

SWISS EPHEMERIS for the year 2147

JANUARY 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|--------|-------|-------|--------|-------|-------|-------|---------|--------|-------|------|-------|---|
| S 1 | 6 41 26 | 10♁11'23 | 21♁28 | 27♁37 | 26♁ 4 | 24♁ 5 | 9♁30 | 9°R 4 | 21♁57 | 27♁47 | 17°R47 | 10°R37 | 11♁56 | 4♁45 | 24♁54 | |
| M 2 | 6 45 23 | 11°12'33 | 6♁30 | 29° 2 | 27°14 | 24°33 | 9°34 | 9♁ 3 | 21°59 | 27°49 | 17°II46 | 10♁28 | 11°53 | 4°52 | 24°59 | |
| T 3 | 6 49 20 | 12°13'43 | 21°42 | 0♁26 | 28°23 | 25° 2 | 9°39 | 9° 2 | 22° 2 | 27°51 | 17°45 | 10°19 | 11°50 | 4°58 | 25° 3 | |
| W 4 | 6 53 16 | 13°14'54 | 6♁53 | 1°47 | 29°33 | 25°31 | 9°43 | 9° 1 | 22° 5 | 27°53 | 17°44 | 10°13 | 11°46 | 5° 5 | 25° 7 | |
| T 5 | 6 57 13 | 14°16'04 | 21°53 | 3° 5 | 0♁43 | 26° 0 | 9°46 | 9° 1 | 22° 7 | 27°55 | 17°43 | 10° 9 | 11°43 | 5°12 | 25°11 | |
| F 6 | 7 1 9 | 15°17'14 | 6♁34 | 4°19 | 1°53 | 26°29 | 9°50 | 9° 0 | 22°10 | 27°58 | 17°42 | 10°D 7 | 11°40 | 5°18 | 25°15 | |
| S 7 | 7 5 6 | 16°18'24 | 20°53 | 5°30 | 3° 3 | 26°58 | 9°53 | 9° 0 | 22°13 | 28° 0 | 17°41 | 10° 8 | 11°37 | 5°25 | 25°19 | |
| S 8 | 7 9 2 | 17°19'33 | 4♁47 | 6°35 | 4°13 | 27°28 | 9°57 | 8°59 | 22°15 | 28° 2 | 17°40 | 10° 9 | 11°34 | 5°32 | 25°23 | |
| M 9 | 7 12 59 | 18°20'42 | 18°17 | 7°36 | 5°24 | 27°58 | 10° 0 | 8°59 | 22°18 | 28° 4 | 17°39 | 10°R 9 | 11°31 | 5°39 | 25°27 | |
| T 10 | 7 16 55 | 19°21'51 | 1♁26 | 8°29 | 6°34 | 28°28 | 10° 3 | 8°59 | 22°20 | 28° 6 | 17°38 | 10° 8 | 11°27 | 5°45 | 25°30 | |
| W11 | 7 20 52 | 20°22'59 | 14°17 | 9°16 | 7°45 | 28°58 | 10° 5 | 8°D59 | 22°23 | 28° 8 | 17°37 | 10° 5 | 11°24 | 5°52 | 25°34 | |
| T 12 | 7 24 49 | 21°24'07 | 26°52 | 9°55 | 8°55 | 29°29 | 10° 8 | 8°59 | 22°25 | 28°11 | 17°36 | 10° 0 | 11°21 | 5°59 | 25°37 | |
| F 13 | 7 28 45 | 22°25'14 | 9♁15 | 10°24 | 10° 6 | 29°59 | 10°10 | 8°59 | 22°27 | 28°13 | 17°35 | 9°53 | 11°18 | 6° 5 | 25°40 | |
| S 14 | 7 32 42 | 23°26'21 | 21°28 | 10°44 | 11°17 | 0♁30 | 10°13 | 9° 0 | 22°30 | 28°15 | 17°34 | 9°45 | 11°15 | 6°12 | 25°43 | |
| S 15 | 7 36 38 | 24°27'28 | 3♁32 | 10°R53 | 12°28 | 1° 1 | 10°15 | 9° 0 | 22°32 | 28°17 | 17°33 | 9°35 | 11°12 | 6°19 | 25°46 | |
| M16 | 7 40 35 | 25°28'34 | 15°30 | 10°51 | 13°39 | 1°32 | 10°16 | 9° 1 | 22°34 | 28°19 | 17°32 | 9°26 | 11° 8 | 6°25 | 25°49 | |
| T 17 | 7 44 31 | 26°29'40 | 27°24 | 10°37 | 14°50 | 2° 3 | 10°18 | 9° 1 | 22°36 | 28°21 | 17°31 | 9°19 | 11° 5 | 6°32 | 25°52 | |
| W18 | 7 48 28 | 27°30'45 | 9♁13 | 10°12 | 16° 1 | 2°35 | 10°19 | 9° 2 | 22°38 | 28°23 | 17°30 | 9°13 | 11° 2 | 6°39 | 25°55 | |
| T 19 | 7 52 24 | 28°31'50 | 21° 2 | 9°34 | 17°13 | 3° 7 | 10°21 | 9° 3 | 22°40 | 28°25 | 17°30 | 9° 9 | 10°59 | 6°45 | 25°57 | |
| F 20 | 7 56 21 | 29°32'54 | 2♁51 | 8°46 | 18°24 | 3°38 | 10°22 | 9° 4 | 22°42 | 28°27 | 17°29 | 9° 7 | 10°56 | 6°52 | 26° 0 | |
| S 21 | 8 0 18 | 0♁33'58 | 14°44 | 7°49 | 19°36 | 4°10 | 10°23 | 9° 5 | 22°44 | 28°29 | 17°28 | 9°D 7 | 10°52 | 6°59 | 26° 2 | |
| S 22 | 8 4 14 | 1°35'02 | 26°43 | 6°43 | 20°47 | 4°42 | 10°23 | 9° 6 | 22°46 | 28°31 | 17°27 | 9° 8 | 10°49 | 7° 5 | 26° 4 | |
| M23 | 8 8 11 | 2°36'05 | 8♁54 | 5°31 | 21°59 | 5°14 | 10°24 | 9° 8 | 22°48 | 28°33 | 17°26 | 9°10 | 10°46 | 7°12 | 26° 6 | |
| T 24 | 8 12 7 | 3°37'08 | 21°20 | 4°15 | 23°11 | 5°47 | 10°24 | 9° 9 | 22°50 | 28°35 | 17°26 | 9°11 | 10°43 | 7°19 | 26° 8 | |
| W25 | 8 16 4 | 4°38'10 | 4♁ 5 | 2°58 | 24°23 | 6°19 | 10°R24 | 9°11 | 22°52 | 28°37 | 17°25 | 9°R12 | 10°40 | 7°25 | 26°10 | |
| T 26 | 8 20 0 | 5°39'13 | 17°15 | 1°41 | 25°35 | 6°52 | 10°24 | 9°12 | 22°53 | 28°39 | 17°24 | 9°11 | 10°37 | 7°32 | 26°12 | |
| F 27 | 8 23 57 | 6°40'14 | 0♁52 | 0°28 | 26°47 | 7°24 | 10°24 | 9°14 | 22°55 | 28°41 | 17°23 | 9° 9 | 10°33 | 7°39 | 26°14 | |
| S 28 | 8 27 53 | 7°41'16 | 14°58 | 29♁19 | 27°59 | 7°57 | 10°23 | 9°16 | 22°57 | 28°43 | 17°23 | 9° 6 | 10°30 | 7°45 | 26°15 | |
| S 29 | 8 31 50 | 8°42'16 | 29°31 | 28°17 | 29°11 | 8°30 | 10°23 | 9°18 | 22°58 | 28°44 | 17°22 | 9° 1 | 10°27 | 7°52 | 26°17 | |
| M30 | 8 35 47 | 9°43'17 | 14♁27 | 27°22 | 0♁23 | 9° 3 | 10°22 | 9°20 | 23° 0 | 28°46 | 17°21 | 8°57 | 10°24 | 7°59 | 26°18 | |
| T 31 | 8 39 43 | 10♁44'16 | 29♁38 | 26♁36 | 1♁35 | 9♁36 | 10♁21 | 9♁22 | 23♁ 1 | 28♁48 | 17♁21 | 8♁53 | 10♁21 | 8♁ 5 | 26♁19 | |

Delta T = 311.47 sec.

FEBRUARY 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|--------|-------|-------|--------|-------|--------|-------|---------|-------|-------|-------|--------|---|
| W 1 | 8 43 40 | 11♁45'15 | 14♁54 | 25°R58 | 2♁47 | 10♁10 | 10°R20 | 9♁25 | 23♁ 3 | 28♁50 | 17°R20 | 8°R50 | 10♁18 | 8♁12 | 26♁20 | |
| T 2 | 8 47 36 | 12°46'12 | 0♁ 5 | 25♁29 | 4° 0 | 10°43 | 10♁18 | 9°27 | 23° 4 | 28°52 | 17°II19 | 8♁48 | 10°14 | 8°19 | 26°21 | |
| F 3 | 8 51 33 | 13°47'09 | 15° 2 | 25° 9 | 5°12 | 11°17 | 10°16 | 9°29 | 23° 5 | 28°53 | 17°19 | 8°D48 | 10°11 | 8°25 | 26°22 | |
| S 4 | 8 55 29 | 14°48'04 | 29°37 | 24°58 | 6°25 | 11°50 | 10°15 | 9°32 | 23° 7 | 28°55 | 17°18 | 8°49 | 10° 8 | 8°32 | 26°22 | |
| S 5 | 8 59 26 | 15°48'58 | 13♁47 | 24°D54 | 7°37 | 12°24 | 10°13 | 9°35 | 23° 8 | 28°57 | 17°18 | 8°51 | 10° 5 | 8°39 | 26°23 | |
| M 6 | 9 3 22 | 16°49'50 | 27°29 | 24°58 | 8°50 | 12°58 | 10°10 | 9°38 | 23° 9 | 28°59 | 17°17 | 8°52 | 10° 2 | 8°45 | 26°23 | |
| T 7 | 9 7 19 | 17°50'42 | 10♁45 | 25° 9 | 10° 2 | 13°32 | 10° 8 | 9°41 | 23°10 | 29° 0 | 17°17 | 8°53 | 9°58 | 8°52 | 26°24 | |
| W 8 | 9 11 16 | 18°51'31 | 23°38 | 25°27 | 11°15 | 14° 6 | 10° 6 | 9°44 | 23°11 | 29° 2 | 17°16 | 8°R53 | 9°55 | 8°59 | 26°24 | |
| T 9 | 9 15 12 | 19°52'20 | 6♁11 | 25°51 | 12°27 | 14°40 | 10° 3 | 9°47 | 23°12 | 29° 3 | 17°16 | 8°52 | 9°52 | 9° 5 | 26°R24 | |
| F 10 | 9 19 9 | 20°53'07 | 18°28 | 26°20 | 13°40 | 15°14 | 10° 0 | 9°50 | 23°13 | 29° 5 | 17°15 | 8°51 | 9°49 | 9°12 | 26°24 | |
| S 11 | 9 23 5 | 21°53'52 | 0♁33 | 26°55 | 14°53 | 15°48 | 9°57 | 9°53 | 23°14 | 29° 7 | 17°15 | 8°48 | 9°46 | 9°19 | 26°24 | |
| S 12 | 9 27 2 | 22°54'36 | 12°30 | 27°34 | 16° 6 | 16°23 | 9°53 | 9°57 | 23°15 | 29° 8 | 17°15 | 8°46 | 9°43 | 9°25 | 26°23 | |
| M13 | 9 30 58 | 23°55'19 | 24°21 | 28°18 | 17°18 | 16°57 | 9°50 | 10° 0 | 23°15 | 29°10 | 17°14 | 8°43 | 9°39 | 9°32 | 26°23 | |
| T 14 | 9 34 55 | 24°56'00 | 6♁10 | 29° 5 | 18°31 | 17°32 | 9°46 | 10° 4 | 23°16 | 29°11 | 17°14 | 8°41 | 9°36 | 9°39 | 26°22 | |
| W15 | 9 38 51 | 25°56'40 | 17°59 | 29°56 | 19°44 | 18° 6 | 9°43 | 10° 8 | 23°17 | 29°13 | 17°13 | 8°39 | 9°33 | 9°45 | 26°22 | |
| T 16 | 9 42 48 | 26°57'18 | 29°50 | 0♁51 | 20°57 | 18°41 | 9°39 | 10°11 | 23°17 | 29°14 | 17°13 | 8°39 | 9°30 | 9°52 | 26°21 | |
| F 17 | 9 46 45 | 27°57'55 | 11♁45 | 1°48 | 22°10 | 19°16 | 9°34 | 10°15 | 23°18 | 29°15 | 17°13 | 8°D38 | 9°27 | 9°59 | 26°20 | |
| S 18 | 9 50 41 | 28°58'30 | 23°46 | 2°48 | 23°23 | 19°50 | 9°30 | 10°19 | 23°18 | 29°17 | 17°13 | 8°39 | 9°23 | 10° 5 | 26°19 | |
| S 19 | 9 54 38 | 29°59'04 | 5♁56 | 3°51 | 24°36 | 20°25 | 9°26 | 10°23 | 23°19 | 29°18 | 17°12 | 8°40 | 9°20 | 10°12 | 26°18 | |
| M20 | 9 58 34 | 0♁59'37 | 18°15 | 4°56 | 25°49 | 21° 0 | 9°21 | 10°28 | 23°19 | 29°19 | 17°12 | 8°40 | 9°17 | 10°19 | 26°17 | |
| T 21 | 10 2 31 | 2° 0'09 | 0♁49 | 6° 4 | 27° 2 | 21°35 | 9°16 | 10°32 | 23°20 | 29°21 | 17°12 | 8°41 | 9°14 | 10°25 | 26°16 | |
| W22 | 10 6 27 | 3° 0'39 | 13°38 | 7°13 | 28°15 | 22°10 | 9°11 | 10°36 | 23°20 | 29°22 | 17°12 | 8°42 | 9°11 | 10°32 | 26°14 | |
| T 23 | 10 10 24 | 4° 1'08 | 26°47 | 8°25 | 29°28 | 22°45 | 9° 6 | 10°41 | 23°20 | 29°23 | 17°12 | 8°42 | 9° 8 | 10°39 | 26°13 | |
| F 24 | 10 14 20 | 5° 1'36 | 10♁17 | 9°38 | 0♁41 | 23°20 | 9° 1 | 10°45 | 23°20 | 29°24 | 17°11 | 8°R42 | 9° 4 | 10°45 | 26°11 | |
| S 25 | 10 18 17 | 6° 2'02 | 24° 9 | 10°53 | 1°55 | 23°55 | 8°55 | 10°50 | 23°20 | 29°26 | 17°11 | 8°42 | 9° 1 | 10°52 | 26° 9 | |
| S 26 | 10 22 14 | 7° 2'28 | 8♁25 | 12°10 | 3° 8 | 24°31 | 8°50 | 10°55 | 23°20 | 29°27 | 17°11 | 8°42 | 8°58 | 10°59 | 26° 7 | |
| M27 | 10 26 10 | 8° 2'51 | 23° 1 | 13°28 | 4°21 | 25° 6 | 8°44 | 10°59 | 23°R20 | 29°28 | 17°11 | 8°42 | 8°55 | 11° 5 | 26° 5 | |
| T 28 | 10 30 7 | 9♁ 3'14 | 7♁54 | 14♁48 | 5♁34 | 25♁41 | 8♁38 | 11♁ 4 | 23♁20 | 29♁29 | 17♁11 | 8°D42 | 8♁52 | 11♁12 | 26♁ 3 | |

Delta T = 311.65 sec.

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SWISS EPHEMERIS for the year 2147

MARCH 2147

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|------|----------|----------|-------|-------|-------|--------|-------|-------|--------|--------|--------|-------|------|-------|--------|
| W 1 | 10 34 3 | 10X 3'35 | 22≈56 | 16≈ 9 | 6≈48 | 26B17 | 8°R32 | 11B 9 | 23°R20 | 29A730 | 17°R11 | 8M42 | 8M49 | 11O18 | 26°R 1 |
| T 2 | 10 38 0 | 11° 3'54 | 8X 0 | 17°32 | 8° 1 | 26°52 | 8≈26 | 11°14 | 23M20 | 29°31 | 17°D11 | 8°R42 | 8°45 | 11°25 | 25≈59 |
| F 3 | 10 41 56 | 12° 4'11 | 22°55 | 18°56 | 9°14 | 27°28 | 8°20 | 11°19 | 23°20 | 29°32 | 17II11 | 8°42 | 8°42 | 11°32 | 25°56 |
| S 4 | 10 45 53 | 13° 4'27 | 7Y36 | 20°21 | 10°28 | 28° 3 | 8°14 | 11°24 | 23°20 | 29°33 | 17°11 | 8°41 | 8°39 | 11°38 | 25°54 |
| S 5 | 10 49 49 | 14° 4'40 | 21°54 | 21°47 | 11°41 | 28°39 | 8° 7 | 11°30 | 23°19 | 29°34 | 17°11 | 8°41 | 8°36 | 11°45 | 25°51 |
| M 6 | 10 53 46 | 15° 4'52 | 5B46 | 23°15 | 12°54 | 29°15 | 8° 1 | 11°35 | 23°19 | 29°35 | 17°11 | 8°40 | 8°33 | 11°52 | 25°48 |
| T 7 | 10 57 42 | 16° 5'02 | 19°12 | 24°43 | 14° 8 | 29°50 | 7°54 | 11°40 | 23°19 | 29°36 | 17°11 | 8°39 | 8°29 | 11°58 | 25°46 |
| W 8 | 11 1 39 | 17° 5'10 | 2II13 | 26°13 | 15°21 | 0II26 | 7°47 | 11°46 | 23°18 | 29°36 | 17°11 | 8°39 | 8°26 | 12° 5 | 25°43 |
| T 9 | 11 5 36 | 18° 5'15 | 14°50 | 27°44 | 16°34 | 1° 2 | 7°40 | 11°51 | 23°18 | 29°37 | 17°12 | 8°D38 | 8°23 | 12°12 | 25°40 |
| F 10 | 11 9 32 | 19° 5'19 | 27° 9 | 29°17 | 17°48 | 1°38 | 7°33 | 11°57 | 23°17 | 29°38 | 17°12 | 8°38 | 8°20 | 12°18 | 25°37 |
| S 11 | 11 13 29 | 20° 5'20 | 9B13 | 0X50 | 19° 1 | 2°14 | 7°26 | 12° 3 | 23°16 | 29°39 | 17°12 | 8°39 | 8°17 | 12°25 | 25°33 |
| S 12 | 11 17 25 | 21° 5'19 | 21° 7 | 2°25 | 20°15 | 2°49 | 7°19 | 12° 9 | 23°16 | 29°39 | 17°12 | 8°40 | 8°14 | 12°32 | 25°30 |
| M13 | 11 21 22 | 22° 5'16 | 2O56 | 4° 0 | 21°28 | 3°25 | 7°12 | 12°14 | 23°15 | 29°40 | 17°12 | 8°41 | 8°10 | 12°38 | 25°27 |
| T 14 | 11 25 18 | 23° 5'11 | 14°44 | 5°37 | 22°42 | 4° 1 | 7° 5 | 12°20 | 23°14 | 29°41 | 17°13 | 8°43 | 8° 7 | 12°45 | 25°23 |
| W15 | 11 29 15 | 24° 5'04 | 26°34 | 7°15 | 23°55 | 4°37 | 6°57 | 12°26 | 23°13 | 29°41 | 17°13 | 8°44 | 8° 4 | 12°52 | 25°20 |
| T 16 | 11 33 11 | 25° 4'55 | 8M30 | 8°54 | 25° 9 | 5°13 | 6°50 | 12°32 | 23°12 | 29°42 | 17°13 | 8°R44 | 8° 1 | 12°58 | 25°16 |
| F 17 | 11 37 8 | 26° 4'44 | 20°33 | 10°35 | 26°22 | 5°49 | 6°42 | 12°38 | 23°11 | 29°42 | 17°14 | 8°44 | 7°58 | 13° 5 | 25°13 |
| S 18 | 11 41 5 | 27° 4'31 | 2≈47 | 12°16 | 27°36 | 6°26 | 6°35 | 12°44 | 23°10 | 29°43 | 17°14 | 8°42 | 7°55 | 13°12 | 25° 9 |
| S 19 | 11 45 1 | 28° 4'15 | 15°12 | 13°59 | 28°49 | 7° 2 | 6°27 | 12°51 | 23° 9 | 29°43 | 17°14 | 8°40 | 7°51 | 13°18 | 25° 5 |
| M20 | 11 48 58 | 29° 3'58 | 27°49 | 15°43 | 0X 3 | 7°38 | 6°20 | 12°57 | 23° 8 | 29°44 | 17°15 | 8°37 | 7°48 | 13°25 | 25° 1 |
| T 21 | 11 52 54 | 0Y 3'39 | 10M39 | 17°28 | 1°16 | 8°14 | 6°12 | 13° 3 | 23° 7 | 29°44 | 17°15 | 8°34 | 7°45 | 13°32 | 24°58 |
| W22 | 11 56 51 | 1° 3'19 | 23°43 | 19°14 | 2°30 | 8°50 | 6° 4 | 13°10 | 23° 6 | 29°44 | 17°15 | 8°30 | 7°42 | 13°38 | 24°54 |
| T 23 | 12 0 47 | 2° 2'56 | 7X 2 | 21° 2 | 3°43 | 9°26 | 5°57 | 13°16 | 23° 5 | 29°45 | 17°16 | 8°28 | 7°39 | 13°45 | 24°49 |
| F 24 | 12 4 44 | 3° 2'32 | 20°35 | 22°51 | 4°57 | 10° 3 | 5°49 | 13°22 | 23° 3 | 29°45 | 17°16 | 8°26 | 7°35 | 13°52 | 24°45 |
| S 25 | 12 8 40 | 4° 2'07 | 4B23 | 24°41 | 6°10 | 10°39 | 5°41 | 13°29 | 23° 2 | 29°45 | 17°17 | 8°D26 | 7°32 | 13°58 | 24°41 |
| S 26 | 12 12 37 | 5° 1'39 | 18°26 | 26°32 | 7°24 | 11°15 | 5°33 | 13°36 | 23° 1 | 29°46 | 17°17 | 8°26 | 7°29 | 14° 5 | 24°37 |
| M27 | 12 16 34 | 6° 1'10 | 2≈43 | 28°25 | 8°37 | 11°51 | 5°26 | 13°42 | 22°59 | 29°46 | 17°18 | 8°27 | 7°26 | 14°12 | 24°33 |
| T 28 | 12 20 30 | 7° 0'39 | 17°12 | 0Y19 | 9°51 | 12°28 | 5°18 | 13°49 | 22°58 | 29°46 | 17°18 | 8°29 | 7°23 | 14°18 | 24°28 |
| W29 | 12 24 27 | 8° 0'06 | 1X49 | 2°14 | 11° 5 | 13° 4 | 5°10 | 13°56 | 22°56 | 29°46 | 17°19 | 8°R30 | 7°20 | 14°25 | 24°24 |
| T 30 | 12 28 23 | 8°59'32 | 16°30 | 4°10 | 12°18 | 13°41 | 5° 2 | 14° 2 | 22°55 | 29°46 | 17°20 | 8°30 | 7°16 | 14°32 | 24°20 |
| F 31 | 12 32 20 | 9Y58'55 | 1Y 8 | 6Y 8 | 13X32 | 14II17 | 4≈55 | 14B 9 | 22M53 | 29A746 | 17II20 | 8M28 | 7M13 | 14O38 | 24≈15 |

Delta T = 311.80 sec.

APRIL 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|--------|-------|-------|--------|-------|-------|--------|--------|--------|-------|------|-------|--------|
| S 1 | 12 36 16 | 10Y58'16 | 15Y36 | 8Y 7 | 14X45 | 14II53 | 4°R47 | 14B16 | 22°R52 | 29°R46 | 17II21 | 8°R25 | 7M10 | 14O45 | 24°R11 |
| S 2 | 12 40 13 | 11°57'36 | 29°48 | 10° 7 | 15°59 | 15°30 | 4≈39 | 14°23 | 22M50 | 29A746 | 17°21 | 8M20 | 7° 7 | 14°52 | 24≈ 6 |
| M 3 | 12 44 9 | 12°56'53 | 13B40 | 12° 8 | 17°13 | 16° 6 | 4°32 | 14°30 | 22°48 | 29°46 | 17°22 | 8°15 | 7° 4 | 14°58 | 24° 2 |
| T 4 | 12 48 6 | 13°56'08 | 27° 9 | 14°10 | 18°26 | 16°43 | 4°24 | 14°37 | 22°46 | 29°46 | 17°23 | 8° 9 | 7° 0 | 15° 5 | 23°57 |
| W 5 | 12 52 2 | 14°55'21 | 10II13 | 16°13 | 19°40 | 17°19 | 4°16 | 14°44 | 22°45 | 29°46 | 17°24 | 8° 4 | 6°57 | 15°11 | 23°52 |
| T 6 | 12 55 59 | 15°54'32 | 22°55 | 18°16 | 20°54 | 17°56 | 4° 9 | 14°51 | 22°43 | 29°46 | 17°24 | 8° 0 | 6°54 | 15°18 | 23°48 |
| F 7 | 12 59 56 | 16°53'40 | 5B17 | 20°20 | 22° 7 | 18°32 | 4° 2 | 14°58 | 22°41 | 29°46 | 17°25 | 7°58 | 6°51 | 15°25 | 23°43 |
| S 8 | 13 3 52 | 17°52'46 | 17°22 | 22°25 | 23°21 | 19° 9 | 3°54 | 15° 5 | 22°39 | 29°46 | 17°26 | 7°D57 | 6°48 | 15°31 | 23°38 |
| S 9 | 13 7 49 | 18°51'50 | 29°17 | 24°29 | 24°34 | 19°46 | 3°47 | 15°13 | 22°37 | 29°45 | 17°27 | 7°57 | 6°45 | 15°38 | 23°34 |
| M10 | 13 11 45 | 19°50'51 | 11O 6 | 26°34 | 25°48 | 20°22 | 3°40 | 15°20 | 22°35 | 29°45 | 17°27 | 7°59 | 6°41 | 15°45 | 23°29 |
| T 11 | 13 15 42 | 20°49'51 | 22°55 | 28°38 | 27° 2 | 20°59 | 3°32 | 15°27 | 22°33 | 29°45 | 17°28 | 8° 0 | 6°38 | 15°51 | 23°24 |
| W12 | 13 19 38 | 21°48'47 | 4M47 | 0B41 | 28°15 | 21°35 | 3°25 | 15°34 | 22°31 | 29°44 | 17°29 | 8°R 1 | 6°35 | 15°58 | 23°19 |
| T 13 | 13 23 35 | 22°47'42 | 16°48 | 2°43 | 29°29 | 22°12 | 3°18 | 15°42 | 22°29 | 29°44 | 17°30 | 8° 1 | 6°32 | 16° 5 | 23°15 |
| F 14 | 13 27 31 | 23°46'35 | 29° 1 | 4°44 | 0Y42 | 22°49 | 3°11 | 15°49 | 22°27 | 29°44 | 17°31 | 7°59 | 6°29 | 16°11 | 23°10 |
| S 15 | 13 31 28 | 24°45'25 | 11≈28 | 6°43 | 1°56 | 23°25 | 3° 5 | 15°56 | 22°25 | 29°43 | 17°32 | 7°54 | 6°26 | 16°18 | 23° 5 |
| S 16 | 13 35 25 | 25°44'13 | 24°10 | 8°41 | 3°10 | 24° 2 | 2°58 | 16° 4 | 22°23 | 29°43 | 17°33 | 7°48 | 6°22 | 16°25 | 23° 1 |
| M17 | 13 39 21 | 26°43'00 | 7M 8 | 10°35 | 4°23 | 24°39 | 2°51 | 16°11 | 22°21 | 29°42 | 17°33 | 7°40 | 6°19 | 16°31 | 22°56 |
| T 18 | 13 43 18 | 27°41'44 | 20°22 | 12°27 | 5°37 | 25°15 | 2°45 | 16°19 | 22°18 | 29°42 | 17°34 | 7°31 | 6°16 | 16°38 | 22°51 |
| W19 | 13 47 14 | 28°40'27 | 3X49 | 14°16 | 6°50 | 25°52 | 2°38 | 16°26 | 22°16 | 29°41 | 17°35 | 7°23 | 6°13 | 16°45 | 22°46 |
| T 20 | 13 51 11 | 29°39'08 | 17°28 | 16° 2 | 8° 4 | 26°29 | 2°32 | 16°34 | 22°14 | 29°41 | 17°36 | 7°16 | 6°10 | 16°51 | 22°42 |
| F 21 | 13 55 7 | 0B37'47 | 1B16 | 17°43 | 9°18 | 27° 6 | 2°26 | 16°41 | 22°12 | 29°40 | 17°37 | 7°10 | 6° 6 | 16°58 | 22°37 |
| S 22 | 13 59 4 | 1°36'24 | 15°12 | 19°21 | 10°31 | 27°42 | 2°20 | 16°49 | 22° 9 | 29°39 | 17°38 | 7° 7 | 6° 3 | 17° 5 | 22°32 |
| S 23 | 14 3 0 | 2°35'00 | 29°14 | 20°55 | 11°45 | 28°19 | 2°14 | 16°56 | 22° 7 | 29°39 | 17°39 | 7°D 5 | 6° 0 | 17°11 | 22°28 |
| M24 | 14 6 57 | 3°33'34 | 13≈22 | 22°25 | 12°58 | 28°56 | 2° 8 | 17° 4 | 22° 5 | 29°38 | 17°40 | 7° 6 | 5°57 | 17°18 | 22°23 |
| T 25 | 14 10 54 | 4°32'07 | 27°33 | 23°50 | 14°12 | 29°33 | 2° 3 | 17°11 | 22° 2 | 29°37 | 17°41 | 7° 6 | 5°54 | 17°25 | 22°19 |
| W26 | 14 14 50 | 5°30'38 | 11X47 | 25°10 | 15°26 | 0B 9 | 1°57 | 17°19 | 22° 0 | 29°37 | 17°42 | 7°R 7 | 5°51 | 17°31 | 22°14 |
| T 27 | 14 18 47 | 6°29'07 | 26° 2 | 26°26 | 16°39 | 0°46 | 1°52 | 17°27 | 21°58 | 29°36 | 17°44 | 7° 5 | 5°47 | 17°38 | 22°10 |
| F 28 | 14 22 43 | 7°27'35 | 10Y13 | 27°37 | 17°53 | 1°23 | 1°47 | 17°34 | 21°55 | 29°35 | 17°45 | 7° 1 | 5°44 | 17°45 | 22° 5 |
| S 29 | 14 26 40 | 8°26'01 | 24°18 | 28°43 | 19° 6 | 2° 0 | 1°41 | 17°42 | 21°53 | 29°34 | 17°46 | 6°55 | 5°41 | 17°51 | 22° 1 |
| S 30 | 14 30 36 | 9B24'25 | 8B11 | 29B44 | 20Y20 | 2B37 | 1≈37 | 17B50 | 21M50 | 29A733 | 17II47 | 6M46 | 5M38 | 17O58 | 21≈56 |

Delta T = 311.97 sec.

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SWISS EPHEMERIS for the year 2147

MAY 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|------|-------|--------|---|---|---|---|---|---|---|---|
| M 1 | 14 34 33 | 10♌22'47 | 21♋50 | 0♐40 | 21♋34 | 3♊13 | 1°R32 | 17♋57 | 21°R48 | 29°R32 | 17♐48 | 6°R36 | 5♎35 | 18♌4 | 21°R52 | | | | | | | | |
| T 2 | 14 38 29 | 11°21'08 | 5♐9 | 1°30 | 22°47 | 3°50 | 1♌27 | 18°5 | 21♎45 | 29°♌31 | 17°49 | 6♎25 | 5°31 | 18°11 | 21♌48 | | | | | | | | |
| W 3 | 14 42 26 | 12°19'27 | 18°9 | 2°16 | 24°1 | 4°27 | 1°23 | 18°13 | 21°43 | 29°30 | 17°50 | 6°14 | 5°28 | 18°18 | 21°44 | | | | | | | | |
| T 4 | 14 46 23 | 13°17'43 | 0♌48 | 2°56 | 25°14 | 5°4 | 1°18 | 18°20 | 21°41 | 29°30 | 17°51 | 6°6 | 5°25 | 18°24 | 21°39 | | | | | | | | |
| F 5 | 14 50 19 | 14°15'58 | 13°10 | 3°31 | 26°28 | 5°41 | 1°14 | 18°28 | 21°38 | 29°29 | 17°53 | 5°59 | 5°22 | 18°31 | 21°35 | | | | | | | | |
| S 6 | 14 54 16 | 15°14'11 | 25°16 | 4°0 | 27°41 | 6°18 | 1°10 | 18°36 | 21°36 | 29°27 | 17°54 | 5°55 | 5°19 | 18°38 | 21°31 | | | | | | | | |
| S 7 | 14 58 12 | 16°12'22 | 7♎11 | 4°24 | 28°55 | 6°55 | 1°6 | 18°44 | 21°33 | 29°26 | 17°55 | 5°53 | 5°16 | 18°44 | 21°27 | | | | | | | | |
| M 8 | 15 2 9 | 17°10'31 | 19°0 | 4°43 | 0♋9 | 7°32 | 1°3 | 18°51 | 21°31 | 29°25 | 17°56 | 5°D53 | 5°12 | 18°51 | 21°23 | | | | | | | | |
| T 9 | 15 6 5 | 18°8'37 | 0♎49 | 4°56 | 1°22 | 8°8 | 0°59 | 18°59 | 21°28 | 29°24 | 17°57 | 5°R53 | 5°9 | 18°58 | 21°20 | | | | | | | | |
| W10 | 15 10 2 | 19°6'42 | 12°43 | 5°4 | 2°36 | 8°45 | 0°56 | 19°7 | 21°25 | 29°23 | 17°59 | 5°53 | 5°6 | 19°4 | 21°16 | | | | | | | | |
| T 11 | 15 13 58 | 20°4'45 | 24°47 | 5°R7 | 3°49 | 9°22 | 0°53 | 19°15 | 21°23 | 29°22 | 18°0 | 5°51 | 5°3 | 19°11 | 21°12 | | | | | | | | |
| F 12 | 15 17 55 | 21°2'46 | 7♌6 | 5°4 | 5°3 | 9°59 | 0°50 | 19°22 | 21°20 | 29°21 | 18°1 | 5°48 | 5°0 | 19°18 | 21°8 | | | | | | | | |
| S 13 | 15 21 52 | 22°0'46 | 19°43 | 4°57 | 6°16 | 10°36 | 0°47 | 19°30 | 21°18 | 29°20 | 18°2 | 5°41 | 4°57 | 19°24 | 21°5 | | | | | | | | |
| S 14 | 15 25 48 | 22°58'43 | 2♎40 | 4°45 | 7°30 | 11°13 | 0°45 | 19°38 | 21°15 | 29°18 | 18°4 | 5°33 | 4°53 | 19°31 | 21°1 | | | | | | | | |
| M15 | 15 29 45 | 23°56'39 | 15°57 | 4°29 | 8°43 | 11°50 | 0°42 | 19°45 | 21°13 | 29°17 | 18°5 | 5°22 | 4°50 | 19°38 | 20°58 | | | | | | | | |
| T 16 | 15 33 41 | 24°54'34 | 29°34 | 4°9 | 9°57 | 12°27 | 0°40 | 19°53 | 21°10 | 29°16 | 18°6 | 5°10 | 4°47 | 19°44 | 20°54 | | | | | | | | |
| W17 | 15 37 38 | 25°52'27 | 13♌27 | 3°45 | 11°10 | 13°4 | 0°38 | 20°1 | 21°8 | 29°15 | 18°8 | 4°58 | 4°44 | 19°51 | 20°51 | | | | | | | | |
| T 18 | 15 41 34 | 26°50'18 | 27°32 | 3°18 | 12°24 | 13°41 | 0°36 | 20°9 | 21°5 | 29°13 | 18°9 | 4°48 | 4°41 | 19°58 | 20°48 | | | | | | | | |
| F 19 | 15 45 31 | 27°48'09 | 11♋43 | 2°48 | 13°38 | 14°18 | 0°34 | 20°16 | 21°3 | 29°12 | 18°10 | 4°40 | 4°37 | 20°4 | 20°45 | | | | | | | | |
| S 20 | 15 49 27 | 28°45'58 | 25°58 | 2°16 | 14°51 | 14°55 | 0°33 | 20°24 | 21°0 | 29°11 | 18°11 | 4°34 | 4°34 | 20°11 | 20°42 | | | | | | | | |
| S 21 | 15 53 24 | 29°43'45 | 10♌12 | 1°43 | 16°5 | 15°32 | 0°31 | 20°32 | 20°58 | 29°9 | 18°13 | 4°32 | 4°31 | 20°17 | 20°39 | | | | | | | | |
| M22 | 15 57 21 | 0♐41'32 | 24°22 | 1°8 | 17°18 | 16°9 | 0°30 | 20°39 | 20°55 | 29°8 | 18°14 | 4°31 | 4°28 | 20°24 | 20°36 | | | | | | | | |
| T 23 | 16 1 17 | 1°39'18 | 8♋28 | 0°34 | 18°32 | 16°46 | 0°29 | 20°47 | 20°53 | 29°7 | 18°15 | 4°31 | 4°25 | 20°31 | 20°33 | | | | | | | | |
| W24 | 16 5 14 | 2°37'02 | 22°29 | 29♋59 | 19°45 | 17°23 | 0°28 | 20°55 | 20°50 | 29°5 | 18°17 | 4°30 | 4°22 | 20°37 | 20°31 | | | | | | | | |
| T 25 | 16 9 10 | 3°34'46 | 6♋23 | 29°25 | 20°59 | 18°0 | 0°28 | 21°2 | 20°48 | 29°4 | 18°18 | 4°28 | 4°18 | 20°44 | 20°28 | | | | | | | | |
| F 26 | 16 13 7 | 4°32'28 | 20°11 | 28°53 | 22°12 | 18°37 | 0°27 | 21°10 | 20°45 | 29°2 | 18°19 | 4°23 | 4°15 | 20°51 | 20°26 | | | | | | | | |
| S 27 | 16 17 3 | 5°30'09 | 3♋50 | 28°23 | 23°26 | 19°14 | 0°27 | 21°17 | 20°43 | 29°1 | 18°21 | 4°15 | 4°12 | 20°57 | 20°23 | | | | | | | | |
| S 28 | 16 21 0 | 6°27'50 | 17°19 | 27°55 | 24°40 | 19°51 | 0°D27 | 21°25 | 20°41 | 29°0 | 18°22 | 4°5 | 4°9 | 21°4 | 20°21 | | | | | | | | |
| M29 | 16 24 56 | 7°25'29 | 0♐36 | 27°30 | 25°53 | 20°28 | 0°27 | 21°32 | 20°38 | 28°58 | 18°24 | 3°53 | 4°6 | 21°11 | 20°19 | | | | | | | | |
| T 30 | 16 28 53 | 8°23'07 | 13°38 | 27°8 | 27°7 | 21°5 | 0°27 | 21°40 | 20°36 | 28°57 | 18°25 | 3°40 | 4°3 | 21°17 | 20°17 | | | | | | | | |
| W31 | 16 32 50 | 9♐20'44 | 26♐24 | 26♋50 | 28♋20 | 21♌42 | 0♌28 | 21♋47 | 20♎34 | 28♌55 | 18♐26 | 3♎28 | 3♎59 | 21♌24 | 20♌15 | | | | | | | | |

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JUNE 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|--------|-------|-------|------|-------|--------|--------|-------|-------|------|-------|--------|---|---|---|---|---|---|---|---|
| T 1 | 16 36 46 | 10♐18'19 | 8♌55 | 26°R35 | 29♋34 | 22♌19 | 0♌29 | 21♋55 | 20°R31 | 28°R54 | 18♐28 | 3°R17 | 3♎56 | 21♌31 | 20°R13 | | | | | | | | |
| F 2 | 16 40 43 | 11°15'54 | 21°10 | 26♋25 | 0♐47 | 22°56 | 0°29 | 22°2 | 20♎29 | 28♌52 | 18°29 | 3♎9 | 3°53 | 21°37 | 20♌11 | | | | | | | | |
| S 3 | 16 44 39 | 12°13'27 | 3♎13 | 26°19 | 2°1 | 23°33 | 0°30 | 22°10 | 20°27 | 28°51 | 18°30 | 3°3 | 3°50 | 21°44 | 20°9 | | | | | | | | |
| S 4 | 16 48 36 | 13°10'58 | 15°6 | 26°D17 | 3°14 | 24°10 | 0°32 | 22°17 | 20°24 | 28°49 | 18°32 | 3°0 | 3°47 | 21°51 | 20°8 | | | | | | | | |
| M 5 | 16 52 32 | 14°8'29 | 26°55 | 26°20 | 4°28 | 24°47 | 0°33 | 22°25 | 20°22 | 28°48 | 18°33 | 2°59 | 3°43 | 21°57 | 20°6 | | | | | | | | |
| T 6 | 16 56 29 | 15°5'58 | 8♎43 | 26°27 | 5°42 | 25°24 | 0°34 | 22°32 | 20°20 | 28°46 | 18°35 | 2°59 | 3°40 | 22°4 | 20°5 | | | | | | | | |
| W 7 | 17 0 25 | 16°3'26 | 20°37 | 26°39 | 6°55 | 26°1 | 0°36 | 22°39 | 20°18 | 28°44 | 18°36 | 2°59 | 3°37 | 22°11 | 20°4 | | | | | | | | |
| T 8 | 17 4 22 | 17°0'52 | 2♌42 | 26°55 | 8°9 | 26°38 | 0°38 | 22°47 | 20°16 | 28°43 | 18°37 | 2°58 | 3°34 | 22°17 | 20°3 | | | | | | | | |
| F 9 | 17 8 19 | 17°58'18 | 15°2 | 27°16 | 9°22 | 27°16 | 0°40 | 22°54 | 20°13 | 28°41 | 18°39 | 2°55 | 3°31 | 22°24 | 20°2 | | | | | | | | |
| S 10 | 17 12 15 | 18°55'42 | 27°43 | 27°41 | 10°36 | 27°53 | 0°42 | 23°1 | 20°11 | 28°40 | 18°40 | 2°50 | 3°28 | 22°30 | 20°1 | | | | | | | | |
| S 11 | 17 16 12 | 19°53'05 | 10♎48 | 28°10 | 11°49 | 28°30 | 0°45 | 23°8 | 20°9 | 28°38 | 18°41 | 2°42 | 3°24 | 22°37 | 20°0 | | | | | | | | |
| M12 | 17 20 8 | 20°50'28 | 24°17 | 28°44 | 13°3 | 29°7 | 0°47 | 23°16 | 20°7 | 28°36 | 18°43 | 2°33 | 3°21 | 22°44 | 19°59 | | | | | | | | |
| T 13 | 17 24 5 | 21°47'49 | 8♌11 | 29°21 | 14°17 | 29°44 | 0°50 | 23°23 | 20°5 | 28°35 | 18°44 | 2°22 | 3°18 | 22°50 | 19°59 | | | | | | | | |
| W14 | 17 28 1 | 22°45'10 | 22°25 | 0♐3 | 15°30 | 0♌21 | 0°53 | 23°30 | 20°3 | 28°33 | 18°46 | 2°11 | 3°15 | 22°57 | 19°58 | | | | | | | | |
| T 15 | 17 31 58 | 23°42'29 | 6♋53 | 0°49 | 16°44 | 0°58 | 0°56 | 23°37 | 20°1 | 28°32 | 18°47 | 2°2 | 3°12 | 23°4 | 19°58 | | | | | | | | |
| F 16 | 17 35 54 | 24°39'49 | 21°31 | 1°38 | 17°57 | 1°35 | 0°59 | 23°44 | 19°59 | 28°30 | 18°48 | 1°55 | 3°9 | 23°10 | 19°57 | | | | | | | | |
| S 17 | 17 39 51 | 25°37'07 | 6♌9 | 2°32 | 19°11 | 2°13 | 1°3 | 23°51 | 19°57 | 28°28 | 18°50 | 1°50 | 3°5 | 23°17 | 19°57 | | | | | | | | |
| S 18 | 17 43 48 | 26°34'25 | 20°42 | 3°29 | 20°24 | 2°50 | 1°6 | 23°58 | 19°55 | 28°27 | 18°51 | 1°48 | 3°2 | 23°24 | 19°D57 | | | | | | | | |
| M19 | 17 47 44 | 27°31'43 | 5♋7 | 4°30 | 21°38 | 3°27 | 1°10 | 24°5 | 19°54 | 28°25 | 18°53 | 1°D47 | 2°59 | 23°30 | 19°57 | | | | | | | | |
| T 20 | 17 51 41 | 28°29'00 | 19°19 | 5°35 | 22°52 | 4°4 | 1°14 | 24°12 | 19°52 | 28°24 | 18°54 | 1°48 | 2°56 | 23°37 | 19°57 | | | | | | | | |
| W21 | 17 55 37 | 29°26'17 | 3♋18 | 6°43 | 24°5 | 4°41 | 1°18 | 24°18 | 19°50 | 28°22 | 18°55 | 1°R48 | 2°53 | 23°44 | 19°58 | | | | | | | | |
| T 22 | 17 59 34 | 0♌23'34 | 17°3 | 7°54 | 25°19 | 5°18 | 1°22 | 24°25 | 19°48 | 28°20 | 18°57 | 1°47 | 2°49 | 23°50 | 19°58 | | | | | | | | |
| F 23 | 18 3 30 | 1°20'51 | 0♋36 | 9°9 | 26°33 | 5°56 | 1°27 | 24°32 | 19°47 | 28°19 | 18°58 | 1°43 | 2°46 | 23°57 | 19°59 | | | | | | | | |
| S 24 | 18 7 27 | 2°18'07 | 13°55 | 10°28 | 27°46 | 6°33 | 1°31 | 24°39 | 19°45 | 28°17 | 18°59 | 1°38 | 2°43 | 24°4 | 19°59 | | | | | | | | |
| S 25 | 18 11 23 | 3°15'24 | 27°2 | 11°50 | 29°0 | 7°10 | 1°36 | 24°45 | 19°43 | 28°15 | 19°1 | 1°30 | 2°40 | 24°10 | 20°0 | | | | | | | | |
| M26 | 18 15 20 | 4°12'40 | 9♐57 | 13°15 | 0♌14 | 7°47 | 1°41 | 24°52 | 19°42 | 28°14 | 19°2 | 1°20 | 2°37 | 24°17 | 20°1 | | | | | | | | |
| T 27 | 18 19 17 | 5°9'56 | 22°39 | 14°43 | 1°27 | 8°25 | 1°46 | 24°59 | 19°40 | 28°12 | 19°3 | 1°10 | 2°34 | 24°23 | 20°2 | | | | | | | | |
| W28 | 18 23 13 | 6°7'11 | 5♌8 | 16°15 | 2°41 | 9°2 | 1°51 | 25°5 | 19°39 | 28°11 | 19°5 | 1°1 | 2°30 | 24°30 | 20°3 | | | | | | | | |
| T 29 | 18 27 10 | 7°4'26 | 17°25 | 17°50 | 3°55 | 9°39 | 1°56 | 25°11 | 19°37 | 28°9 | 19°6 | 0°52 | 2°27 | 24°37 | 20°4 | | | | | | | | |
| F 30 | 18 31 6 | 8♌1'41 | 29♌31 | 19♐28 | 5♌8 | 10♌16 | 2♌2 | 25♋18 | 19♎36 | 28♌7 | 19♐7 | 0♎46 | 2♎24 | 24♌43 | 20♌5 | | | | | | | | |

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SWISS EPHEMERIS for the year 2147

JULY 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|-----------------------|---------------------|---------------------|--------------------|--------------------|-------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| S 1 | 18 35 3 | 8 ⁵⁸ 58'56 | 11 ^Ω 28 | 21 ^{II} 10 | 6 ^Ω 22 | 10 ^Ω 54 | 2 ^Ω 7 | 25 ^Ω 24 | 19 ^R 35 | 28 ^R 6 | 19 ^{II} 9 | 0 ^R 42 | 2 ^{II} 21 | 24 ^Ω 50 | 20 ^Ω 7 |
| S 2 | 18 38 59 | 9 ⁵⁶ 10 | 23 ¹⁸ | 22 ⁵⁴ | 7 ³⁶ | 11 ³¹ | 2 ¹³ | 25 ³¹ | 19 ^{II} 33 | 28 ^Ω 4 | 19 ¹⁰ | 0 ^{II} 40 | 2 ¹⁸ | 24 ⁵⁷ | 20 ⁸ |
| M 3 | 18 42 56 | 10 ⁵³ 24 | 5 ^{II} 5 | 24 ⁴¹ | 8 ⁴⁹ | 12 ⁸ | 2 ¹⁹ | 25 ³⁷ | 19 ³² | 28 ³ | 19 ¹¹ | 0 ^D 40 | 2 ¹⁵ | 25 ³ | 20 ¹⁰ |
| T 4 | 18 46 52 | 11 ⁵⁰ 37 | 16 ⁵³ | 26 ³² | 10 ³ | 12 ⁴⁶ | 2 ²⁵ | 25 ⁴³ | 19 ³¹ | 28 ¹ | 19 ¹³ | 0 ⁴⁰ | 2 ¹¹ | 25 ¹⁰ | 20 ¹² |
| W 5 | 18 50 49 | 12 ⁴⁷ 50 | 28 ⁴⁶ | 28 ²⁵ | 11 ¹⁷ | 13 ²³ | 2 ³¹ | 25 ⁴⁹ | 19 ³⁰ | 28 ⁰ | 19 ¹⁴ | 0 ⁴² | 2 ⁸ | 25 ¹⁷ | 20 ¹⁴ |
| T 6 | 18 54 46 | 13 ⁴⁵ 02 | 10 ^Ω 50 | 0 ^Ω 21 | 12 ³¹ | 14 ⁰ | 2 ³⁸ | 25 ⁵⁵ | 19 ²⁸ | 27 ⁵⁸ | 19 ¹⁵ | 0 ^R 43 | 2 ⁵ | 25 ²³ | 20 ¹⁶ |
| F 7 | 18 58 42 | 14 ⁴² 15 | 23 ⁹ | 2 ¹⁹ | 13 ⁴⁴ | 14 ³⁸ | 2 ⁴⁴ | 26 ¹ | 19 ²⁷ | 27 ⁵⁶ | 19 ¹⁷ | 0 ⁴² | 2 ² | 25 ³⁰ | 20 ¹⁸ |
| S 8 | 19 2 39 | 15 ³⁹ 27 | 5 ^{II} 50 | 4 ¹⁹ | 14 ⁵⁸ | 15 ¹⁵ | 2 ⁵¹ | 26 ⁷ | 19 ²⁶ | 27 ⁵⁵ | 19 ¹⁸ | 0 ⁴⁰ | 1 ⁵⁹ | 25 ³⁷ | 20 ²⁰ |
| S 9 | 19 6 35 | 16 ³⁶ 39 | 18 ⁵⁴ | 6 ²² | 16 ¹² | 15 ⁵² | 2 ⁵⁷ | 26 ¹³ | 19 ²⁵ | 27 ⁵³ | 19 ¹⁹ | 0 ³⁶ | 1 ⁵⁵ | 25 ⁴³ | 20 ²² |
| M10 | 19 10 32 | 17 ³³ 50 | 2 ^Ω 26 | 8 ²⁶ | 17 ²⁶ | 16 ³⁰ | 3 ⁴ | 26 ¹⁹ | 19 ²⁴ | 27 ⁵² | 19 ²⁰ | 0 ³¹ | 1 ⁵² | 25 ⁵⁰ | 20 ²⁵ |
| T 11 | 19 14 28 | 18 ³¹ 02 | 16 ²⁵ | 10 ³² | 18 ³⁹ | 17 ⁷ | 3 ¹¹ | 26 ²⁴ | 19 ²³ | 27 ⁵⁰ | 19 ²² | 0 ²⁵ | 1 ⁴⁹ | 25 ⁵⁶ | 20 ²⁷ |
| W12 | 19 18 25 | 19 ²⁸ 13 | 0 ^Ω 39 | 12 ⁴⁰ | 19 ⁵³ | 17 ⁴⁵ | 3 ¹⁸ | 26 ³⁰ | 19 ²³ | 27 ⁴⁹ | 19 ²³ | 0 ¹⁹ | 1 ⁴⁶ | 26 ³ | 20 ³⁰ |
| T 13 | 19 22 21 | 20 ²⁵ 25 | 15 ³² | 14 ⁴⁸ | 21 ⁷ | 18 ²² | 3 ²⁶ | 26 ³⁶ | 19 ²² | 27 ⁴⁷ | 19 ²⁴ | 0 ¹³ | 1 ⁴³ | 26 ¹⁰ | 20 ³² |
| F 14 | 19 26 18 | 21 ²² 36 | 0 ^Ω 28 | 16 ⁵⁷ | 22 ²¹ | 18 ⁵⁹ | 3 ³³ | 26 ⁴¹ | 19 ²¹ | 27 ⁴⁶ | 19 ²⁵ | 0 ⁹ | 1 ⁴⁰ | 26 ¹⁶ | 20 ³⁵ |
| S 15 | 19 30 15 | 22 ¹⁹ 48 | 15 ²⁸ | 19 ⁶ | 23 ³⁵ | 19 ³⁷ | 3 ⁴¹ | 26 ⁴⁷ | 19 ²⁰ | 27 ⁴⁵ | 19 ²⁶ | 0 ⁷ | 1 ³⁶ | 26 ²³ | 20 ³⁸ |
| S 16 | 19 34 11 | 23 ¹⁷ 00 | 0 ^Ω 23 | 21 ¹⁶ | 24 ⁴⁸ | 20 ¹⁴ | 3 ⁴⁸ | 26 ⁵² | 19 ²⁰ | 27 ⁴³ | 19 ²⁸ | 0 ^D 6 | 1 ³³ | 26 ³⁰ | 20 ⁴¹ |
| M17 | 19 38 8 | 24 ¹⁴ 13 | 15 ⁷ | 23 ²⁵ | 26 ² | 20 ⁵² | 3 ⁵⁶ | 26 ⁵⁸ | 19 ¹⁹ | 27 ⁴² | 19 ²⁹ | 0 ⁶ | 1 ³⁰ | 26 ³⁶ | 20 ⁴⁴ |
| T 18 | 19 42 4 | 25 ¹¹ 26 | 29 ³⁴ | 25 ³⁴ | 27 ¹⁶ | 21 ²⁹ | 4 ⁴ | 27 ³ | 19 ¹⁹ | 27 ⁴⁰ | 19 ³⁰ | 0 ⁸ | 1 ²⁷ | 26 ⁴³ | 20 ⁴⁸ |
| W19 | 19 46 1 | 26 ⁸ 40 | 13 ^Ω 41 | 27 ⁴² | 28 ³⁰ | 22 ⁷ | 4 ¹² | 27 ⁸ | 19 ¹⁸ | 27 ³⁹ | 19 ³¹ | 0 ⁹ | 1 ²⁴ | 26 ⁵⁰ | 20 ⁵¹ |
| T 20 | 19 49 57 | 27 ⁵ 54 | 27 ²⁸ | 29 ⁴⁹ | 29 ⁴⁴ | 22 ⁴⁴ | 4 ²⁰ | 27 ¹³ | 19 ¹⁸ | 27 ³⁸ | 19 ³² | 0 ^R 10 | 1 ²¹ | 26 ⁵⁶ | 20 ⁵⁴ |
| F 21 | 19 53 54 | 28 ³ 09 | 10 ^Ω 55 | 1 ^Ω 55 | 0 ^Ω 58 | 23 ²² | 4 ²⁸ | 27 ¹⁸ | 19 ¹⁷ | 27 ³⁶ | 19 ³³ | 0 ⁹ | 1 ¹⁷ | 27 ³ | 20 ⁵⁸ |
| S 22 | 19 57 50 | 29 ⁰ 25 | 24 ⁴ | 4 ⁰ | 2 ¹¹ | 23 ⁵⁹ | 4 ³⁶ | 27 ²³ | 19 ¹⁷ | 27 ³⁵ | 19 ³⁵ | 0 ⁷ | 1 ¹⁴ | 27 ¹⁰ | 21 ² |
| S 23 | 20 1 47 | 29 ⁵⁷ 42 | 6 ^{II} 57 | 6 ⁴ | 3 ²⁵ | 24 ³⁷ | 4 ⁴⁵ | 27 ²⁸ | 19 ¹⁶ | 27 ³⁴ | 19 ³⁶ | 0 ³ | 1 ¹¹ | 27 ¹⁶ | 21 ⁵ |
| M24 | 20 5 44 | 0 ^Ω 54'59 | 19 ³⁴ | 8 ⁶ | 4 ³⁹ | 25 ¹⁴ | 4 ⁵³ | 27 ³³ | 19 ¹⁶ | 27 ³² | 19 ³⁷ | 29 ^Ω 59 | 1 ⁸ | 27 ²³ | 21 ⁹ |
| T 25 | 20 9 40 | 1 ⁵² 17 | 1 ^Ω 59 | 10 ⁷ | 5 ⁵³ | 25 ⁵² | 5 ² | 27 ³⁸ | 19 ¹⁶ | 27 ³¹ | 19 ³⁸ | 29 ⁵⁴ | 1 ⁵ | 27 ³⁰ | 21 ¹³ |
| W26 | 20 13 37 | 2 ⁴⁹ 36 | 14 ¹³ | 12 ⁶ | 7 ⁷ | 26 ³⁰ | 5 ¹¹ | 27 ⁴³ | 19 ¹⁶ | 27 ³⁰ | 19 ³⁹ | 29 ⁵⁰ | 1 ¹ | 27 ³⁶ | 21 ¹⁷ |
| T 27 | 20 17 33 | 3 ⁴⁶ 55 | 26 ¹⁷ | 14 ⁴ | 8 ²¹ | 27 ⁷ | 5 ²⁰ | 27 ⁴⁷ | 19 ¹⁶ | 27 ²⁹ | 19 ⁴⁰ | 29 ⁴⁶ | 0 ⁵⁸ | 27 ⁴³ | 21 ²¹ |
| F 28 | 20 21 30 | 4 ⁴⁴ 15 | 8 ^Ω 14 | 16 ⁰ | 9 ³⁵ | 27 ⁴⁵ | 5 ²⁹ | 27 ⁵² | 19 ^D 16 | 27 ²⁷ | 19 ⁴¹ | 29 ⁴³ | 0 ⁵⁵ | 27 ⁴⁹ | 21 ²⁵ |
| S 29 | 20 25 26 | 5 ⁴¹ 36 | 20 ⁴ | 17 ⁵⁴ | 10 ⁴⁹ | 28 ²² | 5 ³⁸ | 27 ⁵⁶ | 19 ¹⁶ | 27 ²⁶ | 19 ⁴² | 29 ⁴² | 0 ⁵² | 27 ⁵⁶ | 21 ³⁰ |
| S 30 | 20 29 23 | 6 ³⁸ 57 | 1 ^{II} 52 | 19 ⁴⁷ | 12 ³ | 29 ⁰ | 5 ⁴⁷ | 28 ⁰ | 19 ¹⁶ | 27 ²⁵ | 19 ⁴³ | 29 ^D 41 | 0 ⁴⁹ | 28 ³ | 21 ³⁴ |
| M31 | 20 33 19 | 7 ^Ω 36'19 | 13 ^{II} 38 | 21 ^Ω 38 | 13 ^Ω 17 | 29 ^Ω 38 | 5 ^Ω 56 | 28 ^Ω 5 | 19 ^{II} 16 | 27 ^Ω 24 | 19 ^{II} 44 | 29 ^Ω 42 | 0 ^{II} 46 | 28 ^Ω 9 | 21 ^Ω 39 |

Delta T = 312.48 sec.

AUGUST 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------------------|---------------------|--------------------|--------------------|--------------------|------------------|-------------------|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| T 1 | 20 37 16 | 8 ^Ω 33'41 | 25 ^{II} 27 | 23 ^Ω 27 | 14 ^Ω 31 | 0 ^{II} 15 | 6 ^Ω 6 | 28 ^Ω 9 | 19 ^{II} 16 | 27 ^R 23 | 19 ^{II} 45 | 29 ^Ω 43 | 0 ^{II} 42 | 28 ^Ω 16 | 21 ^Ω 43 |
| W 2 | 20 41 13 | 9 ³¹ 04 | 7 ^Ω 21 | 25 ¹⁴ | 15 ⁴⁵ | 0 ⁵³ | 6 ¹⁵ | 28 ¹³ | 19 ¹⁶ | 27 ^Ω 22 | 19 ⁴⁶ | 29 ⁴⁵ | 0 ³⁹ | 28 ²³ | 21 ⁴⁸ |
| T 3 | 20 45 9 | 10 ²⁸ 27 | 19 ²⁶ | 27 ⁰ | 16 ⁵⁹ | 1 ³¹ | 6 ²⁵ | 28 ¹⁷ | 19 ¹⁶ | 27 ²¹ | 19 ⁴⁷ | 29 ⁴⁶ | 0 ³⁶ | 28 ²⁹ | 21 ⁵³ |
| F 4 | 20 49 6 | 11 ²⁵ 51 | 1 ^{II} 45 | 28 ⁴⁴ | 18 ¹³ | 2 ⁹ | 6 ³⁴ | 28 ²¹ | 19 ¹⁷ | 27 ¹⁹ | 19 ⁴⁸ | 29 ⁴⁷ | 0 ³³ | 28 ³⁶ | 21 ⁵⁸ |
| S 5 | 20 53 2 | 12 ²³ 16 | 14 ²³ | 0 ^{II} 27 | 19 ²⁷ | 2 ⁴⁶ | 6 ⁴⁴ | 28 ²⁵ | 19 ¹⁷ | 27 ¹⁸ | 19 ⁴⁹ | 29 ^R 48 | 0 ³⁰ | 28 ⁴³ | 22 ² |
| S 6 | 20 56 59 | 13 ²⁰ 41 | 27 ²³ | 2 ⁷ | 20 ⁴¹ | 3 ²⁴ | 6 ⁵⁴ | 28 ²⁹ | 19 ¹⁸ | 27 ¹⁷ | 19 ⁵⁰ | 29 ⁴⁷ | 0 ²⁶ | 28 ⁴⁹ | 22 ⁸ |
| M 7 | 21 0 55 | 14 ¹⁸ 07 | 10 ^Ω 50 | 3 ⁴⁶ | 21 ⁵⁵ | 4 ² | 7 ⁴ | 28 ³² | 19 ¹⁸ | 27 ¹⁶ | 19 ⁵¹ | 29 ⁴⁶ | 0 ²³ | 28 ⁵⁶ | 22 ¹³ |
| T 8 | 21 4 52 | 15 ¹⁵ 34 | 24 ⁴⁴ | 5 ²⁴ | 23 ⁹ | 4 ⁴⁰ | 7 ¹⁴ | 28 ³⁶ | 19 ¹⁹ | 27 ¹⁵ | 19 ⁵¹ | 29 ⁴⁴ | 0 ²⁰ | 29 ³ | 22 ¹⁸ |
| W 9 | 21 8 48 | 16 ¹³ 01 | 9 ^Ω 5 | 7 ⁰ | 24 ²³ | 5 ¹⁷ | 7 ²⁴ | 28 ³⁹ | 19 ¹⁹ | 27 ¹⁵ | 19 ⁵² | 29 ⁴³ | 0 ¹⁷ | 29 ⁹ | 22 ²³ |
| T 10 | 21 12 45 | 17 ¹⁰ 30 | 23 ⁴⁹ | 8 ³⁴ | 25 ³⁷ | 5 ⁵⁵ | 7 ³⁴ | 28 ⁴³ | 19 ²⁰ | 27 ¹⁴ | 19 ⁵³ | 29 ⁴¹ | 0 ¹⁴ | 29 ¹⁶ | 22 ²⁹ |
| F 11 | 21 16 42 | 18 ⁷ 59 | 8 ^Ω 50 | 10 ⁶ | 26 ⁵¹ | 6 ³³ | 7 ⁴⁵ | 28 ⁴⁶ | 19 ²⁰ | 27 ¹³ | 19 ⁵⁴ | 29 ⁴⁰ | 0 ¹¹ | 29 ²² | 22 ³⁴ |
| S 12 | 21 20 38 | 19 ⁵ 29 | 24 ¹ | 11 ³⁷ | 28 ⁵ | 7 ¹¹ | 7 ⁵⁵ | 28 ⁴⁹ | 19 ²¹ | 27 ¹² | 19 ⁵⁵ | 29 ^D 40 | 0 ⁷ | 29 ²⁹ | 22 ⁴⁰ |
| S 13 | 21 24 35 | 20 ³ 00 | 9 ^Ω 11 | 13 ⁷ | 29 ¹⁹ | 7 ⁴⁹ | 8 ⁶ | 28 ⁵² | 19 ²² | 27 ¹¹ | 19 ⁵⁶ | 29 ⁴⁰ | 0 ⁴ | 29 ³⁶ | 22 ⁴⁵ |
| M14 | 21 28 31 | 21 ⁰ 32 | 24 ¹² | 14 ³⁴ | 0 ^{II} 33 | 8 ²⁷ | 8 ¹⁶ | 28 ⁵⁵ | 19 ²³ | 27 ¹⁰ | 19 ⁵⁶ | 29 ⁴⁰ | 0 ¹ | 29 ⁴² | 22 ⁵¹ |
| T 15 | 21 32 28 | 21 ⁵⁸ 06 | 8 ^Ω 55 | 16 ⁰ | 1 ⁴⁷ | 9 ⁵ | 8 ²⁷ | 28 ⁵⁸ | 19 ²⁴ | 27 ¹⁰ | 19 ⁵⁷ | 29 ⁴¹ | 29 ^Ω 58 | 29 ⁴⁹ | 22 ⁵⁷ |
| W16 | 21 36 24 | 22 ⁵⁵ 40 | 23 ¹⁶ | 17 ²⁴ | 3 ¹ | 9 ⁴³ | 8 ³⁷ | 29 ¹ | 19 ²⁵ | 27 ⁹ | 19 ⁵⁸ | 29 ⁴¹ | 29 ⁵⁵ | 29 ⁵⁶ | 23 ² |
| T 17 | 21 40 21 | 23 ⁵³ 17 | 7 ^Ω 12 | 18 ⁴⁷ | 4 ¹⁵ | 10 ²¹ | 8 ⁴⁸ | 29 ⁴ | 19 ²⁶ | 27 ⁸ | 19 ⁵⁸ | 29 ⁴² | 29 ⁵² | 0 ^{II} 2 | 23 ⁸ |
| F 18 | 21 44 17 | 24 ⁵⁰ 55 | 20 ⁴³ | 20 ⁷ | 5 ²⁹ | 10 ⁵⁹ | 8 ⁵⁹ | 29 ⁷ | 19 ²⁷ | 27 ⁷ | 19 ⁵⁹ | 29 ^R 42 | 29 ⁴⁸ | 0 ⁹ | 23 ¹⁴ |
| S 19 | 21 48 14 | 25 ⁴⁸ 35 | 3 ^{II} 50 | 21 ²⁶ | 6 ⁴³ | 11 ³⁷ | 9 ¹⁰ | 29 ⁹ | 19 ²⁸ | 27 ⁷ | 20 ⁰ | 29 ⁴² | 29 ⁴⁵ | 0 ¹⁶ | 23 ²⁰ |
| S 20 | 21 52 11 | 26 ⁴⁶ 16 | 16 ³⁶ | 22 ⁴³ | 7 ⁵⁷ | 12 ¹⁵ | 9 ²¹ | 29 ¹² | 19 ²⁹ | 27 ⁶ | 20 ⁰ | 29 ⁴² | 29 ⁴² | 0 ²² | 23 ²⁷ |
| M21 | 21 56 7 | 27 ⁴³ 58 | 29 ⁵ | 23 ⁵⁸ | 9 ¹¹ | 12 ⁵³ | 9 ³² | 29 ¹⁴ | 19 ³⁰ | 27 ⁵ | 20 ¹ | 29 ⁴² | 29 ³⁹ | 0 ²⁹ | 23 ³³ |
| T 22 | 22 0 4 | 28 ⁴¹ 43 | 11 ^Ω 18 | 25 ¹² | 10 ²⁵ | 13 ³¹ | 9 ⁴³ | 29 ¹⁶ | 19 ³¹ | 27 ⁵ | 20 ² | 29 ⁴¹ | 29 ³⁶ | 0 ³⁶ | 23 ³⁹ |
| W23 | 22 4 0</ | | | | | | | | | | | | | | |

SWISS EPHEMERIS for the year 2147

SEPTEMBER 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|-------|------|-------|---|
| F 1 | 22 39 29 | 8♍20'26 | 10♌57 | 5♊14 | 22♎46 | 19♏53 | 11♋38 | 29♄33 | 19♌46 | 27°R 1 | 20♐7 | 29°R38 | 29♌4 | 1♎42 | 24♋46 | |
| S 2 | 22 43 26 | 9°18'26 | 23°35 | 5°59 | 24°0 | 20°31 | 11°50 | 29°34 | 19°48 | 27♁1 | 20°7 | 29♌37 | 29°1 | 1°49 | 24°53 | |
| S 3 | 22 47 22 | 10°16'27 | 6♁33 | 6°40 | 25°14 | 21°9 | 12°2 | 29°35 | 19°50 | 27°0 | 20°8 | 29°D37 | 28°58 | 1°55 | 25°0 | |
| M 4 | 22 51 19 | 11°14'30 | 19°53 | 7°17 | 26°28 | 21°47 | 12°14 | 29°36 | 19°52 | 27°0 | 20°8 | 29°37 | 28°54 | 2°2 | 25°7 | |
| T 5 | 22 55 15 | 12°12'34 | 3♄37 | 7°50 | 27°42 | 22°26 | 12°26 | 29°37 | 19°54 | 27°0 | 20°8 | 29°37 | 28°51 | 2°9 | 25°14 | |
| W 6 | 22 59 12 | 13°10'40 | 17°46 | 8°18 | 28°56 | 23°4 | 12°38 | 29°37 | 19°56 | 27°0 | 20°9 | 29°38 | 28°48 | 2°15 | 25°21 | |
| T 7 | 23 3 9 | 14°8'46 | 2♁18 | 8°42 | 0♊11 | 23°43 | 12°50 | 29°38 | 19°58 | 27°0 | 20°9 | 29°39 | 28°45 | 2°22 | 25°29 | |
| F 8 | 23 7 5 | 15°6'55 | 17°10 | 9°1 | 1°25 | 24°21 | 13°2 | 29°38 | 20°0 | 27°0 | 20°9 | 29°40 | 28°42 | 2°29 | 25°36 | |
| S 9 | 23 11 2 | 16°5'04 | 2♁15 | 9°15 | 2°39 | 25°0 | 13°14 | 29°39 | 20°2 | 27°D 0 | 20°9 | 29°R41 | 28°38 | 2°35 | 25°43 | |
| S 10 | 23 14 58 | 17°3'16 | 17°26 | 9°23 | 3°53 | 25°38 | 13°26 | 29°39 | 20°4 | 27°0 | 20°10 | 29°40 | 28°35 | 2°42 | 25°51 | |
| M11 | 23 18 55 | 18°1'29 | 2♁33 | 9°R25 | 5°7 | 26°17 | 13°39 | 29°39 | 20°6 | 27°0 | 20°10 | 29°38 | 28°32 | 2°48 | 25°58 | |
| T 12 | 23 22 51 | 18°59'44 | 17°26 | 9°22 | 6°21 | 26°55 | 13°51 | 29°R39 | 20°8 | 27°0 | 20°10 | 29°36 | 28°29 | 2°55 | 26°6 | |
| W13 | 23 26 48 | 19°58'01 | 1♄59 | 9°11 | 7°35 | 27°34 | 14°3 | 29°39 | 20°11 | 27°0 | 20°10 | 29°34 | 28°26 | 3°2 | 26°13 | |
| T 14 | 23 30 44 | 20°56'20 | 16°5 | 8°55 | 8°49 | 28°12 | 14°16 | 29°39 | 20°13 | 27°0 | 20°10 | 29°31 | 28°23 | 3°8 | 26°21 | |
| F 15 | 23 34 41 | 21°54'41 | 29°44 | 8°31 | 10°3 | 28°51 | 14°28 | 29°38 | 20°15 | 27°1 | 20°10 | 29°29 | 28°19 | 3°15 | 26°29 | |
| S 16 | 23 38 37 | 22°53'04 | 12♐56 | 8°1 | 11°17 | 29°29 | 14°41 | 29°38 | 20°18 | 27°1 | 20°11 | 29°27 | 28°16 | 3°22 | 26°37 | |
| S 17 | 23 42 34 | 23°51'30 | 25°43 | 7°25 | 12°31 | 0♊8 | 14°53 | 29°38 | 20°20 | 27°1 | 20°11 | 29°D27 | 28°13 | 3°28 | 26°44 | |
| M18 | 23 46 31 | 24°49'57 | 8♄8 | 6°42 | 13°45 | 0°47 | 15°6 | 29°37 | 20°22 | 27°1 | 20°11 | 29°28 | 28°10 | 3°35 | 26°52 | |
| T 19 | 23 50 27 | 25°48'27 | 20°18 | 5°53 | 14°59 | 1°26 | 15°18 | 29°36 | 20°25 | 27°2 | 20°11 | 29°29 | 28°7 | 3°42 | 27°0 | |
| W20 | 23 54 24 | 26°46'59 | 2♌15 | 4°59 | 16°13 | 2°4 | 15°31 | 29°35 | 20°28 | 27°2 | 20°R11 | 29°31 | 28°3 | 3°48 | 27°8 | |
| T 21 | 23 58 20 | 27°45'32 | 14°5 | 4°1 | 17°27 | 2°43 | 15°43 | 29°34 | 20°30 | 27°2 | 20°11 | 29°32 | 28°0 | 3°55 | 27°16 | |
| F 22 | 0 2 17 | 28°44'08 | 25°52 | 2°59 | 18°41 | 3°22 | 15°56 | 29°33 | 20°33 | 27°3 | 20°11 | 29°R33 | 27°57 | 4°2 | 27°24 | |
| S 23 | 0 6 13 | 29°42'46 | 7♎39 | 1°55 | 19°55 | 4°1 | 16°9 | 29°32 | 20°35 | 27°3 | 20°11 | 29°33 | 27°54 | 4°8 | 27°32 | |
| S 24 | 0 10 10 | 0♋41'26 | 19°29 | 0°51 | 21°9 | 4°40 | 16°22 | 29°31 | 20°38 | 27°4 | 20°11 | 29°31 | 27°51 | 4°15 | 27°40 | |
| M25 | 0 14 6 | 1°40'08 | 1♋24 | 29♎47 | 22°23 | 5°18 | 16°34 | 29°30 | 20°41 | 27°4 | 20°10 | 29°28 | 27°48 | 4°21 | 27°48 | |
| T 26 | 0 18 3 | 2°38'52 | 13°28 | 28°46 | 23°38 | 5°57 | 16°47 | 29°28 | 20°44 | 27°5 | 20°10 | 29°23 | 27°44 | 4°28 | 27°56 | |
| W27 | 0 22 0 | 3°37'38 | 25°40 | 27°49 | 24°52 | 6°36 | 17°0 | 29°26 | 20°46 | 27°5 | 20°10 | 29°17 | 27°41 | 4°35 | 28°4 | |
| T 28 | 0 25 56 | 4°36'26 | 8♌2 | 26°58 | 26°6 | 7°15 | 17°13 | 29°25 | 20°49 | 27°6 | 20°10 | 29°11 | 27°38 | 4°41 | 28°12 | |
| F 29 | 0 29 53 | 5°35'15 | 20°37 | 26°14 | 27°20 | 7°54 | 17°26 | 29°23 | 20°52 | 27°7 | 20°10 | 29°5 | 27°35 | 4°48 | 28°21 | |
| S 30 | 0 33 49 | 6♋34'07 | 3♁24 | 25♎38 | 28♋34 | 8♋33 | 17♋38 | 29♄21 | 20♌55 | 27♁7 | 20♐10 | 29♌0 | 27♌32 | 4♎55 | 28♋29 | |

Delta T = 312.82 sec.

OCTOBER 2147

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|--------|-------|-------|-------|--------|-------|-------|--------|--------|-------|------|-------|---|
| S 1 | 0 37 46 | 7♋33'00 | 16♁26 | 25°R11 | 29♋48 | 9♊12 | 17♋51 | 29°R19 | 20♌58 | 27♁8 | 20°R 9 | 28°R56 | 27♌29 | 5♎1 | 28♋37 | |
| M 2 | 0 41 42 | 8°31'55 | 29°45 | 24♎53 | 1♌2 | 9°51 | 18°4 | 29♄17 | 21°1 | 27°9 | 20♐9 | 28♌54 | 27°25 | 5°8 | 28°46 | |
| T 3 | 0 45 39 | 9°30'51 | 13♄21 | 24°D46 | 2°16 | 10°31 | 18°17 | 29°15 | 21°4 | 27°10 | 20°9 | 28°D54 | 27°22 | 5°15 | 28°54 | |
| W 4 | 0 49 35 | 10°29'50 | 27°17 | 24°49 | 3°29 | 11°10 | 18°30 | 29°12 | 21°7 | 27°10 | 20°9 | 28°55 | 27°19 | 5°21 | 29°2 | |
| T 5 | 0 53 32 | 11°28'50 | 11♋32 | 25°3 | 4°43 | 11°49 | 18°43 | 29°10 | 21°10 | 27°11 | 20°8 | 28°56 | 27°16 | 5°28 | 29°11 | |
| F 6 | 0 57 29 | 12°27'52 | 26°5 | 25°26 | 5°57 | 12°28 | 18°56 | 29°8 | 21°13 | 27°12 | 20°8 | 28°R57 | 27°13 | 5°35 | 29°19 | |
| S 7 | 1 1 25 | 13°26'55 | 10♁52 | 25°59 | 7°11 | 13°7 | 19°9 | 29°5 | 21°16 | 27°13 | 20°8 | 28°57 | 27°9 | 5°41 | 29°27 | |
| S 8 | 1 5 22 | 14°26'01 | 25°48 | 26°42 | 8°25 | 13°47 | 19°22 | 29°2 | 21°19 | 27°14 | 20°7 | 28°54 | 27°6 | 5°48 | 29°36 | |
| M 9 | 1 9 18 | 15°25'08 | 10♁44 | 27°32 | 9°39 | 14°26 | 19°35 | 29°0 | 21°23 | 27°15 | 20°7 | 28°49 | 27°3 | 5°54 | 29°44 | |
| T 10 | 1 13 15 | 16°24'17 | 25°33 | 28°31 | 10°53 | 15°5 | 19°48 | 28°57 | 21°26 | 27°16 | 20°6 | 28°43 | 27°0 | 6°1 | 29°53 | |
| W11 | 1 17 11 | 17°23'28 | 10♄6 | 29°36 | 12°7 | 15°45 | 20°1 | 28°54 | 21°29 | 27°17 | 20°6 | 28°35 | 26°57 | 6°8 | 0♌1 | |
| T 12 | 1 21 8 | 18°22'42 | 24°17 | 0♊48 | 13°21 | 16°24 | 20°14 | 28°51 | 21°32 | 27°18 | 20°6 | 28°27 | 26°54 | 6°14 | 0°10 | |
| F 13 | 1 25 4 | 19°21'58 | 8♐1 | 2°5 | 14°35 | 17°3 | 20°27 | 28°48 | 21°36 | 27°19 | 20°5 | 28°20 | 26°50 | 6°21 | 0°18 | |
| S 14 | 1 29 1 | 20°21'16 | 21°18 | 3°27 | 15°49 | 17°43 | 20°40 | 28°44 | 21°39 | 27°20 | 20°5 | 28°14 | 26°47 | 6°28 | 0°27 | |
| S 15 | 1 32 57 | 21°20'37 | 4♄8 | 4°53 | 17°2 | 18°22 | 20°53 | 28°41 | 21°42 | 27°21 | 20°4 | 28°11 | 26°44 | 6°34 | 0°35 | |
| M16 | 1 36 54 | 22°19'59 | 16°36 | 6°22 | 18°16 | 19°2 | 21°6 | 28°38 | 21°46 | 27°23 | 20°4 | 28°9 | 26°41 | 6°41 | 0°44 | |
| T 17 | 1 40 51 | 23°19'24 | 28°45 | 7°55 | 19°30 | 19°41 | 21°19 | 28°34 | 21°49 | 27°24 | 20°3 | 28°D 9 | 26°38 | 6°48 | 0°53 | |
| W18 | 1 44 47 | 24°18'52 | 10♌42 | 9°29 | 20°44 | 20°21 | 21°32 | 28°31 | 21°52 | 27°25 | 20°2 | 28°10 | 26°35 | 6°54 | 1°1 | |
| T 19 | 1 48 44 | 25°18'21 | 22°31 | 11°6 | 21°58 | 21°0 | 21°45 | 28°27 | 21°56 | 27°26 | 20°2 | 28°R11 | 26°31 | 7°1 | 1°10 | |
| F 20 | 1 52 40 | 26°17'53 | 4♎17 | 12°45 | 23°12 | 21°40 | 21°58 | 28°23 | 21°59 | 27°28 | 20°1 | 28°11 | 26°28 | 7°8 | 1°18 | |
| S 21 | 1 56 37 | 27°17'27 | 16°6 | 14°24 | 24°25 | 22°20 | 22°11 | 28°20 | 22°3 | 27°29 | 20°1 | 28°9 | 26°25 | 7°14 | 1°27 | |
| S 22 | 2 0 33 | 28°17'03 | 28°1 | 16°4 | 25°39 | 22°59 | 22°24 | 28°16 | 22°6 | 27°30 | 20°0 | 28°5 | 26°22 | 7°21 | 1°36 | |
| M23 | 2 4 30 | 29°16'41 | 10♋5 | 17°46 | 26°53 | 23°39 | 22°37 | 28°12 | 22°10 | 27°32 | 19°59 | 27°58 | 26°19 | 7°28 | 1°44 | |
| T 24 | 2 8 26 | 0♌16'22 | 22°20 | 19°27 | 28°7 | 24°19 | 22°50 | 28°8 | 22°13 | 27°33 | 19°59 | 27°48 | 26°15 | 7°34 | 1°53 | |
| W25 | 2 12 23 | 1°16'04 | 4♌48 | 21°9 | 29°21 | 24°59 | 23°3 | 28°4 | 22°17 | 27°34 | 19°58 | 27°37 | 26°12 | 7°41 | 2°1 | |
| T 26 | 2 16 20 | 2°15'49 | 17°29 | 22°51 | 0♁34 | 25°39 | 23°16 | 28°0 | 22°20 | 27°36 | 19°57 | 27°25 | 26°9 | 7°47 | 2°10 | |
| F 27 | 2 20 16 | 3°15'35 | 0♁22 | 24°33 | 1°48 | 26°18 | 23°29 | 27°56 | 22°24 | 27°37 | 19°57 | 27°14 | 26°6 | 7°54 | 2°19 | |
| S 28 | 2 24 13 | 4°15'23 | 13°27 | 26°14 | 3°2 | 26°58 | 23°42 | 27°51 | 22°27 | 27°39 | 19°56 | 27°3 | 26°3 | 8°1 | 2°27 | |
| S 29 | 2 28 9 | 5°15'14 | 26°44 | 27°56 | 4°16 | 27°38 | 23°55 | 27°47 | 22°31 | 27°40 | 19°55 | 26°55 | 26°0 | 8°7 | 2°36 | |
| M30 | 2 32 6 | 6°15'05 | 10♄12 | 29°37 | 5°29 | 28°18 | 24°8 | 27°43 | 22°35 | 27°42 | 19°54 | 26°50 | 25°56 | 8°14 | 2°45 | |
| T 31 | 2 36 2 | 7♌14'59 | 23♄51 | 1♌18 | 6♁43 | 28♋58 | 24♋20 | 27♄38 | 22♌38 | 27♁44 | 19♐53 | 26♌47 | 25♌53 | 8♎21 | 2♌53 | |

Delta T = 312.99 sec.

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SWISS EPHEMERIS for the year 2147

NOVEMBER 2147

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|------|
| W 1 | 2 39 59 | 8♁14'54 | 7♁42 | 2♁58 | 7♁57 | 29♁38 | 24♁33 | 27°R34 | 22♁42 | 27♁45 | 19°R53 | 26♁47 | 25♁50 | 8♁27 | 3♁ 2 |
| T 2 | 2 43 55 | 9°14'51 | 21°44 | 4°39 | 9°10 | 0♁18 | 24°46 | 27♁30 | 22°46 | 27°47 | 19♁52 | 26°R47 | 25°47 | 8°34 | 3°10 |
| F 3 | 2 47 52 | 10°14'49 | 5♁58 | 6°18 | 10°24 | 0°58 | 24°59 | 27°25 | 22°49 | 27°48 | 19°51 | 26°47 | 25°44 | 8°41 | 3°19 |
| S 4 | 2 51 49 | 11°14'48 | 20°22 | 7°58 | 11°38 | 1°39 | 25°12 | 27°20 | 22°53 | 27°50 | 19°50 | 26°45 | 25°40 | 8°47 | 3°28 |
| S 5 | 2 55 45 | 12°14'50 | 4♁53 | 9°37 | 12°51 | 2°19 | 25°24 | 27°16 | 22°57 | 27°52 | 19°49 | 26°40 | 25°37 | 8°54 | 3°36 |
| M 6 | 2 59 42 | 13°14'53 | 19°27 | 11°15 | 14° 5 | 2°59 | 25°37 | 27°11 | 23° 0 | 27°53 | 19°48 | 26°33 | 25°34 | 9° 1 | 3°45 |
| T 7 | 3 3 38 | 14°14'57 | 3♁56 | 12°53 | 15°19 | 3°39 | 25°50 | 27° 6 | 23° 4 | 27°55 | 19°47 | 26°23 | 25°31 | 9° 7 | 3°53 |
| W 8 | 3 7 35 | 15°15'04 | 18°14 | 14°31 | 16°32 | 4°19 | 26° 3 | 27° 2 | 23° 8 | 27°57 | 19°47 | 26°12 | 25°28 | 9°14 | 4° 2 |
| T 9 | 3 11 31 | 16°15'12 | 2♁16 | 16° 8 | 17°46 | 5° 0 | 26°15 | 26°57 | 23°11 | 27°59 | 19°46 | 25°59 | 25°25 | 9°21 | 4°10 |
| F 10 | 3 15 28 | 17°15'23 | 15°56 | 17°45 | 18°59 | 5°40 | 26°28 | 26°52 | 23°15 | 28° 1 | 19°45 | 25°48 | 25°21 | 9°27 | 4°19 |
| S 11 | 3 19 24 | 18°15'35 | 29°11 | 19°21 | 20°13 | 6°20 | 26°40 | 26°47 | 23°19 | 28° 2 | 19°44 | 25°38 | 25°18 | 9°34 | 4°27 |
| S 12 | 3 23 21 | 19°15'49 | 12♁ 3 | 20°57 | 21°26 | 7° 1 | 26°53 | 26°43 | 23°23 | 28° 4 | 19°43 | 25°31 | 25°15 | 9°40 | 4°36 |
| M13 | 3 27 18 | 20°16'05 | 24°32 | 22°33 | 22°40 | 7°41 | 27° 5 | 26°38 | 23°26 | 28° 6 | 19°42 | 25°26 | 25°12 | 9°47 | 4°44 |
| T 14 | 3 31 14 | 21°16'23 | 6♁43 | 24° 8 | 23°53 | 8°22 | 27°18 | 26°33 | 23°30 | 28° 8 | 19°41 | 25°24 | 25° 9 | 9°54 | 4°52 |
| W15 | 3 35 11 | 22°16'44 | 18°41 | 25°43 | 25° 7 | 9° 2 | 27°30 | 26°28 | 23°34 | 28°10 | 19°40 | 25°23 | 25° 6 | 10° 0 | 5° 1 |
| T 16 | 3 39 7 | 23°17'05 | 0♁31 | 27°18 | 26°20 | 9°43 | 27°43 | 26°23 | 23°38 | 28°12 | 19°39 | 25°23 | 25° 2 | 10° 7 | 5° 9 |
| F 17 | 3 43 4 | 24°17'29 | 12°18 | 28°52 | 27°33 | 10°23 | 27°55 | 26°18 | 23°41 | 28°14 | 19°38 | 25°23 | 24°59 | 10°14 | 5°18 |
| S 18 | 3 47 0 | 25°17'55 | 24° 9 | 0♁27 | 28°47 | 11° 4 | 28° 7 | 26°13 | 23°45 | 28°16 | 19°37 | 25°20 | 24°56 | 10°20 | 5°26 |
| S 19 | 3 50 57 | 26°18'23 | 6♁ 7 | 2° 0 | 0♁ 0 | 11°45 | 28°20 | 26° 8 | 23°49 | 28°18 | 19°36 | 25°15 | 24°53 | 10°27 | 5°34 |
| M20 | 3 54 53 | 27°18'52 | 18°18 | 3°34 | 1°14 | 12°25 | 28°32 | 26° 4 | 23°52 | 28°20 | 19°35 | 25° 8 | 24°50 | 10°34 | 5°42 |
| T 21 | 3 58 50 | 28°19'23 | 0♁44 | 5° 8 | 2°27 | 13° 6 | 28°44 | 25°59 | 23°56 | 28°22 | 19°34 | 24°57 | 24°46 | 10°40 | 5°51 |
| W22 | 4 2 47 | 29°19'56 | 13°26 | 6°41 | 3°40 | 13°47 | 28°56 | 25°54 | 24° 0 | 28°24 | 19°32 | 24°45 | 24°43 | 10°47 | 5°59 |
| T 23 | 4 6 43 | 0♁20'30 | 26°26 | 8°14 | 4°54 | 14°28 | 29° 8 | 25°49 | 24° 4 | 28°26 | 19°31 | 24°31 | 24°40 | 10°54 | 6° 7 |
| F 24 | 4 10 40 | 1°21'06 | 9♁42 | 9°46 | 6° 7 | 15° 9 | 29°20 | 25°44 | 24° 7 | 28°28 | 19°30 | 24°18 | 24°37 | 11° 0 | 6°15 |
| S 25 | 4 14 36 | 2°21'44 | 23°11 | 11°19 | 7°20 | 15°49 | 29°32 | 25°39 | 24°11 | 28°30 | 19°29 | 24° 6 | 24°34 | 11° 7 | 6°23 |
| S 26 | 4 18 33 | 3°22'22 | 6♁52 | 12°51 | 8°33 | 16°30 | 29°44 | 25°34 | 24°15 | 28°32 | 19°28 | 23°56 | 24°31 | 11°14 | 6°31 |
| M27 | 4 22 29 | 4°23'03 | 20°41 | 14°24 | 9°46 | 17°11 | 29°56 | 25°30 | 24°18 | 28°34 | 19°27 | 23°50 | 24°27 | 11°20 | 6°39 |
| T 28 | 4 26 26 | 5°23'44 | 4♁36 | 15°56 | 11° 0 | 17°52 | 0♁ 8 | 25°25 | 24°22 | 28°36 | 19°26 | 23°46 | 24°24 | 11°27 | 6°47 |
| W29 | 4 30 22 | 6°24'26 | 18°35 | 17°27 | 12°13 | 18°33 | 0°19 | 25°20 | 24°26 | 28°38 | 19°25 | 23°D45 | 24°21 | 11°34 | 6°55 |
| T 30 | 4 34 19 | 7♁25'09 | 2♁37 | 18♁59 | 13♁26 | 19♁14 | 0♁31 | 25♁15 | 24♁30 | 28♁41 | 19♁24 | 23°R45 | 24♁18 | 11♁40 | 7♁ 3 |

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|------|---------|----------|-------|--------|-------|-------|------|--------|-------|-------|--------|--------|-------|-------|-------|
| F 1 | 4 38 16 | 8♁25'53 | 16♁43 | 20♁31 | 14♁39 | 19♁55 | 0♁43 | 25°R11 | 24♁33 | 28♁43 | 19°R23 | 23°R45 | 24♁15 | 11♁47 | 7♁11 |
| S 2 | 4 42 12 | 9°26'38 | 0♁50 | 22° 2 | 15°52 | 20°37 | 0°54 | 25♁ 6 | 24°37 | 28°45 | 19♁21 | 23♁43 | 24°12 | 11°54 | 7°19 |
| S 3 | 4 46 9 | 10°27'24 | 14°58 | 23°33 | 17° 5 | 21°18 | 1° 6 | 25° 1 | 24°40 | 28°47 | 19°20 | 23°39 | 24° 8 | 12° 0 | 7°27 |
| M 4 | 4 50 5 | 11°28'11 | 29° 4 | 25° 4 | 18°18 | 21°59 | 1°17 | 24°57 | 24°44 | 28°49 | 19°19 | 23°33 | 24° 5 | 12° 7 | 7°34 |
| T 5 | 4 54 2 | 12°28'59 | 13♁ 6 | 26°34 | 19°30 | 22°40 | 1°28 | 24°52 | 24°48 | 28°51 | 19°18 | 23°23 | 24° 2 | 12°13 | 7°42 |
| W 6 | 4 57 58 | 13°29'49 | 26°59 | 28° 4 | 20°43 | 23°21 | 1°40 | 24°48 | 24°51 | 28°54 | 19°17 | 23°12 | 23°59 | 12°20 | 7°50 |
| T 7 | 5 1 55 | 14°30'39 | 10♁39 | 29°34 | 21°56 | 24° 3 | 1°51 | 24°43 | 24°55 | 28°56 | 19°16 | 23° 0 | 23°56 | 12°27 | 7°57 |
| F 8 | 5 5 51 | 15°31'30 | 24° 2 | 1♁ 4 | 23° 9 | 24°44 | 2° 2 | 24°39 | 24°58 | 28°58 | 19°15 | 22°48 | 23°52 | 12°33 | 8° 5 |
| S 9 | 5 9 48 | 16°32'22 | 7♁ 6 | 2°33 | 24°21 | 25°25 | 2°13 | 24°34 | 25° 2 | 29° 0 | 19°13 | 22°39 | 23°49 | 12°40 | 8°12 |
| S 10 | 5 13 45 | 17°33'16 | 19°52 | 4° 1 | 25°34 | 26° 7 | 2°24 | 24°30 | 25° 6 | 29° 2 | 19°12 | 22°31 | 23°46 | 12°47 | 8°20 |
| M11 | 5 17 41 | 18°34'10 | 2♁18 | 5°29 | 26°47 | 26°48 | 2°35 | 24°26 | 25° 9 | 29° 5 | 19°11 | 22°27 | 23°43 | 12°53 | 8°27 |
| T 12 | 5 21 38 | 19°35'06 | 14°28 | 6°55 | 27°59 | 27°30 | 2°46 | 24°22 | 25°13 | 29° 7 | 19°10 | 22°25 | 23°40 | 13° 0 | 8°34 |
| W13 | 5 25 34 | 20°36'03 | 26°27 | 8°21 | 29°12 | 28°11 | 2°56 | 24°17 | 25°16 | 29° 9 | 19° 9 | 22°D24 | 23°37 | 13° 7 | 8°41 |
| T 14 | 5 29 31 | 21°37'01 | 8♁17 | 9°46 | 0♁24 | 28°53 | 3° 7 | 24°13 | 25°20 | 29°11 | 19° 8 | 22°25 | 23°33 | 13°13 | 8°49 |
| F 15 | 5 33 27 | 22°38'00 | 20° 5 | 11°10 | 1°37 | 29°35 | 3°17 | 24° 9 | 25°23 | 29°14 | 19° 6 | 22°R26 | 23°30 | 13°20 | 8°56 |
| S 16 | 5 37 24 | 23°39'00 | 1♁56 | 12°32 | 2°49 | 0♁16 | 3°28 | 24° 5 | 25°26 | 29°16 | 19° 5 | 22°25 | 23°27 | 13°27 | 9° 3 |
| S 17 | 5 41 20 | 24°40'01 | 13°55 | 13°52 | 4° 1 | 0°58 | 3°38 | 24° 2 | 25°30 | 29°18 | 19° 4 | 22°23 | 23°24 | 13°33 | 9°10 |
| M18 | 5 45 17 | 25°41'03 | 26° 8 | 15°10 | 5°13 | 1°40 | 3°48 | 23°58 | 25°33 | 29°20 | 19° 3 | 22°19 | 23°21 | 13°40 | 9°17 |
| T 19 | 5 49 14 | 26°42'06 | 8♁38 | 16°26 | 6°25 | 2°21 | 3°59 | 23°54 | 25°36 | 29°23 | 19° 2 | 22°12 | 23°18 | 13°47 | 9°24 |
| W20 | 5 53 10 | 27°43'10 | 21°28 | 17°39 | 7°38 | 3° 3 | 4° 9 | 23°50 | 25°40 | 29°25 | 19° 1 | 22° 3 | 23°14 | 13°53 | 9°30 |
| T 21 | 5 57 7 | 28°44'15 | 4♁41 | 18°49 | 8°50 | 3°45 | 4°19 | 23°47 | 25°43 | 29°27 | 19° 0 | 21°54 | 23°11 | 14° 0 | 9°37 |
| F 22 | 6 1 3 | 29°45'21 | 18°14 | 19°54 | 10° 2 | 4°27 | 4°29 | 23°43 | 25°46 | 29°30 | 18°58 | 21°44 | 23° 8 | 14° 7 | 9°44 |
| S 23 | 6 5 0 | 0♁46'27 | 2♁ 7 | 20°56 | 11°13 | 5° 9 | 4°38 | 23°40 | 25°50 | 29°32 | 18°57 | 21°36 | 23° 5 | 14°13 | 9°50 |
| S 24 | 6 8 56 | 1°47'34 | 16°13 | 21°52 | 12°25 | 5°51 | 4°48 | 23°37 | 25°53 | 29°34 | 18°56 | 21°29 | 23° 2 | 14°20 | 9°57 |
| M25 | 6 12 53 | 2°48'42 | 0♁30 | 22°42 | 13°37 | 6°33 | 4°58 | 23°33 | 25°56 | 29°36 | 18°55 | 21°25 | 22°58 | 14°27 | 10° 3 |
| T 26 | 6 16 49 | 3°49'49 | 14°51 | 23°26 | 14°49 | 7°15 | 5° 7 | 23°30 | 25°59 | 29°39 | 18°54 | 21°D23 | 22°55 | 14°33 | 10°10 |
| W27 | 6 20 46 | 4°50'57 | 29°12 | 24° 2 | 16° 0 | 7°57 | 5°17 | 23°27 | 26° 2 | 29°41 | 18°53 | 21°23 | 22°52 | 14°40 | 10°16 |
| T 28 | 6 24 43 | 5°52'05 | 13♁30 | 24°29 | 17°12 | 8°39 | 5°26 | 23°24 | 26° 5 | 29°43 | 18°52 | 21°24 | 22°49 | 14°47 | 10°22 |
| F 29 | 6 28 39 | 6°53'13 | 27°42 | 24°47 | 18°23 | 9°21 | 5°35 | 23°21 | 26° 8 | 29°45 | 18°51 | 21°25 | 22°46 | 14°53 | 10°29 |
| S 30 | 6 32 36 | 7°54'21 | 11♁46 | 24°R55 | 19°34 | 10° 3 | 5°44 | 23°19 | 26°12 | 29°48 | 18°49 | 21°R25 | 22°43 | 15° 0 | 10°35 |
| S 31 | 6 36 32 | 8♁55'28 | 25♁42 | 24♁52 | 20♁46 | 10♁45 | 5♁53 | 23♁16 | 26♁15 | 29♁50 | 18♁48 | 21♁24 | 22♁39 | 15♁ 6 | 10♁41 |

Delta T = 313.33 sec.

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