

SWISS EPHEMERIS for the year 2410

JANUARY 2410

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♁      | ♂     | ♄     | ♃     | ♅      | ♁     | ♆     | ♁     | ♁      | ♁     | ♁      | ♁     |
|------|---------|----------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| F 1  | 6 42 39 | 10♁21'29 | 7♁11  | 26♁13  | 7♁28  | 26♁24 | 5♁15  | 14♁30  | 11♁26 | 8°R 3 | 6°R54 | 24°R37 | 25♁16 | 25♁48  | 2♁24  |
| S 2  | 6 46 36 | 11°22'37 | 21°33 | 27°43  | 8°42  | 27°11 | 5°27  | 14°32  | 11°30 | 8♁ 1  | 6♁53  | 24♁35  | 25°13 | 25°55  | 2°25  |
| S 3  | 6 50 32 | 12°23'45 | 5♁54  | 29°13  | 9°57  | 27°58 | 5°39  | 14°34  | 11°34 | 8° 0  | 6°52  | 24°34  | 25°10 | 26° 1  | 2°26  |
| M 4  | 6 54 29 | 13°24'54 | 20° 9 | 0♁41   | 11°11 | 28°44 | 5°51  | 14°35  | 11°37 | 7°58  | 6°51  | 24°32  | 25° 7 | 26° 8  | 2°28  |
| T 5  | 6 58 25 | 14°26'03 | 4♁13  | 2° 7   | 12°26 | 29°31 | 6° 2  | 14°37  | 11°41 | 7°57  | 6°50  | 24°31  | 25° 4 | 26°15  | 2°29  |
| W 6  | 7 2 22  | 15°27'13 | 18° 4 | 3°31   | 13°40 | 0♁18  | 6°14  | 14°39  | 11°44 | 7°55  | 6°48  | 24°D31 | 25° 1 | 26°22  | 2°30  |
| T 7  | 7 6 19  | 16°28'22 | 1♁36  | 4°53   | 14°55 | 1° 5  | 6°26  | 14°42  | 11°48 | 7°54  | 6°47  | 24°31  | 24°57 | 26°28  | 2°32  |
| F 8  | 7 10 15 | 17°29'32 | 14°48 | 6°12   | 16° 9 | 1°52  | 6°37  | 14°44  | 11°52 | 7°52  | 6°46  | 24°31  | 24°54 | 26°35  | 2°33  |
| S 9  | 7 14 12 | 18°30'41 | 27°41 | 7°29   | 17°24 | 2°38  | 6°49  | 14°46  | 11°55 | 7°51  | 6°45  | 24°32  | 24°51 | 26°42  | 2°35  |
| S 10 | 7 18 8  | 19°31'51 | 10♁15 | 8°41   | 18°38 | 3°25  | 7° 0  | 14°49  | 11°59 | 7°49  | 6°44  | 24°32  | 24°48 | 26°49  | 2°36  |
| M 11 | 7 22 5  | 20°33'00 | 22°33 | 9°49   | 19°52 | 4°12  | 7°12  | 14°51  | 12° 2 | 7°47  | 6°43  | 24°33  | 24°45 | 26°55  | 2°38  |
| T 12 | 7 26 1  | 21°34'08 | 4♁38  | 10°51  | 21° 6 | 4°59  | 7°23  | 14°54  | 12° 6 | 7°46  | 6°41  | 24°33  | 24°42 | 27° 2  | 2°39  |
| W 13 | 7 29 58 | 22°35'17 | 16°35 | 11°48  | 22°21 | 5°46  | 7°34  | 14°57  | 12°10 | 7°44  | 6°40  | 24°33  | 24°38 | 27° 9  | 2°41  |
| T 14 | 7 33 54 | 23°36'25 | 28°27 | 12°38  | 23°35 | 6°32  | 7°45  | 15° 0  | 12°13 | 7°43  | 6°39  | 24°R33 | 24°35 | 27°15  | 2°43  |
| F 15 | 7 37 51 | 24°37'33 | 10♁21 | 13°20  | 24°49 | 7°19  | 7°56  | 15° 3  | 12°17 | 7°41  | 6°38  | 24°D33 | 24°32 | 27°22  | 2°45  |
| S 16 | 7 41 48 | 25°38'40 | 22°20 | 13°54  | 26° 3 | 8° 6  | 8° 7  | 15° 6  | 12°20 | 7°39  | 6°37  | 24°33  | 24°29 | 27°29  | 2°47  |
| S 17 | 7 45 44 | 26°39'47 | 4♁28  | 14°18  | 27°17 | 8°53  | 8°18  | 15° 9  | 12°24 | 7°38  | 6°36  | 24°33  | 24°26 | 27°36  | 2°48  |
| M 18 | 7 49 41 | 27°40'53 | 16°51 | 14°32  | 28°31 | 9°40  | 8°29  | 15°12  | 12°27 | 7°36  | 6°35  | 24°34  | 24°22 | 27°42  | 2°50  |
| T 19 | 7 53 37 | 28°41'59 | 29°29 | 14°R35 | 29°45 | 10°26 | 8°40  | 15°16  | 12°31 | 7°34  | 6°33  | 24°34  | 24°19 | 27°49  | 2°52  |
| W 20 | 7 57 34 | 29°43'05 | 12♁25 | 14°26  | 0♁59  | 11°13 | 8°50  | 15°19  | 12°34 | 7°33  | 6°32  | 24°35  | 24°16 | 27°56  | 2°55  |
| T 21 | 8 1 30  | 0♁44'10  | 25°40 | 14° 6  | 2°13  | 12° 0 | 9° 1  | 15°23  | 12°38 | 7°31  | 6°31  | 24°R35 | 24°13 | 28° 2  | 2°57  |
| F 22 | 8 5 27  | 1°45'15  | 9♁13  | 13°34  | 3°27  | 12°46 | 9°11  | 15°27  | 12°41 | 7°29  | 6°30  | 24°34  | 24°10 | 28° 9  | 2°59  |
| S 23 | 8 9 23  | 2°46'19  | 23° 1 | 12°50  | 4°41  | 13°33 | 9°21  | 15°30  | 12°45 | 7°28  | 6°29  | 24°34  | 24° 7 | 28°16  | 3° 1  |
| S 24 | 8 13 20 | 3°47'23  | 7♁ 2  | 11°57  | 5°55  | 14°20 | 9°32  | 15°34  | 12°48 | 7°26  | 6°28  | 24°33  | 24° 3 | 28°23  | 3° 3  |
| M 25 | 8 17 17 | 4°48'26  | 21°12 | 10°54  | 7° 9  | 15° 7 | 9°42  | 15°38  | 12°52 | 7°24  | 6°27  | 24°32  | 24° 0 | 28°29  | 3° 6  |
| T 26 | 8 21 13 | 5°49'29  | 5♁26  | 9°45   | 8°23  | 15°53 | 9°52  | 15°42  | 12°55 | 7°23  | 6°26  | 24°30  | 23°57 | 28°36  | 3° 8  |
| W 27 | 8 25 10 | 6°50'32  | 19°42 | 8°30   | 9°36  | 16°40 | 10° 2 | 15°46  | 12°58 | 7°21  | 6°25  | 24°29  | 23°54 | 28°43  | 3°10  |
| T 28 | 8 29 6  | 7°51'34  | 3♁56  | 7°13   | 10°50 | 17°27 | 10°12 | 15°51  | 13° 2 | 7°19  | 6°24  | 24°D29 | 23°51 | 28°50  | 3°13  |
| F 29 | 8 33 3  | 8°52'36  | 18° 5 | 5°56   | 12° 3 | 18°13 | 10°21 | 15°55  | 13° 5 | 7°18  | 6°23  | 24°29  | 23°48 | 28°56  | 3°15  |
| S 30 | 8 36 59 | 9°53'38  | 2♁ 8  | 4°41   | 13°17 | 19° 0 | 10°31 | 15°59  | 13° 9 | 7°16  | 6°22  | 24°30  | 23°44 | 29° 3  | 3°18  |
| S 31 | 8 40 56 | 10°54'40 | 16♁ 3 | 3♁30   | 14♁31 | 19♁46 | 10♁41 | 16°V 4 | 13♁12 | 7♁14  | 6♁21  | 24♁31  | 23♁41 | 29°V10 | 3°V20 |

Delta T = 17m39s

FEBRUARY 2410

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♁      | ♂      | ♄      | ♃     | ♅      | ♁     | ♆     | ♁     | ♁      | ♁     | ♁      | ♁     |
|------|----------|----------|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| M 1  | 8 44 52  | 11°55'41 | 29♁49 | 2°R24  | 15♁44  | 20♁33  | 10♁50 | 16°V 8 | 13♁15 | 7°R12 | 6°R20 | 24♁32  | 23♁38 | 29°V16 | 3°V23 |
| T 2  | 8 48 49  | 12°56'41 | 13♁24 | 1♁26   | 16°57  | 21°19  | 10°59 | 16°13  | 13°18 | 7♁11  | 6♁19  | 24°33  | 23°35 | 29°23  | 3°26  |
| W 3  | 8 52 46  | 13°57'41 | 26°48 | 0°36   | 18°11  | 22° 6  | 11° 9 | 16°18  | 13°22 | 7° 9  | 6°18  | 24°R33 | 23°32 | 29°30  | 3°28  |
| T 4  | 8 56 42  | 14°58'40 | 9♁59  | 29♁54  | 19°24  | 22°53  | 11°18 | 16°22  | 13°25 | 7° 7  | 6°17  | 24°33  | 23°28 | 29°37  | 3°31  |
| F 5  | 9 0 39   | 15°59'38 | 22°56 | 29°21  | 20°37  | 23°39  | 11°27 | 16°27  | 13°28 | 7° 6  | 6°16  | 24°31  | 23°25 | 29°43  | 3°34  |
| S 6  | 9 4 35   | 17° 0'35 | 5♁38  | 28°58  | 21°50  | 24°26  | 11°35 | 16°32  | 13°31 | 7° 4  | 6°16  | 24°28  | 23°22 | 29°50  | 3°37  |
| S 7  | 9 8 32   | 18° 1'31 | 18° 7 | 28°42  | 23° 4  | 25°12  | 11°44 | 16°37  | 13°34 | 7° 2  | 6°15  | 24°24  | 23°19 | 29°57  | 3°39  |
| M 8  | 9 12 28  | 19° 2'26 | 0°V22 | 28°D35 | 24°17  | 25°58  | 11°53 | 16°42  | 13°37 | 7° 1  | 6°14  | 24°20  | 23°16 | 0♁ 3   | 3°42  |
| T 9  | 9 16 25  | 20° 3'19 | 12°27 | 28°36  | 25°30  | 26°45  | 12° 1 | 16°48  | 13°41 | 6°59  | 6°13  | 24°16  | 23°13 | 0°10   | 3°45  |
| W 10 | 9 20 21  | 21° 4'11 | 24°24 | 28°44  | 26°42  | 27°31  | 12°10 | 16°53  | 13°44 | 6°57  | 6°12  | 24°12  | 23° 9 | 0°17   | 3°48  |
| T 11 | 9 24 18  | 22° 5'02 | 6♁16  | 28°59  | 27°55  | 28°18  | 12°18 | 16°58  | 13°47 | 6°56  | 6°11  | 24° 9  | 23° 6 | 0°24   | 3°51  |
| F 12 | 9 28 15  | 23° 5'52 | 18° 8 | 29°21  | 29° 8  | 29° 4  | 12°26 | 17° 4  | 13°50 | 6°54  | 6°11  | 24°D 8 | 23° 3 | 0°30   | 3°54  |
| S 13 | 9 32 11  | 24° 6'40 | 0♁11  | 29°48  | 0°V21  | 29°50  | 12°34 | 17° 9  | 13°53 | 6°53  | 6°10  | 24° 8  | 23° 0 | 0°37   | 3°57  |
| S 14 | 9 36 8   | 25° 7'27 | 12°12 | 0♁20   | 1°33   | 0°V36  | 12°42 | 17°15  | 13°56 | 6°51  | 6° 9  | 24° 9  | 22°57 | 0°44   | 4° 0  |
| M 15 | 9 40 4   | 26° 8'12 | 24°33 | 0°58   | 2°46   | 1°23   | 12°49 | 17°20  | 13°59 | 6°49  | 6° 8  | 24°11  | 22°54 | 0°51   | 4° 3  |
| T 16 | 9 44 1   | 27° 8'56 | 7♁12  | 1°40   | 3°58   | 2° 9   | 12°57 | 17°26  | 14° 1 | 6°48  | 6° 8  | 24°13  | 22°50 | 0°57   | 4° 7  |
| W 17 | 9 47 57  | 28° 9'39 | 20°14 | 2°25   | 5°11   | 2°55   | 13° 4 | 17°32  | 14° 4 | 6°46  | 6° 7  | 24°R14 | 22°47 | 1° 4   | 4°10  |
| T 18 | 9 51 54  | 29°10'19 | 3♁40  | 3°15   | 6°23   | 3°41   | 13°12 | 17°37  | 14° 7 | 6°45  | 6° 6  | 24°13  | 22°44 | 1°11   | 4°13  |
| F 19 | 9 55 50  | 0♁10'59  | 17°31 | 4° 8   | 7°35   | 4°27   | 13°19 | 17°43  | 14°10 | 6°43  | 6° 6  | 24°11  | 22°41 | 1°17   | 4°16  |
| S 20 | 9 59 47  | 1°11'37  | 1♁43  | 5° 4   | 8°47   | 5°13   | 13°26 | 17°49  | 14°13 | 6°42  | 6° 5  | 24° 8  | 22°38 | 1°24   | 4°19  |
| S 21 | 10 3 44  | 2°12'13  | 16°12 | 6° 4   | 9°59   | 6° 0   | 13°33 | 17°55  | 14°15 | 6°40  | 6° 4  | 24° 2  | 22°34 | 1°31   | 4°23  |
| M 22 | 10 7 40  | 3°12'48  | 0♁52  | 7° 5   | 11°11  | 6°46   | 13°39 | 18° 1  | 14°18 | 6°39  | 6° 4  | 23°56  | 22°31 | 1°38   | 4°26  |
| T 23 | 10 11 37 | 4°13'22  | 15°36 | 8°10   | 12°23  | 7°32   | 13°46 | 18° 7  | 14°21 | 6°37  | 6° 3  | 23°50  | 22°28 | 1°44   | 4°29  |
| W 24 | 10 15 33 | 5°13'55  | 0♁15  | 9°16   | 13°35  | 8°17   | 13°52 | 18°14  | 14°23 | 6°36  | 6° 3  | 23°45  | 22°25 | 1°51   | 4°33  |
| T 25 | 10 19 30 | 6°14'26  | 14°44 | 10°25  | 14°47  | 9° 3   | 13°59 | 18°20  | 14°26 | 6°34  | 6° 2  | 23°41  | 22°22 | 1°58   | 4°36  |
| F 26 | 10 23 26 | 7°14'56  | 28°59 | 11°36  | 15°58  | 9°49   | 14° 5 | 18°26  | 14°28 | 6°33  | 6° 2  | 23°39  | 22°19 | 2° 4   | 4°40  |
| S 27 | 10 27 23 | 8°15'25  | 12♁58 | 12°48  | 17°10  | 10°35  | 14°11 | 18°32  | 14°31 | 6°31  | 6° 1  | 23°D39 | 22°15 | 2°11   | 4°43  |
| S 28 | 10 31 19 | 9♁15'53  | 26♁40 | 14♁ 3  | 18°V21 | 11°V21 | 14♁16 | 18°V39 | 14♁33 | 6♁30  | 6♁ 1  | 23♁40  | 22♁12 | 2♁18   | 4°V46 |

Delta T = 17m39s

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SWISS EPHEMERIS for the year 2410

MARCH 2410

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄     | ♅     | ♆     | ♇     | ♈      | ♉     | ♊    | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|------|---|---|---|---|---|---|---|---|
| M 1  | 10 35 16 | 10♈16'20 | 10♌6  | 15♋19 | 19♍32 | 12♎7  | 14♌22 | 18♏45 | 14♌36 | 6♎R29 | 6♎R 0 | 23♈41  | 22♈9  | 2♌25 | 4♎50 |   |   |   |   |   |   |   |   |
| T 2  | 10 39 13 | 11°16'45 | 23°19 | 16°36 | 20°44 | 12°52 | 14°28 | 18°52 | 14°38 | 6♎27  | 6♎0   | 23°R42 | 22°6  | 2°31 | 4°53 |   |   |   |   |   |   |   |   |
| W 3  | 10 43 9  | 12°17'09 | 6♋18  | 17°56 | 21°55 | 13°38 | 14°33 | 18°58 | 14°40 | 6°26  | 5°59  | 23°41  | 22°3  | 2°38 | 4°57 |   |   |   |   |   |   |   |   |
| T 4  | 10 47 6  | 13°17'31 | 19°6  | 19°16 | 23°6  | 14°24 | 14°38 | 19°5  | 14°43 | 6°25  | 5°59  | 23°38  | 21°59 | 2°45 | 5°1  |   |   |   |   |   |   |   |   |
| F 5  | 10 51 2  | 14°17'52 | 1♈43  | 20°38 | 24°16 | 15°9  | 14°43 | 19°11 | 14°45 | 6°24  | 5°59  | 23°32  | 21°56 | 2°52 | 5°4  |   |   |   |   |   |   |   |   |
| S 6  | 10 54 59 | 15°18'11 | 14°10 | 22°1  | 25°27 | 15°55 | 14°48 | 19°18 | 14°47 | 6°22  | 5°58  | 23°24  | 21°53 | 2°58 | 5°8  |   |   |   |   |   |   |   |   |
| S 7  | 10 58 55 | 16°18'28 | 26°28 | 23°26 | 26°38 | 16°41 | 14°53 | 19°25 | 14°49 | 6°21  | 5°58  | 23°15  | 21°50 | 3°5  | 5°11 |   |   |   |   |   |   |   |   |
| M 8  | 11 2 52  | 17°18'44 | 8♎36  | 24°52 | 27°48 | 17°26 | 14°57 | 19°32 | 14°52 | 6°20  | 5°58  | 23°4   | 21°47 | 3°12 | 5°15 |   |   |   |   |   |   |   |   |
| T 9  | 11 6 48  | 18°18'57 | 20°37 | 26°19 | 28°59 | 18°12 | 15°1  | 19°38 | 14°54 | 6°19  | 5°58  | 22°53  | 21°44 | 3°18 | 5°18 |   |   |   |   |   |   |   |   |
| W10  | 11 10 45 | 19°19'09 | 2♌32  | 27°47 | 0♌9   | 18°57 | 15°6  | 19°45 | 14°56 | 6°18  | 5°57  | 22°43  | 21°40 | 3°25 | 5°22 |   |   |   |   |   |   |   |   |
| T 11 | 11 14 41 | 20°19'19 | 14°23 | 29°16 | 1°19  | 19°42 | 15°10 | 19°52 | 14°58 | 6°16  | 5°57  | 22°35  | 21°37 | 3°32 | 5°26 |   |   |   |   |   |   |   |   |
| F 12 | 11 18 38 | 21°19'26 | 26°13 | 0♈47  | 2°29  | 20°28 | 15°13 | 19°59 | 15°0  | 6°15  | 5°57  | 22°29  | 21°34 | 3°39 | 5°29 |   |   |   |   |   |   |   |   |
| S 13 | 11 22 35 | 22°19'32 | 8♎8   | 2°19  | 3°39  | 21°13 | 15°17 | 20°6  | 15°2  | 6°14  | 5°57  | 22°26  | 21°31 | 3°45 | 5°33 |   |   |   |   |   |   |   |   |
| S 14 | 11 26 31 | 23°19'36 | 20°11 | 3°52  | 4°48  | 21°58 | 15°20 | 20°13 | 15°3  | 6°13  | 5°57  | 22°D25 | 21°28 | 3°52 | 5°37 |   |   |   |   |   |   |   |   |
| M15  | 11 30 28 | 24°19'38 | 2♌28  | 5°26  | 5°58  | 22°44 | 15°24 | 20°20 | 15°5  | 6°12  | 5°56  | 22°25  | 21°25 | 3°59 | 5°40 |   |   |   |   |   |   |   |   |
| T 16 | 11 34 24 | 25°19'37 | 15°3  | 7°1   | 7°7   | 23°29 | 15°27 | 20°27 | 15°7  | 6°11  | 5°56  | 22°26  | 21°21 | 4°5  | 5°44 |   |   |   |   |   |   |   |   |
| W17  | 11 38 21 | 26°19'34 | 28°2  | 8°37  | 8°17  | 24°14 | 15°30 | 20°34 | 15°9  | 6°10  | 5°56  | 22°R26 | 21°18 | 4°12 | 5°48 |   |   |   |   |   |   |   |   |
| T 18 | 11 42 17 | 27°19'30 | 11♎29 | 10°15 | 9°26  | 24°59 | 15°33 | 20°41 | 15°10 | 6°9   | 5°56  | 22°24  | 21°15 | 4°19 | 5°52 |   |   |   |   |   |   |   |   |
| F 19 | 11 46 14 | 28°19'23 | 25°24 | 11°53 | 10°35 | 25°44 | 15°35 | 20°49 | 15°12 | 6°8   | 5°56  | 22°20  | 21°12 | 4°26 | 5°55 |   |   |   |   |   |   |   |   |
| S 20 | 11 50 10 | 29°19'14 | 9♎47  | 13°33 | 11°43 | 26°29 | 15°38 | 20°56 | 15°14 | 6°7   | 5°D56 | 22°13  | 21°9  | 4°32 | 5°59 |   |   |   |   |   |   |   |   |
| S 21 | 11 54 7  | 0♎19'02  | 24°33 | 15°14 | 12°52 | 27°14 | 15°40 | 21°3  | 15°15 | 6°7   | 5°56  | 22°5   | 21°5  | 4°39 | 6°3  |   |   |   |   |   |   |   |   |
| M22  | 11 58 4  | 1°18'49  | 9♌35  | 16°56 | 14°0  | 27°59 | 15°42 | 21°10 | 15°17 | 6°6   | 5°56  | 21°54  | 21°2  | 4°46 | 6°7  |   |   |   |   |   |   |   |   |
| T 23 | 12 2 0   | 2°18'34  | 24°44 | 18°39 | 15°9  | 28°44 | 15°44 | 21°18 | 15°18 | 6°5   | 5°56  | 21°44  | 20°59 | 4°52 | 6°10 |   |   |   |   |   |   |   |   |
| W24  | 12 5 57  | 3°18'17  | 9♎48  | 20°24 | 16°17 | 29°29 | 15°45 | 21°25 | 15°19 | 6°4   | 5°56  | 21°34  | 20°56 | 4°59 | 6°14 |   |   |   |   |   |   |   |   |
| T 25 | 12 9 53  | 4°17'59  | 24°39 | 22°10 | 17°25 | 0♌13  | 15°47 | 21°32 | 15°21 | 6°3   | 5°56  | 21°27  | 20°53 | 5°6  | 6°18 |   |   |   |   |   |   |   |   |
| F 26 | 12 13 50 | 5°17'38  | 9♌10  | 23°57 | 18°32 | 0°58  | 15°48 | 21°40 | 15°22 | 6°3   | 5°56  | 21°22  | 20°50 | 5°13 | 6°22 |   |   |   |   |   |   |   |   |
| S 27 | 12 17 46 | 6°17'16  | 23°17 | 25°45 | 19°40 | 1°43  | 15°49 | 21°47 | 15°23 | 6°2   | 5°57  | 21°20  | 20°46 | 5°19 | 6°25 |   |   |   |   |   |   |   |   |
| S 28 | 12 21 43 | 7°16'53  | 7♌0   | 27°34 | 20°47 | 2°27  | 15°50 | 21°54 | 15°25 | 6°1   | 5°57  | 21°D19 | 20°43 | 5°26 | 6°29 |   |   |   |   |   |   |   |   |
| M29  | 12 25 39 | 8°16'28  | 20°21 | 29°25 | 21°54 | 3°12  | 15°51 | 22°2  | 15°26 | 6°1   | 5°57  | 21°R19 | 20°40 | 5°33 | 6°33 |   |   |   |   |   |   |   |   |
| T 30 | 12 29 36 | 9°16'01  | 3♋22  | 1°17  | 23°1  | 3°56  | 15°51 | 22°9  | 15°27 | 6°0   | 5°57  | 21°19  | 20°37 | 5°40 | 6°37 |   |   |   |   |   |   |   |   |
| W31  | 12 33 33 | 10°15'32 | 16♋7  | 3°10  | 24♌8  | 4♌41  | 15°52 | 22°17 | 15°28 | 6♎0   | 5♌57  | 21♌17  | 20♌34 | 5♌46 | 6°40 |   |   |   |   |   |   |   |   |

Delta T = 17m39s

APRIL 2410

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♁     | ♂     | ♃      | ♄      | ♅      | ♆     | ♇    | ♈      | ♉     | ♊    | ♋     | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|-------|-------|-------|--------|--------|--------|-------|------|--------|-------|------|-------|---|---|---|---|---|---|---|---|
| T 1  | 12 37 29 | 11°15'01 | 28♋39 | 5♎5   | 25♌15 | 5♌25  | 15°R52 | 22°V24 | 15♌29  | 5°R59 | 5♌58 | 21°R12 | 20♌31 | 5♌53 | 6°V44 |   |   |   |   |   |   |   |   |
| F 2  | 12 41 26 | 12°14'29 | 11♈0  | 7°1   | 26°21 | 6°10  | 15°52  | 22°32  | 15°30  | 5♎59  | 5°58 | 21♌4   | 20°27 | 6°0  | 6°48  |   |   |   |   |   |   |   |   |
| S 3  | 12 45 22 | 13°13'54 | 23°13 | 8°58  | 27°27 | 6°54  | 15°52  | 22°39  | 15°31  | 5°58  | 5°58 | 20°54  | 20°24 | 6°6  | 6°52  |   |   |   |   |   |   |   |   |
| S 4  | 12 49 19 | 14°13'18 | 5♎19  | 10°56 | 28°33 | 7°39  | 15°51  | 22°47  | 15°32  | 5°58  | 5°59 | 20°40  | 20°21 | 6°13 | 6°55  |   |   |   |   |   |   |   |   |
| M 5  | 12 53 15 | 15°12'40 | 17°19 | 12°55 | 29°39 | 8°23  | 15°51  | 22°54  | 15°32  | 5°57  | 5°59 | 20°26  | 20°18 | 6°20 | 6°59  |   |   |   |   |   |   |   |   |
| T 6  | 12 57 12 | 16°11'59 | 29°14 | 14°56 | 0♎44  | 9°7   | 15°50  | 23°2   | 15°33  | 5°57  | 5°59 | 20°12  | 20°15 | 6°27 | 7°3   |   |   |   |   |   |   |   |   |
| W 7  | 13 1 8   | 17°11'17 | 11♌6  | 16°57 | 1°49  | 9°51  | 15°49  | 23°9   | 15°34  | 5°57  | 6°0  | 19°58  | 20°11 | 6°33 | 7°6   |   |   |   |   |   |   |   |   |
| T 8  | 13 5 5   | 18°10'33 | 22°57 | 19°0  | 2°54  | 10°35 | 15°48  | 23°17  | 15°34  | 5°56  | 6°0  | 19°47  | 20°8  | 6°40 | 7°10  |   |   |   |   |   |   |   |   |
| F 9  | 13 9 1   | 19°9'46  | 4♎48  | 21°3  | 3°59  | 11°19 | 15°47  | 23°24  | 15°35  | 5°56  | 6°1  | 19°38  | 20°5  | 6°47 | 7°14  |   |   |   |   |   |   |   |   |
| S 10 | 13 12 58 | 20°8'57  | 16°43 | 23°6  | 5°3   | 12°3  | 15°45  | 23°32  | 15°35  | 5°56  | 6°1  | 19°32  | 20°2  | 6°53 | 7°18  |   |   |   |   |   |   |   |   |
| S 11 | 13 16 55 | 21°8'06  | 28°45 | 25°11 | 6°7   | 12°47 | 15°43  | 23°39  | 15°36  | 5°56  | 6°1  | 19°29  | 19°59 | 7°0  | 7°21  |   |   |   |   |   |   |   |   |
| M12  | 13 20 51 | 22°7'13  | 11♌0  | 27°15 | 7°11  | 13°31 | 15°41  | 23°47  | 15°36  | 5°55  | 6°2  | 19°28  | 19°56 | 7°7  | 7°25  |   |   |   |   |   |   |   |   |
| T 13 | 13 24 48 | 23°6'17  | 23°31 | 29°20 | 8°15  | 14°15 | 15°39  | 23°55  | 15°37  | 5°55  | 6°2  | 19°28  | 19°52 | 7°14 | 7°29  |   |   |   |   |   |   |   |   |
| W14  | 13 28 44 | 24°5'20  | 6♎24  | 1♌24  | 9°18  | 14°59 | 15°37  | 24°2   | 15°37  | 5°55  | 6°3  | 19°27  | 19°49 | 7°20 | 7°32  |   |   |   |   |   |   |   |   |
| T 15 | 13 32 41 | 25°4'19  | 19°44 | 3°27  | 10°21 | 15°43 | 15°35  | 24°10  | 15°37  | 5°55  | 6°4  | 19°26  | 19°46 | 7°27 | 7°36  |   |   |   |   |   |   |   |   |
| F 16 | 13 36 37 | 26°3'17  | 3♎34  | 5°30  | 11°23 | 16°27 | 15°32  | 24°17  | 15°38  | 5°D55 | 6°4  | 19°22  | 19°43 | 7°34 | 7°39  |   |   |   |   |   |   |   |   |
| S 17 | 13 40 34 | 27°2'12  | 17°53 | 7°32  | 12°26 | 17°10 | 15°29  | 24°25  | 15°38  | 5°55  | 6°5  | 19°15  | 19°40 | 7°40 | 7°43  |   |   |   |   |   |   |   |   |
| S 18 | 13 44 30 | 28°1'05  | 2♌40  | 9°32  | 13°28 | 17°54 | 15°26  | 24°32  | 15°38  | 5°55  | 6°5  | 19°6   | 19°36 | 7°47 | 7°47  |   |   |   |   |   |   |   |   |
| M19  | 13 48 27 | 28°59'56 | 17°48 | 11°30 | 14°29 | 18°37 | 15°23  | 24°40  | 15°38  | 5°55  | 6°6  | 18°56  | 19°33 | 7°54 | 7°50  |   |   |   |   |   |   |   |   |
| T 20 | 13 52 24 | 29°58'45 | 3♎7   | 13°26 | 15°30 | 19°21 | 15°20  | 24°47  | 15°R38 | 5°55  | 6°7  | 18°45  | 19°30 | 8°1  | 7°54  |   |   |   |   |   |   |   |   |
| W21  | 13 56 20 | 0♌57'32  | 18°26 | 15°19 | 16°31 | 20°4  | 15°16  | 24°55  | 15°38  | 5°56  | 6°7  | 18°35  | 19°27 | 8°7  | 7°57  |   |   |   |   |   |   |   |   |
| T 22 | 14 0 17  | 1°56'17  | 3♌33  | 17°9  | 17°32 | 20°48 | 15°13  | 25°2   | 15°38  | 5°56  | 6°8  | 18°27  | 19°24 | 8°14 | 8°1   |   |   |   |   |   |   |   |   |
| F 23 | 14 4 13  | 2°55'00  | 18°20 | 18°56 | 18°32 | 21°31 | 15°9   | 25°10  | 15°38  | 5°56  | 6°9  | 18°21  | 19°21 | 8°21 | 8°4   |   |   |   |   |   |   |   |   |
| S 24 | 14 8 10  | 3°53'42  | 2♌41  | 20°40 | 19°31 | 22°15 | 15°5   | 25°18  | 15°37  | 5°56  | 6°10 | 18°19  | 19°17 | 8°27 | 8°8   |   |   |   |   |   |   |   |   |
| S 25 | 14 12 6  | 4°52'22  | 16°34 | 22°19 | 20°31 | 22°58 | 15°1   | 25°25  | 15°37  | 5°56  | 6°10 | 18°D18 | 19°14 | 8°34 | 8°11  |   |   |   |   |   |   |   |   |
| M26  | 14 16 3  | 5°51'00  | 0♋0   | 23°55 | 21°30 | 23°41 | 14°56  | 25°33  | 15°37  | 5°57  | 6°11 | 18°R18 | 19°11 | 8°41 | 8°14  |   |   |   |   |   |   |   |   |
| T 27 | 14 19 59 | 6°49'37  | 13°1  | 25°26 | 22°28 | 24°24 | 14°52  | 25°40  | 15°37  | 5°57  | 6°12 | 18°18  | 19°8  | 8°48 | 8°18  |   |   |   |   |   |   |   |   |
| W28  | 14 23 56 | 7°48'12  | 25°43 | 26°54 | 23°26 | 25°7  | 14°47  | 25°47  | 15°36  | 5°57  | 6°13 | 18°17  | 19°5  | 8°54 | 8°21  |   |   |   |   |   |   |   |   |
| T 29 | 14 27 53 | 8°46'45  | 8♈8   | 28°16 | 24°23 | 25°51 | 14°42  | 25°55  | 15°36  | 5°58  | 6°14 | 18°13  | 19°2  | 9°1  | 8°25  |   |   |   |   |   |   |   |   |
| F 30 | 14 31 49 | 9°45'17  | 20♈20 | 29♌34 | 25♎20 | 26♌34 | 14°37  | 26°V2  | 15°35  | 5♎58  | 6♌15 | 18♌7   | 18♌58 | 9♌8  | 8°V28 |   |   |   |   |   |   |   |   |

Delta T = 17m39s

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SWISS EPHEMERIS for the year 2410

MAY 2410

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♃     | ♄     | ♅     | ♆      | ♇     | ♈      | ♉    | ♊    | ♋      | ♌     | ♍     | ♎    | ♏ | ♐ | ♑ |
|------|----------|----------|-------|-------|-------|-------|--------|-------|--------|------|------|--------|-------|-------|------|---|---|---|
| S 1  | 14 35 46 | 10♈43'47 | 2♉24  | 0♊17  | 26♋17 | 27♌17 | 14°R32 | 26♍10 | 15°R35 | 5♎59 | 6♏15 | 17°R58 | 18♐55 | 9♑14  | 8♒31 |   |   |   |
| S 2  | 14 39 42 | 11°42'15 | 14°22 | 1°55  | 27°13 | 28° 0 | 14♌27  | 26°17 | 15♍34  | 5°59 | 6°16 | 17♎47  | 18°52 | 9°21  | 8°35 |   |   |   |
| M 3  | 14 43 39 | 12°40'42 | 26°16 | 2°58  | 28° 8 | 28°43 | 14°22  | 26°25 | 15°34  | 6° 0 | 6°17 | 17°35  | 18°49 | 9°28  | 8°38 |   |   |   |
| T 4  | 14 47 35 | 13°39'07 | 8♌ 7  | 3°56  | 29° 3 | 29°25 | 14°16  | 26°32 | 15°33  | 6° 0 | 6°18 | 17°22  | 18°46 | 9°35  | 8°41 |   |   |   |
| W 5  | 14 51 32 | 14°37'30 | 19°58 | 4°49  | 29°57 | 0♊ 8  | 14°11  | 26°39 | 15°32  | 6° 1 | 6°19 | 17°11  | 18°42 | 9°41  | 8°44 |   |   |   |
| T 6  | 14 55 28 | 15°35'51 | 1♊51  | 5°37  | 0♋51  | 0°51  | 14° 5  | 26°47 | 15°31  | 6° 2 | 6°20 | 17° 1  | 18°39 | 9°48  | 8°47 |   |   |   |
| F 7  | 14 59 25 | 16°34'11 | 13°45 | 6°19  | 1°44  | 1°34  | 13°59  | 26°54 | 15°30  | 6° 2 | 6°21 | 16°54  | 18°36 | 9°55  | 8°51 |   |   |   |
| S 8  | 15 3 22  | 17°32'28 | 25°45 | 6°56  | 2°37  | 2°16  | 13°53  | 27° 1 | 15°30  | 6° 3 | 6°22 | 16°49  | 18°33 | 10° 1 | 8°54 |   |   |   |
| S 9  | 15 7 18  | 18°30'44 | 7♌52  | 7°27  | 3°29  | 2°59  | 13°47  | 27° 8 | 15°29  | 6° 4 | 6°23 | 16°47  | 18°30 | 10° 8 | 8°57 |   |   |   |
| M10  | 15 11 15 | 19°28'58 | 20°11 | 7°53  | 4°20  | 3°42  | 13°40  | 27°16 | 15°28  | 6° 4 | 6°24 | 16°D46 | 18°27 | 10°15 | 9° 0 |   |   |   |
| T 11 | 15 15 11 | 20°27'10 | 2♌44  | 8°14  | 5°10  | 4°24  | 13°34  | 27°23 | 15°27  | 6° 5 | 6°25 | 16°47  | 18°23 | 10°22 | 9° 3 |   |   |   |
| W12  | 15 19 8  | 21°25'19 | 15°36 | 8°29  | 6° 0  | 5° 7  | 13°28  | 27°30 | 15°26  | 6° 6 | 6°26 | 16°R48 | 18°20 | 10°28 | 9° 6 |   |   |   |
| T 13 | 15 23 4  | 22°23'27 | 28°51 | 8°39  | 6°49  | 5°49  | 13°21  | 27°37 | 15°25  | 6° 7 | 6°27 | 16°48  | 18°17 | 10°35 | 9° 9 |   |   |   |
| F 14 | 15 27 1  | 23°21'33 | 12♎33 | 8°R44 | 7°37  | 6°31  | 13°14  | 27°44 | 15°23  | 6° 8 | 6°28 | 16°46  | 18°14 | 10°42 | 9°12 |   |   |   |
| S 15 | 15 30 57 | 24°19'37 | 26°41 | 8°44  | 8°24  | 7°14  | 13° 7  | 27°51 | 15°22  | 6° 9 | 6°30 | 16°42  | 18°11 | 10°48 | 9°15 |   |   |   |
| S 16 | 15 34 54 | 25°17'39 | 11♌17 | 8°38  | 9°11  | 7°56  | 13° 1  | 27°58 | 15°21  | 6°10 | 6°31 | 16°37  | 18° 8 | 10°55 | 9°17 |   |   |   |
| M17  | 15 38 51 | 26°15'39 | 26°14 | 8°28  | 9°56  | 8°38  | 12°54  | 28° 5 | 15°20  | 6°11 | 6°32 | 16°30  | 18° 4 | 11° 2 | 9°20 |   |   |   |
| T 18 | 15 42 47 | 27°13'37 | 11♍25 | 8°14  | 10°41 | 9°20  | 12°47  | 28°12 | 15°18  | 6°12 | 6°33 | 16°22  | 18° 1 | 11° 9 | 9°23 |   |   |   |
| W19  | 15 46 44 | 28°11'34 | 26°41 | 7°55  | 11°24 | 10° 2 | 12°39  | 28°19 | 15°17  | 6°13 | 6°34 | 16°15  | 17°58 | 11°15 | 9°26 |   |   |   |
| T 20 | 15 50 40 | 29° 9'29 | 11♌50 | 7°32  | 12° 7 | 10°44 | 12°32  | 28°26 | 15°16  | 6°14 | 6°35 | 16°10  | 17°55 | 11°22 | 9°28 |   |   |   |
| F 21 | 15 54 37 | 0♊ 7'23  | 26°43 | 7° 6  | 12°49 | 11°27 | 12°25  | 28°33 | 15°14  | 6°15 | 6°36 | 16° 7  | 17°52 | 11°29 | 9°31 |   |   |   |
| S 22 | 15 58 33 | 1° 5'16  | 11♌13 | 6°37  | 13°29 | 12° 9 | 12°18  | 28°40 | 15°13  | 6°16 | 6°38 | 16°D 5 | 17°48 | 11°35 | 9°34 |   |   |   |
| S 23 | 16 2 30  | 2° 3'07  | 25°15 | 6° 6  | 14° 8 | 12°50 | 12°10  | 28°46 | 15°11  | 6°17 | 6°39 | 16° 5  | 17°45 | 11°42 | 9°36 |   |   |   |
| M24  | 16 6 26  | 3° 0'57  | 8♌50  | 5°33  | 14°47 | 13°32 | 12° 3  | 28°53 | 15°10  | 6°18 | 6°40 | 16° 6  | 17°42 | 11°49 | 9°39 |   |   |   |
| T 25 | 16 10 23 | 3°58'46  | 21°58 | 4°59  | 15°24 | 14°14 | 11°55  | 29° 0 | 15° 8  | 6°19 | 6°41 | 16° 8  | 17°39 | 11°56 | 9°41 |   |   |   |
| W26  | 16 14 20 | 4°56'34  | 4♌43  | 4°24  | 16° 0 | 14°56 | 11°48  | 29° 7 | 15° 6  | 6°21 | 6°43 | 16°R 8 | 17°36 | 12° 2 | 9°44 |   |   |   |
| T 27 | 16 18 16 | 5°54'20  | 17° 8 | 3°49  | 16°34 | 15°38 | 11°40  | 29°13 | 15° 5  | 6°22 | 6°44 | 16° 8  | 17°33 | 12° 9 | 9°46 |   |   |   |
| F 28 | 16 22 13 | 6°52'06  | 29°20 | 3°15  | 17° 7 | 16°19 | 11°33  | 29°20 | 15° 3  | 6°23 | 6°45 | 16° 5  | 17°29 | 12°16 | 9°49 |   |   |   |
| S 29 | 16 26 9  | 7°49'50  | 11♉21 | 2°42  | 17°39 | 17° 1 | 11°25  | 29°26 | 15° 1  | 6°25 | 6°46 | 16° 1  | 17°26 | 12°22 | 9°51 |   |   |   |
| S 30 | 16 30 6  | 8°47'33  | 23°15 | 2°11  | 18°10 | 17°43 | 11°18  | 29°33 | 14°59  | 6°26 | 6°48 | 15°56  | 17°23 | 12°29 | 9°53 |   |   |   |
| M31  | 16 34 2  | 9♊45'16  | 5♌ 6  | 1♊42  | 18♌38 | 18♊24 | 11♌10  | 29♉39 | 14♌58  | 6♎27 | 6♏49 | 15♏50  | 17♐20 | 12♑36 | 9♒56 |   |   |   |

Delta T = 17m40s

JUNE 2410

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♃      | ♄      | ♅     | ♆      | ♇     | ♈      | ♉    | ♊    | ♋      | ♌     | ♍     | ♎     | ♏ | ♐ | ♑ |
|------|----------|----------|-------|--------|--------|-------|--------|-------|--------|------|------|--------|-------|-------|-------|---|---|---|
| T 1  | 16 37 59 | 10♊42'57 | 16♌57 | 1°R16  | 19♌ 6  | 19♊ 6 | 11°R 2 | 29♉45 | 14°R56 | 6♎29 | 6♏50 | 15°R43 | 17♐17 | 12♑42 | 9♒58  |   |   |   |
| W 2  | 16 41 55 | 11°40'37 | 28°50 | 0♊53   | 19°32  | 19°47 | 10♌55  | 29°52 | 14♌54  | 6°30 | 6°52 | 15♌37  | 17°14 | 12°49 | 10° 0 |   |   |   |
| T 3  | 16 45 52 | 12°38'15 | 10♊46 | 0°33   | 19°56  | 20°29 | 10°47  | 29°58 | 14°52  | 6°32 | 6°53 | 15°32  | 17°10 | 12°56 | 10° 2 |   |   |   |
| F 4  | 16 49 49 | 13°35'53 | 22°49 | 0°17   | 20°18  | 21°10 | 10°39  | 0♌ 4  | 14°50  | 6°33 | 6°54 | 15°28  | 17° 7 | 13° 3 | 10° 4 |   |   |   |
| S 5  | 16 53 45 | 14°33'30 | 4♌59  | 0° 5   | 20°39  | 21°52 | 10°32  | 0°10  | 14°48  | 6°35 | 6°56 | 15°26  | 17° 4 | 13° 9 | 10° 6 |   |   |   |
| S 6  | 16 57 42 | 15°31'05 | 17°17 | 29♌58  | 20°57  | 22°33 | 10°24  | 0°17  | 14°46  | 6°36 | 6°57 | 15°D26 | 17° 1 | 13°16 | 10° 8 |   |   |   |
| M 7  | 17 1 38  | 16°28'39 | 29°48 | 29°D54 | 21°14  | 23°14 | 10°17  | 0°23  | 14°44  | 6°38 | 6°58 | 15°27  | 16°58 | 13°23 | 10°10 |   |   |   |
| T 8  | 17 5 35  | 17°26'12 | 12♌31 | 29°56  | 21°29  | 23°55 | 10° 9  | 0°29  | 14°42  | 6°39 | 7° 0 | 15°28  | 16°54 | 13°29 | 10°12 |   |   |   |
| W 9  | 17 9 31  | 18°23'44 | 25°31 | 0♊ 1   | 21°42  | 24°37 | 10° 1  | 0°34  | 14°40  | 6°41 | 7° 1 | 15°30  | 16°51 | 13°36 | 10°14 |   |   |   |
| T 10 | 17 13 28 | 19°21'14 | 8♎49  | 0°11   | 21°53  | 25°18 | 9°54   | 0°40  | 14°38  | 6°42 | 7° 3 | 15°31  | 16°48 | 13°43 | 10°16 |   |   |   |
| F 11 | 17 17 24 | 20°18'43 | 22°27 | 0°26   | 22° 1  | 25°59 | 9°47   | 0°46  | 14°36  | 6°44 | 7° 4 | 15°R31 | 16°45 | 13°50 | 10°18 |   |   |   |
| S 12 | 17 21 21 | 21°16'10 | 6♌27  | 0°45   | 22° 8  | 26°40 | 9°39   | 0°52  | 14°34  | 6°46 | 7° 5 | 15°30  | 16°42 | 13°56 | 10°19 |   |   |   |
| S 13 | 17 25 18 | 22°13'36 | 20°48 | 1° 8   | 22°12  | 27°21 | 9°32   | 0°58  | 14°31  | 6°47 | 7° 7 | 15°29  | 16°39 | 14° 3 | 10°21 |   |   |   |
| M14  | 17 29 14 | 23°11'02 | 5♍27  | 1°36   | 22°R13 | 28° 2 | 9°25   | 1° 3  | 14°29  | 6°49 | 7° 8 | 15°26  | 16°35 | 14°10 | 10°23 |   |   |   |
| T 15 | 17 33 11 | 24° 8'26 | 20°18 | 2° 8   | 22°13  | 28°43 | 9°17   | 1° 9  | 14°27  | 6°51 | 7°10 | 15°23  | 16°32 | 14°16 | 10°24 |   |   |   |
| W16  | 17 37 7  | 25° 5'49 | 5♌16  | 2°44   | 22°10  | 29°24 | 9°10   | 1°14  | 14°25  | 6°52 | 7°11 | 15°21  | 16°29 | 14°23 | 10°26 |   |   |   |
| T 17 | 17 41 4  | 26° 3'11 | 20°10 | 3°24   | 22° 5  | 0♌ 5  | 9° 3   | 1°20  | 14°23  | 6°54 | 7°12 | 15°19  | 16°26 | 14°30 | 10°27 |   |   |   |
| F 18 | 17 45 0  | 27° 0'33 | 4♌54  | 4° 8   | 21°57  | 0°45  | 8°56   | 1°25  | 14°20  | 6°56 | 7°14 | 15°18  | 16°23 | 14°37 | 10°29 |   |   |   |
| S 19 | 17 48 57 | 27°57'53 | 19°20 | 4°56   | 21°47  | 1°26  | 8°49   | 1°30  | 14°18  | 6°58 | 7°15 | 15°D18 | 16°20 | 14°43 | 10°30 |   |   |   |
| S 20 | 17 52 54 | 28°55'13 | 3♌24  | 5°48   | 21°34  | 2° 7  | 8°42   | 1°36  | 14°16  | 7° 0 | 7°17 | 15°18  | 16°16 | 14°50 | 10°31 |   |   |   |
| M21  | 17 56 50 | 29°52'33 | 17° 2 | 6°44   | 21°19  | 2°48  | 8°36   | 1°41  | 14°13  | 7° 2 | 7°18 | 15°19  | 16°13 | 14°57 | 10°33 |   |   |   |
| T 22 | 18 0 47  | 0♋49'52  | 0♌16  | 7°44   | 21° 2  | 3°28  | 8°29   | 1°46  | 14°11  | 7° 3 | 7°20 | 15°20  | 16°10 | 15° 3 | 10°34 |   |   |   |
| W23  | 18 4 43  | 1°47'11  | 13° 6 | 8°47   | 20°42  | 4° 9  | 8°23   | 1°51  | 14° 9  | 7° 5 | 7°21 | 15°21  | 16° 7 | 15°10 | 10°35 |   |   |   |
| T 24 | 18 8 40  | 2°44'29  | 25°35 | 9°53   | 20°20  | 4°49  | 8°16   | 1°56  | 14° 6  | 7° 7 | 7°23 | 15°22  | 16° 4 | 15°17 | 10°36 |   |   |   |
| F 25 | 18 12 36 | 3°41'47  | 7♉49  | 11° 4  | 19°56  | 5°30  | 8°10   | 2° 1  | 14° 4  | 7° 9 | 7°24 | 15°R22 | 16° 0 | 15°23 | 10°37 |   |   |   |
| S 26 | 18 16 33 | 4°39'04  | 19°51 | 12°17  | 19°30  | 6°10  | 8° 4   | 2° 6  | 14° 2  | 7°11 | 7°25 | 15°22  | 15°57 | 15°30 | 10°38 |   |   |   |
| S 27 | 18 20 29 | 5°36'22  | 1♌45  | 13°34  | 19° 2  | 6°51  | 7°58   | 2°10  | 13°59  | 7°13 | 7°27 | 15°21  | 15°54 | 15°37 | 10°39 |   |   |   |
| M28  | 18 24 26 | 6°33'39  | 13°36 | 14°55  | 18°33  | 7°31  | 7°52   | 2°15  | 13°57  | 7°15 | 7°28 | 15°20  | 15°51 | 15°44 | 10°40 |   |   |   |
| T 29 | 18 28 23 | 7°30'56  | 25°28 | 16°19  | 18° 1  | 8°12  | 7°46   | 2°19  | 13°54  | 7°17 | 7°30 | 15°19  | 15°48 | 15°50 | 10°41 |   |   |   |
| W30  | 18 32 19 | 8♌28'13  | 7♊24  | 17♊46  | 17♌28  | 8♌52  | 7♌40   | 2♌24  | 13♌52  | 7♎19 | 7♏31 | 15♏18  | 15♐45 | 15♑57 | 10♒42 |   |   |   |

Delta T = 17m40s

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SWISS EPHEMERIS for the year 2410

JULY 2410

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                      | ♀                      | ♂                   | ♂                   | ♂                  | ♂                  | ♂                   | ♂                  | ♂                  | ♂                   | ♂                   | ♂                   | ♂                   |
|------|----------|-----------------------|------------------------|------------------------|---------------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
| T 1  | 18 36 16 | 9 <sup>h</sup> 25'29" | 19 <sup>h</sup> 11'27" | 19 <sup>h</sup> 11'16" | 16°R54              | 9 <sup>h</sup> 32'  | 7°R34              | 2 <sup>h</sup> 28' | 13°R50              | 7 <sup>h</sup> 21' | 7 <sup>h</sup> 33' | 15°R17              | 15 <sup>h</sup> 41' | 16 <sup>h</sup> 8'  | 10 <sup>h</sup> 42' |
| F 2  | 18 40 12 | 10°22'46"             | 1 <sup>h</sup> 40'     | 20°50'                 | 16 <sup>h</sup> 19' | 10°12'              | 7 <sup>h</sup> 29' | 2°33'              | 13 <sup>h</sup> 47' | 7°23'              | 7°34'              | 15 <sup>h</sup> 16' | 15°38'              | 16°10'              | 10°43'              |
| S 3  | 18 44 9  | 11°20'02"             | 14° 3'                 | 22°26'                 | 15°43'              | 10°53'              | 7°24'              | 2°37'              | 13°45'              | 7°25'              | 7°36'              | 15°D16'             | 15°35'              | 16°17'              | 10°44'              |
| S 4  | 18 48 5  | 12°17'17"             | 26°39'                 | 24° 6'                 | 15° 6'              | 11°33'              | 7°19'              | 2°41'              | 13°42'              | 7°27'              | 7°37'              | 15°16'              | 15°32'              | 16°24'              | 10°44'              |
| M 5  | 18 52 2  | 13°14'33"             | 9 <sup>h</sup> 28'     | 25°50'                 | 14°28'              | 12°13'              | 7°14'              | 2°45'              | 13°40'              | 7°29'              | 7°38'              | 15°17'              | 15°29'              | 16°31'              | 10°45'              |
| T 6  | 18 55 58 | 14°11'48"             | 22°30'                 | 27°36'                 | 13°51'              | 12°53'              | 7° 9'              | 2°49'              | 13°37'              | 7°31'              | 7°40'              | 15°17'              | 15°26'              | 16°37'              | 10°45'              |
| W 7  | 18 59 55 | 15° 9'02"             | 5 <sup>h</sup> 47'     | 29°25'                 | 13°13'              | 13°33'              | 7° 4'              | 2°53'              | 13°35'              | 7°33'              | 7°41'              | 15°R17'             | 15°22'              | 16°44'              | 10°46'              |
| T 8  | 19 3 52  | 16° 6'16"             | 19°18'                 | 1 <sup>h</sup> 17'     | 12°36'              | 14°13'              | 6°59'              | 2°57'              | 13°32'              | 7°35'              | 7°43'              | 15°17'              | 15°19'              | 16°51'              | 10°46'              |
| F 9  | 19 7 48  | 17° 3'30"             | 3 <sup>h</sup> 3'      | 3°11'                  | 12° 0'              | 14°53'              | 6°55'              | 3° 1'              | 13°30'              | 7°37'              | 7°44'              | 15°17'              | 15°16'              | 16°57'              | 10°46'              |
| S 10 | 19 11 45 | 18° 0'44"             | 17° 2'                 | 5° 8'                  | 11°24'              | 15°33'              | 6°51'              | 3° 4'              | 13°28'              | 7°39'              | 7°46'              | 15°D17'             | 15°13'              | 17° 4'              | 10°47'              |
| S 11 | 19 15 41 | 18°57'56"             | 1 <sup>h</sup> 14'     | 7° 8'                  | 10°49'              | 16°13'              | 6°47'              | 3° 8'              | 13°25'              | 7°42'              | 7°47'              | 15°17'              | 15°10'              | 17°11'              | 10°47'              |
| M12  | 19 19 38 | 19°55'09"             | 15°35'                 | 9°10'                  | 10°15'              | 16°53'              | 6°43'              | 3°12'              | 13°23'              | 7°44'              | 7°49'              | 15°17'              | 15° 6'              | 17°17'              | 10°47'              |
| T 13 | 19 23 34 | 20°52'22"             | 0 <sup>h</sup> 7'      | 11°13'                 | 9°42'               | 17°33'              | 6°39'              | 3°15'              | 13°20'              | 7°46'              | 7°50'              | 15°17'              | 15° 3'              | 17°24'              | 10°47'              |
| W14  | 19 27 31 | 21°49'34"             | 14°36'                 | 13°19'                 | 9°11'               | 18°13'              | 6°35'              | 3°18'              | 13°18'              | 7°48'              | 7°51'              | 15°18'              | 15° 0'              | 17°31'              | 10°R47'             |
| T 15 | 19 31 27 | 22°46'46"             | 29° 5'                 | 15°25'                 | 8°42'               | 18°52'              | 6°32'              | 3°22'              | 13°16'              | 7°50'              | 7°53'              | 15°18'              | 14°57'              | 17°38'              | 10°47'              |
| F 16 | 19 35 24 | 23°43'58"             | 13 <sup>h</sup> 28'    | 17°33'                 | 8°15'               | 19°32'              | 6°29'              | 3°25'              | 13°13'              | 7°52'              | 7°54'              | 15°R19'             | 14°54'              | 17°44'              | 10°47'              |
| S 17 | 19 39 21 | 24°41'10"             | 27°37'                 | 19°42'                 | 7°50'               | 20°12'              | 6°26'              | 3°28'              | 13°11'              | 7°54'              | 7°56'              | 15°18'              | 14°51'              | 17°51'              | 10°47'              |
| S 18 | 19 43 17 | 25°38'23"             | 11 <sup>h</sup> 30'    | 21°51'                 | 7°26'               | 20°51'              | 6°23'              | 3°31'              | 13° 8'              | 7°57'              | 7°57'              | 15°18'              | 14°47'              | 17°58'              | 10°47'              |
| M19  | 19 47 14 | 26°35'35"             | 25° 4'                 | 24° 1'                 | 7° 5'               | 21°31'              | 6°20'              | 3°34'              | 13° 6'              | 7°59'              | 7°58'              | 15°17'              | 14°44'              | 18° 4'              | 10°46'              |
| T 20 | 19 51 10 | 27°32'48"             | 8 <sup>h</sup> 15'     | 26°10'                 | 6°47'               | 22°11'              | 6°17'              | 3°36'              | 13° 4'              | 8° 1'              | 8° 0'              | 15°15'              | 14°41'              | 18°11'              | 10°46'              |
| W21  | 19 55 7  | 28°30'01"             | 21° 6'                 | 28°19'                 | 6°30'               | 22°50'              | 6°15'              | 3°39'              | 13° 1'              | 8° 3'              | 8° 1'              | 15°13'              | 14°38'              | 18°18'              | 10°46'              |
| T 22 | 19 59 3  | 29°27'15"             | 3 <sup>h</sup> 38'     | 0 <sup>h</sup> 28'     | 6°16'               | 23°30'              | 6°13'              | 3°42'              | 12°59'              | 8° 5'              | 8° 3'              | 15°12'              | 14°35'              | 18°24'              | 10°45'              |
| F 23 | 20 3 0   | 0 <sup>h</sup> 24'29" | 15°54'                 | 2°36'                  | 6° 5'               | 24° 9'              | 6°11'              | 3°44'              | 12°57'              | 8° 8'              | 8° 4'              | 15°11'              | 14°31'              | 18°31'              | 10°45'              |
| S 24 | 20 6 56  | 1°21'44"              | 27°57'                 | 4°43'                  | 5°55'               | 24°49'              | 6° 9'              | 3°46'              | 12°55'              | 8°10'              | 8° 5'              | 15°D10'             | 14°28'              | 18°38'              | 10°44'              |
| S 25 | 20 10 53 | 2°19'00"              | 9 <sup>h</sup> 52'     | 6°48'                  | 5°48'               | 25°28'              | 6° 7'              | 3°49'              | 12°52'              | 8°12'              | 8° 7'              | 15°10'              | 14°25'              | 18°45'              | 10°44'              |
| M26  | 20 14 50 | 3°16'16"              | 21°43'                 | 8°53'                  | 5°44'               | 26° 8'              | 6° 6'              | 3°51'              | 12°50'              | 8°14'              | 8° 8'              | 15°11'              | 14°22'              | 18°51'              | 10°43'              |
| T 27 | 20 18 46 | 4°13'33"              | 3 <sup>h</sup> 37'     | 10°56'                 | 5°D42'              | 26°47'              | 6° 4'              | 3°53'              | 12°48'              | 8°16'              | 8° 9'              | 15°12'              | 14°19'              | 18°58'              | 10°43'              |
| W28  | 20 22 43 | 5°10'51"              | 15°35'                 | 12°57'                 | 5°42'               | 27°26'              | 6° 3'              | 3°55'              | 12°46'              | 8°19'              | 8°11'              | 15°14'              | 14°16'              | 19° 5'              | 10°42'              |
| T 29 | 20 26 39 | 6° 8'09"              | 27°44'                 | 14°57'                 | 5°45'               | 28° 6'              | 6° 2'              | 3°57'              | 12°44'              | 8°21'              | 8°12'              | 15°15'              | 14°12'              | 19°11'              | 10°41'              |
| F 30 | 20 30 36 | 7° 5'28"              | 10 <sup>h</sup> 6'     | 16°56'                 | 5°50'               | 28°45'              | 6° 2'              | 3°59'              | 12°41'              | 8°23'              | 8°13'              | 15°R16'             | 14° 9'              | 19°18'              | 10°40'              |
| S 31 | 20 34 32 | 8 <sup>h</sup> 2'48"  | 22 <sup>h</sup> 43'    | 18 <sup>h</sup> 52'    | 5 <sup>h</sup> 57'  | 29 <sup>h</sup> 24' | 6 <sup>h</sup> 1'  | 4 <sup>h</sup> 0'  | 12 <sup>h</sup> 39' | 8 <sup>h</sup> 25' | 8 <sup>h</sup> 14' | 15 <sup>h</sup> 16' | 14 <sup>h</sup> 6'  | 19 <sup>h</sup> 25' | 10 <sup>h</sup> 39' |

Delta T = 17m40s

AUGUST 2410

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                   | ♀                   | ♂                   | ♂                   | ♂                  | ♂                 | ♂                   | ♂                  | ♂                  | ♂                   | ♂                   | ♂                   | ♂                  |
|------|----------|-----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|-------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|--------------------|
| S 1  | 20 38 29 | 9 <sup>h</sup> 0'09"  | 5 <sup>h</sup> 23'  | 20 <sup>h</sup> 48' | 6 <sup>h</sup> 6'   | 0 <sup>h</sup> 3'   | 6°R 1              | 4 <sup>h</sup> 2' | 12°R37'             | 8 <sup>h</sup> 28' | 8 <sup>h</sup> 16' | 15°R15'             | 14 <sup>h</sup> 3'  | 19 <sup>h</sup> 31' | 10°R38'            |
| M 2  | 20 42 25 | 9°57'30"              | 18°48'              | 22°41'              | 6°17'               | 0°43'               | 6 <sup>h</sup> 0'  | 4° 3'             | 12 <sup>h</sup> 35' | 8°30'              | 8°17'              | 15 <sup>h</sup> 12' | 14° 0'              | 19°38'              | 10°Y37'            |
| T 3  | 20 46 22 | 10°54'52"             | 2 <sup>h</sup> 16'  | 24°33'              | 6°30'               | 1°22'               | 6°D 0              | 4° 5'             | 12°33'              | 8°32'              | 8°18'              | 15° 9'              | 13°57'              | 19°45'              | 10°36'             |
| W 4  | 20 50 19 | 11°52'14"             | 15°57'              | 26°23'              | 6°46'               | 2° 1'               | 6° 1'              | 4° 6'             | 12°31'              | 8°34'              | 8°20'              | 15° 5'              | 13°53'              | 19°52'              | 10°35'             |
| T 5  | 20 54 15 | 12°49'37"             | 29°50'              | 28°11'              | 7° 3'               | 2°40'               | 6° 1'              | 4° 7'             | 12°29'              | 8°37'              | 8°21'              | 15° 1'              | 13°50'              | 19°58'              | 10°34'             |
| F 6  | 20 58 12 | 13°47'00"             | 13 <sup>h</sup> 53' | 29°58'              | 7°22'               | 3°19'               | 6° 1'              | 4° 8'             | 12°27'              | 8°39'              | 8°22'              | 14°58'              | 13°47'              | 20° 5'              | 10°33'             |
| S 7  | 21 2 8   | 14°44'24"             | 28° 1'              | 1 <sup>h</sup> 42'  | 7°43'               | 3°58'               | 6° 2'              | 4° 9'             | 12°25'              | 8°41'              | 8°23'              | 14°56'              | 13°44'              | 20°12'              | 10°32'             |
| S 8  | 21 6 5   | 15°41'48"             | 12 <sup>h</sup> 12' | 3°26'               | 8° 5'               | 4°37'               | 6° 3'              | 4°10'             | 12°23'              | 8°43'              | 8°24'              | 14°D55'             | 13°41'              | 20°18'              | 10°30'             |
| M 9  | 21 10 1  | 16°39'13"             | 26°25'              | 5° 7'               | 8°30'               | 5°16'               | 6° 4'              | 4°11'             | 12°21'              | 8°45'              | 8°26'              | 14°55'              | 13°37'              | 20°25'              | 10°29'             |
| T 10 | 21 13 58 | 17°36'39"             | 10 <sup>h</sup> 36' | 6°47'               | 8°55'               | 5°55'               | 6° 5'              | 4°12'             | 12°19'              | 8°48'              | 8°27'              | 14°56'              | 13°34'              | 20°32'              | 10°28'             |
| W11  | 21 17 54 | 18°34'05"             | 24°44'              | 8°25'               | 9°23'               | 6°34'               | 6° 7'              | 4°12'             | 12°18'              | 8°50'              | 8°28'              | 14°58'              | 13°31'              | 20°38'              | 10°26'             |
| T 12 | 21 21 51 | 19°31'32"             | 8 <sup>h</sup> 47'  | 10° 2'              | 9°52'               | 7°13'               | 6° 8'              | 4°13'             | 12°16'              | 8°52'              | 8°29'              | 14°R59'             | 13°28'              | 20°45'              | 10°25'             |
| F 13 | 21 25 48 | 20°29'00"             | 22°43'              | 11°37'              | 10°22'              | 7°52'               | 6°10'              | 4°13'             | 12°14'              | 8°54'              | 8°30'              | 14°59'              | 13°25'              | 20°52'              | 10°23'             |
| S 14 | 21 29 44 | 21°26'28"             | 6 <sup>h</sup> 29'  | 13°10'              | 10°54'              | 8°31'               | 6°12'              | 4°13'             | 12°12'              | 8°56'              | 8°31'              | 14°57'              | 13°22'              | 20°58'              | 10°22'             |
| S 15 | 21 33 41 | 22°23'57"             | 20° 2'              | 14°42'              | 11°27'              | 9° 9'               | 6°14'              | 4°13'             | 12°11'              | 8°59'              | 8°32'              | 14°53'              | 13°18'              | 21° 5'              | 10°20'             |
| M16  | 21 37 37 | 23°21'28"             | 3 <sup>h</sup> 22'  | 16°12'              | 12° 2'              | 9°48'               | 6°17'              | 4°R14'            | 12° 9'              | 9° 1'              | 8°34'              | 14°48'              | 13°15'              | 21°12'              | 10°18'             |
| T 17 | 21 41 34 | 24°18'59"             | 16°22'              | 17°40'              | 12°38'              | 10°27'              | 6°19'              | 4°13'             | 12° 8'              | 9° 3'              | 8°35'              | 14°42'              | 13°12'              | 21°19'              | 10°17'             |
| W18  | 21 45 30 | 25°16'32"             | 29° 7'              | 19° 7'              | 13°15'              | 11° 6'              | 6°22'              | 4°13'             | 12° 6'              | 9° 5'              | 8°36'              | 14°35'              | 13° 9'              | 21°25'              | 10°15'             |
| T 19 | 21 49 27 | 26°14'06"             | 11 <sup>h</sup> 36' | 20°32'              | 13°53'              | 11°44'              | 6°25'              | 4°13'             | 12° 4'              | 9° 7'              | 8°37'              | 14°28'              | 13° 6'              | 21°32'              | 10°13'             |
| F 20 | 21 53 23 | 27°11'41"             | 23°50'              | 21°55'              | 14°32'              | 12°23'              | 6°28'              | 4°13'             | 12° 3'              | 9° 9'              | 8°38'              | 14°23'              | 13° 3'              | 21°39'              | 10°11'             |
| S 21 | 21 57 20 | 28° 9'17"             | 5 <sup>h</sup> 52'  | 23°16'              | 15°13'              | 13° 2'              | 6°31'              | 4°12'             | 12° 1'              | 9°11'              | 8°39'              | 14°18'              | 12°59'              | 21°45'              | 10° 9'             |
| S 22 | 22 1 17  | 29° 6'55"             | 17°47'              | 24°36'              | 15°54'              | 13°40'              | 6°34'              | 4°12'             | 12° 0'              | 9°14'              | 8°40'              | 14°16'              | 12°56'              | 21°52'              | 10° 7'             |
| M23  | 22 5 13  | 0 <sup>h</sup> 43'    | 29°38'              | 25°54'              | 16°37'              | 14°19'              | 6°38'              | 4°11'             | 11°59'              | 9°16'              | 8°41'              | 14°D15'             | 12°53'              | 21°59'              | 10° 5'             |
| T 24 | 22 9 10  | 1° 2'16"              | 11 <sup>h</sup> 31' | 27°10'              | 17°20'              | 14°58'              | 6°41'              | 4°10'             | 11°57'              | 9°18'              | 8°42'              | 14°15'              | 12°50'              | 22° 5'              | 10° 3'             |
| W25  | 22 13 6  | 1°59'59"              | 23°30'              | 28°24'              | 18° 4'              | 15°36'              | 6°45'              | 4° 9'             | 11°56'              | 9°20'              | 8°43'              | 14°17'              | 12°47'              | 22°12'              | 10° 1'             |
| T 26 | 22 17 3  | 2°57'43"              | 5 <sup>h</sup> 41'  | 29°36'              | 18°50'              | 16°15'              | 6°49'              | 4° 8'             | 11°55'              | 9°22'              | 8°44'              | 14°18'              | 12°43'              | 22°19'              | 9°59'              |
| F 27 | 22 20 59 | 3°55'29"              | 18° 8'              | 0 <sup>h</sup> 46'  | 19°36'              | 16°53'              | 6°54'              | 4° 7'             | 11°54'              | 9°24'              | 8°45'              | 14°R18'             | 12°40'              | 22°25'              | 9°57'              |
| S 28 | 22 24 56 | 4°53'17"              | 0 <sup>h</sup> 55'  | 1°53'               | 20°23'              | 17°32'              | 6°58'              | 4° 6'             | 11°53'              | 9°26'              | 8°45'              | 14°17'              | 12°37'              | 22°32'              | 9°55'              |
| S 29 | 22 28 52 | 5°51'06"              | 14° 3'              | 2°59'               | 21°11'              | 18°10'              | 7° 3'              | 4° 5'             | 11°51'              | 9°28'              | 8°46'              | 14°13'              | 12°34'              | 22°39'              | 9°53'              |
| M30  | 22 32 49 | 6°48'56"              | 27°34'              | 4° 2'               | 21°59'              | 18°49'              | 7° 7'              | 4° 3'             | 11°50'              | 9°30'              | 8°47'              | 14° 8'              | 12°31'              | 22°46'              | 9°50'              |
| T 31 | 22 36 46 | 7 <sup>h</sup> 46'48" | 11 <sup>h</sup> 26' | 5 <sup>h</sup> 3'   | 22 <sup>h</sup> 49' | 19 <sup>h</sup> 27' | 7 <sup>h</sup> 12' | 4 <sup>h</sup> 2' | 11 <sup>h</sup> 49' | 9 <sup>h</sup> 32' | 8 <sup>h</sup> 48' | 14 <sup>h</sup> 0'  | 12 <sup>h</sup> 28' | 22 <sup>h</sup> 52' | 9 <sup>h</sup> 48' |

Delta T = 17m41s

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SWISS EPHEMERIS for the year 2410

SEPTEMBER 2410

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♅     | ♁      | ♄     | ♁    | ♁      | ♁     | ♁     | ♁     |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|------|--------|-------|-------|-------|
| W 1  | 22 40 42 | 8♎44'41  | 25♎35 | 6♁ 1   | 23♁39 | 20♁ 5 | 7♁17  | 4°R 0 | 11°R48 | 9♁34  | 8♁49 | 13°R51 | 12♁24 | 22♁59 | 9°R46 |
| T 2  | 22 44 39 | 9°42'36  | 9♁56  | 6°56   | 24°30 | 20°44 | 7°22  | 3♁58  | 11♁47  | 9°36  | 8°50 | 13♁43  | 12°21 | 23° 6 | 9°Y44 |
| F 3  | 22 48 35 | 10°40'32 | 24°53 | 7°48   | 25°21 | 21°22 | 7°28  | 3°57  | 11°47  | 9°38  | 8°50 | 13°35  | 12°18 | 23°12 | 9°41  |
| S 4  | 22 52 32 | 11°38'29 | 8♎49  | 8°37   | 26°13 | 22° 0 | 7°33  | 3°55  | 11°46  | 9°40  | 8°51 | 13°29  | 12°15 | 23°19 | 9°39  |
| S 5  | 22 56 28 | 12°36'27 | 23°12 | 9°23   | 27° 6 | 22°39 | 7°39  | 3°53  | 11°45  | 9°42  | 8°52 | 13°25  | 12°12 | 23°26 | 9°36  |
| M 6  | 23 0 25  | 13°34'27 | 7♁26  | 10° 6  | 27°59 | 23°17 | 7°45  | 3°51  | 11°44  | 9°44  | 8°53 | 13°D24 | 12° 9 | 23°32 | 9°34  |
| T 7  | 23 4 21  | 14°32'29 | 21°30 | 10°44  | 28°53 | 23°55 | 7°51  | 3°49  | 11°43  | 9°46  | 8°53 | 13°24  | 12° 5 | 23°39 | 9°31  |
| W 8  | 23 8 18  | 15°30'31 | 5♁23  | 11°19  | 29°47 | 24°33 | 7°57  | 3°46  | 11°43  | 9°48  | 8°54 | 13°24  | 12° 2 | 23°46 | 9°29  |
| T 9  | 23 12 14 | 16°28'35 | 19° 6 | 11°49  | 0♁43  | 25°11 | 8° 3  | 3°44  | 11°42  | 9°50  | 8°55 | 13°R24 | 11°59 | 23°52 | 9°26  |
| F 10 | 23 16 11 | 17°26'40 | 2♁37  | 12°15  | 1°38  | 25°50 | 8° 9  | 3°41  | 11°42  | 9°52  | 8°55 | 13°23  | 11°56 | 23°59 | 9°24  |
| S 11 | 23 20 8  | 18°24'47 | 15°59 | 12°36  | 2°34  | 26°28 | 8°16  | 3°39  | 11°41  | 9°53  | 8°56 | 13°19  | 11°53 | 24° 6 | 9°21  |
| S 12 | 23 24 4  | 19°22'55 | 29° 9 | 12°52  | 3°31  | 27° 6 | 8°23  | 3°36  | 11°41  | 9°55  | 8°57 | 13°12  | 11°49 | 24°13 | 9°19  |
| M13  | 23 28 1  | 20°21'05 | 12♁ 7 | 13° 3  | 4°28  | 27°44 | 8°29  | 3°34  | 11°40  | 9°57  | 8°57 | 13° 3  | 11°46 | 24°19 | 9°16  |
| T 14 | 23 31 57 | 21°19'16 | 24°53 | 13°R 8 | 5°25  | 28°22 | 8°36  | 3°31  | 11°40  | 9°59  | 8°58 | 12°52  | 11°43 | 24°26 | 9°13  |
| W15  | 23 35 54 | 22°17'29 | 7°Y27 | 13° 7  | 6°23  | 29° 0 | 8°44  | 3°28  | 11°40  | 10° 0 | 8°58 | 12°39  | 11°40 | 24°33 | 9°11  |
| T 16 | 23 39 50 | 23°15'44 | 19°47 | 12°59  | 7°22  | 29°38 | 8°51  | 3°25  | 11°39  | 10° 2 | 8°59 | 12°27  | 11°37 | 24°39 | 9° 8  |
| F 17 | 23 43 47 | 24°14'01 | 1♁56  | 12°46  | 8°21  | 0♎16  | 8°58  | 3°22  | 11°39  | 10° 4 | 8°59 | 12°16  | 11°34 | 24°46 | 9° 5  |
| S 18 | 23 47 43 | 25°12'20 | 13°55 | 12°25  | 9°20  | 0°54  | 9° 6  | 3°19  | 11°39  | 10° 6 | 9° 0 | 12° 8  | 11°30 | 24°53 | 9° 3  |
| S 19 | 23 51 40 | 26°10'40 | 25°48 | 11°58  | 10°20 | 1°32  | 9°13  | 3°15  | 11°39  | 10° 7 | 9° 0 | 12° 1  | 11°27 | 24°59 | 9° 0  |
| M20  | 23 55 37 | 27° 9'03 | 7♎37  | 11°24  | 11°20 | 2°10  | 9°21  | 3°12  | 11°39  | 10° 9 | 9° 1 | 11°57  | 11°24 | 25° 6 | 8°57  |
| T 21 | 23 59 33 | 28° 7'28 | 19°27 | 10°44  | 12°20 | 2°48  | 9°29  | 3° 9  | 11°D39 | 10°11 | 9° 1 | 11°56  | 11°21 | 25°13 | 8°54  |
| W22  | 0 3 30   | 29° 5'55 | 1♁25  | 9°58   | 13°21 | 3°26  | 9°37  | 3° 5  | 11°39  | 10°12 | 9° 2 | 11°D55 | 11°18 | 25°19 | 8°52  |
| T 23 | 0 7 26   | 0♁ 4'25  | 13°34 | 9° 6   | 14°23 | 4° 4  | 9°45  | 3° 2  | 11°39  | 10°14 | 9° 2 | 11°R55 | 11°14 | 25°26 | 8°49  |
| F 24 | 0 11 23  | 1° 2'56  | 26° 1 | 8°10   | 15°24 | 4°41  | 9°53  | 2°58  | 11°39  | 10°15 | 9° 2 | 11°55  | 11°11 | 25°33 | 8°46  |
| S 25 | 0 15 19  | 2° 1'30  | 8♁50  | 7°10   | 16°26 | 5°19  | 10° 2 | 2°54  | 11°39  | 10°17 | 9° 3 | 11°52  | 11° 8 | 25°39 | 8°43  |
| S 26 | 0 19 16  | 3° 0'05  | 22° 5 | 6° 7   | 17°29 | 5°57  | 10°10 | 2°51  | 11°40  | 10°18 | 9° 3 | 11°48  | 11° 5 | 25°46 | 8°40  |
| M27  | 0 23 12  | 3°58'43  | 5♎47  | 5° 3   | 18°31 | 6°35  | 10°19 | 2°47  | 11°40  | 10°20 | 9° 3 | 11°40  | 11° 2 | 25°53 | 8°37  |
| T 28 | 0 27 9   | 4°57'23  | 19°45 | 3°59   | 19°34 | 7°13  | 10°28 | 2°43  | 11°40  | 10°21 | 9° 4 | 11°30  | 10°59 | 25°59 | 8°35  |
| W29  | 0 31 6   | 5°56'04  | 4♁25  | 2°56   | 20°38 | 7°50  | 10°37 | 2°39  | 11°41  | 10°23 | 9° 4 | 11°19  | 10°55 | 26° 6 | 8°32  |
| T 30 | 0 35 2   | 6♁54'48  | 19♁11 | 1♁58   | 21♁41 | 8♎28  | 10♁46 | 2♁35  | 11♁41  | 10♁24 | 9♁ 4 | 11♁ 7  | 10♁52 | 26♁13 | 8♎29  |

Delta T = 17m41s

OCTOBER 2410

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♅     | ♁     | ♄     | ♁     | ♁      | ♁     | ♁     | ♁     |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| F 1  | 0 38 59 | 7♁53'33  | 4♎ 4  | 1°R 4  | 22♁45 | 9♎ 6  | 10♁55 | 2°R31 | 11♁42 | 10♁26 | 9♁ 4  | 10°R57 | 10♁49 | 26♁20 | 8°R26 |
| S 2  | 0 42 55 | 8°52'21  | 18°55 | 0♁16   | 23°49 | 9°43  | 11° 4 | 2♁27  | 11°42 | 10°27 | 9° 4  | 10♁48  | 10°46 | 26°26 | 8°Y23 |
| S 3  | 0 46 52 | 9°51'10  | 3♁36  | 29♎37  | 24°53 | 10°21 | 11°14 | 2°23  | 11°43 | 10°28 | 9° 5  | 10°43  | 10°43 | 26°33 | 8°20  |
| M 4  | 0 50 48 | 10°50'01 | 18° 3 | 29° 5  | 25°58 | 10°59 | 11°23 | 2°18  | 11°43 | 10°30 | 9° 5  | 10°40  | 10°40 | 26°40 | 8°18  |
| T 5  | 0 54 45 | 11°48'54 | 2♁11  | 28°44  | 27° 3 | 11°36 | 11°33 | 2°14  | 11°44 | 10°31 | 9° 5  | 10°39  | 10°36 | 26°46 | 8°15  |
| W 6  | 0 58 41 | 12°47'48 | 16° 2 | 28°32  | 28° 8 | 12°14 | 11°42 | 2°10  | 11°45 | 10°32 | 9° 5  | 10°39  | 10°33 | 26°53 | 8°12  |
| T 7  | 1 2 38  | 13°46'44 | 29°34 | 28°D31 | 29°14 | 12°52 | 11°52 | 2° 5  | 11°46 | 10°33 | 9° 5  | 10°38  | 10°30 | 27° 0 | 8° 9  |
| F 8  | 1 6 35  | 14°45'42 | 12♁51 | 28°40  | 0♎19  | 13°29 | 12° 2 | 2° 1  | 11°47 | 10°35 | 9° 5  | 10°36  | 10°27 | 27° 6 | 8° 6  |
| S 9  | 1 10 31 | 15°44'42 | 25°54 | 28°59  | 1°25  | 14° 7 | 12°12 | 1°57  | 11°48 | 10°36 | 9°R 5 | 10°31  | 10°24 | 27°13 | 8° 4  |
| S 10 | 1 14 28 | 16°43'43 | 8♁44  | 29°27  | 2°31  | 14°44 | 12°22 | 1°52  | 11°49 | 10°37 | 9° 5  | 10°24  | 10°20 | 27°20 | 8° 1  |
| M11  | 1 18 24 | 17°42'46 | 21°24 | 0♁ 6   | 3°38  | 15°22 | 12°32 | 1°48  | 11°50 | 10°38 | 9° 5  | 10°13  | 10°17 | 27°26 | 7°58  |
| T 12 | 1 22 21 | 18°41'51 | 3°Y53 | 0°53   | 4°44  | 15°59 | 12°43 | 1°43  | 11°51 | 10°39 | 9° 5  | 10° 1  | 10°14 | 27°33 | 7°55  |
| W13  | 1 26 17 | 19°40'58 | 16°12 | 1°48   | 5°51  | 16°36 | 12°53 | 1°38  | 11°52 | 10°40 | 9° 5  | 9°47   | 10°11 | 27°40 | 7°52  |
| T 14 | 1 30 14 | 20°40'06 | 28°22 | 2°50   | 6°58  | 17°14 | 13° 3 | 1°34  | 11°53 | 10°41 | 9° 5  | 9°33   | 10° 8 | 27°46 | 7°50  |
| F 15 | 1 34 10 | 21°39'17 | 10♁23 | 3°59   | 8° 6  | 17°51 | 13°14 | 1°29  | 11°54 | 10°42 | 9° 5  | 9°21   | 10° 5 | 27°53 | 7°47  |
| S 16 | 1 38 7  | 22°38'30 | 22°18 | 5°13   | 9°13  | 18°28 | 13°25 | 1°24  | 11°55 | 10°43 | 9° 5  | 9°10   | 10° 1 | 28° 0 | 7°44  |
| S 17 | 1 42 3  | 23°37'46 | 4♎ 7  | 6°33   | 10°21 | 19° 6 | 13°35 | 1°20  | 11°57 | 10°44 | 9° 4  | 9° 3   | 9°58  | 28° 6 | 7°41  |
| M18  | 1 46 0  | 24°37'03 | 15°55 | 7°58   | 11°29 | 19°43 | 13°46 | 1°15  | 11°58 | 10°45 | 9° 4  | 8°58   | 9°55  | 28°13 | 7°39  |
| T 19 | 1 49 57 | 25°36'23 | 27°44 | 9°26   | 12°37 | 20°20 | 13°57 | 1°10  | 11°59 | 10°46 | 9° 4  | 8°55   | 9°52  | 28°20 | 7°36  |
| W20  | 1 53 53 | 26°35'45 | 9♁40  | 10°57  | 13°45 | 20°58 | 14° 8 | 1° 6  | 12° 1 | 10°46 | 9° 4  | 8°D55  | 9°49  | 28°26 | 7°33  |
| T 21 | 1 57 50 | 27°35'09 | 21°47 | 12°31  | 14°53 | 21°35 | 14°19 | 1° 1  | 12° 2 | 10°47 | 9° 3  | 8°R55  | 9°46  | 28°33 | 7°31  |
| F 22 | 2 1 46  | 28°34'36 | 4♁10  | 14° 7  | 16° 2 | 22°12 | 14°31 | 0°56  | 12° 4 | 10°48 | 9° 3  | 8°55   | 9°42  | 28°40 | 7°28  |
| S 23 | 2 5 43  | 29°34'05 | 16°56 | 15°44  | 17°11 | 22°49 | 14°42 | 0°51  | 12° 6 | 10°49 | 9° 3  | 8°54   | 9°39  | 28°46 | 7°26  |
| S 24 | 2 9 39  | 0♎33'36  | 0♎ 8  | 17°24  | 18°20 | 23°27 | 14°53 | 0°46  | 12° 7 | 10°49 | 9° 3  | 8°50   | 9°36  | 28°53 | 7°23  |
| M25  | 2 13 36 | 1°33'10  | 13°49 | 19° 4  | 19°29 | 24° 4 | 15° 5 | 0°42  | 12° 9 | 10°50 | 9° 2  | 8°44   | 9°33  | 29° 0 | 7°21  |
| T 26 | 2 17 32 | 2°32'45  | 27°59 | 20°45  | 20°38 | 24°41 | 15°16 | 0°37  | 12°11 | 10°51 | 9° 2  | 8°36   | 9°30  | 29° 7 | 7°18  |
| W27  | 2 21 29 | 3°32'23  | 12♁37 | 22°26  | 21°48 | 25°18 | 15°28 | 0°32  | 12°12 | 10°51 | 9° 2  | 8°26   | 9°26  | 29°13 | 7°16  |
| T 28 | 2 25 26 | 4°32'03  | 27°35 | 24° 8  | 22°57 | 25°55 | 15°39 | 0°27  | 12°14 | 10°52 | 9° 1  | 8°16   | 9°23  | 29°20 | 7°13  |
| F 29 | 2 29 22 | 5°31'45  | 12♎45 | 25°50  | 24° 7 | 26°32 | 15°51 | 0°23  | 12°16 | 10°52 | 9° 1  | 8° 7   | 9°20  | 29°27 | 7°11  |
| S 30 | 2 33 19 | 6°31'29  | 27°56 | 27°32  | 25°17 | 27° 9 | 16° 3 | 0°18  | 12°18 | 10°53 | 9° 0  | 8° 0   | 9°17  | 29°33 | 7° 8  |
| S 31 | 2 37 15 | 7♎31'14  | 12♁59 | 29♁13  | 26♎27 | 27♎46 | 16♁15 | 0♁13  | 12♁20 | 10♁53 | 9♁ 0  | 7♁55   | 9♁14  | 29♁40 | 7♎ 6  |

Delta T = 17m41s

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SWISS EPHEMERIS for the year 2410

NOVEMBER 2410

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♅      | ♁     | ♄      | ♁     | ♁     | ♁    | ♁     | ♁     |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|------|-------|-------|
| M 1  | 2 41 12 | 8♁31'02  | 27♂44 | 0♁55  | 27♁37 | 28♁23 | 16♂27 | 0°R 8  | 12♁22 | 10♁54  | 8°R59 | 7°R52 | 9♁11 | 29♂47 | 7°R 4 |
| T 2  | 2 45 8  | 9°30'52  | 12♁7  | 2°37  | 28°47 | 29° 0 | 16°39 | 0♁ 4   | 12°24 | 10°54  | 8°59  | 7°D52 | 9° 7 | 29°53 | 7°Y 1 |
| W 3  | 2 49 5  | 10°30'43 | 26° 5 | 4°18  | 29°58 | 29°37 | 16°51 | 29°Y59 | 12°26 | 10°55  | 8°58  | 7°E53 | 9° 4 | 0♁ 0  | 6°59  |
| T 4  | 2 53 1  | 11°30'35 | 9♁40  | 5°59  | 1♁ 8  | 0♁14  | 17° 3 | 29°54  | 12°28 | 10°55  | 8°58  | 7°R53 | 9° 1 | 0° 7  | 6°57  |
| F 5  | 2 56 58 | 12°30'29 | 22°54 | 7°39  | 2°19  | 0°51  | 17°15 | 29°50  | 12°31 | 10°55  | 8°57  | 7°53  | 8°58 | 0°13  | 6°55  |
| S 6  | 3 0 55  | 13°30'25 | 5♁48  | 9°19  | 3°30  | 1°28  | 17°27 | 29°45  | 12°33 | 10°56  | 8°57  | 7°50  | 8°55 | 0°20  | 6°53  |
| S 7  | 3 4 51  | 14°30'22 | 18°27 | 10°59 | 4°41  | 2° 5  | 17°40 | 29°41  | 12°35 | 10°56  | 8°56  | 7°46  | 8°51 | 0°27  | 6°51  |
| M 8  | 3 8 48  | 15°30'21 | 0°Y52 | 12°38 | 5°52  | 2°42  | 17°52 | 29°36  | 12°37 | 10°56  | 8°55  | 7°38  | 8°48 | 0°33  | 6°48  |
| T 9  | 3 12 44 | 16°30'22 | 13° 7 | 14°16 | 7° 3  | 3°18  | 18° 5 | 29°32  | 12°40 | 10°56  | 8°55  | 7°30  | 8°45 | 0°40  | 6°46  |
| W10  | 3 16 41 | 17°30'24 | 25°14 | 15°55 | 8°15  | 3°55  | 18°17 | 29°27  | 12°42 | 10°56  | 8°54  | 7°20  | 8°42 | 0°47  | 6°44  |
| T 11 | 3 20 37 | 18°30'28 | 7♁14  | 17°33 | 9°26  | 4°32  | 18°30 | 29°23  | 12°45 | 10°56  | 8°53  | 7°10  | 8°39 | 0°53  | 6°43  |
| F 12 | 3 24 34 | 19°30'34 | 19° 8 | 19°10 | 10°37 | 5° 8  | 18°42 | 29°19  | 12°47 | 10°56  | 8°53  | 7° 1  | 8°36 | 1° 0  | 6°41  |
| S 13 | 3 28 30 | 20°30'42 | 0♁59  | 20°47 | 11°49 | 5°45  | 18°55 | 29°14  | 12°49 | 10°R56 | 8°52  | 6°54  | 8°32 | 1° 7  | 6°39  |
| S 14 | 3 32 27 | 21°30'52 | 12°48 | 22°24 | 13° 1 | 6°22  | 19° 8 | 29°10  | 12°52 | 10°56  | 8°51  | 6°49  | 8°29 | 1°13  | 6°37  |
| M15  | 3 36 24 | 22°31'03 | 24°36 | 24° 0 | 14°13 | 6°58  | 19°20 | 29° 6  | 12°55 | 10°56  | 8°50  | 6°46  | 8°26 | 1°20  | 6°35  |
| T 16 | 3 40 20 | 23°31'17 | 6♁28  | 25°36 | 15°25 | 7°35  | 19°33 | 29° 2  | 12°57 | 10°56  | 8°50  | 6°D45 | 8°23 | 1°27  | 6°34  |
| W17  | 3 44 17 | 24°31'32 | 18°26 | 27°11 | 16°37 | 8°12  | 19°46 | 28°58  | 13° 0 | 10°56  | 8°49  | 6°45  | 8°20 | 1°33  | 6°32  |
| T 18 | 3 48 13 | 25°31'49 | 0♁34  | 28°46 | 17°49 | 8°48  | 19°59 | 28°54  | 13° 3 | 10°56  | 8°48  | 6°47  | 8°17 | 1°40  | 6°30  |
| F 19 | 3 52 10 | 26°32'08 | 12°56 | 0♁21  | 19° 1 | 9°25  | 20°12 | 28°50  | 13° 5 | 10°56  | 8°47  | 6°48  | 8°13 | 1°47  | 6°29  |
| S 20 | 3 56 6  | 27°32'30 | 25°38 | 1°56  | 20°13 | 10° 1 | 20°25 | 28°46  | 13° 8 | 10°56  | 8°46  | 6°R49 | 8°10 | 1°53  | 6°27  |
| S 21 | 4 0 3   | 28°32'53 | 8♁44  | 3°30  | 21°26 | 10°38 | 20°38 | 28°42  | 13°11 | 10°55  | 8°45  | 6°49  | 8° 7 | 2° 0  | 6°26  |
| M22  | 4 3 59  | 29°33'17 | 22°16 | 5° 4  | 22°38 | 11°14 | 20°51 | 28°38  | 13°14 | 10°55  | 8°44  | 6°47  | 8° 4 | 2° 7  | 6°24  |
| T 23 | 4 7 56  | 0♁33'44  | 6♁17  | 6°38  | 23°51 | 11°50 | 21° 4 | 28°35  | 13°16 | 10°55  | 8°44  | 6°43  | 8° 1 | 2°13  | 6°23  |
| W24  | 4 11 53 | 1°34'13  | 20°46 | 8°11  | 25° 4 | 12°27 | 21°17 | 28°31  | 13°19 | 10°54  | 8°43  | 6°38  | 7°57 | 2°20  | 6°22  |
| T 25 | 4 15 49 | 2°34'43  | 5♁39  | 9°44  | 26°17 | 13° 3 | 21°30 | 28°27  | 13°22 | 10°54  | 8°42  | 6°33  | 7°54 | 2°27  | 6°20  |
| F 26 | 4 19 46 | 3°35'15  | 20°49 | 11°18 | 27°29 | 13°40 | 21°43 | 28°24  | 13°25 | 10°54  | 8°41  | 6°28  | 7°51 | 2°33  | 6°19  |
| S 27 | 4 23 42 | 4°35'49  | 6♁ 5  | 12°50 | 28°42 | 14°16 | 21°57 | 28°21  | 13°28 | 10°53  | 8°40  | 6°24  | 7°48 | 2°40  | 6°18  |
| S 28 | 4 27 39 | 5°36'25  | 21°18 | 14°23 | 29°55 | 14°52 | 22°10 | 28°17  | 13°31 | 10°53  | 8°39  | 6°22  | 7°45 | 2°47  | 6°17  |
| M29  | 4 31 35 | 6°37'01  | 6♁18  | 15°55 | 1♁ 8  | 15°28 | 22°23 | 28°14  | 13°34 | 10°52  | 8°38  | 6°D21 | 7°42 | 2°53  | 6°16  |
| T 30 | 4 35 32 | 7♁37'40  | 20♁56 | 17♁28 | 2♁22  | 16♁ 4 | 22♁37 | 28°Y11 | 13♁37 | 10♁52  | 8♁37  | 6♁21  | 7♁38 | 3♁ 0  | 6°Y15 |

Delta T = 17m42s

DECEMBER 2410

00:00 UT

| Day  | Sid.t   | ☉        | ☽      | ♀     | ♁     | ♂     | ♃     | ♅      | ♁     | ♄      | ♁     | ♁     | ♁    | ♁    | ♁     |
|------|---------|----------|--------|-------|-------|-------|-------|--------|-------|--------|-------|-------|------|------|-------|
| W 1  | 4 39 29 | 8♁38'19  | 5♁ 9   | 19♁ 0 | 3♁35  | 16♁41 | 22♁50 | 28°R 8 | 13♁40 | 10°R51 | 8°R36 | 6♁23  | 7♁35 | 3♁ 7 | 6°R14 |
| T 2  | 4 43 25 | 9°38'59  | 18°55  | 20°32 | 4°48  | 17°17 | 23° 3 | 28°Y 5 | 13°44 | 10°R51 | 8°E35 | 6°24  | 7°32 | 3°13 | 6°Y13 |
| F 3  | 4 47 22 | 10°39'40 | 2♁15   | 22° 3 | 6° 1  | 17°53 | 23°17 | 28° 2  | 13°47 | 10°50  | 8°34  | 6°26  | 7°29 | 3°20 | 6°12  |
| S 4  | 4 51 18 | 11°40'23 | 15°12  | 23°35 | 7°15  | 18°29 | 23°30 | 27°59  | 13°50 | 10°49  | 8°33  | 6°R26 | 7°26 | 3°27 | 6°11  |
| S 5  | 4 55 15 | 12°41'06 | 27°48  | 25° 6 | 8°28  | 19° 5 | 23°44 | 27°57  | 13°53 | 10°49  | 8°32  | 6°25  | 7°23 | 3°33 | 6°11  |
| M 6  | 4 59 11 | 13°41'50 | 10°Y 8 | 26°37 | 9°42  | 19°41 | 23°57 | 27°54  | 13°56 | 10°48  | 8°31  | 6°23  | 7°19 | 3°40 | 6°10  |
| T 7  | 5 3 8   | 14°42'35 | 22°15  | 28° 8 | 10°55 | 20°17 | 24°11 | 27°51  | 13°59 | 10°47  | 8°30  | 6°20  | 7°16 | 3°47 | 6° 9  |
| W 8  | 5 7 4   | 15°43'22 | 4♁14   | 29°38 | 12° 9 | 20°52 | 24°24 | 27°49  | 14° 3 | 10°46  | 8°28  | 6°16  | 7°13 | 3°53 | 6° 9  |
| T 9  | 5 11 1  | 16°44'09 | 16° 7  | 1♁ 9  | 13°22 | 21°28 | 24°38 | 27°47  | 14° 6 | 10°45  | 8°27  | 6°13  | 7°10 | 4° 0 | 6° 8  |
| F 10 | 5 14 57 | 17°44'57 | 27°57  | 2°39  | 14°36 | 22° 4 | 24°51 | 27°45  | 14° 9 | 10°45  | 8°26  | 6°10  | 7° 7 | 4° 7 | 6° 8  |
| S 11 | 5 18 54 | 18°45'47 | 9♁46   | 4° 8  | 15°50 | 22°40 | 25° 5 | 27°42  | 14°13 | 10°44  | 8°25  | 6° 7  | 7° 3 | 4°13 | 6° 7  |
| S 12 | 5 22 51 | 19°46'37 | 21°36  | 5°37  | 17° 4 | 23°16 | 25°18 | 27°40  | 14°16 | 10°43  | 8°24  | 6° 6  | 7° 0 | 4°20 | 6° 7  |
| M13  | 5 26 47 | 20°47'29 | 3♁30   | 7° 6  | 18°18 | 23°51 | 25°32 | 27°38  | 14°19 | 10°42  | 8°23  | 6°D 5 | 6°57 | 4°27 | 6° 7  |
| T 14 | 5 30 44 | 21°48'22 | 15°30  | 8°34  | 19°31 | 24°27 | 25°45 | 27°37  | 14°23 | 10°41  | 8°22  | 6° 5  | 6°54 | 4°33 | 6° 7  |
| W15  | 5 34 40 | 22°49'16 | 27°37  | 10° 1 | 20°45 | 25° 2 | 25°59 | 27°35  | 14°26 | 10°40  | 8°21  | 6° 6  | 6°51 | 4°40 | 6° 6  |
| T 16 | 5 38 37 | 23°50'10 | 9♁53   | 11°27 | 21°59 | 25°38 | 26°13 | 27°33  | 14°30 | 10°39  | 8°19  | 6° 7  | 6°48 | 4°47 | 6° 6  |
| F 17 | 5 42 33 | 24°51'06 | 22°23  | 12°52 | 23°13 | 26°14 | 26°26 | 27°32  | 14°33 | 10°38  | 8°18  | 6° 9  | 6°44 | 4°53 | 6°D 6 |
| S 18 | 5 46 30 | 25°52'04 | 5♁ 8   | 14°16 | 24°28 | 26°49 | 26°40 | 27°30  | 14°36 | 10°37  | 8°17  | 6°10  | 6°41 | 5° 0 | 6° 6  |
| S 19 | 5 50 27 | 26°53'02 | 18°12  | 15°39 | 25°42 | 27°24 | 26°53 | 27°29  | 14°40 | 10°36  | 8°16  | 6°10  | 6°38 | 5° 7 | 6° 6  |
| M20  | 5 54 23 | 27°54'01 | 1♁38   | 17° 0 | 26°56 | 28° 0 | 27° 7 | 27°28  | 14°43 | 10°34  | 8°15  | 6°R10 | 6°35 | 5°13 | 6° 6  |
| T 21 | 5 58 20 | 28°55'01 | 15°26  | 18°19 | 28°10 | 28°35 | 27°21 | 27°27  | 14°47 | 10°33  | 8°14  | 6°10  | 6°32 | 5°20 | 6° 7  |
| W22  | 6 2 16  | 29°56'03 | 29°39  | 19°36 | 29°24 | 29°10 | 27°34 | 27°26  | 14°50 | 10°32  | 8°12  | 6° 9  | 6°29 | 5°27 | 6° 7  |
| T 23 | 6 6 13  | 0♁57'05  | 14♁12  | 20°50 | 0♁39  | 29°46 | 27°48 | 27°25  | 14°54 | 10°31  | 8°11  | 6° 9  | 6°25 | 5°33 | 6° 7  |
| F 24 | 6 10 9  | 1°58'09  | 29° 4  | 22° 1 | 1°53  | 0♁21  | 28° 2 | 27°24  | 14°57 | 10°30  | 8°10  | 6° 8  | 6°22 | 5°40 | 6° 8  |
| S 25 | 6 14 6  | 2°59'13  | 14♁ 6  | 23° 8 | 3° 7  | 0°56  | 28°15 | 27°24  | 15° 1 | 10°28  | 8° 9  | 6° 8  | 6°19 | 5°47 | 6° 8  |
| S 26 | 6 18 2  | 4° 0'18  | 29°11  | 24°12 | 4°22  | 1°31  | 28°29 | 27°23  | 15° 4 | 10°27  | 8° 8  | 6°D 8 | 6°16 | 5°53 | 6° 8  |
| M27  | 6 21 59 | 5° 1'24  | 14♁10  | 25°10 | 5°36  | 2° 6  | 28°42 | 27°23  | 15° 8 | 10°26  | 8° 6  | 6° 8  | 6°13 | 6° 0 | 6° 9  |
| T 28 | 6 25 56 | 6° 2'31  | 28°54  | 26° 3 | 6°51  | 2°41  | 28°56 | 27°22  | 15°12 | 10°25  | 8° 5  | 6°R 8 | 6° 9 | 6° 7 | 6°10  |
| W29  | 6 29 52 | 7° 3'37  | 13♁16  | 26°49 | 8° 5  | 3°16  | 29°10 | 27°22  | 15°15 | 10°23  | 8° 4  | 6° 8  | 6° 6 | 6°13 | 6°10  |
| T 30 | 6 33 49 | 8° 4'44  | 27°13  | 27°29 | 9°20  | 3°51  | 29°23 | 27°D22 | 15°19 | 10°22  | 8° 3  | 6° 7  | 6° 3 | 6°20 | 6°11  |
| F 31 | 6 37 45 | 9♁ 5'51  | 10♁43  | 28♁ 0 | 10♁34 | 4♁26  | 29♁37 | 27°Y22 | 15♁22 | 10♁21  | 8♁ 2  | 6♁ 7  | 6♁ 0 | 6♁27 | 6°Y12 |

Delta T = 17m42s

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