

SWISS EPHEMERIS for the year 2087

JANUARY 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|-------|--------|-------|-------|--------|-------|-------|--------|--------|-------|------|-------|--------|
| W 1 | 6 43 33 | 10♌45'53 | 25♍12 | 20♎10 | 2♏40 | 3°R53 | 18♐54 | 23♑21 | 27♒24 | 18°R17 | 19°R26 | 3♓51 | 2♔22 | 23♕29 | 12°R35 |
| T 2 | 6 47 30 | 11°47'03 | 7♊26 | 21°48 | 3°55 | 3♌30 | 18°54 | 23°22 | 27°27 | 18♌15 | 19°V26 | 3°R51 | 2°19 | 23°35 | 12♑32 |
| F 3 | 6 51 26 | 12°48'14 | 19°55 | 23°25 | 5°10 | 3° 8 | 18°R55 | 23°23 | 27°29 | 18°14 | 19°D26 | 3°50 | 2°16 | 23°42 | 12°29 |
| S 4 | 6 55 23 | 13°49'24 | 2♌42 | 25° 2 | 6°25 | 2°46 | 18°54 | 23°24 | 27°32 | 18°13 | 19°26 | 3°47 | 2°12 | 23°49 | 12°26 |
| S 5 | 6 59 19 | 14°50'35 | 15°46 | 26°40 | 7°40 | 2°25 | 18°54 | 23°25 | 27°35 | 18°11 | 19°27 | 3°41 | 2° 9 | 23°55 | 12°23 |
| M 6 | 7 3 16 | 15°51'45 | 29° 8 | 28°17 | 8°55 | 2° 4 | 18°54 | 23°26 | 27°38 | 18°10 | 19°27 | 3°35 | 2° 6 | 24° 2 | 12°20 |
| T 7 | 7 7 13 | 16°52'55 | 12♋45 | 29°54 | 10° 9 | 1°44 | 18°53 | 23°28 | 27°40 | 18° 9 | 19°27 | 3°27 | 2° 3 | 24° 9 | 12°18 |
| W 8 | 7 11 9 | 17°54'05 | 26°33 | 1♌30 | 11°24 | 1°24 | 18°52 | 23°29 | 27°43 | 18° 7 | 19°27 | 3°19 | 2° 0 | 24°15 | 12°15 |
| T 9 | 7 15 6 | 18°55'15 | 10♋31 | 3° 6 | 12°39 | 1° 5 | 18°51 | 23°31 | 27°46 | 18° 6 | 19°27 | 3°13 | 1°56 | 24°22 | 12°12 |
| F 10 | 7 19 2 | 19°56'24 | 24°34 | 4°42 | 13°54 | 0°47 | 18°50 | 23°32 | 27°49 | 18° 4 | 19°27 | 3° 8 | 1°53 | 24°29 | 12°10 |
| S 11 | 7 22 59 | 20°57'33 | 9♌41 | 6°16 | 15° 9 | 0°29 | 18°49 | 23°34 | 27°52 | 18° 3 | 19°27 | 3° 5 | 1°50 | 24°35 | 12° 7 |
| S 12 | 7 26 55 | 21°58'41 | 22°48 | 7°49 | 16°23 | 0°12 | 18°47 | 23°36 | 27°55 | 18° 2 | 19°27 | 3°D 4 | 1°47 | 24°42 | 12° 5 |
| M13 | 7 30 52 | 22°59'49 | 6♌55 | 9°21 | 17°38 | 29♑55 | 18°45 | 23°38 | 27°58 | 18° 0 | 19°28 | 3° 5 | 1°44 | 24°49 | 12° 2 |
| T 14 | 7 34 48 | 24° 0'56 | 21° 0 | 10°51 | 18°53 | 29°40 | 18°43 | 23°40 | 28° 1 | 17°59 | 19°28 | 3° 6 | 1°41 | 24°55 | 12° 0 |
| W15 | 7 38 45 | 25° 2'03 | 5♑ 2 | 12°19 | 20° 7 | 29°25 | 18°41 | 23°42 | 28° 4 | 17°57 | 19°28 | 3°R 7 | 1°37 | 25° 2 | 11°58 |
| T 16 | 7 42 42 | 26° 3'09 | 19° 0 | 13°44 | 21°22 | 29°11 | 18°38 | 23°44 | 28° 7 | 17°56 | 19°29 | 3° 6 | 1°34 | 25° 9 | 11°55 |
| F 17 | 7 46 38 | 27° 4'14 | 2♌52 | 15° 6 | 22°37 | 28°57 | 18°36 | 23°47 | 28°10 | 17°54 | 19°29 | 3° 2 | 1°31 | 25°15 | 11°53 |
| S 18 | 7 50 35 | 28° 5'19 | 16°34 | 16°25 | 23°51 | 28°45 | 18°33 | 23°49 | 28°13 | 17°52 | 19°29 | 2°56 | 1°28 | 25°22 | 11°51 |
| S 19 | 7 54 31 | 29° 6'23 | 0♑ 3 | 17°39 | 25° 6 | 28°33 | 18°30 | 23°52 | 28°16 | 17°51 | 19°30 | 2°47 | 1°25 | 25°29 | 11°49 |
| M20 | 7 58 28 | 0♌ 7'26 | 13°17 | 18°48 | 26°20 | 28°22 | 18°27 | 23°54 | 28°19 | 17°49 | 19°30 | 2°37 | 1°22 | 25°35 | 11°47 |
| T 21 | 8 2 24 | 1° 8'29 | 26°15 | 19°51 | 27°35 | 28°11 | 18°24 | 23°57 | 28°23 | 17°48 | 19°30 | 2°26 | 1°18 | 25°42 | 11°45 |
| W22 | 8 6 21 | 2° 9'32 | 8♑54 | 20°47 | 28°49 | 28° 2 | 18°20 | 24° 0 | 28°26 | 17°46 | 19°31 | 2°15 | 1°15 | 25°49 | 11°43 |
| T 23 | 8 10 18 | 3°10'34 | 21°17 | 21°36 | 0♋ 4 | 27°53 | 18°17 | 24° 3 | 28°29 | 17°45 | 19°31 | 2° 6 | 1°12 | 25°55 | 11°41 |
| F 24 | 8 14 14 | 4°11'35 | 3♌26 | 22°17 | 1°18 | 27°46 | 18°13 | 24° 6 | 28°32 | 17°43 | 19°32 | 1°59 | 1° 9 | 26° 2 | 11°40 |
| S 25 | 8 18 11 | 5°12'36 | 15°23 | 22°48 | 2°32 | 27°38 | 18° 9 | 24° 9 | 28°35 | 17°41 | 19°32 | 1°54 | 1° 6 | 26° 9 | 11°38 |
| S 26 | 8 22 7 | 6°13'37 | 27°14 | 23° 9 | 3°47 | 27°32 | 18° 5 | 24°13 | 28°39 | 17°40 | 19°33 | 1°52 | 1° 2 | 26°15 | 11°36 |
| M27 | 8 26 4 | 7°14'37 | 9♌ 2 | 23°R20 | 5° 1 | 27°27 | 18° 0 | 24°16 | 28°42 | 17°38 | 19°33 | 1°D52 | 0°59 | 26°22 | 11°35 |
| T 28 | 8 30 0 | 8°15'36 | 20°55 | 23°20 | 6°15 | 27°22 | 17°56 | 24°20 | 28°45 | 17°36 | 19°34 | 1°52 | 0°56 | 26°29 | 11°33 |
| W29 | 8 33 57 | 9°16'35 | 2♌56 | 23° 8 | 7°30 | 27°18 | 17°51 | 24°23 | 28°48 | 17°35 | 19°34 | 1°R53 | 0°53 | 26°35 | 11°32 |
| T 30 | 8 37 53 | 10°17'34 | 15°12 | 22°45 | 8°44 | 27°15 | 17°46 | 24°27 | 28°52 | 17°33 | 19°35 | 1°52 | 0°50 | 26°42 | 11°31 |
| F 31 | 8 41 50 | 11°18'31 | 27♌47 | 22°11 | 9♋58 | 27♑13 | 17♑41 | 24♑31 | 28°55 | 17♌31 | 19♑36 | 1♓49 | 0♔47 | 26♕49 | 11♑29 |

Delta T = 194.60 sec.

FEBRUARY 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|--------|-------|--------|--------|-------|-------|--------|-------|--------|-------|-------|--------|
| S 1 | 8 45 47 | 12♌19'28 | 10♌44 | 21°R26 | 11♋12 | 27°R12 | 17°R36 | 24♑35 | 28°58 | 17°R30 | 19♑36 | 1°R43 | 0♔43 | 26♕55 | 11°R28 |
| S 2 | 8 49 43 | 13°20'24 | 24° 4 | 20♋33 | 12°26 | 27°D11 | 17♑31 | 24°39 | 29° 2 | 17♌28 | 19°37 | 1♓35 | 0°40 | 27° 2 | 11♑27 |
| M 3 | 8 53 40 | 14°21'19 | 7♋47 | 19°31 | 13°40 | 27♑11 | 17°25 | 24°43 | 29° 5 | 17°26 | 19°38 | 1°24 | 0°37 | 27° 9 | 11°26 |
| T 4 | 8 57 36 | 15°22'14 | 21°50 | 18°24 | 14°54 | 27°12 | 17°20 | 24°47 | 29° 9 | 17°25 | 19°38 | 1°12 | 0°34 | 27°15 | 11°25 |
| W 5 | 9 1 33 | 16°23'06 | 6♋ 8 | 17°13 | 16° 8 | 27°14 | 17°14 | 24°51 | 29°12 | 17°23 | 19°39 | 1° 0 | 0°31 | 27°22 | 11°24 |
| T 6 | 9 5 29 | 17°23'58 | 20°34 | 16° 0 | 17°22 | 27°16 | 17° 8 | 24°55 | 29°15 | 17°21 | 19°40 | 0°49 | 0°28 | 27°29 | 11°23 |
| F 7 | 9 9 26 | 18°24'48 | 5♑ 2 | 14°47 | 18°36 | 27°19 | 17° 2 | 25° 0 | 29°19 | 17°20 | 19°41 | 0°41 | 0°24 | 27°35 | 11°22 |
| S 8 | 9 13 22 | 19°25'37 | 19°27 | 13°37 | 19°50 | 27°23 | 16°56 | 25° 4 | 29°22 | 17°18 | 19°41 | 0°35 | 0°21 | 27°42 | 11°22 |
| S 9 | 9 17 19 | 20°26'25 | 3♌44 | 12°30 | 21° 4 | 27°27 | 16°49 | 25° 9 | 29°26 | 17°16 | 19°42 | 0°33 | 0°18 | 27°49 | 11°21 |
| M10 | 9 21 15 | 21°27'10 | 17°52 | 11°29 | 22°17 | 27°33 | 16°43 | 25°13 | 29°29 | 17°14 | 19°43 | 0°D32 | 0°15 | 27°55 | 11°21 |
| T 11 | 9 25 12 | 22°27'55 | 1♑49 | 10°34 | 23°31 | 27°38 | 16°36 | 25°18 | 29°33 | 17°13 | 19°44 | 0°R32 | 0°12 | 28° 2 | 11°20 |
| W12 | 9 29 9 | 23°28'38 | 15°35 | 9°46 | 24°45 | 27°45 | 16°30 | 25°23 | 29°36 | 17°11 | 19°45 | 0°31 | 0° 8 | 28° 9 | 11°20 |
| T 13 | 9 33 5 | 24°29'19 | 29°12 | 9° 6 | 25°58 | 27°52 | 16°23 | 25°28 | 29°39 | 17° 9 | 19°46 | 0°29 | 0° 5 | 28°15 | 11°19 |
| F 14 | 9 37 2 | 25°29'58 | 12♌38 | 8°34 | 27°12 | 28° 0 | 16°16 | 25°33 | 29°43 | 17° 8 | 19°46 | 0°24 | 0° 2 | 28°22 | 11°19 |
| S 15 | 9 40 58 | 26°30'36 | 25°54 | 8°10 | 28°25 | 28° 8 | 16° 9 | 25°38 | 29°46 | 17° 6 | 19°47 | 0°15 | 29♑59 | 28°29 | 11°19 |
| S 16 | 9 44 55 | 27°31'13 | 9♌ 0 | 7°54 | 29°39 | 28°17 | 16° 2 | 25°43 | 29°50 | 17° 4 | 19°48 | 0° 4 | 29°56 | 28°36 | 11°19 |
| M17 | 9 48 51 | 28°31'47 | 21°54 | 7°46 | 0♑52 | 28°27 | 15°55 | 25°48 | 29°53 | 17° 3 | 19°49 | 29♑51 | 29°53 | 28°42 | 11°D19 |
| T 18 | 9 52 48 | 29°32'21 | 4♑36 | 7°D44 | 2° 5 | 28°37 | 15°48 | 25°54 | 29°57 | 17° 1 | 19°50 | 29°37 | 29°49 | 28°49 | 11°19 |
| W19 | 9 56 44 | 0♋32'52 | 17° 4 | 7°50 | 3°19 | 28°48 | 15°40 | 25°59 | 0♋ 0 | 17° 0 | 19°51 | 29°23 | 29°46 | 28°55 | 11°19 |
| T 20 | 10 0 41 | 1°33'23 | 29°20 | 8° 3 | 4°32 | 29° 0 | 15°33 | 26° 4 | 0° 4 | 16°58 | 19°52 | 29°11 | 29°43 | 29° 2 | 11°19 |
| F 21 | 10 4 38 | 2°33'51 | 11♌24 | 8°21 | 5°45 | 29°11 | 15°26 | 26°10 | 0° 7 | 16°56 | 19°53 | 29° 1 | 29°40 | 29° 9 | 11°19 |
| S 22 | 10 8 34 | 3°34'19 | 23°19 | 8°45 | 6°58 | 29°24 | 15°18 | 26°15 | 0°11 | 16°55 | 19°54 | 28°54 | 29°37 | 29°15 | 11°20 |
| S 23 | 10 12 31 | 4°34'45 | 5♌ 9 | 9°14 | 8°11 | 29°37 | 15°11 | 26°21 | 0°14 | 16°53 | 19°55 | 28°49 | 29°34 | 29°22 | 11°20 |
| M24 | 10 16 27 | 5°35'10 | 16°56 | 9°48 | 9°24 | 29°50 | 15° 3 | 26°27 | 0°17 | 16°51 | 19°56 | 28°47 | 29°30 | 29°29 | 11°21 |
| T 25 | 10 20 24 | 6°35'33 | 28°47 | 10°27 | 10°37 | 0♌ 4 | 14°55 | 26°32 | 0°21 | 16°50 | 19°57 | 28°D47 | 29°27 | 29°35 | 11°21 |
| W26 | 10 24 20 | 7°35'55 | 10♌47 | 11° 9 | 11°49 | 0°19 | 14°48 | 26°38 | 0°24 | 16°48 | 19°58 | 28°R47 | 29°24 | 29°42 | 11°22 |
| T 27 | 10 28 17 | 8°36'16 | 23° 1 | 11°56 | 13° 2 | 0°34 | 14°40 | 26°44 | 0°28 | 16°47 | 20° 0 | 28°46 | 29°21 | 29°49 | 11°23 |
| F 28 | 10 32 13 | 9♋36'35 | 5♌35 | 12♋46 | 14♑15 | 0♌49 | 14♑32 | 26♑50 | 0♋31 | 16♌45 | 20♑ 1 | 28♑44 | 29♑18 | 29♕55 | 11♑23 |

Delta T = 194.76 sec.

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SWISS EPHEMERIS for the year 2087

MARCH 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|---------|-------|-------|-------|--------|-------|------|--------|-------|--------|--------|-------|---------|
| S 1 | 10 36 10 | 10X36°53 | 18Z33 | 13X39 | 15Y27 | 1E 5 | 14°R24 | 26Y56 | 0X35 | 16°R44 | 20Y 2 | 28°R39 | 29M.14 | 0M. 2 | 11II.24 |
| S 2 | 10 40 7 | 11°37'09 | 1X58 | 14°35 | 16°40 | 1°22 | 14M.16 | 27° 2 | 0°38 | 16Q.42 | 20° 3 | 28M.31 | 29°11 | 0° 9 | 11°25 |
| M 3 | 10 44 3 | 12°37'24 | 15°50 | 15°34 | 17°52 | 1°38 | 14° 8 | 27° 8 | 0°42 | 16°41 | 20° 4 | 28°21 | 29° 8 | 0°15 | 11°26 |
| T 4 | 10 48 0 | 13°37'37 | 0X 8 | 16°36 | 19° 5 | 1°56 | 14° 1 | 27°15 | 0°45 | 16°39 | 20° 5 | 28°10 | 29° 5 | 0°22 | 11°27 |
| W 5 | 10 51 56 | 14°37'48 | 14°47 | 17°40 | 20°17 | 2°13 | 13°53 | 27°21 | 0°48 | 16°38 | 20° 6 | 27°58 | 29° 2 | 0°29 | 11°28 |
| T 6 | 10 55 53 | 15°37'58 | 29°37 | 18°47 | 21°29 | 2°31 | 13°45 | 27°27 | 0°52 | 16°36 | 20° 8 | 27°48 | 28°59 | 0°35 | 11°30 |
| F 7 | 10 59 49 | 16°38'05 | 14Y32 | 19°56 | 22°41 | 2°50 | 13°37 | 27°34 | 0°55 | 16°35 | 20° 9 | 27°40 | 28°55 | 0°42 | 11°31 |
| S 8 | 11 3 46 | 17°38'11 | 29°21 | 21° 7 | 23°53 | 3° 9 | 13°29 | 27°40 | 0°58 | 16°34 | 20°10 | 27°34 | 28°52 | 0°49 | 11°32 |
| S 9 | 11 7 42 | 18°38'14 | 13Z59 | 22°19 | 25° 5 | 3°28 | 13°21 | 27°47 | 1° 2 | 16°32 | 20°11 | 27°32 | 28°49 | 0°55 | 11°34 |
| M10 | 11 11 39 | 19°38'16 | 28°21 | 23°34 | 26°17 | 3°47 | 13°14 | 27°53 | 1° 5 | 16°31 | 20°13 | 27°D31 | 28°46 | 1° 2 | 11°35 |
| T 11 | 11 15 36 | 20°38'15 | 12II.24 | 24°50 | 27°29 | 4° 7 | 13° 6 | 28° 0 | 1° 8 | 16°29 | 20°14 | 27°31 | 28°43 | 1° 9 | 11°37 |
| W12 | 11 19 32 | 21°38'12 | 26° 9 | 26° 8 | 28°40 | 4°28 | 12°58 | 28° 6 | 1°12 | 16°28 | 20°15 | 27°R31 | 28°39 | 1°15 | 11°39 |
| T 13 | 11 23 29 | 22°38'07 | 9E37 | 27°28 | 29°52 | 4°48 | 12°50 | 28°13 | 1°15 | 16°27 | 20°16 | 27°30 | 28°36 | 1°22 | 11°40 |
| F 14 | 11 27 25 | 23°37'59 | 22°49 | 28°49 | 1X 3 | 5° 9 | 12°43 | 28°20 | 1°18 | 16°26 | 20°18 | 27°26 | 28°33 | 1°29 | 11°42 |
| S 15 | 11 31 22 | 24°37'50 | 5Q.47 | 0X12 | 2°15 | 5°31 | 12°35 | 28°27 | 1°22 | 16°24 | 20°19 | 27°20 | 28°30 | 1°35 | 11°44 |
| S 16 | 11 35 18 | 25°37'38 | 18°33 | 1°36 | 3°26 | 5°53 | 12°28 | 28°33 | 1°25 | 16°23 | 20°20 | 27°12 | 28°27 | 1°42 | 11°46 |
| M17 | 11 39 15 | 26°37'24 | 1M. 8 | 3° 2 | 4°37 | 6°15 | 12°20 | 28°40 | 1°28 | 16°22 | 20°22 | 27° 1 | 28°24 | 1°49 | 11°48 |
| T 18 | 11 43 11 | 27°37'08 | 13°32 | 4°29 | 5°48 | 6°37 | 12°13 | 28°47 | 1°31 | 16°21 | 20°23 | 26°50 | 28°20 | 1°55 | 11°50 |
| W19 | 11 47 8 | 28°36'50 | 25°46 | 5°57 | 6°59 | 6°59 | 12° 6 | 28°54 | 1°34 | 16°19 | 20°24 | 26°39 | 28°17 | 2° 2 | 11°52 |
| T 20 | 11 51 5 | 29°36'30 | 7E.51 | 7°27 | 8°10 | 7°22 | 11°58 | 29° 1 | 1°38 | 16°18 | 20°26 | 26°29 | 28°14 | 2° 9 | 11°54 |
| F 21 | 11 55 1 | 0Y36°07 | 19°48 | 8°58 | 9°21 | 7°45 | 11°51 | 29° 8 | 1°41 | 16°17 | 20°27 | 26°21 | 28°11 | 2°15 | 11°56 |
| S 22 | 11 58 58 | 1°35'43 | 1M.40 | 10°31 | 10°31 | 8° 9 | 11°44 | 29°15 | 1°44 | 16°16 | 20°28 | 26°15 | 28° 8 | 2°22 | 11°59 |
| S 23 | 12 2 54 | 2°35'18 | 13°27 | 12° 5 | 11°42 | 8°33 | 11°37 | 29°22 | 1°47 | 16°15 | 20°30 | 26°12 | 28° 5 | 2°29 | 12° 1 |
| M24 | 12 6 51 | 3°34'50 | 25°15 | 13°40 | 12°52 | 8°57 | 11°30 | 29°29 | 1°50 | 16°14 | 20°31 | 26°D11 | 28° 1 | 2°35 | 12° 4 |
| T 25 | 12 10 47 | 4°34'20 | 7X. 6 | 15°16 | 14° 2 | 9°21 | 11°24 | 29°37 | 1°53 | 16°13 | 20°32 | 26°11 | 27°58 | 2°42 | 12° 6 |
| W26 | 12 14 44 | 5°33'49 | 19° 5 | 16°54 | 15°13 | 9°45 | 11°17 | 29°44 | 1°56 | 16°12 | 20°34 | 26°12 | 27°55 | 2°49 | 12° 9 |
| T 27 | 12 18 40 | 6°33'16 | 1Z17 | 18°33 | 16°23 | 10°10 | 11°11 | 29°51 | 1°59 | 16°11 | 20°35 | 26°R13 | 27°52 | 2°55 | 12°11 |
| F 28 | 12 22 37 | 7°32'42 | 13°48 | 20°13 | 17°33 | 10°35 | 11° 4 | 29°58 | 2° 2 | 16°10 | 20°36 | 26°13 | 27°49 | 3° 2 | 12°14 |
| S 29 | 12 26 33 | 8°32'05 | 26°42 | 21°55 | 18°42 | 11° 0 | 10°58 | 0X 6 | 2° 5 | 16° 9 | 20°38 | 26°12 | 27°45 | 3° 9 | 12°17 |
| S 30 | 12 30 30 | 9°31'27 | 10X. 3 | 23°38 | 19°52 | 11°26 | 10°52 | 0°13 | 2° 8 | 16° 8 | 20°39 | 26° 8 | 27°42 | 3°15 | 12°20 |
| M31 | 12 34 27 | 10Y30°47 | 23X53 | 25X23 | 21X 2 | 11E51 | 10M.46 | 0Z20 | 2X11 | 16Q. 8 | 20Y41 | 26M. 3 | 27M.39 | 3M.22 | 12II.22 |

Delta T = 194.91 sec.

APRIL 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|--------|-------|---------|-------|--------|------|------|--------|-------|--------|--------|-------|---------|
| T 1 | 12 38 23 | 11Y30°05 | 8X11 | 27X 8 | 22Z11 | 12E17 | 10°R40 | 0Z28 | 2X14 | 16°R 7 | 20Y42 | 25°R56 | 27M.36 | 3M.29 | 12II.25 |
| W 2 | 12 42 20 | 12°29'21 | 22°54 | 28°56 | 23°20 | 12°43 | 10M.34 | 0°35 | 2°17 | 16Q. 6 | 20°43 | 25M.49 | 27°33 | 3°35 | 12°28 |
| T 3 | 12 46 16 | 13°28'35 | 7Y55 | 0Y44 | 24°29 | 13°10 | 10°28 | 0°42 | 2°19 | 16° 5 | 20°45 | 25°43 | 27°30 | 3°42 | 12°31 |
| F 4 | 12 50 13 | 14°27'47 | 23° 5 | 2°34 | 25°38 | 13°36 | 10°23 | 0°50 | 2°22 | 16° 4 | 20°46 | 25°38 | 27°26 | 3°49 | 12°35 |
| S 5 | 12 54 9 | 15°26'58 | 8Z14 | 4°26 | 26°47 | 14° 3 | 10°17 | 0°57 | 2°25 | 16° 4 | 20°48 | 25°35 | 27°23 | 3°55 | 12°38 |
| S 6 | 12 58 6 | 16°26'06 | 23°12 | 6°18 | 27°56 | 14°30 | 10°12 | 1° 5 | 2°28 | 16° 3 | 20°49 | 25°D34 | 27°20 | 4° 2 | 12°41 |
| M 7 | 13 2 2 | 17°25'12 | 7II.52 | 8°12 | 29° 5 | 14°57 | 10° 7 | 1°12 | 2°30 | 16° 2 | 20°51 | 25°34 | 27°17 | 4° 9 | 12°44 |
| T 8 | 13 5 59 | 18°24'15 | 22°11 | 10° 8 | 0II.13 | 15°24 | 10° 2 | 1°20 | 2°33 | 16° 2 | 20°52 | 25°35 | 27°14 | 4°15 | 12°48 |
| W 9 | 13 9 56 | 19°23'17 | 6E 6 | 12° 5 | 1°21 | 15°52 | 9°57 | 1°27 | 2°36 | 16° 1 | 20°53 | 25°37 | 27°11 | 4°22 | 12°51 |
| T 10 | 13 13 52 | 20°22'16 | 19°37 | 14° 3 | 2°29 | 16°20 | 9°53 | 1°35 | 2°38 | 16° 1 | 20°55 | 25°R37 | 27° 7 | 4°28 | 12°54 |
| F 11 | 13 17 49 | 21°21'12 | 2A.21 | 16° 3 | 3°37 | 16°48 | 9°48 | 1°42 | 2°41 | 16° 0 | 20°56 | 25°37 | 27° 4 | 4°35 | 12°58 |
| S 12 | 13 21 45 | 22°20'07 | 15°37 | 18° 4 | 4°45 | 17°16 | 9°44 | 1°50 | 2°43 | 16° 0 | 20°58 | 25°35 | 27° 1 | 4°42 | 13° 1 |
| S 13 | 13 25 42 | 23°18'59 | 28°12 | 20° 6 | 5°52 | 17°44 | 9°40 | 1°58 | 2°46 | 15°59 | 20°59 | 25°31 | 26°58 | 4°48 | 13° 5 |
| M14 | 13 29 38 | 24°17'48 | 10M.33 | 22° 9 | 7° 0 | 18°12 | 9°36 | 2° 5 | 2°48 | 15°59 | 21° 1 | 25°26 | 26°55 | 4°55 | 13° 8 |
| T 15 | 13 33 35 | 25°16'36 | 22°44 | 24°14 | 8° 7 | 18°41 | 9°32 | 2°13 | 2°51 | 15°58 | 21° 2 | 25°21 | 26°51 | 5° 2 | 13°12 |
| W16 | 13 37 31 | 26°15'21 | 4E.46 | 26°19 | 9°14 | 19°10 | 9°29 | 2°21 | 2°53 | 15°58 | 21° 3 | 25°16 | 26°48 | 5° 8 | 13°16 |
| T 17 | 13 41 28 | 27°14'05 | 16°41 | 28°25 | 10°21 | 19°38 | 9°26 | 2°28 | 2°56 | 15°58 | 21° 5 | 25°11 | 26°45 | 5°15 | 13°20 |
| F 18 | 13 45 25 | 28°12'46 | 28°32 | 0Z32 | 11°27 | 20° 7 | 9°22 | 2°36 | 2°58 | 15°57 | 21° 6 | 25° 8 | 26°42 | 5°22 | 13°23 |
| S 19 | 13 49 21 | 29°11'26 | 10M.21 | 2°39 | 12°34 | 20°37 | 9°19 | 2°43 | 3° 0 | 15°57 | 21° 8 | 25° 5 | 26°39 | 5°28 | 13°27 |
| S 20 | 13 53 18 | 0Z10°03 | 22° 9 | 4°46 | 13°40 | 21° 6 | 9°16 | 2°51 | 3° 2 | 15°57 | 21° 9 | 25°D 4 | 26°36 | 5°35 | 13°31 |
| M21 | 13 57 14 | 1° 8'39 | 3X.59 | 6°53 | 14°46 | 21°35 | 9°14 | 2°59 | 3° 5 | 15°57 | 21°10 | 25° 5 | 26°32 | 5°42 | 13°35 |
| T 22 | 14 1 11 | 2° 7'13 | 15°54 | 9° 0 | 15°52 | 22° 5 | 9°11 | 3° 6 | 3° 7 | 15°57 | 21°12 | 25° 6 | 26°29 | 5°48 | 13°39 |
| W23 | 14 5 7 | 3° 5'45 | 27°57 | 11° 6 | 16°57 | 22°35 | 9° 9 | 3°14 | 3° 9 | 15°56 | 21°13 | 25° 7 | 26°26 | 5°55 | 13°43 |
| T 24 | 14 9 4 | 4° 4'16 | 10Z13 | 13°11 | 18° 2 | 23° 5 | 9° 7 | 3°22 | 3°11 | 15°56 | 21°15 | 25° 9 | 26°23 | 6° 2 | 13°47 |
| F 25 | 14 13 0 | 5° 2'45 | 22°44 | 15°15 | 19° 8 | 23°35 | 9° 5 | 3°29 | 3°13 | 15°56 | 21°16 | 25°10 | 26°20 | 6° 8 | 13°51 |
| S 26 | 14 16 57 | 6° 1'12 | 5X.36 | 17°17 | 20°12 | 24° 5 | 9° 3 | 3°37 | 3°15 | 15°D56 | 21°17 | 25°R11 | 26°16 | 6°15 | 13°55 |
| S 27 | 14 20 54 | 6°59'38 | 18°51 | 19°17 | 21°17 | 24°35 | 9° 1 | 3°45 | 3°17 | 15°56 | 21°19 | 25°10 | 26°13 | 6°22 | 14° 0 |
| M28 | 14 24 50 | 7°58'02 | 2X32 | 21°15 | 22°21 | 25° 5 | 9° 0 | 3°52 | 3°19 | 15°56 | 21°20 | 25° 9 | 26°10 | 6°28 | 14° 4 |
| T 29 | 14 28 47 | 8°56'25 | 16°41 | 23°11 | 23°25 | 25°36 | 8°59 | 4° 0 | 3°21 | 15°56 | 21°22 | 25° 7 | 26° 7 | 6°35 | 14° 8 |
| W30 | 14 32 43 | 9Z54°46 | 1Y14 | 25Z 4 | 24II.29 | 26E 6 | 8M.58 | 4Z 8 | 3X23 | 15Q.57 | 21Y23 | 25M. 5 | 26M. 4 | 6M.42 | 14II.12 |

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SWISS EPHEMERIS for the year 2087

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|------|----------|----------|-------|--------|-------|-------|-------|------|------|-------|-------|--------|-------|-------|-------|
| T 1 | 14 36 40 | 10♂53'05 | 16♂ 8 | 26♂53 | 25♂33 | 26♂37 | 8°R57 | 4♂15 | 3♂24 | 15♂57 | 21♂24 | 25°R 4 | 26♂ 1 | 6♂48 | 14♂17 |
| F 2 | 14 40 36 | 11°51'23 | 1♂16 | 28°40 | 26°36 | 27° 8 | 8♂56 | 4°23 | 3°26 | 15°57 | 21°26 | 25♂ 2 | 25°57 | 6°55 | 14°21 |
| S 3 | 14 44 33 | 12°49'39 | 16°29 | 0♂23 | 27°39 | 27°39 | 8°55 | 4°30 | 3°28 | 15°57 | 21°27 | 25° 2 | 25°54 | 7° 2 | 14°25 |
| S 4 | 14 48 29 | 13°47'53 | 1♂36 | 2° 2 | 28°42 | 28°10 | 8°55 | 4°38 | 3°30 | 15°57 | 21°28 | 25°D 2 | 25°51 | 7° 8 | 14°30 |
| M 5 | 14 52 26 | 14°46'06 | 16°29 | 3°38 | 29°44 | 28°41 | 8°D55 | 4°46 | 3°31 | 15°58 | 21°30 | 25° 2 | 25°48 | 7°15 | 14°34 |
| T 6 | 14 56 23 | 15°44'17 | 1♂ 2 | 5°10 | 0♂46 | 29°13 | 8°55 | 4°53 | 3°33 | 15°58 | 21°31 | 25° 3 | 25°45 | 7°21 | 14°39 |
| W 7 | 15 0 19 | 16°42'26 | 15° 9 | 6°38 | 1°48 | 29°44 | 8°55 | 5° 1 | 3°34 | 15°58 | 21°32 | 25° 3 | 25°42 | 7°28 | 14°43 |
| T 8 | 15 4 16 | 17°40'32 | 28°50 | 8° 2 | 2°50 | 0♂16 | 8°56 | 5° 8 | 3°36 | 15°59 | 21°34 | 25° 4 | 25°38 | 7°35 | 14°48 |
| F 9 | 15 8 12 | 18°38'37 | 12♂ 5 | 9°22 | 3°51 | 0°47 | 8°56 | 5°16 | 3°37 | 15°59 | 21°35 | 25° 4 | 25°35 | 7°41 | 14°52 |
| S 10 | 15 12 9 | 19°36'40 | 24°57 | 10°38 | 4°52 | 1°19 | 8°57 | 5°23 | 3°39 | 15°59 | 21°36 | 25°R 4 | 25°32 | 7°48 | 14°57 |
| S 11 | 15 16 5 | 20°34'41 | 7♂29 | 11°50 | 5°52 | 1°51 | 8°58 | 5°31 | 3°40 | 16° 0 | 21°37 | 25° 4 | 25°29 | 7°55 | 15° 1 |
| M12 | 15 20 2 | 21°32'40 | 19°44 | 12°57 | 6°52 | 2°23 | 8°59 | 5°38 | 3°41 | 16° 0 | 21°39 | 25° 4 | 25°26 | 8° 1 | 15° 6 |
| T 13 | 15 23 58 | 22°30'37 | 1♂48 | 14° 0 | 7°52 | 2°55 | 9° 1 | 5°46 | 3°43 | 16° 1 | 21°40 | 25° 4 | 25°22 | 8° 8 | 15°11 |
| W14 | 15 27 55 | 23°28'33 | 13°43 | 14°58 | 8°51 | 3°27 | 9° 2 | 5°53 | 3°44 | 16° 1 | 21°41 | 25° 3 | 25°19 | 8°15 | 15°15 |
| T 15 | 15 31 51 | 24°26'27 | 25°33 | 15°53 | 9°50 | 3°59 | 9° 4 | 6° 1 | 3°45 | 16° 2 | 21°42 | 25° 3 | 25°16 | 8°21 | 15°20 |
| F 16 | 15 35 48 | 25°24'19 | 7♂21 | 16°42 | 10°48 | 4°32 | 9° 6 | 6° 8 | 3°46 | 16° 3 | 21°44 | 25°D 3 | 25°13 | 8°28 | 15°25 |
| S 17 | 15 39 45 | 26°22'10 | 19° 9 | 17°27 | 11°46 | 5° 4 | 9° 8 | 6°15 | 3°47 | 16° 3 | 21°45 | 25°R 3 | 25°10 | 8°35 | 15°30 |
| S 18 | 15 43 41 | 27°19'59 | 1♂ 1 | 18° 7 | 12°43 | 5°36 | 9°10 | 6°23 | 3°48 | 16° 4 | 21°46 | 25° 3 | 25° 7 | 8°41 | 15°34 |
| M19 | 15 47 38 | 28°17'47 | 12°57 | 18°43 | 13°40 | 6° 9 | 9°12 | 6°30 | 3°49 | 16° 5 | 21°47 | 25° 3 | 25° 3 | 8°48 | 15°39 |
| T 20 | 15 51 34 | 29°15'33 | 25° 1 | 19°14 | 14°37 | 6°42 | 9°15 | 6°37 | 3°50 | 16° 5 | 21°48 | 25° 3 | 25° 0 | 8°55 | 15°44 |
| W21 | 15 55 31 | 0♂13'18 | 7♂15 | 19°40 | 15°33 | 7°14 | 9°18 | 6°45 | 3°51 | 16° 6 | 21°50 | 25° 2 | 24°57 | 9° 1 | 15°49 |
| T 22 | 15 59 27 | 1°11'02 | 19°40 | 20° 1 | 16°29 | 7°47 | 9°20 | 6°52 | 3°52 | 16° 7 | 21°51 | 25° 1 | 24°54 | 9° 8 | 15°54 |
| F 23 | 16 3 24 | 2° 8'45 | 2♂19 | 20°17 | 17°24 | 8°20 | 9°24 | 6°59 | 3°53 | 16° 8 | 21°52 | 25° 1 | 24°51 | 9°15 | 15°58 |
| S 24 | 16 7 21 | 3° 6'27 | 15°15 | 20°29 | 18°18 | 8°53 | 9°27 | 7° 6 | 3°54 | 16° 9 | 21°53 | 25° 0 | 24°48 | 9°21 | 16° 3 |
| S 25 | 16 11 17 | 4° 4'07 | 28°30 | 20°36 | 19°12 | 9°26 | 9°30 | 7°13 | 3°54 | 16°10 | 21°54 | 25°D 0 | 24°44 | 9°28 | 16° 8 |
| M26 | 16 15 14 | 5° 1'47 | 12♂ 5 | 20°R38 | 20° 5 | 9°59 | 9°34 | 7°20 | 3°55 | 16°11 | 21°55 | 25° 0 | 24°41 | 9°35 | 16°13 |
| T 27 | 16 19 10 | 5°59'25 | 26° 2 | 20°35 | 20°58 | 10°32 | 9°38 | 7°28 | 3°56 | 16°12 | 21°56 | 25° 0 | 24°38 | 9°41 | 16°18 |
| W28 | 16 23 7 | 6°57'03 | 10♂21 | 20°28 | 21°50 | 11° 6 | 9°41 | 7°35 | 3°56 | 16°13 | 21°57 | 25° 1 | 24°35 | 9°48 | 16°23 |
| T 29 | 16 27 3 | 7°54'40 | 24°58 | 20°17 | 22°41 | 11°39 | 9°45 | 7°42 | 3°57 | 16°14 | 21°58 | 25° 2 | 24°32 | 9°54 | 16°28 |
| F 30 | 16 31 0 | 8°52'16 | 9♂50 | 20° 1 | 23°32 | 12°13 | 9°50 | 7°49 | 3°57 | 16°15 | 22° 0 | 25° 3 | 24°28 | 10° 1 | 16°33 |
| S 31 | 16 34 56 | 9♂49'51 | 24♂50 | 19♂42 | 24♂22 | 12♂46 | 9♂54 | 7♂55 | 3♂57 | 16♂16 | 22♂ 1 | 25°R 3 | 24♂25 | 10♂ 8 | 16♂38 |

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|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| S 1 | 16 38 53 | 10♂47'25 | 9♂50 | 19°R19 | 25♂11 | 13♂20 | 9♂59 | 8♂ 2 | 3♂58 | 16♂17 | 22♂ 2 | 25°R 3 | 24♂22 | 10♂14 | 16♂43 |
| M 2 | 16 42 50 | 11°44'58 | 24°42 | 18♂54 | 26° 0 | 13°53 | 10° 3 | 8° 9 | 3°58 | 16°18 | 22° 3 | 25♂ 1 | 24°19 | 10°21 | 16°48 |
| T 3 | 16 46 46 | 12°42'30 | 9♂18 | 18°25 | 26°48 | 14°27 | 10° 8 | 8°16 | 3°58 | 16°19 | 22° 4 | 25° 0 | 24°16 | 10°28 | 16°53 |
| W 4 | 16 50 43 | 13°40'00 | 23°32 | 17°55 | 27°35 | 15° 1 | 10°13 | 8°23 | 3°59 | 16°20 | 22° 4 | 24°57 | 24°13 | 10°34 | 16°58 |
| T 5 | 16 54 39 | 14°37'30 | 7♂20 | 17°23 | 28°21 | 15°35 | 10°18 | 8°29 | 3°59 | 16°22 | 22° 5 | 24°55 | 24° 9 | 10°41 | 17° 3 |
| F 6 | 16 58 36 | 15°34'58 | 20°41 | 16°50 | 29° 6 | 16° 9 | 10°24 | 8°36 | 3°59 | 16°23 | 22° 6 | 24°52 | 24° 6 | 10°48 | 17° 8 |
| S 7 | 17 2 32 | 16°32'25 | 3♂38 | 16°16 | 29°50 | 16°43 | 10°29 | 8°43 | 3°59 | 16°24 | 22° 7 | 24°51 | 24° 3 | 10°54 | 17°13 |
| S 8 | 17 6 29 | 17°29'51 | 16°11 | 15°43 | 0♂34 | 17°17 | 10°35 | 8°49 | 3°R59 | 16°26 | 22° 8 | 24°D50 | 24° 0 | 11° 1 | 17°18 |
| M 9 | 17 10 25 | 18°27'15 | 28°27 | 15°10 | 1°16 | 17°51 | 10°41 | 8°56 | 3°59 | 16°27 | 22° 9 | 24°51 | 23°57 | 11° 8 | 17°23 |
| T 10 | 17 14 22 | 19°24'39 | 10♂29 | 14°39 | 1°57 | 18°25 | 10°47 | 9° 2 | 3°59 | 16°28 | 22°10 | 24°52 | 23°54 | 11°14 | 17°28 |
| W11 | 17 18 19 | 20°22'01 | 22°21 | 14° 9 | 2°38 | 19° 0 | 10°53 | 9° 9 | 3°59 | 16°30 | 22°11 | 24°54 | 23°50 | 11°21 | 17°33 |
| T 12 | 17 22 15 | 21°19'22 | 4♂ 9 | 13°41 | 3°17 | 19°34 | 10°59 | 9°15 | 3°59 | 16°31 | 22°12 | 24°55 | 23°47 | 11°28 | 17°38 |
| F 13 | 17 26 12 | 22°16'43 | 15°57 | 13°17 | 3°55 | 20° 8 | 11° 5 | 9°21 | 3°58 | 16°32 | 22°12 | 24°56 | 23°44 | 11°34 | 17°43 |
| S 14 | 17 30 8 | 23°14'02 | 27°48 | 12°55 | 4°32 | 20°43 | 11°12 | 9°28 | 3°58 | 16°34 | 22°13 | 24°R57 | 23°41 | 11°41 | 17°48 |
| S 15 | 17 34 5 | 24°11'21 | 9♂46 | 12°37 | 5° 7 | 21°17 | 11°18 | 9°34 | 3°58 | 16°35 | 22°14 | 24°56 | 23°38 | 11°47 | 17°52 |
| M16 | 17 38 1 | 25° 8'39 | 21°52 | 12°23 | 5°42 | 21°52 | 11°25 | 9°40 | 3°57 | 16°37 | 22°15 | 24°53 | 23°34 | 11°54 | 17°57 |
| T 17 | 17 41 58 | 26° 5'57 | 4♂10 | 12°12 | 6°15 | 22°27 | 11°32 | 9°46 | 3°57 | 16°38 | 22°15 | 24°50 | 23°31 | 12° 1 | 18° 2 |
| W18 | 17 45 54 | 27° 3'13 | 16°39 | 12° 6 | 6°46 | 23° 1 | 11°39 | 9°52 | 3°56 | 16°40 | 22°16 | 24°45 | 23°28 | 12° 7 | 18° 7 |
| T 19 | 17 49 51 | 28° 0'30 | 29°20 | 12°D 5 | 7°17 | 23°36 | 11°46 | 9°58 | 3°56 | 16°42 | 22°17 | 24°39 | 23°25 | 12°14 | 18°12 |
| F 20 | 17 53 48 | 28°57'46 | 12♂16 | 12° 8 | 7°45 | 24°11 | 11°53 | 10° 4 | 3°55 | 16°43 | 22°18 | 24°34 | 23°22 | 12°21 | 18°17 |
| S 21 | 17 57 44 | 29°55'01 | 25°24 | 12°15 | 8°12 | 24°46 | 12° 1 | 10°10 | 3°55 | 16°45 | 22°18 | 24°29 | 23°19 | 12°27 | 18°22 |
| S 22 | 18 1 41 | 0♂52'16 | 8♂47 | 12°27 | 8°38 | 25°21 | 12° 8 | 10°16 | 3°54 | 16°46 | 22°19 | 24°26 | 23°15 | 12°34 | 18°27 |
| M23 | 18 5 37 | 1°49'31 | 22°25 | 12°44 | 9° 2 | 25°56 | 12°16 | 10°22 | 3°53 | 16°48 | 22°20 | 24°24 | 23°12 | 12°41 | 18°32 |
| T 24 | 18 9 34 | 2°46'46 | 6♂17 | 13° 6 | 9°24 | 26°31 | 12°23 | 10°27 | 3°53 | 16°50 | 22°20 | 24°D24 | 23° 9 | 12°47 | 18°37 |
| W25 | 18 13 30 | 3°44'01 | 20°23 | 13°32 | 9°44 | 27° 6 | 12°31 | 10°33 | 3°52 | 16°52 | 22°21 | 24°24 | 23° 6 | 12°54 | 18°42 |
| T 26 | 18 17 27 | 4°41'16 | 4♂43 | 14° 3 | 10° 3 | 27°41 | 12°39 | 10°38 | 3°51 | 16°53 | 22°21 | 24°26 | 23° 3 | 13° 1 | 18°47 |
| F 27 | 18 21 23 | 5°38'31 | 19°14 | 14°38 | 10°20 | 28°16 | 12°47 | 10°44 | 3°50 | 16°55 | 22°22 | 24°R27 | 23° 0 | 13° 7 | 18°52 |
| S 28 | 18 25 20 | 6°35'46 | 3♂52 | 15°18 | 10°35 | 28°52 | 12°56 | 10°49 | 3°49 | 16°57 | 22°22 | 24°26 | 22°56 | 13°14 | 18°56 |
| S 29 | 18 29 17 | 7°33'00 | 18°33 | 16° 2 | 10°47 | 29°27 | 13° 4 | 10°55 | 3°48 | 16°59 | 22°23 | 24°24 | 22°53 | 13°21 | 19° 1 |
| M30 | 18 33 13 | 8♂30'15 | 3♂ 9 | 16♂51 | 10♂58 | 0♂ 3 | 13♂13 | 11♂ 0 | 3♂47 | 17♂ 0 | 22♂23 | 24♂20 | 22♂50 | 13♂27 | 19♂ 6 |

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SWISS EPHEMERIS for the year 2087

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|------|----------|-----------------------|----------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| T 1 | 18 37 10 | 9 ^h 27'30 | 17 ^h 34 | 17 ^h 44 | 11 ^h 07 | 0 ^h 38 | 13 ^h 21 | 11 ^h 08 | 3 ^h R46 | 17 ^h 02 | 22 ^h 24 | 24 ^h R15 | 22 ^h 47 | 13 ^h 34 | 19 ^h 11 |
| W 2 | 18 41 6 | 10 ^h 24'44 | 1 ^h 42 | 18 ^h 41 | 11 ^h 13 | 1 ^h 14 | 13 ^h 30 | 11 ^h 10 | 3 ^h K45 | 17 ^h 4 | 22 ^h 24 | 24 ^h 8 | 22 ^h 44 | 13 ^h 41 | 19 ^h 16 |
| T 3 | 18 45 3 | 11 ^h 21'58 | 15 ^h 28 | 19 ^h 43 | 11 ^h 18 | 1 ^h 49 | 13 ^h 39 | 11 ^h 15 | 3 ^h 44 | 17 ^h 6 | 22 ^h 25 | 24 ^h 0 | 22 ^h 40 | 13 ^h 47 | 19 ^h 20 |
| F 4 | 18 48 59 | 12 ^h 19'11 | 28 ^h 50 | 20 ^h 48 | 11 ^h R20 | 2 ^h 25 | 13 ^h 47 | 11 ^h 20 | 3 ^h 43 | 17 ^h 8 | 22 ^h 25 | 23 ^h 53 | 22 ^h 37 | 13 ^h 54 | 19 ^h 25 |
| S 5 | 18 52 56 | 13 ^h 16'25 | 11 ^h 48 | 21 ^h 58 | 11 ^h 19 | 3 ^h 1 | 13 ^h 56 | 11 ^h 25 | 3 ^h 42 | 17 ^h 10 | 22 ^h 25 | 23 ^h 47 | 22 ^h 34 | 14 ^h 0 | 19 ^h 30 |
| S 6 | 18 56 52 | 14 ^h 13'37 | 24 ^h 24 | 23 ^h 11 | 11 ^h 17 | 3 ^h 36 | 14 ^h 6 | 11 ^h 30 | 3 ^h 40 | 17 ^h 12 | 22 ^h 26 | 23 ^h 43 | 22 ^h 31 | 14 ^h 7 | 19 ^h 35 |
| M 7 | 19 0 49 | 15 ^h 10'50 | 6 ^h 41 | 24 ^h 29 | 11 ^h 12 | 4 ^h 12 | 14 ^h 15 | 11 ^h 35 | 3 ^h 39 | 17 ^h 14 | 22 ^h 26 | 23 ^h 41 | 22 ^h 28 | 14 ^h 14 | 19 ^h 39 |
| T 8 | 19 4 46 | 16 ^h 8'03 | 18 ^h 43 | 25 ^h 51 | 11 ^h 4 | 4 ^h 48 | 14 ^h 24 | 11 ^h 40 | 3 ^h 38 | 17 ^h 16 | 22 ^h 27 | 23 ^h D41 | 22 ^h 25 | 14 ^h 20 | 19 ^h 44 |
| W 9 | 19 8 42 | 17 ^h 5'15 | 0 ^h 35 | 27 ^h 16 | 10 ^h 54 | 5 ^h 24 | 14 ^h 33 | 11 ^h 44 | 3 ^h 36 | 17 ^h 17 | 22 ^h 27 | 23 ^h 42 | 22 ^h 21 | 14 ^h 27 | 19 ^h 49 |
| T 10 | 19 12 39 | 18 ^h 2'27 | 12 ^h 23 | 28 ^h 45 | 10 ^h 42 | 6 ^h 0 | 14 ^h 43 | 11 ^h 49 | 3 ^h 35 | 17 ^h 19 | 22 ^h 27 | 23 ^h 43 | 22 ^h 18 | 14 ^h 34 | 19 ^h 53 |
| F 11 | 19 16 35 | 18 ^h 59'39 | 24 ^h 13 | 0 ^h 18 | 10 ^h 27 | 6 ^h 36 | 14 ^h 53 | 11 ^h 53 | 3 ^h 33 | 17 ^h 21 | 22 ^h 27 | 23 ^h R43 | 22 ^h 15 | 14 ^h 40 | 19 ^h 58 |
| S 12 | 19 20 32 | 19 ^h 56'51 | 6 ^h 8 | 1 ^h 55 | 10 ^h 10 | 7 ^h 12 | 15 ^h 2 | 11 ^h 58 | 3 ^h 32 | 17 ^h 23 | 22 ^h 28 | 23 ^h 42 | 22 ^h 12 | 14 ^h 47 | 20 ^h 2 |
| S 13 | 19 24 28 | 20 ^h 54'03 | 18 ^h 12 | 3 ^h 35 | 9 ^h 51 | 7 ^h 48 | 15 ^h 12 | 12 ^h 2 | 3 ^h 30 | 17 ^h 26 | 22 ^h 28 | 23 ^h 39 | 22 ^h 9 | 14 ^h 54 | 20 ^h 7 |
| M 14 | 19 28 25 | 21 ^h 51'15 | 0 ^h 29 | 5 ^h 19 | 9 ^h 29 | 8 ^h 24 | 15 ^h 22 | 12 ^h 6 | 3 ^h 29 | 17 ^h 28 | 22 ^h 28 | 23 ^h 34 | 22 ^h 6 | 15 ^h 0 | 20 ^h 11 |
| T 15 | 19 32 21 | 22 ^h 48'28 | 13 ^h 1 | 7 ^h 6 | 9 ^h 6 | 9 ^h 1 | 15 ^h 32 | 12 ^h 10 | 3 ^h 27 | 17 ^h 30 | 22 ^h 28 | 23 ^h 27 | 22 ^h 2 | 15 ^h 7 | 20 ^h 16 |
| W 16 | 19 36 18 | 23 ^h 45'40 | 25 ^h 48 | 8 ^h 56 | 8 ^h 40 | 9 ^h 37 | 15 ^h 42 | 12 ^h 14 | 3 ^h 26 | 17 ^h 32 | 22 ^h 28 | 23 ^h 18 | 21 ^h 59 | 15 ^h 14 | 20 ^h 20 |
| T 17 | 19 40 15 | 24 ^h 42'53 | 8 ^h 51 | 10 ^h 49 | 8 ^h 12 | 10 ^h 13 | 15 ^h 52 | 12 ^h 18 | 3 ^h 24 | 17 ^h 34 | 22 ^h 28 | 23 ^h 7 | 21 ^h 56 | 15 ^h 20 | 20 ^h 25 |
| F 18 | 19 44 11 | 25 ^h 40'06 | 22 ^h 9 | 12 ^h 45 | 7 ^h 42 | 10 ^h 50 | 16 ^h 2 | 12 ^h 22 | 3 ^h 22 | 17 ^h 36 | 22 ^h 29 | 22 ^h 57 | 21 ^h 53 | 15 ^h 27 | 20 ^h 29 |
| S 19 | 19 48 8 | 26 ^h 37'20 | 5 ^h K38 | 14 ^h 43 | 7 ^h 11 | 11 ^h 26 | 16 ^h 13 | 12 ^h 26 | 3 ^h 21 | 17 ^h 38 | 22 ^h 29 | 22 ^h 48 | 21 ^h 50 | 15 ^h 33 | 20 ^h 33 |
| S 20 | 19 52 4 | 27 ^h 34'34 | 19 ^h 19 | 16 ^h 43 | 6 ^h 38 | 12 ^h 2 | 16 ^h 23 | 12 ^h 30 | 3 ^h 19 | 17 ^h 40 | 22 ^h 29 | 22 ^h 41 | 21 ^h 46 | 15 ^h 40 | 20 ^h 38 |
| M 21 | 19 56 1 | 28 ^h 31'49 | 3 ^h Y 8 | 18 ^h 46 | 6 ^h 4 | 12 ^h 39 | 16 ^h 33 | 12 ^h 33 | 3 ^h 17 | 17 ^h 42 | 22 ^h 29 | 22 ^h 36 | 21 ^h 43 | 15 ^h 47 | 20 ^h 42 |
| T 22 | 19 59 57 | 29 ^h 29'05 | 17 ^h 5 | 20 ^h 50 | 5 ^h 29 | 13 ^h 16 | 16 ^h 44 | 12 ^h 37 | 3 ^h 15 | 17 ^h 44 | 22 ^h 29 | 22 ^h 33 | 21 ^h 40 | 15 ^h 53 | 20 ^h 46 |
| W 23 | 20 3 54 | 0 ^h 26'21 | 1 ^h 8 | 22 ^h 55 | 4 ^h 53 | 13 ^h 52 | 16 ^h 55 | 12 ^h 40 | 3 ^h 13 | 17 ^h 46 | 22 ^h R29 | 22 ^h D33 | 21 ^h 37 | 16 ^h 0 | 20 ^h 50 |
| T 24 | 20 7 50 | 1 ^h 23'38 | 15 ^h 17 | 25 ^h 1 | 4 ^h 16 | 14 ^h 29 | 17 ^h 5 | 12 ^h 44 | 3 ^h 11 | 17 ^h 49 | 22 ^h 29 | 22 ^h R33 | 21 ^h 34 | 16 ^h 7 | 20 ^h 54 |
| F 25 | 20 11 47 | 2 ^h 20'57 | 29 ^h 31 | 27 ^h 8 | 3 ^h 39 | 15 ^h 6 | 17 ^h 16 | 12 ^h 47 | 3 ^h 9 | 17 ^h 51 | 22 ^h 29 | 22 ^h 33 | 21 ^h 31 | 16 ^h 13 | 20 ^h 59 |
| S 26 | 20 15 44 | 3 ^h 18'16 | 13 ^h II 4 | 29 ^h 15 | 3 ^h 1 | 15 ^h 42 | 17 ^h 27 | 12 ^h 50 | 3 ^h 7 | 17 ^h 53 | 22 ^h 29 | 22 ^h 32 | 21 ^h 27 | 16 ^h 20 | 21 ^h 3 |
| S 27 | 20 19 40 | 4 ^h 15'36 | 28 ^h 2 | 1 ^h 23 | 2 ^h 24 | 16 ^h 19 | 17 ^h 38 | 12 ^h 53 | 3 ^h 5 | 17 ^h 55 | 22 ^h 29 | 22 ^h 28 | 21 ^h 24 | 16 ^h 27 | 21 ^h 7 |
| M 28 | 20 23 37 | 5 ^h 12'57 | 12 ^h 15 | 3 ^h 30 | 1 ^h 47 | 16 ^h 56 | 17 ^h 49 | 12 ^h 56 | 3 ^h 3 | 17 ^h 57 | 22 ^h 28 | 22 ^h 21 | 21 ^h 21 | 16 ^h 33 | 21 ^h 11 |
| T 29 | 20 27 33 | 6 ^h 10'19 | 26 ^h 18 | 5 ^h 36 | 1 ^h 10 | 17 ^h 33 | 18 ^h 0 | 12 ^h 59 | 3 ^h 1 | 17 ^h 59 | 22 ^h 28 | 22 ^h 12 | 21 ^h 18 | 16 ^h 40 | 21 ^h 15 |
| W 30 | 20 31 30 | 7 ^h 7'41 | 10 ^h 9 | 7 ^h 42 | 0 ^h 35 | 18 ^h 10 | 18 ^h 11 | 13 ^h 2 | 2 ^h 59 | 18 ^h 2 | 22 ^h 28 | 22 ^h 1 | 21 ^h 15 | 16 ^h 47 | 21 ^h 19 |
| T 31 | 20 35 26 | 8 ^h 5'04 | 23 ^h 43 | 9 ^h 48 | 0 ^h 0 | 18 ^h 47 | 18 ^h 22 | 13 ^h 5 | 2 ^h K57 | 18 ^h 4 | 22 ^h Y28 | 21 ^h M49 | 21 ^h M11 | 16 ^h M53 | 21 ^h II23 |

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|------|----------|-----------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| F 1 | 20 39 23 | 9 ^h 2'28 | 6 ^h 57 | 11 ^h 52 | 29 ^h R26 | 19 ^h 24 | 18 ^h 34 | 13 ^h 8 | 2 ^h R55 | 18 ^h 6 | 22 ^h R28 | 21 ^h R38 | 21 ^h M 8 | 17 ^h M 0 | 21 ^h II26 |
| S 2 | 20 43 19 | 9 ^h 59'53 | 19 ^h 50 | 13 ^h 55 | 28 ^h 54 | 20 ^h 2 | 18 ^h 45 | 13 ^h 10 | 2 ^h K53 | 18 ^h 8 | 22 ^h Y28 | 21 ^h M28 | 21 ^h 5 | 17 ^h 7 | 21 ^h 30 |
| S 3 | 20 47 16 | 10 ^h 57'18 | 2 ^h 23 | 15 ^h 56 | 28 ^h 23 | 20 ^h 39 | 18 ^h 56 | 13 ^h 12 | 2 ^h 51 | 18 ^h 10 | 22 ^h 27 | 21 ^h 21 | 21 ^h 2 | 17 ^h 13 | 21 ^h 34 |
| M 4 | 20 51 13 | 11 ^h 54'44 | 14 ^h 38 | 17 ^h 57 | 27 ^h 54 | 21 ^h 16 | 19 ^h 8 | 13 ^h 14 | 2 ^h 49 | 18 ^h 13 | 22 ^h 27 | 21 ^h 16 | 20 ^h 59 | 17 ^h 20 | 21 ^h 38 |
| T 5 | 20 55 9 | 12 ^h 52'10 | 26 ^h 40 | 19 ^h 56 | 27 ^h 26 | 21 ^h 53 | 19 ^h 19 | 13 ^h 16 | 2 ^h 47 | 18 ^h 15 | 22 ^h 27 | 21 ^h 13 | 20 ^h 56 | 17 ^h 26 | 21 ^h 41 |
| W 6 | 20 59 6 | 13 ^h 49'37 | 8 ^h M32 | 21 ^h 53 | 27 ^h 1 | 22 ^h 31 | 19 ^h 31 | 13 ^h 19 | 2 ^h 44 | 18 ^h 17 | 22 ^h 27 | 21 ^h 12 | 20 ^h 52 | 17 ^h 33 | 21 ^h 45 |
| T 7 | 21 3 2 | 14 ^h 47'05 | 20 ^h 20 | 23 ^h 49 | 26 ^h 37 | 23 ^h 8 | 19 ^h 42 | 13 ^h 21 | 2 ^h 42 | 18 ^h 19 | 22 ^h 26 | 21 ^h 12 | 20 ^h 49 | 17 ^h 40 | 21 ^h 48 |
| F 8 | 21 6 59 | 15 ^h 44'34 | 2 ^h 711 | 25 ^h 44 | 26 ^h 16 | 23 ^h 46 | 19 ^h 54 | 13 ^h 22 | 2 ^h 40 | 18 ^h 21 | 22 ^h 26 | 21 ^h 12 | 20 ^h 46 | 17 ^h 46 | 21 ^h 52 |
| S 9 | 21 10 55 | 16 ^h 42'03 | 14 ^h 8 | 27 ^h 37 | 25 ^h 57 | 24 ^h 23 | 20 ^h 6 | 13 ^h 24 | 2 ^h 38 | 18 ^h 24 | 22 ^h 26 | 21 ^h 10 | 20 ^h 43 | 17 ^h 53 | 21 ^h 55 |
| S 10 | 21 14 52 | 17 ^h 39'33 | 26 ^h 17 | 29 ^h 28 | 25 ^h 41 | 25 ^h 1 | 20 ^h 18 | 13 ^h 26 | 2 ^h 35 | 18 ^h 26 | 22 ^h 25 | 21 ^h 7 | 20 ^h 40 | 18 ^h 0 | 21 ^h 59 |
| M 11 | 21 18 48 | 18 ^h 37'05 | 8 ^h 342 | 1 ^h 18 | 25 ^h 26 | 25 ^h 38 | 20 ^h 30 | 13 ^h 28 | 2 ^h 33 | 18 ^h 28 | 22 ^h 25 | 21 ^h 0 | 20 ^h 37 | 18 ^h 6 | 22 ^h 2 |
| T 12 | 21 22 45 | 19 ^h 34'37 | 21 ^h 25 | 3 ^h 6 | 25 ^h 15 | 26 ^h 16 | 20 ^h 42 | 13 ^h 29 | 2 ^h 31 | 18 ^h 30 | 22 ^h 24 | 20 ^h 52 | 20 ^h 33 | 18 ^h 13 | 22 ^h 6 |
| W 13 | 21 26 42 | 20 ^h 32'10 | 4 ^h 29 | 4 ^h 53 | 25 ^h 5 | 26 ^h 54 | 20 ^h 53 | 13 ^h 30 | 2 ^h 28 | 18 ^h 33 | 22 ^h 24 | 20 ^h 41 | 20 ^h 30 | 18 ^h 20 | 22 ^h 9 |
| T 14 | 21 30 38 | 21 ^h 29'44 | 17 ^h 52 | 6 ^h 38 | 24 ^h 58 | 27 ^h 31 | 21 ^h 5 | 13 ^h 32 | 2 ^h 26 | 18 ^h 35 | 22 ^h 23 | 20 ^h 29 | 20 ^h 27 | 18 ^h 26 | 22 ^h 12 |
| F 15 | 21 34 35 | 22 ^h 27'19 | 1 ^h K33 | 8 ^h 22 | 24 ^h 53 | 28 ^h 9 | 21 ^h 18 | 13 ^h 33 | 2 ^h 24 | 18 ^h 37 | 22 ^h 23 | 20 ^h 17 | 20 ^h 24 | 18 ^h 33 | 22 ^h 15 |
| S 16 | 21 38 31 | 23 ^h 24'55 | 15 ^h 28 | 10 ^h 4 | 24 ^h D51 | 28 ^h 47 | 21 ^h 30 | 13 ^h 34 | 2 ^h 21 | 18 ^h 39 | 22 ^h 22 | 20 ^h 6 | 20 ^h 21 | 18 ^h 40 | 22 ^h 18 |
| S 17 | 21 42 28 | 24 ^h 22'33 | 29 ^h 33 | 11 ^h 45 | 24 ^h 51 | 29< | | | | | | | | | |

SWISS EPHEMERIS for the year 2087

SEPTEMBER 2087

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|-----|----------|----------|-------|--------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|
| M 1 | 22 41 36 | 8♎50'11 | 22♋37 | 4♌ 1 | 29♄ 1 | 9♍ 0 | 24♎49 | 13°R37 | 1°R43 | 19♏14 | 22°R12 | 18°R25 | 19♐30 | 20♑26 | 23♒ 0 |
| T 2 | 22 45 33 | 9°48'14 | 4♌36 | 5°18 | 29°32 | 9°39 | 25° 1 | 13♋36 | 1°K41 | 19°16 | 22°Y11 | 18♎22 | 19°27 | 20°32 | 23° 2 |
| W 3 | 22 49 29 | 10°46'19 | 16°27 | 6°33 | 0♌ 4 | 10°18 | 25°14 | 13°35 | 1°39 | 19°18 | 22°10 | 18°D21 | 19°23 | 20°39 | 23° 4 |
| T 4 | 22 53 26 | 11°44'24 | 28°14 | 7°46 | 0°37 | 10°56 | 25°27 | 13°34 | 1°36 | 19°20 | 22°10 | 18°21 | 19°20 | 20°46 | 23° 6 |
| F 5 | 22 57 22 | 12°42'32 | 10♌ 4 | 8°58 | 1°12 | 11°35 | 25°40 | 13°33 | 1°34 | 19°23 | 22° 9 | 18°R22 | 19°17 | 20°52 | 23° 8 |
| S 6 | 23 1 19 | 13°40'40 | 22° 1 | 10° 7 | 1°48 | 12°14 | 25°52 | 13°32 | 1°31 | 19°25 | 22° 8 | 18°21 | 19°14 | 20°59 | 23°10 |
| S 7 | 23 5 15 | 14°38'51 | 4♌11 | 11°15 | 2°25 | 12°53 | 26° 5 | 13°31 | 1°29 | 19°27 | 22° 7 | 18°20 | 19°11 | 21° 6 | 23°12 |
| M 8 | 23 9 12 | 15°37'02 | 16°38 | 12°20 | 3° 4 | 13°32 | 26°18 | 13°29 | 1°27 | 19°29 | 22° 6 | 18°15 | 19° 8 | 21°12 | 23°13 |
| T 9 | 23 13 9 | 16°35'15 | 29°27 | 13°23 | 3°43 | 14°11 | 26°31 | 13°28 | 1°25 | 19°31 | 22° 5 | 18° 9 | 19° 4 | 21°19 | 23°15 |
| W10 | 23 17 5 | 17°33'30 | 12♋39 | 14°23 | 4°24 | 14°51 | 26°44 | 13°26 | 1°22 | 19°33 | 22° 4 | 18° 1 | 19° 1 | 21°26 | 23°16 |
| T11 | 23 21 2 | 18°31'46 | 26°16 | 15°21 | 5° 6 | 15°30 | 26°57 | 13°25 | 1°20 | 19°35 | 22° 3 | 17°51 | 18°58 | 21°32 | 23°18 |
| F12 | 23 24 58 | 19°30'04 | 10♌15 | 16°17 | 5°49 | 16° 9 | 27°10 | 13°23 | 1°18 | 19°37 | 22° 3 | 17°42 | 18°55 | 21°39 | 23°19 |
| S13 | 23 28 55 | 20°28'23 | 24°33 | 17° 9 | 6°32 | 16°48 | 27°22 | 13°21 | 1°16 | 19°39 | 22° 2 | 17°33 | 18°52 | 21°46 | 23°21 |
| S14 | 23 32 51 | 21°26'45 | 9♍ 3 | 17°58 | 7°17 | 17°28 | 27°35 | 13°19 | 1°13 | 19°41 | 22° 1 | 17°26 | 18°48 | 21°52 | 23°22 |
| M15 | 23 36 48 | 22°25'08 | 23°39 | 18°44 | 8° 3 | 18° 7 | 27°48 | 13°17 | 1°11 | 19°43 | 22° 0 | 17°22 | 18°45 | 21°59 | 23°23 |
| T16 | 23 40 44 | 23°23'34 | 8♌15 | 19°26 | 8°50 | 18°47 | 28° 1 | 13°15 | 1° 9 | 19°45 | 21°59 | 17°19 | 18°42 | 22° 5 | 23°24 |
| W17 | 23 44 41 | 24°22'01 | 22°45 | 20° 5 | 9°37 | 19°26 | 28°14 | 13°13 | 1° 7 | 19°46 | 21°58 | 17°D19 | 18°39 | 22°12 | 23°25 |
| T18 | 23 48 37 | 25°20'31 | 7♒ 5 | 20°39 | 10°25 | 20° 6 | 28°27 | 13°10 | 1° 5 | 19°48 | 21°57 | 17°20 | 18°36 | 22°19 | 23°26 |
| F19 | 23 52 34 | 26°19'03 | 21°14 | 21° 9 | 11°14 | 20°45 | 28°40 | 13° 8 | 1° 3 | 19°50 | 21°56 | 17°R21 | 18°33 | 22°25 | 23°27 |
| S20 | 23 56 31 | 27°17'37 | 5♄ 9 | 21°34 | 12° 4 | 21°25 | 28°53 | 13° 5 | 1° 1 | 19°52 | 21°55 | 17°21 | 18°29 | 22°32 | 23°28 |
| S21 | 0 0 27 | 28°16'14 | 18°52 | 21°54 | 12°55 | 22° 5 | 29° 6 | 13° 3 | 0°59 | 19°54 | 21°54 | 17°19 | 18°26 | 22°39 | 23°29 |
| M22 | 0 4 24 | 29°14'52 | 2♌22 | 22° 8 | 13°46 | 22°45 | 29°19 | 13° 0 | 0°57 | 19°56 | 21°53 | 17°15 | 18°23 | 22°45 | 23°29 |
| T23 | 0 8 20 | 0♌13'33 | 15°39 | 22°17 | 14°38 | 23°24 | 29°32 | 12°57 | 0°55 | 19°58 | 21°52 | 17° 9 | 18°20 | 22°52 | 23°30 |
| W24 | 0 12 17 | 1°12'16 | 28°43 | 22°R19 | 15°31 | 24° 4 | 29°45 | 12°54 | 0°53 | 19°59 | 21°50 | 17° 1 | 18°17 | 22°59 | 23°31 |
| T25 | 0 16 13 | 2°11'01 | 11♎34 | 22°14 | 16°24 | 24°44 | 29°58 | 12°51 | 0°51 | 20° 1 | 21°49 | 16°53 | 18°14 | 23° 5 | 23°31 |
| F26 | 0 20 10 | 3° 9'48 | 24°12 | 22° 3 | 17°18 | 25°24 | 0♌11 | 12°48 | 0°49 | 20° 3 | 21°48 | 16°45 | 18°10 | 23°12 | 23°31 |
| S27 | 0 24 6 | 4° 8'37 | 6♋37 | 21°44 | 18°13 | 26° 4 | 0°24 | 12°45 | 0°47 | 20° 5 | 21°47 | 16°38 | 18° 7 | 23°19 | 23°32 |
| S28 | 0 28 3 | 5° 7'28 | 18°50 | 21°18 | 19° 8 | 26°44 | 0°37 | 12°42 | 0°45 | 20° 6 | 21°46 | 16°33 | 18° 4 | 23°25 | 23°32 |
| M29 | 0 32 0 | 6° 6'21 | 0♌53 | 20°45 | 20° 4 | 27°25 | 0°50 | 12°39 | 0°43 | 20° 8 | 21°45 | 16°30 | 18° 1 | 23°32 | 23°32 |
| T30 | 0 35 56 | 7♌ 5'16 | 12♌47 | 20♌ 4 | 21♌ 0 | 28♌ 5 | 1♌ 3 | 12♋35 | 0°K41 | 20♌10 | 21°Y44 | 16°D28 | 17♌58 | 23♌39 | 23♒32 |

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| W 1 | 0 39 53 | 8♌ 4'12 | 24♌35 | 19°R17 | 21♌57 | 28♌45 | 1♌16 | 12°R32 | 0°R40 | 20♌11 | 21°R43 | 16♌29 | 17♌54 | 23♌45 | 23°R32 |
| T 2 | 0 43 49 | 9° 3'11 | 6♌22 | 18♌22 | 22°54 | 29°26 | 1°29 | 12♋28 | 0°K38 | 20°13 | 21°Y42 | 16°30 | 17°51 | 23°52 | 23♒32 |
| F 3 | 0 47 46 | 10° 2'11 | 18°10 | 17°23 | 23°52 | 0♌ 6 | 1°42 | 12°25 | 0°36 | 20°14 | 21°41 | 16°32 | 17°48 | 23°58 | 23°32 |
| S 4 | 0 51 42 | 11° 1'14 | 0♌ 6 | 16°18 | 24°50 | 0°46 | 1°55 | 12°21 | 0°35 | 20°16 | 21°39 | 16°33 | 17°45 | 24° 5 | 23°32 |
| S 5 | 0 55 39 | 12° 0'18 | 12°14 | 15°10 | 25°49 | 1°27 | 2° 7 | 12°17 | 0°33 | 20°18 | 21°38 | 16°R34 | 17°42 | 24°12 | 23°32 |
| M 6 | 0 59 35 | 12°59'23 | 24°39 | 14° 1 | 26°48 | 2° 7 | 2°20 | 12°13 | 0°31 | 20°19 | 21°37 | 16°33 | 17°39 | 24°18 | 23°31 |
| T 7 | 1 3 32 | 13°58'31 | 7♋25 | 12°52 | 27°48 | 2°48 | 2°33 | 12° 9 | 0°30 | 20°21 | 21°36 | 16°31 | 17°35 | 24°25 | 23°31 |
| W 8 | 1 7 29 | 14°57'40 | 20°37 | 11°44 | 28°48 | 3°29 | 2°46 | 12° 5 | 0°28 | 20°22 | 21°35 | 16°28 | 17°32 | 24°32 | 23°30 |
| T 9 | 1 11 25 | 15°56'51 | 4♌16 | 10°41 | 29°48 | 4° 9 | 2°59 | 12° 1 | 0°27 | 20°23 | 21°34 | 16°23 | 17°29 | 24°38 | 23°30 |
| F10 | 1 15 22 | 16°56'04 | 18°21 | 9°43 | 0♎49 | 4°50 | 3°12 | 11°57 | 0°25 | 20°25 | 21°33 | 16°19 | 17°26 | 24°45 | 23°29 |
| S11 | 1 19 18 | 17°55'18 | 2°Y50 | 8°53 | 1°50 | 5°31 | 3°24 | 11°53 | 0°24 | 20°26 | 21°31 | 16°14 | 17°23 | 24°52 | 23°28 |
| S12 | 1 23 15 | 18°54'35 | 17°37 | 8°11 | 2°52 | 6°12 | 3°37 | 11°49 | 0°23 | 20°28 | 21°30 | 16°11 | 17°20 | 24°58 | 23°27 |
| M13 | 1 27 11 | 19°53'54 | 2♋35 | 7°39 | 3°54 | 6°53 | 3°50 | 11°45 | 0°21 | 20°29 | 21°29 | 16° 9 | 17°16 | 25° 5 | 23°27 |
| T14 | 1 31 8 | 20°53'15 | 17°35 | 7°18 | 4°56 | 7°34 | 4° 3 | 11°40 | 0°20 | 20°30 | 21°28 | 16°D 9 | 17°13 | 25°12 | 23°26 |
| W15 | 1 35 4 | 21°52'38 | 2♒28 | 7°D 7 | 5°59 | 8°15 | 4°15 | 11°36 | 0°19 | 20°31 | 21°27 | 16°10 | 17°10 | 25°18 | 23°25 |
| T16 | 1 39 1 | 22°52'03 | 17° 9 | 7° 8 | 7° 2 | 8°56 | 4°28 | 11°32 | 0°18 | 20°33 | 21°26 | 16°11 | 17° 7 | 25°25 | 23°24 |
| F17 | 1 42 57 | 23°51'31 | 1♄32 | 7°19 | 8° 5 | 9°37 | 4°41 | 11°27 | 0°17 | 20°34 | 21°25 | 16°12 | 17° 4 | 25°31 | 23°22 |
| S18 | 1 46 54 | 24°51'01 | 15°35 | 7°41 | 9° 9 | 10°18 | 4°53 | 11°23 | 0°15 | 20°35 | 21°23 | 16°13 | 17° 0 | 25°38 | 23°21 |
| S19 | 1 50 51 | 25°50'33 | 29°17 | 8°13 | 10°13 | 10°59 | 5° 6 | 11°18 | 0°14 | 20°36 | 21°22 | 16°R13 | 16°57 | 25°45 | 23°20 |
| M20 | 1 54 47 | 26°50'07 | 12♌39 | 8°53 | 11°18 | 11°41 | 5°18 | 11°13 | 0°13 | 20°37 | 21°21 | 16°13 | 16°54 | 25°51 | 23°18 |
| T21 | 1 58 44 | 27°49'44 | 25°43 | 9°42 | 12°22 | 12°22 | 5°31 | 11° 9 | 0°12 | 20°39 | 21°20 | 16°11 | 16°51 | 25°58 | 23°17 |
| W22 | 2 2 40 | 28°49'23 | 8♎30 | 10°39 | 13°27 | 13° 4 | 5°43 | 11° 4 | 0°12 | 20°40 | 21°19 | 16° 9 | 16°48 | 26° 5 | 23°15 |
| T23 | 2 6 37 | 29°49'04 | 21° 3 | 11°43 | 14°32 | 13°45 | 5°56 | 10°59 | 0°11 | 20°41 | 21°18 | 16° 6 | 16°45 | 26°11 | 23°14 |
| F24 | 2 10 33 | 0♌48'48 | 3♌23 | 12°52 | 15°38 | 14°27 | 6° 8 | 10°55 | 0°10 | 20°42 | 21°17 | 16° 4 | 16°41 | 26°18 | 23°12 |
| S25 | 2 14 30 | 1°48'33 | 15°33 | 14° 7 | 16°44 | 15° 8 | 6°20 | 10°50 | 0° 9 | 20°43 | 21°15 | 16° 2 | 16°38 | 26°25 | 23°10 |
| S26 | 2 18 26 | 2°48'21 | 27°35 | 15°26 | 17°50 | 15°50 | 6°33 | 10°45 | 0° 8 | 20°44 | 21°14 | 16° 0 | 16°35 | 26°31 | 23° 9 |
| M27 | 2 22 23 | 3°48'10 | 9♌29 | 16°49 | 18°56 | 16°32 | 6°45 | 10°40 | 0° 8 | 20°44 | 21°13 | 16° 0 | 16°32 | 26°38 | 23° 7 |
| T28 | 2 26 20 | 4°48'02 | 21°18 | 18°15 | 20° 2 | 17°13 | 6°57 | 10°36 | 0° 7 | 20°45 | 21°12 | 16°D 0 | 16°29 | 26°45 | 23° 5 |
| W29 | 2 30 16 | 5°47'55 | 3♌ 5 | 19°43 | 21° 9 | 17°55 | 7° 9 | 10°31 | 0° 7 | 20°46 | 21°11 | 16° 0 | 16°25 | 26°51 | 23° 3 |
| T30 | 2 34 13 | 6°47'51 | 14°52 | 21°14 | 22°16 | 18°37 | 7°21 | 10°26 | 0° 6 | 20°47 | 21°10 | 16° 1 | 16°22 | 26°58 | 23° 1 |
| F31 | 2 38 9 | 7♌47'48 | 26♌42 | 22♌47 | 23♎23 | 19♌19 | 7♌34 | 10♋21 | 0°K 6 | 20♌48 | 21°Y 9 | 16♌ 2 | 16♌19 | 27♌ 5 | 22♒59 |

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SWISS EPHEMERIS for the year 2087

NOVEMBER 2087

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| S 1 | 2 42 6 | 8♁47'46 | 8♃39 | 24♁21 | 24♁31 | 20♁ 1 | 7♁46 | 10°R16 | 0°R 5 | 20♁49 | 21°R 8 | 16♁ 3 | 16♁16 | 27♁11 | 22°R57 |
| S 2 | 2 46 2 | 9°47'47 | 20°46 | 25°57 | 25°38 | 20°43 | 7°58 | 10♃12 | 0♁ 5 | 20°49 | 21°Y 7 | 16° 3 | 16°13 | 27°18 | 22♁54 |
| M 3 | 2 49 59 | 10°47'49 | 3♁ 8 | 27°33 | 26°46 | 21°25 | 8° 9 | 10° 7 | 0° 4 | 20°50 | 21° 5 | 16° 4 | 16°10 | 27°24 | 22°52 |
| T 4 | 2 53 55 | 11°47'52 | 15°50 | 29°10 | 27°54 | 22° 7 | 8°21 | 10° 2 | 0° 4 | 20°51 | 21° 4 | 16°R 4 | 16° 6 | 27°31 | 22°50 |
| W 5 | 2 57 52 | 12°47'57 | 28°54 | 0♁47 | 29° 2 | 22°49 | 8°33 | 9°57 | 0° 4 | 20°51 | 21° 3 | 16° 4 | 16° 3 | 27°38 | 22°47 |
| T 6 | 3 1 49 | 13°48'04 | 12♁25 | 2°25 | 0♁11 | 23°32 | 8°45 | 9°52 | 0° 4 | 20°52 | 21° 2 | 16° 3 | 16° 0 | 27°44 | 22°45 |
| F 7 | 3 5 45 | 14°48'12 | 26°23 | 4° 3 | 1°19 | 24°14 | 8°56 | 9°47 | 0° 4 | 20°52 | 21° 1 | 16° 3 | 15°57 | 27°51 | 22°42 |
| S 8 | 3 9 42 | 15°48'22 | 10°Y48 | 5°41 | 2°28 | 24°56 | 9° 8 | 9°43 | 0° 3 | 20°53 | 21° 0 | 16°D 3 | 15°54 | 27°58 | 22°40 |
| S 9 | 3 13 38 | 16°48'33 | 25°35 | 7°19 | 3°37 | 25°39 | 9°20 | 9°38 | 0°D 3 | 20°54 | 20°59 | 16° 3 | 15°51 | 28° 4 | 22°37 |
| M10 | 3 17 35 | 17°48'46 | 10♃40 | 8°57 | 4°46 | 26°21 | 9°31 | 9°33 | 0° 3 | 20°54 | 20°58 | 16°R 3 | 15°47 | 28°11 | 22°34 |
| T 11 | 3 21 31 | 18°49'01 | 25°53 | 10°34 | 5°55 | 27° 4 | 9°43 | 9°28 | 0° 4 | 20°54 | 20°57 | 16° 3 | 15°44 | 28°18 | 22°31 |
| W12 | 3 25 28 | 19°49'17 | 11♁ 5 | 12°12 | 7° 5 | 27°46 | 9°54 | 9°24 | 0° 4 | 20°55 | 20°56 | 16° 3 | 15°41 | 28°24 | 22°29 |
| T 13 | 3 29 24 | 20°49'36 | 26° 6 | 13°50 | 8°14 | 28°29 | 10° 5 | 9°19 | 0° 4 | 20°55 | 20°55 | 16° 3 | 15°38 | 28°31 | 22°26 |
| F 14 | 3 33 21 | 21°49'56 | 10♁48 | 15°27 | 9°24 | 29°12 | 10°16 | 9°14 | 0° 4 | 20°55 | 20°54 | 16° 2 | 15°35 | 28°38 | 22°23 |
| S 15 | 3 37 18 | 22°50'18 | 25° 6 | 17° 4 | 10°34 | 29°54 | 10°28 | 9° 9 | 0° 4 | 20°56 | 20°53 | 16° 1 | 15°31 | 28°44 | 22°20 |
| S 16 | 3 41 14 | 23°50'42 | 8♁58 | 18°41 | 11°44 | 0♁37 | 10°39 | 9° 5 | 0° 5 | 20°56 | 20°52 | 16° 1 | 15°28 | 28°51 | 22°17 |
| M17 | 3 45 11 | 24°51'08 | 22°24 | 20°17 | 12°54 | 1°20 | 10°50 | 9° 0 | 0° 5 | 20°56 | 20°51 | 16°D 0 | 15°25 | 28°58 | 22°14 |
| T 18 | 3 49 7 | 25°51'36 | 5♁25 | 21°54 | 14° 5 | 2° 3 | 11° 1 | 8°56 | 0° 6 | 20°56 | 20°50 | 16° 1 | 15°22 | 29° 4 | 22°11 |
| W19 | 3 53 4 | 26°52'06 | 18° 5 | 23°30 | 15°15 | 2°46 | 11°11 | 8°51 | 0° 6 | 20°57 | 20°50 | 16° 1 | 15°19 | 29°11 | 22° 8 |
| T 20 | 3 57 0 | 27°52'37 | 0♁28 | 25° 5 | 16°26 | 3°29 | 11°22 | 8°47 | 0° 7 | 20°57 | 20°49 | 16° 2 | 15°16 | 29°17 | 22° 5 |
| F 21 | 4 0 57 | 28°53'10 | 12°37 | 26°41 | 17°37 | 4°12 | 11°33 | 8°42 | 0° 7 | 20°57 | 20°48 | 16° 3 | 15°12 | 29°24 | 22° 1 |
| S 22 | 4 4 53 | 29°53'45 | 24°36 | 28°16 | 18°48 | 4°55 | 11°43 | 8°38 | 0° 8 | 20°57 | 20°47 | 16° 5 | 15° 9 | 29°31 | 21°58 |
| S 23 | 4 8 50 | 0♁54'22 | 6♁28 | 29°52 | 19°59 | 5°38 | 11°54 | 8°34 | 0° 8 | 20°R57 | 20°46 | 16° 5 | 15° 6 | 29°37 | 21°55 |
| M24 | 4 12 47 | 1°55'00 | 18°16 | 1♁27 | 21°10 | 6°21 | 12° 4 | 8°30 | 0° 9 | 20°57 | 20°45 | 16°R 6 | 15° 3 | 29°44 | 21°52 |
| T 25 | 4 16 43 | 2°55'40 | 0♁ 4 | 3° 1 | 22°21 | 7° 5 | 12°15 | 8°25 | 0°10 | 20°57 | 20°44 | 16° 5 | 15° 0 | 29°51 | 21°48 |
| W26 | 4 20 40 | 3°56'21 | 11°52 | 4°36 | 23°33 | 7°48 | 12°25 | 8°21 | 0°11 | 20°57 | 20°44 | 16° 4 | 14°57 | 29°57 | 21°45 |
| T 27 | 4 24 36 | 4°57'03 | 23°43 | 6°10 | 24°44 | 8°31 | 12°35 | 8°17 | 0°12 | 20°57 | 20°43 | 16° 1 | 14°53 | 0♁ 4 | 21°41 |
| F 28 | 4 28 33 | 5°57'47 | 5♁39 | 7°45 | 25°56 | 9°15 | 12°45 | 8°13 | 0°13 | 20°56 | 20°42 | 15°58 | 14°50 | 0°11 | 21°38 |
| S 29 | 4 32 29 | 6°58'32 | 17°42 | 9°19 | 27° 8 | 9°58 | 12°55 | 8° 9 | 0°14 | 20°56 | 20°41 | 15°54 | 14°47 | 0°17 | 21°35 |
| S 30 | 4 36 26 | 7♁59'18 | 29♁55 | 10♁53 | 28♁19 | 10♁42 | 13♁ 5 | 8♁ 5 | 0♁15 | 20♁56 | 20°Y41 | 15♁51 | 14♁44 | 0♁24 | 21♁31 |

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DECEMBER 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|-------|------|--------|
| M 1 | 4 40 22 | 9♁ 0'05 | 12♁20 | 12♁27 | 29♁31 | 11♁26 | 13♁15 | 8°R 2 | 0♁16 | 20°R56 | 20°R40 | 15°R48 | 14♁41 | 0♁31 | 21°R28 |
| T 2 | 4 44 19 | 10° 0'53 | 25° 0 | 14° 1 | 0♁43 | 12° 9 | 13°24 | 7♁58 | 0°17 | 20♁56 | 20°Y39 | 15♁46 | 14°37 | 0°37 | 21♁24 |
| W 3 | 4 48 16 | 11° 1'42 | 7♁59 | 15°35 | 1°55 | 12°53 | 13°34 | 7°54 | 0°18 | 20°55 | 20°38 | 15°D45 | 14°34 | 0°44 | 21°20 |
| T 4 | 4 52 12 | 12° 2'31 | 21°19 | 17° 8 | 3° 7 | 13°37 | 13°43 | 7°51 | 0°19 | 20°55 | 20°38 | 15°45 | 14°31 | 0°51 | 21°17 |
| F 5 | 4 56 9 | 13° 3'22 | 5°Y 3 | 18°42 | 4°20 | 14°21 | 13°53 | 7°47 | 0°21 | 20°54 | 20°37 | 15°46 | 14°28 | 0°57 | 21°13 |
| S 6 | 5 0 5 | 14° 4'13 | 19°12 | 20°16 | 5°32 | 15° 4 | 14° 2 | 7°44 | 0°22 | 20°54 | 20°37 | 15°48 | 14°25 | 1° 4 | 21°10 |
| S 7 | 5 4 2 | 15° 5'05 | 3♁46 | 21°49 | 6°44 | 15°48 | 14°11 | 7°40 | 0°23 | 20°54 | 20°36 | 15°49 | 14°22 | 1°11 | 21° 6 |
| M 8 | 5 7 58 | 16° 5'58 | 18°39 | 23°23 | 7°57 | 16°32 | 14°20 | 7°37 | 0°25 | 20°53 | 20°35 | 15°R50 | 14°18 | 1°17 | 21° 2 |
| T 9 | 5 11 55 | 17° 6'52 | 3♁47 | 24°57 | 9°10 | 17°16 | 14°29 | 7°34 | 0°26 | 20°53 | 20°35 | 15°49 | 14°15 | 1°24 | 20°59 |
| W10 | 5 15 51 | 18° 7'47 | 19° 0 | 26°30 | 10°22 | 18° 0 | 14°38 | 7°31 | 0°28 | 20°52 | 20°34 | 15°46 | 14°12 | 1°30 | 20°55 |
| T 11 | 5 19 48 | 19° 8'43 | 4♁ 9 | 28° 4 | 11°35 | 18°44 | 14°47 | 7°28 | 0°29 | 20°51 | 20°34 | 15°42 | 14° 9 | 1°37 | 20°52 |
| F 12 | 5 23 45 | 20° 9'40 | 19° 4 | 29°38 | 12°48 | 19°29 | 14°55 | 7°25 | 0°31 | 20°51 | 20°33 | 15°36 | 14° 6 | 1°44 | 20°48 |
| S 13 | 5 27 41 | 21°10'38 | 3♁36 | 1♁11 | 14° 1 | 20°13 | 15° 4 | 7°22 | 0°33 | 20°50 | 20°33 | 15°31 | 14° 3 | 1°50 | 20°44 |
| S 14 | 5 31 38 | 22°11'37 | 17°40 | 2°45 | 15°14 | 20°57 | 15°12 | 7°19 | 0°34 | 20°49 | 20°32 | 15°26 | 13°59 | 1°57 | 20°41 |
| M15 | 5 35 34 | 23°12'37 | 1♁16 | 4°19 | 16°27 | 21°41 | 15°20 | 7°17 | 0°36 | 20°49 | 20°32 | 15°22 | 13°56 | 2° 4 | 20°37 |
| T 16 | 5 39 31 | 24°13'37 | 14°23 | 5°52 | 17°40 | 22°26 | 15°28 | 7°14 | 0°38 | 20°48 | 20°31 | 15°20 | 13°53 | 2°10 | 20°33 |
| W17 | 5 43 27 | 25°14'39 | 27° 5 | 7°25 | 18°53 | 23°10 | 15°36 | 7°12 | 0°40 | 20°47 | 20°31 | 15°D19 | 13°50 | 2°17 | 20°30 |
| T 18 | 5 47 24 | 26°15'42 | 9♁25 | 8°59 | 20° 6 | 23°55 | 15°44 | 7° 9 | 0°42 | 20°46 | 20°31 | 15°20 | 13°47 | 2°24 | 20°26 |
| F 19 | 5 51 20 | 27°16'46 | 21°30 | 10°32 | 21°19 | 24°39 | 15°52 | 7° 7 | 0°44 | 20°46 | 20°30 | 15°22 | 13°43 | 2°30 | 20°22 |
| S 20 | 5 55 17 | 28°17'51 | 3♁24 | 12° 5 | 22°33 | 25°24 | 15°59 | 7° 5 | 0°46 | 20°45 | 20°30 | 15°23 | 13°40 | 2°37 | 20°19 |
| S 21 | 5 59 14 | 29°18'56 | 15°12 | 13°37 | 23°46 | 26° 8 | 16° 7 | 7° 3 | 0°48 | 20°44 | 20°30 | 15°R24 | 13°37 | 2°44 | 20°15 |
| M22 | 6 3 10 | 0♁20'02 | 26°58 | 15° 9 | 25° 0 | 26°53 | 16°14 | 7° 1 | 0°50 | 20°43 | 20°29 | 15°23 | 13°34 | 2°50 | 20°12 |
| T 23 | 6 7 7 | 1°21'09 | 8♁46 | 16°41 | 26°13 | 27°38 | 16°21 | 6°59 | 0°52 | 20°42 | 20°29 | 15°20 | 13°31 | 2°57 | 20° 8 |
| W24 | 6 11 3 | 2°22'17 | 20°38 | 18°12 | 27°27 | 28°22 | 16°28 | 6°58 | 0°54 | 20°41 | 20°29 | 15°15 | 13°28 | 3° 4 | 20° 5 |
| T 25 | 6 15 0 | 3°23'25 | 2♁37 | 19°42 | 28°40 | 29° 7 | 16°35 | 6°56 | 0°56 | 20°40 | 20°28 | 15° 8 | 13°24 | 3°10 | 20° 1 |
| F 26 | 6 18 56 | 4°24'34 | 14°43 | 21°11 | 29°54 | 29°52 | 16°42 | 6°54 | 0°58 | 20°39 | 20°28 | 14°58 | 13°21 | 3°17 | 19°57 |
| S 27 | 6 22 53 | 5°25'42 | 26°59 | 22°39 | 1♁ 8 | 0♁37 | 16°48 | 6°53 | 1° 1 | 20°38 | 20°28 | 14°48 | 13°18 | 3°24 | 19°54 |
| S 28 | 6 26 50 | 6°26'51 | 9♁25 | 24° 5 | 2°21 | 1°22 | 16°55 | 6°52 | 1° 3 | 20°37 | 20°28 | 14°38 | 13°15 | 3°30 | 19°50 |
| M29 | 6 30 46 | 7°28'00 | 22° 2 | 25°30 | 3°35 | 2° 7 | 17° 1 | 6°51 | 1° 5 | 20°36 | 20°28 | 14°29 | 13°12 | 3°37 | 19°47 |
| T 30 | 6 34 43 | 8°29'10 | 4♁51 | 26°53 | 4°49 | 2°52 | 17° 7 | 6°50 | 1° 8 | 20°35 | 20°28 | 14°22 | 13° 9 | 3°44 | 19°44 |
| W31 | 6 38 39 | 9♁30'19 | 17♁53 | 28♁13 | 6♁ 3 | 3♁37 | 17♁13 | 6♁49 | 1♁10 | 20♁33 | 20°Y28 | 14♁17 | 13♁ 5 | 3♁50 | 19♁40 |

Delta T = 196.34 sec.

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