

SWISS EPHEMERIS for the year 2087

JANUARY 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|--------|--------|-------|---------|---------|--------|-------|---------|--------|-------|-------|-------|---------|
| W 1 | 6 43 33 | 10♂45'53 | 25♎12 | 20♂10 | 2♁40 | 3°R53 | 18♎54 | 23°V21 | 27♁24 | 18°R17 | 19°R26 | 3♁51 | 2♁722 | 23♎29 | 12°R35 |
| T 2 | 6 47 30 | 11°47'03 | 7♁26 | 21°48 | 3°55 | 3♁30 | 18°54 | 23°22 | 27°27 | 18♎15 | 19°V26 | 3°R51 | 2°19 | 23°35 | 12°II32 |
| F 3 | 6 51 26 | 12°48'13 | 19°55 | 23°25 | 5°10 | 3° 8 | 18°R55 | 23°23 | 27°29 | 18°14 | 19°D26 | 3°50 | 2°16 | 23°42 | 12°29 |
| S 4 | 6 55 23 | 13°49'24 | 2♂42 | 25° 2 | 6°25 | 2°46 | 18°54 | 23°24 | 27°32 | 18°13 | 19°26 | 3°47 | 2°12 | 23°49 | 12°26 |
| S 5 | 6 59 20 | 14°50'34 | 15°46 | 26°40 | 7°40 | 2°25 | 18°54 | 23°25 | 27°35 | 18°11 | 19°26 | 3°41 | 2° 9 | 23°55 | 12°23 |
| M 6 | 7 3 16 | 15°51'45 | 29° 8 | 28°17 | 8°55 | 2° 4 | 18°54 | 23°26 | 27°38 | 18°10 | 19°27 | 3°35 | 2° 6 | 24° 2 | 12°20 |
| T 7 | 7 7 13 | 16°52'55 | 12♁45 | 29°54 | 10° 9 | 1°44 | 18°53 | 23°28 | 27°40 | 18° 9 | 19°27 | 3°27 | 2° 3 | 24° 9 | 12°18 |
| W 8 | 7 11 9 | 17°54'05 | 26°33 | 1♁30 | 11°24 | 1°24 | 18°52 | 23°29 | 27°43 | 18° 7 | 19°27 | 3°19 | 2° 0 | 24°15 | 12°15 |
| T 9 | 7 15 6 | 18°55'15 | 10♁31 | 3° 6 | 12°39 | 1° 5 | 18°51 | 23°31 | 27°46 | 18° 6 | 19°27 | 3°13 | 1°56 | 24°22 | 12°12 |
| F 10 | 7 19 2 | 19°56'24 | 24°34 | 4°42 | 13°54 | 0°47 | 18°50 | 23°32 | 27°49 | 18° 5 | 19°27 | 3° 8 | 1°53 | 24°29 | 12°10 |
| S 11 | 7 22 59 | 20°57'33 | 8°V41 | 6°16 | 15° 9 | 0°29 | 18°49 | 23°34 | 27°52 | 18° 3 | 19°27 | 3° 5 | 1°50 | 24°35 | 12° 7 |
| S 12 | 7 26 56 | 21°58'41 | 22°48 | 7°49 | 16°23 | 0°12 | 18°47 | 23°36 | 27°55 | 18° 2 | 19°27 | 3°D 4 | 1°47 | 24°42 | 12° 5 |
| M13 | 7 30 52 | 22°59'49 | 6♁55 | 9°21 | 17°38 | 29°II55 | 18°45 | 23°38 | 27°58 | 18° 0 | 19°28 | 3° 5 | 1°44 | 24°49 | 12° 2 |
| T 14 | 7 34 49 | 24° 0'56 | 21° 0 | 10°51 | 18°53 | 29°40 | 18°43 | 23°40 | 28° 1 | 17°59 | 19°28 | 3° 6 | 1°41 | 24°55 | 12° 0 |
| W15 | 7 38 45 | 25° 2'02 | 5°II 2 | 12°19 | 20° 7 | 29°25 | 18°41 | 23°42 | 28° 4 | 17°57 | 19°28 | 3°R 7 | 1°37 | 25° 2 | 11°58 |
| T 16 | 7 42 42 | 26° 3'08 | 19° 0 | 13°44 | 21°22 | 29°11 | 18°38 | 23°44 | 28° 7 | 17°56 | 19°28 | 3° 6 | 1°34 | 25° 9 | 11°55 |
| F 17 | 7 46 38 | 27° 4'14 | 2♁52 | 15° 6 | 22°37 | 28°57 | 18°36 | 23°47 | 28°10 | 17°54 | 19°29 | 3° 2 | 1°31 | 25°15 | 11°53 |
| S 18 | 7 50 35 | 28° 5'18 | 16°34 | 16°25 | 23°51 | 28°45 | 18°33 | 23°49 | 28°13 | 17°53 | 19°29 | 2°56 | 1°28 | 25°22 | 11°51 |
| S 19 | 7 54 31 | 29° 6'22 | 0♁ 3 | 17°39 | 25° 6 | 28°33 | 18°30 | 23°52 | 28°16 | 17°51 | 19°30 | 2°47 | 1°25 | 25°29 | 11°49 |
| M20 | 7 58 28 | 0♁ 7'26 | 13°17 | 18°48 | 26°20 | 28°22 | 18°27 | 23°54 | 28°19 | 17°49 | 19°30 | 2°37 | 1°22 | 25°35 | 11°47 |
| T 21 | 8 2 25 | 1° 8'29 | 26°14 | 19°51 | 27°35 | 28°11 | 18°24 | 23°57 | 28°22 | 17°48 | 19°30 | 2°26 | 1°18 | 25°42 | 11°45 |
| W22 | 8 6 21 | 2° 9'31 | 8♎54 | 20°47 | 28°49 | 28° 2 | 18°20 | 24° 0 | 28°26 | 17°46 | 19°31 | 2°15 | 1°15 | 25°49 | 11°43 |
| T 23 | 8 10 18 | 3°10'33 | 21°17 | 21°36 | 0♁ 4 | 27°53 | 18°17 | 24° 3 | 28°29 | 17°45 | 19°31 | 2° 6 | 1°12 | 25°55 | 11°41 |
| F 24 | 8 14 14 | 4°11'35 | 3♁26 | 22°17 | 1°18 | 27°45 | 18°13 | 24° 6 | 28°32 | 17°43 | 19°32 | 1°59 | 1° 9 | 26° 2 | 11°40 |
| S 25 | 8 18 11 | 5°12'36 | 15°23 | 22°48 | 2°32 | 27°38 | 18° 9 | 24° 9 | 28°35 | 17°41 | 19°32 | 1°54 | 1° 6 | 26° 9 | 11°38 |
| S 26 | 8 22 7 | 6°13'36 | 27°14 | 23° 9 | 3°47 | 27°32 | 18° 5 | 24°13 | 28°39 | 17°40 | 19°33 | 1°52 | 1° 2 | 26°15 | 11°36 |
| M27 | 8 26 4 | 7°14'36 | 9♎ 2 | 23°R20 | 5° 1 | 27°27 | 18° 0 | 24°16 | 28°42 | 17°38 | 19°33 | 1°D52 | 0°59 | 26°22 | 11°35 |
| T 28 | 8 30 0 | 8°15'36 | 20°55 | 23°20 | 6°15 | 27°22 | 17°56 | 24°20 | 28°45 | 17°36 | 19°34 | 1°52 | 0°56 | 26°29 | 11°33 |
| W29 | 8 33 57 | 9°16'35 | 2♁56 | 23° 8 | 7°30 | 27°18 | 17°51 | 24°23 | 28°48 | 17°35 | 19°34 | 1°R53 | 0°53 | 26°35 | 11°32 |
| T 30 | 8 37 54 | 10°17'33 | 15°12 | 22°45 | 8°44 | 27°15 | 17°46 | 24°27 | 28°52 | 17°33 | 19°35 | 1°52 | 0°50 | 26°42 | 11°31 |
| F 31 | 8 41 50 | 11°18'31 | 27♁47 | 22♁11 | 9♁58 | 27°II13 | 17°II41 | 24°V31 | 28♁55 | 17°II31 | 19°V36 | 1♁49 | 0♁47 | 26♁49 | 11°II29 |

Delta T = 190.35 sec.

FEBRUARY 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|--------|--------|--------|---------|---------|--------|-------|---------|--------|---------|---------|---------|---------|
| S 1 | 8 45 47 | 12♁19'28 | 10♂44 | 21°R26 | 11♁12 | 27°R12 | 17°R36 | 24°V35 | 28♁58 | 17°R30 | 19°V36 | 1°R43 | 0♁43 | 26♁55 | 11°R28 |
| S 2 | 8 49 43 | 13°20'24 | 24° 4 | 20♁33 | 12°26 | 27°D11 | 17♎31 | 24°39 | 29° 2 | 17°II28 | 19°37 | 1♁35 | 0°40 | 27° 2 | 11°II27 |
| M 3 | 8 53 40 | 14°21'19 | 7♁47 | 19°31 | 13°40 | 27°II11 | 17°25 | 24°43 | 29° 5 | 17°26 | 19°38 | 1°24 | 0°37 | 27° 9 | 11°26 |
| T 4 | 8 57 36 | 15°22'13 | 21°50 | 18°24 | 14°54 | 27°12 | 17°20 | 24°47 | 29° 9 | 17°25 | 19°38 | 1°12 | 0°34 | 27°15 | 11°25 |
| W 5 | 9 1 33 | 16°23'06 | 6♁ 8 | 17°13 | 16° 8 | 27°14 | 17°14 | 24°51 | 29°12 | 17°23 | 19°39 | 1° 0 | 0°31 | 27°22 | 11°24 |
| T 6 | 9 5 29 | 17°23'58 | 20°34 | 16° 0 | 17°22 | 27°16 | 17° 8 | 24°55 | 29°15 | 17°21 | 19°40 | 0°49 | 0°28 | 27°29 | 11°23 |
| F 7 | 9 9 26 | 18°24'48 | 5°V 2 | 14°47 | 18°36 | 27°19 | 17° 2 | 25° 0 | 29°19 | 17°20 | 19°40 | 0°41 | 0°24 | 27°35 | 11°22 |
| S 8 | 9 13 23 | 19°25'37 | 19°27 | 13°37 | 19°50 | 27°23 | 16°56 | 25° 4 | 29°22 | 17°18 | 19°41 | 0°35 | 0°21 | 27°42 | 11°22 |
| S 9 | 9 17 19 | 20°26'24 | 3♁44 | 12°30 | 21° 4 | 27°27 | 16°49 | 25° 9 | 29°26 | 17°16 | 19°42 | 0°33 | 0°18 | 27°49 | 11°21 |
| M10 | 9 21 16 | 21°27'10 | 17°52 | 11°29 | 22°17 | 27°33 | 16°43 | 25°13 | 29°29 | 17°14 | 19°43 | 0°D32 | 0°15 | 27°55 | 11°21 |
| T 11 | 9 25 12 | 22°27'54 | 1°II49 | 10°34 | 23°31 | 27°38 | 16°36 | 25°18 | 29°33 | 17°13 | 19°44 | 0°R32 | 0°12 | 28° 2 | 11°20 |
| W12 | 9 29 9 | 23°28'37 | 15°35 | 9°46 | 24°45 | 27°45 | 16°30 | 25°23 | 29°36 | 17°11 | 19°45 | 0°31 | 0° 8 | 28° 9 | 11°20 |
| T 13 | 9 33 5 | 24°29'18 | 29°12 | 9° 6 | 25°58 | 27°52 | 16°23 | 25°28 | 29°39 | 17° 9 | 19°45 | 0°29 | 0° 5 | 28°15 | 11°19 |
| F 14 | 9 37 2 | 25°29'58 | 12♁38 | 8°34 | 27°12 | 28° 0 | 16°16 | 25°33 | 29°43 | 17° 8 | 19°46 | 0°24 | 0° 2 | 28°22 | 11°19 |
| S 15 | 9 40 58 | 26°30'36 | 25°54 | 8°10 | 28°25 | 28° 8 | 16° 9 | 25°38 | 29°46 | 17° 6 | 19°47 | 0°15 | 29°II59 | 28°29 | 11°19 |
| S 16 | 9 44 55 | 27°31'12 | 9♁ 0 | 7°54 | 29°39 | 28°17 | 16° 2 | 25°43 | 29°50 | 17° 4 | 19°48 | 0° 4 | 29°56 | 28°36 | 11°19 |
| M17 | 9 48 52 | 28°31'47 | 21°54 | 7°46 | 0°V52 | 28°27 | 15°55 | 25°48 | 29°53 | 17° 3 | 19°49 | 29°II51 | 29°53 | 28°42 | 11°D19 |
| T 18 | 9 52 48 | 29°32'20 | 4♎36 | 7°D44 | 2° 5 | 28°37 | 15°48 | 25°54 | 29°57 | 17° 1 | 19°50 | 29°37 | 29°49 | 28°49 | 11°19 |
| W19 | 9 56 45 | 0♁32'52 | 17° 4 | 7°50 | 3°19 | 28°48 | 15°40 | 25°59 | 0♁ 0 | 17° 0 | 19°51 | 29°23 | 29°46 | 28°55 | 11°19 |
| T 20 | 10 0 41 | 1°33'22 | 29°20 | 8° 3 | 4°32 | 29° 0 | 15°33 | 26° 4 | 0° 4 | 16°58 | 19°52 | 29°11 | 29°43 | 29° 2 | 11°19 |
| F 21 | 10 4 38 | 2°33'51 | 11♁24 | 8°21 | 5°45 | 29°11 | 15°26 | 26°10 | 0° 7 | 16°56 | 19°53 | 29° 1 | 29°40 | 29° 9 | 11°19 |
| S 22 | 10 8 34 | 3°34'18 | 23°19 | 8°45 | 6°58 | 29°24 | 15°18 | 26°15 | 0°11 | 16°55 | 19°54 | 28°54 | 29°37 | 29°15 | 11°20 |
| S 23 | 10 12 31 | 4°34'45 | 5♎ 9 | 9°14 | 8°11 | 29°37 | 15°11 | 26°21 | 0°14 | 16°53 | 19°55 | 28°49 | 29°34 | 29°22 | 11°20 |
| M24 | 10 16 27 | 5°35'09 | 16°56 | 9°48 | 9°24 | 29°50 | 15° 3 | 26°27 | 0°17 | 16°52 | 19°56 | 28°47 | 29°30 | 29°29 | 11°21 |
| T 25 | 10 20 24 | 6°35'33 | 28°47 | 10°27 | 10°37 | 0♁ 4 | 14°55 | 26°32 | 0°21 | 16°50 | 19°57 | 28°D47 | 29°27 | 29°35 | 11°21 |
| W26 | 10 24 20 | 7°35'55 | 10♁47 | 11° 9 | 11°49 | 0°19 | 14°48 | 26°38 | 0°24 | 16°48 | 19°58 | 28°R47 | 29°24 | 29°42 | 11°22 |
| T 27 | 10 28 17 | 8°36'16 | 23° 1 | 11°56 | 13° 2 | 0°34 | 14°40 | 26°44 | 0°28 | 16°47 | 19°59 | 28°46 | 29°21 | 29°49 | 11°23 |
| F 28 | 10 32 14 | 9♁36'35 | 5♂35 | 12♁46 | 14°V15 | 0♁49 | 14°II32 | 26°V50 | 0♁31 | 16°II45 | 20°V 1 | 28°II44 | 29°II18 | 29°II55 | 11°II23 |

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SWISS EPHEMERIS for the year 2087

MARCH 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | |
|------|----------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|-----------------|------------------|---|---|---|---|---|---|---|--|
| S 1 | 10 36 10 | 10 H 36'53 | 18 C 33 | 13 A 39 | 15 V 27 | 1 E 5 | 14 R 24 | 26 V 56 | 0 H 35 | 16 R 44 | 20 V 2 | 28 R 39 | 29 M 14 | 0 M 2 | 11 I 24 | | | | | | | | |
| S 2 | 10 40 7 | 11°37'09 | 1 A 58 | 14°35 | 16°40 | 1°22 | 14 M 16 | 27° 2 | 0°38 | 16 Q 42 | 20° 3 | 28 M 31 | 29°11 | 0° 9 | 11°25 | | | | | | | | |
| M 3 | 10 44 3 | 12°37'24 | 15°50 | 15°34 | 17°52 | 1°38 | 14° 8 | 27° 8 | 0°42 | 16°41 | 20° 4 | 28°21 | 29° 8 | 0°15 | 11°26 | | | | | | | | |
| T 4 | 10 48 0 | 13°37'37 | 0 H 8 | 16°36 | 19° 5 | 1°56 | 14° 1 | 27°15 | 0°45 | 16°39 | 20° 5 | 28°10 | 29° 5 | 0°22 | 11°27 | | | | | | | | |
| W 5 | 10 51 56 | 14°37'48 | 14°47 | 17°40 | 20°17 | 2°13 | 13°53 | 27°21 | 0°48 | 16°38 | 20° 6 | 27°58 | 29° 2 | 0°29 | 11°28 | | | | | | | | |
| T 6 | 10 55 53 | 15°37'57 | 29°37 | 18°47 | 21°29 | 2°31 | 13°45 | 27°27 | 0°52 | 16°36 | 20° 8 | 27°48 | 28°59 | 0°35 | 11°30 | | | | | | | | |
| F 7 | 10 59 49 | 16°38'05 | 14 V 32 | 19°56 | 22°41 | 2°50 | 13°37 | 27°34 | 0°55 | 16°35 | 20° 9 | 27°40 | 28°55 | 0°42 | 11°31 | | | | | | | | |
| S 8 | 11 3 46 | 17°38'10 | 29°21 | 21° 7 | 23°53 | 3° 9 | 13°29 | 27°40 | 0°58 | 16°34 | 20°10 | 27°34 | 28°52 | 0°49 | 11°32 | | | | | | | | |
| S 9 | 11 7 43 | 18°38'14 | 13 C 59 | 22°19 | 25° 5 | 3°28 | 13°21 | 27°47 | 1° 2 | 16°32 | 20°11 | 27°32 | 28°49 | 0°55 | 11°34 | | | | | | | | |
| M10 | 11 11 39 | 19°38'15 | 28°21 | 23°34 | 26°17 | 3°47 | 13°14 | 27°53 | 1° 5 | 16°31 | 20°13 | 27°D31 | 28°46 | 1° 2 | 11°35 | | | | | | | | |
| T 11 | 11 15 36 | 20°38'14 | 12 I 24 | 24°50 | 27°29 | 4° 7 | 13° 6 | 28° 0 | 1° 8 | 16°29 | 20°14 | 27°31 | 28°43 | 1° 9 | 11°37 | | | | | | | | |
| W12 | 11 19 32 | 21°38'12 | 26° 9 | 26° 8 | 28°40 | 4°28 | 12°58 | 28° 6 | 1°12 | 16°28 | 20°15 | 27°R31 | 28°39 | 1°15 | 11°39 | | | | | | | | |
| T 13 | 11 23 29 | 22°38'06 | 9 E 37 | 27°28 | 29°52 | 4°48 | 12°50 | 28°13 | 1°15 | 16°27 | 20°16 | 27°30 | 28°36 | 1°22 | 11°40 | | | | | | | | |
| F 14 | 11 27 25 | 23°37'59 | 22°49 | 28°49 | 1 C 3 | 5° 9 | 12°43 | 28°20 | 1°18 | 16°26 | 20°18 | 27°26 | 28°33 | 1°29 | 11°42 | | | | | | | | |
| S 15 | 11 31 22 | 24°37'49 | 5 Q 47 | 0 H 12 | 2°15 | 5°31 | 12°35 | 28°27 | 1°22 | 16°24 | 20°19 | 27°20 | 28°30 | 1°35 | 11°44 | | | | | | | | |
| S 16 | 11 35 18 | 25°37'38 | 18°33 | 1°36 | 3°26 | 5°53 | 12°28 | 28°33 | 1°25 | 16°23 | 20°20 | 27°12 | 28°27 | 1°42 | 11°46 | | | | | | | | |
| M17 | 11 39 15 | 26°37'24 | 1 M 7 | 3° 2 | 4°37 | 6°14 | 12°20 | 28°40 | 1°28 | 16°22 | 20°22 | 27° 1 | 28°24 | 1°49 | 11°48 | | | | | | | | |
| T 18 | 11 43 12 | 27°37'07 | 13°31 | 4°29 | 5°48 | 6°37 | 12°13 | 28°47 | 1°31 | 16°21 | 20°23 | 26°50 | 28°20 | 1°55 | 11°50 | | | | | | | | |
| W19 | 11 47 8 | 28°36'49 | 25°46 | 5°57 | 6°59 | 6°59 | 12° 6 | 28°54 | 1°34 | 16°20 | 20°24 | 26°39 | 28°17 | 2° 2 | 11°52 | | | | | | | | |
| T 20 | 11 51 5 | 29°36'29 | 7 A 51 | 7°27 | 8°10 | 7°22 | 11°58 | 29° 1 | 1°38 | 16°18 | 20°25 | 26°29 | 28°14 | 2° 9 | 11°54 | | | | | | | | |
| F 21 | 11 55 1 | 0 V 36'07 | 19°48 | 8°58 | 9°21 | 7°45 | 11°51 | 29° 8 | 1°41 | 16°17 | 20°27 | 26°21 | 28°11 | 2°15 | 11°56 | | | | | | | | |
| S 22 | 11 58 58 | 1°35'43 | 1 M 40 | 10°31 | 10°31 | 8° 9 | 11°44 | 29°15 | 1°44 | 16°16 | 20°28 | 26°15 | 28° 8 | 2°22 | 11°59 | | | | | | | | |
| S 23 | 12 2 54 | 2°35'17 | 13°27 | 12° 5 | 11°42 | 8°33 | 11°37 | 29°22 | 1°47 | 16°15 | 20°30 | 26°12 | 28° 5 | 2°29 | 12° 1 | | | | | | | | |
| M24 | 12 6 51 | 3°34'49 | 25°15 | 13°40 | 12°52 | 8°57 | 11°30 | 29°29 | 1°50 | 16°14 | 20°31 | 26°D11 | 28° 1 | 2°35 | 12° 4 | | | | | | | | |
| T 25 | 12 10 47 | 4°34'20 | 7 A 6 | 15°16 | 14° 2 | 9°21 | 11°24 | 29°37 | 1°53 | 16°13 | 20°32 | 26°11 | 27°58 | 2°42 | 12° 6 | | | | | | | | |
| W26 | 12 14 44 | 5°33'49 | 19° 5 | 16°54 | 15°13 | 9°45 | 11°17 | 29°44 | 1°56 | 16°12 | 20°34 | 26°12 | 27°55 | 2°49 | 12° 9 | | | | | | | | |
| T 27 | 12 18 41 | 6°33'16 | 1 C 17 | 18°33 | 16°23 | 10°10 | 11°11 | 29°51 | 1°59 | 16°11 | 20°35 | 26°R13 | 27°52 | 2°55 | 12°11 | | | | | | | | |
| F 28 | 12 22 37 | 7°32'41 | 13°48 | 20°13 | 17°33 | 10°35 | 11° 4 | 29°58 | 2° 2 | 16°10 | 20°36 | 26°13 | 27°49 | 3° 2 | 12°14 | | | | | | | | |
| S 29 | 12 26 34 | 8°32'05 | 26°42 | 21°55 | 18°42 | 11° 0 | 10°58 | 0 C 6 | 2° 5 | 16° 9 | 20°38 | 26°12 | 27°45 | 3° 9 | 12°17 | | | | | | | | |
| S 30 | 12 30 30 | 9°31'26 | 10 A 3 | 23°38 | 19°52 | 11°26 | 10°52 | 0°13 | 2° 8 | 16° 8 | 20°39 | 26° 8 | 27°42 | 3°15 | 12°20 | | | | | | | | |
| M31 | 12 34 27 | 10 V 30'46 | 23 A 53 | 25 H 23 | 21 C 2 | 11 E 51 | 10 M 46 | 0 C 20 | 2 H 11 | 16° 8 | 20 V 41 | 26°M 3 | 27 M 39 | 3 M 22 | 12 I 22 | | | | | | | | |

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APRIL 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | |
|------|----------|---------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|-----------------|--------|------------------|------------------|------------------|-----------------|------------------|---|---|---|---|---|---|---|--|
| T 1 | 12 38 23 | 11 V 30'04 | 8 H 11 | 27 H 8 | 22 C 11 | 12 E 17 | 10°R40 | 0 C 28 | 2 H 14 | 16°R 7 | 20 V 42 | 25°R56 | 27 M 36 | 3 M 29 | 12 I 25 | | | | | | | | |
| W 2 | 12 42 20 | 12°29'21 | 22°54 | 28°56 | 23°20 | 12°43 | 10 M 34 | 0°35 | 2°17 | 16°Q 6 | 20°43 | 25 M 49 | 27°33 | 3°35 | 12°28 | | | | | | | | |
| T 3 | 12 46 16 | 13°28'35 | 7 V 55 | 0 V 44 | 24°29 | 13°10 | 10°28 | 0°42 | 2°19 | 16° 5 | 20°45 | 25°43 | 27°30 | 3°42 | 12°31 | | | | | | | | |
| F 4 | 12 50 13 | 14°27'47 | 23° 5 | 2°34 | 25°38 | 13°36 | 10°23 | 0°50 | 2°22 | 16° 4 | 20°46 | 25°38 | 27°26 | 3°49 | 12°35 | | | | | | | | |
| S 5 | 12 54 9 | 15°26'57 | 8 C 13 | 4°26 | 26°47 | 14° 3 | 10°17 | 0°57 | 2°25 | 16° 4 | 20°48 | 25°35 | 27°23 | 3°55 | 12°38 | | | | | | | | |
| S 6 | 12 58 6 | 16°26'05 | 23°12 | 6°18 | 27°56 | 14°30 | 10°12 | 1° 5 | 2°28 | 16° 3 | 20°49 | 25°D34 | 27°20 | 4° 2 | 12°41 | | | | | | | | |
| M 7 | 13 2 3 | 17°25'11 | 7 I 52 | 8°12 | 29° 5 | 14°57 | 10° 7 | 1°12 | 2°30 | 16° 2 | 20°51 | 25°34 | 27°17 | 4° 9 | 12°44 | | | | | | | | |
| T 8 | 13 5 59 | 18°24'15 | 22°11 | 10° 8 | 0 I 13 | 15°24 | 10° 2 | 1°20 | 2°33 | 16° 2 | 20°52 | 25°35 | 27°14 | 4°15 | 12°48 | | | | | | | | |
| W 9 | 13 9 56 | 19°23'16 | 6 E 5 | 12° 5 | 1°21 | 15°52 | 9°57 | 1°27 | 2°36 | 16° 1 | 20°53 | 25°37 | 27°11 | 4°22 | 12°51 | | | | | | | | |
| T 10 | 13 13 52 | 20°22'15 | 19°37 | 14° 3 | 2°29 | 16°20 | 9°53 | 1°35 | 2°38 | 16° 1 | 20°55 | 25°R37 | 27° 7 | 4°28 | 12°54 | | | | | | | | |
| F 11 | 13 17 49 | 21°21'12 | 2 Q 46 | 16° 3 | 3°37 | 16°48 | 9°48 | 1°42 | 2°41 | 16° 0 | 20°56 | 25°37 | 27° 4 | 4°35 | 12°58 | | | | | | | | |
| S 12 | 13 21 45 | 22°20'06 | 15°37 | 18° 4 | 4°45 | 17°16 | 9°44 | 1°50 | 2°43 | 16° 0 | 20°58 | 25°35 | 27° 1 | 4°42 | 13° 1 | | | | | | | | |
| S 13 | 13 25 42 | 23°18'58 | 28°12 | 20° 6 | 5°52 | 17°44 | 9°40 | 1°58 | 2°46 | 15°59 | 20°59 | 25°31 | 26°58 | 4°48 | 13° 5 | | | | | | | | |
| M14 | 13 29 38 | 24°17'48 | 10 M 33 | 22° 9 | 7° 0 | 18°12 | 9°36 | 2° 5 | 2°48 | 15°59 | 21° 0 | 25°26 | 26°55 | 4°55 | 13° 8 | | | | | | | | |
| T 15 | 13 33 35 | 25°16'35 | 22°44 | 24°14 | 8° 7 | 18°41 | 9°32 | 2°13 | 2°51 | 15°58 | 21° 2 | 25°21 | 26°51 | 5° 2 | 13°12 | | | | | | | | |
| W16 | 13 37 32 | 26°15'21 | 4 A 46 | 26°19 | 9°14 | 19°10 | 9°29 | 2°21 | 2°53 | 15°58 | 21° 3 | 25°16 | 26°48 | 5° 8 | 13°16 | | | | | | | | |
| T 17 | 13 41 28 | 27°14'04 | 16°41 | 28°25 | 10°21 | 19°38 | 9°25 | 2°28 | 2°56 | 15°58 | 21° 5 | 25°11 | 26°45 | 5°15 | 13°20 | | | | | | | | |
| F 18 | 13 45 25 | 28°12'46 | 28°32 | 0 C 32 | 11°27 | 20° 7 | 9°22 | 2°36 | 2°58 | 15°57 | 21° 6 | 25° 8 | 26°42 | 5°22 | 13°23 | | | | | | | | |
| S 19 | 13 49 21 | 29°11'25 | 10 M 21 | 2°39 | 12°34 | 20°37 | 9°19 | 2°43 | 3° 0 | 15°57 | 21° 8 | 25° 5 | 26°39 | 5°28 | 13°27 | | | | | | | | |
| S 20 | 13 53 18 | 0 C 10'03 | 22° 9 | 4°46 | 13°40 | 21° 6 | 9°16 | 2°51 | 3° 2 | 15°57 | 21° 9 | 25°D 4 | 26°36 | 5°35 | 13°31 | | | | | | | | |
| M21 | 13 57 14 | 1° 8'38 | 3 A 59 | 6°53 | 14°46 | 21°35 | 9°14 | 2°59 | 3° 5 | 15°57 | 21°10 | 25° 5 | 26°32 | 5°42 | 13°35 | | | | | | | | |
| T 22 | 14 1 11 | 2° 7'12 | 15°54 | 9° 0 | 15°52 | 22° 5 | 9°11 | 3° 6 | 3° 7 | 15°57 | 21°12 | 25° 6 | 26°29 | 5°48 | 13°39 | | | | | | | | |
| W23 | 14 5 7 | 3° 5'45 | 27°57 | 11° 6 | 16°57 | 22°35 | 9° 9 | 3°14 | 3° 9 | 15°56 | 21°13 | 25° 7 | 26°26 | 5°55 | 13°43 | | | | | | | | |
| T 24 | 14 9 4 | 4° 4'15 | 10 C 13 | 13°11 | 18° 2 | 23° 5 | 9° 7 | 3°22 | 3°11 | 15°56 | 21°15 | 25° 9 | 26°23 | 6° 2 | 13°47 | | | | | | | | |
| F 25 | 14 13 1 | 5° 2'44 | 22°44 | 15°15 | 19° 8 | 23°35 | 9° 5 | 3°29 | 3°13 | 15°56 | 21°16 | 25°10 | 26°20 | 6° 8 | 13°51 | | | | | | | | |
| S 26 | 14 16 57 | 6° 1'12 | 5 A 36 | 17°17 | 20°12 | 24° 5 | | | | | | | | | | | | | | | | | |

SWISS EPHEMERIS for the year 2087

MAY 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♁ | ♃ | ♄ |
|------|----------|----------|-------|--------|-------|-------|-------|------|------|-------|-------|--------|-------|-------|-------|
| T 1 | 14 36 40 | 10♂53'05 | 16♀ 8 | 26♂53 | 25♂33 | 26♂37 | 8°R57 | 4♂15 | 3♂24 | 15♂57 | 21♀24 | 25°R 4 | 26♂ 1 | 6♂48 | 14♂17 |
| F 2 | 14 40 36 | 11°51'22 | 1♂16 | 28°40 | 26°36 | 27° 8 | 8♂56 | 4°23 | 3°26 | 15°57 | 21°26 | 25♂ 2 | 25°57 | 6°55 | 14°21 |
| S 3 | 14 44 33 | 12°49'39 | 16°29 | 0♂23 | 27°39 | 27°39 | 8°55 | 4°30 | 3°28 | 15°57 | 21°27 | 25° 2 | 25°54 | 7° 2 | 14°25 |
| S 4 | 14 48 30 | 13°47'53 | 1♂36 | 2° 2 | 28°42 | 28°10 | 8°55 | 4°38 | 3°30 | 15°57 | 21°28 | 25°D 1 | 25°51 | 7° 8 | 14°30 |
| M 5 | 14 52 26 | 14°46'06 | 16°29 | 3°38 | 29°44 | 28°41 | 8°D55 | 4°46 | 3°31 | 15°58 | 21°30 | 25° 2 | 25°48 | 7°15 | 14°34 |
| T 6 | 14 56 23 | 15°44'16 | 1♂ 2 | 5°10 | 0♂46 | 29°13 | 8°55 | 4°53 | 3°33 | 15°58 | 21°31 | 25° 3 | 25°45 | 7°21 | 14°39 |
| W 7 | 15 0 19 | 16°42'25 | 15° 9 | 6°38 | 1°48 | 29°44 | 8°55 | 5° 1 | 3°34 | 15°58 | 21°32 | 25° 3 | 25°42 | 7°28 | 14°43 |
| T 8 | 15 4 16 | 17°40'32 | 28°50 | 8° 2 | 2°50 | 0♂16 | 8°56 | 5° 8 | 3°36 | 15°59 | 21°34 | 25° 4 | 25°38 | 7°35 | 14°48 |
| F 9 | 15 8 12 | 18°38'37 | 12♂ 5 | 9°22 | 3°51 | 0°47 | 8°56 | 5°16 | 3°37 | 15°59 | 21°35 | 25° 4 | 25°35 | 7°41 | 14°52 |
| S 10 | 15 12 9 | 19°36'40 | 24°57 | 10°38 | 4°52 | 1°19 | 8°57 | 5°23 | 3°39 | 15°59 | 21°36 | 25°R 4 | 25°32 | 7°48 | 14°57 |
| S 11 | 15 16 5 | 20°34'41 | 7♂29 | 11°50 | 5°52 | 1°51 | 8°58 | 5°31 | 3°40 | 16° 0 | 21°37 | 25° 4 | 25°29 | 7°55 | 15° 1 |
| M12 | 15 20 2 | 21°32'40 | 19°44 | 12°57 | 6°52 | 2°23 | 8°59 | 5°38 | 3°41 | 16° 0 | 21°39 | 25° 4 | 25°26 | 8° 1 | 15° 6 |
| T 13 | 15 23 59 | 22°30'37 | 1♂48 | 14° 0 | 7°52 | 2°55 | 9° 1 | 5°46 | 3°43 | 16° 1 | 21°40 | 25° 4 | 25°22 | 8° 8 | 15°11 |
| W14 | 15 27 55 | 23°28'32 | 13°43 | 14°58 | 8°51 | 3°27 | 9° 2 | 5°53 | 3°44 | 16° 1 | 21°41 | 25° 3 | 25°19 | 8°15 | 15°15 |
| T 15 | 15 31 52 | 24°26'26 | 25°33 | 15°53 | 9°50 | 3°59 | 9° 4 | 6° 1 | 3°45 | 16° 2 | 21°42 | 25° 3 | 25°16 | 8°21 | 15°20 |
| F 16 | 15 35 48 | 25°24'18 | 7♂21 | 16°42 | 10°48 | 4°31 | 9° 6 | 6° 8 | 3°46 | 16° 3 | 21°44 | 25°D 3 | 25°13 | 8°28 | 15°25 |
| S 17 | 15 39 45 | 26°22'09 | 19° 9 | 17°27 | 11°46 | 5° 4 | 9° 8 | 6°15 | 3°47 | 16° 3 | 21°45 | 25°R 3 | 25°10 | 8°35 | 15°30 |
| S 18 | 15 43 41 | 27°19'58 | 1♂ 1 | 18° 7 | 12°43 | 5°36 | 9°10 | 6°23 | 3°48 | 16° 4 | 21°46 | 25° 3 | 25° 7 | 8°41 | 15°34 |
| M19 | 15 47 38 | 28°17'46 | 12°57 | 18°43 | 13°40 | 6° 9 | 9°12 | 6°30 | 3°49 | 16° 5 | 21°47 | 25° 3 | 25° 3 | 8°48 | 15°39 |
| T 20 | 15 51 34 | 29°15'33 | 25° 1 | 19°14 | 14°37 | 6°42 | 9°15 | 6°37 | 3°50 | 16° 6 | 21°48 | 25° 3 | 25° 0 | 8°55 | 15°44 |
| W21 | 15 55 31 | 0♂13'18 | 7♂15 | 19°40 | 15°33 | 7°14 | 9°18 | 6°45 | 3°51 | 16° 6 | 21°50 | 25° 2 | 24°57 | 9° 1 | 15°49 |
| T 22 | 15 59 28 | 1°11'02 | 19°40 | 20° 1 | 16°29 | 7°47 | 9°20 | 6°52 | 3°52 | 16° 7 | 21°51 | 25° 1 | 24°54 | 9° 8 | 15°54 |
| F 23 | 16 3 24 | 2° 8'44 | 2♂19 | 20°17 | 17°24 | 8°20 | 9°24 | 6°59 | 3°53 | 16° 8 | 21°52 | 25° 1 | 24°51 | 9°15 | 15°58 |
| S 24 | 16 7 21 | 3° 6'26 | 15°15 | 20°29 | 18°18 | 8°53 | 9°27 | 7° 6 | 3°54 | 16° 9 | 21°53 | 25° 0 | 24°48 | 9°21 | 16° 3 |
| S 25 | 16 11 17 | 4° 4'07 | 28°30 | 20°36 | 19°12 | 9°26 | 9°30 | 7°13 | 3°54 | 16°10 | 21°54 | 25°D 0 | 24°44 | 9°28 | 16° 8 |
| M26 | 16 15 14 | 5° 1'46 | 12♂ 5 | 20°R38 | 20° 5 | 9°59 | 9°34 | 7°20 | 3°55 | 16°11 | 21°55 | 25° 0 | 24°41 | 9°35 | 16°13 |
| T 27 | 16 19 10 | 5°59'25 | 26° 2 | 20°35 | 20°58 | 10°32 | 9°38 | 7°28 | 3°56 | 16°12 | 21°56 | 25° 0 | 24°38 | 9°41 | 16°18 |
| W28 | 16 23 7 | 6°57'03 | 10♀21 | 20°28 | 21°50 | 11° 6 | 9°41 | 7°35 | 3°56 | 16°13 | 21°57 | 25° 1 | 24°35 | 9°48 | 16°23 |
| T 29 | 16 27 3 | 7°54'40 | 24°58 | 20°17 | 22°41 | 11°39 | 9°45 | 7°42 | 3°57 | 16°14 | 21°58 | 25° 2 | 24°32 | 9°54 | 16°28 |
| F 30 | 16 31 0 | 8°52'15 | 9♂50 | 20° 1 | 23°32 | 12°13 | 9°50 | 7°49 | 3°57 | 16°15 | 21°59 | 25° 3 | 24°28 | 10° 1 | 16°33 |
| S 31 | 16 34 57 | 9♂49'51 | 24♂50 | 19♂42 | 24♂22 | 12♂46 | 9♂54 | 7♂55 | 3♂57 | 16♂16 | 22♀ 0 | 25°R 3 | 24♂25 | 10♂ 8 | 16♂38 |

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JUNE 2087

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

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SWISS EPHEMERIS for the year 2087

JULY 2087

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|------|----------|-----------------------|----------------------|---------------------|---------------------|---------------------|----------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
| T 1 | 18 37 10 | 9 ²⁷ 27'29 | 17 ⁵³ 34 | 17 ^{II} 44 | 11 ^{II} 7 | 0 ^{III} 38 | 13 ^{III} 21 | 11 ^{III} 5 | 3 ^R 46 | 17 ^{II} 2 | 22 ^V 24 | 24 ^R 15 | 22 ^M 47 | 13 ^M 34 | 19 ^{II} 11 |
| W 2 | 18 41 6 | 10 ²⁴ 43 | 1 ^{II} 42 | 18 ⁴¹ | 11 ¹³ | 1 ¹⁴ | 13 ³⁰ | 11 ¹⁰ | 3 ^{II} 45 | 17 ⁴ | 22 ²⁴ | 24 ^M 7 | 22 ⁴⁴ | 13 ⁴¹ | 19 ¹⁶ |
| T 3 | 18 45 3 | 11 ²¹ 57 | 15 ²⁸ | 19 ⁴³ | 11 ¹⁸ | 1 ⁴⁹ | 13 ³⁹ | 11 ¹⁵ | 3 ⁴⁴ | 17 ⁶ | 22 ²⁵ | 24 ⁰ | 22 ⁴⁰ | 13 ⁴⁷ | 19 ²⁰ |
| F 4 | 18 48 59 | 12 ¹⁹ 11 | 28 ⁵⁰ | 20 ⁴⁸ | 11 ^R 20 | 2 ²⁵ | 13 ⁴⁷ | 11 ²⁰ | 3 ⁴³ | 17 ⁸ | 22 ²⁵ | 23 ⁵³ | 22 ³⁷ | 13 ⁵⁴ | 19 ²⁵ |
| S 5 | 18 52 56 | 13 ¹⁶ 24 | 11 ^{III} 48 | 21 ⁵⁸ | 11 ¹⁹ | 3 ¹ | 13 ⁵⁶ | 11 ²⁵ | 3 ⁴² | 17 ¹⁰ | 22 ²⁵ | 23 ⁴⁷ | 22 ³⁴ | 14 ⁰ | 19 ³⁰ |
| S 6 | 18 56 53 | 14 ¹³ 37 | 24 ²⁴ | 23 ¹¹ | 11 ¹⁷ | 3 ³⁶ | 14 ⁶ | 11 ³⁰ | 3 ⁴⁰ | 17 ¹² | 22 ²⁶ | 23 ⁴³ | 22 ³¹ | 14 ⁷ | 19 ³⁵ |
| M 7 | 19 0 49 | 15 ¹⁰ 50 | 6 ^{II} 40 | 24 ²⁹ | 11 ¹² | 4 ¹² | 14 ¹⁵ | 11 ³⁵ | 3 ³⁹ | 17 ¹⁴ | 22 ²⁶ | 23 ⁴¹ | 22 ²⁸ | 14 ¹⁴ | 19 ³⁹ |
| T 8 | 19 4 46 | 16 ⁸ 02 | 18 ⁴³ | 25 ⁵¹ | 11 ⁴ | 4 ⁴⁸ | 14 ²⁴ | 11 ⁴⁰ | 3 ³⁸ | 17 ¹⁶ | 22 ²⁶ | 23 ^D 41 | 22 ²⁵ | 14 ²⁰ | 19 ⁴⁴ |
| W 9 | 19 8 42 | 17 ⁵ 15 | 0 ^M 35 | 27 ¹⁶ | 10 ⁵⁴ | 5 ²⁴ | 14 ³³ | 11 ⁴⁴ | 3 ³⁶ | 17 ¹⁸ | 22 ²⁷ | 23 ⁴² | 22 ²¹ | 14 ²⁷ | 19 ⁴⁹ |
| T 10 | 19 12 39 | 18 ² 27 | 12 ²³ | 28 ⁴⁵ | 10 ⁴² | 6 ⁰ | 14 ⁴³ | 11 ⁴⁹ | 3 ³⁵ | 17 ¹⁹ | 22 ²⁷ | 23 ⁴³ | 22 ¹⁸ | 14 ³⁴ | 19 ⁵³ |
| F 11 | 19 16 35 | 18 ⁵⁹ 39 | 24 ¹³ | 0 ^{II} 18 | 10 ²⁷ | 6 ³⁶ | 14 ⁵³ | 11 ⁵³ | 3 ³³ | 17 ²¹ | 22 ²⁷ | 23 ^R 43 | 22 ¹⁵ | 14 ⁴⁰ | 19 ⁵⁸ |
| S 12 | 19 20 32 | 19 ⁵⁶ 51 | 6 ^{II} 8 | 1 ⁵⁵ | 10 ¹⁰ | 7 ¹² | 15 ² | 11 ⁵⁸ | 3 ³² | 17 ²⁴ | 22 ²⁸ | 23 ⁴² | 22 ¹² | 14 ⁴⁷ | 20 ² |
| S 13 | 19 24 28 | 20 ⁵⁴ 03 | 18 ¹² | 3 ³⁵ | 9 ⁵¹ | 7 ⁴⁸ | 15 ¹² | 12 ² | 3 ³⁰ | 17 ²⁶ | 22 ²⁸ | 23 ³⁹ | 22 ⁹ | 14 ⁵⁴ | 20 ⁷ |
| M 14 | 19 28 25 | 21 ⁵¹ 15 | 0 ^{II} 29 | 5 ¹⁹ | 9 ²⁹ | 8 ²⁴ | 15 ²² | 12 ⁶ | 3 ²⁹ | 17 ²⁸ | 22 ²⁸ | 23 ³⁴ | 22 ⁶ | 15 ⁰ | 20 ¹¹ |
| T 15 | 19 32 22 | 22 ⁴⁸ 27 | 13 ¹ | 7 ⁶ | 9 ⁶ | 9 ¹ | 15 ³² | 12 ¹⁰ | 3 ²⁷ | 17 ³⁰ | 22 ²⁸ | 23 ²⁷ | 22 ² | 15 ⁷ | 20 ¹⁶ |
| W 16 | 19 36 18 | 23 ⁴⁵ 40 | 25 ⁴⁸ | 8 ⁵⁶ | 8 ⁴⁰ | 9 ³⁷ | 15 ⁴² | 12 ¹⁴ | 3 ²⁶ | 17 ³² | 22 ²⁸ | 23 ¹⁸ | 21 ⁵⁹ | 15 ¹⁴ | 20 ²⁰ |
| T 17 | 19 40 15 | 24 ⁴² 53 | 8 ^{II} 51 | 10 ⁴⁹ | 8 ¹² | 10 ¹³ | 15 ⁵² | 12 ¹⁸ | 3 ²⁴ | 17 ³⁴ | 22 ²⁸ | 23 ⁷ | 21 ⁵⁶ | 15 ²⁰ | 20 ²⁵ |
| F 18 | 19 44 11 | 25 ⁴⁰ 06 | 2 ² 8 | 12 ⁴⁵ | 7 ⁴² | 10 ⁵⁰ | 16 ² | 12 ²² | 3 ²² | 17 ³⁶ | 22 ²⁸ | 22 ⁵⁷ | 21 ⁵³ | 15 ²⁷ | 20 ²⁹ |
| S 19 | 19 48 8 | 26 ³⁷ 19 | 5 ^{II} 38 | 14 ⁴³ | 7 ¹¹ | 11 ²⁶ | 16 ¹³ | 12 ²⁶ | 3 ²¹ | 17 ³⁸ | 22 ²⁹ | 22 ⁴⁸ | 21 ⁵⁰ | 15 ³³ | 20 ³³ |
| S 20 | 19 52 4 | 27 ³⁴ 34 | 19 ¹⁹ | 16 ⁴³ | 6 ³⁸ | 12 ² | 16 ²³ | 12 ³⁰ | 3 ¹⁹ | 17 ⁴⁰ | 22 ²⁹ | 22 ⁴¹ | 21 ⁴⁶ | 15 ⁴⁰ | 20 ³⁸ |
| M 21 | 19 56 1 | 28 ³¹ 49 | 3 ^V 8 | 18 ⁴⁶ | 6 ⁴ | 12 ³⁹ | 16 ³³ | 12 ³³ | 3 ¹⁷ | 17 ⁴² | 22 ²⁹ | 22 ³⁶ | 21 ⁴³ | 15 ⁴⁷ | 20 ⁴² |
| T 22 | 19 59 57 | 29 ²⁹ 04 | 17 ⁵ | 20 ⁵⁰ | 5 ²⁹ | 13 ¹⁶ | 16 ⁴⁴ | 12 ³⁷ | 3 ¹⁵ | 17 ⁴⁴ | 22 ^R 29 | 22 ³³ | 21 ⁴⁰ | 15 ⁵³ | 20 ⁴⁶ |
| W 23 | 20 3 54 | 0 ^{II} 26'21 | 1 ^{II} 9 | 22 ⁵⁵ | 4 ⁵³ | 13 ⁵² | 16 ⁵⁵ | 12 ⁴⁰ | 3 ¹³ | 17 ⁴⁶ | 22 ²⁹ | 22 ^D 33 | 21 ³⁷ | 16 ⁰ | 20 ⁵⁰ |
| T 24 | 20 7 51 | 1 ²³ 38 | 15 ¹⁷ | 25 ¹ | 4 ¹⁶ | 14 ²⁹ | 17 ⁵ | 12 ⁴⁴ | 3 ¹¹ | 17 ⁴⁹ | 22 ²⁹ | 22 ^R 33 | 21 ³⁴ | 16 ⁷ | 20 ⁵⁴ |
| F 25 | 20 11 47 | 2 ²⁰ 56 | 29 ³¹ | 27 ⁸ | 3 ³⁹ | 15 ⁶ | 17 ¹⁶ | 12 ⁴⁷ | 3 ⁹ | 17 ⁵¹ | 22 ²⁹ | 22 ³³ | 21 ³¹ | 16 ¹³ | 20 ⁵⁹ |
| S 26 | 20 15 44 | 3 ¹⁸ 16 | 13 ^{II} 47 | 29 ¹⁵ | 3 ¹ | 15 ⁴² | 17 ²⁷ | 12 ⁵⁰ | 3 ⁷ | 17 ⁵³ | 22 ²⁹ | 22 ³² | 21 ²⁷ | 16 ²⁰ | 21 ³ |
| S 27 | 20 19 40 | 4 ¹⁵ 36 | 28 ² | 1 ^{II} 23 | 2 ²⁴ | 16 ¹⁹ | 17 ³⁸ | 12 ⁵³ | 3 ⁵ | 17 ⁵⁵ | 22 ²⁹ | 22 ²⁸ | 21 ²⁴ | 16 ²⁷ | 21 ⁷ |
| M 28 | 20 23 37 | 5 ¹² 57 | 12 ^{II} 14 | 3 ³⁰ | 1 ⁴⁷ | 16 ⁵⁶ | 17 ⁴⁹ | 12 ⁵⁶ | 3 ³ | 17 ⁵⁷ | 22 ²⁸ | 22 ²¹ | 21 ²¹ | 16 ³³ | 21 ¹¹ |
| T 29 | 20 27 33 | 6 ¹⁰ 18 | 2 ^{II} 8 | 5 ³⁶ | 1 ¹⁰ | 17 ³³ | 18 ⁰ | 12 ⁵⁹ | 3 ¹ | 17 ⁵⁹ | 22 ²⁸ | 22 ¹² | 21 ¹⁸ | 16 ⁴⁰ | 21 ¹⁵ |
| W 30 | 20 31 30 | 7 ⁷ 41 | 10 ^{II} 9 | 7 ⁴² | 0 ³⁵ | 18 ¹⁰ | 18 ¹¹ | 13 ² | 2 ⁵⁹ | 18 ² | 22 ²⁸ | 22 ¹ | 21 ¹⁵ | 16 ⁴⁷ | 21 ¹⁹ |
| T 31 | 20 35 27 | 8 ^{II} 5'04 | 23 ^{II} 43 | 9 ^{II} 48 | 29 ^{II} 59 | 18 ^{II} 47 | 18 ^{II} 22 | 13 ^{II} 4 | 2 ^{II} 57 | 18 ^{II} 4 | 22 ^V 28 | 21 ^{II} 49 | 21 ^{II} 11 | 16 ^{II} 53 | 21 ^{II} 22 |

Delta T = 191.34 sec.

AUGUST 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------------------|---------------------|---------------------|---------------------|----------------------|----------------------|---------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|---------------------|
| F 1 | 20 39 23 | 9 ^{II} 2'28 | 6 ^{III} 57 | 11 ^{II} 52 | 29 ^R 26 | 19 ^{III} 24 | 18 ^{III} 34 | 13 ^{III} 7 | 2 ^R 55 | 18 ^{II} 6 | 22 ^R 28 | 21 ^R 38 | 21 ^M 8 | 17 ^M 0 | 21 ^{II} 26 |
| S 2 | 20 43 20 | 9 ⁵⁹ 52 | 19 ⁵⁰ | 13 ⁵⁵ | 28 ^{II} 54 | 20 ² | 18 ⁴⁵ | 13 ¹⁰ | 2 ^{II} 53 | 18 ⁸ | 22 ^V 28 | 21 ^M 28 | 21 ⁵ | 17 ⁷ | 21 ³⁰ |
| S 3 | 20 47 16 | 10 ⁵⁷ 17 | 2 ^{II} 23 | 15 ⁵⁶ | 28 ²³ | 20 ³⁹ | 18 ⁵⁶ | 13 ¹² | 2 ⁵¹ | 18 ¹⁰ | 22 ²⁷ | 21 ²¹ | 21 ² | 17 ¹³ | 21 ³⁴ |
| M 4 | 20 51 13 | 11 ⁵⁴ 43 | 14 ³⁸ | 17 ⁵⁷ | 27 ⁵⁴ | 21 ¹⁶ | 19 ⁸ | 13 ¹⁴ | 2 ⁴⁹ | 18 ¹³ | 22 ²⁷ | 21 ¹⁶ | 20 ⁵⁹ | 17 ²⁰ | 21 ³⁸ |
| T 5 | 20 55 9 | 12 ⁵² 10 | 26 ⁴⁰ | 19 ⁵⁶ | 27 ²⁶ | 21 ⁵³ | 19 ¹⁹ | 13 ¹⁶ | 2 ⁴⁷ | 18 ¹⁵ | 22 ²⁷ | 21 ¹³ | 20 ⁵⁶ | 17 ²⁶ | 21 ⁴¹ |
| W 6 | 20 59 6 | 13 ⁴⁹ 37 | 8 ^{III} 32 | 21 ⁵³ | 27 ¹ | 22 ³¹ | 19 ³¹ | 13 ¹⁹ | 2 ⁴⁴ | 18 ¹⁷ | 22 ²⁶ | 21 ¹² | 20 ⁵² | 17 ³³ | 21 ⁴⁵ |
| T 7 | 21 3 2 | 14 ⁴⁷ 05 | 10 ²⁰ | 23 ⁴⁹ | 26 ³⁷ | 23 ⁸ | 19 ⁴² | 13 ²¹ | 2 ⁴² | 18 ¹⁹ | 22 ²⁶ | 21 ¹² | 20 ⁴⁹ | 17 ⁴⁰ | 21 ⁴⁸ |
| F 8 | 21 6 59 | 15 ⁴⁴ 33 | 2 ^{II} 11 | 25 ⁴⁴ | 26 ¹⁶ | 23 ⁴⁶ | 19 ⁵⁴ | 13 ²² | 2 ⁴⁰ | 18 ²¹ | 22 ²⁶ | 21 ¹² | 20 ⁴⁶ | 17 ⁴⁶ | 21 ⁵² |
| S 9 | 21 10 55 | 16 ⁴² 03 | 14 ⁸ | 27 ³⁷ | 25 ⁵⁷ | 24 ²³ | 20 ⁶ | 13 ²⁴ | 2 ³⁸ | 18 ²⁴ | 22 ²⁵ | 21 ¹⁰ | 20 ⁴³ | 17 ⁵³ | 21 ⁵⁵ |
| S 10 | 21 14 52 | 17 ³⁹ 33 | 26 ¹⁷ | 29 ²⁸ | 25 ⁴¹ | 25 ¹ | 20 ¹⁸ | 13 ²⁶ | 2 ³⁵ | 18 ²⁶ | 22 ²⁵ | 21 ⁷ | 20 ⁴⁰ | 18 ⁰ | 21 ⁵⁹ |
| M 11 | 21 18 49 | 18 ³⁷ 04 | 8 ^{II} 42 | 1 ^{III} 18 | 25 ²⁶ | 25 ³⁸ | 20 ³⁰ | 13 ²⁸ | 2 ³³ | 18 ²⁸ | 22 ²⁵ | 21 ⁰ | 20 ³⁷ | 18 ⁶ | 22 ² |
| T 12 | 21 22 45 | 19 ³⁴ 36 | 21 ²⁵ | 3 ⁶ | 25 ¹⁵ | 26 ¹⁶ | 20 ⁴² | 13 ²⁹ | 2 ³¹ | 18 ³⁰ | 22 ²⁴ | 20 ⁵² | 20 ³³ | 18 ¹³ | 22 ⁶ |
| W 13 | 21 26 42 | 20 ³² 09 | 4 ^{II} 29 | 4 ⁵³ | 25 ⁵ | 26 ⁵⁴ | 20 ⁵³ | 13 ³⁰ | 2 ²⁸ | 18 ³³ | 22 ²⁴ | 20 ⁴¹ | 20 ³⁰ | 18 ²⁰ | 22 ⁹ |
| T 14 | 21 30 38 | 21 ²⁹ 43 | 17 ⁵² | 6 ³⁸ | 24 ⁵⁸ | 27 ³¹ | 21 ⁵ | 13 ³² | 2 ²⁶ | 18 ³⁵ | 22 ²³ | 20 ²⁹ | 20 ²⁷ | 18 ²⁶ | 22 ¹² |
| F 15 | 21 34 35 | 22 ²⁷ 18 | 1 ^{II} 33 | 8 ²² | 24 ⁵³ | 28 ⁹ | 21 ¹⁸ | 13 ³³ | 2 ²⁴ | 18 ³⁷ | 22 ²³ | 20 ¹⁷ | 20 ²⁴ | 18 ³³ | 22 ¹⁵ |
| S 16 | 21 38 31 | 23 ²⁴ 55 | 15 ²⁸ | 10 ⁴ | 24 ^D 51 | 28 ⁴⁷ | 21 ³⁰ | 13 ³⁴ | 2 ²¹ | 18 ³⁹ | 22 ²² | 20 ⁶ | 20 ²¹ | 18 ⁴⁰ | 22 ¹⁸ |
| S 17 | 21 42 28 | 24 ²² 33 | 29 ³³ | 11 ⁴⁵ | 24 ⁵¹ | 29 ²⁵ | 21 ⁴² | 13 ³⁵ | 2 ¹⁹ | 18 ⁴¹ | 22 ²² | 19 ⁵⁷ | 20 ¹⁷ | 18 ⁴⁶ | 22 ²¹ |
| M 18 | 21 46 24 | 25 ²⁰ 12 | 13 ^V 44 | 13 ²⁴ | 24 ⁵³ | 0 ^{II} 3 | 21 ⁵⁴ | 13 ³⁶ | 2 ¹⁷ | 18 ⁴⁴ | 22 ²¹ | 19 ⁵¹ | 20 ¹⁴ | 18 ⁵³ | 22 ²⁴ |
| T 19 | 21 50 21 | 26 ¹⁷ 52 | 27 ⁵⁶ | 15 ² | 24 ⁵⁸ | 0 ⁴¹ | 22 ⁶ | 13 ³⁷ | 2 ¹⁴ | 18 ⁴⁶ | 22 ²¹ | 19 ⁴⁸ | 20 ¹¹ | 18 ⁵⁹ | 22 ²⁷ |
| W 20 | 21 54 18 | 27 ¹⁵ 35 | 12 ^{II} 8 | 16 ³⁹ | 25 ⁵ | 1 ¹⁹ | 22 ¹⁸ | 13 ³⁷ | 2 ¹² | 18 ⁴⁸ | 22 ²⁰ | 19 ⁴⁶ | 20 ⁸ | 19 ⁶ | 22 ³⁰ |
| T 21 | 21 58 14 | 28 ¹³ 19 | 26 ¹⁶ | 18 ¹⁴ | 25 ¹⁴ | 1 ⁵⁷ | 22 ³¹ | 13 ³⁸ | 2 ¹⁰ | 18 ⁵⁰ | 22 ²⁰ | 19 ⁴⁶ | 20 ⁵ | 19 ¹³ | 22 ³³ |
| F 22 | 22 2 11 | 29 ¹¹ 05 | 10 ^{II} 21 | 19 ⁴⁷ | 25 ²⁵ | 2 ³⁵ | 22 ⁴³ | 13 ³⁸ | 2 ⁷ | 18 ⁵² | | | | | |

SWISS EPHEMERIS for the year 2087

SEPTEMBER 2087

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|--------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|
| M 1 | 22 41 36 | 8♍50'11 | 22♋37 | 4♌ 1 | 29♄ 1 | 9♌ 0 | 24♍49 | 13°R37 | 1°R43 | 19♌14 | 22°R12 | 18°R25 | 19♍30 | 20♍26 | 23♎ 0 |
| T 2 | 22 45 33 | 9°48'14 | 4♍36 | 5°18 | 29°32 | 9°39 | 25° 1 | 13♋36 | 1°K41 | 19°16 | 22°Y11 | 18♌22 | 19°27 | 20°32 | 23° 2 |
| W 3 | 22 49 29 | 10°46'18 | 16°27 | 6°33 | 0♌ 4 | 10°18 | 25°14 | 13°35 | 1°38 | 19°18 | 22°10 | 18°D21 | 19°23 | 20°39 | 23° 4 |
| T 4 | 22 53 26 | 11°44'24 | 28°14 | 7°46 | 0°37 | 10°56 | 25°27 | 13°34 | 1°36 | 19°20 | 22°10 | 18°21 | 19°20 | 20°46 | 23° 6 |
| F 5 | 22 57 22 | 12°42'31 | 10♌ 4 | 8°58 | 1°12 | 11°35 | 25°40 | 13°33 | 1°34 | 19°23 | 22° 9 | 18°R22 | 19°17 | 20°52 | 23° 8 |
| S 6 | 23 1 19 | 13°40'40 | 22° 1 | 10° 7 | 1°48 | 12°14 | 25°52 | 13°32 | 1°31 | 19°25 | 22° 8 | 18°21 | 19°14 | 20°59 | 23°10 |
| S 7 | 23 5 16 | 14°38'50 | 4♎10 | 11°15 | 2°25 | 12°53 | 26° 5 | 13°31 | 1°29 | 19°27 | 22° 7 | 18°20 | 19°11 | 21° 6 | 23°12 |
| M 8 | 23 9 12 | 15°37'02 | 16°38 | 12°20 | 3° 4 | 13°32 | 26°18 | 13°29 | 1°27 | 19°29 | 22° 6 | 18°15 | 19° 8 | 21°12 | 23°13 |
| T 9 | 23 13 9 | 16°35'15 | 29°27 | 13°23 | 3°43 | 14°11 | 26°31 | 13°28 | 1°25 | 19°31 | 22° 5 | 18° 9 | 19° 4 | 21°19 | 23°15 |
| W10 | 23 17 5 | 17°33'29 | 12♋39 | 14°23 | 4°24 | 14°51 | 26°44 | 13°26 | 1°22 | 19°33 | 22° 4 | 18° 1 | 19° 1 | 21°26 | 23°16 |
| T 11 | 23 21 2 | 18°31'46 | 26°16 | 15°21 | 5° 6 | 15°30 | 26°57 | 13°25 | 1°20 | 19°35 | 22° 3 | 17°51 | 18°58 | 21°32 | 23°18 |
| F 12 | 23 24 58 | 19°30'03 | 10♌15 | 16°17 | 5°49 | 16° 9 | 27°10 | 13°23 | 1°18 | 19°37 | 22° 3 | 17°42 | 18°55 | 21°39 | 23°19 |
| S 13 | 23 28 55 | 20°28'23 | 24°33 | 17° 9 | 6°32 | 16°48 | 27°22 | 13°21 | 1°16 | 19°39 | 22° 2 | 17°33 | 18°52 | 21°46 | 23°21 |
| S 14 | 23 32 51 | 21°26'44 | 9♍ 3 | 17°58 | 7°17 | 17°28 | 27°35 | 13°19 | 1°13 | 19°41 | 22° 1 | 17°26 | 18°48 | 21°52 | 23°22 |
| M15 | 23 36 48 | 22°25'08 | 23°39 | 18°44 | 8° 3 | 18° 7 | 27°48 | 13°17 | 1°11 | 19°43 | 22° 0 | 17°22 | 18°45 | 21°59 | 23°23 |
| T 16 | 23 40 44 | 23°23'33 | 8♌15 | 19°26 | 8°50 | 18°47 | 28° 1 | 13°15 | 1° 9 | 19°45 | 21°59 | 17°19 | 18°42 | 22° 5 | 23°24 |
| W17 | 23 44 41 | 24°22'01 | 22°45 | 20° 5 | 9°37 | 19°26 | 28°14 | 13°13 | 1° 7 | 19°46 | 21°58 | 17°D19 | 18°39 | 22°12 | 23°25 |
| T 18 | 23 48 38 | 25°20'30 | 7♎ 5 | 20°39 | 10°25 | 20° 6 | 28°27 | 13°10 | 1° 5 | 19°48 | 21°57 | 17°20 | 18°36 | 22°19 | 23°26 |
| F 19 | 23 52 34 | 26°19'02 | 21°14 | 21° 9 | 11°14 | 20°45 | 28°40 | 13° 8 | 1° 3 | 19°50 | 21°56 | 17°R21 | 18°33 | 22°25 | 23°27 |
| S 20 | 23 56 31 | 27°17'37 | 5♄ 9 | 21°34 | 12° 4 | 21°25 | 28°53 | 13° 5 | 1° 1 | 19°52 | 21°55 | 17°21 | 18°29 | 22°32 | 23°28 |
| S 21 | 0 0 27 | 28°16'13 | 18°52 | 21°54 | 12°55 | 22° 5 | 29° 6 | 13° 3 | 0°59 | 19°54 | 21°54 | 17°19 | 18°26 | 22°39 | 23°29 |
| M22 | 0 4 24 | 29°14'52 | 2♌22 | 22° 8 | 13°46 | 22°45 | 29°19 | 13° 0 | 0°57 | 19°56 | 21°53 | 17°15 | 18°23 | 22°45 | 23°29 |
| T 23 | 0 8 20 | 0♌13'32 | 15°39 | 22°17 | 14°38 | 23°24 | 29°32 | 12°57 | 0°55 | 19°58 | 21°51 | 17° 9 | 18°20 | 22°52 | 23°30 |
| W24 | 0 12 17 | 1°12'15 | 28°43 | 22°R19 | 15°31 | 24° 4 | 29°45 | 12°54 | 0°53 | 19°59 | 21°50 | 17° 1 | 18°17 | 22°59 | 23°31 |
| T 25 | 0 16 13 | 2°11'00 | 11♍34 | 22°14 | 16°24 | 24°44 | 29°58 | 12°51 | 0°51 | 20° 1 | 21°49 | 16°53 | 18°14 | 23° 5 | 23°31 |
| F 26 | 0 20 10 | 3° 9'47 | 24°12 | 22° 3 | 17°18 | 25°24 | 0♌11 | 12°48 | 0°49 | 20° 3 | 21°48 | 16°45 | 18°10 | 23°12 | 23°31 |
| S 27 | 0 24 7 | 4° 8'36 | 6♌37 | 21°44 | 18°13 | 26° 4 | 0°24 | 12°45 | 0°47 | 20° 5 | 21°47 | 16°38 | 18° 7 | 23°19 | 23°32 |
| S 28 | 0 28 3 | 5° 7'27 | 18°50 | 21°18 | 19° 8 | 26°44 | 0°37 | 12°42 | 0°45 | 20° 6 | 21°46 | 16°33 | 18° 4 | 23°25 | 23°32 |
| M29 | 0 32 0 | 6° 6'20 | 0♍53 | 20°45 | 20° 4 | 27°25 | 0°50 | 12°39 | 0°43 | 20° 8 | 21°45 | 16°30 | 18° 1 | 23°32 | 23°32 |
| T 30 | 0 35 56 | 7♌ 5'15 | 12♍47 | 20♌ 4 | 21♌ 0 | 28♌ 5 | 1♌ 3 | 12♋35 | 0°K41 | 20♌10 | 21°Y44 | 16°D28 | 17♍58 | 23♍39 | 23♎32 |

Delta T = 191.68 sec.

OCTOBER 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|--------|-------|-------|------|--------|-------|-------|--------|--------|-------|-------|--------|
| W 1 | 0 39 53 | 8♌ 4'12 | 24♍35 | 19°R17 | 21♌57 | 28♌45 | 1♌16 | 12°R32 | 0°R40 | 20♌11 | 21°R43 | 16♍29 | 17♍54 | 23♍45 | 23°R32 |
| T 2 | 0 43 49 | 9° 3'11 | 6♌22 | 18♌22 | 22°54 | 29°25 | 1°29 | 12♋28 | 0°K38 | 20°13 | 21°Y42 | 16°30 | 17°51 | 23°52 | 23°R32 |
| F 3 | 0 47 46 | 10° 2'11 | 18°10 | 17°23 | 23°52 | 0♍ 6 | 1°42 | 12°25 | 0°36 | 20°14 | 21°41 | 16°32 | 17°48 | 23°58 | 23°32 |
| S 4 | 0 51 42 | 11° 1'13 | 0♎ 6 | 16°18 | 24°50 | 0°46 | 1°55 | 12°21 | 0°35 | 20°16 | 21°39 | 16°33 | 17°45 | 24° 5 | 23°32 |
| S 5 | 0 55 39 | 12° 0'17 | 12°14 | 15°10 | 25°49 | 1°27 | 2° 7 | 12°17 | 0°33 | 20°18 | 21°38 | 16°R34 | 17°42 | 24°12 | 23°32 |
| M 6 | 0 59 36 | 12°59'23 | 24°39 | 14° 1 | 26°48 | 2° 7 | 2°20 | 12°13 | 0°31 | 20°19 | 21°37 | 16°33 | 17°39 | 24°18 | 23°31 |
| T 7 | 1 3 32 | 13°58'30 | 7♋25 | 12°52 | 27°48 | 2°48 | 2°33 | 12° 9 | 0°30 | 20°21 | 21°36 | 16°31 | 17°35 | 24°25 | 23°31 |
| W 8 | 1 7 29 | 14°57'40 | 20°37 | 11°44 | 28°48 | 3°29 | 2°46 | 12° 5 | 0°28 | 20°22 | 21°35 | 16°27 | 17°32 | 24°32 | 23°30 |
| T 9 | 1 11 25 | 15°56'51 | 4♌16 | 10°41 | 29°48 | 4° 9 | 2°59 | 12° 1 | 0°27 | 20°23 | 21°34 | 16°23 | 17°29 | 24°38 | 23°30 |
| F 10 | 1 15 22 | 16°56'03 | 18°21 | 9°43 | 0♍49 | 4°50 | 3°12 | 11°57 | 0°25 | 20°25 | 21°33 | 16°19 | 17°26 | 24°45 | 23°29 |
| S 11 | 1 19 18 | 17°55'18 | 2°Y50 | 8°53 | 1°50 | 5°31 | 3°24 | 11°53 | 0°24 | 20°26 | 21°31 | 16°14 | 17°23 | 24°52 | 23°28 |
| S 12 | 1 23 15 | 18°54'35 | 17°37 | 8°11 | 2°52 | 6°12 | 3°37 | 11°49 | 0°23 | 20°28 | 21°30 | 16°11 | 17°20 | 24°58 | 23°27 |
| M13 | 1 27 11 | 19°53'53 | 2♋35 | 7°39 | 3°54 | 6°53 | 3°50 | 11°45 | 0°21 | 20°29 | 21°29 | 16° 9 | 17°16 | 25° 5 | 23°27 |
| T 14 | 1 31 8 | 20°53'14 | 17°34 | 7°18 | 4°56 | 7°34 | 4° 3 | 11°40 | 0°20 | 20°30 | 21°28 | 16°D 9 | 17°13 | 25°12 | 23°26 |
| W15 | 1 35 5 | 21°52'37 | 2♎28 | 7°D 7 | 5°59 | 8°15 | 4°15 | 11°36 | 0°19 | 20°31 | 21°27 | 16°10 | 17°10 | 25°18 | 23°25 |
| T 16 | 1 39 1 | 22°52'03 | 17° 9 | 7° 8 | 7° 2 | 8°56 | 4°28 | 11°32 | 0°18 | 20°33 | 21°26 | 16°11 | 17° 7 | 25°25 | 23°24 |
| F 17 | 1 42 58 | 23°51'30 | 1♄32 | 7°19 | 8° 5 | 9°37 | 4°41 | 11°27 | 0°17 | 20°34 | 21°25 | 16°12 | 17° 4 | 25°31 | 23°22 |
| S 18 | 1 46 54 | 24°51'00 | 15°35 | 7°41 | 9° 9 | 10°18 | 4°53 | 11°23 | 0°15 | 20°35 | 21°23 | 16°13 | 17° 0 | 25°38 | 23°21 |
| S 19 | 1 50 51 | 25°50'32 | 29°17 | 8°13 | 10°13 | 10°59 | 5° 6 | 11°18 | 0°14 | 20°36 | 21°22 | 16°R13 | 16°57 | 25°45 | 23°20 |
| M20 | 1 54 47 | 26°50'07 | 12♌39 | 8°53 | 11°18 | 11°41 | 5°18 | 11°13 | 0°13 | 20°37 | 21°21 | 16°13 | 16°54 | 25°51 | 23°18 |
| T 21 | 1 58 44 | 27°49'44 | 25°43 | 9°42 | 12°22 | 12°22 | 5°31 | 11° 9 | 0°12 | 20°39 | 21°20 | 16°11 | 16°51 | 25°58 | 23°17 |
| W22 | 2 2 40 | 28°49'23 | 8♍30 | 10°39 | 13°27 | 13° 4 | 5°43 | 11° 4 | 0°12 | 20°40 | 21°19 | 16° 9 | 16°48 | 26° 5 | 23°15 |
| T 23 | 2 6 37 | 29°49'04 | 21° 3 | 11°43 | 14°32 | 13°45 | 5°56 | 10°59 | 0°11 | 20°41 | 21°18 | 16° 6 | 16°45 | 26°11 | 23°14 |
| F 24 | 2 10 34 | 0♍48'47 | 3♌23 | 12°52 | 15°38 | 14°27 | 6° 8 | 10°55 | 0°10 | 20°42 | 21°16 | 16° 4 | 16°41 | 26°18 | 23°12 |
| S 25 | 2 14 30 | 1°48'33 | 15°33 | 14° 7 | 16°44 | 15° 8 | 6°20 | 10°50 | 0° 9 | 20°43 | 21°15 | 16° 2 | 16°38 | 26°25 | 23°10 |
| S 26 | 2 18 27 | 2°48'20 | 27°34 | 15°26 | 17°50 | 15°50 | 6°33 | 10°45 | 0° 8 | 20°44 | 21°14 | 16° 0 | 16°35 | 26°31 | 23° 9 |
| M27 | 2 22 23 | 3°48'10 | 9♍29 | 16°49 | 18°56 | 16°32 | 6°45 | 10°40 | 0° 8 | 20°45 | 21°13 | 16° 0 | 16°32 | 26°38 | 23° 7 |
| T 28 | 2 26 20 | 4°48'01 | 21°18 | 18°15 | 20° 2 | 17°13 | 6°57 | 10°36 | 0° 7 | 20°45 | 21°12 | 16°D 0 | 16°29 | 26°45 | 23° 5 |
| W29 | 2 30 16 | 5°47'55 | 3♌ 5 | 19°43 | 21° 9 | 17°55 | 7° 9 | 10°31 | 0° 7 | 20°46 | 21°11 | 16° 0 | 16°25 | 26°51 | 23° 3 |
| T 30 | 2 34 13 | 6°47'50 | 14°52 | 21°14 | 22°16 | 18°37 | 7°21 | 10°26 | 0° 6 | 20°47 | 21°10 | 16° 1 | 16°22 | 26°58 | 23° 1 |
| F 31 | 2 38 9 | 7♍47'47 | 26♌42 | 22♌47 | 23♍23 | 19♍19 | 7♌34 | 10♋21 | 0°K 6 | 20♌48 | 21°Y 9 | 16♍ 2 | 16♍19 | 27♍ 5 | 22♎59 |

Delta T = 191.84 sec.

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SWISS EPHEMERIS for the year 2087

NOVEMBER 2087

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|--------|-------|-------|-------|-------|--------|-------|--------|--------|--------|-------|-------|--------|
| S 1 | 2 42 6 | 8♁47'46 | 8♁39 | 24♁21 | 24♁31 | 20♁1 | 7♁46 | 10°R16 | 0°R 5 | 20♁249 | 21°R 8 | 16♁3 | 16♁16 | 27♁11 | 22°R57 |
| S 2 | 2 46 2 | 9°47'46 | 20°46 | 25°57 | 25°38 | 20°43 | 7°58 | 10♁12 | 0°R 5 | 20°49 | 21°R 6 | 16° 3 | 16°13 | 27°18 | 22°R54 |
| M 3 | 2 49 59 | 10°47'48 | 3♁8 | 27°33 | 26°46 | 21°25 | 8° 9 | 10° 7 | 0° 4 | 20°50 | 21° 5 | 16° 4 | 16°10 | 27°24 | 22°52 |
| T 4 | 2 53 56 | 11°47'52 | 15°50 | 29°10 | 27°54 | 22° 7 | 8°21 | 10° 2 | 0° 4 | 20°51 | 21° 4 | 16°R 4 | 16° 6 | 27°31 | 22°50 |
| W 5 | 2 57 52 | 12°47'57 | 28°54 | 0♁47 | 29° 2 | 22°49 | 8°33 | 9°57 | 0° 4 | 20°51 | 21° 3 | 16° 4 | 16° 3 | 27°38 | 22°47 |
| T 6 | 3 1 49 | 13°48'04 | 12♁25 | 2°25 | 0♁11 | 23°32 | 8°45 | 9°52 | 0° 4 | 20°52 | 21° 2 | 16° 3 | 16° 0 | 27°44 | 22°45 |
| F 7 | 3 5 45 | 14°48'12 | 26°23 | 4° 3 | 1°19 | 24°14 | 8°56 | 9°47 | 0° 4 | 20°53 | 21° 1 | 16° 3 | 15°57 | 27°51 | 22°42 |
| S 8 | 3 9 42 | 15°48'21 | 10°V48 | 5°41 | 2°28 | 24°56 | 9° 8 | 9°43 | 0° 3 | 20°53 | 21° 0 | 16°D 3 | 15°54 | 27°58 | 22°40 |
| S 9 | 3 13 38 | 16°48'33 | 25°35 | 7°19 | 3°37 | 25°39 | 9°20 | 9°38 | 0°D 3 | 20°54 | 20°59 | 16° 3 | 15°51 | 28° 4 | 22°37 |
| M10 | 3 17 35 | 17°48'46 | 10♁40 | 8°57 | 4°46 | 26°21 | 9°31 | 9°33 | 0° 3 | 20°54 | 20°58 | 16°R 3 | 15°47 | 28°11 | 22°34 |
| T 11 | 3 21 31 | 18°49'00 | 25°53 | 10°34 | 5°55 | 27° 4 | 9°43 | 9°28 | 0° 4 | 20°54 | 20°57 | 16° 3 | 15°44 | 28°18 | 22°31 |
| W12 | 3 25 28 | 19°49'17 | 11♁5 | 12°12 | 7° 5 | 27°46 | 9°54 | 9°24 | 0° 4 | 20°55 | 20°56 | 16° 3 | 15°41 | 28°24 | 22°29 |
| T 13 | 3 29 25 | 20°49'35 | 26° 6 | 13°50 | 8°14 | 28°29 | 10° 5 | 9°19 | 0° 4 | 20°55 | 20°55 | 16° 3 | 15°38 | 28°31 | 22°26 |
| F 14 | 3 33 21 | 21°49'56 | 10♁48 | 15°27 | 9°24 | 29°12 | 10°16 | 9°14 | 0° 4 | 20°56 | 20°54 | 16° 2 | 15°35 | 28°38 | 22°23 |
| S 15 | 3 37 18 | 22°50'18 | 25° 6 | 17° 4 | 10°34 | 29°54 | 10°28 | 9° 9 | 0° 4 | 20°56 | 20°53 | 16° 1 | 15°31 | 28°44 | 22°20 |
| S 16 | 3 41 14 | 23°50'42 | 8♁58 | 18°41 | 11°44 | 0♁37 | 10°39 | 9° 5 | 0° 5 | 20°56 | 20°52 | 16° 1 | 15°28 | 28°51 | 22°17 |
| M17 | 3 45 11 | 24°51'08 | 22°24 | 20°17 | 12°54 | 1°20 | 10°50 | 9° 0 | 0° 5 | 20°56 | 20°51 | 16°D 0 | 15°25 | 28°58 | 22°14 |
| T 18 | 3 49 7 | 25°51'36 | 5♁25 | 21°54 | 14° 5 | 2° 3 | 11° 1 | 8°56 | 0° 6 | 20°56 | 20°50 | 16° 1 | 15°22 | 29° 4 | 22°11 |
| W19 | 3 53 4 | 26°52'05 | 18° 5 | 23°30 | 15°15 | 2°46 | 11°11 | 8°51 | 0° 6 | 20°57 | 20°49 | 16° 1 | 15°19 | 29°11 | 22° 8 |
| T 20 | 3 57 0 | 27°52'37 | 0♁28 | 25° 5 | 16°26 | 3°29 | 11°22 | 8°47 | 0° 7 | 20°57 | 20°49 | 16° 2 | 15°16 | 29°17 | 22° 5 |
| F 21 | 4 0 57 | 28°53'10 | 12°37 | 26°41 | 17°37 | 4°12 | 11°33 | 8°42 | 0° 7 | 20°57 | 20°48 | 16° 3 | 15°12 | 29°24 | 22° 1 |
| S 22 | 4 4 54 | 29°53'45 | 24°36 | 28°16 | 18°48 | 4°55 | 11°43 | 8°38 | 0° 8 | 20°57 | 20°47 | 16° 5 | 15° 9 | 29°31 | 21°58 |
| S 23 | 4 8 50 | 0♁54'21 | 6♁28 | 29°52 | 19°59 | 5°38 | 11°54 | 8°34 | 0° 8 | 20°R57 | 20°46 | 16° 5 | 15° 6 | 29°37 | 21°55 |
| M24 | 4 12 47 | 1°54'59 | 18°16 | 1♁26 | 21°10 | 6°21 | 12° 4 | 8°30 | 0° 9 | 20°57 | 20°45 | 16°R 6 | 15° 3 | 29°44 | 21°52 |
| T 25 | 4 16 43 | 2°55'39 | 0♁4 | 3° 1 | 22°21 | 7° 5 | 12°15 | 8°25 | 0°10 | 20°57 | 20°44 | 16° 5 | 15° 0 | 29°51 | 21°48 |
| W26 | 4 20 40 | 3°56'20 | 11°52 | 4°36 | 23°33 | 7°48 | 12°25 | 8°21 | 0°11 | 20°57 | 20°44 | 16° 4 | 14°57 | 29°57 | 21°45 |
| T 27 | 4 24 36 | 4°57'03 | 23°43 | 6°10 | 24°44 | 8°31 | 12°35 | 8°17 | 0°12 | 20°57 | 20°43 | 16° 1 | 14°53 | 0♁4 | 21°41 |
| F 28 | 4 28 33 | 5°57'46 | 5♁39 | 7°45 | 25°56 | 9°15 | 12°45 | 8°13 | 0°13 | 20°56 | 20°42 | 15°58 | 14°50 | 0°11 | 21°38 |
| S 29 | 4 32 29 | 6°58'31 | 17°42 | 9°19 | 27° 8 | 9°58 | 12°55 | 8° 9 | 0°14 | 20°56 | 20°41 | 15°54 | 14°47 | 0°17 | 21°35 |
| S 30 | 4 36 26 | 7♁59'17 | 29♁55 | 10♁53 | 28♁19 | 10♁42 | 13♁5 | 8♁5 | 0°R15 | 20♁56 | 20°V41 | 15♁51 | 14♁44 | 0♁24 | 21♁31 |

Delta T = 192.01 sec.

DECEMBER 2087

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|------|--------|
| M 1 | 4 40 23 | 9♁0'04 | 12♁20 | 12♁27 | 29♁31 | 11♁26 | 13♁15 | 8°R 2 | 0°R16 | 20°R56 | 20°R40 | 15°R48 | 14♁41 | 0♁31 | 21°R28 |
| T 2 | 4 44 19 | 10° 0'52 | 25° 0 | 14° 1 | 0♁43 | 12° 9 | 13°24 | 7♁58 | 0°17 | 20°R56 | 20°V39 | 15♁46 | 14°37 | 0°37 | 21°R24 |
| W 3 | 4 48 16 | 11° 1'41 | 7♁59 | 15°35 | 1°55 | 12°53 | 13°34 | 7°54 | 0°18 | 20°55 | 20°38 | 15°D45 | 14°34 | 0°44 | 21°20 |
| T 4 | 4 52 12 | 12° 2'31 | 21°19 | 17° 8 | 3° 7 | 13°37 | 13°43 | 7°51 | 0°19 | 20°55 | 20°38 | 15°45 | 14°31 | 0°51 | 21°17 |
| F 5 | 4 56 9 | 13° 3'21 | 5°V 3 | 18°42 | 4°20 | 14°21 | 13°53 | 7°47 | 0°21 | 20°54 | 20°37 | 15°46 | 14°28 | 0°57 | 21°13 |
| S 6 | 5 0 5 | 14° 4'13 | 19°12 | 20°16 | 5°32 | 15° 4 | 14° 2 | 7°44 | 0°22 | 20°54 | 20°36 | 15°48 | 14°25 | 1° 4 | 21°10 |
| S 7 | 5 4 2 | 15° 5'05 | 3♁46 | 21°49 | 6°44 | 15°48 | 14°11 | 7°40 | 0°23 | 20°54 | 20°36 | 15°49 | 14°22 | 1°11 | 21° 6 |
| M 8 | 5 7 58 | 16° 5'58 | 18°39 | 23°23 | 7°57 | 16°32 | 14°20 | 7°37 | 0°25 | 20°53 | 20°35 | 15°R50 | 14°18 | 1°17 | 21° 2 |
| T 9 | 5 11 55 | 17° 6'52 | 3♁47 | 24°57 | 9°10 | 17°16 | 14°29 | 7°34 | 0°26 | 20°53 | 20°35 | 15°49 | 14°15 | 1°24 | 20°59 |
| W10 | 5 15 52 | 18° 7'47 | 19° 0 | 26°30 | 10°22 | 18° 0 | 14°38 | 7°31 | 0°28 | 20°52 | 20°34 | 15°46 | 14°12 | 1°30 | 20°55 |
| T 11 | 5 19 48 | 19° 8'43 | 4♁9 | 28° 4 | 11°35 | 18°44 | 14°47 | 7°28 | 0°29 | 20°51 | 20°34 | 15°42 | 14° 9 | 1°37 | 20°52 |
| F 12 | 5 23 45 | 20° 9'40 | 19° 4 | 29°38 | 12°48 | 19°29 | 14°55 | 7°25 | 0°31 | 20°51 | 20°33 | 15°36 | 14° 6 | 1°44 | 20°48 |
| S 13 | 5 27 41 | 21°10'37 | 3♁36 | 1♁11 | 14° 1 | 20°13 | 15° 4 | 7°22 | 0°33 | 20°50 | 20°33 | 15°31 | 14° 3 | 1°50 | 20°44 |
| S 14 | 5 31 38 | 22°11'36 | 17°40 | 2°45 | 15°14 | 20°57 | 15°12 | 7°19 | 0°34 | 20°50 | 20°32 | 15°26 | 13°59 | 1°57 | 20°41 |
| M15 | 5 35 34 | 23°12'36 | 1♁16 | 4°19 | 16°27 | 21°41 | 15°20 | 7°17 | 0°36 | 20°49 | 20°32 | 15°22 | 13°56 | 2° 4 | 20°37 |
| T 16 | 5 39 31 | 24°13'37 | 14°23 | 5°52 | 17°40 | 22°26 | 15°28 | 7°14 | 0°38 | 20°48 | 20°31 | 15°20 | 13°53 | 2°10 | 20°33 |
| W17 | 5 43 28 | 25°14'39 | 27° 5 | 7°25 | 18°53 | 23°10 | 15°36 | 7°12 | 0°40 | 20°47 | 20°31 | 15°D19 | 13°50 | 2°17 | 20°30 |
| T 18 | 5 47 24 | 26°15'42 | 9♁25 | 8°59 | 20° 6 | 23°55 | 15°44 | 7° 9 | 0°42 | 20°46 | 20°30 | 15°20 | 13°47 | 2°24 | 20°26 |
| F 19 | 5 51 21 | 27°16'45 | 21°30 | 10°32 | 21°19 | 24°39 | 15°52 | 7° 7 | 0°44 | 20°46 | 20°30 | 15°22 | 13°43 | 2°30 | 20°22 |
| S 20 | 5 55 17 | 28°17'50 | 3♁24 | 12° 5 | 22°33 | 25°24 | 15°59 | 7° 5 | 0°46 | 20°45 | 20°30 | 15°23 | 13°40 | 2°37 | 20°19 |
| S 21 | 5 59 14 | 29°18'56 | 15°12 | 13°37 | 23°46 | 26° 8 | 16° 7 | 7° 3 | 0°48 | 20°44 | 20°29 | 15°R24 | 13°37 | 2°44 | 20°15 |
| M22 | 6 3 10 | 0♁20'02 | 26°58 | 15° 9 | 25° 0 | 26°53 | 16°14 | 7° 1 | 0°50 | 20°43 | 20°29 | 15°23 | 13°34 | 2°50 | 20°12 |
| T 23 | 6 7 7 | 1°21'09 | 8♁46 | 16°41 | 26°13 | 27°38 | 16°21 | 6°59 | 0°52 | 20°42 | 20°29 | 15°20 | 13°31 | 2°57 | 20° 8 |
| W24 | 6 11 3 | 2°22'17 | 20°38 | 18°12 | 27°27 | 28°22 | 16°28 | 6°58 | 0°54 | 20°41 | 20°29 | 15°15 | 13°28 | 3° 4 | 20° 5 |
| T 25 | 6 15 0 | 3°23'25 | 2♁37 | 19°42 | 28°40 | 29° 7 | 16°35 | 6°56 | 0°56 | 20°40 | 20°28 | 15° 8 | 13°24 | 3°10 | 20° 1 |
| F 26 | 6 18 57 | 4°24'33 | 14°43 | 21°11 | 29°54 | 29°52 | 16°42 | 6°54 | 0°58 | 20°39 | 20°28 | 14°58 | 13°21 | 3°17 | 19°57 |
| S 27 | 6 22 53 | 5°25'42 | 26°59 | 22°39 | 1♁8 | 0♁37 | 16°48 | 6°53 | 1° 1 | 20°38 | 20°28 | 14°48 | 13°18 | 3°24 | 19°54 |
| S 28 | 6 26 50 | 6°26'51 | 9♁25 | 24° 5 | 2°21 | 1°22 | 16°55 | 6°52 | 1° 3 | 20°37 | 20°28 | 14°38 | 13°15 | 3°30 | 19°50 |
| M29 | 6 30 46 | 7°28'00 | 22° 2 | 25°30 | 3°35 | 2° 7 | 17° 1 | 6°51 | 1° 5 | 20°36 | 20°28 | 14°29 | 13°12 | 3°37 | 19°47 |
| T 30 | 6 34 43 | 8°29'09 | 4♁51 | 26°53 | 4°49 | 2°52 | 17° 7 | 6°50 | 1° 8 | 20°35 | 20°28 | 14°22 | 13° 9 | 3°44 | 19°44 |
| W31 | 6 38 39 | 9♁30'18 | 17♁53 | 28♁13 | 6♁3 | 3♁37 | 17♁13 | 6♁49 | 1♁10 | 20♁33 | 20°V27 | 14♁17 | 13♁5 | 3♁50 | 19♁40 |

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