  | 18°46  | 8°56  |   |   |
| S 18 | 6 21 15 | 5°22'30  | 19°40 | 27°4  | 23°18 | 7°49  | 29°48  | 20°56 | 23°48 | 15°23 | 17°8   | 17°9   | 18°11  | 18°53  | 8°56  |   |   |
| M19  | 6 25 12 | 6°23'42  | 3♌58  | 26°0  | 24°29 | 8°35  | 29°45  | 21°3  | 23°47 | 15°23 | 17°7   | 17°0   | 18°7   | 19°0   | 8°55  |   |   |
| T 20 | 6 29 8  | 7°24'54  | 18°20 | 25°6  | 25°40 | 9°22  | 29°43  | 21°10 | 23°45 | 15°24 | 17°6   | 16°54  | 18°4   | 19°6   | 8°55  |   |   |
| W21  | 6 33 5  | 8°26'06  | 2♏41  | 24°21 | 26°52 | 10°8  | 29°40  | 21°17 | 23°44 | 15°25 | 17°5   | 16°51  | 18°1   | 19°13  | 8°54  |   |   |
| T 22 | 6 37 1  | 9°27'17  | 16°58 | 23°46 | 28°3  | 10°54 | 29°37  | 21°24 | 23°42 | 15°25 | 17°4   | 16°D51 | 17°58  | 19°20  | 8°53  |   |   |
| F 23 | 6 40 58 | 10°28'28 | 1°R8  | 23°22 | 29°15 | 11°41 | 29°34  | 21°31 | 23°41 | 15°26 | 17°3   | 16°51  | 17°55  | 19°26  | 8°52  |   |   |
| S 24 | 6 44 55 | 11°29'38 | 15°11 | 23°7  | 0♌26  | 12°27 | 29°31  | 21°37 | 23°39 | 15°26 | 17°2   | 16°R51 | 17°51  | 19°33  | 8°51  |   |   |
| S 25 | 6 48 51 | 12°30'48 | 29°5  | 23°D1 | 1°38  | 13°14 | 29°28  | 21°44 | 23°37 | 15°27 | 17°1   | 16°50  | 17°48  | 19°40  | 8°50  |   |   |
| M26  | 6 52 48 | 13°31'56 | 12♄50 | 23°4  | 2°49  | 14°1  | 29°24  | 21°51 | 23°35 | 15°27 | 17°0   | 16°46  | 17°45  | 19°46  | 8°49  |   |   |
| T 27 | 6 56 44 | 14°33'05 | 26°27 | 23°15 | 4°1   | 14°47 | 29°20  | 21°58 | 23°34 | 15°28 | 16°58  | 16°40  | 17°42  | 19°53  | 8°47  |   |   |
| W28  | 7 0 41  | 15°34'13 | 9♏54  | 23°34 | 5°13  | 15°34 | 29°16  | 22°4  | 23°32 | 15°28 | 16°57  | 16°31  | 17°39  | 19°59  | 8°46  |   |   |
| T 29 | 7 4 37  | 16°35'20 | 23°9  | 24°0  | 6°25  | 16°20 | 29°12  | 22°11 | 23°30 | 15°28 | 16°56  | 16°21  | 17°36  | 20°6   | 8°44  |   |   |
| F 30 | 7 8 34  | 17°36'26 | 6♄12  | 24°31 | 7°37  | 17°7  | 29°8   | 22°18 | 23°28 | 15°29 | 16°55  | 16°10  | 17°32  | 20°13  | 8°42  |   |   |
| S 31 | 7 12 30 | 18°37'32 | 19♄2  | 25♌9  | 8♌49  | 17♄54 | 29♏4   | 22♌24 | 23♏26 | 15♌29 | 16♏54  | 15°R59 | 17°R29 | 20°R19 | 8°R41 |   |   |

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