

SWISS EPHEMERIS for the year 1830

JANUARY 1830

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|-------|-------|-------|-------|-------|--------|------|-------|------|--------|-------|------|-------|
| F 1 | 6 40 33 | 10♌ 8'36 | 25♋38 | 14♌15 | 27♎16 | 22♏57 | 29♎32 | 17°R13 | 4♌57 | 19♌55 | 6♍32 | 22♏ 8 | 23♏ 2 | 6♌ 4 | 2°R44 |
| S 2 | 6 44 30 | 11° 9'47 | 9♍44 | 15°53 | 28°14 | 23°37 | 29°46 | 17♏ 9 | 5° 0 | 19°57 | 6°32 | 22°R 9 | 22°59 | 6°10 | 2♌43 |
| S 3 | 6 48 26 | 12°10'57 | 23°48 | 17°32 | 29°12 | 24°17 | 29°59 | 17° 6 | 5° 4 | 19°59 | 6°32 | 22° 8 | 22°55 | 6°17 | 2°43 |
| M 4 | 6 52 23 | 13°12'06 | 7♌50 | 19°10 | 0♋ 9 | 24°56 | 0♌13 | 17° 2 | 5° 7 | 20° 1 | 6°33 | 22° 6 | 22°52 | 6°24 | 2°42 |
| T 5 | 6 56 19 | 14°13'16 | 21°50 | 20°49 | 1° 6 | 25°36 | 0°27 | 16°58 | 5°10 | 20° 4 | 6°33 | 22° 1 | 22°49 | 6°30 | 2°42 |
| W 6 | 7 0 16 | 15°14'25 | 5♏44 | 22°29 | 2° 2 | 26°16 | 0°40 | 16°55 | 5°14 | 20° 6 | 6°33 | 21°53 | 22°46 | 6°37 | 2°41 |
| T 7 | 7 4 12 | 16°15'33 | 19°30 | 24° 8 | 2°57 | 26°55 | 0°54 | 16°51 | 5°17 | 20° 8 | 6°34 | 21°43 | 22°43 | 6°44 | 2°41 |
| F 8 | 7 8 9 | 17°16'41 | 3♌ 5 | 25°48 | 3°52 | 27°35 | 1° 7 | 16°47 | 5°20 | 20°10 | 6°34 | 21°32 | 22°39 | 6°50 | 2°41 |
| S 9 | 7 12 6 | 18°17'49 | 16°26 | 27°28 | 4°46 | 28°15 | 1°21 | 16°43 | 5°24 | 20°13 | 6°34 | 21°20 | 22°36 | 6°57 | 2°40 |
| S 10 | 7 16 2 | 19°18'57 | 29°31 | 29° 8 | 5°40 | 28°54 | 1°34 | 16°39 | 5°27 | 20°15 | 6°35 | 21°10 | 22°33 | 7° 3 | 2°40 |
| M11 | 7 19 59 | 20°20'04 | 12♏18 | 0♋48 | 6°33 | 29°34 | 1°48 | 16°35 | 5°31 | 20°17 | 6°35 | 21° 1 | 22°30 | 7°10 | 2°40 |
| T 12 | 7 23 55 | 21°21'10 | 24°48 | 2°28 | 7°25 | 0♌14 | 2° 1 | 16°31 | 5°34 | 20°19 | 6°36 | 20°55 | 22°27 | 7°17 | 2°D40 |
| W13 | 7 27 52 | 22°22'17 | 7♏ 2 | 4° 8 | 8°16 | 0°54 | 2°14 | 16°27 | 5°37 | 20°22 | 6°36 | 20°52 | 22°24 | 7°23 | 2°40 |
| T 14 | 7 31 48 | 23°23'23 | 19° 3 | 5°48 | 9° 6 | 1°33 | 2°28 | 16°22 | 5°41 | 20°24 | 6°37 | 20°D51 | 22°20 | 7°30 | 2°40 |
| F 15 | 7 35 45 | 24°24'29 | 0♌55 | 7°27 | 9°56 | 2°13 | 2°41 | 16°18 | 5°44 | 20°26 | 6°37 | 20°51 | 22°17 | 7°37 | 2°40 |
| S 16 | 7 39 41 | 25°25'35 | 12°43 | 9° 6 | 10°45 | 2°53 | 2°54 | 16°14 | 5°48 | 20°29 | 6°38 | 20°52 | 22°14 | 7°43 | 2°40 |
| S 17 | 7 43 38 | 26°26'40 | 24°32 | 10°44 | 11°33 | 3°33 | 3° 7 | 16° 9 | 5°51 | 20°31 | 6°39 | 20°R53 | 22°11 | 7°50 | 2°41 |
| M18 | 7 47 35 | 27°27'45 | 6♏28 | 12°21 | 12°20 | 4°12 | 3°21 | 16° 5 | 5°55 | 20°33 | 6°39 | 20°52 | 22° 8 | 7°57 | 2°41 |
| T 19 | 7 51 31 | 28°28'50 | 18°35 | 13°57 | 13° 6 | 4°52 | 3°34 | 16° 0 | 5°58 | 20°35 | 6°40 | 20°50 | 22° 5 | 8° 3 | 2°41 |
| W20 | 7 55 28 | 29°29'54 | 0♌59 | 15°31 | 13°51 | 5°32 | 3°47 | 15°56 | 6° 2 | 20°38 | 6°41 | 20°45 | 22° 1 | 8°10 | 2°42 |
| T 21 | 7 59 24 | 0♋30'58 | 13°43 | 17° 3 | 14°35 | 6°12 | 4° 0 | 15°51 | 6° 5 | 20°40 | 6°41 | 20°39 | 21°58 | 8°17 | 2°42 |
| F 22 | 8 3 21 | 1°32'01 | 26°50 | 18°32 | 15°18 | 6°52 | 4°13 | 15°46 | 6° 9 | 20°42 | 6°42 | 20°31 | 21°55 | 8°23 | 2°43 |
| S 23 | 8 7 17 | 2°33'04 | 10♌20 | 19°58 | 16° 0 | 7°32 | 4°26 | 15°42 | 6°12 | 20°44 | 6°43 | 20°22 | 21°52 | 8°30 | 2°43 |
| S 24 | 8 11 14 | 3°34'06 | 24°13 | 21°21 | 16°40 | 8°12 | 4°39 | 15°37 | 6°16 | 20°47 | 6°43 | 20°14 | 21°49 | 8°37 | 2°44 |
| M25 | 8 15 10 | 4°35'07 | 8♌23 | 22°39 | 17°20 | 8°51 | 4°52 | 15°32 | 6°19 | 20°49 | 6°44 | 20° 7 | 21°45 | 8°43 | 2°45 |
| T 26 | 8 19 7 | 5°36'07 | 22°46 | 23°53 | 17°58 | 9°31 | 5° 5 | 15°27 | 6°23 | 20°51 | 6°45 | 20° 2 | 21°42 | 8°50 | 2°46 |
| W27 | 8 23 4 | 6°37'06 | 7♋16 | 25° 0 | 18°35 | 10°11 | 5°17 | 15°23 | 6°26 | 20°53 | 6°46 | 19°59 | 21°39 | 8°57 | 2°46 |
| T 28 | 8 27 0 | 7°38'04 | 21°47 | 26° 2 | 19°10 | 10°51 | 5°30 | 15°18 | 6°30 | 20°56 | 6°47 | 19°D58 | 21°36 | 9° 3 | 2°47 |
| F 29 | 8 30 57 | 8°39'00 | 6♍14 | 26°55 | 19°45 | 11°31 | 5°43 | 15°13 | 6°33 | 20°58 | 6°48 | 19°59 | 21°33 | 9°10 | 2°48 |
| S 30 | 8 34 53 | 9°39'56 | 20°33 | 27°41 | 20°17 | 12°11 | 5°55 | 15° 8 | 6°37 | 21° 0 | 6°48 | 20° 1 | 21°30 | 9°16 | 2°49 |
| S 31 | 8 38 50 | 10°40'50 | 4♌43 | 28°18 | 20♋48 | 12♌51 | 6♌ 8 | 15♏ 3 | 6♌40 | 21♌ 2 | 6♍49 | 20°R 2 | 21♏26 | 9♌23 | 2♌50 |

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|------|----------|----------|-------|--------|--------|-------|-------|--------|------|-------|------|--------|-------|-------|------|
| M 1 | 8 42 46 | 11°41'42 | 18♌41 | 28°45 | 21♋18 | 13♌31 | 6♌20 | 14°R58 | 6♌44 | 21♌ 4 | 6♍50 | 20°R 2 | 21♏23 | 9♌30 | 2♌52 |
| T 2 | 8 46 43 | 12°42'34 | 2♏27 | 29° 2 | 21°46 | 14°11 | 6°33 | 14♏53 | 6°47 | 21° 6 | 6°51 | 20♏ 0 | 21°20 | 9°36 | 2°53 |
| W 3 | 8 50 39 | 13°43'23 | 16° 2 | 29°R 8 | 22°12 | 14°51 | 6°45 | 14°49 | 6°51 | 21° 9 | 6°52 | 19°56 | 21°17 | 9°43 | 2°54 |
| T 4 | 8 54 36 | 14°44'12 | 29°24 | 29° 3 | 22°36 | 15°31 | 6°58 | 14°44 | 6°54 | 21°11 | 6°53 | 19°51 | 21°14 | 9°50 | 2°55 |
| F 5 | 8 58 33 | 15°44'59 | 12♌33 | 28°47 | 22°58 | 16°10 | 7°10 | 14°39 | 6°58 | 21°13 | 6°54 | 19°46 | 21°11 | 9°56 | 2°57 |
| S 6 | 9 2 29 | 16°45'44 | 25°29 | 28°21 | 23°19 | 16°50 | 7°22 | 14°34 | 7° 1 | 21°15 | 6°55 | 19°40 | 21° 7 | 10° 3 | 2°58 |
| S 7 | 9 6 26 | 17°46'28 | 8♏12 | 27°44 | 23°37 | 17°30 | 7°34 | 14°29 | 7° 5 | 21°17 | 6°56 | 19°34 | 21° 4 | 10°10 | 3° 0 |
| M 8 | 9 10 22 | 18°47'11 | 20°43 | 26°58 | 23°54 | 18°10 | 7°46 | 14°24 | 7° 8 | 21°19 | 6°57 | 19°30 | 21° 1 | 10°16 | 3° 1 |
| T 9 | 9 14 19 | 19°47'52 | 3♏ 0 | 26° 4 | 24° 8 | 18°50 | 7°58 | 14°19 | 7°12 | 21°21 | 6°58 | 19°27 | 20°58 | 10°23 | 3° 3 |
| W10 | 9 18 15 | 20°48'32 | 15° 7 | 25° 3 | 24°20 | 19°30 | 8°10 | 14°14 | 7°15 | 21°23 | 6°59 | 19°D26 | 20°55 | 10°30 | 3° 5 |
| T 11 | 9 22 12 | 21°49'11 | 27° 4 | 23°58 | 24°30 | 20°10 | 8°22 | 14° 9 | 7°18 | 21°25 | 7° 0 | 19°26 | 20°51 | 10°36 | 3° 6 |
| F 12 | 9 26 8 | 22°49'49 | 8♌55 | 22°49 | 24°38 | 20°50 | 8°34 | 14° 5 | 7°22 | 21°27 | 7° 1 | 19°27 | 20°48 | 10°43 | 3° 8 |
| S 13 | 9 30 5 | 23°50'25 | 20°43 | 21°40 | 24°43 | 21°30 | 8°45 | 14° 0 | 7°25 | 21°29 | 7° 2 | 19°29 | 20°45 | 10°50 | 3°10 |
| S 14 | 9 34 2 | 24°51'00 | 2♏32 | 20°31 | 24°46 | 22°10 | 8°57 | 13°55 | 7°29 | 21°31 | 7° 4 | 19°31 | 20°42 | 10°56 | 3°12 |
| M15 | 9 37 58 | 25°51'33 | 14°27 | 19°25 | 24°R47 | 22°50 | 9° 8 | 13°50 | 7°32 | 21°33 | 7° 5 | 19°32 | 20°39 | 11° 3 | 3°14 |
| T 16 | 9 41 55 | 26°52'06 | 26°32 | 18°22 | 24°45 | 23°30 | 9°20 | 13°46 | 7°35 | 21°35 | 7° 6 | 19°R33 | 20°36 | 11°10 | 3°16 |
| W17 | 9 45 51 | 27°52'37 | 8♌54 | 17°25 | 24°40 | 24°11 | 9°31 | 13°41 | 7°39 | 21°37 | 7° 7 | 19°32 | 20°32 | 11°16 | 3°18 |
| T 18 | 9 49 48 | 28°53'07 | 21°35 | 16°33 | 24°33 | 24°51 | 9°42 | 13°36 | 7°42 | 21°39 | 7° 8 | 19°31 | 20°29 | 11°23 | 3°20 |
| F 19 | 9 53 44 | 29°53'36 | 4♌40 | 15°49 | 24°24 | 25°31 | 9°54 | 13°32 | 7°45 | 21°41 | 7° 9 | 19°29 | 20°26 | 11°30 | 3°22 |
| S 20 | 9 57 41 | 0♋54'03 | 18°11 | 15°11 | 24°12 | 26°11 | 10° 5 | 13°27 | 7°49 | 21°43 | 7°11 | 19°26 | 20°23 | 11°36 | 3°24 |
| S 21 | 10 1 37 | 1°54'29 | 2♌ 8 | 14°41 | 23°58 | 26°51 | 10°16 | 13°23 | 7°52 | 21°45 | 7°12 | 19°23 | 20°20 | 11°43 | 3°27 |
| M22 | 10 5 34 | 2°54'53 | 16°28 | 14°19 | 23°41 | 27°31 | 10°27 | 13°18 | 7°55 | 21°47 | 7°13 | 19°21 | 20°17 | 11°50 | 3°29 |
| T 23 | 10 9 31 | 3°55'15 | 1♋ 8 | 14° 3 | 23°21 | 28°11 | 10°37 | 13°14 | 7°59 | 21°48 | 7°14 | 19°20 | 20°13 | 11°56 | 3°31 |
| W24 | 10 13 27 | 4°55'36 | 16° 1 | 13°55 | 23° 0 | 28°51 | 10°48 | 13° 9 | 8° 2 | 21°50 | 7°16 | 19°D19 | 20°10 | 12° 3 | 3°34 |
| T 25 | 10 17 24 | 5°55'55 | 0♍58 | 13°D54 | 22°36 | 29°31 | 10°59 | 13° 5 | 8° 5 | 21°52 | 7°17 | 19°19 | 20° 7 | 12° 9 | 3°36 |
| F 26 | 10 21 20 | 6°56'12 | 15°51 | 14° 0 | 22°10 | 0♌11 | 11° 9 | 13° 1 | 8° 8 | 21°54 | 7°18 | 19°20 | 20° 4 | 12°16 | 3°38 |
| S 27 | 10 25 17 | 7°56'28 | 0♌34 | 14°11 | 21°42 | 0°51 | 11°20 | 12°56 | 8°11 | 21°55 | 7°19 | 19°21 | 20° 1 | 12°23 | 3°41 |
| S 28 | 10 29 13 | 8°56'41 | 15♌ 0 | 14°28 | 21♋12 | 1♌31 | 11♌30 | 12♏52 | 8°15 | 21♌57 | 7°21 | 19♏22 | 19♏57 | 12♌29 | 3♌44 |

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SWISS EPHEMERIS for the year 1830

MARCH 1830

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|------|----------|-----------------------|----------------------|---------------------|---------------------|--------------------|---------------------|---------------------|-------------------|---------------------|--------------------|---------------------|--------------------|--------------------|-------------------|
| M 1 | 10 33 10 | 9 ^h 56'52 | 29 ^h 8 | 14 ^h 51 | 20 ^h R40 | 2 ^h 311 | 11 ^h 340 | 12 ^h R48 | 8 ^h 18 | 21 ^h 359 | 7 ^h 22 | 19 ^h 23 | 19 ^h 54 | 12 ^h 36 | 3 ^h 46 |
| T 2 | 10 37 6 | 10 ^h 57'01 | 12 ^h II56 | 15 ^h 19 | 20 ^h X 7 | 2 ^h 51 | 11 ^h 50 | 12 ^h Ω44 | 8 ^h 21 | 22 ^h 0 | 7 ^h 23 | 19 ^h R23 | 19 ^h 51 | 12 ^h 43 | 3 ^h 49 |
| W 3 | 10 41 3 | 11 ^h 57'08 | 26 ^h 23 | 15 ^h 51 | 19 ^h 32 | 3 ^h 31 | 12 ^h 0 | 12 ^h 40 | 8 ^h 24 | 22 ^h 2 | 7 ^h 25 | 19 ^h 23 | 19 ^h 48 | 12 ^h 49 | 3 ^h 52 |
| T 4 | 10 44 59 | 12 ^h 57'12 | 9 ^h 32 | 16 ^h 28 | 18 ^h 57 | 4 ^h 11 | 12 ^h 10 | 12 ^h 36 | 8 ^h 27 | 22 ^h 4 | 7 ^h 26 | 19 ^h 22 | 19 ^h 45 | 12 ^h 56 | 3 ^h 54 |
| F 5 | 10 48 56 | 13 ^h 57'15 | 22 ^h 23 | 17 ^h 9 | 18 ^h 20 | 4 ^h 51 | 12 ^h 20 | 12 ^h 32 | 8 ^h 30 | 22 ^h 5 | 7 ^h 27 | 19 ^h 21 | 19 ^h 42 | 13 ^h 3 | 3 ^h 57 |
| S 6 | 10 52 53 | 14 ^h 57'15 | 5 ^h Ω 0 | 17 ^h 54 | 17 ^h 43 | 5 ^h 31 | 12 ^h 30 | 12 ^h 29 | 8 ^h 33 | 22 ^h 7 | 7 ^h 29 | 19 ^h 21 | 19 ^h 38 | 13 ^h 9 | 4 ^h 0 |
| S 7 | 10 56 49 | 15 ^h 57'14 | 17 ^h 24 | 18 ^h 43 | 17 ^h 5 | 6 ^h 12 | 12 ^h 39 | 12 ^h 25 | 8 ^h 36 | 22 ^h 8 | 7 ^h 30 | 19 ^h 20 | 19 ^h 35 | 13 ^h 16 | 4 ^h 3 |
| M 8 | 11 0 46 | 16 ^h 57'10 | 29 ^h 37 | 19 ^h 35 | 16 ^h 27 | 6 ^h 52 | 12 ^h 49 | 12 ^h 21 | 8 ^h 39 | 22 ^h 10 | 7 ^h 32 | 19 ^h 20 | 19 ^h 32 | 13 ^h 23 | 4 ^h 6 |
| T 9 | 11 4 42 | 17 ^h 57'04 | 11 ^h 41 | 20 ^h 30 | 15 ^h 50 | 7 ^h 32 | 12 ^h 58 | 12 ^h 18 | 8 ^h 42 | 22 ^h 11 | 7 ^h 33 | 19 ^h 20 | 19 ^h 29 | 13 ^h 29 | 4 ^h 9 |
| W10 | 11 8 39 | 18 ^h 56'56 | 23 ^h 38 | 21 ^h 27 | 15 ^h 12 | 8 ^h 12 | 13 ^h 7 | 12 ^h 14 | 8 ^h 45 | 22 ^h 13 | 7 ^h 34 | 19 ^h 20 | 19 ^h 26 | 13 ^h 36 | 4 ^h 12 |
| T 11 | 11 12 35 | 19 ^h 56'47 | 5 ^h 30 | 22 ^h 28 | 14 ^h 36 | 8 ^h 52 | 13 ^h 16 | 12 ^h 11 | 8 ^h 47 | 22 ^h 14 | 7 ^h 36 | 19 ^h 20 | 19 ^h 22 | 13 ^h 43 | 4 ^h 15 |
| F 12 | 11 16 32 | 20 ^h 56'35 | 17 ^h 20 | 23 ^h 31 | 14 ^h 0 | 9 ^h 32 | 13 ^h 25 | 12 ^h 8 | 8 ^h 50 | 22 ^h 16 | 7 ^h 37 | 19 ^h 20 | 19 ^h 19 | 13 ^h 49 | 4 ^h 18 |
| S 13 | 11 20 28 | 21 ^h 56'22 | 29 ^h 8 | 24 ^h 37 | 13 ^h 25 | 10 ^h 12 | 13 ^h 34 | 12 ^h 5 | 8 ^h 53 | 22 ^h 17 | 7 ^h 38 | 19 ^h 19 | 19 ^h 16 | 13 ^h 56 | 4 ^h 21 |
| S 14 | 11 24 25 | 22 ^h 56'07 | 10 ^h 59 | 25 ^h 44 | 12 ^h 52 | 10 ^h 52 | 13 ^h 43 | 12 ^h 2 | 8 ^h 56 | 22 ^h 18 | 7 ^h 40 | 19 ^h 19 | 19 ^h 13 | 14 ^h 3 | 4 ^h 24 |
| M15 | 11 28 22 | 23 ^h 55'50 | 22 ^h 56 | 26 ^h 54 | 12 ^h 20 | 11 ^h 32 | 13 ^h 51 | 11 ^h 58 | 8 ^h 59 | 22 ^h 20 | 7 ^h 41 | 19 ^h 18 | 19 ^h 10 | 14 ^h 9 | 4 ^h 27 |
| T 16 | 11 32 18 | 24 ^h 55'31 | 5 ^h 7 | 28 ^h 6 | 11 ^h 50 | 12 ^h 12 | 14 ^h 0 | 11 ^h 56 | 9 ^h 1 | 22 ^h 21 | 7 ^h 43 | 19 ^h 18 | 19 ^h 7 | 14 ^h 16 | 4 ^h 30 |
| W17 | 11 36 15 | 25 ^h 55'10 | 17 ^h 21 | 29 ^h 21 | 11 ^h 22 | 12 ^h 52 | 14 ^h 8 | 11 ^h 53 | 9 ^h 4 | 22 ^h 22 | 7 ^h 44 | 19 ^h 18 | 19 ^h 3 | 14 ^h 23 | 4 ^h 34 |
| T 18 | 11 40 11 | 26 ^h 54'48 | 29 ^h 58 | 0 ^h 36 | 10 ^h 56 | 13 ^h 32 | 14 ^h 16 | 11 ^h 50 | 9 ^h 7 | 22 ^h 23 | 7 ^h 46 | 19 ^h D17 | 19 ^h 0 | 14 ^h 29 | 4 ^h 37 |
| F 19 | 11 44 8 | 27 ^h 54'24 | 12 ^h 35 | 1 ^h 54 | 10 ^h 32 | 14 ^h 12 | 14 ^h 24 | 11 ^h 47 | 9 ^h 9 | 22 ^h 25 | 7 ^h 47 | 19 ^h 18 | 18 ^h 57 | 14 ^h 36 | 4 ^h 40 |
| S 20 | 11 48 4 | 28 ^h 53'59 | 26 ^h 20 | 3 ^h 14 | 10 ^h 10 | 14 ^h 52 | 14 ^h 32 | 11 ^h 45 | 9 ^h 12 | 22 ^h 26 | 7 ^h 49 | 19 ^h 18 | 18 ^h 54 | 14 ^h 43 | 4 ^h 44 |
| S 21 | 11 52 1 | 29 ^h 53'31 | 10 ^h 10 | 4 ^h 35 | 9 ^h 50 | 15 ^h 32 | 14 ^h 40 | 11 ^h 42 | 9 ^h 14 | 22 ^h 27 | 7 ^h 50 | 19 ^h 19 | 18 ^h 51 | 14 ^h 49 | 4 ^h 47 |
| M22 | 11 55 57 | 0 ^h Y53'02 | 24 ^h 26 | 5 ^h 58 | 9 ^h 33 | 16 ^h 12 | 14 ^h 48 | 11 ^h 40 | 9 ^h 17 | 22 ^h 28 | 7 ^h 51 | 19 ^h 20 | 18 ^h 48 | 14 ^h 56 | 4 ^h 50 |
| T 23 | 11 59 54 | 1 ^h 52'31 | 9 ^h X 7 | 7 ^h 22 | 9 ^h 19 | 16 ^h 52 | 14 ^h 55 | 11 ^h 38 | 9 ^h 19 | 22 ^h 29 | 7 ^h 53 | 19 ^h 21 | 18 ^h 44 | 15 ^h 3 | 4 ^h 54 |
| W24 | 12 3 51 | 2 ^h 51'58 | 24 ^h 6 | 8 ^h 48 | 9 ^h 6 | 17 ^h 32 | 15 ^h 3 | 11 ^h 36 | 9 ^h 22 | 22 ^h 30 | 7 ^h 54 | 19 ^h R21 | 18 ^h 41 | 15 ^h 9 | 4 ^h 57 |
| T 25 | 12 7 47 | 3 ^h 51'22 | 9 ^h Y16 | 10 ^h 16 | 8 ^h 57 | 18 ^h 12 | 15 ^h 10 | 11 ^h 33 | 9 ^h 24 | 22 ^h 31 | 7 ^h 56 | 19 ^h 20 | 18 ^h 38 | 15 ^h 16 | 5 ^h 1 |
| F 26 | 12 11 44 | 4 ^h 50'45 | 24 ^h 28 | 11 ^h 45 | 8 ^h 49 | 18 ^h 52 | 15 ^h 17 | 11 ^h 31 | 9 ^h 26 | 22 ^h 32 | 7 ^h 57 | 19 ^h 19 | 18 ^h 35 | 15 ^h 23 | 5 ^h 4 |
| S 27 | 12 15 40 | 5 ^h 50'06 | 9 ^h X31 | 13 ^h 15 | 8 ^h 44 | 19 ^h 32 | 15 ^h 24 | 11 ^h 30 | 9 ^h 29 | 22 ^h 33 | 7 ^h 59 | 19 ^h 17 | 18 ^h 32 | 15 ^h 29 | 5 ^h 8 |
| S 28 | 12 19 37 | 6 ^h 49'24 | 24 ^h 18 | 14 ^h 47 | 8 ^h 42 | 20 ^h 12 | 15 ^h 31 | 11 ^h 28 | 9 ^h 31 | 22 ^h 34 | 8 ^h 0 | 19 ^h 15 | 18 ^h 28 | 15 ^h 36 | 5 ^h 11 |
| M29 | 12 23 33 | 7 ^h 48'41 | 8 ^h II42 | 16 ^h 20 | 8 ^h D42 | 20 ^h 52 | 15 ^h 38 | 11 ^h 26 | 9 ^h 33 | 22 ^h 35 | 8 ^h 2 | 19 ^h 13 | 18 ^h 25 | 15 ^h 43 | 5 ^h 15 |
| T 30 | 12 27 30 | 8 ^h 47'55 | 22 ^h 40 | 17 ^h 55 | 8 ^h 44 | 21 ^h 31 | 15 ^h 44 | 11 ^h 25 | 9 ^h 35 | 22 ^h 36 | 8 ^h 3 | 19 ^h 11 | 18 ^h 22 | 15 ^h 49 | 5 ^h 19 |
| W31 | 12 31 26 | 9 ^h Y47'06 | 6 ^h 21 | 19 ^h X32 | 8 ^h X49 | 22 ^h 31 | 15 ^h 50 | 11 ^h 23 | 9 ^h 38 | 22 ^h 37 | 8 ^h Y 5 | 19 ^h D10 | 18 ^h 19 | 15 ^h 56 | 5 ^h 22 |

Delta T = 7.04 sec.

APRIL 1830

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|------------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|-------------------|--------------------|--------------------|---------------------|--------------------|--------------------|-------------------|
| T 1 | 12 35 23 | 10 ^h Y46'15 | 19 ^h 38 | 21 ^h X 9 | 8 ^h X56 | 22 ^h 351 | 15 ^h 357 | 11 ^h R22 | 9 ^h 40 | 22 ^h 38 | 8 ^h Y 6 | 19 ^h 11 | 18 ^h 16 | 16 ^h 3 | 5 ^h 26 |
| F 2 | 12 39 19 | 11 ^h 45'22 | 2 ^h Ω 2 | 22 ^h 48 | 9 ^h 5 | 23 ^h 31 | 16 ^h 3 | 11 ^h Ω21 | 9 ^h 42 | 22 ^h 38 | 8 ^h 7 | 19 ^h 12 | 18 ^h 13 | 16 ^h 9 | 5 ^h 30 |
| S 3 | 12 43 16 | 12 ^h 44'27 | 14 ^h 29 | 24 ^h 29 | 9 ^h 16 | 24 ^h 11 | 16 ^h 9 | 11 ^h 19 | 9 ^h 44 | 22 ^h 39 | 8 ^h 9 | 19 ^h 13 | 18 ^h 9 | 16 ^h 16 | 5 ^h 33 |
| S 4 | 12 47 13 | 13 ^h 43'29 | 26 ^h 41 | 26 ^h 11 | 9 ^h 29 | 24 ^h 51 | 16 ^h 14 | 11 ^h 18 | 9 ^h 46 | 22 ^h 40 | 8 ^h 10 | 19 ^h 15 | 18 ^h 6 | 16 ^h 22 | 5 ^h 37 |
| M 5 | 12 51 9 | 14 ^h 42'29 | 8 ^h 42 | 27 ^h 54 | 9 ^h 45 | 25 ^h 30 | 16 ^h 20 | 11 ^h 18 | 9 ^h 48 | 22 ^h 41 | 8 ^h 12 | 19 ^h 16 | 18 ^h 3 | 16 ^h 29 | 5 ^h 41 |
| T 6 | 12 55 6 | 15 ^h 41'27 | 20 ^h 37 | 29 ^h 39 | 10 ^h 2 | 26 ^h 10 | 16 ^h 25 | 11 ^h 17 | 9 ^h 50 | 22 ^h 41 | 8 ^h 13 | 19 ^h R17 | 18 ^h 0 | 16 ^h 36 | 5 ^h 44 |
| W 7 | 12 59 2 | 16 ^h 40'22 | 2 ^h 27 | 1 ^h Y26 | 10 ^h 21 | 26 ^h 50 | 16 ^h 31 | 11 ^h 16 | 9 ^h 52 | 22 ^h 42 | 8 ^h 15 | 19 ^h 16 | 17 ^h 57 | 16 ^h 42 | 5 ^h 48 |
| T 8 | 13 2 59 | 17 ^h 39'16 | 14 ^h 16 | 3 ^h 14 | 10 ^h 42 | 27 ^h 29 | 16 ^h 36 | 11 ^h 15 | 9 ^h 53 | 22 ^h 42 | 8 ^h 16 | 19 ^h 14 | 17 ^h 53 | 16 ^h 49 | 5 ^h 52 |
| F 9 | 13 6 55 | 18 ^h 38'07 | 26 ^h 5 | 5 ^h 3 | 11 ^h 5 | 28 ^h 9 | 16 ^h 41 | 11 ^h 15 | 9 ^h 55 | 22 ^h 43 | 8 ^h 18 | 19 ^h 10 | 17 ^h 50 | 16 ^h 56 | 5 ^h 56 |
| S 10 | 13 10 52 | 19 ^h 36'57 | 7 ^h II57 | 6 ^h 54 | 11 ^h 30 | 28 ^h 49 | 16 ^h 45 | 11 ^h 15 | 9 ^h 57 | 22 ^h 43 | 8 ^h 19 | 19 ^h 5 | 17 ^h 47 | 17 ^h 2 | 6 ^h 0 |
| S 11 | 13 14 48 | 20 ^h 35'45 | 19 ^h 53 | 8 ^h 46 | 11 ^h 56 | 29 ^h 28 | 16 ^h 50 | 11 ^h 14 | 9 ^h 59 | 22 ^h 44 | 8 ^h 21 | 19 ^h 0 | 17 ^h 44 | 17 ^h 9 | 6 ^h 4 |
| M12 | 13 18 45 | 21 ^h 34'30 | 1 ^h 55 | 10 ^h 40 | 12 ^h 24 | 0 ^h 8 8 | 16 ^h 54 | 11 ^h 14 | 10 ^h 0 | 22 ^h 44 | 8 ^h 22 | 18 ^h 54 | 17 ^h 41 | 17 ^h 16 | 6 ^h 7 |
| T 13 | 13 22 42 | 22 ^h 33'14 | 14 ^h 7 | 12 ^h 36 | 12 ^h 54 | 0 ^h 48 | 16 ^h 59 | 11 ^h D14 | 10 ^h 2 | 22 ^h 45 | 8 ^h 23 | 18 ^h 49 | 17 ^h 38 | 17 ^h 22 | 6 ^h 11 |
| W14 | 13 26 38 | 23 ^h 31'57 | 26 ^h 30 | 14 ^h 33 | 13 ^h 25 | 1 ^h 27 | 17 ^h 3 | 11 ^h 14 | 10 ^h 3 | 22 ^h 45 | 8 ^h 25 | 18 ^h 44 | 17 ^h 34 | 17 ^h 29 | 6 ^h 15 |
| T 15 | 13 30 35 | 24 ^h 30'37 | 9 ^h 3 7 | 16 ^h 31 | 13 ^h 57 | 2 ^h 7 | 17 ^h 7 | 11 ^h 14 | 10 ^h 5 | 22 ^h 46 | 8 ^h 26 | 18 ^h 42 | 17 ^h 31 | 17 ^h 36 | 6 ^h 19 |
| F 16 | 13 34 31 | 25 ^h 29'16 | 22 ^h 2 | 18 ^h 31 | 14 ^h 31 | 2 ^h 46 | 17 ^h 10 | 11 ^h 15 | 10 ^h 6 | 22 ^h 46 | 8 ^h 28 | 18 ^h D40 | 17 ^h 28 | 17 ^h 42 | 6 ^h 23 |
| S 17 | 13 38 28 | 26 ^h 27'53 | 5 ^h 18 | 20 ^h 32 | 15 ^h | | | | | | | | | | |

SWISS EPHEMERIS for the year 1830

MAY 1830

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|----------|----------|-------|-------|--------|-------|--------|-------|--------|--------|-------|--------|-------|-------|------|---|---|
| S 1 | 14 33 40 | 10♈ 5'27 | 23♏32 | 20♌ 7 | 25♋10 | 12♌34 | 17♌44 | 11♏32 | 10♌23 | 22°R47 | 8♍48 | 18♎ 4 | 16♎40 | 19♏22 | 7♌22 | | |
| S 2 | 14 37 36 | 11° 3'36 | 5♎40 | 22°10 | 26° 0 | 13°13 | 17°45 | 11°34 | 10°23 | 22♌47 | 8°49 | 18° 5 | 16°37 | 19°29 | 7°26 | | |
| M 3 | 14 41 33 | 12° 1'43 | 17°37 | 24°11 | 26°50 | 13°51 | 17°46 | 11°36 | 10°24 | 22°46 | 8°50 | 18°R 6 | 16°34 | 19°36 | 7°30 | | |
| T 4 | 14 45 29 | 12°59'48 | 29°27 | 26°11 | 27°41 | 14°30 | 17°46 | 11°38 | 10°25 | 22°46 | 8°52 | 18° 5 | 16°31 | 19°42 | 7°34 | | |
| W 5 | 14 49 26 | 13°57'52 | 11♌14 | 28° 7 | 28°33 | 15° 9 | 17°46 | 11°40 | 10°25 | 22°46 | 8°53 | 18° 2 | 16°28 | 19°49 | 7°38 | | |
| T 6 | 14 53 22 | 14°55'53 | 23° 3 | 0♐ 1 | 29°25 | 15°47 | 17°R46 | 11°42 | 10°26 | 22°45 | 8°54 | 17°57 | 16°25 | 19°56 | 7°42 | | |
| F 7 | 14 57 19 | 15°53'53 | 4♎55 | 1°52 | 0♍18 | 16°26 | 17°46 | 11°45 | 10°26 | 22°45 | 8°55 | 17°50 | 16°21 | 20° 2 | 7°46 | | |
| S 8 | 15 1 15 | 16°51'51 | 16°53 | 3°40 | 1°11 | 17° 4 | 17°46 | 11°48 | 10°26 | 22°45 | 8°57 | 17°40 | 16°18 | 20° 9 | 7°50 | | |
| S 9 | 15 5 12 | 17°49'48 | 28°58 | 5°25 | 2° 5 | 17°42 | 17°45 | 11°50 | 10°27 | 22°44 | 8°58 | 17°29 | 16°15 | 20°16 | 7°54 | | |
| M10 | 15 9 8 | 18°47'43 | 11♌11 | 7° 7 | 3° 0 | 18°21 | 17°45 | 11°53 | 10°27 | 22°44 | 8°59 | 17°18 | 16°12 | 20°22 | 7°58 | | |
| T 11 | 15 13 5 | 19°45'37 | 23°34 | 8°46 | 3°55 | 18°59 | 17°44 | 11°56 | 10°27 | 22°43 | 9° 0 | 17° 7 | 16° 9 | 20°29 | 8° 1 | | |
| W12 | 15 17 2 | 20°43'29 | 6♌ 7 | 10°20 | 4°50 | 19°37 | 17°43 | 11°59 | 10°28 | 22°43 | 9° 1 | 16°58 | 16° 5 | 20°36 | 8° 5 | | |
| T 13 | 15 20 58 | 21°41'20 | 18°53 | 11°52 | 5°46 | 20°15 | 17°41 | 12° 2 | 10°28 | 22°42 | 9° 2 | 16°52 | 16° 2 | 20°42 | 8° 9 | | |
| F 14 | 15 24 55 | 22°39'10 | 1♌52 | 13°20 | 6°43 | 20°53 | 17°40 | 12° 5 | 10°28 | 22°42 | 9° 4 | 16°47 | 15°59 | 20°49 | 8°13 | | |
| S 15 | 15 28 51 | 23°36'59 | 15° 8 | 14°44 | 7°40 | 21°31 | 17°38 | 12° 8 | 10°28 | 22°41 | 9° 5 | 16°46 | 15°56 | 20°56 | 8°17 | | |
| S 16 | 15 32 48 | 24°34'46 | 28°41 | 16° 5 | 8°37 | 22° 9 | 17°36 | 12°12 | 10°R28 | 22°40 | 9° 6 | 16°D45 | 15°53 | 21° 2 | 8°21 | | |
| M17 | 15 36 44 | 25°32'32 | 12♌35 | 17°21 | 9°35 | 22°46 | 17°34 | 12°15 | 10°28 | 22°40 | 9° 7 | 16°R46 | 15°50 | 21° 9 | 8°25 | | |
| T 18 | 15 40 41 | 26°30'18 | 26°49 | 18°34 | 10°33 | 23°24 | 17°32 | 12°19 | 10°28 | 22°39 | 9° 8 | 16°45 | 15°46 | 21°16 | 8°29 | | |
| W19 | 15 44 37 | 27°28'02 | 11♍22 | 19°44 | 11°32 | 24° 2 | 17°30 | 12°22 | 10°28 | 22°38 | 9° 9 | 16°43 | 15°43 | 21°22 | 8°32 | | |
| T 20 | 15 48 34 | 28°25'45 | 26°12 | 20°49 | 12°31 | 24°39 | 17°27 | 12°26 | 10°27 | 22°38 | 9°10 | 16°39 | 15°40 | 21°29 | 8°36 | | |
| F 21 | 15 52 31 | 29°23'27 | 11♌11 | 21°50 | 13°30 | 25°16 | 17°24 | 12°30 | 10°27 | 22°37 | 9°11 | 16°32 | 15°37 | 21°36 | 8°40 | | |
| S 22 | 15 56 27 | 0♐21'08 | 26°11 | 22°48 | 14°30 | 25°54 | 17°22 | 12°34 | 10°27 | 22°36 | 9°12 | 16°23 | 15°34 | 21°42 | 8°44 | | |
| S 23 | 16 0 24 | 1°18'47 | 11♐ 3 | 23°41 | 15°30 | 26°31 | 17°18 | 12°38 | 10°27 | 22°35 | 9°13 | 16°12 | 15°30 | 21°49 | 8°47 | | |
| M24 | 16 4 20 | 2°16'26 | 25°38 | 24°30 | 16°30 | 27° 8 | 17°15 | 12°42 | 10°26 | 22°34 | 9°14 | 16° 1 | 15°27 | 21°56 | 8°51 | | |
| T 25 | 16 8 17 | 3°14'03 | 9♌48 | 25°15 | 17°31 | 27°44 | 17°12 | 12°46 | 10°26 | 22°33 | 9°15 | 15°52 | 15°24 | 22° 3 | 8°55 | | |
| W26 | 16 12 13 | 4°11'38 | 23°31 | 25°55 | 18°31 | 28°21 | 17° 8 | 12°50 | 10°25 | 22°32 | 9°16 | 15°44 | 15°21 | 22° 9 | 8°59 | | |
| T 27 | 16 16 10 | 5° 9'13 | 6♏46 | 26°31 | 19°33 | 28°58 | 17° 4 | 12°54 | 10°25 | 22°31 | 9°17 | 15°39 | 15°18 | 22°16 | 9° 2 | | |
| F 28 | 16 20 7 | 6° 6'45 | 19°35 | 27° 3 | 20°34 | 29°34 | 17° 0 | 12°59 | 10°24 | 22°31 | 9°18 | 15°37 | 15°15 | 22°23 | 9° 6 | | |
| S 29 | 16 24 3 | 7° 4'17 | 2♎ 1 | 27°30 | 21°36 | 0♌11 | 16°56 | 13° 3 | 10°23 | 22°30 | 9°19 | 15°36 | 15°11 | 22°29 | 9°10 | | |
| S 30 | 16 28 0 | 8° 1'47 | 14°10 | 27°53 | 22°38 | 0°47 | 16°52 | 13° 8 | 10°23 | 22°29 | 9°19 | 15°36 | 15° 8 | 22°36 | 9°13 | | |
| M31 | 16 31 56 | 8♐59'16 | 26♎ 7 | 28♐11 | 23°Y40 | 1♌23 | 16♌47 | 13♏12 | 10♌22 | 22♌27 | 9°Y20 | 15♎35 | 15♎ 5 | 22♏43 | 9♌17 | | |

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|------|----------|----------|-------|--------|--------|-------|--------|-------|--------|--------|-------|--------|-------|-------|-------|---|---|
| T 1 | 16 35 53 | 9♐56'43 | 7♏57 | 28♐24 | 24°Y43 | 1♌59 | 16°R43 | 13♏17 | 10°R21 | 22°R26 | 9°Y21 | 15°R34 | 15♎ 2 | 22♏49 | 9♌20 | | |
| W 2 | 16 39 49 | 10°54'10 | 19°45 | 28°33 | 25°46 | 2°35 | 16♌38 | 13°22 | 10°21 | 22♌25 | 9°22 | 15♎30 | 14°59 | 22°56 | 9°24 | | |
| T 3 | 16 43 46 | 11°51'35 | 1♎36 | 28°R37 | 26°49 | 3°10 | 16°33 | 13°27 | 10°20 | 22°24 | 9°23 | 15°24 | 14°56 | 23° 3 | 9°27 | | |
| F 4 | 16 47 42 | 12°48'59 | 13°33 | 28°36 | 27°52 | 3°46 | 16°28 | 13°32 | 10°19 | 22°23 | 9°23 | 15°15 | 14°52 | 23° 9 | 9°31 | | |
| S 5 | 16 51 39 | 13°46'22 | 25°38 | 28°31 | 28°55 | 4°21 | 16°23 | 13°37 | 10°18 | 22°22 | 9°24 | 15° 3 | 14°49 | 23°16 | 9°34 | | |
| S 6 | 16 55 35 | 14°43'44 | 7♌57 | 28°22 | 29°59 | 4°56 | 16°17 | 13°42 | 10°17 | 22°21 | 9°25 | 14°51 | 14°46 | 23°23 | 9°38 | | |
| M 7 | 16 59 32 | 15°41'05 | 20°22 | 28° 9 | 1♌ 3 | 5°31 | 16°12 | 13°47 | 10°16 | 22°20 | 9°26 | 14°37 | 14°43 | 23°29 | 9°41 | | |
| T 8 | 17 3 29 | 16°38'26 | 3♌ 1 | 27°51 | 2° 7 | 6° 6 | 16° 6 | 13°52 | 10°15 | 22°18 | 9°26 | 14°25 | 14°40 | 23°36 | 9°44 | | |
| W 9 | 17 7 25 | 17°35'46 | 15°51 | 27°30 | 3°11 | 6°41 | 16° 0 | 13°57 | 10°14 | 22°17 | 9°27 | 14°14 | 14°36 | 23°43 | 9°48 | | |
| T 10 | 17 11 22 | 18°33'05 | 28°53 | 27° 6 | 4°16 | 7°16 | 15°54 | 14° 3 | 10°12 | 22°16 | 9°28 | 14° 6 | 14°33 | 23°49 | 9°51 | | |
| F 11 | 17 15 18 | 19°30'24 | 12♌ 6 | 26°39 | 5°21 | 7°50 | 15°48 | 14° 8 | 10°11 | 22°15 | 9°28 | 14° 0 | 14°30 | 23°56 | 9°54 | | |
| S 12 | 17 19 15 | 20°27'42 | 25°31 | 26° 9 | 6°26 | 8°24 | 15°42 | 14°14 | 10°10 | 22°13 | 9°29 | 13°57 | 14°27 | 24° 3 | 9°58 | | |
| S 13 | 17 23 11 | 21°25'00 | 9♌ 9 | 25°38 | 7°31 | 8°58 | 15°36 | 14°19 | 10° 9 | 22°12 | 9°30 | 13°57 | 14°24 | 24° 9 | 10° 1 | | |
| M14 | 17 27 8 | 22°22'17 | 23° 0 | 25° 5 | 8°36 | 9°32 | 15°29 | 14°25 | 10° 7 | 22°11 | 9°30 | 13°57 | 14°21 | 24°16 | 10° 4 | | |
| T 15 | 17 31 5 | 23°19'35 | 7♍ 6 | 24°31 | 9°42 | 10° 5 | 15°23 | 14°31 | 10° 6 | 22° 9 | 9°31 | 13°56 | 14°17 | 24°23 | 10° 7 | | |
| W16 | 17 35 1 | 24°16'52 | 21°24 | 23°57 | 10°47 | 10°39 | 15°16 | 14°36 | 10° 5 | 22° 8 | 9°31 | 13°54 | 14°14 | 24°29 | 10°10 | | |
| T 17 | 17 38 58 | 25°14'08 | 5♌54 | 23°23 | 11°53 | 11°12 | 15°10 | 14°42 | 10° 3 | 22° 6 | 9°32 | 13°50 | 14°11 | 24°36 | 10°13 | | |
| F 18 | 17 42 54 | 26°11'25 | 20°30 | 22°50 | 12°59 | 11°45 | 15° 3 | 14°48 | 10° 2 | 22° 5 | 9°32 | 13°43 | 14° 8 | 24°43 | 10°16 | | |
| S 19 | 17 46 51 | 27° 8'41 | 5♐ 8 | 22°18 | 14° 5 | 12°17 | 14°56 | 14°54 | 10° 0 | 22° 4 | 9°33 | 13°33 | 14° 5 | 24°49 | 10°19 | | |
| S 20 | 17 50 47 | 28° 5'57 | 19°41 | 21°49 | 15°11 | 12°50 | 14°49 | 15° 0 | 9°59 | 22° 2 | 9°33 | 13°23 | 14° 2 | 24°56 | 10°22 | | |
| M21 | 17 54 44 | 29° 3'13 | 4♌ 0 | 21°22 | 16°18 | 13°22 | 14°42 | 15° 6 | 9°57 | 22° 1 | 9°34 | 13°12 | 13°58 | 25° 3 | 10°25 | | |
| T 22 | 17 58 40 | 0♌ 0'28 | 18° 0 | 20°58 | 17°24 | 13°54 | 14°35 | 15°12 | 9°55 | 21°59 | 9°34 | 13° 2 | 13°55 | 25° 9 | 10°28 | | |
| W23 | 18 2 37 | 0°57'43 | 1♏37 | 20°37 | 18°31 | 14°25 | 14°27 | 15°19 | 9°54 | 21°58 | 9°34 | 12°54 | 13°52 | 25°16 | 10°31 | | |
| T 24 | 18 6 34 | 1°54'57 | 14°49 | 20°20 | 19°38 | 14°57 | 14°20 | 15°25 | 9°52 | 21°56 | 9°35 | 12°48 | 13°49 | 25°23 | 10°34 | | |
| F 25 | 18 10 30 | 2°52'11 | 27°37 | 20° 7 | 20°45 | 15°28 | 14°13 | 15°31 | 9°50 | 21°55 | 9°35 | 12°46 | 13°46 | 25°29 | 10°37 | | |
| S 26 | 18 14 27 | 3°49'24 | 10♎ 5 | 19°58 | 21°52 | 15°59 | 14° 5 | 15°37 | 9°49 | 21°53 | 9°35 | 12°D45 | 13°42 | 25°36 | 10°39 | | |
| S 27 | 18 18 23 | 4°46'37 | 22°15 | 19°D53 | 22°59 | 16°29 | 13°58 | 15°44 | 9°47 | 21°52 | 9°36 | 12°45 | 13°39 | 25°43 | 10°42 | | |
| M28 | 18 22 20 | 5°43'49 | 4♌13 | 19°54 | 24° 6 | 16°59 | 13°50 | 15°50 | 9°45 | 21°50 | 9°36 | 12°R45 | 13°36 | 25°50 | 10°45 | | |
| T 29 | 18 26 16 | 6°41'01 | 16° 5 | 19°59 | 25°14 | 17°29 | 13°43 | 15°57 | 9°43 | 21°49 | 9°36 | 12°45 | 13°33 | 25°56 | 10°47 | | |
| W30 | 18 30 13 | 7♌38'13 | 27♏55 | 20♐ 9 | 26♌21 | 17♌59 | 13♌35 | 16♏ 3 | 9°41 | 21♌47 | 9°Y36 | 12♎43 | 13♎30 | 26♏ 3 | 10♌50 | | |

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SWISS EPHEMERIS for the year 1830

JULY 1830

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|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|--------|-------|-------|-------|
| T 1 | 18 34 9 | 8♄35'24 | 9♍48 | 20♂24 | 27♄29 | 18♁28 | 13°R27 | 16♁10 | 9°R39 | 21°R46 | 9°V37 | 12°R38 | 13♎27 | 26♁10 | 10♄52 |
| F 2 | 18 38 6 | 9°32'35 | 21°50 | 20°44 | 28°36 | 18°57 | 13°Z20 | 16°17 | 9°≈37 | 21°Z44 | 9°37 | 12♎32 | 13°23 | 26°16 | 10°55 |
| S 3 | 18 42 3 | 10°29'46 | 4♁ 2 | 21° 9 | 29°44 | 19°26 | 13°12 | 16°23 | 9°35 | 21°42 | 9°37 | 12°23 | 13°20 | 26°23 | 10°57 |
| S 4 | 18 45 59 | 11°26'57 | 16°28 | 21°39 | 0♂52 | 19°54 | 13° 4 | 16°30 | 9°33 | 21°41 | 9°37 | 12°13 | 13°17 | 26°30 | 11° 0 |
| M 5 | 18 49 56 | 12°24'07 | 29°10 | 22°14 | 2° 0 | 20°22 | 12°57 | 16°37 | 9°31 | 21°39 | 9°37 | 12° 3 | 13°14 | 26°36 | 11° 2 |
| T 6 | 18 53 52 | 13°21'18 | 12♄ 6 | 22°54 | 3° 9 | 20°49 | 12°49 | 16°44 | 9°29 | 21°38 | 9°37 | 11°53 | 13°11 | 26°43 | 11° 4 |
| W 7 | 18 57 49 | 14°18'29 | 25°17 | 23°38 | 4°17 | 21°17 | 12°41 | 16°50 | 9°27 | 21°36 | 9°38 | 11°44 | 13° 8 | 26°50 | 11° 7 |
| T 8 | 19 1 45 | 15°15'40 | 8≈41 | 24°28 | 5°25 | 21°43 | 12°33 | 16°57 | 9°25 | 21°34 | 9°38 | 11°38 | 13° 4 | 26°56 | 11° 9 |
| F 9 | 19 5 42 | 16°12'51 | 22°16 | 25°22 | 6°34 | 22°10 | 12°26 | 17° 4 | 9°23 | 21°33 | 9°38 | 11°34 | 13° 1 | 27° 3 | 11°11 |
| S 10 | 19 9 38 | 17°10'03 | 6♁ 0 | 26°21 | 7°43 | 22°36 | 12°18 | 17°11 | 9°21 | 21°31 | 9°R38 | 11°D32 | 12°58 | 27°10 | 11°13 |
| S 11 | 19 13 35 | 18° 7'15 | 19°53 | 27°24 | 8°51 | 23° 1 | 12°10 | 17°18 | 9°19 | 21°30 | 9°38 | 11°33 | 12°55 | 27°16 | 11°15 |
| M12 | 19 17 32 | 19° 4'27 | 3°V53 | 28°32 | 10° 0 | 23°27 | 12° 3 | 17°25 | 9°17 | 21°28 | 9°38 | 11°33 | 12°52 | 27°23 | 11°17 |
| T 13 | 19 21 28 | 20° 1'40 | 18° 0 | 29°45 | 11° 9 | 23°51 | 11°55 | 17°32 | 9°14 | 21°26 | 9°38 | 11°R34 | 12°48 | 27°30 | 11°19 |
| W14 | 19 25 25 | 20°58'54 | 2♄11 | 1♄ 2 | 12°18 | 24°16 | 11°48 | 17°39 | 9°12 | 21°25 | 9°37 | 11°34 | 12°45 | 27°36 | 11°21 |
| T 15 | 19 29 21 | 21°56'09 | 16°25 | 2°24 | 13°28 | 24°40 | 11°40 | 17°47 | 9°10 | 21°23 | 9°37 | 11°31 | 12°42 | 27°43 | 11°23 |
| F 16 | 19 33 18 | 22°53'24 | 0♂41 | 3°49 | 14°37 | 25° 3 | 11°33 | 17°54 | 9° 8 | 21°21 | 9°37 | 11°27 | 12°39 | 27°50 | 11°25 |
| S 17 | 19 37 14 | 23°50'40 | 14°53 | 5°19 | 15°46 | 25°26 | 11°25 | 18° 1 | 9° 5 | 21°20 | 9°37 | 11°21 | 12°36 | 27°56 | 11°27 |
| S 18 | 19 41 11 | 24°47'57 | 28°59 | 6°53 | 16°56 | 25°48 | 11°18 | 18° 8 | 9° 3 | 21°18 | 9°37 | 11°14 | 12°33 | 28° 3 | 11°28 |
| M19 | 19 45 7 | 25°45'14 | 12♄53 | 8°31 | 18° 5 | 26°10 | 11°11 | 18°15 | 9° 1 | 21°17 | 9°37 | 11° 6 | 12°29 | 28°10 | 11°30 |
| T 20 | 19 49 4 | 26°42'32 | 26°32 | 10°13 | 19°15 | 26°31 | 11° 4 | 18°23 | 8°58 | 21°15 | 9°37 | 11° 0 | 12°26 | 28°17 | 11°32 |
| W21 | 19 53 1 | 27°39'50 | 9♁53 | 11°58 | 20°24 | 26°52 | 10°56 | 18°30 | 8°56 | 21°13 | 9°36 | 10°54 | 12°23 | 28°23 | 11°33 |
| T 22 | 19 56 57 | 28°37'09 | 22°54 | 13°46 | 21°34 | 27°12 | 10°49 | 18°37 | 8°54 | 21°12 | 9°36 | 10°51 | 12°20 | 28°30 | 11°35 |
| F 23 | 20 0 54 | 29°34'29 | 5♎36 | 15°38 | 22°44 | 27°32 | 10°42 | 18°45 | 8°51 | 21°10 | 9°36 | 10°D49 | 12°17 | 28°37 | 11°36 |
| S 24 | 20 4 50 | 0♁31'48 | 18° 0 | 17°32 | 23°54 | 27°51 | 10°36 | 18°52 | 8°49 | 21° 9 | 9°36 | 10°50 | 12°14 | 28°43 | 11°38 |
| S 25 | 20 8 47 | 1°29'09 | 0♁ 9 | 19°29 | 25° 4 | 28°10 | 10°29 | 19° 0 | 8°47 | 21° 7 | 9°35 | 10°51 | 12°10 | 28°50 | 11°39 |
| M26 | 20 12 43 | 2°26'29 | 12° 8 | 21°28 | 26°14 | 28°28 | 10°22 | 19° 7 | 8°44 | 21° 5 | 9°35 | 10°52 | 12° 7 | 28°57 | 11°40 |
| T 27 | 20 16 40 | 3°23'51 | 24° 0 | 23°29 | 27°24 | 28°45 | 10°15 | 19°15 | 8°42 | 21° 4 | 9°35 | 10°54 | 12° 4 | 29° 3 | 11°41 |
| W28 | 20 20 36 | 4°21'13 | 5♎51 | 25°32 | 28°35 | 29° 2 | 10° 9 | 19°22 | 8°40 | 21° 2 | 9°34 | 10°R54 | 12° 1 | 29°10 | 11°43 |
| T 29 | 20 24 33 | 5°18'35 | 17°46 | 27°36 | 29°45 | 29°18 | 10° 3 | 19°30 | 8°37 | 21° 1 | 9°34 | 10°53 | 11°58 | 29°17 | 11°44 |
| F 30 | 20 28 30 | 6°15'58 | 29°49 | 29°40 | 0♄55 | 29°33 | 9°56 | 19°37 | 8°35 | 20°59 | 9°33 | 10°51 | 11°54 | 29°23 | 11°45 |
| S 31 | 20 32 26 | 7♁13'22 | 12♁ 5 | 1♁45 | 2♄ 6 | 29♁48 | 9°Z50 | 19♁45 | 8≈32 | 20°Z58 | 9°V33 | 10♎47 | 11♎51 | 29♁30 | 11♄46 |

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AUGUST 1830

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|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|--------|
| S 1 | 20 36 23 | 8♁10'46 | 24♁37 | 3♁51 | 3♄16 | 0°V 2 | 9°R44 | 19♁52 | 8°R30 | 20°R56 | 9°R33 | 10°R42 | 11♎48 | 29♁37 | 11♄47 |
| M 2 | 20 40 19 | 9° 8'11 | 7♄28 | 5°56 | 4°27 | 0°16 | 9°Z39 | 20° 0 | 8≈28 | 20°Z55 | 9°V32 | 10♎37 | 11°45 | 29°43 | 11°48 |
| T 3 | 20 44 16 | 10° 5'37 | 20°38 | 8° 1 | 5°38 | 0°28 | 9°33 | 20° 7 | 8°25 | 20°53 | 9°32 | 10°33 | 11°42 | 29°50 | 11°48 |
| W 4 | 20 48 12 | 11° 3'04 | 4≈ 7 | 10° 6 | 6°49 | 0°40 | 9°27 | 20°15 | 8°23 | 20°51 | 9°31 | 10°28 | 11°39 | 29°57 | 11°49 |
| T 5 | 20 52 9 | 12° 0'31 | 17°53 | 12°10 | 7°59 | 0°52 | 9°22 | 20°23 | 8°20 | 20°50 | 9°31 | 10°26 | 11°35 | 0♎ 4 | 11°50 |
| F 6 | 20 56 5 | 12°58'00 | 1♁53 | 14°13 | 9°10 | 1° 2 | 9°17 | 20°30 | 8°18 | 20°49 | 9°30 | 10°24 | 11°32 | 0°10 | 11°51 |
| S 7 | 21 0 2 | 13°55'30 | 16° 4 | 16°15 | 10°21 | 1°12 | 9°11 | 20°38 | 8°16 | 20°47 | 9°29 | 10°D24 | 11°29 | 0°17 | 11°51 |
| S 8 | 21 3 59 | 14°53'01 | 0°V21 | 18°16 | 11°33 | 1°21 | 9° 6 | 20°45 | 8°13 | 20°46 | 9°29 | 10°25 | 11°26 | 0°24 | 11°52 |
| M 9 | 21 7 55 | 15°50'33 | 14°40 | 20°15 | 12°44 | 1°30 | 9° 2 | 20°53 | 8°11 | 20°44 | 9°28 | 10°26 | 11°23 | 0°30 | 11°52 |
| T 10 | 21 11 52 | 16°48'07 | 28°59 | 22°14 | 13°55 | 1°37 | 8°57 | 21° 1 | 8° 9 | 20°43 | 9°28 | 10°28 | 11°20 | 0°37 | 11°53 |
| W11 | 21 15 48 | 17°45'42 | 13♄14 | 24°11 | 15° 6 | 1°44 | 8°52 | 21° 8 | 8° 6 | 20°41 | 9°27 | 10°R28 | 11°16 | 0°44 | 11°53 |
| T 12 | 21 19 45 | 18°43'19 | 27°23 | 26° 6 | 16°18 | 1°50 | 8°48 | 21°16 | 8° 4 | 20°40 | 9°26 | 10°28 | 11°13 | 0°50 | 11°53 |
| F 13 | 21 23 41 | 19°40'58 | 11♂24 | 28° 1 | 17°29 | 1°55 | 8°44 | 21°24 | 8° 1 | 20°39 | 9°26 | 10°27 | 11°10 | 0°57 | 11°54 |
| S 14 | 21 27 38 | 20°38'38 | 25°15 | 29°53 | 18°41 | 1°59 | 8°40 | 21°31 | 7°59 | 20°37 | 9°25 | 10°25 | 11° 7 | 1° 4 | 11°54 |
| S 15 | 21 31 34 | 21°36'19 | 8♄56 | 1♎45 | 19°52 | 2° 3 | 8°36 | 21°39 | 7°57 | 20°36 | 9°24 | 10°23 | 11° 4 | 1°10 | 11°54 |
| M16 | 21 35 31 | 22°34'02 | 22°23 | 3°35 | 21° 4 | 2° 6 | 8°32 | 21°47 | 7°55 | 20°35 | 9°24 | 10°20 | 11° 0 | 1°17 | 11°54 |
| T 17 | 21 39 28 | 23°31'47 | 5♁37 | 5°23 | 22°16 | 2° 7 | 8°29 | 21°54 | 7°52 | 20°33 | 9°23 | 10°18 | 10°57 | 1°24 | 11°R54 |
| W18 | 21 43 24 | 24°29'33 | 18°36 | 7°10 | 23°28 | 2° 8 | 8°25 | 22° 2 | 7°50 | 20°32 | 9°22 | 10°16 | 10°54 | 1°31 | 11°54 |
| T 19 | 21 47 21 | 25°27'20 | 1♎20 | 8°56 | 24°40 | 2°R 8 | 8°22 | 22°10 | 7°48 | 20°31 | 9°21 | 10°15 | 10°51 | 1°37 | 11°54 |
| F 20 | 21 51 17 | 26°25'08 | 13°49 | 10°40 | 25°52 | 2° 8 | 8°19 | 22°17 | 7°46 | 20°29 | 9°20 | 10°D15 | 10°48 | 1°44 | 11°54 |
| S 21 | 21 55 14 | 27°22'58 | 26° 6 | 12°23 | 27° 4 | 2° 6 | 8°16 | 22°25 | 7°43 | 20°28 | 9°20 | 10°15 | 10°45 | 1°51 | 11°54 |
| S 22 | 21 59 10 | 28°20'50 | 8♁11 | 14° 5 | 28°16 | 2° 4 | 8°14 | 22°33 | 7°41 | 20°27 | 9°19 | 10°16 | 10°41 | 1°57 | 11°53 |
| M23 | 22 3 7 | 29°18'42 | 20° 7 | 15°45 | 29°28 | 2° 0 | 8°11 | 22°40 | 7°39 | 20°26 | 9°18 | 10°17 | 10°38 | 2° 4 | 11°53 |
| T 24 | 22 7 3 | 0♎16'36 | 1♎59 | 17°24 | 0♁40 | 1°56 | 8° 9 | 22°48 | 7°37 | 20°25 | 9°17 | 10°19 | 10°35 | 2°11 | 11°52 |
| W25 | 22 11 0 | 1°14'31 | 13°50 | 19° 1 | 1°53 | 1°51 | 8° 7 | 22°56 | 7°35 | 20°24 | 9°16 | 10°19 | 10°32 | 2°17 | 11°52 |
| T 26 | 22 14 56 | 2°12'28 | 25°44 | 20°37 | 3° 5 | 1°45 | 8° 5 | 23° 3 | 7°33 | 20°22 | 9°15 | 10°20 | 10°29 | 2°24 | 11°52 |
| F 27 | 22 18 53 | 3°10'26 | 7♁46 | 22°12 | 4°17 | 1°39 | 8° 3 | 23°11 | 7°30 | 20°21 | 9°14 | 10°R20 | 10°25 | 2°31 | 11°51 |
| S 28 | 22 22 50 | 4° 8'25 | 20° 1 | 23°46 | 5°30 | 1°32 | 8° 2 | 23°18 | 7°28 | 20°20 | 9°14 | 10°19 | 10°22 | 2°37 | 11°50 |
| S 29 | 22 26 46 | 5° 6'25 | 2♄33 | 25°18 | 6°42 | 1°24 | 8° 0 | 23°26 | 7°26 | 20°19 | 9°13 | 10°19 | 10°19 | 2°44 | 11°50 |
| M30 | 22 30 43 | 6° 4'27 | 15°26 | 26°49 | 7°55 | 1°15 | 7°59 | 23°34 | 7°24 | 20°18 | 9°12 | 10°18 | 10°16 | 2°51 | 11°49 |
| T 31 | 22 34 39 | 7♎ 2'31 | 28♄41 | 28♎19 | 9♁ 8 | 1°V 5 | 7°Z58 | 23♁41 | 7≈22 | 20°Z17 | 9°V11 | 10♎18 | 10♎13 | 2♎58 | 11♄48 |

Delta T = 6.83 sec.

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SWISS EPHEMERIS for the year 1830

SEPTEMBER 1830

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|-----------------------|---------------------|--------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|-------------------|---------------------|
| W 1 | 22 38 36 | 8 ^m 0'36 | 12 ^m 20 | 29 ^m 47 | 10 ^m 20 | 0°R55 | 7°R57 | 23 ^h Ω49 | 7°R20 | 20°R16 | 9°R10 | 10°R18 | 10 ^m 10 | 3 ^m 4 | 11°R47 |
| T 2 | 22 42 32 | 8°58'42 | 26°22 | 1 ^m 14 | 11°33 | 0°Y44 | 7 ^h Ω57 | 23°56 | 7 ^m 18 | 20 ^h Ω15 | 9°Y 9 | 10 ^m 18 | 10° 6 | 3°11 | 11 ^h Ω46 |
| F 3 | 22 46 29 | 9°56'50 | 10 ^h Ω43 | 2°39 | 12°46 | 0°32 | 7°57 | 24° 4 | 7°17 | 20°14 | 9° 8 | 10°18 | 10° 3 | 3°18 | 11°45 |
| S 4 | 22 50 25 | 10°54'59 | 25°19 | 4° 4 | 13°59 | 0°20 | 7°D56 | 24°11 | 7°15 | 20°14 | 9° 7 | 10°18 | 10° 0 | 3°24 | 11°44 |
| S 5 | 22 54 22 | 11°53'11 | 10°Y 3 | 5°27 | 15°12 | 0° 7 | 7°56 | 24°19 | 7°13 | 20°13 | 9° 6 | 10°18 | 9°57 | 3°31 | 11°43 |
| M 6 | 22 58 19 | 12°51'24 | 24°48 | 6°48 | 16°25 | 29 ^h Ω54 | 7°57 | 24°26 | 7°11 | 20°12 | 9° 5 | 10°17 | 9°54 | 3°38 | 11°42 |
| T 7 | 23 2 15 | 13°49'40 | 9 ^h Ω28 | 8° 8 | 17°38 | 29°40 | 7°57 | 24°33 | 7° 9 | 20°11 | 9° 4 | 10°17 | 9°51 | 3°44 | 11°41 |
| W 8 | 23 6 12 | 14°47'57 | 23°57 | 9°27 | 18°51 | 29°25 | 7°58 | 24°41 | 7° 8 | 20°10 | 9° 3 | 10°17 | 9°47 | 3°51 | 11°40 |
| T 9 | 23 10 8 | 15°46'17 | 8 ^h II12 | 10°43 | 20° 4 | 29°10 | 7°58 | 24°48 | 7° 6 | 20°10 | 9° 2 | 10°16 | 9°44 | 3°58 | 11°38 |
| F 10 | 23 14 5 | 16°44'39 | 22° 9 | 11°59 | 21°17 | 28°55 | 7°59 | 24°55 | 7° 4 | 20° 9 | 9° 1 | 10°D16 | 9°41 | 4° 4 | 11°37 |
| S 11 | 23 18 1 | 17°43'03 | 5 ^h Ω49 | 13°13 | 22°31 | 28°39 | 8° 0 | 25° 3 | 7° 2 | 20° 8 | 8°59 | 10°17 | 9°38 | 4°11 | 11°36 |
| S 12 | 23 21 58 | 18°41'29 | 19°11 | 14°24 | 23°44 | 28°23 | 8° 2 | 25°10 | 7° 1 | 20° 7 | 8°58 | 10°17 | 9°35 | 4°18 | 11°34 |
| M13 | 23 25 54 | 19°39'57 | 2 ^h Ω18 | 15°35 | 24°58 | 28° 6 | 8° 3 | 25°17 | 6°59 | 20° 7 | 8°57 | 10°18 | 9°31 | 4°25 | 11°33 |
| T 14 | 23 29 51 | 20°38'27 | 15° 9 | 16°43 | 26°11 | 27°49 | 8° 5 | 25°24 | 6°58 | 20° 6 | 8°56 | 10°19 | 9°28 | 4°31 | 11°31 |
| W15 | 23 33 48 | 21°36'59 | 27°46 | 17°49 | 27°25 | 27°32 | 8° 7 | 25°32 | 6°56 | 20° 6 | 8°55 | 10°20 | 9°25 | 4°38 | 11°29 |
| T 16 | 23 37 44 | 22°35'34 | 10 ^m 12 | 18°53 | 28°38 | 27°15 | 8° 9 | 25°39 | 6°55 | 20° 5 | 8°54 | 10°R20 | 9°22 | 4°45 | 11°28 |
| F 17 | 23 41 41 | 23°34'10 | 22°27 | 19°55 | 29°52 | 26°58 | 8°11 | 25°46 | 6°53 | 20° 5 | 8°53 | 10°20 | 9°19 | 4°51 | 11°26 |
| S 18 | 23 45 37 | 24°32'48 | 4 ^h Ω34 | 20°54 | 1 ^m 6 | 26°41 | 8°14 | 25°53 | 6°52 | 20° 4 | 8°52 | 10°19 | 9°16 | 4°58 | 11°24 |
| S 19 | 23 49 34 | 25°31'28 | 16°32 | 21°50 | 2°19 | 26°23 | 8°16 | 26° 0 | 6°51 | 20° 4 | 8°51 | 10°17 | 9°12 | 5° 5 | 11°22 |
| M20 | 23 53 30 | 26°30'10 | 28°26 | 22°44 | 3°33 | 26° 6 | 8°19 | 26° 7 | 6°49 | 20° 3 | 8°49 | 10°14 | 9° 9 | 5°11 | 11°20 |
| T 21 | 23 57 27 | 27°28'54 | 10 ^m 16 | 23°35 | 4°47 | 25°49 | 8°22 | 26°14 | 6°48 | 20° 3 | 8°48 | 10°12 | 9° 6 | 5°18 | 11°19 |
| W22 | 0 1 23 | 28°27'39 | 22° 6 | 24°22 | 6° 1 | 25°32 | 8°26 | 26°21 | 6°47 | 20° 2 | 8°47 | 10° 9 | 9° 3 | 5°25 | 11°17 |
| T 23 | 0 5 20 | 29°26'27 | 4 ^h 0 | 25° 6 | 7°15 | 25°15 | 8°29 | 26°28 | 6°46 | 20° 2 | 8°46 | 10° 7 | 9° 0 | 5°32 | 11°15 |
| F 24 | 0 9 17 | 0 ^h Ω25'16 | 16° 1 | 25°45 | 8°29 | 24°58 | 8°33 | 26°34 | 6°45 | 20° 2 | 8°45 | 10° 5 | 8°57 | 5°38 | 11°12 |
| S 25 | 0 13 13 | 1°24'07 | 28°12 | 26°21 | 9°43 | 24°42 | 8°36 | 26°41 | 6°44 | 20° 2 | 8°44 | 10°D 4 | 8°53 | 5°45 | 11°10 |
| S 26 | 0 17 10 | 2°23'00 | 10 ^h Ω40 | 26°52 | 10°57 | 24°26 | 8°40 | 26°48 | 6°43 | 20° 1 | 8°43 | 10° 5 | 8°50 | 5°52 | 11° 8 |
| M27 | 0 21 6 | 3°21'54 | 23°28 | 27°18 | 12°11 | 24°10 | 8°44 | 26°55 | 6°42 | 20° 1 | 8°41 | 10° 6 | 8°47 | 5°58 | 11° 6 |
| T 28 | 0 25 3 | 4°20'50 | 6 ^h Ω39 | 27°39 | 13°25 | 23°55 | 8°49 | 27° 1 | 6°41 | 20° 1 | 8°40 | 10° 7 | 8°44 | 6° 5 | 11° 4 |
| W29 | 0 28 59 | 5°19'48 | 20°17 | 27°54 | 14°39 | 23°40 | 8°53 | 27° 8 | 6°40 | 20° 1 | 8°39 | 10° 9 | 8°41 | 6°12 | 11° 1 |
| T 30 | 0 32 56 | 6 ^h Ω18'48 | 4 ^h Ω22 | 28 ^h 3 | 15 ^m 53 | 23 ^h Ω26 | 8 ^h Ω58 | 27 ^h Ω14 | 6 ^h Ω39 | 20 ^h 1 | 8 ^h Y38 | 10°R 9 | 8 ^m 37 | 6 ^m 18 | 10 ^h Ω59 |

Delta T = 6.79 sec.

OCTOBER 1830

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|-------|-------------------|-------------------|-------------------|---------------------|
| F 1 | 0 36 52 | 7 ^h Ω17'50 | 18 ^h Ω53 | 28°R 5 | 17 ^m 8 | 23°R12 | 9 ^h 3 | 27 ^h Ω21 | 6°R38 | 20°R 1 | 8°R37 | 10°R 9 | 8 ^m 34 | 6 ^m 25 | 10°R57 |
| S 2 | 0 40 49 | 8°16'53 | 3°Y44 | 28 ^h 0 | 18°22 | 22 ^h Ω59 | 9° 8 | 27°27 | 6 ^h Ω37 | 20°D 1 | 8°Y36 | 10 ^m 8 | 8°31 | 6°32 | 10 ^h Ω54 |
| S 3 | 0 44 45 | 9°15'58 | 18°49 | 27°48 | 19°36 | 22°46 | 9°13 | 27°34 | 6°37 | 20 ^h Ω 1 | 8°34 | 10° 5 | 8°28 | 6°39 | 10°52 |
| M 4 | 0 48 42 | 10°15'06 | 3 ^h Ω58 | 27°28 | 20°51 | 22°34 | 9°18 | 27°40 | 6°36 | 20° 1 | 8°33 | 10° 1 | 8°25 | 6°45 | 10°49 |
| T 5 | 0 52 39 | 11°14'16 | 19° 2 | 27° 0 | 22° 5 | 22°23 | 9°24 | 27°46 | 6°35 | 20° 1 | 8°32 | 9°57 | 8°22 | 6°52 | 10°47 |
| W 6 | 0 56 35 | 12°13'28 | 3 ^h II51 | 26°24 | 23°19 | 22°12 | 9°29 | 27°53 | 6°35 | 20° 1 | 8°31 | 9°52 | 8°18 | 6°59 | 10°44 |
| T 7 | 1 0 32 | 13°12'42 | 18°20 | 25°40 | 24°34 | 22° 2 | 9°35 | 27°59 | 6°34 | 20° 1 | 8°30 | 9°49 | 8°15 | 7° 5 | 10°42 |
| F 8 | 1 4 28 | 14°11'59 | 2 ^h Ω24 | 24°48 | 25°48 | 21°53 | 9°41 | 28° 5 | 6°34 | 20° 1 | 8°29 | 9°47 | 8°12 | 7°12 | 10°39 |
| S 9 | 1 8 25 | 15°11'18 | 16° 3 | 23°50 | 27° 3 | 21°44 | 9°47 | 28°11 | 6°33 | 20° 1 | 8°27 | 9°D46 | 8° 9 | 7°19 | 10°37 |
| S 10 | 1 12 21 | 16°10'40 | 29°18 | 22°46 | 28°18 | 21°36 | 9°53 | 28°17 | 6°33 | 20° 2 | 8°26 | 9°47 | 8° 6 | 7°25 | 10°34 |
| M11 | 1 16 18 | 17°10'04 | 12 ^h Ω12 | 21°37 | 29°32 | 21°29 | 10° 0 | 28°23 | 6°33 | 20° 2 | 8°25 | 9°48 | 8° 2 | 7°32 | 10°31 |
| T 12 | 1 20 14 | 18° 9'30 | 24°49 | 20°25 | 0 ^h Ω47 | 21°23 | 10° 6 | 28°29 | 6°32 | 20° 2 | 8°24 | 9°50 | 7°59 | 7°39 | 10°29 |
| W13 | 1 24 11 | 19° 8'58 | 7 ^m 11 | 19°13 | 2° 2 | 21°17 | 10°13 | 28°35 | 6°32 | 20° 3 | 8°23 | 9°R51 | 7°56 | 7°46 | 10°26 |
| T 14 | 1 28 8 | 20° 8'28 | 19°22 | 18° 1 | 3°16 | 21°12 | 10°20 | 28°40 | 6°32 | 20° 3 | 8°22 | 9°50 | 7°53 | 7°52 | 10°23 |
| F 15 | 1 32 4 | 21° 8'01 | 1 ^h Ω25 | 16°52 | 4°31 | 21° 8 | 10°27 | 28°46 | 6°32 | 20° 3 | 8°20 | 9°48 | 7°50 | 7°59 | 10°20 |
| S 16 | 1 36 1 | 22° 7'36 | 13°22 | 15°48 | 5°46 | 21° 5 | 10°34 | 28°52 | 6°32 | 20° 4 | 8°19 | 9°44 | 7°47 | 8° 6 | 10°17 |
| S 17 | 1 39 57 | 23° 7'13 | 25°15 | 14°51 | 7° 1 | 21° 2 | 10°42 | 28°57 | 6°D32 | 20° 4 | 8°18 | 9°37 | 7°43 | 8°12 | 10°14 |
| M18 | 1 43 54 | 24° 6'52 | 7 ^m 6 | 14° 2 | 8°16 | 21° 1 | 10°49 | 29° 3 | 6°32 | 20° 5 | 8°17 | 9°29 | 7°40 | 8°19 | 10°12 |
| T 19 | 1 47 50 | 25° 6'32 | 18°57 | 13°24 | 9°31 | 21° 0 | 10°57 | 29° 8 | 6°32 | 20° 5 | 8°16 | 9°20 | 7°37 | 8°26 | 10° 9 |
| W20 | 1 51 47 | 26° 6'15 | 0 ^h Ω49 | 12°56 | 10°45 | 21°D 0 | 11° 5 | 29°13 | 6°32 | 20° 6 | 8°15 | 9°11 | 7°34 | 8°32 | 10° 6 |
| T 21 | 1 55 43 | 27° 6'00 | 12°44 | 12°39 | 12° 0 | 21° 1 | 11°13 | 29°19 | 6°32 | 20° 6 | 8°14 | 9° 2 | 7°31 | 8°39 | 10° 3 |
| F 22 | 1 59 40 | 28° 5'46 | 24°46 | 12°D34 | 13°15 | 21° 2 | 11°21 | 29°24 | 6°33 | 20° 7 | 8°13 | 8°56 | 7°28 | 8°46 | 10° 0 |
| S 23 | 2 3 37 | 29° 5'35 | 6 ^h Ω57 | 12°40 | 14°30 | 21° 4 | 11°29 | 29°29 | 6°33 | 20° 8 | 8°12 | 8°51 | 7°24 | 8°53 | 9°57 |
| S 24 | 2 7 33 | 0 ^m 5'25 | 19°21 | 12°57 | 15°45 | 21° 8 | 11°37 | 29°34 | 6°33 | 20° 8 | 8°10 | 8°48 | 7°21 | 8°59 | 9°54 |
| M25 | 2 11 30 | 1° 5'16 | 2 ^h Ω 2 | 13°23 | 17° 0 | 21°12 | 11°46 | 29°39 | 6°34 | 20° 9 | 8° 9 | 8°D47 | 7°18 | 9° 6 | 9°51 |
| T 26 | 2 15 26 | 2° 5'10 | 15° 5 | 13°59 | 18°15 | 21°16 | 11°54 | 29°44 | 6°34 | 20°10 | 8° 8 | 8°48 | 7°15 | 9°13 | 9°48 |
| W27 | 2 19 23 | 3° 5'05 | 28°34 | 14°44 | 19°31 | 21°22 | 12° 3 | 29°49 | 6°34 | 20°11 | 8° 7 | 8°49 | 7°12 | 9°19 | 9°45 |
| T 28 | 2 23 19 | 4° 5'01 | 12 ^h Ω30 | 15°36 | 20°46 | 21°28 | 12°12 | 29°53 | 6°35 | 20°12 | 8° 6 | 8°R49 | 7° 8 | 9°26 | 9°42 |
| F 29 | 2 27 16 | 5° 4'59 | 26°55 | 16°36 | 22° 1 | 21°35 | 12°21 | 29°58 | 6°36 | 20°12 | 8° 5 | 8°48 | 7° 5 | 9°33 | 9°39 |
| S 30 | 2 31 12 | 6° 4'59 | 11°Y45 | 17°41 | 23°16 | 21°43 | 12°30 | 0 ^m 2 | 6°36 | 20°13 | 8° 4 | 8°44 | 7° 2 | 9°40 | 9°36 |
| S 31 | 2 35 9 | 7 ^m 5'01 | 26°Y55 | 18 ^h Ω51 | 24 ^h Ω31 | 21 ^h Ω51 | 12 ^h Ω39 | 0 ^m 7 | 6 ^h Ω37 | 20 ^h Ω14 | 8°Y 3 | 8 ^m 38 | 6 ^m 59 | 9 ^m 46 | 9 ^h Ω33 |

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SWISS EPHEMERIS for the year 1830

NOVEMBER 1830

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|------|-------|-------|---|
| M 1 | 2 39 5 | 8♁ 5'04 | 12♁15 | 20♁ 6 | 25♁46 | 22♁ 0 | 12♁49 | 0♁11 | 6♁38 | 20♁15 | 8°R 2 | 8°R30 | 6♁56 | 9♁53 | 9°R30 | |
| T 2 | 2 43 2 | 9° 5'09 | 27°34 | 21°25 | 27° 1 | 22°10 | 12°58 | 0°16 | 6°38 | 20°16 | 8°Y 1 | 8♁21 | 6°53 | 10° 0 | 9♁27 | |
| W 3 | 2 46 59 | 10° 5'17 | 12♁40 | 22°47 | 28°17 | 22°21 | 13° 8 | 0°20 | 6°39 | 20°17 | 8° 0 | 8°11 | 6°49 | 10° 6 | 9°24 | |
| T 4 | 2 50 55 | 11° 5'26 | 27°25 | 24°12 | 29°32 | 22°32 | 13°18 | 0°24 | 6°40 | 20°18 | 7°59 | 8° 3 | 6°46 | 10°13 | 9°21 | |
| F 5 | 2 54 52 | 12° 5'38 | 11♁42 | 25°40 | 0♁47 | 22°44 | 13°28 | 0°28 | 6°41 | 20°19 | 7°58 | 7°57 | 6°43 | 10°20 | 9°18 | |
| S 6 | 2 58 48 | 13° 5'51 | 25°30 | 27° 9 | 2° 2 | 22°56 | 13°38 | 0°32 | 6°42 | 20°21 | 7°57 | 7°54 | 6°40 | 10°27 | 9°15 | |
| S 7 | 3 2 45 | 14° 6'07 | 8♁48 | 28°39 | 3°17 | 23° 9 | 13°48 | 0°36 | 6°43 | 20°22 | 7°56 | 7°D52 | 6°37 | 10°33 | 9°11 | |
| M 8 | 3 6 41 | 15° 6'24 | 21°41 | 0♁11 | 4°33 | 23°23 | 13°58 | 0°39 | 6°44 | 20°23 | 7°56 | 7°52 | 6°34 | 10°40 | 9° 8 | |
| T 9 | 3 10 38 | 16° 6'44 | 4♁12 | 1°44 | 5°48 | 23°37 | 14° 8 | 0°43 | 6°45 | 20°24 | 7°55 | 7°R53 | 6°30 | 10°47 | 9° 5 | |
| W10 | 3 14 35 | 17° 7'05 | 16°27 | 3°18 | 7° 3 | 23°52 | 14°19 | 0°47 | 6°47 | 20°25 | 7°54 | 7°52 | 6°27 | 10°53 | 9° 2 | |
| T 11 | 3 18 31 | 18° 7'28 | 28°30 | 4°52 | 8°19 | 24° 7 | 14°29 | 0°50 | 6°48 | 20°27 | 7°53 | 7°50 | 6°24 | 11° 0 | 8°59 | |
| F 12 | 3 22 28 | 19° 7'53 | 10♁25 | 6°27 | 9°34 | 24°24 | 14°40 | 0°53 | 6°49 | 20°28 | 7°52 | 7°46 | 6°21 | 11° 7 | 8°56 | |
| S 13 | 3 26 24 | 20° 8'20 | 22°16 | 8° 2 | 10°49 | 24°40 | 14°50 | 0°57 | 6°51 | 20°29 | 7°51 | 7°38 | 6°18 | 11°13 | 8°53 | |
| S 14 | 3 30 21 | 21° 8'49 | 4♁ 7 | 9°38 | 12° 5 | 24°57 | 15° 1 | 1° 0 | 6°52 | 20°31 | 7°50 | 7°28 | 6°14 | 11°20 | 8°50 | |
| M15 | 3 34 17 | 22° 9'20 | 15°58 | 11°13 | 13°20 | 25°15 | 15°12 | 1° 3 | 6°53 | 20°32 | 7°50 | 7°15 | 6°11 | 11°27 | 8°47 | |
| T 16 | 3 38 14 | 23° 9'52 | 27°51 | 12°49 | 14°36 | 25°33 | 15°23 | 1° 6 | 6°55 | 20°33 | 7°49 | 7° 0 | 6° 8 | 11°34 | 8°45 | |
| W17 | 3 42 10 | 24°10'26 | 9♁48 | 14°25 | 15°51 | 25°52 | 15°34 | 1° 9 | 6°56 | 20°35 | 7°48 | 6°46 | 6° 5 | 11°40 | 8°42 | |
| T 18 | 3 46 7 | 25°11'01 | 21°50 | 16° 0 | 17° 6 | 26°11 | 15°46 | 1°12 | 6°58 | 20°36 | 7°47 | 6°32 | 6° 2 | 11°47 | 8°39 | |
| F 19 | 3 50 3 | 26°11'37 | 3♁59 | 17°36 | 18°22 | 26°31 | 15°57 | 1°14 | 7° 0 | 20°38 | 7°47 | 6°21 | 5°59 | 11°54 | 8°36 | |
| S 20 | 3 54 0 | 27°12'15 | 16°15 | 19°11 | 19°37 | 26°51 | 16° 8 | 1°17 | 7° 1 | 20°39 | 7°46 | 6°12 | 5°55 | 12° 0 | 8°33 | |
| S 21 | 3 57 57 | 28°12'54 | 28°43 | 20°47 | 20°53 | 27°12 | 16°20 | 1°19 | 7° 3 | 20°41 | 7°45 | 6° 6 | 5°52 | 12° 7 | 8°30 | |
| M22 | 4 1 53 | 29°13'35 | 11♁24 | 22°22 | 22° 8 | 27°33 | 16°31 | 1°22 | 7° 5 | 20°42 | 7°45 | 6° 3 | 5°49 | 12°14 | 8°27 | |
| T 23 | 4 5 50 | 0♁14'16 | 24°22 | 23°57 | 23°24 | 27°55 | 16°43 | 1°24 | 7° 7 | 20°44 | 7°44 | 6° 2 | 5°46 | 12°21 | 8°25 | |
| W24 | 4 9 46 | 1°14'58 | 7♁42 | 25°32 | 24°39 | 28°17 | 16°55 | 1°26 | 7° 8 | 20°46 | 7°43 | 6° 2 | 5°43 | 12°27 | 8°22 | |
| T 25 | 4 13 43 | 2°15'42 | 21°26 | 27° 7 | 25°55 | 28°39 | 17° 7 | 1°28 | 7°10 | 20°47 | 7°43 | 6° 2 | 5°39 | 12°34 | 8°19 | |
| F 26 | 4 17 39 | 3°16'26 | 5♁36 | 28°42 | 27°10 | 29° 2 | 17°19 | 1°30 | 7°12 | 20°49 | 7°42 | 6° 0 | 5°36 | 12°41 | 8°16 | |
| S 27 | 4 21 36 | 4°17'11 | 20°11 | 0♁17 | 28°25 | 29°25 | 17°31 | 1°32 | 7°14 | 20°51 | 7°42 | 5°55 | 5°33 | 12°47 | 8°14 | |
| S 28 | 4 25 32 | 5°17'58 | 5♁ 7 | 1°51 | 29°41 | 29°49 | 17°43 | 1°34 | 7°16 | 20°52 | 7°41 | 5°47 | 5°30 | 12°54 | 8°11 | |
| M29 | 4 29 29 | 6°18'45 | 20°19 | 3°26 | 0♁56 | 0♁13 | 17°55 | 1°35 | 7°18 | 20°54 | 7°40 | 5°37 | 5°27 | 13° 1 | 8° 8 | |
| T 30 | 4 33 26 | 7♁19'34 | 5♁34 | 5♁ 0 | 2♁12 | 0♁37 | 18♁ 7 | 1♁37 | 7♁20 | 20♁56 | 7♁40 | 5♁26 | 5♁24 | 13♁ 8 | 8♁ 6 | |

Delta T = 6.71 sec.

DECEMBER 1830

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|--------|-------|-------|------|-------|-------|-------|------|-------|-------|---|
| W 1 | 4 37 22 | 8♁20'24 | 20♁43 | 6♁34 | 3♁27 | 1°Y 2 | 18♁20 | 1♁38 | 7♁23 | 20♁57 | 7°R39 | 5°R14 | 5♁20 | 13♁14 | 8°R 3 | |
| T 2 | 4 41 19 | 9°21'15 | 5♁35 | 8° 9 | 4°43 | 1°27 | 18°32 | 1°39 | 7°25 | 20°59 | 7°Y39 | 5♁ 3 | 5°17 | 13°21 | 8♁ 1 | |
| F 3 | 4 45 15 | 10°22'07 | 20° 1 | 9°43 | 5°58 | 1°52 | 18°44 | 1°40 | 7°27 | 21° 1 | 7°39 | 4°55 | 5°14 | 13°28 | 7°58 | |
| S 4 | 4 49 12 | 11°23'01 | 3♁58 | 11°17 | 7°14 | 2°18 | 18°57 | 1°42 | 7°29 | 21° 3 | 7°38 | 4°50 | 5°11 | 13°34 | 7°56 | |
| S 5 | 4 53 8 | 12°23'56 | 17°24 | 12°51 | 8°29 | 2°44 | 19° 9 | 1°42 | 7°32 | 21° 5 | 7°38 | 4°47 | 5° 8 | 13°41 | 7°54 | |
| M 6 | 4 57 5 | 13°24'52 | 0♁23 | 14°26 | 9°45 | 3°11 | 19°22 | 1°43 | 7°34 | 21° 7 | 7°37 | 4°D46 | 5° 5 | 13°48 | 7°51 | |
| T 7 | 5 1 2 | 14°25'49 | 12°57 | 16° 0 | 11° 0 | 3°37 | 19°35 | 1°44 | 7°36 | 21° 9 | 7°37 | 4°R46 | 5° 1 | 13°55 | 7°49 | |
| W 8 | 5 4 58 | 15°26'48 | 25°13 | 17°34 | 12°16 | 4° 4 | 19°48 | 1°45 | 7°39 | 21°11 | 7°37 | 4°45 | 4°58 | 14° 1 | 7°47 | |
| T 9 | 5 8 55 | 16°27'47 | 7♁15 | 19° 8 | 13°31 | 4°32 | 20° 1 | 1°45 | 7°41 | 21°12 | 7°36 | 4°44 | 4°55 | 14° 8 | 7°44 | |
| F 10 | 5 12 51 | 17°28'48 | 19° 8 | 20°43 | 14°47 | 4°59 | 20°13 | 1°46 | 7°44 | 21°14 | 7°36 | 4°40 | 4°52 | 14°15 | 7°42 | |
| S 11 | 5 16 48 | 18°29'50 | 0♁58 | 22°17 | 16° 2 | 5°27 | 20°26 | 1°46 | 7°46 | 21°16 | 7°36 | 4°33 | 4°49 | 14°21 | 7°40 | |
| S 12 | 5 20 44 | 19°30'52 | 12°48 | 23°52 | 17°18 | 5°55 | 20°39 | 1°46 | 7°49 | 21°18 | 7°35 | 4°23 | 4°45 | 14°28 | 7°38 | |
| M13 | 5 24 41 | 20°31'56 | 24°41 | 25°27 | 18°33 | 6°23 | 20°53 | 1°R46 | 7°52 | 21°20 | 7°35 | 4°10 | 4°42 | 14°35 | 7°36 | |
| T 14 | 5 28 37 | 21°33'01 | 6♁39 | 27° 2 | 19°49 | 6°52 | 21° 6 | 1°46 | 7°54 | 21°22 | 7°35 | 3°57 | 4°39 | 14°42 | 7°34 | |
| W15 | 5 32 34 | 22°34'06 | 18°44 | 28°36 | 21° 4 | 7°21 | 21°19 | 1°46 | 7°57 | 21°24 | 7°35 | 3°43 | 4°36 | 14°48 | 7°32 | |
| T 16 | 5 36 31 | 23°35'12 | 0♁57 | 0♁11 | 22°20 | 7°50 | 21°32 | 1°46 | 8° 0 | 21°26 | 7°35 | 3°29 | 4°33 | 14°55 | 7°30 | |
| F 17 | 5 40 27 | 24°36'19 | 13°18 | 1°47 | 23°36 | 8°20 | 21°45 | 1°45 | 8° 2 | 21°29 | 7°35 | 3°18 | 4°30 | 15° 2 | 7°28 | |
| S 18 | 5 44 24 | 25°37'26 | 25°49 | 3°22 | 24°51 | 8°49 | 21°59 | 1°45 | 8° 5 | 21°31 | 7°34 | 3°10 | 4°26 | 15° 8 | 7°27 | |
| S 19 | 5 48 20 | 26°38'34 | 8♁29 | 4°57 | 26° 7 | 9°19 | 22°12 | 1°44 | 8° 8 | 21°33 | 7°34 | 3° 4 | 4°23 | 15°15 | 7°25 | |
| M20 | 5 52 17 | 27°39'41 | 21°21 | 6°33 | 27°22 | 9°49 | 22°26 | 1°43 | 8°11 | 21°35 | 7°34 | 3° 1 | 4°20 | 15°22 | 7°23 | |
| T 21 | 5 56 13 | 28°40'49 | 4♁26 | 8° 8 | 28°38 | 10°19 | 22°39 | 1°42 | 8°14 | 21°37 | 7°34 | 3°D 1 | 4°17 | 15°29 | 7°21 | |
| W22 | 6 0 10 | 29°41'57 | 17°46 | 9°44 | 29°53 | 10°50 | 22°53 | 1°42 | 8°17 | 21°39 | 7°34 | 3° 1 | 4°14 | 15°35 | 7°20 | |
| T 23 | 6 4 6 | 0♁43'06 | 1°Y25 | 11°20 | 1♁ 9 | 11°21 | 23° 6 | 1°40 | 8°19 | 21°41 | 7°D34 | 3°R 1 | 4°11 | 15°42 | 7°18 | |
| F 24 | 6 8 3 | 1°44'14 | 15°22 | 12°56 | 2°24 | 11°51 | 23°20 | 1°39 | 8°22 | 21°43 | 7°34 | 3° 1 | 4° 7 | 15°49 | 7°17 | |
| S 25 | 6 12 0 | 2°45'22 | 29°40 | 14°31 | 3°40 | 12°23 | 23°34 | 1°38 | 8°25 | 21°46 | 7°34 | 2°58 | 4° 4 | 15°55 | 7°15 | |
| S 26 | 6 15 56 | 3°46'30 | 14♁14 | 16° 7 | 4°55 | 12°54 | 23°47 | 1°37 | 8°28 | 21°48 | 7°34 | 2°52 | 4° 1 | 16° 2 | 7°14 | |
| M27 | 6 19 53 | 4°47'39 | 29° 2 | 17°42 | 6°11 | 13°25 | 24° 1 | 1°35 | 8°31 | 21°50 | 7°34 | 2°45 | 3°58 | 16° 9 | 7°13 | |
| T 28 | 6 23 49 | 5°48'47 | 13♁56 | 19°17 | 7°26 | 13°57 | 24°15 | 1°34 | 8°34 | 21°52 | 7°35 | 2°36 | 3°55 | 16°16 | 7°12 | |
| W29 | 6 27 46 | 6°49'55 | 28°48 | 20°52 | 8°42 | 14°29 | 24°29 | 1°32 | 8°38 | 21°54 | 7°35 | 2°26 | 3°51 | 16°22 | 7°10 | |
| T 30 | 6 31 42 | 7°51'04 | 13♁28 | 22°26 | 9°57 | 15° 1 | 24°42 | 1°30 | 8°41 | 21°57 | 7°35 | 2°18 | 3°48 | 16°29 | 7° 9 | |
| F 31 | 6 35 39 | 8♁52'13 | 27♁49 | 24♁ 0 | 11♁13 | 15°Y33 | 24♁56 | 1♁28 | 8♁44 | 21♁59 | 7°Y35 | 2♁11 | 3♁45 | 16♁36 | 7♁ 8 | |

Delta T = 6.67 sec.

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