

SWISS EPHEMERIS for the year 2037

JANUARY 2037

00:00 UT

| Day  | Sid.t   | ☉         | ☽       | ♀      | ♁      | ♂      | ♃       | ♅      | ♁      | ♁      | ♁      | ♁      | ♁      | ♁      | ♁       | ♁ |
|------|---------|-----------|---------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|---|
| T 1  | 6 43 57 | 10°54'03  | 25°II56 | 25°R27 | 21°A44 | 7°A48  | 18°R39  | 2°R34  | 17°R52 | 24°R 4 | 19°A46 | 8°R11  | 9°II24 | 28°A50 | 14°R48  |   |
| F 2  | 6 47 54 | 11°55'11  | 10°E27  | 25°A 3 | 22°59  | 8°30   | 18°II32 | 2°II31 | 17°E49 | 24°Y 4 | 19°48  | 8°II 8 | 9°21   | 28°57  | 14°II45 |   |
| S 3  | 6 51 50 | 12°56'19  | 25°12   | 24°49  | 24°14  | 9°12   | 18°25   | 2°29   | 17°46  | 24° 4  | 19°49  | 8° 6   | 9°17   | 29° 4  | 14°42   |   |
| S 4  | 6 55 47 | 13°57'27  | 10°II 2 | 24°D45 | 25°30  | 9°54   | 18°18   | 2°27   | 17°44  | 24°D 4 | 19°51  | 8°D 6  | 9°14   | 29°10  | 14°39   |   |
| M 5  | 6 59 44 | 14°58'35  | 24°50   | 24°50  | 26°45  | 10°36  | 18°12   | 2°25   | 17°41  | 24° 4  | 19°52  | 8° 6   | 9°11   | 29°17  | 14°36   |   |
| T 6  | 7 3 40  | 15°59'43  | 9°II30  | 25° 3  | 28° 0  | 11°18  | 18° 5   | 2°22   | 17°39  | 24° 4  | 19°54  | 8° 8   | 9° 8   | 29°24  | 14°33   |   |
| W 7  | 7 7 37  | 17° 0'51  | 23°57   | 25°24  | 29°15  | 12° 0  | 17°59   | 2°19   | 17°36  | 24° 4  | 19°55  | 8° 9   | 9° 5   | 29°30  | 14°30   |   |
| T 8  | 7 11 33 | 18° 2'00  | 8°A 7   | 25°51  | 0°E31  | 12°42  | 17°53   | 2°17   | 17°33  | 24° 4  | 19°57  | 8°10   | 9° 2   | 29°37  | 14°27   |   |
| F 9  | 7 15 30 | 19° 3'08  | 21°59   | 26°25  | 1°46   | 13°24  | 17°47   | 2°14   | 17°31  | 24° 4  | 19°58  | 8°R10  | 8°58   | 29°44  | 14°25   |   |
| S 10 | 7 19 26 | 20° 4'17  | 5°II33  | 27° 5  | 3° 1   | 14° 6  | 17°41   | 2°11   | 17°28  | 24° 4  | 20° 0  | 8°10   | 8°55   | 29°50  | 14°22   |   |
| S 11 | 7 23 23 | 21° 5'26  | 18°51   | 27°50  | 4°16   | 14°48  | 17°35   | 2° 8   | 17°26  | 24° 5  | 20° 1  | 8° 8   | 8°52   | 29°57  | 14°19   |   |
| M12  | 7 27 19 | 22° 6'35  | 1°A52   | 28°39  | 5°32   | 15°30  | 17°30   | 2° 5   | 17°23  | 24° 5  | 20° 3  | 8° 6   | 8°49   | 0°A 4  | 14°17   |   |
| T 13 | 7 31 16 | 23° 7'43  | 14°39   | 29°32  | 6°47   | 16°12  | 17°25   | 2° 2   | 17°20  | 24° 5  | 20° 5  | 8° 4   | 8°46   | 0°10   | 14°14   |   |
| W14  | 7 35 13 | 24° 8'52  | 27°13   | 0°E29  | 8° 2   | 16°55  | 17°19   | 1°59   | 17°18  | 24° 6  | 20° 6  | 8° 2   | 8°43   | 0°17   | 14°11   |   |
| T 15 | 7 39 9  | 25°10'00  | 9°E35   | 1°29   | 9°17   | 17°37  | 17°14   | 1°55   | 17°15  | 24° 6  | 20° 8  | 8° 0   | 8°39   | 0°23   | 14° 9   |   |
| F 16 | 7 43 6  | 26°11'08  | 21°47   | 2°33   | 10°33  | 18°19  | 17° 9   | 1°52   | 17°13  | 24° 6  | 20°10  | 7°59   | 8°36   | 0°30   | 14° 7   |   |
| S 17 | 7 47 2  | 27°12'15  | 3°A49   | 3°38   | 11°48  | 19° 2  | 17° 5   | 1°48   | 17°10  | 24° 7  | 20°11  | 7°D58  | 8°33   | 0°37   | 14° 4   |   |
| S 18 | 7 50 59 | 28°13'22  | 15°45   | 4°46   | 13° 3  | 19°44  | 17° 0   | 1°45   | 17° 8  | 24° 7  | 20°13  | 7°58   | 8°30   | 0°43   | 14° 2   |   |
| M19  | 7 54 55 | 29°14'28  | 27°35   | 5°57   | 14°18  | 20°26  | 16°56   | 1°41   | 17° 5  | 24° 8  | 20°15  | 7°59   | 8°27   | 0°50   | 14° 0   |   |
| T 20 | 7 58 52 | 0°A55'34  | 9°A22   | 7° 9   | 15°34  | 21° 9  | 16°52   | 1°38   | 17° 3  | 24° 8  | 20°16  | 7°59   | 8°23   | 0°57   | 13°58   |   |
| W21  | 8 2 48  | 1°16'39   | 21°10   | 8°23   | 16°49  | 21°51  | 16°48   | 1°34   | 17° 0  | 24° 9  | 20°18  | 8° 0   | 8°20   | 1° 3   | 13°56   |   |
| T 22 | 8 6 45  | 2°17'42   | 3°Y 2   | 9°38   | 18° 4  | 22°34  | 16°44   | 1°30   | 16°58  | 24°10  | 20°20  | 8° 1   | 8°17   | 1°10   | 13°54   |   |
| F 23 | 8 10 42 | 3°18'45   | 15° 2   | 10°55  | 19°19  | 23°16  | 16°41   | 1°26   | 16°55  | 24°10  | 20°21  | 8° 2   | 8°14   | 1°17   | 13°52   |   |
| S 24 | 8 14 38 | 4°19'47   | 27°14   | 12°14  | 20°35  | 23°59  | 16°37   | 1°22   | 16°53  | 24°11  | 20°23  | 8° 2   | 8°11   | 1°23   | 13°50   |   |
| S 25 | 8 18 35 | 5°20'48   | 9°B44   | 13°34  | 21°50  | 24°41  | 16°34   | 1°18   | 16°50  | 24°12  | 20°25  | 8°R 2  | 8° 8   | 1°30   | 13°48   |   |
| M26  | 8 22 31 | 6°21'48   | 22°35   | 14°54  | 23° 5  | 25°24  | 16°31   | 1°14   | 16°48  | 24°12  | 20°27  | 8° 2   | 8° 4   | 1°37   | 13°46   |   |
| T 27 | 8 26 28 | 7°22'46   | 5°II50  | 16°16  | 24°20  | 26° 7  | 16°28   | 1°10   | 16°45  | 24°13  | 20°28  | 8° 2   | 8° 1   | 1°43   | 13°44   |   |
| W28  | 8 30 24 | 8°23'44   | 19°32   | 17°39  | 25°36  | 26°49  | 16°26   | 1° 5   | 16°43  | 24°14  | 20°30  | 8°D 2  | 7°58   | 1°50   | 13°43   |   |
| T 29 | 8 34 21 | 9°24'41   | 3°E42   | 19° 3  | 26°51  | 27°32  | 16°23   | 1° 1   | 16°41  | 24°15  | 20°32  | 8° 2   | 7°55   | 1°57   | 13°41   |   |
| F 30 | 8 38 17 | 10°25'36  | 18°17   | 20°28  | 28° 6  | 28°15  | 16°21   | 0°57   | 16°38  | 24°16  | 20°34  | 8° 2   | 7°52   | 2° 3   | 13°40   |   |
| S 31 | 8 42 14 | 11°A26'30 | 3°II12  | 21°E54 | 29°E21 | 28°A57 | 16°II19 | 0°II52 | 16°E36 | 24°Y17 | 20°A35 | 8°R 2  | 7°II49 | 2°A10  | 13°II38 |   |

Delta T = 107.75 sec.

FEBRUARY 2037

00:00 UT

| Day  | Sid.t    | ☉         | ☽       | ♀      | ♁     | ♂      | ♃       | ♅       | ♁      | ♁      | ♁      | ♁      | ♁      | ♁     | ♁       | ♁ |
|------|----------|-----------|---------|--------|-------|--------|---------|---------|--------|--------|--------|--------|--------|-------|---------|---|
| S 1  | 8 46 11  | 12°A27'24 | 18°II19 | 23°E21 | 0°A36 | 29°A40 | 16°R17  | 0°R48   | 16°R34 | 24°Y18 | 20°A37 | 8°R 2  | 7°II45 | 2°A17 | 13°R37  |   |
| M 2  | 8 50 7   | 13°28'16  | 3°II29  | 24°49  | 1°52  | 0°E23  | 16°II16 | 0°II43  | 16°E32 | 24°19  | 20°39  | 8°II 2 | 7°42   | 2°23  | 13°II36 |   |
| T 3  | 8 54 4   | 14°29'07  | 18°34   | 26°17  | 3° 7  | 1° 6   | 16°14   | 0°39    | 16°29  | 24°20  | 20°41  | 8° 1   | 7°39   | 2°30  | 13°35   |   |
| W 4  | 8 58 0   | 15°29'57  | 3°A23   | 27°47  | 4°22  | 1°49   | 16°13   | 0°34    | 16°27  | 24°21  | 20°42  | 8° 0   | 7°36   | 2°37  | 13°33   |   |
| T 5  | 9 1 57   | 16°30'47  | 17°52   | 29°17  | 5°37  | 2°32   | 16°12   | 0°30    | 16°25  | 24°22  | 20°44  | 7°59   | 7°33   | 2°43  | 13°32   |   |
| F 6  | 9 5 53   | 17°31'35  | 1°II56  | 0°A48  | 6°52  | 3°15   | 16°11   | 0°25    | 16°23  | 24°23  | 20°46  | 7°59   | 7°29   | 2°50  | 13°31   |   |
| S 7  | 9 9 50   | 18°32'23  | 15°35   | 2°20   | 8° 8  | 3°58   | 16°11   | 0°20    | 16°21  | 24°24  | 20°48  | 7°D58  | 7°26   | 2°57  | 13°30   |   |
| S 8  | 9 13 46  | 19°33'09  | 28°50   | 3°52   | 9°23  | 4°41   | 16°10   | 0°16    | 16°19  | 24°25  | 20°49  | 7°58   | 7°23   | 3° 3  | 13°30   |   |
| M 9  | 9 17 43  | 20°33'55  | 11°A43  | 5°25   | 10°38 | 5°24   | 16°D10  | 0°11    | 16°17  | 24°26  | 20°51  | 7°59   | 7°20   | 3°10  | 13°29   |   |
| T 10 | 9 21 40  | 21°34'40  | 24°18   | 7° 0   | 11°53 | 6° 7   | 16°10   | 0° 6    | 16°15  | 24°28  | 20°53  | 8° 0   | 7°17   | 3°17  | 13°28   |   |
| W11  | 9 25 36  | 22°35'24  | 6°E37   | 8°35   | 13° 8 | 6°50   | 16°11   | 0° 1    | 16°13  | 24°29  | 20°55  | 8° 2   | 7°14   | 3°23  | 13°28   |   |
| T 12 | 9 29 33  | 23°36'06  | 18°44   | 10°10  | 14°24 | 7°33   | 16°11   | 29°II57 | 16°11  | 24°30  | 20°57  | 8° 3   | 7°10   | 3°30  | 13°27   |   |
| F 13 | 9 33 29  | 24°36'48  | 0°A43   | 11°47  | 15°39 | 8°16   | 16°12   | 29°52   | 16° 9  | 24°31  | 20°58  | 8° 4   | 7° 7   | 3°37  | 13°27   |   |
| S 14 | 9 37 26  | 25°37'28  | 12°37   | 13°24  | 16°54 | 8°59   | 16°13   | 29°47   | 16° 7  | 24°33  | 21° 0  | 8°R 4  | 7° 4   | 3°43  | 13°26   |   |
| S 15 | 9 41 22  | 26°38'07  | 24°26   | 15° 3  | 18° 9 | 9°43   | 16°14   | 29°42   | 16° 5  | 24°34  | 21° 2  | 8° 3   | 7° 1   | 3°50  | 13°26   |   |
| M16  | 9 45 19  | 27°38'44  | 6°A14   | 16°42  | 19°24 | 10°26  | 16°15   | 29°37   | 16° 3  | 24°36  | 21° 4  | 8° 1   | 6°58   | 3°57  | 13°26   |   |
| T 17 | 9 49 15  | 28°39'19  | 18° 3   | 18°22  | 20°39 | 11° 9  | 16°16   | 29°32   | 16° 2  | 24°37  | 21° 5  | 7°58   | 6°55   | 4° 3  | 13°25   |   |
| W18  | 9 53 12  | 29°39'53  | 29°54   | 20° 3  | 21°54 | 11°52  | 16°18   | 29°27   | 16° 0  | 24°38  | 21° 7  | 7°54   | 6°51   | 4°10  | 13°25   |   |
| T 19 | 9 57 9   | 0°A40'26  | 11°Y51  | 21°44  | 23° 9 | 12°36  | 16°20   | 29°23   | 15°58  | 24°40  | 21° 9  | 7°50   | 6°48   | 4°17  | 13°D25  |   |
| F 20 | 10 1 5   | 1°40'57   | 23°54   | 23°27  | 24°25 | 13°19  | 16°22   | 29°18   | 15°57  | 24°41  | 21°11  | 7°47   | 6°45   | 4°23  | 13°25   |   |
| S 21 | 10 5 2   | 2°41'25   | 6°B 9   | 25°11  | 25°11 | 14° 3  | 16°24   | 29°13   | 15°55  | 24°43  | 21°12  | 7°43   | 6°42   | 4°30  | 13°26   |   |
| S 22 | 10 8 58  | 3°41'53   | 18°37   | 26°55  | 26°55 | 14°46  | 16°26   | 29° 8   | 15°54  | 24°44  | 21°14  | 7°41   | 6°39   | 4°36  | 13°26   |   |
| M23  | 10 12 55 | 4°42'18   | 1°II23  | 28°41  | 28°10 | 15°29  | 16°29   | 29° 3   | 15°52  | 24°46  | 21°16  | 7°D40  | 6°35   | 4°43  | 13°26   |   |
| T 24 | 10 16 51 | 5°42'41   | 14°29   | 0°A27  | 29°25 | 16°13  | 16°32   | 28°58   | 15°51  | 24°48  | 21°18  | 7°41   | 6°32   | 4°50  | 13°27   |   |
| W25  | 10 20 48 | 6°43'03   | 28° 0   | 2°15   | 0°A40 | 16°56  | 16°35   | 28°54   | 15°49  | 24°49  | 21°19  | 7°42   | 6°29   | 4°56  | 13°27   |   |
| T 26 | 10 24 44 | 7°43'22   | 11°E57  | 4° 3   | 1°55  | 17°40  | 16°38   | 28°49   | 15°48  | 24°51  | 21°21  | 7°43   | 6°26   | 5° 3  | 13°27   |   |
| F 27 | 10 28 41 | 8°43'40   | 26°20   | 5°53   | 3°10  | 18°23  | 16°42   | 28°44   | 15°47  | 24°53  | 21°23  | 7°45   | 6°23   | 5°10  | 13°28   |   |
| S 28 | 10 32 38 | 9°A43'55  | 11°II 7 | 7°A43  | 4°A25 | 19°E 7 | 16°II45 | 28°II39 | 15°E46 | 24°Y54 | 21°A25 | 7°R45  | 6°II20 | 5°A16 | 13°II29 |   |

Delta T = 107.88 sec.

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SWISS EPHEMERIS for the year 2037

MARCH 2037

00:00 UT

| Day  | Sid.t    | ☉         | ☽     | ♀      | ♁      | ♂     | ♃     | ♅      | ♁      | ♁      | ♁     | ♁     | ♁     | ♁     | ♁      |
|------|----------|-----------|-------|--------|--------|-------|-------|--------|--------|--------|-------|-------|-------|-------|--------|
| S 1  | 10 36 34 | 10♋44'09  | 26♌12 | 9♋34   | 5♋40   | 19♌51 | 16♌49 | 28°R35 | 15°R44 | 24°V56 | 21°26 | 7°R44 | 6♌16  | 5♋23  | 13♌30  |
| M 2  | 10 40 31 | 11°44'20  | 11♍28 | 11°26  | 6°55   | 20°34 | 16°53 | 28♌30  | 15°543 | 24°58  | 21°28 | 7♌41  | 6°13  | 5°30  | 13°30  |
| T 3  | 10 44 27 | 12°44'30  | 26°43 | 13°20  | 8°10   | 21°18 | 16°57 | 28°25  | 15°42  | 25° 0  | 21°30 | 7°37  | 6°10  | 5°36  | 13°31  |
| W 4  | 10 48 24 | 13°44'38  | 11♌48 | 15°14  | 9°25   | 22° 1 | 17° 1 | 28°21  | 15°41  | 25° 1  | 21°31 | 7°31  | 6° 7  | 5°43  | 13°32  |
| T 5  | 10 52 20 | 14°44'45  | 26°34 | 17° 8  | 10°40  | 22°45 | 17° 6 | 28°16  | 15°40  | 25° 3  | 21°33 | 7°26  | 6° 4  | 5°50  | 13°33  |
| F 6  | 10 56 17 | 15°44'50  | 10♌53 | 19° 4  | 11°55  | 23°29 | 17°10 | 28°12  | 15°39  | 25° 5  | 21°35 | 7°21  | 6° 0  | 5°56  | 13°34  |
| S 7  | 11 0 13  | 16°44'53  | 24°44 | 21° 0  | 13° 9  | 24°13 | 17°15 | 28° 7  | 15°38  | 25° 7  | 21°36 | 7°17  | 5°57  | 6° 3  | 13°36  |
| S 8  | 11 4 10  | 17°44'55  | 8♌ 5  | 22°57  | 14°24  | 24°56 | 17°20 | 28° 3  | 15°37  | 25° 9  | 21°38 | 7°15  | 5°54  | 6°10  | 13°37  |
| M 9  | 11 8 6   | 18°44'55  | 21° 0 | 24°54  | 15°39  | 25°40 | 17°25 | 27°58  | 15°37  | 25°11  | 21°40 | 7°D14 | 5°51  | 6°16  | 13°38  |
| T 10 | 11 12 3  | 19°44'54  | 3♌32  | 26°51  | 16°54  | 26°24 | 17°31 | 27°54  | 15°36  | 25°13  | 21°41 | 7°15  | 5°48  | 6°23  | 13°40  |
| W11  | 11 16 0  | 20°44'51  | 15°46 | 28°48  | 18° 9  | 27° 8 | 17°36 | 27°50  | 15°35  | 25°14  | 21°43 | 7°17  | 5°45  | 6°30  | 13°41  |
| T 12 | 11 19 56 | 21°44'46  | 27°47 | 0♌45   | 19°24  | 27°52 | 17°42 | 27°46  | 15°35  | 25°16  | 21°44 | 7°18  | 5°41  | 6°36  | 13°43  |
| F 13 | 11 23 53 | 22°44'40  | 9♌39  | 2°41   | 20°39  | 28°36 | 17°48 | 27°41  | 15°34  | 25°18  | 21°46 | 7°R18 | 5°38  | 6°43  | 13°44  |
| S 14 | 11 27 49 | 23°44'32  | 21°27 | 4°37   | 21°54  | 29°20 | 17°54 | 27°37  | 15°33  | 25°20  | 21°48 | 7°17  | 5°35  | 6°50  | 13°46  |
| S 15 | 11 31 46 | 24°44'22  | 3♋14  | 6°31   | 23° 8  | 0♌ 4  | 18° 0 | 27°33  | 15°33  | 25°22  | 21°49 | 7°14  | 5°32  | 6°56  | 13°48  |
| M16  | 11 35 42 | 25°44'10  | 15° 2 | 8°24   | 24°23  | 0°48  | 18° 6 | 27°29  | 15°33  | 25°24  | 21°51 | 7° 8  | 5°29  | 7° 3  | 13°50  |
| T 17 | 11 39 39 | 26°43'56  | 26°55 | 10°15  | 25°38  | 1°32  | 18°13 | 27°25  | 15°32  | 25°26  | 21°52 | 7° 0  | 5°26  | 7°10  | 13°52  |
| W18  | 11 43 35 | 27°43'40  | 8♌53  | 12° 3  | 26°53  | 2°16  | 18°19 | 27°21  | 15°32  | 25°28  | 21°54 | 6°51  | 5°22  | 7°16  | 13°54  |
| T 19 | 11 47 32 | 28°43'22  | 20°59 | 13°49  | 28° 7  | 3° 0  | 18°26 | 27°18  | 15°32  | 25°31  | 21°55 | 6°41  | 5°19  | 7°23  | 13°56  |
| F 20 | 11 51 29 | 29°43'02  | 3♌12  | 15°31  | 29°22  | 3°44  | 18°33 | 27°14  | 15°31  | 25°33  | 21°57 | 6°30  | 5°16  | 7°30  | 13°58  |
| S 21 | 11 55 25 | 0♌42'40   | 15°36 | 17°10  | 0♌37   | 4°28  | 18°40 | 27°10  | 15°31  | 25°35  | 21°58 | 6°22  | 5°13  | 7°36  | 14° 0  |
| S 22 | 11 59 22 | 1°42'16   | 28°11 | 18°44  | 1°52   | 5°12  | 18°47 | 27° 7  | 15°31  | 25°37  | 22° 0 | 6°15  | 5°10  | 7°43  | 14° 2  |
| M23  | 12 3 18  | 2°41'49   | 11♌ 0 | 20°14  | 3° 6   | 5°56  | 18°55 | 27° 3  | 15°D31 | 25°39  | 22° 1 | 6°10  | 5° 6  | 7°50  | 14° 5  |
| T 24 | 12 7 15  | 3°41'21   | 24° 5 | 21°38  | 4°21   | 6°40  | 19° 2 | 27° 0  | 15°31  | 25°41  | 22° 2 | 6° 8  | 5° 3  | 7°56  | 14° 7  |
| W25  | 12 11 11 | 4°40'50   | 7♌29  | 22°57  | 5°36   | 7°24  | 19°10 | 26°56  | 15°31  | 25°43  | 22° 4 | 6°D 7 | 5° 0  | 8° 3  | 14° 9  |
| T 26 | 12 15 8  | 5°40'16   | 21°13 | 24°10  | 6°50   | 8° 8  | 19°18 | 26°53  | 15°31  | 25°45  | 22° 5 | 6° 8  | 4°57  | 8°10  | 14°12  |
| F 27 | 12 19 4  | 6°39'41   | 5♌21  | 25°17  | 8° 5   | 8°52  | 19°25 | 26°50  | 15°31  | 25°47  | 22° 7 | 6°R 8 | 4°54  | 8°16  | 14°14  |
| S 28 | 12 23 1  | 7°39'03   | 19°50 | 26°17  | 9°19   | 9°36  | 19°34 | 26°47  | 15°32  | 25°50  | 22° 8 | 6° 8  | 4°51  | 8°23  | 14°17  |
| S 29 | 12 26 58 | 8°38'22   | 4♌39  | 27°11  | 10°34  | 10°21 | 19°42 | 26°44  | 15°32  | 25°52  | 22° 9 | 6° 5  | 4°47  | 8°30  | 14°20  |
| M30  | 12 30 54 | 9°37'40   | 19°41 | 27°57  | 11°48  | 11° 5 | 19°50 | 26°41  | 15°32  | 25°54  | 22°10 | 5°59  | 4°44  | 8°36  | 14°23  |
| T 31 | 12 34 51 | 10°V36'55 | 4♌48  | 28°V37 | 13°V 3 | 11°49 | 19°59 | 26°V38 | 15°33  | 25°V56 | 22°12 | 5°V51 | 4°V41 | 8°V43 | 14°V25 |

Delta T = 108.01 sec.

APRIL 2037

00:00 UT

| Day  | Sid.t    | ☉         | ☽     | ♀      | ♁      | ♂     | ♃      | ♅      | ♁      | ♁      | ♁     | ♁     | ♁     | ♁      | ♁      |
|------|----------|-----------|-------|--------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--------|--------|
| W 1  | 12 38 47 | 11°V36'08 | 19♌51 | 29°V 9 | 14°V17 | 12°33 | 20♌ 7  | 26°R36 | 15°533 | 25°V58 | 22°13 | 5°R42 | 4♌38  | 8♋50   | 14♌28  |
| T 2  | 12 42 44 | 12°35'19  | 4♌39  | 29°34  | 15°32  | 13°17 | 20°16  | 26♌33  | 15°34  | 26° 1  | 22°14 | 5♌31  | 4°35  | 8°56   | 14°31  |
| F 3  | 12 46 40 | 13°34'28  | 19° 5 | 29°52  | 16°46  | 14° 2 | 20°25  | 26°30  | 15°34  | 26° 3  | 22°16 | 5°22  | 4°32  | 9° 3   | 14°34  |
| S 4  | 12 50 37 | 14°33'36  | 3♌ 3  | 0♌ 3   | 18° 1  | 14°46 | 20°34  | 26°28  | 15°35  | 26° 5  | 22°17 | 5°14  | 4°28  | 9°10   | 14°37  |
| S 5  | 12 54 33 | 15°32'41  | 16°31 | 0°R 6  | 19°15  | 15°30 | 20°43  | 26°26  | 15°35  | 26° 7  | 22°18 | 5° 8  | 4°25  | 9°16   | 14°40  |
| M 6  | 12 58 30 | 16°31'45  | 29°32 | 0° 3   | 20°30  | 16°15 | 20°52  | 26°23  | 15°36  | 26°10  | 22°19 | 5° 5  | 4°22  | 9°23   | 14°44  |
| T 7  | 13 2 26  | 17°30'48  | 12♌ 7 | 29°V53 | 21°44  | 16°59 | 21° 1  | 26°21  | 15°37  | 26°12  | 22°20 | 5° 3  | 4°19  | 9°30   | 14°47  |
| W 8  | 13 6 23  | 18°29'48  | 24°23 | 29°36  | 22°58  | 17°43 | 21°11  | 26°19  | 15°38  | 26°14  | 22°21 | 5°D 3 | 4°16  | 9°36   | 14°50  |
| T 9  | 13 10 20 | 19°28'47  | 6♌23  | 29°14  | 24°13  | 18°27 | 21°20  | 26°17  | 15°39  | 26°16  | 22°22 | 5°R 4 | 4°12  | 9°43   | 14°53  |
| F 10 | 13 14 16 | 20°27'43  | 18°15 | 28°47  | 25°27  | 19°12 | 21°30  | 26°15  | 15°39  | 26°19  | 22°24 | 5° 3  | 4° 9  | 9°50   | 14°57  |
| S 11 | 13 18 13 | 21°26'39  | 0♌ 2  | 28°15  | 26°41  | 19°56 | 21°40  | 26°14  | 15°40  | 26°21  | 22°25 | 5° 0  | 4° 6  | 9°56   | 15° 0  |
| S 12 | 13 22 9  | 22°25'32  | 11°50 | 27°39  | 27°56  | 20°41 | 21°49  | 26°12  | 15°41  | 26°23  | 22°26 | 4°55  | 4° 3  | 10° 3  | 15° 4  |
| M13  | 13 26 6  | 23°24'23  | 23°41 | 27° 0  | 29°10  | 21°25 | 21°59  | 26°10  | 15°43  | 26°25  | 22°27 | 4°47  | 4° 0  | 10°10  | 15° 7  |
| T 14 | 13 30 2  | 24°23'13  | 5♌40  | 26°18  | 0♌24   | 22° 9 | 22° 9  | 26° 9  | 15°44  | 26°28  | 22°28 | 4°36  | 3°57  | 10°16  | 15°11  |
| W15  | 13 33 59 | 25°22'00  | 17°47 | 25°34  | 1°39   | 22°54 | 22°20  | 26° 8  | 15°45  | 26°30  | 22°29 | 4°24  | 3°53  | 10°23  | 15°15  |
| T 16 | 13 37 55 | 26°20'46  | 0♌ 5  | 24°50  | 2°53   | 23°38 | 22°30  | 26° 6  | 15°46  | 26°32  | 22°30 | 4°10  | 3°50  | 10°30  | 15°18  |
| F 17 | 13 41 52 | 27°19'30  | 12°33 | 24° 6  | 4° 7   | 24°22 | 22°40  | 26° 5  | 15°47  | 26°34  | 22°31 | 3°56  | 3°47  | 10°36  | 15°22  |
| S 18 | 13 45 49 | 28°18'12  | 25°13 | 23°23  | 5°21   | 25° 7 | 22°51  | 26° 4  | 15°49  | 26°37  | 22°31 | 3°44  | 3°44  | 10°43  | 15°26  |
| S 19 | 13 49 45 | 29°16'51  | 8♌ 3  | 22°41  | 6°35   | 25°51 | 23° 1  | 26° 3  | 15°50  | 26°39  | 22°32 | 3°34  | 3°41  | 10°50  | 15°30  |
| M20  | 13 53 42 | 0♌15'29   | 21° 5 | 22° 2  | 7°49   | 26°35 | 23°12  | 26° 2  | 15°51  | 26°41  | 22°33 | 3°27  | 3°37  | 10°57  | 15°34  |
| T 21 | 13 57 38 | 1°14'04   | 4♌19  | 21°26  | 9° 4   | 27°20 | 23°23  | 26° 2  | 15°53  | 26°43  | 22°34 | 3°23  | 3°34  | 11° 3  | 15°38  |
| W22  | 14 1 35  | 2°12'38   | 17°46 | 20°53  | 10°18  | 28° 4 | 23°34  | 26° 1  | 15°54  | 26°46  | 22°35 | 3°21  | 3°31  | 11°10  | 15°42  |
| T 23 | 14 5 31  | 3°11'09   | 1♌29  | 20°24  | 11°32  | 28°48 | 23°45  | 26° 1  | 15°56  | 26°48  | 22°36 | 3°21  | 3°28  | 11°17  | 15°46  |
| F 24 | 14 9 28  | 4° 9'38   | 15°27 | 19°59  | 12°46  | 29°33 | 23°56  | 26° 0  | 15°58  | 26°50  | 22°36 | 3°21  | 3°25  | 11°23  | 15°50  |
| S 25 | 14 13 24 | 5° 8'05   | 29°41 | 19°39  | 14° 0  | 0♌17  | 24° 7  | 26° 0  | 15°59  | 26°52  | 22°37 | 3°19  | 3°22  | 11°30  | 15°54  |
| S 26 | 14 17 21 | 6° 6'29   | 14♌10 | 19°23  | 15°14  | 1° 1  | 24°18  | 26° 0  | 16° 1  | 26°55  | 22°38 | 3°16  | 3°18  | 11°37  | 15°58  |
| M27  | 14 21 18 | 7° 4'52   | 28°49 | 19°13  | 16°28  | 1°46  | 24°29  | 26°D 0 | 16° 3  | 26°57  | 22°39 | 3°10  | 3°15  | 11°43  | 16° 2  |
| T 28 | 14 25 14 | 8° 3'12   | 13♌35 | 19° 7  | 17°42  | 2°30  | 24°41  | 26° 0  | 16° 5  | 26°59  | 22°39 | 3° 1  | 3°12  | 11°50  | 16° 6  |
| W29  | 14 29 11 | 9° 1'30   | 28°19 | 19°D 6 | 18°56  | 3°14  | 24°52  | 26° 0  | 16° 6  | 27° 1  | 22°40 | 2°50  | 3° 9  | 11°57  | 16°11  |
| T 30 | 14 33 7  | 9°59'47   | 12♌52 | 19°V10 | 20°V10 | 3°V59 | 25°V 3 | 26°V 0 | 16° 8  | 27°V 4 | 22°41 | 2°V39 | 3°V 6 | 12°V 3 | 16°V15 |

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SWISS EPHEMERIS for the year 2037

MAY 2037

00:00 UT

| Day  | Sid.t    | ☉         | ☽     | ♀     | ♂       | ♃     | ♄     | ♅      | ♆     | ♇     | ♁      | ♂     | ♁    | ♃     | ♄       |
|------|----------|-----------|-------|-------|---------|-------|-------|--------|-------|-------|--------|-------|------|-------|---------|
| F 1  | 14 37 4  | 10♄58'02  | 27♄ 9 | 19♃19 | 21♄24   | 4♃43  | 25♂15 | 26♂0 0 | 16♄10 | 27♃ 6 | 22♄41  | 2°R28 | 3♂ 3 | 12♃10 | 16♂19   |
| S 2  | 14 41 0  | 11°56'15  | 11♃ 2 | 19°33 | 22°38   | 5°27  | 25°27 | 26° 1  | 16°12 | 27° 8 | 22°42  | 2♂18  | 2°59 | 12°17 | 16°24   |
| S 3  | 14 44 57 | 12°54'27  | 24°30 | 19°51 | 23°51   | 6°12  | 25°38 | 26° 1  | 16°14 | 27°10 | 22°42  | 2°11  | 2°56 | 12°23 | 16°28   |
| M 4  | 14 48 53 | 13°52'37  | 7♄32  | 20°14 | 25° 5   | 6°56  | 25°50 | 26° 2  | 16°16 | 27°12 | 22°43  | 2° 7  | 2°53 | 12°30 | 16°33   |
| T 5  | 14 52 50 | 14°50'46  | 20°10 | 20°41 | 26°19   | 7°40  | 26° 2 | 26° 3  | 16°18 | 27°15 | 22°43  | 2° 5  | 2°50 | 12°37 | 16°37   |
| W 6  | 14 56 47 | 15°48'53  | 2♄29  | 21°12 | 27°33   | 8°24  | 26°14 | 26° 4  | 16°21 | 27°17 | 22°44  | 2°D 4 | 2°47 | 12°43 | 16°42   |
| T 7  | 15 0 43  | 16°46'59  | 14°32 | 21°47 | 28°47   | 9° 9  | 26°26 | 26° 5  | 16°23 | 27°19 | 22°44  | 2°R 4 | 2°43 | 12°50 | 16°46   |
| F 8  | 15 4 40  | 17°45'03  | 26°25 | 22°27 | 0♂II 0  | 9°53  | 26°38 | 26° 6  | 16°25 | 27°21 | 22°45  | 2° 4  | 2°40 | 12°57 | 16°51   |
| S 9  | 15 8 36  | 18°43'06  | 8♃15  | 23°10 | 1°14    | 10°37 | 26°50 | 26° 7  | 16°27 | 27°23 | 22°45  | 2° 2  | 2°37 | 13° 3 | 16°55   |
| S 10 | 15 12 33 | 19°41'08  | 20° 5 | 23°56 | 2°28    | 11°21 | 27° 2 | 26° 8  | 16°30 | 27°25 | 22°45  | 1°59  | 2°34 | 13°10 | 17° 0   |
| M11  | 15 16 29 | 20°39'08  | 2♃ 0  | 24°46 | 3°42    | 12° 6 | 27°15 | 26°10  | 16°32 | 27°28 | 22°46  | 1°52  | 2°31 | 13°17 | 17° 5   |
| T 12 | 15 20 26 | 21°37'07  | 14° 4 | 25°39 | 4°55    | 12°50 | 27°27 | 26°11  | 16°34 | 27°30 | 22°46  | 1°43  | 2°28 | 13°23 | 17° 9   |
| W13  | 15 24 22 | 22°35'04  | 26°21 | 26°36 | 6° 9    | 13°34 | 27°39 | 26°13  | 16°37 | 27°32 | 22°46  | 1°33  | 2°24 | 13°30 | 17°14   |
| T 14 | 15 28 19 | 23°33'00  | 8♄51  | 27°36 | 7°23    | 14°18 | 27°52 | 26°15  | 16°39 | 27°34 | 22°46  | 1°21  | 2°21 | 13°37 | 17°19   |
| F 15 | 15 32 16 | 24°30'55  | 21°35 | 28°38 | 8°36    | 15° 2 | 28° 4 | 26°16  | 16°42 | 27°36 | 22°47  | 1° 9  | 2°18 | 13°43 | 17°24   |
| S 16 | 15 36 12 | 25°28'48  | 4♂33  | 29°44 | 9°50    | 15°46 | 28°17 | 26°18  | 16°44 | 27°38 | 22°47  | 0°58  | 2°15 | 13°50 | 17°28   |
| S 17 | 15 40 9  | 26°26'40  | 17°45 | 0♄52  | 11° 4   | 16°30 | 28°29 | 26°20  | 16°47 | 27°40 | 22°47  | 0°50  | 2°12 | 13°57 | 17°33   |
| M18  | 15 44 5  | 27°24'30  | 1♄ 8  | 2° 3  | 12°17   | 17°14 | 28°42 | 26°22  | 16°50 | 27°42 | 22°47  | 0°44  | 2° 9 | 14° 3 | 17°38   |
| T 19 | 15 48 2  | 28°22'19  | 14°41 | 3°17  | 13°31   | 17°58 | 28°55 | 26°25  | 16°52 | 27°44 | 22°47  | 0°40  | 2° 5 | 14°10 | 17°43   |
| W20  | 15 51 58 | 29°20'06  | 28°24 | 4°34  | 14°44   | 18°42 | 29° 7 | 26°27  | 16°55 | 27°46 | 22°47  | 0°D39 | 2° 2 | 14°17 | 17°48   |
| T 21 | 15 55 55 | 0♂II17'51 | 12♂15 | 5°52  | 15°58   | 19°26 | 29°20 | 26°29  | 16°58 | 27°48 | 22°48  | 0°40  | 1°59 | 14°24 | 17°53   |
| F 22 | 15 59 51 | 1°15'35   | 26°16 | 7°14  | 17°11   | 20°10 | 29°33 | 26°32  | 17° 0 | 27°50 | 22°48  | 0°R40 | 1°56 | 14°30 | 17°58   |
| S 23 | 16 3 48  | 2°13'17   | 10♂24 | 8°38  | 18°25   | 20°54 | 29°46 | 26°35  | 17° 3 | 27°52 | 22°R48 | 0°40  | 1°53 | 14°37 | 18° 3   |
| S 24 | 16 7 45  | 3°10'57   | 24°39 | 10° 4 | 19°38   | 21°37 | 29°59 | 26°37  | 17° 6 | 27°54 | 22°48  | 0°38  | 1°49 | 14°44 | 18° 7   |
| M25  | 16 11 41 | 4° 8'36   | 8♄58  | 11°33 | 20°52   | 22°21 | 0♄12  | 26°40  | 17° 9 | 27°56 | 22°48  | 0°34  | 1°46 | 14°50 | 18°12   |
| T 26 | 16 15 38 | 5° 6'13   | 23°19 | 13° 4 | 22° 5   | 23° 5 | 0°25  | 26°43  | 17°12 | 27°58 | 22°48  | 0°28  | 1°43 | 14°57 | 18°17   |
| W27  | 16 19 34 | 6° 3'49   | 7♄36  | 14°38 | 23°19   | 23°49 | 0°38  | 26°46  | 17°15 | 28° 0 | 22°47  | 0°20  | 1°40 | 15° 4 | 18°22   |
| T 28 | 16 23 31 | 7° 1'24   | 21°44 | 16°14 | 24°32   | 24°32 | 0°51  | 26°49  | 17°18 | 28° 2 | 22°47  | 0°12  | 1°37 | 15°10 | 18°27   |
| F 29 | 16 27 27 | 7°58'57   | 5♃39  | 17°52 | 25°45   | 25°16 | 1° 4  | 26°52  | 17°21 | 28° 3 | 22°47  | 0° 3  | 1°34 | 15°17 | 18°32   |
| S 30 | 16 31 24 | 8°56'30   | 19°15 | 19°33 | 26°59   | 25°59 | 1°17  | 26°56  | 17°24 | 28° 5 | 22°47  | 29♄56 | 1°30 | 15°24 | 18°37   |
| S 31 | 16 35 20 | 9♂II54'01 | 2♄32  | 21♄16 | 28♂II12 | 26♃43 | 1♄30  | 26♂L59 | 17♄27 | 28♃ 7 | 22♄47  | 29♄51 | 1♂27 | 15♃30 | 18♂II43 |

Delta T = 108.27 sec.

JUNE 2037

00:00 UT

| Day  | Sid.t    | ☉          | ☽      | ♀      | ♂       | ♃     | ♄    | ♅      | ♆     | ♇     | ♁      | ♂      | ♁     | ♃     | ♄       |
|------|----------|------------|--------|--------|---------|-------|------|--------|-------|-------|--------|--------|-------|-------|---------|
| M 1  | 16 39 17 | 10♂II51'31 | 15♄27  | 23♄ 2  | 29♂II25 | 27♃26 | 1♄43 | 27♂L 2 | 17♄30 | 28♃ 9 | 22°R47 | 29°R48 | 1♂24  | 15♃37 | 18♂II48 |
| T 2  | 16 43 14 | 11°49'01   | 28° 3  | 24°49  | 0♄39    | 28°10 | 1°57 | 27° 6  | 17°33 | 28°11 | 22♄46  | 29°D47 | 1°21  | 15°44 | 18°53   |
| W 3  | 16 47 10 | 12°46'29   | 10♄21  | 26°40  | 1°52    | 28°53 | 2°10 | 27°10  | 17°36 | 28°12 | 22°46  | 29♄47  | 1°18  | 15°50 | 18°58   |
| T 4  | 16 51 7  | 13°43'57   | 22°25  | 28°32  | 3° 5    | 29°36 | 2°23 | 27°13  | 17°39 | 28°14 | 22°46  | 29°49  | 1°15  | 15°57 | 19° 3   |
| F 5  | 16 55 3  | 14°41'24   | 4♃20   | 0♂II27 | 4°18    | 0♂Y20 | 2°37 | 27°17  | 17°42 | 28°16 | 22°46  | 29°50  | 1°11  | 16° 4 | 19° 8   |
| S 6  | 16 59 0  | 15°38'51   | 16°11  | 2°24   | 5°31    | 1° 3  | 2°50 | 27°21  | 17°46 | 28°17 | 22°45  | 29°R51 | 1° 8  | 16°10 | 19°13   |
| S 7  | 17 2 56  | 16°36'16   | 28° 3  | 4°23   | 6°45    | 1°46  | 3° 3 | 27°25  | 17°49 | 28°19 | 22°45  | 29°50  | 1° 5  | 16°17 | 19°18   |
| M 8  | 17 6 53  | 17°33'41   | 10♃ 1  | 6°24   | 7°58    | 2°29  | 3°17 | 27°29  | 17°52 | 28°21 | 22°45  | 29°47  | 1° 2  | 16°24 | 19°23   |
| T 9  | 17 10 49 | 18°31'06   | 22° 9  | 8°27   | 9°11    | 3°12  | 3°30 | 27°33  | 17°55 | 28°22 | 22°44  | 29°43  | 0°59  | 16°30 | 19°28   |
| W10  | 17 14 46 | 19°28'29   | 4♄32   | 10°32  | 10°24   | 3°55  | 3°44 | 27°37  | 17°59 | 28°24 | 22°44  | 29°38  | 0°55  | 16°37 | 19°33   |
| T 11 | 17 18 43 | 20°25'53   | 17°10  | 12°39  | 11°37   | 4°38  | 3°57 | 27°42  | 18° 2 | 28°25 | 22°43  | 29°31  | 0°52  | 16°44 | 19°39   |
| F 12 | 17 22 39 | 21°23'15   | 0♂II 7 | 14°47  | 12°50   | 5°21  | 4°11 | 27°46  | 18° 5 | 28°27 | 22°43  | 29°25  | 0°49  | 16°51 | 19°44   |
| S 13 | 17 26 36 | 22°20'38   | 13°23  | 16°56  | 14° 3   | 6° 4  | 4°24 | 27°51  | 18° 9 | 28°29 | 22°42  | 29°19  | 0°46  | 16°57 | 19°49   |
| S 14 | 17 30 32 | 23°17'59   | 26°55  | 19° 6  | 15°16   | 6°47  | 4°38 | 27°55  | 18°12 | 28°30 | 22°42  | 29°14  | 0°43  | 17° 4 | 19°54   |
| M15  | 17 34 29 | 24°15'20   | 10♄41  | 21°17  | 16°29   | 7°29  | 4°51 | 28° 0  | 18°15 | 28°31 | 22°41  | 29°11  | 0°40  | 17°11 | 19°59   |
| T 16 | 17 38 25 | 25°12'40   | 24°40  | 23°29  | 17°42   | 8°12  | 5° 5 | 28° 4  | 18°19 | 28°33 | 22°41  | 29°D10 | 0°36  | 17°17 | 20° 4   |
| W17  | 17 42 22 | 26° 9'59   | 8♄47   | 25°41  | 18°55   | 8°54  | 5°18 | 28° 9  | 18°22 | 28°34 | 22°40  | 29°10  | 0°33  | 17°24 | 20° 9   |
| T 18 | 17 46 18 | 27° 7'18   | 22°58  | 27°53  | 20° 8   | 9°37  | 5°32 | 28°14  | 18°26 | 28°36 | 22°39  | 29°11  | 0°30  | 17°31 | 20°14   |
| F 19 | 17 50 15 | 28° 4'35   | 7♄13   | 0♄ 5   | 21°21   | 10°19 | 5°46 | 28°19  | 18°29 | 28°37 | 22°39  | 29°13  | 0°27  | 17°37 | 20°19   |
| S 20 | 17 54 12 | 29° 1'52   | 21°27  | 2°16   | 22°34   | 11° 1 | 5°59 | 28°24  | 18°33 | 28°38 | 22°38  | 29°14  | 0°24  | 17°44 | 20°24   |
| S 21 | 17 58 8  | 29°59'08   | 5♄38   | 4°26   | 23°47   | 11°43 | 6°13 | 28°29  | 18°36 | 28°40 | 22°37  | 29°R14 | 0°21  | 17°51 | 20°30   |
| M22  | 18 2 5   | 0♄56'23    | 19°45  | 6°35   | 25° 0   | 12°25 | 6°26 | 28°34  | 18°40 | 28°41 | 22°37  | 29°13  | 0°17  | 17°57 | 20°35   |
| T 23 | 18 6 1   | 1°53'38    | 3♄46   | 8°43   | 26°12   | 13° 7 | 6°40 | 28°39  | 18°43 | 28°42 | 22°36  | 29°10  | 0°14  | 18° 4 | 20°40   |
| W24  | 18 9 58  | 2°50'52    | 17°38  | 10°49  | 27°25   | 13°49 | 6°54 | 28°45  | 18°47 | 28°44 | 22°35  | 29° 7  | 0°11  | 18°11 | 20°45   |
| T 25 | 18 13 54 | 3°48'05    | 1♃19   | 12°54  | 28°38   | 14°31 | 7° 7 | 28°50  | 18°50 | 28°45 | 22°34  | 29° 3  | 0° 8  | 18°17 | 20°50   |
| F 26 | 18 17 51 | 4°45'18    | 14°47  | 14°57  | 29°51   | 15°13 | 7°21 | 28°56  | 18°54 | 28°46 | 22°34  | 29° 0  | 0° 5  | 18°24 | 20°55   |
| S 27 | 18 21 47 | 5°42'30    | 28° 1  | 16°59  | 1♂L 3   | 15°54 | 7°35 | 29° 1  | 18°57 | 28°47 | 22°33  | 28°57  | 0° 1  | 18°31 | 21° 0   |
| S 28 | 18 25 44 | 6°39'43    | 10♄58  | 18°58  | 2°16    | 16°36 | 7°48 | 29° 7  | 19° 1 | 28°48 | 22°32  | 28°55  | 29♄58 | 18°38 | 21° 5   |
| M29  | 18 29 41 | 7°36'55    | 23°40  | 20°56  | 3°29    | 17°17 | 8° 2 | 29°12  | 19° 5 | 28°49 | 22°31  | 28°D54 | 29°55 | 18°44 | 21°10   |
| T 30 | 18 33 37 | 8♄34'07    | 6♄ 6   | 22♄51  | 4♂L41   | 17♃59 | 8♄15 | 29♂L18 | 19♄ 8 | 28♃50 | 22♄30  | 28♄54  | 29♄52 | 18♃51 | 21♂II15 |

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SWISS EPHEMERIS for the year 2037

JULY 2037

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂      | ♂      | ♂     | ♂     | ♂     |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| W 1  | 18 37 34 | 9☉31'18  | 18☾19 | 24☿45 | 5♂54  | 18♂40 | 8☿29  | 29♂24 | 19☿12 | 28♂51 | 22♂R29 | 28☿55  | 29☿49 | 18♂58 | 21♂20 |
| T 2  | 18 41 30 | 10°28'30 | 0♂22  | 26°36 | 7° 6  | 19°21 | 8°43  | 29°29 | 19°15 | 28°52 | 22☾29  | 28°56  | 29°46 | 19° 4 | 21°25 |
| F 3  | 18 45 27 | 11°25'42 | 12°16 | 28°26 | 8°19  | 20° 2 | 8°56  | 29°35 | 19°19 | 28°53 | 22°28  | 28°58  | 29°42 | 19°11 | 21°30 |
| S 4  | 18 49 23 | 12°22'54 | 24° 8 | 0♂13  | 9°31  | 20°43 | 9°10  | 29°41 | 19°23 | 28°54 | 22°27  | 28°59  | 29°39 | 19°18 | 21°35 |
| S 5  | 18 53 20 | 13°20'06 | 6♂ 0  | 1°59  | 10°44 | 21°24 | 9°24  | 29°47 | 19°26 | 28°55 | 22°26  | 29° 0  | 29°36 | 19°24 | 21°39 |
| M 6  | 18 57 16 | 14°17'19 | 17°59 | 3°42  | 11°56 | 22° 4 | 9°37  | 29°53 | 19°30 | 28°56 | 22°25  | 29°R 0 | 29°33 | 19°31 | 21°44 |
| T 7  | 19 1 13  | 15°14'31 | 0♂ 7  | 5°23  | 13° 9 | 22°45 | 9°51  | 29°59 | 19°33 | 28°57 | 22°24  | 28°59  | 29°30 | 19°38 | 21°49 |
| W 8  | 19 5 10  | 16°11'44 | 12°31 | 7° 2  | 14°21 | 23°25 | 10° 4 | 0♂ 6  | 19°37 | 28°58 | 22°23  | 28°58  | 29°27 | 19°44 | 21°54 |
| T 9  | 19 9 6   | 17° 8'58 | 25°12 | 8°39  | 15°33 | 24° 6 | 10°18 | 0°12  | 19°41 | 28°58 | 22°22  | 28°57  | 29°23 | 19°51 | 21°59 |
| F 10 | 19 13 3  | 18° 6'12 | 8♂15  | 10°14 | 16°46 | 24°46 | 10°32 | 0°18  | 19°44 | 28°59 | 22°21  | 28°55  | 29°20 | 19°58 | 22° 4 |
| S 11 | 19 16 59 | 19° 3'26 | 21°40 | 11°46 | 17°58 | 25°26 | 10°45 | 0°24  | 19°48 | 29° 0 | 22°20  | 28°54  | 29°17 | 20° 5 | 22° 8 |
| S 12 | 19 20 56 | 20° 0'41 | 5☿27  | 13°17 | 19°10 | 26° 6 | 10°59 | 0°31  | 19°52 | 29° 1 | 22°19  | 28°53  | 29°14 | 20°11 | 22°13 |
| M 13 | 19 24 52 | 20°57'56 | 19°34 | 14°45 | 20°22 | 26°46 | 11°12 | 0°37  | 19°55 | 29° 1 | 22°17  | 28°53  | 29°11 | 20°18 | 22°18 |
| T 14 | 19 28 49 | 21°55'11 | 3♂57  | 16°12 | 21°35 | 27°25 | 11°26 | 0°44  | 19°59 | 29° 2 | 22°16  | 28°D53 | 29° 7 | 20°25 | 22°22 |
| W 15 | 19 32 46 | 22°52'26 | 18°30 | 17°36 | 22°47 | 28° 5 | 11°39 | 0°50  | 20° 3 | 29° 2 | 22°15  | 28°53  | 29° 4 | 20°31 | 22°27 |
| T 16 | 19 36 42 | 23°49'41 | 3♂ 7  | 18°58 | 23°59 | 28°44 | 11°53 | 0°57  | 20° 6 | 29° 3 | 22°14  | 28°53  | 29° 1 | 20°38 | 22°32 |
| F 17 | 19 40 39 | 24°46'57 | 17°44 | 20°17 | 25°11 | 29°23 | 12° 6 | 1° 3  | 20°10 | 29° 4 | 22°13  | 28°54  | 28°58 | 20°45 | 22°36 |
| S 18 | 19 44 35 | 25°44'13 | 2♂13  | 21°35 | 26°23 | 0♂ 2  | 12°20 | 1°10  | 20°14 | 29° 4 | 22°12  | 28°54  | 28°55 | 20°51 | 22°41 |
| S 19 | 19 48 32 | 26°41'28 | 16°32 | 22°50 | 27°35 | 0°41  | 12°33 | 1°17  | 20°17 | 29° 4 | 22°11  | 28°54  | 28°52 | 20°58 | 22°45 |
| M 20 | 19 52 28 | 27°38'44 | 0♂38  | 24° 2 | 28°47 | 1°20  | 12°46 | 1°23  | 20°21 | 29° 5 | 22° 9  | 28°R54 | 28°48 | 21° 5 | 22°50 |
| T 21 | 19 56 25 | 28°36'00 | 14°28 | 25°13 | 29°59 | 1°58  | 13° 0 | 1°30  | 20°24 | 29° 5 | 22° 8  | 28°D54 | 28°45 | 21°11 | 22°54 |
| W 22 | 20 0 21  | 29°33'16 | 28° 3 | 26°20 | 1♂11  | 2°36  | 13°13 | 1°37  | 20°28 | 29° 6 | 22° 7  | 28°54  | 28°42 | 21°18 | 22°59 |
| T 23 | 20 4 18  | 0♂30'33  | 11♂22 | 27°25 | 2°23  | 3°15  | 13°26 | 1°44  | 20°32 | 29° 6 | 22° 6  | 28°54  | 28°39 | 21°25 | 23° 3 |
| F 24 | 20 8 15  | 1°27'50  | 24°27 | 28°27 | 3°34  | 3°53  | 13°40 | 1°51  | 20°35 | 29° 6 | 22° 5  | 28°54  | 28°36 | 21°32 | 23° 8 |
| S 25 | 20 12 11 | 2°25'08  | 7♂17  | 29°26 | 4°46  | 4°31  | 13°53 | 1°58  | 20°39 | 29° 7 | 22° 3  | 28°55  | 28°33 | 21°38 | 23°12 |
| S 26 | 20 16 8  | 3°22'26  | 19°54 | 0♂23  | 5°58  | 5° 8  | 14° 6 | 2° 5  | 20°42 | 29° 7 | 22° 2  | 28°55  | 28°29 | 21°45 | 23°16 |
| M 27 | 20 20 4  | 4°19'44  | 2♂19  | 1°16  | 7°10  | 5°46  | 14°19 | 2°12  | 20°46 | 29° 7 | 22° 1  | 28°R55 | 28°26 | 21°52 | 23°20 |
| T 28 | 20 24 1  | 5°17'03  | 14°34 | 2° 6  | 8°21  | 6°23  | 14°32 | 2°19  | 20°50 | 29° 7 | 22° 0  | 28°55  | 28°23 | 21°58 | 23°25 |
| W 29 | 20 27 57 | 6°14'23  | 26°39 | 2°53  | 9°33  | 7° 0  | 14°46 | 2°26  | 20°53 | 29° 7 | 21°58  | 28°54  | 28°20 | 22° 5 | 23°29 |
| T 30 | 20 31 54 | 7°11'44  | 8♂36  | 3°36  | 10°44 | 7°37  | 14°59 | 2°33  | 20°57 | 29° 7 | 21°57  | 28°53  | 28°17 | 22°12 | 23°33 |
| F 31 | 20 35 50 | 8♂ 9'05  | 20♂29 | 4♂16  | 11♂56 | 8♂14  | 15☿12 | 2♂40  | 21☿ 0 | 29♂ 7 | 21☾56  | 28☿52  | 28☿13 | 22♂18 | 23♂37 |

Delta T = 108.53 sec.

AUGUST 2037

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♂     | ♂     | ♂     | ♂    | ♂     | ♂      | ♂      | ♂      | ♂     | ♂     | ♂     |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|--------|--------|--------|-------|-------|-------|
| S 1  | 20 39 47 | 9♂ 6'28  | 2♂20  | 4♂52  | 13♂ 7 | 8♂50  | 15☿25 | 2♂47 | 21☿ 4 | 29♂ 8  | 21°R55 | 28°R51 | 28☿10 | 22♂25 | 23♂41 |
| S 2  | 20 43 44 | 10° 3'52 | 14°12 | 5°23  | 14°19 | 9°27  | 15°38 | 2°54 | 21° 7 | 29°R 8 | 21☾53  | 28☿49  | 28° 7 | 22°32 | 23°45 |
| M 3  | 20 47 40 | 11° 1'16 | 26°10 | 5°51  | 15°30 | 10° 3 | 15°51 | 3° 1 | 21°11 | 29° 7  | 21°52  | 28°48  | 28° 4 | 22°39 | 23°49 |
| T 4  | 20 51 37 | 11°58'42 | 8♂17  | 6°14  | 16°41 | 10°39 | 16° 4 | 3° 9 | 21°14 | 29° 7  | 21°51  | 28°D48 | 28° 1 | 22°45 | 23°53 |
| W 5  | 20 55 33 | 12°56'09 | 20°38 | 6°33  | 17°52 | 11°14 | 16°16 | 3°16 | 21°18 | 29° 7  | 21°49  | 28°48  | 27°58 | 22°52 | 23°57 |
| T 6  | 20 59 30 | 13°53'38 | 3♂17  | 6°47  | 19° 4 | 11°50 | 16°29 | 3°23 | 21°21 | 29° 7  | 21°48  | 28°49  | 27°54 | 22°59 | 24° 1 |
| F 7  | 21 3 26  | 14°51'07 | 16°18 | 6°56  | 20°15 | 12°25 | 16°42 | 3°31 | 21°25 | 29° 7  | 21°47  | 28°50  | 27°51 | 23° 5 | 24° 4 |
| S 8  | 21 7 23  | 15°48'38 | 29°44 | 6°R59 | 21°26 | 13° 0 | 16°55 | 3°38 | 21°28 | 29° 7  | 21°45  | 28°51  | 27°48 | 23°12 | 24° 8 |
| S 9  | 21 11 19 | 16°46'10 | 13☿36 | 6°58  | 22°37 | 13°34 | 17° 7 | 3°45 | 21°31 | 29° 7  | 21°44  | 28°52  | 27°45 | 23°19 | 24°12 |
| M 10 | 21 15 16 | 17°43'44 | 27°52 | 6°51  | 23°48 | 14° 9 | 17°20 | 3°53 | 21°35 | 29° 6  | 21°43  | 28°R53 | 27°42 | 23°25 | 24°16 |
| T 11 | 21 19 13 | 18°41'19 | 12♂31 | 6°39  | 24°59 | 14°43 | 17°33 | 4° 0 | 21°38 | 29° 6  | 21°41  | 28°52  | 27°38 | 23°32 | 24°19 |
| W 12 | 21 23 9  | 19°38'54 | 27°24 | 6°22  | 26°10 | 15°17 | 17°45 | 4° 8 | 21°41 | 29° 6  | 21°40  | 28°51  | 27°35 | 23°39 | 24°23 |
| T 13 | 21 27 6  | 20°36'31 | 12♂26 | 5°59  | 27°21 | 15°51 | 17°57 | 4°15 | 21°45 | 29° 5  | 21°39  | 28°49  | 27°32 | 23°46 | 24°26 |
| F 14 | 21 31 2  | 21°34'09 | 27°26 | 5°31  | 28°31 | 16°24 | 18°10 | 4°23 | 21°48 | 29° 5  | 21°37  | 28°46  | 27°29 | 23°52 | 24°30 |
| S 15 | 21 34 59 | 22°31'48 | 12♂16 | 4°57  | 29°42 | 16°57 | 18°22 | 4°30 | 21°51 | 29° 5  | 21°36  | 28°43  | 27°26 | 23°59 | 24°33 |
| S 16 | 21 38 55 | 23°29'27 | 26°50 | 4°19  | 0♂53  | 17°30 | 18°35 | 4°38 | 21°55 | 29° 4  | 21°35  | 28°40  | 27°23 | 24° 6 | 24°36 |
| M 17 | 21 42 52 | 24°27'08 | 11♂3  | 3°37  | 2° 3  | 18° 2 | 18°47 | 4°45 | 21°58 | 29° 4  | 21°33  | 28°38  | 27°19 | 24°12 | 24°40 |
| T 18 | 21 46 48 | 25°24'50 | 24°54 | 2°52  | 3°14  | 18°35 | 18°59 | 4°53 | 22° 1 | 29° 3  | 21°32  | 28°D38 | 27°16 | 24°19 | 24°43 |
| W 19 | 21 50 45 | 26°22'33 | 8♂21  | 2° 3  | 4°24  | 19° 7 | 19°11 | 5° 0 | 22° 4 | 29° 3  | 21°31  | 28°38  | 27°13 | 24°26 | 24°46 |
| T 20 | 21 54 41 | 27°20'17 | 21°28 | 1°12  | 5°35  | 19°38 | 19°23 | 5° 8 | 22° 7 | 29° 2  | 21°29  | 28°40  | 27°10 | 24°32 | 24°49 |
| F 21 | 21 58 38 | 28°18'02 | 4♂16  | 0°20  | 6°45  | 20°10 | 19°35 | 5°15 | 22°10 | 29° 1  | 21°28  | 28°41  | 27° 7 | 24°39 | 24°52 |
| S 22 | 22 2 35  | 29°15'48 | 16°49 | 29♂27 | 7°55  | 20°41 | 19°47 | 5°23 | 22°14 | 29° 1  | 21°27  | 28°43  | 27° 4 | 24°46 | 24°55 |
| S 23 | 22 6 31  | 0♂13'36  | 29° 9 | 28°35 | 9° 5  | 21°11 | 19°59 | 5°30 | 22°17 | 29° 0  | 21°25  | 28°R43 | 27° 0 | 24°53 | 24°58 |
| M 24 | 22 10 28 | 1°11'24  | 11☾20 | 27°45 | 10°16 | 21°41 | 20°11 | 5°38 | 22°20 | 28°59  | 21°24  | 28°42  | 26°57 | 24°59 | 25° 1 |
| T 25 | 22 14 24 | 2° 9'14  | 23°23 | 26°58 | 11°26 | 22°11 | 20°22 | 5°46 | 22°23 | 28°59  | 21°23  | 28°40  | 26°54 | 25° 6 | 25° 4 |
| W 26 | 22 18 21 | 3° 7'06  | 5♂20  | 26°15 | 12°36 | 22°41 | 20°34 | 5°53 | 22°26 | 28°58  | 21°22  | 28°36  | 26°51 | 25°13 | 25° 7 |
| T 27 | 22 22 17 | 4° 4'59  | 17°14 | 25°37 | 13°45 | 23°10 | 20°45 | 6° 1 | 22°29 | 28°57  | 21°20  | 28°30  | 26°48 | 25°19 | 25° 9 |
| F 28 | 22 26 14 | 5° 2'53  | 29° 5 | 25° 5 | 14°55 | 23°39 | 20°57 | 6° 8 | 22°32 | 28°56  | 21°19  | 28°24  | 26°44 | 25°26 | 25°12 |
| S 29 | 22 30 10 | 6° 0'49  | 10♂56 | 24°39 | 16° 5 | 24° 8 | 21° 8 | 6°16 | 22°34 | 28°56  | 21°18  | 28°17  | 26°41 | 25°33 | 25°14 |
| S 30 | 22 34 7  | 6°58'47  | 22°50 | 24°20 | 17°15 | 24°36 | 21°20 | 6°23 | 22°37 | 28°55  | 21°16  | 28°11  | 26°38 | 25°39 | 25°17 |
| M 31 | 22 38 4  | 7♂56'46  | 4♂48  | 24♂10 | 18♂24 | 25♂ 4 | 21☿31 | 6♂31 | 22☿40 | 28♂54  | 21☾15  | 28☿ 5  | 26☿35 | 25♂46 | 25♂19 |

Delta T = 108.67 sec.

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SWISS EPHEMERIS for the year 2037

SEPTEMBER 2037

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♅     | ♁     | ♁      | ♁      | ♁      | ♁     | ♁     | ♁     |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|
| T 1  | 22 42 0  | 8♎54'48  | 16♌55 | 24♋7  | 19♉34 | 25♊31 | 21♎42 | 6♎39  | 22♎43 | 28♋R53 | 21♋R14 | 28♋R 1 | 26♎32 | 25♋53 | 25♎22 |
| W 2  | 22 45 57 | 9°52'51  | 29°14 | 24°12 | 20°43 | 25°58 | 21°53 | 6°46  | 22°46 | 28♎52  | 21♎13  | 27♎59  | 26°29 | 26° 0 | 25°24 |
| T 3  | 22 49 53 | 10°50'56 | 11♎48 | 24°26 | 21°52 | 26°25 | 22° 4 | 6°54  | 22°48 | 28°51  | 21°11  | 27°D58 | 26°25 | 26° 6 | 25°26 |
| F 4  | 22 53 50 | 11°49'04 | 24°44 | 24°49 | 23° 2 | 26°51 | 22°15 | 7° 1  | 22°51 | 28°50  | 21°10  | 27°59  | 26°22 | 26°13 | 25°29 |
| S 5  | 22 57 46 | 12°47'13 | 8♎ 3  | 25°20 | 24°11 | 27°17 | 22°26 | 7° 9  | 22°54 | 28°49  | 21° 9  | 28° 0  | 26°19 | 26°20 | 25°31 |
| S 6  | 23 1 43  | 13°45'24 | 21°49 | 25°59 | 25°20 | 27°42 | 22°37 | 7°17  | 22°56 | 28°48  | 21° 8  | 28♋R 1 | 26°16 | 26°26 | 25°33 |
| M 7  | 23 5 39  | 14°43'37 | 6♎ 3  | 26°47 | 26°29 | 28° 7 | 22°47 | 7°24  | 22°59 | 28°47  | 21° 6  | 28° 1  | 26°13 | 26°33 | 25°35 |
| T 8  | 23 9 36  | 15°41'53 | 20°43 | 27°42 | 27°38 | 28°31 | 22°58 | 7°32  | 23° 2 | 28°46  | 21° 5  | 27°59  | 26°10 | 26°40 | 25°37 |
| W 9  | 23 13 33 | 16°40'10 | 5♎44  | 28°44 | 28°47 | 28°55 | 23° 9 | 7°39  | 23° 4 | 28°45  | 21° 4  | 27°55  | 26° 6 | 26°46 | 25°38 |
| T 10 | 23 17 29 | 17°38'28 | 20°58 | 29°53 | 29°55 | 29°18 | 23°19 | 7°47  | 23° 7 | 28°43  | 21° 3  | 27°49  | 26° 3 | 26°53 | 25°40 |
| F 11 | 23 21 26 | 18°36'49 | 6♎15  | 1♎ 9  | 1♎ 4  | 29°41 | 23°29 | 7°54  | 23° 9 | 28°42  | 21° 2  | 27°41  | 26° 0 | 27° 0 | 25°42 |
| S 12 | 23 25 22 | 19°35'11 | 21°23 | 2°30  | 2°13  | 0♎ 3  | 23°39 | 8° 2  | 23°11 | 28°41  | 21° 1  | 27°33  | 25°57 | 27° 7 | 25°44 |
| S 13 | 23 29 19 | 20°33'35 | 6♎13  | 3°56  | 3°21  | 0°25  | 23°49 | 8° 9  | 23°14 | 28°40  | 20°59  | 27°26  | 25°54 | 27°13 | 25°45 |
| M14  | 23 33 15 | 21°32'00 | 20°39 | 5°27  | 4°29  | 0°46  | 23°59 | 8°17  | 23°16 | 28°39  | 20°58  | 27°21  | 25°50 | 27°20 | 25°47 |
| T 15 | 23 37 12 | 22°30'27 | 4♎36  | 7° 3  | 5°37  | 1° 7  | 24° 9 | 8°24  | 23°18 | 28°37  | 20°57  | 27°17  | 25°47 | 27°27 | 25°48 |
| W16  | 23 41 8  | 23°28'56 | 18° 6 | 8°41  | 6°46  | 1°27  | 24°19 | 8°32  | 23°21 | 28°36  | 20°56  | 27°D16 | 25°44 | 27°33 | 25°49 |
| T 17 | 23 45 5  | 24°27'27 | 1♎10  | 10°23 | 7°53  | 1°47  | 24°29 | 8°39  | 23°23 | 28°35  | 20°55  | 27°16  | 25°41 | 27°40 | 25°51 |
| F 18 | 23 49 2  | 25°25'59 | 13°51 | 12° 7 | 9° 1  | 2° 6  | 24°38 | 8°47  | 23°25 | 28°33  | 20°54  | 27°17  | 25°38 | 27°47 | 25°52 |
| S 19 | 23 52 58 | 26°24'32 | 26°15 | 13°54 | 10° 9 | 2°24  | 24°48 | 8°54  | 23°27 | 28°32  | 20°53  | 27°R17 | 25°35 | 27°54 | 25°53 |
| S 20 | 23 56 55 | 27°23'07 | 8♎25  | 15°41 | 11°17 | 2°42  | 24°57 | 9° 1  | 23°29 | 28°31  | 20°52  | 27°16  | 25°31 | 28° 0 | 25°54 |
| M21  | 0 0 51   | 28°21'44 | 20°26 | 17°30 | 12°24 | 2°59  | 25° 6 | 9° 9  | 23°31 | 28°29  | 20°51  | 27°14  | 25°28 | 28° 7 | 25°55 |
| T 22 | 0 4 48   | 29°20'23 | 2♎21  | 19°20 | 13°31 | 3°16  | 25°15 | 9°16  | 23°33 | 28°28  | 20°50  | 27° 8  | 25°25 | 28°14 | 25°56 |
| W23  | 0 8 44   | 0♎19'03  | 14°13 | 21°11 | 14°39 | 3°32  | 25°24 | 9°23  | 23°35 | 28°26  | 20°49  | 27° 1  | 25°22 | 28°20 | 25°57 |
| T 24 | 0 12 41  | 1°17'46  | 26° 4 | 23° 1 | 15°46 | 3°47  | 25°33 | 9°30  | 23°37 | 28°25  | 20°48  | 26°50  | 25°19 | 28°27 | 25°58 |
| F 25 | 0 16 37  | 2°16'30  | 7♎56  | 24°52 | 16°53 | 4° 2  | 25°42 | 9°38  | 23°39 | 28°24  | 20°47  | 26°38  | 25°15 | 28°34 | 25°58 |
| S 26 | 0 20 34  | 3°15'16  | 19°51 | 26°43 | 17°59 | 4°15  | 25°51 | 9°45  | 23°40 | 28°22  | 20°46  | 26°26  | 25°12 | 28°40 | 25°59 |
| S 27 | 0 24 30  | 4°14'05  | 1♎49  | 28°33 | 19° 6 | 4°29  | 25°59 | 9°52  | 23°42 | 28°21  | 20°45  | 26°13  | 25° 9 | 28°47 | 25°59 |
| M28  | 0 28 27  | 5°12'55  | 13°53 | 0♎23  | 20°12 | 4°41  | 26° 8 | 9°59  | 23°44 | 28°19  | 20°44  | 26° 3  | 25° 6 | 28°54 | 26° 0 |
| T 29 | 0 32 24  | 6°11'48  | 26° 4 | 2°12  | 21°19 | 4°53  | 26°16 | 10° 6 | 23°46 | 28°18  | 20°44  | 25°54  | 25° 3 | 29° 1 | 26° 0 |
| W30  | 0 36 20  | 7°10'43  | 8♎25  | 4♎ 1  | 22♎25 | 5♎ 4  | 26♎24 | 10♎13 | 23♎47 | 28♎16  | 20♎43  | 25♎48  | 25♎ 0 | 29♎ 7 | 26♎11 |

Delta T = 108.80 sec.

OCTOBER 2037

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♅     | ♁      | ♁      | ♁      | ♁      | ♁     | ♁     | ♁      |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|
| T 1  | 0 40 17 | 8♎ 9'40  | 21♎ 0 | 5♎49  | 23♎31 | 5♎15  | 26♎32 | 10♎20 | 23♎49  | 28♋R14 | 20♋R42 | 25♋R44 | 24♎56 | 29♎14 | 26♎ 1  |
| F 2  | 0 44 13 | 9° 8'39  | 3♎51  | 7°37  | 24°36 | 5°24  | 26°40 | 10°27 | 23°50  | 28♎13  | 20♎41  | 25♎43  | 24°53 | 29°21 | 26° 1  |
| S 3  | 0 48 10 | 10° 7'41 | 17° 4 | 9°24  | 25°42 | 5°33  | 26°48 | 10°34 | 23°52  | 28°11  | 20°40  | 25°D43 | 24°50 | 29°27 | 26° 1  |
| S 4  | 0 52 6  | 11° 6'45 | 0♎40  | 11°10 | 26°47 | 5°41  | 26°55 | 10°41 | 23°53  | 28°10  | 20°40  | 25°R43 | 24°47 | 29°34 | 26°R 1 |
| M 5  | 0 56 3  | 12° 5'52 | 14°43 | 12°55 | 27°53 | 5°48  | 27° 3 | 10°48 | 23°54  | 28° 8  | 20°39  | 25°42  | 24°44 | 29°41 | 26° 1  |
| T 6  | 0 59 59 | 13° 5'00 | 29°12 | 14°39 | 28°58 | 5°55  | 27°10 | 10°55 | 23°56  | 28° 7  | 20°38  | 25°39  | 24°41 | 29°48 | 26° 1  |
| W 7  | 1 3 56  | 14° 4'11 | 14♎ 4 | 16°23 | 0♎ 3  | 6° 0  | 27°17 | 11° 2 | 23°57  | 28° 5  | 20°37  | 25°33  | 24°37 | 29°54 | 26° 1  |
| T 8  | 1 7 53  | 15° 3'24 | 29°14 | 18° 5 | 1° 7  | 6° 5  | 27°24 | 11° 9 | 23°58  | 28° 3  | 20°37  | 25°24  | 24°34 | 0♎ 1  | 26° 0  |
| F 9  | 1 11 49 | 16° 2'40 | 14♎31 | 19°47 | 2°12  | 6° 9  | 27°31 | 11°15 | 23°59  | 28° 2  | 20°36  | 25°13  | 24°31 | 0° 8  | 26° 0  |
| S 10 | 1 15 46 | 17° 1'57 | 29°44 | 21°29 | 3°16  | 6°12  | 27°38 | 11°22 | 24° 0  | 28° 0  | 20°35  | 25° 2  | 24°28 | 0°14  | 25°59  |
| S 11 | 1 19 42 | 18° 1'16 | 14♎43 | 23° 9 | 4°20  | 6°14  | 27°44 | 11°29 | 24° 2  | 27°58  | 20°35  | 24°51  | 24°25 | 0°21  | 25°59  |
| M12  | 1 23 39 | 19° 0'38 | 29°18 | 24°49 | 5°24  | 6°15  | 27°51 | 11°35 | 24° 3  | 27°57  | 20°34  | 24°43  | 24°21 | 0°28  | 25°58  |
| T 13 | 1 27 35 | 20° 0'01 | 13♎24 | 26°28 | 6°27  | 6°R16 | 27°57 | 11°42 | 24° 3  | 27°55  | 20°34  | 24°36  | 24°18 | 0°34  | 25°58  |
| W14  | 1 31 32 | 20°59'26 | 27° 1 | 28° 6 | 7°31  | 6°15  | 28° 3 | 11°48 | 24° 4  | 27°53  | 20°33  | 24°33  | 24°15 | 0°41  | 25°57  |
| T 15 | 1 35 28 | 21°58'52 | 10♎ 8 | 29°43 | 8°34  | 6°14  | 28° 9 | 11°55 | 24° 5  | 27°52  | 20°33  | 24°31  | 24°12 | 0°48  | 25°56  |
| F 16 | 1 39 25 | 22°58'21 | 22°51 | 1♎20  | 9°36  | 6°12  | 28°15 | 12° 1 | 24° 6  | 27°50  | 20°32  | 24°31  | 24° 9 | 0°55  | 25°55  |
| S 17 | 1 43 22 | 23°57'51 | 5♎14  | 2°56  | 10°39 | 6° 9  | 28°20 | 12° 7 | 24° 7  | 27°48  | 20°32  | 24°31  | 24° 6 | 1° 1  | 25°54  |
| S 18 | 1 47 18 | 24°57'23 | 17°21 | 4°32  | 11°41 | 6° 5  | 28°26 | 12°14 | 24° 7  | 27°47  | 20°31  | 24°29  | 24° 2 | 1° 8  | 25°53  |
| M19  | 1 51 15 | 25°56'56 | 29°18 | 6° 7  | 12°43 | 6° 0  | 28°31 | 12°20 | 24° 8  | 27°45  | 20°31  | 24°26  | 23°59 | 1°15  | 25°52  |
| T 20 | 1 55 11 | 26°56'32 | 11♎10 | 7°41  | 13°45 | 5°54  | 28°36 | 12°26 | 24° 9  | 27°43  | 20°31  | 24°20  | 23°56 | 1°21  | 25°51  |
| W21  | 1 59 8  | 27°56'09 | 23° 0 | 9°14  | 14°46 | 5°47  | 28°41 | 12°32 | 24° 9  | 27°42  | 20°30  | 24°11  | 23°53 | 1°28  | 25°49  |
| T 22 | 2 3 4   | 28°55'48 | 4♎52  | 10°48 | 15°47 | 5°40  | 28°46 | 12°38 | 24°10  | 27°40  | 20°30  | 23°59  | 23°50 | 1°35  | 25°48  |
| F 23 | 2 7 1   | 29°55'28 | 16°47 | 12°20 | 16°47 | 5°31  | 28°51 | 12°44 | 24°10  | 27°38  | 20°30  | 23°46  | 23°46 | 1°42  | 25°47  |
| S 24 | 2 10 57 | 0♎55'11  | 28°48 | 13°52 | 17°48 | 5°22  | 28°55 | 12°50 | 24°10  | 27°37  | 20°29  | 23°31  | 23°43 | 1°48  | 25°45  |
| S 25 | 2 14 54 | 1°54'56  | 10♎55 | 15°23 | 18°47 | 5°12  | 29° 0 | 12°56 | 24°11  | 27°35  | 20°29  | 23°17  | 23°40 | 1°55  | 25°44  |
| M26  | 2 18 51 | 2°54'43  | 23° 9 | 16°54 | 19°47 | 5° 1  | 29° 4 | 13° 2 | 24°11  | 27°33  | 20°29  | 23° 5  | 23°37 | 2° 2  | 25°42  |
| T 27 | 2 22 47 | 3°54'32  | 5♎31  | 18°24 | 20°46 | 4°49  | 29° 8 | 13° 8 | 24°11  | 27°32  | 20°29  | 22°54  | 23°34 | 2° 8  | 25°40  |
| W28  | 2 26 44 | 4°54'23  | 18° 3 | 19°54 | 21°45 | 4°36  | 29°11 | 13°13 | 24°11  | 27°30  | 20°28  | 22°47  | 23°31 | 2°15  | 25°38  |
| T 29 | 2 30 40 | 5°54'16  | 0♎46  | 21°23 | 22°43 | 4°23  | 29°15 | 13°19 | 24°11  | 27°28  | 20°28  | 22°43  | 23°27 | 2°22  | 25°37  |
| F 30 | 2 34 37 | 6°54'11  | 13°43 | 22°51 | 23°41 | 4° 8  | 29°18 | 13°24 | 24°R11 | 27°27  | 20°28  | 22°41  | 23°24 | 2°29  | 25°35  |
| S 31 | 2 38 33 | 7♎54'09  | 26♎55 | 24♎19 | 24♎38 | 3♎53  | 29♎22 | 13♎30 | 24♎11  | 27♎25  | 20♎28  | 22°D41 | 23♎21 | 2♎35  | 25♎33  |

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SWISS EPHEMERIS for the year 2037

NOVEMBER 2037

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀      | ♂     | ♂     | ♂      | ♂     | ♂      | ♂      | ♂      | ♂      | ♂     | ♂     | ♂      |
|------|---------|----------|-------|--------|-------|-------|--------|-------|--------|--------|--------|--------|-------|-------|--------|
| S 1  | 2 42 30 | 8♍54°08  | 10♌26 | 25♍46  | 25♌35 | 3°R38 | 29♌25  | 13♍35 | 24°R11 | 27°R23 | 20°R28 | 22°R41 | 23♌18 | 2°Y42 | 25°R31 |
| M 2  | 2 46 26 | 9°54'10  | 24°18 | 27°13  | 26°31 | 3♌21  | 29°27  | 13°41 | 24♌11  | 27°Y22 | 20♌28  | 22♌40  | 23°15 | 2°49  | 25♌28  |
| T 3  | 2 50 23 | 10°54'14 | 8♍32  | 28°39  | 27°27 | 3° 4  | 29°30  | 13°46 | 24°11  | 27°20  | 20°D28 | 22°38  | 23°12 | 2°55  | 25°26  |
| W 4  | 2 54 20 | 11°54'20 | 23° 6 | 0♌ 5   | 28°22 | 2°46  | 29°33  | 13°51 | 24°11  | 27°18  | 20°28  | 22°32  | 23° 8 | 3° 2  | 25°24  |
| T 5  | 2 58 16 | 12°54'28 | 7♌56  | 1°29   | 29°17 | 2°28  | 29°35  | 13°56 | 24°10  | 27°17  | 20°28  | 22°24  | 23° 5 | 3° 9  | 25°22  |
| F 6  | 3 2 13  | 13°54'38 | 22°56 | 2°53   | 0♌11  | 2° 9  | 29°37  | 14° 1 | 24°10  | 27°15  | 20°28  | 22°15  | 23° 2 | 3°16  | 25°19  |
| S 7  | 3 6 9   | 14°54'50 | 7♍56  | 4°17   | 1° 5  | 1°49  | 29°39  | 14° 6 | 24°10  | 27°14  | 20°28  | 22° 4  | 22°59 | 3°22  | 25°17  |
| S 8  | 3 10 6  | 15°55'04 | 22°47 | 5°39   | 1°58  | 1°29  | 29°41  | 14°11 | 24° 9  | 27°12  | 20°28  | 21°54  | 22°56 | 3°29  | 25°14  |
| M 9  | 3 14 2  | 16°55'20 | 7♌20  | 7° 0   | 2°50  | 1° 9  | 29°42  | 14°16 | 24° 9  | 27°11  | 20°28  | 21°45  | 22°52 | 3°36  | 25°12  |
| T 10 | 3 17 59 | 17°55'38 | 21°28 | 8°21   | 3°42  | 0°48  | 29°43  | 14°20 | 24° 8  | 27° 9  | 20°29  | 21°39  | 22°49 | 3°42  | 25° 9  |
| W11  | 3 21 55 | 18°55'57 | 5♌ 8  | 9°40   | 4°33  | 0°27  | 29°44  | 14°25 | 24° 7  | 27° 7  | 20°29  | 21°36  | 22°46 | 3°49  | 25° 7  |
| T 12 | 3 25 52 | 19°56'17 | 18°21 | 10°58  | 5°23  | 0° 5  | 29°45  | 14°30 | 24° 7  | 27° 6  | 20°29  | 21°D34 | 22°43 | 3°56  | 25° 4  |
| F 13 | 3 29 49 | 20°56'39 | 1♌ 9  | 12°14  | 6°13  | 29♌43 | 29°46  | 14°34 | 24° 6  | 27° 4  | 20°29  | 21°35  | 22°40 | 4° 3  | 25° 1  |
| S 14 | 3 33 45 | 21°57'02 | 13°35 | 13°29  | 7° 2  | 29°21 | 29°47  | 14°38 | 24° 5  | 27° 3  | 20°29  | 21°35  | 22°37 | 4° 9  | 24°58  |
| S 15 | 3 37 42 | 22°57'27 | 25°44 | 14°42  | 7°49  | 28°59 | 29°47  | 14°43 | 24° 4  | 27° 1  | 20°30  | 21°R36 | 22°33 | 4°16  | 24°55  |
| M16  | 3 41 38 | 23°57'53 | 7♌43  | 15°53  | 8°37  | 28°37 | 29°R47 | 14°47 | 24° 4  | 27° 0  | 20°30  | 21°34  | 22°30 | 4°23  | 24°53  |
| T 17 | 3 45 35 | 24°58'20 | 19°35 | 17° 2  | 9°23  | 28°15 | 29°47  | 14°51 | 24° 3  | 26°59  | 20°30  | 21°31  | 22°27 | 4°29  | 24°50  |
| W18  | 3 49 31 | 25°58'48 | 1°Y25 | 18° 8  | 10° 8 | 27°53 | 29°47  | 14°55 | 24° 2  | 26°57  | 20°31  | 21°25  | 22°24 | 4°36  | 24°47  |
| T 19 | 3 53 28 | 26°59'18 | 13°19 | 19°12  | 10°52 | 27°31 | 29°46  | 14°59 | 24° 1  | 26°56  | 20°31  | 21°17  | 22°21 | 4°43  | 24°43  |
| F 20 | 3 57 24 | 27°59'50 | 25°18 | 20°12  | 11°35 | 27° 9 | 29°46  | 15° 3 | 24° 0  | 26°54  | 20°32  | 21° 8  | 22°18 | 4°50  | 24°40  |
| S 21 | 4 1 21  | 29° 0'22 | 7♌26  | 21° 8  | 12°17 | 26°47 | 29°45  | 15° 7 | 23°58  | 26°53  | 20°32  | 20°58  | 22°14 | 4°56  | 24°37  |
| S 22 | 4 5 18  | 0♌ 0'56  | 19°43 | 22° 0  | 12°58 | 26°25 | 29°44  | 15°10 | 23°57  | 26°52  | 20°33  | 20°48  | 22°11 | 5° 3  | 24°34  |
| M23  | 4 9 14  | 1° 1'32  | 2♌11  | 22°48  | 13°38 | 26° 4 | 29°42  | 15°14 | 23°56  | 26°50  | 20°33  | 20°39  | 22° 8 | 5°10  | 24°31  |
| T 24 | 4 13 11 | 2° 2'09  | 14°51 | 23°30  | 14°17 | 25°43 | 29°41  | 15°17 | 23°55  | 26°49  | 20°34  | 20°31  | 22° 5 | 5°16  | 24°27  |
| W25  | 4 17 7  | 3° 2'47  | 27°41 | 24° 6  | 14°54 | 25°22 | 29°39  | 15°21 | 23°53  | 26°48  | 20°34  | 20°27  | 22° 2 | 5°23  | 24°24  |
| T 26 | 4 21 4  | 4° 3'27  | 10♌42 | 24°35  | 15°30 | 25° 2 | 29°37  | 15°24 | 23°52  | 26°46  | 20°35  | 20°24  | 21°58 | 5°30  | 24°21  |
| F 27 | 4 25 0  | 5° 4'09  | 23°55 | 24°56  | 16° 5 | 24°42 | 29°35  | 15°27 | 23°51  | 26°45  | 20°36  | 20°D24 | 21°55 | 5°37  | 24°17  |
| S 28 | 4 28 57 | 6° 4'52  | 7♌20  | 25° 9  | 16°38 | 24°23 | 29°33  | 15°30 | 23°49  | 26°44  | 20°36  | 20°25  | 21°52 | 5°43  | 24°14  |
| S 29 | 4 32 53 | 7° 5'36  | 20°58 | 25°R13 | 17°10 | 24° 4 | 29°31  | 15°33 | 23°48  | 26°43  | 20°37  | 20°26  | 21°49 | 5°50  | 24°11  |
| M30  | 4 36 50 | 8♌ 6'22  | 4♍48  | 25♌ 8  | 17♌40 | 23♌46 | 29♌28  | 15♍36 | 23♌46  | 26°Y42 | 20♌38  | 20°R27 | 21♌46 | 5°Y57 | 24♍ 7  |

Delta T = 109.07 sec.

DECEMBER 2037

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀      | ♂      | ♂      | ♂      | ♂      | ♂      | ♂      | ♂     | ♂      | ♂     | ♂     | ♂      |
|------|---------|----------|-------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|--------|
| T 1  | 4 40 47 | 9♌ 7'10  | 18♍53 | 24°R51 | 18♌ 9  | 23°R28 | 29°R25 | 15♍39  | 23°R45 | 26°R40 | 20♌38 | 20°R26 | 21♌43 | 6°Y 4 | 24°R 4 |
| W 2  | 4 44 43 | 10° 7'59 | 3♌10  | 24♌24  | 18°36  | 23♌11  | 29♌22  | 15°42  | 23♌43  | 26°Y39 | 20°39 | 20♌24  | 21°39 | 6°10  | 24♍ 0  |
| T 3  | 4 48 40 | 11° 8'49 | 17°37 | 23°45  | 19° 2  | 22°54  | 29°19  | 15°44  | 23°41  | 26°38  | 20°40 | 20°20  | 21°36 | 6°17  | 23°57  |
| F 4  | 4 52 36 | 12° 9'41 | 2♍10  | 22°56  | 19°25  | 22°39  | 29°15  | 15°47  | 23°39  | 26°37  | 20°41 | 20°15  | 21°33 | 6°24  | 23°53  |
| S 5  | 4 56 33 | 13°10'35 | 16°43 | 21°56  | 19°47  | 22°24  | 29°12  | 15°49  | 23°38  | 26°36  | 20°42 | 20° 9  | 21°30 | 6°30  | 23°49  |
| S 6  | 5 0 29  | 14°11'29 | 1♌10  | 20°48  | 20° 7  | 22° 9  | 29° 8  | 15°52  | 23°36  | 26°35  | 20°42 | 20° 3  | 21°27 | 6°37  | 23°46  |
| M 7  | 5 4 26  | 15°12'25 | 15°25 | 19°32  | 20°25  | 21°56  | 29° 4  | 15°54  | 23°34  | 26°34  | 20°43 | 19°58  | 21°24 | 6°44  | 23°42  |
| T 8  | 5 8 22  | 16°13'22 | 29°21 | 18°11  | 20°41  | 21°43  | 29° 0  | 15°56  | 23°32  | 26°33  | 20°44 | 19°55  | 21°20 | 6°51  | 23°38  |
| W 9  | 5 12 19 | 17°14'19 | 12♌55 | 16°48  | 20°55  | 21°31  | 28°56  | 15°58  | 23°30  | 26°32  | 20°45 | 19°53  | 21°17 | 6°57  | 23°35  |
| T 10 | 5 16 16 | 18°15'18 | 26° 7 | 15°26  | 21° 7  | 21°19  | 28°51  | 16° 0  | 23°28  | 26°31  | 20°46 | 19°D53 | 21°14 | 7° 4  | 23°31  |
| F 11 | 5 20 12 | 19°16'17 | 8♌56  | 14° 7  | 21°16  | 21° 9  | 28°46  | 16° 1  | 23°26  | 26°30  | 20°47 | 19°54  | 21°11 | 7°11  | 23°27  |
| S 12 | 5 24 9  | 20°17'17 | 21°25 | 12°54  | 21°24  | 20°59  | 28°41  | 16° 3  | 23°24  | 26°30  | 20°48 | 19°56  | 21° 8 | 7°17  | 23°24  |
| S 13 | 5 28 5  | 21°18'17 | 3♌38  | 11°49  | 21°28  | 20°50  | 28°36  | 16° 5  | 23°22  | 26°29  | 20°49 | 19°58  | 21° 4 | 7°24  | 23°20  |
| M14  | 5 32 2  | 22°19'18 | 15°39 | 10°53  | 21°31  | 20°42  | 28°31  | 16° 6  | 23°20  | 26°28  | 20°50 | 19°59  | 21° 1 | 7°31  | 23°16  |
| T 15 | 5 35 58 | 23°20'19 | 27°33 | 10° 8  | 21°R31 | 20°35  | 28°26  | 16° 7  | 23°18  | 26°27  | 20°51 | 19°R59 | 20°58 | 7°38  | 23°13  |
| W16  | 5 39 55 | 24°21'21 | 9°Y25 | 9°34   | 21°29  | 20°29  | 28°20  | 16° 9  | 23°16  | 26°26  | 20°52 | 19°58  | 20°55 | 7°44  | 23° 9  |
| T 17 | 5 43 51 | 25°22'24 | 21°19 | 9°11   | 21°24  | 20°23  | 28°15  | 16°10  | 23°14  | 26°26  | 20°53 | 19°56  | 20°52 | 7°51  | 23° 5  |
| F 18 | 5 47 48 | 26°23'26 | 3♌21  | 8°59   | 21°16  | 20°19  | 28° 9  | 16°11  | 23°11  | 26°25  | 20°55 | 19°53  | 20°49 | 7°58  | 23° 1  |
| S 19 | 5 51 45 | 27°24'29 | 15°33 | 8°D57  | 21° 6  | 20°15  | 28° 3  | 16°12  | 23° 9  | 26°24  | 20°56 | 19°49  | 20°45 | 8° 4  | 22°58  |
| S 20 | 5 55 41 | 28°25'33 | 27°58 | 9° 5   | 20°54  | 20°12  | 27°57  | 16°12  | 23° 7  | 26°24  | 20°57 | 19°45  | 20°42 | 8°11  | 22°54  |
| M21  | 5 59 38 | 29°26'37 | 10♌38 | 9°22   | 20°39  | 20°10  | 27°51  | 16°13  | 23° 5  | 26°23  | 20°58 | 19°42  | 20°39 | 8°18  | 22°50  |
| T 22 | 6 3 34  | 0♌27'42  | 23°34 | 9°46   | 20°22  | 20° 8  | 27°44  | 16°14  | 23° 2  | 26°23  | 20°59 | 19°39  | 20°36 | 8°25  | 22°47  |
| W23  | 6 7 31  | 1°28'47  | 6♌46  | 10°19  | 20° 2  | 20°D 8 | 27°38  | 16°14  | 23° 0  | 26°22  | 21° 0 | 19°38  | 20°33 | 8°31  | 22°43  |
| T 24 | 6 11 27 | 2°29'52  | 20°12 | 10°57  | 19°40  | 20° 8  | 27°31  | 16°14  | 22°58  | 26°22  | 21° 2 | 19°D37 | 20°30 | 8°38  | 22°39  |
| F 25 | 6 15 24 | 3°30'58  | 3♌51  | 11°42  | 19°16  | 20° 9  | 27°24  | 16°15  | 22°55  | 26°21  | 21° 3 | 19°38  | 20°26 | 8°45  | 22°36  |
| S 26 | 6 19 20 | 4°32'05  | 17°41 | 12°31  | 18°49  | 20°10  | 27°17  | 16°R15 | 22°53  | 26°21  | 21° 4 | 19°39  | 20°23 | 8°52  | 22°32  |
| S 27 | 6 23 17 | 5°33'12  | 1♍39  | 13°26  | 18°21  | 20°13  | 27°11  | 16°15  | 22°50  | 26°21  | 21° 6 | 19°40  | 20°20 | 8°58  | 22°29  |
| M28  | 6 27 14 | 6°34'19  | 15°44 | 14°24  | 17°51  | 20°16  | 27° 3  | 16°15  | 22°48  | 26°20  | 21° 7 | 19°41  | 20°17 | 9° 5  | 22°25  |
| T 29 | 6 31 10 | 7°35'27  | 29°52 | 15°26  | 17°20  | 20°20  | 26°56  | 16°14  | 22°45  | 26°20  | 21° 8 | 19°42  | 20°14 | 9°12  | 22°21  |
| W30  | 6 35 7  | 8°36'36  | 14♌ 3 | 16°31  | 16°47  | 20°25  | 26°49  | 16°14  | 22°43  | 26°20  | 21°10 | 19°R42 | 20°10 | 9°18  | 22°18  |
| T 31 | 6 39 3  | 9♌37'45  | 28♌15 | 17♌39  | 16♌12  | 20♌30  | 26♌42  | 16♍14  | 22♌40  | 26°Y19 | 21♌11 | 19♌41  | 20♌ 7 | 9°Y25 | 22♍14  |

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