

SWISS EPHEMERIS for the year 2033

JANUARY 2033

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|-----|---------|----------|-------|-------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|
| S 1 | 6 43 51 | 10♁52'24 | 5♁13 | 3♁52 | 27♁54 | 8♁38 | 6♁40 | 3°R 7 | 29°R10 | 15°V 4 | 13♁49 | 27°R37 | 26♁46 | 16♁16 | 21°R32 |
| S 2 | 6 47 48 | 11°53'35 | 19°31 | 5°26 | 28°58 | 9°14 | 6°53 | 3♁ 2 | 29°II 7 | 15° 5 | 13°51 | 27♁25 | 26°43 | 16°23 | 21♁30 |
| M 3 | 6 51 44 | 12°54'46 | 4♁ 2 | 7° 1 | 0♁ 1 | 9°50 | 7° 7 | 2°57 | 29° 5 | 15° 5 | 13°52 | 27°13 | 26°40 | 16°30 | 21°28 |
| T 4 | 6 55 41 | 13°55'57 | 18°39 | 8°35 | 1° 4 | 10°26 | 7°20 | 2°52 | 29° 2 | 15° 5 | 13°54 | 27° 3 | 26°37 | 16°36 | 21°27 |
| W 5 | 6 59 37 | 14°57'07 | 3♁15 | 10°11 | 2° 6 | 11° 2 | 7°34 | 2°47 | 29° 0 | 15° 6 | 13°56 | 26°55 | 26°33 | 16°43 | 21°25 |
| T 6 | 7 3 34 | 15°58'18 | 17°44 | 11°46 | 3° 9 | 11°38 | 7°48 | 2°42 | 28°57 | 15° 6 | 13°57 | 26°49 | 26°30 | 16°50 | 21°24 |
| F 7 | 7 7 31 | 16°59'28 | 2°V 1 | 13°22 | 4°10 | 12°14 | 8° 2 | 2°38 | 28°55 | 15° 6 | 13°59 | 26°47 | 26°27 | 16°56 | 21°22 |
| S 8 | 7 11 27 | 18° 0'37 | 16° 5 | 14°58 | 5°12 | 12°49 | 8°15 | 2°33 | 28°52 | 15° 7 | 14° 1 | 26°D46 | 26°24 | 17° 3 | 21°21 |
| S 9 | 7 15 24 | 19° 1'46 | 29°56 | 16°35 | 6°13 | 13°25 | 8°29 | 2°28 | 28°50 | 15° 7 | 14° 2 | 26°R46 | 26°21 | 17°10 | 21°19 |
| M10 | 7 19 20 | 20° 2'55 | 13♁33 | 18°12 | 7°13 | 14° 1 | 8°43 | 2°24 | 28°48 | 15° 8 | 14° 4 | 26°46 | 26°18 | 17°16 | 21°18 |
| T11 | 7 23 17 | 21° 4'03 | 26°58 | 19°50 | 8°13 | 14°36 | 8°57 | 2°19 | 28°45 | 15° 8 | 14° 6 | 26°43 | 26°14 | 17°23 | 21°17 |
| W12 | 7 27 13 | 22° 5'10 | 10♁13 | 21°28 | 9°13 | 15°12 | 9°11 | 2°15 | 28°43 | 15° 9 | 14° 7 | 26°37 | 26°11 | 17°30 | 21°16 |
| T13 | 7 31 10 | 23° 6'17 | 23°16 | 23° 6 | 10°12 | 15°47 | 9°25 | 2°10 | 28°41 | 15°10 | 14° 9 | 26°29 | 26° 8 | 17°36 | 21°15 |
| F14 | 7 35 6 | 24° 7'24 | 6♁ 9 | 24°45 | 11°11 | 16°23 | 9°39 | 2° 6 | 28°38 | 15°10 | 14°11 | 26°17 | 26° 5 | 17°43 | 21°14 |
| S15 | 7 39 3 | 25° 8'30 | 18°51 | 26°25 | 12° 9 | 16°58 | 9°53 | 2° 1 | 28°36 | 15°11 | 14°13 | 26° 3 | 26° 2 | 17°50 | 21°13 |
| S16 | 7 43 0 | 26° 9'36 | 1♁21 | 28° 5 | 13° 6 | 17°34 | 10° 7 | 1°57 | 28°34 | 15°12 | 14°14 | 25°49 | 25°58 | 17°56 | 21°12 |
| M17 | 7 46 56 | 27°10'41 | 13°40 | 29°45 | 14° 3 | 18° 9 | 10°21 | 1°53 | 28°32 | 15°12 | 14°16 | 25°35 | 25°55 | 18° 3 | 21°11 |
| T18 | 7 50 53 | 28°11'45 | 25°48 | 1♁26 | 15° 0 | 18°44 | 10°35 | 1°49 | 28°30 | 15°13 | 14°18 | 25°22 | 25°52 | 18°10 | 21°10 |
| W19 | 7 54 49 | 29°12'50 | 7♁46 | 3° 8 | 15°56 | 19°20 | 10°49 | 1°45 | 28°28 | 15°14 | 14°20 | 25°12 | 25°49 | 18°16 | 21°10 |
| T20 | 7 58 46 | 0♁13'53 | 19°37 | 4°49 | 16°51 | 19°55 | 11° 3 | 1°40 | 28°25 | 15°15 | 14°21 | 25° 4 | 25°46 | 18°23 | 21° 9 |
| F21 | 8 2 42 | 1°14'57 | 1♁25 | 6°32 | 17°46 | 20°30 | 11°18 | 1°36 | 28°23 | 15°16 | 14°23 | 25° 0 | 25°43 | 18°30 | 21° 8 |
| S22 | 8 6 39 | 2°16'00 | 13°13 | 8°15 | 18°40 | 21° 5 | 11°32 | 1°33 | 28°21 | 15°17 | 14°25 | 24°58 | 25°39 | 18°36 | 21° 8 |
| S23 | 8 10 35 | 3°17'02 | 25° 7 | 9°58 | 19°33 | 21°40 | 11°46 | 1°29 | 28°19 | 15°18 | 14°27 | 24°D58 | 25°36 | 18°43 | 21° 7 |
| M24 | 8 14 32 | 4°18'04 | 7♁12 | 11°41 | 20°26 | 22°15 | 12° 0 | 1°25 | 28°17 | 15°19 | 14°29 | 24°R58 | 25°33 | 18°50 | 21° 7 |
| T25 | 8 18 29 | 5°19'06 | 19°34 | 13°25 | 21°17 | 22°50 | 12°14 | 1°21 | 28°16 | 15°20 | 14°30 | 24°57 | 25°30 | 18°56 | 21° 7 |
| W26 | 8 22 25 | 6°20'07 | 2♁17 | 15° 9 | 22° 9 | 23°25 | 12°29 | 1°18 | 28°14 | 15°21 | 14°32 | 24°54 | 25°27 | 19° 3 | 21° 6 |
| T27 | 8 26 22 | 7°21'08 | 15°27 | 16°53 | 22°59 | 24° 0 | 12°43 | 1°14 | 28°12 | 15°22 | 14°34 | 24°49 | 25°24 | 19°10 | 21° 6 |
| F28 | 8 30 18 | 8°22'08 | 29° 5 | 18°37 | 23°48 | 24°34 | 12°57 | 1°11 | 28°10 | 15°23 | 14°36 | 24°42 | 25°20 | 19°17 | 21° 6 |
| S29 | 8 34 15 | 9°23'07 | 13♁12 | 20°22 | 24°37 | 25° 9 | 13°11 | 1° 7 | 28° 8 | 15°24 | 14°38 | 24°32 | 25°17 | 19°23 | 21°D 6 |
| S30 | 8 38 11 | 10°24'05 | 27°44 | 22° 5 | 25°25 | 25°44 | 13°26 | 1° 4 | 28° 7 | 15°25 | 14°39 | 24°20 | 25°14 | 19°30 | 21° 6 |
| M31 | 8 42 8 | 11♁25'03 | 12♁35 | 23♁49 | 26♁12 | 26♁18 | 13♁40 | 1♁ 1 | 28°II 5 | 15°V26 | 14♁41 | 24♁ 9 | 25♁11 | 19♁37 | 21°R 6 |

Delta T = 92.04 sec.

FEBRUARY 2033

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|-----|----------|----------|--------|--------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|
| T 1 | 8 46 4 | 12♁26'00 | 27♁36 | 25♁31 | 26♁58 | 26♁53 | 13♁54 | 0°R58 | 28°R 3 | 15°V27 | 14♁43 | 23°R58 | 25♁ 8 | 19♁43 | 21°R 6 |
| W 2 | 8 50 1 | 13°26'55 | 12♁38 | 27°13 | 27°42 | 27°27 | 14° 9 | 0♁55 | 28°II 2 | 15°29 | 14°45 | 23♁50 | 25° 4 | 19°50 | 21° 7 |
| T 3 | 8 53 58 | 14°27'49 | 27°30 | 28°54 | 28°26 | 28° 2 | 14°23 | 0°52 | 28° 0 | 15°30 | 14°47 | 23°45 | 25° 1 | 19°57 | 21° 7 |
| F 4 | 8 57 54 | 15°28'42 | 12°V 8 | 0♁32 | 29° 9 | 28°36 | 14°37 | 0°49 | 27°59 | 15°31 | 14°49 | 23°43 | 24°58 | 20° 3 | 21° 7 |
| S 5 | 9 1 51 | 16°29'33 | 26°25 | 2° 9 | 29°51 | 29°10 | 14°52 | 0°46 | 27°57 | 15°33 | 14°50 | 23°D42 | 24°55 | 20°10 | 21° 8 |
| S 6 | 9 5 47 | 17°30'23 | 10♁21 | 3°44 | 0°V31 | 29°44 | 15° 6 | 0°44 | 27°56 | 15°34 | 14°52 | 23°43 | 24°52 | 20°17 | 21° 8 |
| M 7 | 9 9 44 | 18°31'11 | 23°57 | 5°15 | 1°10 | 0♁18 | 15°20 | 0°41 | 27°54 | 15°35 | 14°54 | 23°R43 | 24°49 | 20°23 | 21° 9 |
| T 8 | 9 13 40 | 19°31'58 | 7♁14 | 6°42 | 1°48 | 0°52 | 15°34 | 0°39 | 27°53 | 15°37 | 14°56 | 23°41 | 24°45 | 20°30 | 21° 9 |
| W 9 | 9 17 37 | 20°32'44 | 20°15 | 8° 6 | 2°25 | 1°26 | 15°49 | 0°36 | 27°52 | 15°38 | 14°58 | 23°37 | 24°42 | 20°37 | 21°10 |
| T10 | 9 21 33 | 21°33'28 | 3♁ 1 | 9°24 | 3° 0 | 2° 0 | 16° 3 | 0°34 | 27°50 | 15°40 | 15° 0 | 23°31 | 24°39 | 20°43 | 21°11 |
| F11 | 9 25 30 | 22°34'10 | 15°36 | 10°37 | 3°34 | 2°34 | 16°17 | 0°32 | 27°49 | 15°41 | 15° 1 | 23°22 | 24°36 | 20°50 | 21°11 |
| S12 | 9 29 27 | 23°34'51 | 28° 0 | 11°43 | 4° 6 | 3° 7 | 16°32 | 0°30 | 27°48 | 15°43 | 15° 3 | 23°11 | 24°33 | 20°57 | 21°12 |
| S13 | 9 33 23 | 24°35'30 | 10♁15 | 12°43 | 4°37 | 3°41 | 16°46 | 0°28 | 27°47 | 15°44 | 15° 5 | 22°59 | 24°30 | 21° 3 | 21°13 |
| M14 | 9 37 20 | 25°36'08 | 22°22 | 13°34 | 5° 6 | 4°14 | 17° 0 | 0°26 | 27°46 | 15°46 | 15° 7 | 22°48 | 24°26 | 21°10 | 21°14 |
| T15 | 9 41 16 | 26°36'45 | 4♁21 | 14°17 | 5°34 | 4°48 | 17°14 | 0°25 | 27°45 | 15°48 | 15° 9 | 22°38 | 24°23 | 21°17 | 21°15 |
| W16 | 9 45 13 | 27°37'20 | 16°14 | 14°51 | 6° 0 | 5°21 | 17°28 | 0°23 | 27°44 | 15°49 | 15°10 | 22°30 | 24°20 | 21°23 | 21°16 |
| T17 | 9 49 9 | 28°37'53 | 28° 3 | 15°16 | 6°23 | 5°54 | 17°43 | 0°22 | 27°43 | 15°51 | 15°12 | 22°24 | 24°17 | 21°30 | 21°17 |
| F18 | 9 53 6 | 29°38'25 | 9♁51 | 15°30 | 6°46 | 6°27 | 17°57 | 0°20 | 27°42 | 15°53 | 15°14 | 22°21 | 24°14 | 21°37 | 21°19 |
| S19 | 9 57 2 | 0♁38'56 | 21°40 | 15°R34 | 7° 6 | 7° 1 | 18°11 | 0°19 | 27°41 | 15°54 | 15°16 | 22°D20 | 24°10 | 21°43 | 21°20 |
| S20 | 10 0 59 | 1°39'26 | 3♁34 | 15°28 | 7°24 | 7°33 | 18°25 | 0°18 | 27°41 | 15°56 | 15°18 | 22°20 | 24° 7 | 21°50 | 21°21 |
| M21 | 10 4 56 | 2°39'54 | 15°38 | 15°11 | 7°40 | 8° 6 | 18°39 | 0°17 | 27°40 | 15°58 | 15°19 | 22°22 | 24° 4 | 21°57 | 21°23 |
| T22 | 10 8 52 | 3°40'21 | 27°57 | 14°45 | 7°54 | 8°39 | 18°53 | 0°16 | 27°39 | 16° 0 | 15°21 | 22°R23 | 24° 1 | 22° 3 | 21°24 |
| W23 | 10 12 49 | 4°40'46 | 10♁36 | 14°10 | 8° 6 | 9°12 | 19° 7 | 0°15 | 27°39 | 16° 1 | 15°23 | 22°23 | 23°58 | 22°10 | 21°26 |
| T24 | 10 16 45 | 5°41'10 | 23°40 | 13°27 | 8°16 | 9°44 | 19°21 | 0°14 | 27°38 | 16° 3 | 15°25 | 22°21 | 23°55 | 22°17 | 21°27 |
| F25 | 10 20 42 | 6°41'33 | 7♁12 | 12°36 | 8°23 | 10°17 | 19°35 | 0°14 | 27°38 | 16° 5 | 15°26 | 22°17 | 23°51 | 22°23 | 21°29 |
| S26 | 10 24 38 | 7°41'55 | 21°13 | 11°40 | 8°29 | 10°49 | 19°49 | 0°13 | 27°37 | 16° 7 | 15°28 | 22°12 | 23°48 | 22°30 | 21°31 |
| S27 | 10 28 35 | 8°42'15 | 5♁42 | 10°40 | 8°31 | 11°21 | 20° 3 | 0°13 | 27°37 | 16° 9 | 15°30 | 22° 5 | 23°45 | 22°37 | 21°32 |
| M28 | 10 32 31 | 9♁42'33 | 20♁35 | 9♁37 | 8°R32 | 11♁54 | 20♁17 | 0♁13 | 27°II37 | 16°V11 | 15♁31 | 21♁59 | 23♁42 | 22♁43 | 21♁34 |

Delta T = 92.18 sec.

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SWISS EPHEMERIS for the year 2033

MAY 2033

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ |
|------|----------|----------|-------|-------|-------|--------|------|------|-------|-------|--------|--------|-------|-------|-------|
| S 1 | 14 36 58 | 10♈56'55 | 6♐32 | 3♊22 | 29♋18 | 8♌44 | 2♈42 | 3♎21 | 28♏56 | 18♑26 | 16♒43 | 21°R11 | 20♓25 | 29♍36 | 24♎55 |
| M 2 | 14 40 54 | 11°55'11 | 20°35 | 5°25 | 29°55 | 9° 0 | 2°52 | 3°27 | 28°58 | 18°28 | 16°43 | 21♈ 8 | 20°22 | 29°43 | 24°59 |
| T 3 | 14 44 51 | 12°53'24 | 4♉12 | 7°30 | 0♐33 | 9°15 | 3° 1 | 3°33 | 29° 1 | 18°30 | 16°44 | 21° 5 | 20°18 | 29°49 | 25° 3 |
| W 4 | 14 48 47 | 13°51'36 | 17°24 | 9°36 | 1°13 | 9°30 | 3°10 | 3°39 | 29° 4 | 18°32 | 16°44 | 21° 2 | 20°15 | 29°56 | 25° 7 |
| T 5 | 14 52 44 | 14°49'46 | 0♑11 | 11°43 | 1°54 | 9°45 | 3°18 | 3°45 | 29° 7 | 18°34 | 16°44 | 21° 0 | 20°12 | 0♒ 3 | 25°11 |
| F 6 | 14 56 40 | 15°47'54 | 12°38 | 13°51 | 2°35 | 9°58 | 3°27 | 3°51 | 29° 9 | 18°36 | 16°45 | 21°D 0 | 20° 9 | 0° 9 | 25°16 |
| S 7 | 15 0 37 | 16°46'00 | 24°47 | 16° 1 | 3°18 | 10°12 | 3°35 | 3°57 | 29°12 | 18°38 | 16°45 | 21° 0 | 20° 6 | 0°16 | 25°20 |
| S 8 | 15 4 34 | 17°44'04 | 6♒45 | 18°11 | 4° 2 | 10°25 | 3°44 | 4° 3 | 29°15 | 18°40 | 16°45 | 21° 1 | 20° 3 | 0°23 | 25°24 |
| M 9 | 15 8 30 | 18°42'06 | 18°35 | 20°21 | 4°46 | 10°37 | 3°52 | 4° 9 | 29°18 | 18°42 | 16°45 | 21° 3 | 19°59 | 0°29 | 25°28 |
| T 10 | 15 12 27 | 19°40'06 | 0♓23 | 22°31 | 5°32 | 10°49 | 4° 0 | 4°16 | 29°21 | 18°44 | 16°46 | 21° 4 | 19°56 | 0°36 | 25°32 |
| W 11 | 15 16 23 | 20°38'04 | 12°13 | 24°42 | 6°18 | 11° 0 | 4° 8 | 4°22 | 29°24 | 18°46 | 16°46 | 21° 6 | 19°53 | 0°43 | 25°37 |
| T 12 | 15 20 20 | 21°36'01 | 24° 8 | 26°52 | 7° 5 | 11°10 | 4°16 | 4°28 | 29°27 | 18°48 | 16°46 | 21°R 6 | 19°50 | 0°49 | 25°41 |
| F 13 | 15 24 16 | 22°33'56 | 6♌11 | 29° 1 | 7°53 | 11°20 | 4°24 | 4°35 | 29°30 | 18°50 | 16°46 | 21° 5 | 19°47 | 0°56 | 25°45 |
| S 14 | 15 28 13 | 23°31'49 | 18°26 | 1♐10 | 8°42 | 11°30 | 4°31 | 4°41 | 29°33 | 18°52 | 16°46 | 21° 2 | 19°43 | 1° 3 | 25°49 |
| S 15 | 15 32 9 | 24°29'41 | 0♍53 | 3°17 | 9°31 | 11°38 | 4°38 | 4°48 | 29°36 | 18°54 | 16°46 | 20°58 | 19°40 | 1° 9 | 25°54 |
| M 16 | 15 36 6 | 25°27'32 | 13°34 | 5°23 | 10°21 | 11°46 | 4°46 | 4°54 | 29°39 | 18°56 | 16°46 | 20°53 | 19°37 | 1°16 | 25°58 |
| T 17 | 15 40 3 | 26°25'21 | 26°28 | 7°27 | 11°12 | 11°54 | 4°53 | 5° 1 | 29°42 | 18°58 | 16°46 | 20°47 | 19°34 | 1°23 | 26° 2 |
| W 18 | 15 43 59 | 27°23'09 | 9♁36 | 9°29 | 12° 3 | 12° 1 | 5° 0 | 5° 8 | 29°45 | 19° 0 | 16°R46 | 20°41 | 19°31 | 1°29 | 26° 6 |
| T 19 | 15 47 56 | 28°20'55 | 22°57 | 11°29 | 12°55 | 12° 7 | 5° 7 | 5°15 | 29°49 | 19° 2 | 16°46 | 20°36 | 19°28 | 1°36 | 26°11 |
| F 20 | 15 51 52 | 29°18'41 | 6♎30 | 13°27 | 13°48 | 12°12 | 5°13 | 5°21 | 29°52 | 19° 4 | 16°46 | 20°33 | 19°24 | 1°42 | 26°15 |
| S 21 | 15 55 49 | 0♐16'25 | 20°17 | 15°22 | 14°41 | 12°17 | 5°20 | 5°28 | 29°55 | 19° 5 | 16°46 | 20°31 | 19°21 | 1°49 | 26°19 |
| S 22 | 15 59 45 | 1°14'08 | 4♋15 | 17°14 | 15°35 | 12°21 | 5°26 | 5°35 | 29°58 | 19° 7 | 16°46 | 20°D30 | 19°18 | 1°56 | 26°23 |
| M 23 | 16 3 42 | 2°11'50 | 18°24 | 19° 4 | 16°30 | 12°24 | 5°32 | 5°42 | 0♑ 1 | 19° 9 | 16°46 | 20°31 | 19°15 | 2° 2 | 26°28 |
| T 24 | 16 7 38 | 3° 9'31 | 2♐43 | 20°51 | 17°24 | 12°27 | 5°38 | 5°49 | 0° 5 | 19°11 | 16°46 | 20°32 | 19°12 | 2° 9 | 26°32 |
| W 25 | 16 11 35 | 4° 7'11 | 17°10 | 22°35 | 18°20 | 12°29 | 5°44 | 5°56 | 0° 8 | 19°12 | 16°46 | 20°R33 | 19° 9 | 2°16 | 26°36 |
| T 26 | 16 15 31 | 5° 4'51 | 1♉41 | 24°16 | 19°16 | 12°30 | 5°50 | 6° 3 | 0°11 | 19°14 | 16°45 | 20°33 | 19° 5 | 2°22 | 26°40 |
| F 27 | 16 19 28 | 6° 2'29 | 16°11 | 25°54 | 20°12 | 12°R30 | 5°55 | 6°10 | 0°15 | 19°16 | 16°45 | 20°30 | 19° 2 | 2°29 | 26°44 |
| S 28 | 16 23 25 | 7° 0'06 | 0♐34 | 27°29 | 21° 9 | 12°30 | 6° 1 | 6°17 | 0°18 | 19°18 | 16°45 | 20°26 | 18°59 | 2°36 | 26°49 |
| S 29 | 16 27 21 | 7°57'42 | 14°46 | 29° 1 | 22° 6 | 12°29 | 6° 6 | 6°24 | 0°21 | 19°19 | 16°45 | 20°19 | 18°56 | 2°42 | 26°53 |
| M 30 | 16 31 18 | 8°55'17 | 28°41 | 0♑30 | 23° 4 | 12°27 | 6°11 | 6°32 | 0°25 | 19°21 | 16°44 | 20°12 | 18°53 | 2°49 | 26°57 |
| T 31 | 16 35 14 | 9♐52'51 | 12♑14 | 1♑55 | 24♑ 2 | 12♒24 | 6♈16 | 6♉39 | 0♊28 | 19♑22 | 16♒44 | 20♓ 4 | 18♓49 | 2♑56 | 27♒ 1 |

Delta T = 92.58 sec.

JUNE 2033

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ |
|------|----------|----------|-------|--------|-------|--------|-------|-------|------|-------|--------|--------|-------|------|-------|
| W 1 | 16 39 11 | 10♐50'23 | 25♑25 | 3♊18 | 25♑ 0 | 12°R21 | 6♈21 | 6♉46 | 0♑32 | 19♑24 | 16°R44 | 19°R56 | 18♓46 | 3♓ 2 | 27♒ 5 |
| T 2 | 16 43 7 | 11°47'54 | 8♑13 | 4°37 | 25°59 | 12♒17 | 6°25 | 6°54 | 0°35 | 19°26 | 16♒43 | 19♓50 | 18°43 | 3° 9 | 27°10 |
| F 3 | 16 47 4 | 12°45'24 | 20°41 | 5°53 | 26°58 | 12°12 | 6°30 | 7° 1 | 0°39 | 19°27 | 16°43 | 19°45 | 18°40 | 3°16 | 27°14 |
| S 4 | 16 51 1 | 13°42'53 | 2♐52 | 7° 5 | 27°57 | 12° 6 | 6°34 | 7° 8 | 0°42 | 19°29 | 16°42 | 19°43 | 18°37 | 3°22 | 27°18 |
| S 5 | 16 54 57 | 14°40'20 | 14°50 | 8°14 | 28°57 | 12° 0 | 6°38 | 7°16 | 0°45 | 19°30 | 16°42 | 19°D42 | 18°34 | 3°29 | 27°22 |
| M 6 | 16 58 54 | 15°37'46 | 26°41 | 9°20 | 29°57 | 11°53 | 6°42 | 7°23 | 0°49 | 19°32 | 16°41 | 19°42 | 18°30 | 3°36 | 27°26 |
| T 7 | 17 2 50 | 16°35'11 | 8♓29 | 10°22 | 0♒58 | 11°45 | 6°45 | 7°31 | 0°52 | 19°33 | 16°41 | 19°43 | 18°27 | 3°42 | 27°30 |
| W 8 | 17 6 47 | 17°32'35 | 20°21 | 11°21 | 1°58 | 11°36 | 6°49 | 7°38 | 0°56 | 19°34 | 16°40 | 19°R44 | 18°24 | 3°49 | 27°34 |
| T 9 | 17 10 43 | 18°29'58 | 2♌20 | 12°16 | 2°59 | 11°27 | 6°52 | 7°46 | 0°59 | 19°36 | 16°40 | 19°43 | 18°21 | 3°55 | 27°38 |
| F 10 | 17 14 40 | 19°27'19 | 14°31 | 13° 7 | 4° 1 | 11°17 | 6°55 | 7°53 | 1° 3 | 19°37 | 16°39 | 19°40 | 18°18 | 4° 2 | 27°42 |
| S 11 | 17 18 36 | 20°24'40 | 26°57 | 13°54 | 5° 2 | 11° 6 | 6°58 | 8° 1 | 1° 7 | 19°38 | 16°39 | 19°35 | 18°15 | 4° 9 | 27°46 |
| S 12 | 17 22 33 | 21°22'00 | 9♍40 | 14°37 | 6° 4 | 10°55 | 7° 1 | 8° 8 | 1°10 | 19°40 | 16°38 | 19°27 | 18°11 | 4°15 | 27°50 |
| M 13 | 17 26 30 | 22°19'19 | 22°40 | 15°17 | 7° 6 | 10°43 | 7° 3 | 8°16 | 1°14 | 19°41 | 16°37 | 19°18 | 18° 8 | 4°22 | 27°54 |
| T 14 | 17 30 26 | 23°16'38 | 5♁57 | 15°52 | 8° 9 | 10°30 | 7° 6 | 8°23 | 1°17 | 19°42 | 16°37 | 19° 8 | 18° 5 | 4°29 | 27°58 |
| W 15 | 17 34 23 | 24°13'56 | 19°29 | 16°23 | 9°11 | 10°17 | 7° 8 | 8°31 | 1°21 | 19°44 | 16°36 | 18°57 | 18° 2 | 4°35 | 28° 2 |
| T 16 | 17 38 19 | 25°11'13 | 3♌13 | 16°50 | 10°14 | 10° 3 | 7°10 | 8°39 | 1°24 | 19°45 | 16°35 | 18°48 | 17°59 | 4°42 | 28° 6 |
| F 17 | 17 42 16 | 26° 8'30 | 17° 6 | 17°12 | 11°17 | 9°49 | 7°12 | 8°46 | 1°28 | 19°46 | 16°35 | 18°41 | 17°55 | 4°49 | 28°10 |
| S 18 | 17 46 12 | 27° 5'47 | 1♋ 6 | 17°30 | 12°21 | 9°34 | 7°13 | 8°54 | 1°31 | 19°47 | 16°34 | 18°36 | 17°52 | 4°55 | 28°14 |
| S 19 | 17 50 9 | 28° 3'03 | 15°10 | 17°43 | 13°24 | 9°19 | 7°15 | 9° 2 | 1°35 | 19°48 | 16°33 | 18°33 | 17°49 | 5° 2 | 28°18 |
| M 20 | 17 54 5 | 29° 0'19 | 29°17 | 17°52 | 14°28 | 9° 3 | 7°16 | 9°10 | 1°39 | 19°49 | 16°32 | 18°D33 | 17°46 | 5° 9 | 28°22 |
| T 21 | 17 58 2 | 29°57'35 | 13♑26 | 17°R56 | 15°32 | 8°47 | 7°17 | 9°17 | 1°42 | 19°50 | 16°31 | 18°R33 | 17°43 | 5°15 | 28°25 |
| W 22 | 18 1 59 | 0♑54'51 | 27°35 | 17°56 | 16°37 | 8°30 | 7°18 | 9°25 | 1°46 | 19°51 | 16°31 | 18°33 | 17°40 | 5°22 | 28°29 |
| T 23 | 18 5 55 | 1°52'06 | 11♒43 | 17°51 | 17°41 | 8°13 | 7°19 | 9°33 | 1°49 | 19°52 | 16°30 | 18°31 | 17°36 | 5°29 | 28°33 |
| F 24 | 18 9 52 | 2°49'22 | 25°48 | 17°41 | 18°46 | 7°55 | 7°19 | 9°41 | 1°53 | 19°53 | 16°29 | 18°27 | 17°33 | 5°35 | 28°37 |
| S 25 | 18 13 48 | 3°46'37 | 9♐47 | 17°28 | 19°51 | 7°38 | 7°19 | 9°48 | 1°57 | 19°54 | 16°28 | 18°20 | 17°30 | 5°42 | 28°40 |
| S 26 | 18 17 45 | 4°43'53 | 23°36 | 17°10 | 20°56 | 7°20 | 7°R19 | 9°56 | 2° 0 | 19°55 | 16°27 | 18°10 | 17°27 | 5°49 | 28°44 |
| M 27 | 18 21 41 | 5°41'08 | 7♑12 | 16°49 | 22° 1 | 7° 1 | 7°19 | 10° 4 | 2° 4 | 19°56 | 16°26 | 17°59 | 17°24 | 5°55 | 28°48 |
| T 28 | 18 25 38 | 6°38'22 | 20°31 | 16°24 | 23° 6 | 6°43 | 7°19 | 10°12 | 2° 7 | 19°57 | 16°25 | 17°47 | 17°21 | 6° 2 | 28°51 |
| W 29 | 18 29 34 | 7°35'37 | 3♑32 | 15°56 | 24°12 | 6°25 | 7°18 | 10°20 | 2°11 | 19°58 | 16°24 | 17°35 | 17°17 | 6° 8 | 28°55 |
| T 30 | 18 33 31 | 8♑32'51 | 16♑14 | 15♑25 | 25♒17 | 6♓ 6 | 7♈18 | 10♉27 | 2♊15 | 19♑58 | 16♒23 | 17♓25 | 17♓14 | 6♓15 | 28♒58 |

Delta T = 92.72 sec.

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SWISS EPHEMERIS for the year 2033

JULY 2033

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ |
|------|----------|-----------------------|------------------------|---------------------|-----------------------|---------------------|--------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|
| F 1 | 18 37 28 | 9 ^h 30'04" | 28 ^h 03'39" | 14°R52 | 26 ^h 8'23" | 5°R48 | 7°R17 | 10 ^h 35' | 2 ^h 18' | 19 ^h 59' | 16°R22 | 17°R17 | 17 ^h 11' | 6 ^h 22' | 29 ^h 2' |
| S 2 | 18 41 24 | 10°27'18" | 10 ^h 48' | 14 ^h 17' | 27°29' | 5 ^h 29' | 7 ^h 16' | 10°43' | 2°22' | 20° 0' | 16 ^h 21' | 17 ^h 12' | 17° 8' | 6°28' | 29° 5' |
| S 3 | 18 45 21 | 11°24'31" | 22°45' | 13°41' | 28°35' | 5°11' | 7°14' | 10°51' | 2°25' | 20° 0' | 16°20' | 17° 9' | 17° 5' | 6°35' | 29° 9' |
| M 4 | 18 49 17 | 12°21'43" | 4 ^h 25' | 13° 4' | 29°42' | 4°53' | 7°13' | 10°59' | 2°29' | 20° 1' | 16°19' | 17° 8' | 17° 1' | 6°42' | 29°12' |
| T 5 | 18 53 14 | 13°18'55" | 16°24' | 12°27' | 0 ^h 48' | 4°35' | 7°11' | 11° 6' | 2°32' | 20° 2' | 16°18' | 17° 8' | 16°58' | 6°48' | 29°15' |
| W 6 | 18 57 10 | 14°16'08" | 28°16' | 11°51' | 1°55' | 4°17' | 7° 9' | 11°14' | 2°36' | 20° 2' | 16°17' | 17° 8' | 16°55' | 6°55' | 29°19' |
| T 7 | 19 1 7 | 15°13'19" | 10 ^h 11' | 11°17' | 3° 1' | 3°59' | 7° 7' | 11°22' | 2°39' | 20° 3' | 16°16' | 17° 6' | 16°52' | 7° 2' | 29°22' |
| F 8 | 19 5 3 | 16°10'31" | 22°33' | 10°44' | 4° 8' | 3°42' | 7° 5' | 11°30' | 2°43' | 20° 3' | 16°15' | 17° 3' | 16°49' | 7° 8' | 29°25' |
| S 9 | 19 9 0 | 17° 7'43" | 5 ^h 7' | 10°14' | 5°15' | 3°25' | 7° 3' | 11°38' | 2°46' | 20° 4' | 16°13' | 16°57' | 16°46' | 7°15' | 29°29' |
| S 10 | 19 12 57 | 18° 4'54" | 18° 0' | 9°47' | 6°23' | 3° 9' | 7° 0' | 11°45' | 2°50' | 20° 4' | 16°12' | 16°49' | 16°42' | 7°22' | 29°32' |
| M11 | 19 16 53 | 19° 2'06" | 1 ^h 31' | 9°23' | 7°30' | 2°53' | 6°57' | 11°53' | 2°53' | 20° 5' | 16°11' | 16°38' | 16°39' | 7°28' | 29°35' |
| T 12 | 19 20 50 | 19°59'18" | 14°54' | 9° 3' | 8°37' | 2°37' | 6°54' | 12° 1' | 2°57' | 20° 5' | 16°10' | 16°26' | 16°36' | 7°35' | 29°38' |
| W13 | 19 24 46 | 20°56'30" | 28°50' | 8°48' | 9°45' | 2°22' | 6°51' | 12° 9' | 3° 0' | 20° 5' | 16° 9' | 16°15' | 16°33' | 7°42' | 29°41' |
| T 14 | 19 28 43 | 21°53'42" | 13 ^h 00' | 8°37' | 10°52' | 2° 8' | 6°48' | 12°16' | 3° 4' | 20° 6' | 16° 8' | 16° 4' | 16°30' | 7°48' | 29°44' |
| F 15 | 19 32 39 | 22°50'54" | 27°18' | 8°32' | 12° 0' | 1°54' | 6°44' | 12°24' | 3° 7' | 20° 6' | 16° 6' | 15°56' | 16°27' | 7°55' | 29°47' |
| S 16 | 19 36 36 | 23°48'07" | 11 ^h 39' | 8°D31 | 13° 8' | 1°41' | 6°41' | 12°32' | 3°11' | 20° 6' | 16° 5' | 15°50' | 16°23' | 8° 1' | 29°50' |
| S 17 | 19 40 32 | 24°45'21" | 26° 0' | 8°36' | 14°16' | 1°28' | 6°37' | 12°40' | 3°14' | 20° 7' | 16° 4' | 15°47' | 16°20' | 8° 8' | 29°53' |
| M18 | 19 44 29 | 25°42'35" | 10 ^h 16' | 8°46' | 15°24' | 1°16' | 6°33' | 12°47' | 3°18' | 20° 7' | 16° 3' | 15°46' | 16°17' | 8°15' | 29°56' |
| T 19 | 19 48 26 | 26°39'50" | 24°25' | 9° 2' | 16°33' | 1° 5' | 6°29' | 12°55' | 3°21' | 20° 7' | 16° 1' | 15°46' | 16°14' | 8°21' | 29°58' |
| W20 | 19 52 22 | 27°37'05" | 8 ^h 26' | 9°24' | 17°41' | 0°54' | 6°24' | 13° 3' | 3°24' | 20° 7' | 16° 0' | 15°46' | 16°11' | 8°28' | 0 ^h 1' |
| T 21 | 19 56 19 | 28°34'22" | 22°20' | 9°51' | 18°50' | 0°44' | 6°20' | 13°10' | 3°28' | 20° 7' | 15°59' | 15°44' | 16° 7' | 8°35' | 0° 4' |
| F 22 | 20 0 15 | 29°31'39" | 6 ^h 11' | 10°24' | 19°58' | 0°35' | 6°15' | 13°18' | 3°31' | 20° 7' | 15°58' | 15°40' | 16° 4' | 8°41' | 0° 7' |
| S 23 | 20 4 12 | 0 ^h 28'57" | 19°40' | 11° 2' | 21° 7' | 0°27' | 6°10' | 13°25' | 3°34' | 20°R 7' | 15°56' | 15°33' | 16° 1' | 8°48' | 0° 9' |
| S 24 | 20 8 8 | 1°26'16" | 3 ^h 58' | 11°46' | 22°16' | 0°19' | 6° 5' | 13°33' | 3°38' | 20° 7' | 15°55' | 15°24' | 15°58' | 8°55' | 0°12' |
| M25 | 20 12 5 | 2°23'36" | 16°18' | 12°36' | 23°25' | 0°12' | 6° 0' | 13°41' | 3°41' | 20° 7' | 15°54' | 15°12' | 15°55' | 9° 1' | 0°14' |
| T 26 | 20 16 1 | 3°20'56" | 29°17' | 13°31' | 24°34' | 0° 6' | 5°54' | 13°48' | 3°44' | 20° 7' | 15°52' | 15° 1' | 15°52' | 9° 8' | 0°17' |
| W27 | 20 19 58 | 4°18'17" | 12 ^h 02' | 14°31' | 25°43' | 0° 1' | 5°49' | 13°56' | 3°47' | 20° 7' | 15°51' | 14°49' | 15°48' | 9°15' | 0°19' |
| T 28 | 20 23 55 | 5°15'39" | 24°32' | 15°37' | 26°52' | 29 ^h 57' | 5°43' | 14° 3' | 3°50' | 20° 7' | 15°50' | 14°39' | 15°45' | 9°21' | 0°21' |
| F 29 | 20 27 51 | 6°13'01" | 6 ^h 48' | 16°48' | 28° 1' | 29°53' | 5°37' | 14°11' | 3°54' | 20° 7' | 15°48' | 14°31' | 15°42' | 9°28' | 0°24' |
| S 30 | 20 31 48 | 7°10'24" | 18°52' | 18° 4' | 29°11' | 29°50' | 5°31' | 14°18' | 3°57' | 20° 7' | 15°47' | 14°25' | 15°39' | 9°35' | 0°26' |
| S 31 | 20 35 44 | 8 ^h 07'47" | 0 ^h 46' | 19 ^h 25' | 0 ^h 20' | 29 ^h 49' | 5 ^h 25' | 14 ^h 25' | 4 ^h 00' | 20 ^h 06' | 15 ^h 46' | 14 ^h 22' | 15 ^h 36' | 9 ^h 41' | 0 ^h 28' |

Delta T = 92.86 sec.

AUGUST 2033

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♃ | ♄ |
|------|----------|-----------------------|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|
| M 1 | 20 39 41 | 9 ^h 05'11" | 12 ^h 23' | 20 ^h 50' | 1 ^h 30' | 29°R48 | 5°R19 | 14 ^h 33' | 4 ^h 3' | 20°R 6' | 15°R44 | 14°D21 | 15 ^h 33' | 9 ^h 48' | 0 ^h 30' |
| T 2 | 20 43 37 | 10° 2'35" | 24°22' | 22°21' | 2°40' | 29°D48 | 5 ^h 13' | 14°40' | 4° 6' | 20°Y 6' | 15 ^h 43' | 14 ^h 22' | 15°29' | 9°54' | 0°33' |
| W 3 | 20 47 34 | 11° 0'01" | 6 ^h 13' | 23°55' | 3°49' | 29 ^h 48' | 5° 6' | 14°47' | 4° 9' | 20° 5' | 15°42' | 14°R22 | 15°26' | 10° 1' | 0°35' |
| T 4 | 20 51 30 | 11°57'26" | 18°14' | 25°34' | 4°59' | 29°50' | 5° 0' | 14°55' | 4°12' | 20° 5' | 15°40' | 14°22' | 15°23' | 10° 8' | 0°37' |
| F 5 | 20 55 27 | 12°54'53" | 0 ^h 30' | 27°17' | 6° 9' | 29°52' | 4°53' | 15° 2' | 4°15' | 20° 5' | 15°39' | 14°21' | 15°20' | 10°14' | 0°39' |
| S 6 | 20 59 24 | 13°52'20" | 13° 5' | 29° 3' | 7°19' | 29°56' | 4°46' | 15° 9' | 4°18' | 20° 4' | 15°38' | 14°17' | 15°17' | 10°21' | 0°40' |
| S 7 | 21 3 20 | 14°49'48" | 26° 4' | 0 ^h 53' | 8°29' | 29°59' | 4°40' | 15°16' | 4°21' | 20° 4' | 15°36' | 14°11' | 15°13' | 10°28' | 0°42' |
| M 8 | 21 7 17 | 15°47'17" | 9 ^h 28' | 2°45' | 9°40' | 0 ^h 5' | 4°33' | 15°23' | 4°24' | 20° 3' | 15°35' | 14° 3' | 15°10' | 10°34' | 0°44' |
| T 9 | 21 11 13 | 16°44'47" | 23°17' | 4°40' | 10°50' | 0°11' | 4°25' | 15°30' | 4°27' | 20° 3' | 15°33' | 13°55' | 15° 7' | 10°41' | 0°46' |
| W10 | 21 15 10 | 17°42'18" | 7 ^h 30' | 6°37' | 12° 0' | 0°17' | 4°18' | 15°38' | 4°30' | 20° 2' | 15°32' | 13°46' | 15° 4' | 10°48' | 0°47' |
| T 11 | 21 19 6 | 18°39'49" | 22° 0' | 8°36' | 13°11' | 0°24' | 4°11' | 15°45' | 4°33' | 20° 2' | 15°31' | 13°38' | 15° 1' | 10°54' | 0°49' |
| F 12 | 21 23 3 | 19°37'22" | 6 ^h 42' | 10°36' | 14°21' | 0°33' | 4° 4' | 15°51' | 4°35' | 20° 1' | 15°29' | 13°31' | 14°58' | 11° 1' | 0°51' |
| S 13 | 21 26 59 | 20°34'56" | 21°28' | 12°38' | 15°32' | 0°42' | 3°56' | 15°58' | 4°38' | 20° 0' | 15°28' | 13°27' | 14°54' | 11° 8' | 0°52' |
| S 14 | 21 30 56 | 21°32'31" | 6 ^h 11' | 14°40' | 16°43' | 0°51' | 3°49' | 16° 5' | 4°41' | 20° 0' | 15°27' | 13°25' | 14°51' | 11°14' | 0°53' |
| M15 | 21 34 53 | 22°30'08" | 20°45' | 16°42' | 17°54' | 1° 2' | 3°41' | 16°12' | 4°44' | 19°59' | 15°25' | 13°D25 | 14°48' | 11°21' | 0°55' |
| T 16 | 21 38 49 | 23°27'46" | 5 ^h 8' | 18°45' | 19° 5' | 1°13' | 3°34' | 16°19' | 4°46' | 19°58' | 15°24' | 13°26' | 14°45' | 11°27' | 0°56' |
| W17 | 21 42 46 | 24°25'26" | 19°11' | 20°47' | 20°16' | 1°25' | 3°26' | 16°26' | 4°49' | 19°58' | 15°23' | 13°R27 | 14°42' | 11°34' | 0°57' |
| T 18 | 21 46 42 | 25°23'08" | 3 ^h 11' | 22°49' | 21°27' | 1°37' | 3°18' | 16°32' | 4°51' | 19°57' | 15°21' | 13°27' | 14°38' | 11°41' | 0°59' |
| F 19 | 21 50 39 | 26°20'51" | 16°35' | 24°50' | 22°38' | 1°50' | 3°10' | 16°39' | 4°54' | 19°56' | 15°20' | 13°25' | 14°35' | 11°47' | 1° 0' |
| S 20 | 21 54 35 | 27°18'36" | 29°55' | 26°51' | 23°49' | 2° 4' | 3° 3' | 16°46' | 4°56' | 19°55' | 15°19' | 13°21' | 14°32' | 11°54' | 1° 1' |
| S 21 | 21 58 32 | 28°16'22" | 13 ^h 50' | 28°51' | 25° 1' | 2°19' | 2°55' | 16°52' | 4°59' | 19°54' | 15°17' | 13°16' | 14°29' | 12° 1' | 1° 2' |
| M22 | 22 2 28 | 29°14'10" | 25°52' | 0 ^h 50' | 26°12' | 2°34' | 2°47' | 16°59' | 5° 1' | 19°53' | 15°16' | 13° 9' | 14°26' | 12° 7' | 1° 3' |
| T 23 | 22 6 25 | 0 ^h 11'59" | 8 ^h 31' | 2°48' | 27°23' | 2°50' | 2°39' | 17° 5' | 5° 4' | 19°52' | 15°15' | 13° 1' | 14°23' | 12°14' | 1° 4' |
| W24 | 22 10 22 | 1° 9'50" | 20°58' | 4°44' | 28°35' | 3° 7' | 2°31' | 17°11' | 5° 6' | 19°51' | 15°13' | 12°53' | 14°19' | 12°21' | 1° 5' |
| T 25 | 22 14 18 | 2° 7'43" | 3 ^h 13' | 6°40' | 29°47' | 3°24' | 2°23' | 17°18' | 5° 8' | 19°51' | 15°12' | 12°47' | 14°16' | 12°27' | 1° 5' |
| F 26 | 22 18 15 | 3° 5'37" | 15°19' | 8°34' | 0 ^h 58' | 3°42' | 2°15' | 17°24' | 5°11' | 19°49' | 15°11' | 12°42' | 14°13' | 12°34' | 1° 6' |
| S 27 | 22 22 11 | 4° 3'32" | 27°15' | 10°27' | 2°10' | 4° 1' | 2° 7' | 17°30' | 5°13' | 19°48' | 15°10' | 12°39' | 14°10' | 12°41' | 1° 7' |
| S 28 | 22 26 8 | 5° 1'29" | 9 ^h 45' | 12°18' | 3°22' | 4°20' | 2° 0' | 17°36' | 5°15' | 19°47' | 15° 8' | 12°D38 | 14° 7' | 12°47' | 1° 7' |
| M29 | 22 30 4 | 5°59'27" | 20°52' | 14° 9' | 4°34' | 4°40' | 1°52' | 17°42' | 5°17' | 19°46' | 15° 7' | 12°38' | 14° 4' | 12°54' | 1° 8' |
| T 30 | 22 34 1 | 6°57'26" | 2 ^h 38' | 15°58' | 5°46' | 5° 0' | 1°44' | 17°48' | 5°20' | 19°45' | 15° 6' | 12°39' | 14° 0' | 13° 0' | 1° 8' |
| W31 | 22 37 57 | 7 ^h 55'27" | 14 ^h 29' | 17 ^h 45' | 6 ^h 58' | 5 ^h 21' | 1 ^h 36' | 17 ^h 54' | 5 ^h 22' | 19 ^h 44' | 15 ^h 5' | 12 ^h 41' | 13 ^h 57' | 13 ^h 4' | |

SWISS EPHEMERIS for the year 2033

SEPTEMBER 2033

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|------|--------|--------|--------|-------|-------|-------|-------|
| T 1 | 22 41 54 | 8♎53'30 | 26♎29 | 19♎32 | 8♏10 | 5♁43 | 1°R28 | 18♁0 | 5♁24 | 19°R43 | 15°R 3 | 12♁42 | 13♁54 | 13♁14 | 1♐9 | 1♐9 |
| F 2 | 22 45 50 | 9°51'33 | 8♎43 | 21°17 | 9°22 | 6° 5 | 1♐20 | 18° 6 | 5°26 | 19°Y42 | 15°≈ 2 | 12°R43 | 13°51 | 13°20 | 1° 9 | 1° 9 |
| S 3 | 22 49 47 | 10°49'38 | 21°16 | 23° 1 | 10°35 | 6°28 | 1°13 | 18°12 | 5°28 | 19°41 | 15° 1 | 12°42 | 13°48 | 13°27 | 1° 9 | 1° 9 |
| S 4 | 22 53 44 | 11°47'45 | 4♁12 | 24°44 | 11°47 | 6°51 | 1° 5 | 18°18 | 5°30 | 19°39 | 15° 0 | 12°41 | 13°44 | 13°34 | 1° 9 | 1° 9 |
| M 5 | 22 57 40 | 12°45'53 | 17°34 | 26°25 | 12°59 | 7°14 | 0°58 | 18°23 | 5°31 | 19°38 | 14°59 | 12°37 | 13°41 | 13°40 | 1°10 | 1°10 |
| T 6 | 23 1 37 | 13°44'02 | 1≈24 | 28° 5 | 14°12 | 7°39 | 0°50 | 18°29 | 5°33 | 19°37 | 14°57 | 12°34 | 13°38 | 13°47 | 1°R10 | 1°R10 |
| W 7 | 23 5 33 | 14°42'13 | 15°41 | 29°44 | 15°24 | 8° 3 | 0°43 | 18°34 | 5°35 | 19°36 | 14°56 | 12°30 | 13°35 | 13°54 | 1°10 | 1°10 |
| T 8 | 23 9 30 | 15°40'26 | 0♐20 | 1♁22 | 16°37 | 8°28 | 0°35 | 18°40 | 5°37 | 19°34 | 14°55 | 12°26 | 13°32 | 14° 0 | 1° 9 | 1° 9 |
| F 9 | 23 13 26 | 16°38'40 | 15°16 | 2°59 | 17°49 | 8°54 | 0°28 | 18°45 | 5°38 | 19°33 | 14°54 | 12°23 | 13°29 | 14° 7 | 1° 9 | 1° 9 |
| S 10 | 23 17 23 | 17°36'55 | 0°Y21 | 4°35 | 19° 2 | 9°20 | 0°21 | 18°50 | 5°40 | 19°32 | 14°53 | 12°21 | 13°25 | 14°14 | 1° 9 | 1° 9 |
| S 11 | 23 21 19 | 18°35'13 | 15°25 | 6° 9 | 20°15 | 9°46 | 0°14 | 18°56 | 5°42 | 19°30 | 14°52 | 12°D21 | 13°22 | 14°20 | 1° 9 | 1° 9 |
| M12 | 23 25 16 | 19°33'33 | 0♐20 | 7°42 | 21°28 | 10°13 | 0° 6 | 19° 1 | 5°43 | 19°29 | 14°51 | 12°22 | 13°19 | 14°27 | 1° 8 | 1° 8 |
| T 13 | 23 29 13 | 20°31'54 | 14°59 | 9°14 | 22°41 | 10°41 | 29≈59 | 19° 6 | 5°45 | 19°27 | 14°50 | 12°23 | 13°16 | 14°34 | 1° 8 | 1° 8 |
| W14 | 23 33 9 | 21°30'18 | 29°17 | 10°45 | 23°54 | 11° 8 | 29°53 | 19°11 | 5°46 | 19°26 | 14°49 | 12°24 | 13°13 | 14°40 | 1° 7 | 1° 7 |
| T 15 | 23 37 6 | 22°28'44 | 13♐14 | 12°15 | 25° 7 | 11°36 | 29°46 | 19°16 | 5°48 | 19°25 | 14°48 | 12°25 | 13°10 | 14°47 | 1° 7 | 1° 7 |
| F 16 | 23 41 2 | 23°27'12 | 26°48 | 13°44 | 26°20 | 12° 5 | 29°39 | 19°20 | 5°49 | 19°23 | 14°47 | 12°R25 | 13° 6 | 14°53 | 1° 6 | 1° 6 |
| S 17 | 23 44 59 | 24°25'43 | 10♁1 | 15°12 | 27°33 | 12°34 | 29°33 | 19°25 | 5°50 | 19°22 | 14°46 | 12°25 | 13° 3 | 15° 0 | 1° 5 | 1° 5 |
| S 18 | 23 48 55 | 25°24'15 | 22°55 | 16°38 | 28°46 | 13° 3 | 29°27 | 19°30 | 5°51 | 19°20 | 14°45 | 12°23 | 13° 0 | 15° 7 | 1° 5 | 1° 5 |
| M19 | 23 52 52 | 26°22'50 | 5♁33 | 18° 4 | 29°59 | 13°33 | 29°20 | 19°34 | 5°53 | 19°19 | 14°44 | 12°21 | 12°57 | 15°13 | 1° 4 | 1° 4 |
| T 20 | 23 56 48 | 27°21'27 | 17°56 | 19°28 | 1♐13 | 14° 3 | 29°14 | 19°39 | 5°54 | 19°17 | 14°43 | 12°19 | 12°54 | 15°20 | 1° 3 | 1° 3 |
| W21 | 0 0 45 | 28°20'05 | 0♎8 | 20°51 | 2°26 | 14°33 | 29° 8 | 19°43 | 5°55 | 19°16 | 14°42 | 12°17 | 12°50 | 15°27 | 1° 2 | 1° 2 |
| T 22 | 0 4 42 | 29°18'46 | 12°11 | 22°13 | 3°40 | 15° 4 | 29° 2 | 19°48 | 5°56 | 19°14 | 14°41 | 12°15 | 12°47 | 15°33 | 1° 1 | 1° 1 |
| F 23 | 0 8 38 | 0♁17'29 | 24° 6 | 23°33 | 4°53 | 15°35 | 28°57 | 19°52 | 5°57 | 19°13 | 14°40 | 12°14 | 12°44 | 15°40 | 1° 0 | 1° 0 |
| S 24 | 0 12 35 | 1°16'14 | 5♁57 | 24°52 | 6° 7 | 16° 7 | 28°51 | 19°56 | 5°58 | 19°11 | 14°39 | 12°13 | 12°41 | 15°47 | 0°59 | 0°59 |
| S 25 | 0 16 31 | 2°15'01 | 17°44 | 26°10 | 7°20 | 16°38 | 28°46 | 20° 0 | 5°59 | 19° 9 | 14°39 | 12°D13 | 12°38 | 15°53 | 0°58 | 0°58 |
| M26 | 0 20 28 | 3°13'49 | 29°30 | 27°27 | 8°34 | 17°10 | 28°40 | 20° 4 | 6° 0 | 19° 8 | 14°38 | 12°14 | 12°35 | 16° 0 | 0°57 | 0°57 |
| T 27 | 0 24 24 | 4°12'40 | 11♎19 | 28°41 | 9°48 | 17°43 | 28°35 | 20° 8 | 6° 0 | 19° 6 | 14°37 | 12°14 | 12°31 | 16° 7 | 0°55 | 0°55 |
| W28 | 0 28 21 | 5°11'32 | 23°13 | 29°55 | 11° 2 | 18°16 | 28°30 | 20°12 | 6° 1 | 19° 5 | 14°36 | 12°15 | 12°28 | 16°13 | 0°54 | 0°54 |
| T 29 | 0 32 17 | 6°10'27 | 5♁15 | 1♎6 | 12°15 | 18°49 | 28°26 | 20°15 | 6° 2 | 19° 3 | 14°35 | 12°16 | 12°25 | 16°20 | 0°52 | 0°52 |
| F 30 | 0 36 14 | 7♁9'23 | 17♁29 | 2♎16 | 13♎29 | 19♁22 | 28≈21 | 20♁19 | 6♁3 | 19°Y1 | 14≈35 | 12♁16 | 12♁22 | 16♁26 | 0♐51 | 0♐51 |

Delta T = 93.14 sec.

OCTOBER 2033

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ |
|------|---------|----------|-------|--------|-------|-------|--------|-------|-------|--------|--------|--------|-------|-------|-------|-------|
| S 1 | 0 40 10 | 8♎8'21 | 0♐0 | 3♎24 | 14♎43 | 19♁56 | 28°R17 | 20♁22 | 6♁3 | 19°R 0 | 14°R34 | 12♁17 | 12♁19 | 16♁33 | 0°R49 | 0°R49 |
| S 2 | 0 44 7 | 9° 7'20 | 12°51 | 4°30 | 15°57 | 20°29 | 28≈13 | 20°26 | 6° 4 | 18°Y58 | 14≈33 | 12°R17 | 12°15 | 16°40 | 0♐48 | 0♐48 |
| M 3 | 0 48 4 | 10° 6'22 | 26° 6 | 5°34 | 17°11 | 21° 4 | 28° 9 | 20°29 | 6° 4 | 18°56 | 14°33 | 12°17 | 12°12 | 16°46 | 0°46 | 0°46 |
| T 4 | 0 52 0 | 11° 5'25 | 9≈47 | 6°36 | 18°25 | 21°38 | 28° 5 | 20°32 | 6° 5 | 18°55 | 14°32 | 12°16 | 12° 9 | 16°53 | 0°44 | 0°44 |
| W 5 | 0 55 57 | 12° 4'29 | 23°55 | 7°35 | 19°39 | 22°13 | 28° 1 | 20°35 | 6° 5 | 18°53 | 14°31 | 12°D16 | 12° 6 | 17° 0 | 0°43 | 0°43 |
| T 6 | 0 59 53 | 13° 3'36 | 8♐28 | 8°31 | 20°53 | 22°47 | 27°57 | 20°38 | 6° 5 | 18°51 | 14°31 | 12°16 | 12° 3 | 17° 0 | 0°41 | 0°41 |
| F 7 | 1 3 50 | 14° 2'44 | 23°23 | 9°24 | 22° 8 | 23°23 | 27°54 | 20°41 | 6° 6 | 18°50 | 14°30 | 12°17 | 12° 0 | 17°13 | 0°39 | 0°39 |
| S 8 | 1 7 46 | 15° 1'55 | 8°Y32 | 10°14 | 23°22 | 23°58 | 27°51 | 20°44 | 6° 6 | 18°48 | 14°30 | 12°R17 | 11°56 | 17°20 | 0°37 | 0°37 |
| S 9 | 1 11 43 | 16° 1'07 | 23°45 | 11° 0 | 24°36 | 24°34 | 27°48 | 20°47 | 6° 6 | 18°46 | 14°29 | 12°17 | 11°53 | 17°26 | 0°35 | 0°35 |
| M10 | 1 15 39 | 17° 0'21 | 8♐55 | 11°43 | 25°50 | 25° 9 | 27°45 | 20°49 | 6° 6 | 18°45 | 14°29 | 12°16 | 11°50 | 17°33 | 0°33 | 0°33 |
| T 11 | 1 19 36 | 17°59'38 | 23°50 | 12°21 | 27° 5 | 25°45 | 27°43 | 20°52 | 6° 6 | 18°43 | 14°28 | 12°16 | 11°47 | 17°40 | 0°31 | 0°31 |
| W12 | 1 23 33 | 18°58'57 | 8♐25 | 12°55 | 28°19 | 26°22 | 27°40 | 20°54 | 6°R 6 | 18°41 | 14°28 | 12°15 | 11°44 | 17°46 | 0°29 | 0°29 |
| T 13 | 1 27 29 | 19°58'18 | 22°35 | 13°23 | 29°34 | 26°58 | 27°38 | 20°57 | 6° 6 | 18°40 | 14°27 | 12°14 | 11°41 | 17°53 | 0°27 | 0°27 |
| F 14 | 1 31 26 | 20°57'41 | 6♁17 | 13°46 | 0♁48 | 27°35 | 27°36 | 20°59 | 6° 6 | 18°38 | 14°27 | 12°14 | 11°37 | 17°59 | 0°25 | 0°25 |
| S 15 | 1 35 22 | 21°57'07 | 19°33 | 14° 3 | 2° 3 | 28°12 | 27°35 | 21° 1 | 6° 6 | 18°36 | 14°27 | 12°D13 | 11°34 | 18° 6 | 0°22 | 0°22 |
| S 16 | 1 39 19 | 22°56'35 | 2♁25 | 14°13 | 3°17 | 28°49 | 27°33 | 21° 3 | 6° 6 | 18°35 | 14°26 | 12°13 | 11°31 | 18°13 | 0°20 | 0°20 |
| M17 | 1 43 15 | 23°56'05 | 14°57 | 14°R16 | 4°32 | 29°26 | 27°32 | 21° 5 | 6° 5 | 18°33 | 14°26 | 12°14 | 11°28 | 18°19 | 0°18 | 0°18 |
| T 18 | 1 47 12 | 24°55'38 | 27°12 | 14°12 | 5°46 | 0≈3 | 27°30 | 21° 7 | 6° 5 | 18°31 | 14°26 | 12°15 | 11°25 | 18°26 | 0°15 | 0°15 |
| W19 | 1 51 8 | 25°55'13 | 9♎15 | 13°59 | 7° 1 | 0°41 | 27°29 | 21° 8 | 6° 5 | 18°30 | 14°26 | 12°16 | 11°21 | 18°33 | 0°13 | 0°13 |
| T 20 | 1 55 5 | 26°54'50 | 21° 9 | 13°38 | 8°16 | 1°19 | 27°29 | 21°10 | 6° 4 | 18°28 | 14°25 | 12°18 | 11°18 | 18°39 | 0°10 | 0°10 |
| F 21 | 1 59 2 | 27°54'29 | 2♁58 | 13° 8 | 9°30 | 1°57 | 27°28 | 21°11 | 6° 4 | 18°26 | 14°25 | 12°19 | 11°15 | 18°46 | 0° 8 | 0° 8 |
| S 22 | 2 2 58 | 28°54'10 | 14°45 | 12°30 | 10°45 | 2°35 | 27°28 | 21°12 | 6° 3 | 18°25 | 14°25 | 12°R19 | 11°12 | 18°53 | 0° 5 | 0° 5 |
| S 23 | 2 6 55 | 29°53'54 | 26°32 | 11°42 | 12° 0 | 3°13 | 27°D28 | 21°14 | 6° 3 | 18°23 | 14°25 | 12°18 | 11° 9 | 18°59 | 0° 2 | 0° 2 |
| M24 | 2 10 51 | 0♎53'39 | 8♎22 | 10°47 | 13°15 | 3°52 | 27°28 | 21°15 | 6° 2 | 18°22 | 14°25 | 12°17 | 11° 6 | 19° 6 | 29♁59 | 29♁59 |
| T 25 | 2 14 48 | 1°53'26 | 20°17 | 9°44 | 14°30 | 4°30 | 27°28 | 21°16 | 6° 1 | 18°20 | 14°25 | 12°14 | 11° 2 | 19°13 | 29°57 | 29°57 |
| W26 | 2 18 44 | 2°53'15 | 2♁19 | 8°35 | 15°44 | 5° 9 | 27°28 | 21°17 | 6° 1 | 18°18 | 14°25 | 12°11 | 10°59 | 19°19 | 29°54 | 29°54 |
| T 27 | 2 22 41 | 3°53'06 | 14°29 | 7°22 | 16°59 | 5°48 | 27°29 | 21°17 | 6° 0 | 18°17 | 14°25 | 12° 7 | 10°56 | 19°26 | 29°52 | 29°52 |
| F 28 | 2 26 37 | 4°52'59 | 26°50 | 6° 6 | 18°14 | 6°27 | 27°30 | 21°18 | 5°59 | 18°15 | 14°D25 | 12° 4 | 10°53 | 19°32 | 29°49 | 29°49 |
| S 29 | 2 30 34 | 5°52'54 | 9♁25 | 4°49 | 19°29 | 7° 6 | 27°31 | 21°19 | 5°58 | 18°14 | 14°25 | 12° 1 | 10°50 | 19°39 | 29°46 | 29°46 |
| S 30 | 2 34 31 | 6°52'50 | 22°16 | 3°34 | 20°44 | 7°46 | 27°32 | 21°19 | 5°57 | 18°12 | 14°25 | 11°59 | 10°47 | 19°46 | 29°43 | 29°43 |
| M31 | 2 38 27 | 7♎52'48 | 5≈25 | 2♎24 | 21♁59 | 8≈25 | 27≈34 | 21♁19 | 5♁6 | 18°Y10 | 14≈25 | 11°D58 | 10♁43 | 19♁52 | 29♁40 | 29♁40 |

Delta T = 93.28 sec.

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SWISS EPHEMERIS for the year 2033

NOVEMBER 2033

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|--------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|--------|---|
| T 1 | 2 42 24 | 8♈52'47 | 18♋56 | 1°R20 | 23♌14 | 9♍ 5 | 27♎35 | 21♏20 | 5°R55 | 18°R 9 | 14♐25 | 11♑58 | 10♒40 | 19♓59 | 29°R37 | |
| W 2 | 2 46 20 | 9°52'48 | 2♈50 | 0♈24 | 24°29 | 9°45 | 27°37 | 21°R20 | 5♁54 | 18°Y 7 | 14°25 | 11°59 | 10°37 | 20° 6 | 29♋34 | |
| T 3 | 2 50 17 | 10°52'51 | 17° 7 | 29♌39 | 25°44 | 10°25 | 27°39 | 21°20 | 5°53 | 18° 6 | 14°25 | 12° 1 | 10°34 | 20°12 | 29°31 | |
| F 4 | 2 54 13 | 11°52'55 | 1°Y45 | 29° 4 | 26°59 | 11° 5 | 27°41 | 21°19 | 5°52 | 18° 4 | 14°25 | 12° 2 | 10°31 | 20°19 | 29°28 | |
| S 5 | 2 58 10 | 12°53'01 | 16°41 | 28°40 | 28°14 | 11°45 | 27°44 | 21°19 | 5°51 | 18° 3 | 14°25 | 12°R 2 | 10°27 | 20°26 | 29°25 | |
| S 6 | 3 2 6 | 13°53'08 | 1♉48 | 28°29 | 29°29 | 12°25 | 27°47 | 21°19 | 5°49 | 18° 1 | 14°26 | 12° 1 | 10°24 | 20°32 | 29°22 | |
| M 7 | 3 6 3 | 14°53'17 | 16°56 | 28°D28 | 0♈45 | 13° 5 | 27°49 | 21°18 | 5°48 | 18° 0 | 14°26 | 11°58 | 10°21 | 20°39 | 29°19 | |
| T 8 | 3 9 59 | 15°53'28 | 1♈56 | 28°39 | 2° 0 | 13°46 | 27°52 | 21°18 | 5°47 | 17°58 | 14°26 | 11°54 | 10°18 | 20°46 | 29°16 | |
| W 9 | 3 13 56 | 16°53'41 | 16°40 | 29° 0 | 3°15 | 14°26 | 27°56 | 21°17 | 5°45 | 17°57 | 14°27 | 11°49 | 10°15 | 20°52 | 29°13 | |
| T 10 | 3 17 53 | 17°53'56 | 1♁ 0 | 29°30 | 4°30 | 15° 7 | 27°59 | 21°16 | 5°44 | 17°56 | 14°27 | 11°43 | 10°12 | 20°59 | 29°10 | |
| F 11 | 3 21 49 | 18°54'13 | 14°52 | 0♈10 | 5°45 | 15°47 | 28° 3 | 21°15 | 5°42 | 17°54 | 14°27 | 11°38 | 10° 8 | 21° 6 | 29° 7 | |
| S 12 | 3 25 46 | 19°54'31 | 28°16 | 0°57 | 7° 1 | 16°28 | 28° 7 | 21°14 | 5°41 | 17°53 | 14°28 | 11°34 | 10° 5 | 21°12 | 29° 4 | |
| S 13 | 3 29 42 | 20°54'52 | 11♈12 | 1°50 | 8°16 | 17° 9 | 28°11 | 21°13 | 5°39 | 17°51 | 14°28 | 11°32 | 10° 2 | 21°19 | 29° 0 | |
| M14 | 3 33 39 | 21°55'15 | 23°45 | 2°50 | 9°31 | 17°50 | 28°15 | 21°12 | 5°38 | 17°50 | 14°29 | 11°D32 | 9°59 | 21°25 | 28°57 | |
| T 15 | 3 37 35 | 22°55'39 | 5♈59 | 3°55 | 10°46 | 18°31 | 28°19 | 21°11 | 5°36 | 17°49 | 14°29 | 11°32 | 9°56 | 21°32 | 28°54 | |
| W16 | 3 41 32 | 23°56'05 | 17°58 | 5° 5 | 12° 2 | 19°12 | 28°24 | 21° 9 | 5°34 | 17°48 | 14°30 | 11°34 | 9°52 | 21°39 | 28°51 | |
| T 17 | 3 45 28 | 24°56'33 | 29°49 | 6°19 | 13°17 | 19°54 | 28°28 | 21° 8 | 5°33 | 17°46 | 14°30 | 11°36 | 9°49 | 21°45 | 28°48 | |
| F 18 | 3 49 25 | 25°57'03 | 11♁36 | 7°36 | 14°32 | 20°35 | 28°33 | 21° 6 | 5°31 | 17°45 | 14°31 | 11°R36 | 9°46 | 21°52 | 28°44 | |
| S 19 | 3 53 22 | 26°57'35 | 23°22 | 8°56 | 15°48 | 21°16 | 28°38 | 21° 4 | 5°29 | 17°44 | 14°31 | 11°35 | 9°43 | 21°59 | 28°41 | |
| S 20 | 3 57 18 | 27°58'08 | 5♈12 | 10°18 | 17° 3 | 21°58 | 28°44 | 21° 2 | 5°27 | 17°43 | 14°32 | 11°32 | 9°40 | 22° 5 | 28°38 | |
| M21 | 4 1 15 | 28°58'44 | 17° 9 | 11°42 | 18°18 | 22°39 | 28°49 | 21° 0 | 5°25 | 17°41 | 14°33 | 11°27 | 9°37 | 22°12 | 28°35 | |
| T 22 | 4 5 11 | 29°59'20 | 29°13 | 13° 8 | 19°34 | 23°21 | 28°55 | 20°58 | 5°23 | 17°40 | 14°33 | 11°20 | 9°33 | 22°19 | 28°31 | |
| W23 | 4 9 8 | 0♉59'58 | 11♁28 | 14°36 | 20°49 | 24° 3 | 29° 1 | 20°56 | 5°21 | 17°39 | 14°34 | 11°11 | 9°30 | 22°25 | 28°28 | |
| T 24 | 4 13 4 | 2° 0'38 | 23°53 | 16° 4 | 22° 5 | 24°45 | 29° 7 | 20°54 | 5°19 | 17°38 | 14°35 | 11° 1 | 9°27 | 22°32 | 28°25 | |
| F 25 | 4 17 1 | 3° 1'19 | 6♁30 | 17°34 | 23°20 | 25°26 | 29°13 | 20°51 | 5°17 | 17°37 | 14°35 | 10°51 | 9°24 | 22°39 | 28°22 | |
| S 26 | 4 20 58 | 4° 2'01 | 19°18 | 19° 4 | 24°35 | 26° 8 | 29°19 | 20°49 | 5°15 | 17°36 | 14°36 | 10°42 | 9°21 | 22°45 | 28°19 | |
| S 27 | 4 24 54 | 5° 2'44 | 2♈18 | 20°35 | 25°51 | 26°50 | 29°26 | 20°46 | 5°13 | 17°35 | 14°37 | 10°35 | 9°18 | 22°52 | 28°15 | |
| M28 | 4 28 51 | 6° 3'28 | 15°32 | 22° 7 | 27° 6 | 27°32 | 29°32 | 20°43 | 5°11 | 17°34 | 14°38 | 10°31 | 9°14 | 22°59 | 28°12 | |
| T 29 | 4 32 47 | 7° 4'13 | 29° 1 | 23°38 | 28°22 | 28°14 | 29°39 | 20°41 | 5° 9 | 17°33 | 14°39 | 10°29 | 9°11 | 23° 5 | 28° 9 | |
| W30 | 4 36 44 | 8♁ 4'59 | 12♈45 | 25♈11 | 29♈37 | 28♈56 | 29♈46 | 20♁38 | 5♁ 7 | 17°Y32 | 14♐40 | 10°D29 | 9♑ 8 | 23♓12 | 28♋ 6 | |

Delta T = 93.42 sec.

DECEMBER 2033

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|--------|-------|-------|-------|-------|--------|-------|--------|-------|--------|------|-------|--------|---|
| T 1 | 4 40 40 | 9♁ 5'46 | 26♈47 | 26♈43 | 0♉53 | 29♎39 | 29♎53 | 20°R35 | 5°R 4 | 17°R31 | 14♐41 | 10♑29 | 9♒ 5 | 23♓19 | 28°R 3 | |
| F 2 | 4 44 37 | 10° 6'34 | 11°Y 4 | 28°16 | 2° 8 | 0♈21 | 0♈ 0 | 20♁32 | 5♁ 2 | 17°Y30 | 14°41 | 10°R30 | 9° 2 | 23°25 | 27♋59 | |
| S 3 | 4 48 33 | 11° 7'23 | 25°37 | 29°49 | 3°23 | 1° 3 | 0° 8 | 20°28 | 5° 0 | 17°29 | 14°42 | 10°29 | 8°58 | 23°32 | 27°56 | |
| S 4 | 4 52 30 | 12° 8'13 | 10♉22 | 1♉22 | 4°39 | 1°45 | 0°16 | 20°25 | 4°57 | 17°29 | 14°43 | 10°26 | 8°55 | 23°38 | 27°53 | |
| M 5 | 4 56 27 | 13° 9'04 | 25°11 | 2°55 | 5°54 | 2°28 | 0°23 | 20°22 | 4°55 | 17°28 | 14°44 | 10°20 | 8°52 | 23°45 | 27°50 | |
| T 6 | 5 0 23 | 14° 9'55 | 9♈58 | 4°28 | 7°10 | 3°10 | 0°31 | 20°18 | 4°53 | 17°27 | 14°45 | 10°11 | 8°49 | 23°52 | 27°47 | |
| W 7 | 5 4 20 | 15°10'48 | 24°35 | 6° 2 | 8°25 | 3°53 | 0°39 | 20°15 | 4°50 | 17°26 | 14°47 | 10° 1 | 8°46 | 23°58 | 27°44 | |
| T 8 | 5 8 16 | 16°11'42 | 8♁53 | 7°35 | 9°41 | 4°35 | 0°47 | 20°11 | 4°48 | 17°26 | 14°48 | 9°50 | 8°43 | 24° 5 | 27°41 | |
| F 9 | 5 12 13 | 17°12'37 | 22°48 | 9° 9 | 10°56 | 5°17 | 0°56 | 20° 8 | 4°46 | 17°25 | 14°49 | 9°39 | 8°39 | 24°12 | 27°38 | |
| S 10 | 5 16 9 | 18°13'33 | 6♈16 | 10°42 | 12°12 | 6° 0 | 1° 4 | 20° 4 | 4°43 | 17°24 | 14°50 | 9°31 | 8°36 | 24°18 | 27°35 | |
| S 11 | 5 20 6 | 19°14'30 | 19°17 | 12°16 | 13°27 | 6°42 | 1°13 | 20° 0 | 4°41 | 17°24 | 14°51 | 9°24 | 8°33 | 24°25 | 27°32 | |
| M12 | 5 24 2 | 20°15'28 | 1♈54 | 13°49 | 14°43 | 7°25 | 1°22 | 19°56 | 4°38 | 17°23 | 14°52 | 9°20 | 8°30 | 24°32 | 27°29 | |
| T 13 | 5 27 59 | 21°16'28 | 14°10 | 15°23 | 15°58 | 8° 8 | 1°31 | 19°52 | 4°36 | 17°23 | 14°53 | 9°19 | 8°27 | 24°38 | 27°26 | |
| W14 | 5 31 56 | 22°17'28 | 26°11 | 16°57 | 17°14 | 8°50 | 1°40 | 19°48 | 4°33 | 17°22 | 14°55 | 9°D19 | 8°24 | 24°45 | 27°23 | |
| T 15 | 5 35 52 | 23°18'30 | 8♁ 2 | 18°30 | 18°29 | 9°33 | 1°49 | 19°44 | 4°31 | 17°22 | 14°56 | 9°R19 | 8°20 | 24°52 | 27°21 | |
| F 16 | 5 39 49 | 24°19'32 | 19°49 | 20° 4 | 19°45 | 10°16 | 1°58 | 19°40 | 4°28 | 17°21 | 14°57 | 9°18 | 8°17 | 24°58 | 27°18 | |
| S 17 | 5 43 45 | 25°20'35 | 1♈36 | 21°38 | 21° 0 | 10°58 | 2° 8 | 19°35 | 4°26 | 17°21 | 14°58 | 9°16 | 8°14 | 25° 5 | 27°15 | |
| S 18 | 5 47 42 | 26°21'40 | 13°30 | 23°13 | 22°16 | 11°41 | 2°17 | 19°31 | 4°23 | 17°21 | 15° 0 | 9°11 | 8°11 | 25°12 | 27°12 | |
| M19 | 5 51 38 | 27°22'45 | 25°33 | 24°47 | 23°31 | 12°24 | 2°27 | 19°27 | 4°21 | 17°20 | 15° 1 | 9° 4 | 8° 8 | 25°18 | 27°10 | |
| T 20 | 5 55 35 | 28°23'51 | 7♁48 | 26°21 | 24°47 | 13° 7 | 2°37 | 19°22 | 4°18 | 17°20 | 15° 2 | 8°53 | 8° 4 | 25°25 | 27° 7 | |
| W21 | 5 59 31 | 29°24'58 | 20°17 | 27°56 | 26° 2 | 13°49 | 2°47 | 19°18 | 4°16 | 17°20 | 15° 4 | 8°40 | 8° 1 | 25°32 | 27° 4 | |
| T 22 | 6 3 28 | 0♉26'05 | 3♁ 0 | 29°31 | 27°18 | 14°32 | 2°57 | 19°13 | 4°13 | 17°19 | 15° 5 | 8°26 | 7°58 | 25°38 | 27° 2 | |
| F 23 | 6 7 25 | 1°27'12 | 15°58 | 1♁ 6 | 28°33 | 15°15 | 3° 7 | 19° 9 | 4°10 | 17°19 | 15° 6 | 8°13 | 7°55 | 25°45 | 26°59 | |
| S 24 | 6 11 21 | 2°28'21 | 29° 8 | 2°41 | 29°49 | 15°58 | 3°17 | 19° 4 | 4° 8 | 17°19 | 15° 8 | 8° 0 | 7°52 | 25°51 | 26°57 | |
| S 25 | 6 15 18 | 3°29'29 | 12♋29 | 4°16 | 1♁ 4 | 16°41 | 3°28 | 19° 0 | 4° 5 | 17°19 | 15° 9 | 7°50 | 7°49 | 25°58 | 26°54 | |
| M26 | 6 19 14 | 4°30'37 | 25°59 | 5°52 | 2°20 | 17°24 | 3°38 | 18°55 | 4° 3 | 17°19 | 15°11 | 7°43 | 7°45 | 26° 5 | 26°52 | |
| T 27 | 6 23 11 | 5°31'46 | 9♈39 | 7°28 | 3°36 | 18° 6 | 3°49 | 18°50 | 4° 0 | 17°19 | 15°12 | 7°38 | 7°42 | 26°11 | 26°50 | |
| W28 | 6 27 7 | 6°32'54 | 23°27 | 9° 4 | 4°51 | 18°49 | 4° 0 | 18°45 | 3°57 | 17°D19 | 15°14 | 7°37 | 7°39 | 26°18 | 26°47 | |
| T 29 | 6 31 4 | 7°34'03 | 7°Y23 | 10°41 | 6° 7 | 19°32 | 4°11 | 18°41 | 3°55 | 17°19 | 15°15 | 7°37 | 7°36 | 26°25 | 26°45 | |
| F 30 | 6 35 0 | 8°35'11 | 21°28 | 12°17 | 7°22 | 20°15 | 4°22 | 18°36 | 3°52 | 17°19 | 15°17 | 7°36 | 7°33 | 26°31 | 26°43 | |
| S 31 | 6 38 57 | 9♁36'20 | 5♁41 | 13♁54 | 8♁38 | 20♈58 | 4♈33 | 18♁31 | 3♁50 | 17°Y19 | 15♎18 | 7♑35 | 7♑30 | 26♓38 | 26♋41 | |

Delta T = 93.55 sec.

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