

SWISS Éphémérides pour l'année 1988 à 00h00 TU

Janvier 1988

00:00 UT

| Jour | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|--------|-------|-------|--------|---|
| F 1 | 6 39 30 | 9♁46'31 | 5♂ 0 | 14♁51 | 12♁ 1 | 24♂56 | 20♂14 | 25♁28 | 27♁40 | 7♁47 | 12♂ 0 | 26°R42 | 27♂10 | 15♂ 8 | 25°R 9 | |
| S 2 | 6 43 27 | 10°47'39 | 17°31 | 16°29 | 13°14 | 25°35 | 20°18 | 25°35 | 27°43 | 7°49 | 12° 1 | 26°R30 | 27° 7 | 15°15 | 25♂ 5 | |
| S 3 | 6 47 23 | 11°48'48 | 29°52 | 18° 6 | 14°28 | 26°15 | 20°21 | 25°42 | 27°47 | 7°52 | 12° 3 | 26°17 | 27° 4 | 15°21 | 25° 2 | |
| M 4 | 6 51 20 | 12°49'56 | 12♁ 3 | 19°44 | 15°42 | 26°55 | 20°25 | 25°49 | 27°50 | 7°54 | 12° 4 | 26° 3 | 27° 1 | 15°28 | 24°58 | |
| T 5 | 6 55 16 | 13°51'04 | 24° 7 | 21°23 | 16°56 | 27°35 | 20°29 | 25°56 | 27°54 | 7°56 | 12° 6 | 25°50 | 26°57 | 15°35 | 24°55 | |
| W 6 | 6 59 13 | 14°52'13 | 6♂ 4 | 23° 1 | 18°10 | 28°15 | 20°33 | 26° 2 | 27°58 | 7°59 | 12° 7 | 25°38 | 26°54 | 15°41 | 24°51 | |
| T 7 | 7 3 10 | 15°53'21 | 17°55 | 24°40 | 19°23 | 28°55 | 20°38 | 26° 9 | 28° 1 | 8° 1 | 12° 9 | 25°29 | 26°51 | 15°48 | 24°48 | |
| F 8 | 7 7 6 | 16°54'29 | 29°43 | 26°19 | 20°37 | 29°34 | 20°42 | 26°16 | 28° 5 | 8° 3 | 12°10 | 25°23 | 26°48 | 15°55 | 24°44 | |
| S 9 | 7 11 3 | 17°55'37 | 11♂31 | 27°58 | 21°50 | 0♁14 | 20°47 | 26°23 | 28° 8 | 8° 5 | 12°11 | 25°20 | 26°45 | 16° 1 | 24°41 | |
| S 10 | 7 14 59 | 18°56'45 | 23°23 | 29°37 | 23° 4 | 0°54 | 20°52 | 26°30 | 28°11 | 8° 8 | 12°12 | 25°D19 | 26°41 | 16° 8 | 24°38 | |
| M11 | 7 18 56 | 19°57'54 | 5♁23 | 1♁17 | 24°17 | 1°34 | 20°57 | 26°36 | 28°15 | 8°10 | 12°14 | 25°19 | 26°38 | 16°15 | 24°34 | |
| T 12 | 7 22 52 | 20°59'02 | 17°37 | 2°56 | 25°31 | 2°14 | 21° 3 | 26°43 | 28°18 | 8°12 | 12°15 | 25°R20 | 26°35 | 16°21 | 24°31 | |
| W13 | 7 26 49 | 22° 0'10 | 0♂11 | 4°34 | 26°44 | 2°54 | 21° 8 | 26°50 | 28°22 | 8°14 | 12°16 | 25°19 | 26°32 | 16°28 | 24°28 | |
| T 14 | 7 30 45 | 23° 1'18 | 13° 9 | 6°13 | 27°58 | 3°34 | 21°14 | 26°56 | 28°25 | 8°16 | 12°17 | 25°17 | 26°29 | 16°35 | 24°25 | |
| F 15 | 7 34 42 | 24° 2'26 | 26°35 | 7°50 | 29°11 | 4°14 | 21°20 | 27° 3 | 28°29 | 8°19 | 12°18 | 25°13 | 26°26 | 16°41 | 24°21 | |
| S 16 | 7 38 39 | 25° 3'34 | 10♁31 | 9°28 | 0♁24 | 4°54 | 21°26 | 27°10 | 28°32 | 8°21 | 12°19 | 25° 6 | 26°22 | 16°48 | 24°18 | |
| S 17 | 7 42 35 | 26° 4'42 | 24°56 | 11° 4 | 1°37 | 5°34 | 21°32 | 27°16 | 28°35 | 8°23 | 12°20 | 24°58 | 26°19 | 16°55 | 24°15 | |
| M18 | 7 46 32 | 27° 5'50 | 9♁47 | 12°39 | 2°51 | 6°14 | 21°39 | 27°23 | 28°39 | 8°25 | 12°21 | 24°48 | 26°16 | 17° 1 | 24°12 | |
| T 19 | 7 50 28 | 28° 6'57 | 24°54 | 14°12 | 4° 4 | 6°54 | 21°45 | 27°29 | 28°42 | 8°27 | 12°22 | 24°39 | 26°13 | 17° 8 | 24° 9 | |
| W20 | 7 54 25 | 29° 8'03 | 10♁ 9 | 15°43 | 5°17 | 7°34 | 21°52 | 27°35 | 28°45 | 8°30 | 12°23 | 24°31 | 26°10 | 17°15 | 24° 6 | |
| T 21 | 7 58 21 | 0♁ 9'09 | 25°20 | 17°12 | 6°30 | 8°14 | 21°59 | 27°42 | 28°48 | 8°32 | 12°24 | 24°25 | 26° 7 | 17°21 | 24° 4 | |
| F 22 | 8 2 18 | 1°10'14 | 10♁17 | 18°39 | 7°43 | 8°54 | 22° 6 | 27°48 | 28°52 | 8°34 | 12°25 | 24°22 | 26° 3 | 17°28 | 24° 1 | |
| S 23 | 8 6 14 | 2°11'18 | 24°55 | 20° 1 | 8°55 | 9°35 | 22°13 | 27°54 | 28°55 | 8°36 | 12°26 | 24°D21 | 26° 0 | 17°35 | 23°58 | |
| S 24 | 8 10 11 | 3°12'21 | 9♂ 7 | 21°20 | 10° 8 | 10°15 | 22°20 | 28° 1 | 28°58 | 8°38 | 12°27 | 24°22 | 25°57 | 17°41 | 23°55 | |
| M25 | 8 14 8 | 4°13'23 | 22°55 | 22°34 | 11°21 | 10°55 | 22°28 | 28° 7 | 29° 1 | 8°40 | 12°27 | 24°23 | 25°54 | 17°48 | 23°53 | |
| T 26 | 8 18 4 | 5°14'24 | 6♁19 | 23°43 | 12°34 | 11°35 | 22°36 | 28°13 | 29° 4 | 8°42 | 12°28 | 24°R24 | 25°51 | 17°55 | 23°50 | |
| W27 | 8 22 1 | 6°15'24 | 19°21 | 24°45 | 13°46 | 12°15 | 22°44 | 28°19 | 29° 7 | 8°44 | 12°29 | 24°23 | 25°47 | 18° 2 | 23°48 | |
| T 28 | 8 25 57 | 7°16'22 | 2♂ 5 | 25°41 | 14°59 | 12°55 | 22°52 | 28°25 | 29°10 | 8°46 | 12°30 | 24°20 | 25°44 | 18° 8 | 23°45 | |
| F 29 | 8 29 54 | 8°17'20 | 14°34 | 26°28 | 16°11 | 13°35 | 23° 0 | 28°31 | 29°13 | 8°48 | 12°30 | 24°14 | 25°41 | 18°15 | 23°43 | |
| S 30 | 8 33 50 | 9°18'17 | 26°52 | 27° 7 | 17°23 | 14°15 | 23° 8 | 28°37 | 29°16 | 8°51 | 12°31 | 24° 7 | 25°38 | 18°22 | 23°41 | |
| S 31 | 8 37 47 | 10♁19'12 | 8♁59 | 27♁36 | 18♁35 | 14♁56 | 23♂16 | 28♁43 | 29♁19 | 8♁53 | 12♂31 | 23♁59 | 25♁35 | 18♂28 | 23♂39 | |

Delta T = 55.82 sec.

Février 1988

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| Jour | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|------|--------|--------|-------|-------|--------|---|
| M 1 | 8 41 43 | 11♁20'06 | 21♁ 0 | 27♁55 | 19♁48 | 15♁36 | 23♂25 | 28♁49 | 29♁22 | 8♁55 | 12♂32 | 23°R51 | 25♁32 | 18♂35 | 23°R36 | |
| T 2 | 8 45 40 | 12°20'59 | 2♂55 | 28°R 4 | 21° 0 | 16°16 | 23°34 | 28°55 | 29°25 | 8°57 | 12°32 | 23♁42 | 25°28 | 18°42 | 23♂34 | |
| W 3 | 8 49 37 | 13°21'51 | 14°47 | 28° 1 | 22°12 | 16°56 | 23°43 | 29° 1 | 29°28 | 8°58 | 12°33 | 23°35 | 25°25 | 18°48 | 23°32 | |
| T 4 | 8 53 33 | 14°22'42 | 26°36 | 27°47 | 23°23 | 17°37 | 23°52 | 29° 6 | 29°31 | 9° 0 | 12°33 | 23°30 | 25°22 | 18°55 | 23°30 | |
| F 5 | 8 57 30 | 15°23'32 | 8♂25 | 27°22 | 24°35 | 18°17 | 24° 1 | 29°12 | 29°34 | 9° 2 | 12°33 | 23°27 | 25°19 | 19° 2 | 23°28 | |
| S 6 | 9 1 26 | 16°24'21 | 20°16 | 26°47 | 25°47 | 18°57 | 24°10 | 29°18 | 29°37 | 9° 4 | 12°34 | 23°D25 | 25°16 | 19° 8 | 23°27 | |
| S 7 | 9 5 23 | 17°25'08 | 2♁12 | 26° 2 | 26°58 | 19°37 | 24°19 | 29°23 | 29°39 | 9° 6 | 12°34 | 23°26 | 25°13 | 19°15 | 23°25 | |
| M 8 | 9 9 19 | 18°25'55 | 14°16 | 25° 8 | 28°10 | 20°18 | 24°29 | 29°29 | 29°42 | 9° 8 | 12°34 | 23°27 | 25° 9 | 19°22 | 23°23 | |
| T 9 | 9 13 16 | 19°26'41 | 26°32 | 24° 7 | 29°21 | 20°58 | 24°38 | 29°34 | 29°45 | 9°10 | 12°35 | 23°29 | 25° 6 | 19°28 | 23°22 | |
| W10 | 9 17 12 | 20°27'25 | 9♂ 5 | 23° 1 | 0♂32 | 21°38 | 24°48 | 29°39 | 29°47 | 9°12 | 12°35 | 23°30 | 25° 3 | 19°35 | 23°20 | |
| T 11 | 9 21 9 | 21°28'09 | 21°58 | 21°52 | 1°44 | 22°19 | 24°58 | 29°45 | 29°50 | 9°14 | 12°35 | 23°R31 | 25° 0 | 19°42 | 23°19 | |
| F 12 | 9 25 6 | 22°28'52 | 5♁16 | 20°41 | 2°55 | 22°59 | 25° 8 | 29°50 | 29°53 | 9°15 | 12°35 | 23°30 | 24°57 | 19°48 | 23°17 | |
| S 13 | 9 29 2 | 23°29'34 | 19° 1 | 19°31 | 4° 6 | 23°39 | 25°18 | 29°55 | 29°55 | 9°17 | 12°35 | 23°28 | 24°53 | 19°55 | 23°16 | |
| S 14 | 9 32 59 | 24°30'14 | 3♁14 | 18°23 | 5°16 | 24°20 | 25°28 | 0♁ 0 | 29°58 | 9°19 | 12°35 | 23°25 | 24°50 | 20° 2 | 23°15 | |
| M15 | 9 36 55 | 25°30'54 | 17°53 | 17°19 | 6°27 | 25° 0 | 25°39 | 0° 5 | 29°59 | 9°21 | 12°R35 | 23°21 | 24°47 | 20° 8 | 23°14 | |
| T 16 | 9 40 52 | 26°31'32 | 2♁53 | 16°20 | 7°38 | 25°40 | 25°49 | 0°10 | 0♁ 2 | 9°22 | 12°35 | 23°17 | 24°44 | 20°15 | 23°13 | |
| W17 | 9 44 48 | 27°32'09 | 18° 5 | 15°27 | 8°48 | 26°21 | 26° 0 | 0°15 | 0° 5 | 9°24 | 12°35 | 23°13 | 24°41 | 20°22 | 23°12 | |
| T 18 | 9 48 45 | 28°32'44 | 3♁21 | 14°40 | 9°58 | 27° 1 | 26°11 | 0°20 | 0° 7 | 9°26 | 12°35 | 23°11 | 24°38 | 20°28 | 23°11 | |
| F 19 | 9 52 41 | 29°33'18 | 18°28 | 14° 2 | 11° 9 | 27°42 | 26°21 | 0°24 | 0° 9 | 9°27 | 12°35 | 23°D10 | 24°34 | 20°35 | 23°10 | |
| S 20 | 9 56 38 | 0♁33'50 | 3♂19 | 13°31 | 12°19 | 28°22 | 26°32 | 0°29 | 0°12 | 9°29 | 12°35 | 23°10 | 24°31 | 20°42 | 23° 9 | |
| S 21 | 10 0 35 | 1°34'20 | 17°48 | 13° 7 | 13°29 | 29° 2 | 26°43 | 0°34 | 0°14 | 9°30 | 12°34 | 23°11 | 24°28 | 20°48 | 23° 9 | |
| M22 | 10 4 31 | 2°34'49 | 1♁49 | 12°51 | 14°39 | 29°43 | 26°54 | 0°38 | 0°16 | 9°32 | 12°34 | 23°13 | 24°25 | 20°55 | 23° 8 | |
| T 23 | 10 8 28 | 3°35'15 | 15°24 | 12°43 | 15°48 | 0♁23 | 27° 6 | 0°43 | 0°18 | 9°33 | 12°34 | 23°14 | 24°22 | 21° 2 | 23° 8 | |
| W24 | 10 12 24 | 4°35'40 | 28°33 | 12°D41 | 16°58 | 1° 4 | 27°17 | 0°47 | 0°20 | 9°35 | 12°33 | 23°15 | 24°19 | 21° 8 | 23° 7 | |
| T 25 | 10 16 21 | 5°36'03 | 11♂19 | 12°46 | 18° 7 | 1°44 | 27°28 | 0°51 | 0°22 | 9°36 | 12°33 | 23°R15 | 24°15 | 21°15 | 23° 7 | |
| F 26 | 10 20 17 | 6°36'24 | 23°46 | 12°58 | 19°16 | 2°24 | 27°40 | 0°56 | 0°24 | 9°38 | 12°33 | 23°14 | 24°12 | 21°22 | 23° 7 | |
| S 27 | 10 24 14 | 7°36'43 | 5♁59 | 13°15 | 20°25 | 3° 5 | 27°51 | 1° 0 | 0°26 | 9°39 | 12°32 | 23°12 | 24° 9 | 21°28 | 23° 7 | |
| S 28 | 10 28 10 | 8°37'00 | 18° 0 | 13°38 | 21°34 | 3°45 | 28° 3 | 1° 4 | 0°28 | 9°41 | 12°32 | 23°10 | 24° 6 | 21°35 | 23°D 7 | |
| M29 | 10 32 7 | 9♁37'15 | 29♁54 | 14♁ 6 | 22♂43 | 4♁26 | 28♂15 | 1♁ 8 | 0♁30 | 9♁42 | 12♂31 | 23♁ 8 | 24♁ 3 | 21♂42 | 23♂ 7 | |

Delta T = 55.86 sec.

SWISS Ephémérides pour l'année 1988 à 00h00 TU

Mars 1988

00:00 UT

| Jour | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|------|------|------|--------|-------|-------|-------|-------|
| T 1 | 10 36 4 | 10♌37'29 | 11♌04 | 14♋39 | 23♊51 | 5♉6 | 28♊27 | 1♉12 | 0♉32 | 9♉43 | 12♏R31 | 23♏6 | 23♌59 | 21♌48 | 23♐7 |
| W 2 | 10 40 0 | 11°37'40 | 23°33 | 15°16 | 25°0 | 5°47 | 28°39 | 1°15 | 0°33 | 9°45 | 12♏30 | 23♌5 | 23°56 | 21°55 | 23°7 |
| T 3 | 10 43 57 | 12°37'49 | 5♎23 | 15°57 | 26°8 | 6°27 | 28°51 | 1°19 | 0°35 | 9°46 | 12°30 | 23°3 | 23°53 | 22°2 | 23°7 |
| F 4 | 10 47 53 | 13°37'56 | 17°16 | 16°42 | 27°16 | 7°8 | 29°3 | 1°23 | 0°37 | 9°47 | 12°29 | 23°D3 | 23°50 | 22°8 | 23°8 |
| S 5 | 10 51 50 | 14°38'02 | 29°14 | 17°31 | 28°23 | 7°48 | 29°15 | 1°26 | 0°38 | 9°48 | 12°28 | 23°3 | 23°47 | 22°15 | 23°8 |
| S 6 | 10 55 46 | 15°38'06 | 11♌19 | 18°23 | 29°31 | 8°29 | 29°27 | 1°30 | 0°40 | 9°50 | 12°28 | 23°3 | 23°44 | 22°22 | 23°9 |
| M 7 | 10 59 43 | 16°38'08 | 23°34 | 19°19 | 0♉38 | 9°9 | 29°39 | 1°33 | 0°41 | 9°51 | 12°27 | 23°4 | 23°40 | 22°28 | 23°9 |
| T 8 | 11 3 39 | 17°38'08 | 6♏1 | 20°17 | 1°45 | 9°50 | 29°52 | 1°37 | 0°43 | 9°52 | 12°26 | 23°5 | 23°37 | 22°35 | 23°10 |
| W 9 | 11 7 36 | 18°38'07 | 18°42 | 21°18 | 2°52 | 10°30 | 0♉4 | 1°40 | 0°44 | 9°53 | 12°25 | 23°5 | 23°34 | 22°42 | 23°11 |
| T 10 | 11 11 33 | 19°38'04 | 1♌39 | 22°21 | 3°59 | 11°11 | 0°17 | 1°43 | 0°46 | 9°54 | 12°25 | 23°5 | 23°31 | 22°48 | 23°11 |
| F 11 | 11 15 29 | 20°38'00 | 14°55 | 23°27 | 5°6 | 11°51 | 0°29 | 1°46 | 0°47 | 9°55 | 12°24 | 23°6 | 23°28 | 22°55 | 23°12 |
| S 12 | 11 19 26 | 21°37'54 | 28°33 | 24°35 | 6°12 | 12°32 | 0°42 | 1°49 | 0°48 | 9°56 | 12°23 | 23°R6 | 23°24 | 23°2 | 23°13 |
| S 13 | 11 23 22 | 22°37'46 | 12♉33 | 25°45 | 7°18 | 13°12 | 0°55 | 1°52 | 0°49 | 9°57 | 12°22 | 23°D6 | 23°21 | 23°8 | 23°14 |
| M14 | 11 27 19 | 23°37'37 | 26°53 | 26°57 | 8°24 | 13°53 | 1°8 | 1°55 | 0°50 | 9°58 | 12°21 | 23°6 | 23°18 | 23°15 | 23°16 |
| T 15 | 11 31 15 | 24°37'26 | 11♋33 | 28°11 | 9°29 | 14°33 | 1°21 | 1°57 | 0°52 | 9°59 | 12°20 | 23°6 | 23°15 | 23°22 | 23°17 |
| W16 | 11 35 12 | 25°37'13 | 26°27 | 29°27 | 10°35 | 15°14 | 1°34 | 2°0 | 0°53 | 10°0 | 12°19 | 23°6 | 23°12 | 23°28 | 23°18 |
| T 17 | 11 39 8 | 26°36'58 | 11♌27 | 0♌45 | 11°40 | 15°54 | 1°47 | 2°2 | 0°54 | 10°1 | 12°18 | 23°6 | 23°9 | 23°35 | 23°19 |
| F 18 | 11 43 5 | 27°36'42 | 26°26 | 2°5 | 12°45 | 16°35 | 2°0 | 2°5 | 0°55 | 10°2 | 12°17 | 23°R6 | 23°5 | 23°42 | 23°21 |
| S 19 | 11 47 2 | 28°36'23 | 11♊15 | 3°26 | 13°49 | 17°15 | 2°13 | 2°7 | 0°55 | 10°2 | 12°16 | 23°6 | 23°2 | 23°48 | 23°22 |
| S 20 | 11 50 58 | 29°36'02 | 25°47 | 4°48 | 14°53 | 17°56 | 2°26 | 2°9 | 0°56 | 10°3 | 12°15 | 23°5 | 22°59 | 23°55 | 23°24 |
| M21 | 11 54 55 | 0♊35'40 | 9♉56 | 6°13 | 15°57 | 18°36 | 2°39 | 2°11 | 0°57 | 10°4 | 12°14 | 23°5 | 22°56 | 24°2 | 23°26 |
| T 22 | 11 58 51 | 1°35'15 | 23°40 | 7°38 | 17°1 | 19°17 | 2°53 | 2°13 | 0°58 | 10°5 | 12°13 | 23°3 | 22°53 | 24°8 | 23°28 |
| W23 | 12 2 48 | 2°34'47 | 6♏57 | 9°6 | 18°4 | 19°57 | 3°6 | 2°15 | 0°59 | 10°5 | 12°12 | 23°2 | 22°50 | 24°15 | 23°29 |
| T 24 | 12 6 44 | 3°34'18 | 19°50 | 10°34 | 19°7 | 20°38 | 3°19 | 2°17 | 0°59 | 10°6 | 12°10 | 23°2 | 22°46 | 24°22 | 23°31 |
| F 25 | 12 10 41 | 4°33'46 | 2♉21 | 12°4 | 20°10 | 21°18 | 3°33 | 2°19 | 1°0 | 10°7 | 12°9 | 23°D1 | 22°43 | 24°28 | 23°33 |
| S 26 | 12 14 37 | 5°33'12 | 14°34 | 13°36 | 21°12 | 21°59 | 3°46 | 2°20 | 1°0 | 10°7 | 12°8 | 23°2 | 22°40 | 24°35 | 23°35 |
| S 27 | 12 18 34 | 6°32'36 | 26°35 | 15°9 | 22°15 | 22°39 | 4°0 | 2°22 | 1°1 | 10°8 | 12°7 | 23°2 | 22°37 | 24°42 | 23°38 |
| M28 | 12 22 31 | 7°31'57 | 8♌27 | 16°43 | 23°16 | 23°20 | 4°13 | 2°23 | 1°1 | 10°8 | 12°5 | 23°3 | 22°34 | 24°48 | 23°40 |
| T 29 | 12 26 27 | 8°31'16 | 20°15 | 18°19 | 24°17 | 24°0 | 4°27 | 2°25 | 1°2 | 10°9 | 12°4 | 23°5 | 22°30 | 24°55 | 23°42 |
| W30 | 12 30 24 | 9°30'33 | 2♎4 | 19°56 | 25°18 | 24°41 | 4°41 | 2°26 | 1°2 | 10°9 | 12°3 | 23°6 | 22°27 | 25°2 | 23°45 |
| T 31 | 12 34 20 | 10°29'47 | 13♎56 | 21°35 | 26°19 | 25°21 | 4°54 | 2°27 | 1°2 | 10°9 | 12°2 | 23°7 | 22°24 | 25°8 | 23°47 |

Delta T = 55.90 sec.

Avril 1988

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| Jour | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|------|--------|-------|--------|-------|-------|-------|
| F 1 | 12 38 17 | 11♊28'59 | 25♎56 | 23♌15 | 27♉19 | 26♉1 | 5♉8 | 2♉28 | 1♉2 | 10♉10 | 12°R0 | 23°R7 | 22♌21 | 25♌15 | 23♐50 |
| S 2 | 12 42 13 | 12°28'10 | 8♌4 | 24°56 | 28°19 | 26°42 | 5°22 | 2°29 | 1°3 | 10°10 | 11♏59 | 23♌7 | 22°18 | 25°22 | 23°52 |
| S 3 | 12 46 10 | 13°27'18 | 20°24 | 26°39 | 29°18 | 27°22 | 5°36 | 2°30 | 1°3 | 10°10 | 11°57 | 23°5 | 22°15 | 25°28 | 23°55 |
| M 4 | 12 50 6 | 14°26'24 | 2♏56 | 28°23 | 0♏17 | 28°3 | 5°50 | 2°31 | 1°3 | 10°11 | 11°56 | 23°2 | 22°11 | 25°35 | 23°58 |
| T 5 | 12 54 3 | 15°25'28 | 15°40 | 0♊9 | 1°15 | 28°43 | 6°4 | 2°31 | 1°R3 | 10°11 | 11°54 | 22°59 | 22°8 | 25°42 | 24°0 |
| W 6 | 12 58 0 | 16°24'30 | 28°39 | 1°56 | 2°13 | 29°23 | 6°18 | 2°32 | 1°3 | 10°11 | 11°53 | 22°55 | 22°5 | 25°48 | 24°3 |
| T 7 | 13 1 56 | 17°23'31 | 11♌51 | 3°44 | 3°10 | 0♌4 | 6°31 | 2°32 | 1°3 | 10°11 | 11°51 | 22°52 | 22°2 | 25°55 | 24°6 |
| F 8 | 13 5 53 | 18°22'30 | 25°17 | 5°34 | 4°7 | 0°44 | 6°45 | 2°33 | 1°3 | 10°11 | 11°50 | 22°49 | 21°59 | 26°1 | 24°9 |
| S 9 | 13 9 49 | 19°21'27 | 8♉57 | 7°26 | 5°4 | 1°25 | 6°59 | 2°33 | 1°2 | 10°12 | 11°48 | 22°48 | 21°56 | 26°8 | 24°12 |
| S 10 | 13 13 46 | 20°20'22 | 22°52 | 9°18 | 6°0 | 2°5 | 7°14 | 2°33 | 1°2 | 10°12 | 11°47 | 22°D47 | 21°52 | 26°15 | 24°15 |
| M11 | 13 17 42 | 21°19'16 | 6♋59 | 11°13 | 6°55 | 2°45 | 7°28 | 2°R33 | 1°2 | 10°12 | 11°45 | 22°48 | 21°49 | 26°21 | 24°18 |
| T 12 | 13 21 39 | 22°18'08 | 21°19 | 13°9 | 7°50 | 3°25 | 7°42 | 2°33 | 1°2 | 10°R12 | 11°44 | 22°49 | 21°46 | 26°28 | 24°22 |
| W13 | 13 25 35 | 23°16'58 | 5♌49 | 15°6 | 8°44 | 4°6 | 7°56 | 2°33 | 1°1 | 10°12 | 11°42 | 22°51 | 21°43 | 26°35 | 24°25 |
| T 14 | 13 29 32 | 24°15'46 | 20°24 | 17°5 | 9°37 | 4°46 | 8°10 | 2°33 | 1°1 | 10°12 | 11°40 | 22°R52 | 21°40 | 26°41 | 24°28 |
| F 15 | 13 33 29 | 25°14'33 | 5♊0 | 19°5 | 10°30 | 5°26 | 8°24 | 2°32 | 1°0 | 10°11 | 11°39 | 22°51 | 21°36 | 26°48 | 24°32 |
| S 16 | 13 37 25 | 26°13'17 | 19°31 | 21°7 | 11°22 | 6°6 | 8°38 | 2°32 | 1°0 | 10°11 | 11°37 | 22°49 | 21°33 | 26°55 | 24°35 |
| S 17 | 13 41 22 | 27°12'00 | 3♉51 | 23°9 | 12°14 | 6°47 | 8°53 | 2°31 | 0°59 | 10°11 | 11°36 | 22°45 | 21°30 | 27°1 | 24°39 |
| M18 | 13 45 18 | 28°10'41 | 17°54 | 25°13 | 13°5 | 7°27 | 9°7 | 2°31 | 0°58 | 10°11 | 11°34 | 22°40 | 21°27 | 27°8 | 24°43 |
| T 19 | 13 49 15 | 29°9'20 | 1♏36 | 27°19 | 13°55 | 8°7 | 9°21 | 2°30 | 0°58 | 10°11 | 11°32 | 22°34 | 21°24 | 27°15 | 24°46 |
| W20 | 13 53 11 | 0♉7'57 | 14°55 | 29°25 | 14°44 | 8°47 | 9°35 | 2°29 | 0°57 | 10°10 | 11°31 | 22°28 | 21°21 | 27°21 | 24°50 |
| T 21 | 13 57 8 | 1°6'31 | 27°51 | 1♉32 | 15°33 | 9°27 | 9°49 | 2°28 | 0°56 | 10°10 | 11°29 | 22°23 | 21°17 | 27°28 | 24°54 |
| F 22 | 14 1 4 | 2°5'04 | 10♉25 | 3°39 | 16°21 | 10°7 | 10°4 | 2°27 | 0°55 | 10°10 | 11°27 | 22°19 | 21°14 | 27°35 | 24°58 |
| S 23 | 14 5 1 | 3°3'34 | 22°41 | 5°47 | 17°8 | 10°47 | 10°18 | 2°26 | 0°54 | 10°10 | 11°26 | 22°17 | 21°11 | 27°41 | 25°2 |
| S 24 | 14 8 58 | 4°2'02 | 4♌42 | 7°56 | 17°54 | 11°27 | 10°32 | 2°25 | 0°54 | 10°9 | 11°24 | 22°D16 | 21°8 | 27°48 | 25°6 |
| M25 | 14 12 54 | 5°0'28 | 16°35 | 10°4 | 18°39 | 12°7 | 10°47 | 2°24 | 0°53 | 10°9 | 11°22 | 22°17 | 21°5 | 27°55 | 25°10 |
| T 26 | 14 16 51 | 5°58'52 | 28°24 | 12°12 | 19°23 | 12°47 | 11°1 | 2°22 | 0°52 | 10°8 | 11°21 | 22°18 | 21°2 | 28°1 | 25°14 |
| W27 | 14 20 47 | 6°57'14 | 10♎13 | 14°19 | 20°6 | 13°27 | 11°15 | 2°21 | 0°50 | 10°8 | 11°19 | 22°20 | 20°58 | 28°8 | 25°18 |
| T 28 | 14 24 44 | 7°55'34 | 22°9 | 16°26 | 20°48 | 14°7 | 11°30 | 2°19 | 0°49 | 10°7 | 11°17 | 22°R20 | 20°55 | 28°15 | 25°22 |
| F 29 | 14 28 40 | 8°53'51 | 4♌15 | 18°31 | 21°30 | 14°46 | 11°44 | 2°18 | 0°48 | 10°7 | 11°16 | 22°20 | 20°52 | 28°21 | 25°26 |
| S 30 | 14 32 37 | 9♉52'07 | 16♌33 | 20♉34 | 22♏10 | 15♋26 | 11♉58 | 2♉16 | 0♉47 | 10♉6 | 11♏14 | 22♌17 | 20♌49 | 28♏28 | 25♐30 |

Delta T = 55.94 sec.

SWISS Éphémérides pour l'année 1988 à 00h00 TU

Mai 1988

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| Jour | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|---|
| S 1 | 14 36 33 | 10♈50'21 | 29♎ 7 | 22♋36 | 22♏48 | 16♌ 6 | 12♌13 | 2°R14 | 0°R46 | 10°R 6 | 11°R12 | 22°R12 | 20♋46 | 28♏35 | 25♏35 | |
| M 2 | 14 40 30 | 11°48'33 | 11♏58 | 24°36 | 23°26 | 16°46 | 12°27 | 2♋12 | 0♋44 | 10♋ 5 | 11♏11 | 22♋ 5 | 20°42 | 28°41 | 25°39 | |
| T 3 | 14 44 26 | 12°46'43 | 25° 5 | 26°33 | 24° 2 | 17°25 | 12°41 | 2°10 | 0°43 | 10° 4 | 11° 9 | 21°57 | 20°39 | 28°48 | 25°43 | |
| W 4 | 14 48 23 | 13°44'52 | 8♌27 | 28°28 | 24°37 | 18° 5 | 12°56 | 2° 8 | 0°42 | 10° 4 | 11° 7 | 21°48 | 20°36 | 28°55 | 25°48 | |
| T 5 | 14 52 20 | 14°42'59 | 22° 3 | 0♏20 | 25°11 | 18°44 | 13°10 | 2° 6 | 0°40 | 10° 3 | 11° 6 | 21°40 | 20°33 | 29° 1 | 25°52 | |
| F 6 | 14 56 16 | 15°41'05 | 5♋49 | 2° 9 | 25°43 | 19°24 | 13°24 | 2° 3 | 0°39 | 10° 2 | 11° 4 | 21°33 | 20°30 | 29° 8 | 25°57 | |
| S 7 | 15 0 13 | 16°39'09 | 19°43 | 3°55 | 26°14 | 20° 3 | 13°38 | 2° 1 | 0°37 | 10° 1 | 11° 2 | 21°28 | 20°27 | 29°15 | 26° 1 | |
| S 8 | 15 4 9 | 17°37'12 | 3♌44 | 5°37 | 26°44 | 20°43 | 13°53 | 1°59 | 0°36 | 10° 1 | 11° 0 | 21°25 | 20°23 | 29°21 | 26° 6 | |
| M 9 | 15 8 6 | 18°35'13 | 17°50 | 7°16 | 27°12 | 21°22 | 14° 7 | 1°56 | 0°34 | 10° 0 | 10°59 | 21°D24 | 20°20 | 29°28 | 26°11 | |
| T 10 | 15 12 2 | 19°33'13 | 1♋59 | 8°52 | 27°38 | 22° 1 | 14°21 | 1°53 | 0°33 | 9°59 | 10°57 | 21°24 | 20°17 | 29°35 | 26°15 | |
| W 11 | 15 15 59 | 20°31'12 | 16°10 | 10°23 | 28° 2 | 22°41 | 14°36 | 1°51 | 0°31 | 9°58 | 10°55 | 21°R25 | 20°14 | 29°41 | 26°20 | |
| T 12 | 15 19 56 | 21°29'10 | 0♏22 | 11°52 | 28°25 | 23°20 | 14°50 | 1°48 | 0°29 | 9°57 | 10°54 | 21°25 | 20°11 | 29°48 | 26°25 | |
| F 13 | 15 23 52 | 22°27'06 | 14°32 | 13°16 | 28°46 | 23°59 | 15° 4 | 1°45 | 0°28 | 9°56 | 10°52 | 21°23 | 20° 7 | 29°54 | 26°30 | |
| S 14 | 15 27 49 | 23°25'01 | 28°37 | 14°37 | 29° 6 | 24°38 | 15°18 | 1°42 | 0°26 | 9°55 | 10°50 | 21°18 | 20° 4 | 0♏ 1 | 26°35 | |
| S 15 | 15 31 45 | 24°22'54 | 12♋34 | 15°53 | 29°23 | 25°17 | 15°33 | 1°39 | 0°24 | 9°54 | 10°49 | 21°11 | 20° 1 | 0° 8 | 26°40 | |
| M 16 | 15 35 42 | 25°20'47 | 26°19 | 17° 6 | 29°39 | 25°56 | 15°47 | 1°36 | 0°22 | 9°53 | 10°47 | 21° 1 | 19°58 | 0°14 | 26°45 | |
| T 17 | 15 39 38 | 26°18'37 | 9♏47 | 18°15 | 29°52 | 26°35 | 16° 1 | 1°33 | 0°20 | 9°52 | 10°46 | 20°51 | 19°55 | 0°21 | 26°49 | |
| W 18 | 15 43 35 | 27°16'27 | 22°57 | 19°20 | 0♉ 3 | 27°14 | 16°15 | 1°30 | 0°18 | 9°51 | 10°44 | 20°40 | 19°52 | 0°28 | 26°54 | |
| T 19 | 15 47 31 | 28°14'14 | 5♉48 | 20°21 | 0°13 | 27°52 | 16°29 | 1°26 | 0°17 | 9°50 | 10°42 | 20°30 | 19°48 | 0°34 | 27° 0 | |
| F 20 | 15 51 28 | 29°12'01 | 18°20 | 21°17 | 0°20 | 28°31 | 16°44 | 1°23 | 0°15 | 9°49 | 10°41 | 20°21 | 19°45 | 0°41 | 27° 5 | |
| S 21 | 15 55 25 | 0♏ 9'45 | 0♏25 | 22° 9 | 0°24 | 29° 9 | 16°58 | 1°20 | 0°13 | 9°48 | 10°39 | 20°15 | 19°42 | 0°48 | 27°10 | |
| S 22 | 15 59 21 | 1° 7'28 | 12°36 | 22°57 | 0°27 | 29°48 | 17°12 | 1°16 | 0°11 | 9°47 | 10°38 | 20°11 | 19°39 | 0°54 | 27°15 | |
| M 23 | 16 3 18 | 2° 5'10 | 24°29 | 23°41 | 0°R27 | 0♋26 | 17°26 | 1°13 | 0° 9 | 9°45 | 10°36 | 20°10 | 19°36 | 1° 1 | 27°20 | |
| T 24 | 16 7 14 | 3° 2'50 | 6♏18 | 24°20 | 0°25 | 1° 4 | 17°40 | 1° 9 | 0° 6 | 9°44 | 10°35 | 20°D 9 | 19°33 | 1° 8 | 27°25 | |
| W 25 | 16 11 11 | 4° 0'28 | 18° 8 | 24°55 | 0°20 | 1°42 | 17°54 | 1° 6 | 0° 4 | 9°43 | 10°33 | 20°R10 | 19°29 | 1°14 | 27°30 | |
| T 26 | 16 15 7 | 4°58'05 | 0♉ 5 | 25°25 | 0°13 | 2°20 | 18° 8 | 1° 2 | 0° 2 | 9°42 | 10°32 | 20° 9 | 19°26 | 1°21 | 27°36 | |
| F 27 | 16 19 4 | 5°55'40 | 12°15 | 25°50 | 0° 4 | 2°58 | 18°22 | 0°58 | 0° 0 | 9°40 | 10°30 | 20° 7 | 19°23 | 1°28 | 27°41 | |
| S 28 | 16 23 0 | 6°53'14 | 24°40 | 26°11 | 29♏52 | 3°36 | 18°36 | 0°54 | 29♌58 | 9°39 | 10°29 | 20° 3 | 19°20 | 1°34 | 27°46 | |
| S 29 | 16 26 57 | 7°50'46 | 7♏26 | 26°27 | 29°37 | 4°14 | 18°50 | 0°50 | 29°56 | 9°38 | 10°27 | 19°56 | 19°17 | 1°41 | 27°51 | |
| M 30 | 16 30 54 | 8°48'18 | 20°32 | 26°38 | 29°20 | 4°52 | 19° 4 | 0°46 | 29°54 | 9°37 | 10°26 | 19°47 | 19°13 | 1°48 | 27°57 | |
| T 31 | 16 34 50 | 9♏45'48 | 3♌59 | 26♏45 | 29♏ 1 | 5♋29 | 19♋17 | 0♋43 | 29♌51 | 9♋35 | 10♏24 | 19♋36 | 19♋10 | 1♏54 | 28♏ 2 | |

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|------|----------|----------|-------|--------|--------|-------|-------|-------|--------|-------|--------|--------|-------|------|-------|---|
| W 1 | 16 38 47 | 10♏43'17 | 17♌45 | 26°R47 | 28°R40 | 6♋ 7 | 19♋31 | 0°R39 | 29°R49 | 9°R34 | 10°R23 | 19°R25 | 19♋ 7 | 2♏ 1 | 28♏ 7 | |
| T 2 | 16 42 43 | 11°40'46 | 1♋47 | 26♏45 | 28♏16 | 6°44 | 19°45 | 0♋35 | 29♌47 | 9♋32 | 10♏22 | 19♋13 | 19° 4 | 2° 8 | 28°13 | |
| F 3 | 16 46 40 | 12°38'13 | 15°59 | 26°38 | 27°51 | 7°21 | 19°59 | 0°30 | 29°45 | 9°31 | 10°20 | 19° 3 | 19° 1 | 2°14 | 28°18 | |
| S 4 | 16 50 36 | 13°35'40 | 0♌16 | 26°26 | 27°23 | 7°58 | 20°12 | 0°26 | 29°42 | 9°30 | 10°19 | 18°56 | 18°58 | 2°21 | 28°24 | |
| S 5 | 16 54 33 | 14°33'05 | 14°34 | 26°11 | 26°53 | 8°35 | 20°26 | 0°22 | 29°40 | 9°28 | 10°17 | 18°51 | 18°54 | 2°28 | 28°29 | |
| M 6 | 16 58 29 | 15°30'30 | 28°49 | 25°52 | 26°22 | 9°12 | 20°40 | 0°18 | 29°38 | 9°27 | 10°16 | 18°49 | 18°51 | 2°34 | 28°35 | |
| T 7 | 17 2 26 | 16°27'55 | 12♋59 | 25°30 | 25°49 | 9°49 | 20°53 | 0°14 | 29°35 | 9°25 | 10°15 | 18°49 | 18°48 | 2°41 | 28°40 | |
| W 8 | 17 6 23 | 17°25'19 | 27° 3 | 25° 4 | 25°15 | 10°25 | 21° 7 | 0°10 | 29°33 | 9°24 | 10°14 | 18°49 | 18°45 | 2°47 | 28°46 | |
| T 9 | 17 10 19 | 18°22'42 | 11♏ 0 | 24°36 | 24°40 | 11° 2 | 21°20 | 0° 5 | 29°30 | 9°22 | 10°12 | 18°48 | 18°42 | 2°54 | 28°51 | |
| F 10 | 17 14 16 | 19°20'04 | 24°50 | 24° 6 | 24° 4 | 11°38 | 21°34 | 0° 1 | 29°28 | 9°21 | 10°11 | 18°45 | 18°39 | 3° 1 | 28°57 | |
| S 11 | 17 18 12 | 20°17'27 | 8♋31 | 23°34 | 23°27 | 12°14 | 21°47 | 29♌57 | 29°26 | 9°19 | 10°10 | 18°39 | 18°35 | 3° 7 | 29° 2 | |
| S 12 | 17 22 9 | 21°14'49 | 22° 3 | 23° 1 | 22°50 | 12°50 | 22° 0 | 29°52 | 29°23 | 9°18 | 10° 9 | 18°31 | 18°32 | 3°14 | 29° 8 | |
| M 13 | 17 26 5 | 22°12'10 | 5♏24 | 22°27 | 22°12 | 13°26 | 22°14 | 29°48 | 29°21 | 9°16 | 10° 8 | 18°20 | 18°29 | 3°21 | 29°13 | |
| T 14 | 17 30 2 | 23° 9'30 | 18°32 | 21°53 | 21°35 | 14° 2 | 22°27 | 29°44 | 29°18 | 9°15 | 10° 7 | 18° 8 | 18°26 | 3°27 | 29°19 | |
| W 15 | 17 33 58 | 24° 6'50 | 1♉26 | 21°20 | 20°57 | 14°37 | 22°40 | 29°39 | 29°16 | 9°13 | 10° 5 | 17°55 | 18°23 | 3°34 | 29°24 | |
| T 16 | 17 37 55 | 25° 4'10 | 14° 4 | 20°48 | 20°21 | 15°12 | 22°53 | 29°35 | 29°14 | 9°12 | 10° 4 | 17°43 | 18°20 | 3°41 | 29°30 | |
| F 17 | 17 41 52 | 26° 1'29 | 26°27 | 20°18 | 19°44 | 15°47 | 23° 6 | 29°30 | 29°11 | 9°10 | 10° 3 | 17°33 | 18°16 | 3°47 | 29°35 | |
| S 18 | 17 45 48 | 26°58'46 | 8♏37 | 19°50 | 19° 9 | 16°22 | 23°19 | 29°26 | 29° 9 | 9° 9 | 10° 2 | 17°25 | 18°13 | 3°54 | 29°41 | |
| S 19 | 17 49 45 | 27°56'04 | 20°35 | 19°25 | 18°35 | 16°57 | 23°32 | 29°21 | 29° 6 | 9° 7 | 10° 1 | 17°20 | 18°10 | 4° 1 | 29°47 | |
| M 20 | 17 53 41 | 28°53'20 | 2♏26 | 19° 2 | 18° 3 | 17°31 | 23°45 | 29°17 | 29° 4 | 9° 6 | 10° 0 | 17°17 | 18° 7 | 4° 7 | 29°52 | |
| T 21 | 17 57 38 | 29°50'36 | 14°14 | 18°44 | 17°31 | 18° 6 | 23°58 | 29°13 | 29° 1 | 9° 4 | 9°59 | 17°D16 | 18° 4 | 4°14 | 29°58 | |
| W 22 | 18 1 34 | 0♉47'51 | 26° 4 | 18°29 | 17° 2 | 18°40 | 24°11 | 29° 8 | 28°59 | 9° 2 | 9°59 | 17°R17 | 18° 0 | 4°21 | 0♉ 3 | |
| T 23 | 18 5 31 | 1°45'05 | 8♌ 1 | 18°18 | 16°34 | 19°14 | 24°24 | 29° 4 | 28°56 | 9° 1 | 9°58 | 17°16 | 17°57 | 4°27 | 0° 9 | |
| F 24 | 18 9 27 | 2°42'19 | 20°11 | 18°11 | 16° 9 | 19°47 | 24°36 | 28°59 | 28°54 | 8°59 | 9°57 | 17°15 | 17°54 | 4°34 | 0°15 | |
| S 25 | 18 13 24 | 3°39'32 | 2♏38 | 18°D 9 | 15°45 | 20°21 | 24°49 | 28°55 | 28°52 | 8°58 | 9°56 | 17°12 | 17°51 | 4°41 | 0°20 | |
| S 26 | 18 17 21 | 4°36'44 | 15°28 | 18°12 | 15°23 | 20°54 | 25° 1 | 28°50 | 28°49 | 8°56 | 9°55 | 17° 6 | 17°48 | 4°47 | 0°26 | |
| M 27 | 18 21 17 | 5°33'57 | 28°43 | 18°19 | 15° 4 | 21°27 | 25°14 | 28°46 | 28°47 | 8°54 | 9°54 | 16°59 | 17°45 | 4°54 | 0°31 | |
| T 28 | 18 25 14 | 6°31'08 | 12♌23 | 18°31 | 14°47 | 22° 0 | 25°26 | 28°42 | 28°44 | 8°53 | 9°54 | 16°49 | 17°41 | 5° 0 | 0°37 | |
| W 29 | 18 29 10 | 7°28'20 | 26°26 | 18°48 | 14°33 | 22°32 | 25°39 | 28°37 | 28°42 | 8°51 | 9°53 | 16°38 | 17°38 | 5° 7 | 0°42 | |
| T 30 | 18 33 7 | 8°25'31 | 10♋49 | 19♏10 | 14♏21 | 23♋ 4 | 25♋51 | 28♌33 | 28♌39 | 8♋49 | 9♏52 | 16♋28 | 17♋35 | 5♏14 | 0♉48 | |

Delta T = 56.02 sec.

SWISS Éphémérides pour l'année 1988 à 00h00 TU

Juillet 1988

00:00 UT

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|------|----------|-----------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|---|
| F 1 | 18 37 3 | 9 ⁵⁵ 22'42 | 25 ³² 25 | 19 ¹¹ 37 | 14 ^R 11 | 23 ¹ 36 | 26 ³ 8 | 28 ^R 29 | 28 ^R 37 | 8 ^R 48 | 9 ^R 52 | 16 ^R 19 | 17 ¹ 32 | 5 ¹ 20 | 0 ⁵⁵ 54 | |
| S 2 | 18 41 0 | 10 ⁰ 19'53 | 10 ⁰ 8 7 | 20 ⁰ 8 | 14 ^{II} 3 | 24 ⁰ 8 | 26 ⁰ 15 | 28 ¹ 24 | 28 ¹ 35 | 8 ³ 46 | 9 ¹ 51 | 16 ¹ 13 | 17 ⁰ 29 | 5 ² 27 | 0 ⁰ 59 | |
| S 3 | 18 44 57 | 11 ⁰ 17'04 | 24 ⁰ 48 | 20 ⁰ 44 | 13 ⁰ 59 | 24 ⁰ 39 | 26 ⁰ 27 | 28 ⁰ 20 | 28 ⁰ 32 | 8 ⁰ 45 | 9 ⁰ 50 | 16 ⁰ 9 | 17 ⁰ 26 | 5 ⁰ 34 | 1 ⁰ 5 | |
| M 4 | 18 48 53 | 12 ⁰ 14'16 | 9 ¹ 21 | 21 ⁰ 25 | 13 ⁰ 56 | 25 ⁰ 11 | 26 ⁰ 39 | 28 ⁰ 16 | 28 ⁰ 30 | 8 ⁰ 43 | 9 ⁰ 50 | 16 ⁰ 7 | 17 ⁰ 22 | 5 ⁰ 40 | 1 ⁰ 10 | |
| T 5 | 18 52 50 | 13 ⁰ 11'27 | 23 ⁰ 43 | 22 ⁰ 11 | 13 ^D 56 | 25 ⁰ 41 | 26 ⁰ 51 | 28 ⁰ 12 | 28 ⁰ 28 | 8 ⁰ 41 | 9 ⁰ 49 | 16 ^D 7 | 17 ⁰ 19 | 5 ⁰ 47 | 1 ⁰ 16 | |
| W 6 | 18 56 46 | 14 ⁰ 8'39 | 7 ¹ 51 | 23 ⁰ 2 | 13 ⁰ 58 | 26 ⁰ 12 | 27 ⁰ 3 | 28 ⁰ 8 | 28 ⁰ 25 | 8 ⁰ 40 | 9 ⁰ 49 | 16 ^R 8 | 17 ⁰ 16 | 5 ⁰ 54 | 1 ⁰ 21 | |
| T 7 | 19 0 43 | 15 ⁰ 5'51 | 21 ⁰ 45 | 23 ⁰ 56 | 14 ⁰ 2 | 26 ⁰ 42 | 27 ⁰ 15 | 28 ⁰ 3 | 28 ⁰ 23 | 8 ⁰ 38 | 9 ⁰ 48 | 16 ⁰ 8 | 17 ⁰ 13 | 6 ⁰ 0 | 1 ⁰ 27 | |
| F 8 | 19 4 39 | 16 ⁰ 3'03 | 5 ¹ 24 | 24 ⁰ 56 | 14 ⁰ 9 | 27 ⁰ 12 | 27 ⁰ 26 | 27 ⁰ 59 | 28 ⁰ 21 | 8 ⁰ 37 | 9 ⁰ 48 | 16 ⁰ 6 | 17 ⁰ 10 | 6 ⁰ 7 | 1 ⁰ 32 | |
| S 9 | 19 8 36 | 17 ⁰ 0'16 | 18 ⁰ 50 | 26 ⁰ 0 | 14 ⁰ 18 | 27 ⁰ 42 | 27 ⁰ 38 | 27 ⁰ 55 | 28 ⁰ 18 | 8 ⁰ 35 | 9 ⁰ 48 | 16 ⁰ 2 | 17 ⁰ 6 | 6 ⁰ 14 | 1 ⁰ 38 | |
| S 10 | 19 12 32 | 17 ⁰ 57'29 | 2 ^{II} 2 | 27 ⁰ 8 | 14 ⁰ 29 | 28 ⁰ 11 | 27 ⁰ 49 | 27 ⁰ 51 | 28 ⁰ 16 | 8 ⁰ 33 | 9 ⁰ 47 | 15 ⁰ 56 | 17 ⁰ 3 | 6 ⁰ 20 | 1 ⁰ 43 | |
| M 11 | 19 16 29 | 18 ⁰ 54'43 | 15 ⁰ 2 | 28 ⁰ 21 | 14 ⁰ 41 | 28 ⁰ 40 | 28 ⁰ 1 | 27 ⁰ 47 | 28 ⁰ 14 | 8 ⁰ 32 | 9 ⁰ 47 | 15 ⁰ 48 | 17 ⁰ 0 | 6 ⁰ 27 | 1 ⁰ 49 | |
| T 12 | 19 20 26 | 19 ⁰ 51'57 | 27 ⁰ 49 | 29 ⁰ 38 | 14 ⁰ 56 | 29 ⁰ 9 | 28 ⁰ 12 | 27 ⁰ 43 | 28 ⁰ 12 | 8 ⁰ 30 | 9 ⁰ 47 | 15 ⁰ 38 | 16 ⁰ 57 | 6 ⁰ 34 | 1 ⁰ 54 | |
| W 13 | 19 24 22 | 20 ⁰ 49'12 | 10 ⁰ 24 | 0 ⁵⁵ 9 | 15 ⁰ 13 | 29 ⁰ 37 | 28 ⁰ 23 | 27 ⁰ 39 | 28 ⁰ 9 | 8 ⁰ 29 | 9 ⁰ 46 | 15 ⁰ 29 | 16 ⁰ 54 | 6 ⁰ 40 | 2 ⁰ 0 | |
| T 14 | 19 28 19 | 21 ⁰ 46'26 | 22 ⁰ 46 | 2 ⁰ 24 | 15 ⁰ 32 | 0 ¹ 5 | 28 ⁰ 34 | 27 ⁰ 35 | 28 ⁰ 7 | 8 ⁰ 27 | 9 ⁰ 46 | 15 ⁰ 19 | 16 ⁰ 51 | 6 ⁰ 47 | 2 ⁰ 5 | |
| F 15 | 19 32 15 | 22 ⁰ 43'41 | 4 ⁰ 58 | 3 ⁰ 54 | 15 ⁰ 53 | 0 ⁰ 32 | 28 ⁰ 46 | 27 ⁰ 32 | 28 ⁰ 5 | 8 ⁰ 25 | 9 ⁰ 46 | 15 ⁰ 11 | 16 ⁰ 47 | 6 ⁰ 53 | 2 ⁰ 10 | |
| S 16 | 19 36 12 | 23 ⁰ 40'57 | 16 ⁰ 59 | 5 ⁰ 27 | 16 ⁰ 15 | 0 ⁰ 59 | 28 ⁰ 56 | 27 ⁰ 28 | 28 ⁰ 3 | 8 ⁰ 24 | 9 ⁰ 46 | 15 ⁰ 6 | 16 ⁰ 44 | 7 ⁰ 0 | 2 ⁰ 16 | |
| S 17 | 19 40 8 | 24 ⁰ 38'12 | 28 ⁰ 52 | 7 ⁰ 4 | 16 ⁰ 39 | 1 ⁰ 26 | 29 ⁰ 7 | 27 ⁰ 24 | 28 ⁰ 1 | 8 ⁰ 22 | 9 ⁰ 46 | 15 ⁰ 2 | 16 ⁰ 41 | 7 ⁰ 7 | 2 ⁰ 21 | |
| M 18 | 19 44 5 | 25 ⁰ 35'28 | 10 ⁰ 10 | 8 ⁰ 45 | 17 ⁰ 4 | 1 ⁰ 52 | 29 ⁰ 18 | 27 ⁰ 21 | 27 ⁰ 59 | 8 ⁰ 21 | 9 ⁰ 46 | 15 ^D 0 | 16 ⁰ 38 | 7 ⁰ 13 | 2 ⁰ 26 | |
| T 19 | 19 48 1 | 26 ⁰ 32'44 | 22 ⁰ 27 | 10 ⁰ 29 | 17 ⁰ 31 | 2 ⁰ 18 | 29 ⁰ 29 | 27 ⁰ 17 | 27 ⁰ 57 | 8 ⁰ 19 | 9 ⁰ 46 | 15 ⁰ 1 | 16 ⁰ 35 | 7 ⁰ 20 | 2 ⁰ 32 | |
| W 20 | 19 51 58 | 27 ⁰ 30'00 | 4 ⁰ 16 | 12 ⁰ 17 | 18 ⁰ 0 | 2 ⁰ 43 | 29 ⁰ 39 | 27 ⁰ 13 | 27 ⁰ 55 | 8 ⁰ 18 | 9 ^D 46 | 15 ⁰ 2 | 16 ⁰ 32 | 7 ⁰ 27 | 2 ⁰ 37 | |
| T 21 | 19 55 55 | 28 ⁰ 27'16 | 16 ⁰ 12 | 14 ⁰ 8 | 18 ⁰ 30 | 3 ⁰ 8 | 29 ⁰ 50 | 27 ⁰ 10 | 27 ⁰ 53 | 8 ⁰ 16 | 9 ⁰ 46 | 15 ⁰ 3 | 16 ⁰ 28 | 7 ⁰ 33 | 2 ⁰ 42 | |
| F 22 | 19 59 51 | 29 ⁰ 24'33 | 28 ⁰ 21 | 16 ⁰ 1 | 19 ⁰ 2 | 3 ⁰ 32 | 0 ^{II} 0 | 27 ⁰ 7 | 27 ⁰ 51 | 8 ⁰ 15 | 9 ⁰ 46 | 15 ^R 4 | 16 ⁰ 25 | 7 ⁰ 40 | 2 ⁰ 47 | |
| S 23 | 20 3 48 | 0 ⁰ 21'50 | 10 ⁰ 18 | 17 ⁰ 58 | 19 ⁰ 35 | 3 ⁰ 56 | 0 ⁰ 10 | 27 ⁰ 3 | 27 ⁰ 49 | 8 ⁰ 13 | 9 ⁰ 46 | 15 ⁰ 3 | 16 ⁰ 22 | 7 ⁰ 47 | 2 ⁰ 53 | |
| S 24 | 20 7 44 | 1 ⁰ 19'08 | 23 ⁰ 36 | 19 ⁰ 56 | 20 ⁰ 9 | 4 ⁰ 20 | 0 ⁰ 20 | 27 ⁰ 0 | 27 ⁰ 47 | 8 ⁰ 12 | 9 ⁰ 46 | 15 ⁰ 1 | 16 ⁰ 19 | 7 ⁰ 53 | 2 ⁰ 58 | |
| M 25 | 20 11 41 | 2 ⁰ 16'25 | 6 ⁰ 15 | 21 ⁰ 57 | 20 ⁰ 44 | 4 ⁰ 43 | 0 ⁰ 30 | 26 ⁰ 57 | 27 ⁰ 45 | 8 ⁰ 10 | 9 ⁰ 46 | 14 ⁰ 57 | 16 ⁰ 16 | 8 ⁰ 0 | 3 ⁰ 3 | |
| T 26 | 20 15 37 | 3 ⁰ 13'44 | 20 ⁰ 33 | 24 ⁰ 0 | 21 ⁰ 21 | 5 ⁰ 5 | 0 ⁰ 40 | 26 ⁰ 54 | 27 ⁰ 43 | 8 ⁰ 9 | 9 ⁰ 46 | 14 ⁰ 52 | 16 ⁰ 12 | 8 ⁰ 7 | 3 ⁰ 8 | |
| W 27 | 20 19 34 | 4 ⁰ 11'02 | 4 ⁰ 32 | 26 ⁰ 4 | 21 ⁰ 59 | 5 ⁰ 28 | 0 ⁰ 50 | 26 ⁰ 51 | 27 ⁰ 41 | 8 ⁰ 8 | 9 ⁰ 46 | 14 ⁰ 45 | 16 ⁰ 9 | 8 ⁰ 13 | 3 ⁰ 13 | |
| T 28 | 20 23 30 | 5 ⁰ 8'22 | 19 ⁰ 15 | 28 ⁰ 8 | 22 ⁰ 38 | 5 ⁰ 49 | 1 ⁰ 0 | 26 ⁰ 48 | 27 ⁰ 40 | 8 ⁰ 6 | 9 ⁰ 47 | 14 ⁰ 40 | 16 ⁰ 6 | 8 ⁰ 20 | 3 ⁰ 18 | |
| F 29 | 20 27 27 | 6 ⁰ 5'42 | 4 ⁰ 6 | 0 ⁰ 14 | 23 ⁰ 18 | 6 ⁰ 10 | 1 ⁰ 9 | 26 ⁰ 45 | 27 ⁰ 38 | 8 ⁰ 5 | 9 ⁰ 47 | 14 ⁰ 34 | 16 ⁰ 3 | 8 ⁰ 27 | 3 ⁰ 23 | |
| S 30 | 20 31 24 | 7 ⁰ 3'02 | 19 ⁰ 7 | 2 ⁰ 20 | 23 ⁰ 59 | 6 ⁰ 30 | 1 ⁰ 19 | 26 ⁰ 42 | 27 ⁰ 36 | 8 ⁰ 3 | 9 ⁰ 47 | 14 ⁰ 31 | 16 ⁰ 0 | 8 ⁰ 33 | 3 ⁰ 28 | |
| S 31 | 20 35 20 | 8 ⁰ 0'24 | 4 ⁰ 8 | 4 ⁰ 26 | 24 ⁰ 41 | 6 ⁰ 50 | 1 ^{II} 28 | 26 ⁰ 39 | 27 ⁰ 34 | 8 ⁰ 2 | 9 ⁰ 48 | 14 ⁰ 29 | 15 ⁰ 57 | 8 ⁰ 40 | 3 ⁰ 33 | |

Delta T = 56.06 sec.

Août 1988

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| Jour | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♂ | ♆ |
|------|----------|-----------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|---|
| M 1 | 20 39 17 | 8 ⁰ 57'46 | 19 ¹ 3 | 6 ⁰ 32 | 25 ^{II} 24 | 7 ⁰ 10 | 1 ^{II} 37 | 26 ^R 36 | 27 ^R 33 | 8 ^R 1 | 9 ⁰ 48 | 14 ^D 28 | 15 ¹ 53 | 8 ⁰ 46 | 3 ⁰ 38 | |
| T 2 | 20 43 13 | 9 ⁰ 55'09 | 3 ⁰ 43 | 8 ⁰ 38 | 26 ⁰ 8 | 7 ⁰ 28 | 1 ⁰ 46 | 26 ¹ 34 | 27 ¹ 31 | 7 ⁰ 59 | 9 ⁰ 48 | 14 ¹ 29 | 15 ⁰ 50 | 8 ⁰ 53 | 3 ⁰ 43 | |
| W 3 | 20 47 10 | 10 ⁰ 52'34 | 18 ⁰ 4 | 10 ⁰ 43 | 26 ⁰ 53 | 7 ⁰ 47 | 1 ⁰ 55 | 26 ⁰ 31 | 27 ⁰ 30 | 7 ⁰ 58 | 9 ⁰ 49 | 14 ⁰ 31 | 15 ⁰ 47 | 9 ⁰ 0 | 3 ⁰ 48 | |
| T 4 | 20 51 6 | 11 ⁰ 50'00 | 2 ⁰ 5 | 12 ⁰ 47 | 27 ⁰ 39 | 8 ⁰ 4 | 2 ⁰ 4 | 26 ⁰ 29 | 27 ⁰ 28 | 7 ⁰ 57 | 9 ⁰ 49 | 14 ⁰ 32 | 15 ⁰ 44 | 9 ⁰ 6 | 3 ⁰ 53 | |
| F 5 | 20 55 3 | 12 ⁰ 47'27 | 15 ⁰ 44 | 14 ⁰ 50 | 28 ⁰ 26 | 8 ⁰ 21 | 2 ⁰ 13 | 26 ⁰ 26 | 27 ⁰ 27 | 7 ⁰ 55 | 9 ⁰ 50 | 14 ^R 32 | 15 ⁰ 41 | 9 ⁰ 13 | 3 ⁰ 58 | |
| S 6 | 20 58 59 | 13 ⁰ 44'55 | 29 ⁰ 4 | 16 ⁰ 52 | 29 ⁰ 13 | 8 ⁰ 37 | 2 ⁰ 21 | 26 ⁰ 24 | 27 ⁰ 25 | 7 ⁰ 54 | 9 ⁰ 50 | 14 ⁰ 31 | 15 ⁰ 37 | 9 ⁰ 20 | 4 ⁰ 2 | |
| S 7 | 21 2 56 | 14 ⁰ 42'25 | 12 ⁰ 5 | 18 ⁰ 53 | 0 ⁰ 1 | 8 ⁰ 53 | 2 ⁰ 30 | 26 ⁰ 22 | 27 ⁰ 24 | 7 ⁰ 53 | 9 ⁰ 51 | 14 ⁰ 29 | 15 ⁰ 34 | 9 ⁰ 26 | 4 ⁰ 7 | |
| M 8 | 21 6 53 | 15 ⁰ 39'56 | 24 ⁰ 50 | 20 ⁰ 53 | 0 ⁰ 50 | 9 ⁰ 8 | 2 ⁰ 38 | 26 ⁰ 20 | 27 ⁰ 22 | 7 ⁰ 52 | 9 ⁰ 52 | 14 ⁰ 25 | 15 ⁰ 31 | 9 ⁰ 33 | 4 ⁰ 12 | |
| T 9 | 21 10 49 | 16 ⁰ 37'28 | 7 ⁰ 20 | 22 ⁰ 51 | 1 ⁰ 40 | 9 ⁰ 22 | 2 ⁰ 46 | 26 ⁰ 18 | 27 ⁰ 21 | 7 ⁰ 51 | 9 ⁰ 52 | 14 ⁰ 21 | 15 ⁰ 28 | 9 ⁰ 40 | 4 ⁰ 16 | |
| W 10 | 21 14 46 | 17 ⁰ 35'02 | 19 ⁰ 39 | 24 ⁰ 48 | 2 ⁰ 30 | 9 ⁰ 36 | 2 ⁰ 54 | 26 ⁰ 16 | 27 ⁰ 20 | 7 ⁰ 49 | 9 ⁰ 53 | 14 ⁰ 17 | 15 ⁰ 25 | 9 ⁰ 46 | 4 ⁰ 21 | |
| T 11 | 21 18 42 | 18 ⁰ 32'37 | 1 ⁰ 48 | 26 ⁰ 44 | 3 ⁰ 21 | 9 ⁰ 48 | 3 ⁰ 2 | 26 ⁰ 14 | 27 ⁰ 19 | 7 ⁰ 48 | 9 ⁰ 54 | 14 ⁰ 12 | 15 ⁰ 22 | 9 ⁰ 53 | 4 ⁰ 25 | |
| F 12 | 21 22 39 | 19 ⁰ 30'13 | 13 ⁰ 48 | 28 ⁰ 38 | 4 ⁰ 13 | 10 ⁰ 1 | 3 ⁰ 10 | 26 ⁰ 12 | 27 ⁰ 17 | 7 ⁰ 47 | 9 ⁰ 54 | 14 ⁰ 9 | 15 ⁰ 18 | 10 ⁰ 0 | 4 ⁰ 30 | |
| S 13 | 21 26 35 | 20 ⁰ 27'50 | 25 ⁰ 41 | 0 ⁰ 30 | 5 ⁰ 6 | 10 ⁰ 12 | 3 ⁰ 18 | 26 ⁰ 10 | 27 ⁰ 16 | 7 ⁰ 46 | 9 ⁰ 55 | 14 ⁰ 7 | 15 ⁰ 15 | 10 ⁰ 6 | 4 ⁰ 34 | |
| S 14 | 21 30 32 | 21 ⁰ 25'28 | 7 ⁰ 30 | 2 ⁰ 22 | 5 ⁰ 59 | 10 ⁰ 22 | 3 ⁰ 25 | 26 ⁰ 9 | 27 ⁰ 15 | 7 ⁰ 45 | 9 ⁰ 56 | 14 ⁰ 5 | 15 ⁰ 12 | 10 ⁰ 13 | 4 ⁰ 39 | |
| M 15 | 21 34 29 | 22 ⁰ 23'08 | 19 ⁰ 16 | 4 ⁰ 11 | 6 ⁰ 52 | 10 ⁰ 32 | 3 ⁰ 33 | 26 ⁰ 7 | 27 ⁰ 14 | 7 ⁰ 44 | 9 ⁰ 57 | 14 ^D 5 | 15 ⁰ 9 | 10 ⁰ 20 | 4 ⁰ 43 | |
| T 16 | 21 38 25 | 23 ⁰ 20'48 | 1 ⁰ 3 | 5 ⁰ 59 | 7 ⁰ 46 | 10 ⁰ 41 | 3 ⁰ 40 | 26 ⁰ 6 | 27 ⁰ 13 | 7 ⁰ 43 | 9 ⁰ 58 | 14 ⁰ 6 | 15 ⁰ 6 | 10 ⁰ 26 | 4 ⁰ 47 | |
| W 17 | 21 42 22 | 24 ⁰ 18'30 | 12 ⁰ 54 | 7 ⁰ 46 | 8 ⁰ 41 | 10 ⁰ 50 | 3 ⁰ 47 | 26 ⁰ 4 | 27 ⁰ 12 | 7 ⁰ 42 | 9 ⁰ 59 | 14 ⁰ 7 | 15 ⁰ 3 | 10< | | |

SWISS Éphémérides pour l'année 1988 à 00h00 TU

Septembre 1988

00:00 UT

| Jour | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|--------|--------|--------|-------|--------|--------|-------|-------|--------|-------|-------|------|
| T 1 | 22 41 30 | 8♎46'22 | 11♏36 | 1♋39 | 23♄16 | 11°R16 | 5♂13 | 25♂56 | 27°R 3 | 7°R30 | 10♎16 | 14♋6 | 14♋15 | 12♎12 | 5♄49 |
| F 2 | 22 45 26 | 9°44'26 | 25°24 | 3° 3 | 24°17 | 11°V11 | 5°18 | 25°56 | 27°R 3 | 7♄30 | 10°18 | 14° 6 | 14°12 | 12°19 | 5°53 |
| S 3 | 22 49 23 | 10°42'32 | 8♂46 | 4°26 | 25°19 | 11° 5 | 5°22 | 25°56 | 27° 3 | 7°29 | 10°19 | 14°R 6 | 14° 9 | 12°26 | 5°56 |
| S 4 | 22 53 20 | 11°40'40 | 21°44 | 5°48 | 26°21 | 10°58 | 5°26 | 25°57 | 27° 3 | 7°29 | 10°21 | 14° 6 | 14° 5 | 12°32 | 5°59 |
| M 5 | 22 57 16 | 12°38'50 | 4♄23 | 7° 8 | 27°24 | 10°51 | 5°30 | 25°57 | 27°D 3 | 7°28 | 10°22 | 14° 6 | 14° 2 | 12°39 | 6° 2 |
| T 6 | 23 1 13 | 13°37'02 | 16°44 | 8°27 | 28°26 | 10°42 | 5°34 | 25°58 | 27° 3 | 7°28 | 10°24 | 14°D 6 | 13°59 | 12°46 | 6° 6 |
| W 7 | 23 5 9 | 14°35'16 | 28°53 | 9°44 | 29°29 | 10°33 | 5°37 | 25°59 | 27° 3 | 7°27 | 10°25 | 14° 6 | 13°56 | 12°52 | 6° 9 |
| T 8 | 23 9 6 | 15°33'32 | 10♎51 | 10°59 | 0♎33 | 10°23 | 5°41 | 25°59 | 27° 3 | 7°27 | 10°27 | 14° 6 | 13°53 | 12°59 | 6°12 |
| F 9 | 23 13 2 | 16°31'49 | 22°43 | 12°13 | 1°36 | 10°13 | 5°44 | 26° 0 | 27° 3 | 7°27 | 10°29 | 14° 6 | 13°49 | 13° 6 | 6°15 |
| S 10 | 23 16 59 | 17°30'09 | 4♎31 | 13°25 | 2°40 | 10° 2 | 5°47 | 26° 1 | 27° 3 | 7°26 | 10°30 | 14° 7 | 13°46 | 13°12 | 6°17 |
| S 11 | 23 20 55 | 18°28'30 | 16°18 | 14°35 | 3°44 | 9°50 | 5°49 | 26° 2 | 27° 3 | 7°26 | 10°32 | 14°R 7 | 13°43 | 13°19 | 6°20 |
| M12 | 23 24 52 | 19°26'53 | 28° 6 | 15°43 | 4°49 | 9°37 | 5°52 | 26° 3 | 27° 4 | 7°26 | 10°34 | 14° 6 | 13°40 | 13°26 | 6°23 |
| T 13 | 23 28 49 | 20°25'18 | 9♄57 | 16°49 | 5°54 | 9°24 | 5°54 | 26° 5 | 27° 4 | 7°26 | 10°35 | 14° 6 | 13°37 | 13°32 | 6°26 |
| W14 | 23 32 45 | 21°23'45 | 21°54 | 17°52 | 6°58 | 9°10 | 5°57 | 26° 6 | 27° 5 | 7°26 | 10°37 | 14° 5 | 13°34 | 13°39 | 6°28 |
| T 15 | 23 36 42 | 22°22'14 | 3♎59 | 18°54 | 8° 4 | 8°55 | 5°59 | 26° 8 | 27° 5 | 7°25 | 10°39 | 14° 4 | 13°30 | 13°45 | 6°31 |
| F 16 | 23 40 38 | 23°20'44 | 16°15 | 19°53 | 9° 9 | 8°40 | 6° 0 | 26° 9 | 27° 6 | 7°25 | 10°41 | 14° 3 | 13°27 | 13°52 | 6°33 |
| S 17 | 23 44 35 | 24°19'16 | 28°44 | 20°49 | 10°15 | 8°25 | 6° 2 | 26°11 | 27° 6 | 7°25 | 10°42 | 14° 2 | 13°24 | 13°59 | 6°35 |
| S 18 | 23 48 31 | 25°17'50 | 11♂29 | 21°43 | 11°21 | 8° 9 | 6° 3 | 26°13 | 27° 7 | 7°25 | 10°44 | 14° 1 | 13°21 | 14° 5 | 6°38 |
| M19 | 23 52 28 | 26°16'25 | 24°35 | 22°33 | 12°27 | 7°53 | 6° 5 | 26°14 | 27° 7 | 7°D25 | 10°46 | 14°D 1 | 13°18 | 14°12 | 6°40 |
| T 20 | 23 56 24 | 27°15'02 | 8♄2 | 23°20 | 13°33 | 7°36 | 6° 6 | 26°16 | 27° 8 | 7°25 | 10°48 | 14° 1 | 13°15 | 14°19 | 6°42 |
| W21 | 0 0 21 | 28°13'41 | 21°54 | 24° 3 | 14°39 | 7°19 | 6° 7 | 26°18 | 27° 9 | 7°25 | 10°50 | 14° 1 | 13°11 | 14°25 | 6°44 |
| T 22 | 0 4 18 | 29°12'21 | 6♁10 | 24°43 | 15°46 | 7° 2 | 6° 7 | 26°21 | 27°10 | 7°25 | 10°52 | 14° 3 | 13° 8 | 14°32 | 6°46 |
| F 23 | 0 8 14 | 0♎11'03 | 20°48 | 25°19 | 16°53 | 6°45 | 6° 8 | 26°23 | 27°11 | 7°25 | 10°54 | 14° 4 | 13° 5 | 14°39 | 6°48 |
| S 24 | 0 12 11 | 1° 9'47 | 5♋44 | 25°50 | 18° 0 | 6°27 | 6° 8 | 26°25 | 27°12 | 7°26 | 10°56 | 14° 4 | 13° 2 | 14°45 | 6°50 |
| S 25 | 0 16 7 | 2° 8'33 | 20°51 | 26°16 | 19° 8 | 6° 9 | 6°R 8 | 26°28 | 27°12 | 7°26 | 10°58 | 14°R 4 | 12°59 | 14°52 | 6°52 |
| M26 | 0 20 4 | 3° 7'20 | 6°V 0 | 26°36 | 20°15 | 5°52 | 6° 8 | 26°30 | 27°14 | 7°26 | 11° 0 | 14° 4 | 12°55 | 14°59 | 6°53 |
| T 27 | 0 24 0 | 4° 6'09 | 21° 3 | 26°52 | 21°23 | 5°34 | 6° 7 | 26°33 | 27°15 | 7°26 | 11° 2 | 14° 2 | 12°52 | 15° 5 | 6°55 |
| W28 | 0 27 57 | 5° 5'01 | 5♄50 | 27° 1 | 22°31 | 5°16 | 6° 7 | 26°35 | 27°16 | 7°27 | 11° 4 | 13°59 | 12°49 | 15°12 | 6°56 |
| T 29 | 0 31 53 | 6° 3'55 | 20°14 | 27°R 3 | 23°39 | 4°59 | 6° 6 | 26°38 | 27°17 | 7°27 | 11° 6 | 13°56 | 12°46 | 15°19 | 6°58 |
| F 30 | 0 35 50 | 7° 2'51 | 4♂11 | 26° 59 | 24° 47 | 4°V41 | 6♂ 5 | 26° 41 | 27° 18 | 7♄27 | 11♎ 8 | 13♋53 | 12♋43 | 15♎25 | 6♄59 |

Delta T = 56.14 sec.

Octobre 1988

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| Jour | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|--------|--------|-------|--------|-------|--------|--------|------|-------|--------|-------|-------|-------|
| S 1 | 0 39 47 | 8♎1'49 | 17♂41 | 26°R48 | 25♎56 | 4°R24 | 6°R 4 | 26° 44 | 27° 19 | 7♄28 | 11♎10 | 13°R51 | 12♋40 | 15♎32 | 7♄ 1 |
| S 2 | 0 43 43 | 9° 0'50 | 0♄44 | 26° 29 | 27° 4 | 4°V 7 | 6♂ 2 | 26°47 | 27°21 | 7°28 | 11°12 | 13♋50 | 12°36 | 15°38 | 7° 2 |
| M 3 | 0 47 40 | 9°59'53 | 13°22 | 26° 2 | 28°13 | 3°50 | 6° 1 | 26°50 | 27°22 | 7°29 | 11°14 | 13°D49 | 12°33 | 15°45 | 7° 3 |
| T 4 | 0 51 36 | 10°58'58 | 25°42 | 25°28 | 29°22 | 3°33 | 5°59 | 26°53 | 27°23 | 7°29 | 11°16 | 13°50 | 12°30 | 15°52 | 7° 4 |
| W 5 | 0 55 33 | 11°58'06 | 7♎46 | 24°46 | 0♎31 | 3°17 | 5°57 | 26°57 | 27°25 | 7°30 | 11°19 | 13°52 | 12°27 | 15°58 | 7° 5 |
| T 6 | 0 59 29 | 12°57'16 | 19°40 | 23°56 | 1°40 | 3° 1 | 5°55 | 27° 0 | 27°26 | 7°30 | 11°21 | 13°53 | 12°24 | 16° 5 | 7° 6 |
| F 7 | 1 3 26 | 13°56'28 | 1♎28 | 23° 0 | 2°50 | 2°45 | 5°52 | 27° 3 | 27°28 | 7°31 | 11°23 | 13°55 | 12°20 | 16°12 | 7° 7 |
| S 8 | 1 7 22 | 14°55'42 | 13°14 | 21°58 | 3°59 | 2°30 | 5°50 | 27° 7 | 27°30 | 7°31 | 11°25 | 13°R56 | 12°17 | 16°18 | 7° 7 |
| S 9 | 1 11 19 | 15°54'58 | 25° 2 | 20°51 | 5° 9 | 2°16 | 5°47 | 27°11 | 27°31 | 7°32 | 11°27 | 13°55 | 12°14 | 16°25 | 7° 8 |
| M10 | 1 15 16 | 16°54'17 | 6♎55 | 19°41 | 6°19 | 2° 2 | 5°44 | 27°14 | 27°33 | 7°33 | 11°30 | 13°53 | 12°11 | 16°32 | 7° 9 |
| T 11 | 1 19 12 | 17°53'38 | 18°54 | 18°29 | 7°29 | 1°49 | 5°41 | 27°18 | 27°35 | 7°33 | 11°32 | 13°49 | 12° 8 | 16°38 | 7° 9 |
| W12 | 1 23 9 | 18°53'00 | 1♎ 2 | 17°18 | 8°39 | 1°36 | 5°37 | 27°22 | 27°37 | 7°34 | 11°34 | 13°43 | 12° 5 | 16°45 | 7° 9 |
| T 13 | 1 27 5 | 19°52'25 | 13°20 | 16°10 | 9°49 | 1°24 | 5°34 | 27°26 | 27°38 | 7°35 | 11°36 | 13°37 | 12° 1 | 16°52 | 7°10 |
| F 14 | 1 31 2 | 20°51'52 | 25°49 | 15° 5 | 11° 0 | 1°13 | 5°30 | 27°30 | 27°40 | 7°36 | 11°39 | 13°30 | 11°58 | 16°58 | 7°10 |
| S 15 | 1 34 58 | 21°51'21 | 8♂30 | 14° 7 | 12°10 | 1° 2 | 5°26 | 27°34 | 27°42 | 7°36 | 11°41 | 13°24 | 11°55 | 17° 5 | 7°10 |
| S 16 | 1 38 55 | 22°50'51 | 21°24 | 13°17 | 13°21 | 0°52 | 5°22 | 27°38 | 27°44 | 7°37 | 11°43 | 13°19 | 11°52 | 17°11 | 7°R10 |
| M17 | 1 42 51 | 23°50'23 | 4♄33 | 12°37 | 14°32 | 0°43 | 5°18 | 27°43 | 27°46 | 7°38 | 11°46 | 13°15 | 11°49 | 17°18 | 7°10 |
| T 18 | 1 46 48 | 24°49'57 | 17°58 | 12° 7 | 15°43 | 0°34 | 5°13 | 27°47 | 27°48 | 7°39 | 11°48 | 13°13 | 11°46 | 17°25 | 7°10 |
| W19 | 1 50 45 | 25°49'33 | 1♁41 | 11°47 | 16°54 | 0°26 | 5° 9 | 27°51 | 27°50 | 7°40 | 11°50 | 13°D13 | 11°42 | 17°31 | 7°10 |
| T 20 | 1 54 41 | 26°49'11 | 15°42 | 11°D39 | 18° 5 | 0°20 | 5° 4 | 27°56 | 27°53 | 7°41 | 11°53 | 13°14 | 11°39 | 17°38 | 7°10 |
| F 21 | 1 58 38 | 27°48'50 | 0♋ 1 | 11°42 | 19°16 | 0°13 | 4°59 | 28° 1 | 27°55 | 7°42 | 11°55 | 13°16 | 11°36 | 17°45 | 7° 9 |
| S 22 | 2 2 34 | 28°48'31 | 14°36 | 11°56 | 20°27 | 0° 8 | 4°54 | 28° 5 | 27°57 | 7°43 | 11°58 | 13°R16 | 11°33 | 17°51 | 7° 9 |
| S 23 | 2 6 31 | 29°48'13 | 29°24 | 12°20 | 21°39 | 0° 3 | 4°48 | 28°10 | 27°59 | 7°44 | 12° 0 | 13°15 | 11°30 | 17°58 | 7° 8 |
| M24 | 2 10 27 | 0♎47'57 | 14°V17 | 12°54 | 22°50 | 29♋59 | 4°43 | 28°15 | 28° 2 | 7°45 | 12° 2 | 13°12 | 11°26 | 18° 5 | 7° 8 |
| T 25 | 2 14 24 | 1°47'44 | 29° 9 | 13°37 | 24° 2 | 29°57 | 4°37 | 28°20 | 28° 4 | 7°47 | 12° 5 | 13° 6 | 11°23 | 18°11 | 7° 7 |
| W26 | 2 18 20 | 2°47'32 | 13♄52 | 14°28 | 25°14 | 29°55 | 4°31 | 28°24 | 28° 6 | 7°48 | 12° 7 | 12°59 | 11°20 | 18°18 | 7° 6 |
| T 27 | 2 22 17 | 3°47'22 | 28°16 | 15°26 | 26°26 | 29°53 | 4°25 | 28°29 | 28° 9 | 7°49 | 12° 9 | 12°51 | 11°17 | 18°25 | 7° 5 |
| F 28 | 2 26 14 | 4°47'14 | 12♂17 | 16°30 | 27°38 | 29°D53 | 4°19 | 28°34 | 28°11 | 7°50 | 12°12 | 12°42 | 11°14 | 18°31 | 7° 4 |
| S 29 | 2 30 10 | 5°47'09 | 25°52 | 17°40 | 28°50 | 29°53 | 4°13 | 28°40 | 28°14 | 7°52 | 12°14 | 12°35 | 11°11 | 18°38 | 7° 3 |
| S 30 | 2 34 7 | 6°47'06 | 9♄ 0 | 18°54 | 0♎ 2 | 29°54 | 4° 6 | 28°45 | 28°16 | 7°53 | 12°17 | 12°29 | 11° 7 | 18°45 | 7° 2 |
| M31 | 2 38 3 | 7♎47'05 | 21♄42 | 20° 13 | 1° 14 | 29♋56 | 4♂ 0 | 28° 50 | 28° 19 | 7♄54 | 12♎19 | 12♋26 | 11♋ 4 | 18♎51 | 7♄ 1 |

Delta T = 56.18 sec.

SWISS Éphémérides pour l'année 1988 à 00h00 TU

Novembre 1988

00:00 UT

| Jour | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|------|-------|--------|-------|-------|-------|
| T 1 | 2 42 0 | 8♁47'06 | 4♁ 3 | 21♁35 | 2♁27 | 29♁58 | 3°R53 | 28♁55 | 28♁22 | 7♁55 | 12♁22 | 12°D24 | 11♁ 1 | 18♁58 | 7°R 0 |
| W 2 | 2 45 56 | 9°47'09 | 16° 8 | 23° 0 | 3°39 | 0°Y 2 | 3♁46 | 29° 1 | 28°24 | 7°57 | 12°24 | 12♁24 | 10°58 | 19° 4 | 6♁59 |
| T 3 | 2 49 53 | 10°47'14 | 28° 1 | 24°28 | 4°52 | 0° 6 | 3°40 | 29° 6 | 28°27 | 7°58 | 12°26 | 12°25 | 10°55 | 19°11 | 6°57 |
| F 4 | 2 53 49 | 11°47'21 | 9♁49 | 25°58 | 6° 4 | 0°11 | 3°33 | 29°12 | 28°30 | 8° 0 | 12°29 | 12°R26 | 10°52 | 19°18 | 6°56 |
| S 5 | 2 57 46 | 12°47'30 | 21°35 | 27°29 | 7°17 | 0°16 | 3°25 | 29°17 | 28°32 | 8° 1 | 12°31 | 12°25 | 10°48 | 19°24 | 6°54 |
| S 6 | 3 1 43 | 13°47'42 | 3♁26 | 29° 2 | 8°30 | 0°23 | 3°18 | 29°23 | 28°35 | 8° 3 | 12°34 | 12°23 | 10°45 | 19°31 | 6°52 |
| M 7 | 3 5 39 | 14°47'55 | 15°25 | 0♁35 | 9°43 | 0°30 | 3°11 | 29°28 | 28°38 | 8° 4 | 12°36 | 12°18 | 10°42 | 19°38 | 6°51 |
| T 8 | 3 9 36 | 15°48'10 | 27°34 | 2°10 | 10°56 | 0°37 | 3° 3 | 29°34 | 28°41 | 8° 6 | 12°39 | 12°10 | 10°39 | 19°44 | 6°49 |
| W 9 | 3 13 32 | 16°48'27 | 9♁55 | 3°45 | 12° 9 | 0°46 | 2°56 | 29°40 | 28°44 | 8° 7 | 12°41 | 12° 0 | 10°36 | 19°51 | 6°47 |
| T 10 | 3 17 29 | 17°48'46 | 22°30 | 5°21 | 13°22 | 0°55 | 2°48 | 29°46 | 28°47 | 8° 9 | 12°43 | 11°48 | 10°32 | 19°58 | 6°45 |
| F 11 | 3 21 25 | 18°49'07 | 5♁19 | 6°57 | 14°35 | 1° 5 | 2°40 | 29°52 | 28°50 | 8°10 | 12°46 | 11°36 | 10°29 | 20° 4 | 6°43 |
| S 12 | 3 25 22 | 19°49'29 | 18°20 | 8°33 | 15°48 | 1°16 | 2°33 | 29°58 | 28°53 | 8°12 | 12°48 | 11°24 | 10°26 | 20°11 | 6°41 |
| S 13 | 3 29 18 | 20°49'53 | 1♁33 | 10°10 | 17° 2 | 1°27 | 2°25 | 0♁ 4 | 28°56 | 8°14 | 12°51 | 11°14 | 10°23 | 20°18 | 6°39 |
| M 14 | 3 33 15 | 21°50'18 | 14°57 | 11°46 | 18°15 | 1°39 | 2°17 | 0°10 | 28°59 | 8°15 | 12°53 | 11° 6 | 10°20 | 20°24 | 6°36 |
| T 15 | 3 37 12 | 22°50'45 | 28°31 | 13°23 | 19°29 | 1°52 | 2° 9 | 0°16 | 29° 2 | 8°17 | 12°56 | 11° 1 | 10°17 | 20°31 | 6°34 |
| W 16 | 3 41 8 | 23°51'13 | 12♁15 | 14°59 | 20°42 | 2° 5 | 2° 1 | 0°22 | 29° 5 | 8°19 | 12°58 | 10°59 | 10°13 | 20°38 | 6°32 |
| T 17 | 3 45 5 | 24°51'42 | 26°10 | 16°35 | 21°56 | 2°19 | 1°53 | 0°28 | 29° 8 | 8°21 | 13° 0 | 10°D59 | 10°10 | 20°44 | 6°29 |
| F 18 | 3 49 1 | 25°52'13 | 10♁15 | 18°11 | 23° 9 | 2°33 | 1°45 | 0°34 | 29°11 | 8°22 | 13° 3 | 10°R59 | 10° 7 | 20°51 | 6°27 |
| S 19 | 3 52 58 | 26°52'44 | 24°30 | 19°47 | 24°23 | 2°48 | 1°37 | 0°41 | 29°14 | 8°24 | 13° 5 | 10°58 | 10° 4 | 20°57 | 6°24 |
| S 20 | 3 56 54 | 27°53'17 | 8°Y53 | 21°23 | 25°37 | 3° 4 | 1°28 | 0°47 | 29°18 | 8°26 | 13° 7 | 10°56 | 10° 1 | 21° 4 | 6°21 |
| M 21 | 4 0 51 | 28°53'51 | 23°21 | 22°59 | 26°50 | 3°20 | 1°20 | 0°53 | 29°21 | 8°28 | 13°10 | 10°51 | 9°58 | 21°11 | 6°19 |
| T 22 | 4 4 47 | 29°54'27 | 7♁49 | 24°35 | 28° 4 | 3°37 | 1°12 | 1° 0 | 29°24 | 8°30 | 13°12 | 10°42 | 9°54 | 21°17 | 6°16 |
| W 23 | 4 8 44 | 0♁55'04 | 22°11 | 26°10 | 29°18 | 3°54 | 1° 4 | 1° 6 | 29°27 | 8°32 | 13°15 | 10°32 | 9°51 | 21°24 | 6°13 |
| T 24 | 4 12 41 | 1°55'42 | 6♁21 | 27°45 | 0♁32 | 4°12 | 0°56 | 1°13 | 29°31 | 8°34 | 13°17 | 10°19 | 9°48 | 21°31 | 6°10 |
| F 25 | 4 16 37 | 2°56'22 | 20°13 | 29°20 | 1°46 | 4°30 | 0°48 | 1°19 | 29°34 | 8°35 | 13°19 | 10° 7 | 9°45 | 21°37 | 6° 7 |
| S 26 | 4 20 34 | 3°57'03 | 3♁43 | 0♁55 | 3° 0 | 4°49 | 0°39 | 1°26 | 29°37 | 8°37 | 13°22 | 9°55 | 9°42 | 21°44 | 6° 4 |
| S 27 | 4 24 30 | 4°57'45 | 16°50 | 2°30 | 4°14 | 5° 8 | 0°31 | 1°32 | 29°41 | 8°39 | 13°24 | 9°46 | 9°38 | 21°51 | 6° 1 |
| M 28 | 4 28 27 | 5°58'29 | 29°33 | 4° 4 | 5°28 | 5°28 | 0°23 | 1°39 | 29°44 | 8°41 | 13°26 | 9°39 | 9°35 | 21°57 | 5°58 |
| T 29 | 4 32 23 | 6°59'15 | 11♁56 | 5°39 | 6°43 | 5°48 | 0°15 | 1°45 | 29°47 | 8°43 | 13°28 | 9°34 | 9°32 | 22° 4 | 5°55 |
| W 30 | 4 36 20 | 8° 0'02 | 24♁ 2 | 7♁13 | 7♁57 | 6°Y 8 | 0°II 7 | 1♁52 | 29°51 | 8♁45 | 13♁31 | 9♁33 | 9♁29 | 22♁11 | 5♁52 |

Delta T = 56.22 sec.

Décembre 1988

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|------|---------|----------|-------|-------|-------|--------|--------|------|-------|------|-------|-------|------|-------|-------|
| T 1 | 4 40 16 | 9♁ 0'50 | 5♁56 | 8♁48 | 9♁11 | 6°Y30 | 29°R59 | 1♁59 | 29°54 | 8♁47 | 13♁33 | 9°R32 | 9♁26 | 22♁17 | 5°R48 |
| F 2 | 4 44 13 | 10° 1'40 | 17°45 | 10°22 | 10°25 | 6°51 | 29°S51 | 2° 6 | 29°58 | 8°49 | 13°35 | 9♁32 | 9°23 | 22°24 | 5♁45 |
| S 3 | 4 48 10 | 11° 2'31 | 29°32 | 11°56 | 11°40 | 7°13 | 29°43 | 2°12 | 0♁ 1 | 8°51 | 13°37 | 9°31 | 9°19 | 22°31 | 5°42 |
| S 4 | 4 52 6 | 12° 3'24 | 11♁25 | 13°30 | 12°54 | 7°35 | 29°35 | 2°19 | 0° 5 | 8°53 | 13°40 | 9°28 | 9°16 | 22°37 | 5°38 |
| M 5 | 4 56 3 | 13° 4'18 | 23°28 | 15° 5 | 14° 9 | 7°58 | 29°28 | 2°26 | 0° 8 | 8°56 | 13°42 | 9°23 | 9°13 | 22°44 | 5°35 |
| T 6 | 4 59 59 | 14° 5'13 | 5♁44 | 16°39 | 15°23 | 8°21 | 29°20 | 2°33 | 0°12 | 8°58 | 13°44 | 9°15 | 9°10 | 22°50 | 5°31 |
| W 7 | 5 3 56 | 15° 6'10 | 18°17 | 18°13 | 16°38 | 8°45 | 29°12 | 2°40 | 0°15 | 9° 0 | 13°46 | 9° 4 | 9° 7 | 22°57 | 5°28 |
| T 8 | 5 7 52 | 16° 7'07 | 1♁ 7 | 19°47 | 17°52 | 9° 8 | 29° 5 | 2°46 | 0°19 | 9° 2 | 13°48 | 8°51 | 9° 4 | 23° 4 | 5°24 |
| F 9 | 5 11 49 | 17° 8'06 | 14°16 | 21°21 | 19° 7 | 9°33 | 28°57 | 2°53 | 0°22 | 9° 4 | 13°50 | 8°38 | 9° 0 | 23°10 | 5°21 |
| S 10 | 5 15 45 | 18° 9'06 | 27°41 | 22°56 | 20°21 | 9°57 | 28°50 | 3° 0 | 0°26 | 9° 6 | 13°53 | 8°24 | 8°57 | 23°17 | 5°17 |
| S 11 | 5 19 42 | 19°10'06 | 11♁19 | 24°30 | 21°36 | 10°22 | 28°43 | 3° 7 | 0°29 | 9° 8 | 13°55 | 8°13 | 8°54 | 23°24 | 5°13 |
| M 12 | 5 23 39 | 20°11'07 | 25° 7 | 26° 4 | 22°51 | 10°48 | 28°36 | 3°14 | 0°33 | 9°10 | 13°57 | 8° 4 | 8°51 | 23°30 | 5° 9 |
| T 13 | 5 27 35 | 21°12'09 | 9♁ 3 | 27°39 | 24° 5 | 11°13 | 28°29 | 3°21 | 0°37 | 9°13 | 13°59 | 7°59 | 8°48 | 23°37 | 5° 6 |
| W 14 | 5 31 32 | 22°13'12 | 23° 3 | 29°13 | 25°20 | 11°39 | 28°22 | 3°28 | 0°40 | 9°15 | 14° 1 | 7°56 | 8°44 | 23°44 | 5° 2 |
| T 15 | 5 35 28 | 23°14'14 | 7♁ 6 | 0♁48 | 26°35 | 12° 5 | 28°15 | 3°35 | 0°44 | 9°17 | 14° 3 | 7°D55 | 8°41 | 23°50 | 4°58 |
| F 16 | 5 39 25 | 24°15'18 | 21°10 | 2°22 | 27°49 | 12°32 | 28° 8 | 3°42 | 0°47 | 9°19 | 14° 5 | 7°R55 | 8°38 | 23°57 | 4°54 |
| S 17 | 5 43 21 | 25°16'21 | 5°Y15 | 3°57 | 29° 4 | 12°59 | 28° 2 | 3°49 | 0°51 | 9°21 | 14° 7 | 7°55 | 8°35 | 24° 4 | 4°50 |
| S 18 | 5 47 18 | 26°17'25 | 19°20 | 5°32 | 0♁19 | 13°26 | 27°56 | 3°56 | 0°55 | 9°24 | 14° 9 | 7°53 | 8°32 | 24°10 | 4°47 |
| M 19 | 5 51 14 | 27°18'29 | 3♁24 | 7° 7 | 1°34 | 13°54 | 27°49 | 4° 3 | 0°58 | 9°26 | 14°11 | 7°48 | 8°29 | 24°17 | 4°43 |
| T 20 | 5 55 11 | 28°19'33 | 17°25 | 8°42 | 2°49 | 14°21 | 27°43 | 4°10 | 1° 2 | 9°28 | 14°13 | 7°41 | 8°25 | 24°24 | 4°39 |
| W 21 | 5 59 8 | 29°20'38 | 1♁19 | 10°16 | 4° 3 | 14°49 | 27°37 | 4°18 | 1° 5 | 9°30 | 14°14 | 7°31 | 8°22 | 24°30 | 4°35 |
| T 22 | 6 3 4 | 0♁21'44 | 15° 3 | 11°51 | 5°18 | 15°17 | 27°32 | 4°25 | 1° 9 | 9°33 | 14°16 | 7°20 | 8°19 | 24°37 | 4°31 |
| F 23 | 6 7 1 | 1°22'49 | 28°34 | 13°26 | 6°33 | 15°46 | 27°26 | 4°32 | 1°13 | 9°35 | 14°18 | 7° 8 | 8°16 | 24°44 | 4°27 |
| S 24 | 6 10 57 | 2°23'55 | 11♁48 | 15° 1 | 7°48 | 16°15 | 27°21 | 4°39 | 1°16 | 9°37 | 14°20 | 6°57 | 8°13 | 24°50 | 4°23 |
| S 25 | 6 14 54 | 3°25'02 | 24°44 | 16°35 | 9° 3 | 16°44 | 27°15 | 4°46 | 1°20 | 9°39 | 14°22 | 6°48 | 8°10 | 24°57 | 4°19 |
| M 26 | 6 18 50 | 4°26'09 | 7♁21 | 18° 9 | 10°18 | 17°13 | 27°10 | 4°53 | 1°24 | 9°42 | 14°23 | 6°41 | 8° 6 | 25° 4 | 4°15 |
| T 27 | 6 22 47 | 5°27'16 | 19°41 | 19°43 | 11°33 | 17°42 | 27° 5 | 5° 0 | 1°27 | 9°44 | 14°25 | 6°37 | 8° 3 | 25°10 | 4°11 |
| W 28 | 6 26 44 | 6°28'24 | 1♁46 | 21°16 | 12°48 | 18°12 | 27° 1 | 5° 7 | 1°31 | 9°46 | 14°27 | 6°D35 | 8° 0 | 25°17 | 4° 7 |
| T 29 | 6 30 40 | 7°29'32 | 13°41 | 22°49 | 14° 3 | 18°42 | 26°56 | 5°14 | 1°34 | 9°48 | 14°29 | 6°36 | 7°57 | 25°23 | 4° 3 |
| F 30 | 6 34 37 | 8°30'40 | 25°30 | 24°21 | 15°18 | 19°12 | 26°52 | 5°21 | 1°38 | 9°51 | 14°30 | 6°36 | 7°54 | 25°30 | 3°59 |
| S 31 | 6 38 33 | 9♁31'49 | 7♁18 | 25♁52 | 16♁33 | 19°Y42 | 26♁48 | 5♁29 | 1♁42 | 9♁53 | 14♁32 | 6°R37 | 7♁50 | 25♁37 | 3♁56 |

Delta T = 56.26 sec.