

SWISS EPHEMERIS for the year 1199

JANUARY 1199 JC

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| F 1 | 7 7 32 | 17°29'55 | 16°22 | 3°42 | 6°57 | 7°29 | 23°42 | 21°20 | 16°R18 | 11°K17 | 24°R54 | 15°L28 | 16°L56 | 11°II24 | 29°R24 |
| S 2 | 7 11 28 | 18°31'02 | 0°K24 | 5°13 | 8° 9 | 8° 7 | 23°48 | 21°26 | 16°L16 | 11°18 | 24°L52 | 15°28 | 16°53 | 11°31 | 29°D24 |
| S 3 | 7 15 25 | 19°32'07 | 13°58 | 6°42 | 9°21 | 8°45 | 23°53 | 21°33 | 16°13 | 11°20 | 24°51 | 15°30 | 16°49 | 11°38 | 29°V24 |
| M 4 | 7 19 21 | 20°33'12 | 27° 6 | 8° 7 | 10°33 | 9°23 | 23°58 | 21°40 | 16°10 | 11°21 | 24°50 | 15°32 | 16°46 | 11°44 | 29°24 |
| T 5 | 7 23 18 | 21°34'15 | 9°V51 | 9°29 | 11°45 | 10° 1 | 24° 4 | 21°46 | 16° 8 | 11°23 | 24°48 | 15°33 | 16°43 | 11°51 | 29°24 |
| W 6 | 7 27 14 | 22°35'17 | 22°16 | 10°46 | 12°57 | 10°39 | 24° 9 | 21°53 | 16° 5 | 11°25 | 24°47 | 15°R33 | 16°40 | 11°58 | 29°25 |
| T 7 | 7 31 11 | 23°36'19 | 4°Z25 | 11°58 | 14° 9 | 11°17 | 24°13 | 22° 0 | 16° 3 | 11°26 | 24°46 | 15°33 | 16°37 | 12° 5 | 29°25 |
| F 8 | 7 35 7 | 24°37'19 | 16°24 | 13° 5 | 15°21 | 11°55 | 24°18 | 22° 6 | 16° 0 | 11°28 | 24°44 | 15°31 | 16°34 | 12°11 | 29°25 |
| S 9 | 7 39 4 | 25°38'18 | 28°17 | 14° 5 | 16°34 | 12°33 | 24°23 | 22°13 | 15°57 | 11°30 | 24°43 | 15°29 | 16°30 | 12°18 | 29°26 |
| S 10 | 7 43 1 | 26°39'16 | 10°II 8 | 14°58 | 17°46 | 13°12 | 24°27 | 22°20 | 15°55 | 11°31 | 24°41 | 15°26 | 16°27 | 12°25 | 29°26 |
| M11 | 7 46 57 | 27°40'12 | 22° 0 | 15°42 | 18°58 | 13°50 | 24°31 | 22°27 | 15°52 | 11°33 | 24°40 | 15°23 | 16°24 | 12°31 | 29°27 |
| T 12 | 7 50 54 | 28°41'08 | 3°Z57 | 16°18 | 20°11 | 14°28 | 24°35 | 22°34 | 15°50 | 11°35 | 24°39 | 15°20 | 16°21 | 12°38 | 29°27 |
| W13 | 7 54 50 | 29°42'02 | 16° 0 | 16°44 | 21°23 | 15° 6 | 24°39 | 22°41 | 15°47 | 11°37 | 24°37 | 15°18 | 16°18 | 12°45 | 29°28 |
| T 14 | 7 58 47 | 0°K42'55 | 28°12 | 16°59 | 22°36 | 15°45 | 24°43 | 22°48 | 15°45 | 11°38 | 24°36 | 15°16 | 16°14 | 12°51 | 29°29 |
| F 15 | 8 2 43 | 1°43'47 | 10°L33 | 17°R 4 | 23°48 | 16°23 | 24°46 | 22°55 | 15°42 | 11°40 | 24°35 | 15°D16 | 16°11 | 12°58 | 29°29 |
| S 16 | 8 6 40 | 2°44'38 | 23° 6 | 16°57 | 25° 1 | 17° 1 | 24°49 | 23° 2 | 15°40 | 11°42 | 24°33 | 15°16 | 16° 8 | 13° 5 | 29°30 |
| S 17 | 8 10 36 | 3°45'27 | 5°II51 | 16°40 | 26°14 | 17°40 | 24°53 | 23° 9 | 15°37 | 11°44 | 24°32 | 15°16 | 16° 5 | 13°12 | 29°31 |
| M18 | 8 14 33 | 4°46'16 | 18°48 | 16°11 | 27°26 | 18°18 | 24°56 | 23°16 | 15°35 | 11°46 | 24°31 | 15°17 | 16° 2 | 13°18 | 29°32 |
| T 19 | 8 18 30 | 5°47'03 | 2°L 0 | 15°32 | 28°39 | 18°56 | 24°58 | 23°23 | 15°33 | 11°48 | 24°29 | 15°18 | 15°59 | 13°25 | 29°33 |
| W20 | 8 22 26 | 6°47'49 | 15°26 | 14°45 | 29°52 | 19°35 | 25° 1 | 23°30 | 15°30 | 11°50 | 24°28 | 15°19 | 15°55 | 13°32 | 29°34 |
| T 21 | 8 26 23 | 7°48'35 | 29° 7 | 13°49 | 1°Z 5 | 20°13 | 25° 3 | 23°37 | 15°28 | 11°52 | 24°27 | 15°19 | 15°52 | 13°38 | 29°35 |
| F 22 | 8 30 19 | 8°49'19 | 13°II 4 | 12°47 | 2°17 | 20°52 | 25° 5 | 23°45 | 15°25 | 11°54 | 24°25 | 15°R19 | 15°49 | 13°45 | 29°36 |
| S 23 | 8 34 16 | 9°50'02 | 27°16 | 11°40 | 3°30 | 21°30 | 25° 8 | 23°52 | 15°23 | 11°56 | 24°24 | 15°19 | 15°46 | 13°52 | 29°38 |
| S 24 | 8 38 12 | 10°50'44 | 11°L40 | 10°30 | 4°43 | 22° 8 | 25° 9 | 23°59 | 15°21 | 11°58 | 24°23 | 15°19 | 15°43 | 13°59 | 29°39 |
| M25 | 8 42 9 | 11°51'26 | 26°14 | 9°20 | 5°56 | 22°47 | 25°11 | 24° 6 | 15°19 | 12° 0 | 24°21 | 15°18 | 15°40 | 14° 5 | 29°40 |
| T 26 | 8 46 5 | 12°52'05 | 10°Z52 | 8°10 | 7° 9 | 23°25 | 25°13 | 24°14 | 15°16 | 12° 2 | 24°20 | 15°18 | 15°36 | 14°12 | 29°42 |
| W27 | 8 50 2 | 13°52'44 | 25°29 | 7° 4 | 8°22 | 24° 4 | 25°14 | 24°21 | 15°14 | 12° 4 | 24°19 | 15°18 | 15°33 | 14°19 | 29°43 |
| T 28 | 8 53 59 | 14°53'21 | 9°K57 | 6° 2 | 9°35 | 24°42 | 25°15 | 24°28 | 15°12 | 12° 6 | 24°17 | 15°18 | 15°30 | 14°25 | 29°45 |
| F 29 | 8 57 55 | 15°53'57 | 24°12 | 5° 5 | 10°48 | 25°21 | 25°16 | 24°35 | 15°10 | 12° 8 | 24°16 | 15°18 | 15°27 | 14°32 | 29°46 |
| S 30 | 9 1 52 | 16°54'31 | 8°K 8 | 4°14 | 12° 1 | 26° 0 | 25°17 | 24°43 | 15° 8 | 12°10 | 24°15 | 15°18 | 15°24 | 14°39 | 29°48 |
| S 31 | 9 5 48 | 17°55'03 | 21°K43 | 3°K31 | 13°Z15 | 26°V38 | 25°L17 | 24°K50 | 15°L 6 | 12°K12 | 24°L14 | 15°L18 | 15°L20 | 14°II46 | 29°V50 |

Delta T = 12m19s Julian Calendar 1 Jan. 1199 == Greg. Calendar 8 Jan. 1199

FEBRUARY 1199 JC

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| M 1 | 9 9 45 | 18°55'33 | 4°V55 | 2°R54 | 14°Z28 | 27°V17 | 25°L17 | 24°K57 | 15°R 3 | 12°K14 | 24°R12 | 15°R17 | 15°L17 | 14°II52 | 29°V51 |
| T 2 | 9 13 41 | 19°56'01 | 17°44 | 2°K26 | 15°41 | 27°55 | 25°R18 | 25° 5 | 15°L 1 | 12°16 | 24°L11 | 15°L17 | 15°14 | 14°59 | 29°53 |
| W 3 | 9 17 38 | 20°56'28 | 0°Z14 | 2° 5 | 16°54 | 28°34 | 25°18 | 25°12 | 14°59 | 12°18 | 24°10 | 15°16 | 15°11 | 15° 6 | 29°55 |
| T 4 | 9 21 34 | 21°56'53 | 12°27 | 1°51 | 18° 7 | 29°12 | 25°17 | 25°19 | 14°58 | 12°21 | 24° 9 | 15°16 | 15° 8 | 15°12 | 29°57 |
| F 5 | 9 25 31 | 22°57'15 | 24°29 | 1°D45 | 19°20 | 29°51 | 25°17 | 25°27 | 14°56 | 12°23 | 24° 8 | 15°D16 | 15° 5 | 15°19 | 29°59 |
| S 6 | 9 29 28 | 23°57'36 | 6°II23 | 1°45 | 20°34 | 0°Z30 | 25°16 | 25°34 | 14°54 | 12°25 | 24° 7 | 15°16 | 15° 1 | 15°26 | 0°Z 1 |
| S 7 | 9 33 24 | 24°57'55 | 18°14 | 1°52 | 21°47 | 1° 8 | 25°16 | 25°41 | 14°52 | 12°27 | 24° 5 | 15°17 | 14°58 | 15°32 | 0° 3 |
| M 8 | 9 37 21 | 25°58'12 | 0°Z 7 | 2° 5 | 23° 0 | 1°47 | 25°15 | 25°49 | 14°50 | 12°29 | 24° 4 | 15°18 | 14°55 | 15°39 | 0° 5 |
| T 9 | 9 41 17 | 26°58'26 | 12° 6 | 2°24 | 24°13 | 2°25 | 25°13 | 25°56 | 14°48 | 12°31 | 24° 3 | 15°19 | 14°52 | 15°46 | 0° 7 |
| W10 | 9 45 14 | 27°58'39 | 24°14 | 2°48 | 25°27 | 3° 4 | 25°12 | 26° 3 | 14°47 | 12°34 | 24° 2 | 15°20 | 14°49 | 15°53 | 0°10 |
| T 11 | 9 49 10 | 28°58'50 | 6°L36 | 3°17 | 26°40 | 3°42 | 25°10 | 26°11 | 14°45 | 12°36 | 24° 1 | 15°21 | 14°46 | 15°59 | 0°12 |
| F 12 | 9 53 7 | 29°58'59 | 19°12 | 3°51 | 27°53 | 4°21 | 25° 9 | 26°18 | 14°43 | 12°38 | 24° 0 | 15°R21 | 14°42 | 16° 6 | 0°14 |
| S 13 | 9 57 3 | 0°K59'06 | 2°II 4 | 4°30 | 29° 7 | 5° 0 | 25° 7 | 26°25 | 14°42 | 12°40 | 23°59 | 15°20 | 14°39 | 16°13 | 0°16 |
| S 14 | 10 1 0 | 1°59'10 | 15°11 | 5°12 | 0°K20 | 5°38 | 25° 5 | 26°33 | 14°40 | 12°43 | 23°58 | 15°19 | 14°36 | 16°19 | 0°19 |
| M15 | 10 4 57 | 2°59'13 | 28°34 | 5°58 | 1°33 | 6°17 | 25° 2 | 26°40 | 14°39 | 12°45 | 23°57 | 15°16 | 14°33 | 16°26 | 0°21 |
| T 16 | 10 8 53 | 3°59'15 | 12°L11 | 6°48 | 2°47 | 6°55 | 25° 0 | 26°47 | 14°37 | 12°47 | 23°56 | 15°14 | 14°30 | 16°33 | 0°24 |
| W17 | 10 12 50 | 4°59'14 | 25°58 | 7°40 | 4° 0 | 7°34 | 24°57 | 26°55 | 14°36 | 12°49 | 23°55 | 15°11 | 14°26 | 16°39 | 0°26 |
| T 18 | 10 16 46 | 5°59'12 | 9°II55 | 8°36 | 5°14 | 8°12 | 24°55 | 27° 2 | 14°35 | 12°52 | 23°54 | 15° 9 | 14°23 | 16°46 | 0°29 |
| F 19 | 10 20 43 | 6°59'08 | 23°59 | 9°35 | 6°27 | 8°51 | 24°52 | 27° 9 | 14°33 | 12°54 | 23°53 | 15° 7 | 14°20 | 16°53 | 0°32 |
| S 20 | 10 24 39 | 7°59'03 | 8°L 8 | 10°36 | 7°40 | 9°30 | 24°48 | 27°17 | 14°32 | 12°56 | 23°52 | 15°D 7 | 14°17 | 17° 0 | 0°34 |
| S 21 | 10 28 36 | 8°58'56 | 22°20 | 11°40 | 8°54 | 10° 8 | 24°45 | 27°24 | 14°31 | 12°58 | 23°51 | 15° 7 | 14°14 | 17° 6 | 0°37 |
| M22 | 10 32 32 | 9°58'47 | 6°Z33 | 12°47 | 10° 7 | 10°47 | 24°41 | 27°31 | 14°30 | 13° 1 | 23°50 | 15° 8 | 14°11 | 17°13 | 0°40 |
| T 23 | 10 36 29 | 10°58'37 | 20°44 | 13°55 | 11°21 | 11°25 | 24°38 | 27°38 | 14°28 | 13° 3 | 23°49 | 15°10 | 14° 7 | 17°20 | 0°43 |
| W24 | 10 40 26 | 11°58'25 | 4°K51 | 15° 6 | 12°34 | 12° 4 | 24°34 | 27°46 | 14°27 | 13° 5 | 23°48 | 15°11 | 14° 4 | 17°26 | 0°46 |
| T 25 | 10 44 22 | 12°58'11 | 18°51 | 16°19 | 13°48 | 12°42 | 24°30 | 27°53 | 14°26 | 13° 7 | 23°47 | 15°R11 | 14° 1 | 17°33 | 0°48 |
| F 26 | 10 48 19 | 13°57'55 | 2°K42 | 17°33 | 15° 1 | 13°21 | 24°26 | 28° 0 | 14°25 | 13°10 | 23°47 | 15°10 | 13°58 | 17°40 | 0°51 |
| S 27 | 10 52 15 | 14°57'37 | 16°19 | 18°50 | 16°15 | 14° 0 | 24°21 | 28° 7 | 14°24 | 13°12 | 23°46 | 15° 8 | 13°55 | 17°46 | 0°54 |
| S 28 | 10 56 12 | 15°K57'17 | 29°K41 | 20°K 8 | 17°K28 | 14°Z38 | 24°L17 | 28°K14 | 14°L24 | 13°K14 | 23°L45 | 15°L 4 | 13°L51 | 17°II53 | 0°K57 |

Delta T = 12m18s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 1199

MARCH 1199 JC

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| M 1 | 11 0 8 | 16X56'54 | 12Y46 | 21X28 | 18X42 | 15B17 | 24R12 | 28X21 | 14R23 | 13K17 | 23R44 | 14R58 | 13L48 | 18II 0 | 1B 0 | |
| T 2 | 11 4 5 | 17°56'30 | 25°32 | 22°49 | 19°55 | 15°55 | 24Ω 7 | 28°29 | 14Ω22 | 13°19 | 23Ω44 | 14Ω53 | 13°45 | 18° 7 | 1° 4 | |
| W 3 | 11 8 1 | 18°56'03 | 8B 2 | 24°13 | 21° 9 | 16°34 | 24° 2 | 28°36 | 14°21 | 13°21 | 23°43 | 14°47 | 13°42 | 18°13 | 1° 7 | |
| T 4 | 11 11 58 | 19°55'34 | 20°16 | 25°37 | 22°22 | 17°12 | 23°57 | 28°43 | 14°21 | 13°23 | 23°42 | 14°42 | 13°39 | 18°20 | 1°10 | |
| F 5 | 11 15 54 | 20°55'03 | 2II19 | 27° 3 | 23°36 | 17°51 | 23°52 | 28°50 | 14°20 | 13°26 | 23°42 | 14°39 | 13°36 | 18°27 | 1°13 | |
| S 6 | 11 19 51 | 21°54'30 | 14°13 | 28°31 | 24°49 | 18°29 | 23°46 | 28°57 | 14°19 | 13°28 | 23°41 | 14°37 | 13°32 | 18°33 | 1°16 | |
| S 7 | 11 23 48 | 22°53'54 | 26° 4 | 0X 0 | 26° 3 | 19° 8 | 23°41 | 29° 4 | 14°19 | 13°30 | 23°40 | 14°D37 | 13°29 | 18°40 | 1°20 | |
| M 8 | 11 27 44 | 23°53'16 | 7Ω57 | 1°31 | 27°16 | 19°46 | 23°35 | 29°11 | 14°18 | 13°32 | 23°40 | 14°38 | 13°26 | 18°47 | 1°23 | |
| T 9 | 11 31 41 | 24°52'36 | 19°56 | 3° 3 | 28°30 | 20°25 | 23°29 | 29°17 | 14°18 | 13°35 | 23°39 | 14°39 | 13°23 | 18°53 | 1°26 | |
| W10 | 11 35 37 | 25°51'53 | 2Ω 7 | 4°36 | 29°43 | 21° 3 | 23°23 | 29°24 | 14°18 | 13°37 | 23°39 | 14°41 | 13°20 | 19° 0 | 1°30 | |
| T11 | 11 39 34 | 26°51'08 | 14°34 | 6°11 | 0X57 | 21°42 | 23°17 | 29°31 | 14°17 | 13°39 | 23°38 | 14°R42 | 13°17 | 19° 7 | 1°33 | |
| F12 | 11 43 30 | 27°50'20 | 27°20 | 7°48 | 2°11 | 22°20 | 23°11 | 29°38 | 14°17 | 13°41 | 23°38 | 14°41 | 13°13 | 19°14 | 1°36 | |
| S13 | 11 47 27 | 28°49'31 | 10II27 | 9°25 | 3°24 | 22°59 | 23° 5 | 29°45 | 14°17 | 13°44 | 23°37 | 14°38 | 13°10 | 19°20 | 1°40 | |
| S14 | 11 51 23 | 29°48'39 | 23°55 | 11° 5 | 4°38 | 23°37 | 22°58 | 29°51 | 14°17 | 13°46 | 23°37 | 14°33 | 13° 7 | 19°27 | 1°43 | |
| M15 | 11 55 20 | 0Y47'45 | 7Ω43 | 12°45 | 5°51 | 24°16 | 22°52 | 29°58 | 14°17 | 13°48 | 23°36 | 14°27 | 13° 4 | 19°34 | 1°47 | |
| T16 | 11 59 17 | 1°46'49 | 21°48 | 14°27 | 7° 5 | 24°54 | 22°45 | 0X 5 | 14°D17 | 13°50 | 23°36 | 14°19 | 13° 1 | 19°40 | 1°50 | |
| W17 | 12 3 13 | 2°45'51 | 6II 4 | 16°10 | 8°18 | 25°32 | 22°38 | 0°11 | 14°17 | 13°52 | 23°36 | 14°11 | 12°57 | 19°47 | 1°54 | |
| T18 | 12 7 10 | 3°44'51 | 20°27 | 17°55 | 9°32 | 26°11 | 22°31 | 0°18 | 14°17 | 13°54 | 23°35 | 14° 4 | 12°54 | 19°54 | 1°57 | |
| F19 | 12 11 6 | 4°43'49 | 4X50 | 19°42 | 10°45 | 26°49 | 22°25 | 0°24 | 14°17 | 13°57 | 23°35 | 13°59 | 12°51 | 20° 0 | 2° 1 | |
| S20 | 12 15 3 | 5°42'46 | 19° 9 | 21°29 | 11°59 | 27°28 | 22°18 | 0°31 | 14°17 | 13°59 | 23°35 | 13°56 | 12°48 | 20° 7 | 2° 5 | |
| S21 | 12 18 59 | 6°41'41 | 3Ω22 | 23°19 | 13°12 | 28° 6 | 22°10 | 0°37 | 14°17 | 14° 1 | 23°34 | 13°D54 | 12°45 | 20°14 | 2° 8 | |
| M22 | 12 22 56 | 7°40'34 | 17°26 | 25° 9 | 14°26 | 28°44 | 22° 3 | 0°44 | 14°18 | 14° 3 | 23°34 | 13°55 | 12°42 | 20°20 | 2°12 | |
| T23 | 12 26 52 | 8°39'25 | 1X20 | 27° 2 | 15°40 | 29°23 | 21°56 | 0°50 | 14°18 | 14° 5 | 23°34 | 13°56 | 12°38 | 20°27 | 2°16 | |
| W24 | 12 30 49 | 9°38'15 | 15° 5 | 28°55 | 16°53 | 0II 1 | 21°49 | 0°56 | 14°18 | 14° 7 | 23°34 | 13°R56 | 12°35 | 20°34 | 2°19 | |
| T25 | 12 34 46 | 10°37'03 | 28°39 | 0Y50 | 18° 7 | 0°39 | 21°41 | 1° 3 | 14°19 | 14° 9 | 23°34 | 13°55 | 12°32 | 20°41 | 2°23 | |
| F26 | 12 38 42 | 11°35'49 | 12X 4 | 2°47 | 19°20 | 1°18 | 21°34 | 1° 9 | 14°19 | 14°11 | 23°34 | 13°52 | 12°29 | 20°47 | 2°27 | |
| S27 | 12 42 39 | 12°34'33 | 25°17 | 4°45 | 20°34 | 1°56 | 21°26 | 1°15 | 14°20 | 14°14 | 23°33 | 13°46 | 12°26 | 20°54 | 2°31 | |
| S28 | 12 46 35 | 13°33'15 | 8Y19 | 6°45 | 21°47 | 2°34 | 21°19 | 1°21 | 14°21 | 14°16 | 23°33 | 13°38 | 12°22 | 21° 1 | 2°34 | |
| M29 | 12 50 32 | 14°31'55 | 21° 8 | 8°46 | 23° 1 | 3°13 | 21°11 | 1°27 | 14°21 | 14°18 | 23°33 | 13°27 | 12°19 | 21° 7 | 2°38 | |
| T30 | 12 54 28 | 15°30'33 | 3B44 | 10°48 | 24°14 | 3°51 | 21° 4 | 1°33 | 14°22 | 14°20 | 23°D33 | 13°16 | 12°16 | 21°14 | 2°42 | |
| W31 | 12 58 25 | 16Y29'09 | 16B 6 | 12Y51 | 25X28 | 4II29 | 20Ω56 | 1X39 | 14Ω23 | 14X22 | 23Ω33 | 13Ω 5 | 12Ω13 | 21II21 | 2B46 | |

Delta T = 12m18s Julian Calendar 1 March 1199 == Greg. Calendar 8 March 1199

APRIL 1199 JC

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|-----|----------|----------|--------|-------|-------|--------|-------|------|-------|-------|-------|--------|-------|--------|------|---|
| T 1 | 13 2 21 | 17Y27'43 | 28B16 | 14Y56 | 26X42 | 5II 7 | 20R49 | 1X45 | 14Ω24 | 14X24 | 23Ω33 | 12R54 | 12Ω10 | 21II27 | 2B50 | |
| F 2 | 13 6 18 | 18°26'15 | 10II16 | 17° 2 | 27°55 | 5°46 | 20Ω41 | 1°51 | 14°25 | 14°26 | 23°33 | 12Ω46 | 12° 7 | 21°34 | 2°54 | |
| S 3 | 13 10 15 | 19°24'45 | 22° 9 | 19° 9 | 29° 9 | 6°24 | 20°33 | 1°57 | 14°25 | 14°28 | 23°33 | 12°40 | 12° 3 | 21°41 | 2°58 | |
| S 4 | 13 14 11 | 20°23'13 | 3Ω59 | 21°16 | 0Y22 | 7° 2 | 20°26 | 2° 2 | 14°26 | 14°29 | 23°34 | 12°37 | 12° 0 | 21°47 | 3° 1 | |
| M 5 | 13 18 8 | 21°21'38 | 15°50 | 23°24 | 1°36 | 7°41 | 20°18 | 2° 8 | 14°27 | 14°31 | 23°34 | 12°35 | 11°57 | 21°54 | 3° 5 | |
| T 6 | 13 22 4 | 22°20'02 | 27°48 | 25°32 | 2°49 | 8°19 | 20°10 | 2°14 | 14°29 | 14°33 | 23°34 | 12°D35 | 11°54 | 22° 1 | 3° 9 | |
| W 7 | 13 26 1 | 23°18'23 | 9Ω58 | 27°41 | 4° 3 | 8°57 | 20° 3 | 2°19 | 14°30 | 14°35 | 23°34 | 12°R35 | 11°51 | 22° 8 | 3°13 | |
| T 8 | 13 29 57 | 24°16'42 | 22°25 | 29°49 | 5°16 | 9°35 | 19°55 | 2°25 | 14°31 | 14°37 | 23°34 | 12°35 | 11°48 | 22°14 | 3°17 | |
| F 9 | 13 33 54 | 25°14'59 | 5II14 | 1B57 | 6°30 | 10°13 | 19°47 | 2°30 | 14°32 | 14°39 | 23°35 | 12°33 | 11°44 | 22°21 | 3°21 | |
| S10 | 13 37 50 | 26°13'14 | 18°28 | 4° 4 | 7°43 | 10°52 | 19°40 | 2°36 | 14°33 | 14°41 | 23°35 | 12°29 | 11°41 | 22°28 | 3°25 | |
| S11 | 13 41 47 | 27°11'26 | 2Ω 8 | 6°10 | 8°57 | 11°30 | 19°32 | 2°41 | 14°35 | 14°42 | 23°35 | 12°22 | 11°38 | 22°34 | 3°29 | |
| M12 | 13 45 43 | 28° 9'37 | 16°14 | 8°14 | 10°10 | 12° 8 | 19°25 | 2°46 | 14°36 | 14°44 | 23°35 | 12°13 | 11°35 | 22°41 | 3°33 | |
| T13 | 13 49 40 | 29° 7'46 | 0II41 | 10°17 | 11°24 | 12°46 | 19°17 | 2°51 | 14°38 | 14°46 | 23°36 | 12° 2 | 11°32 | 22°48 | 3°37 | |
| W14 | 13 53 37 | 0B 5'54 | 15°23 | 12°18 | 12°37 | 13°24 | 19°10 | 2°56 | 14°39 | 14°48 | 23°36 | 11°51 | 11°28 | 22°54 | 3°41 | |
| T15 | 13 57 33 | 1° 4'00 | 0X12 | 14°17 | 13°51 | 14° 2 | 19° 2 | 3° 1 | 14°41 | 14°49 | 23°36 | 11°41 | 11°25 | 23° 1 | 3°45 | |
| F16 | 14 1 30 | 2° 2'04 | 15° 0 | 16°13 | 15° 4 | 14°40 | 18°55 | 3° 6 | 14°42 | 14°51 | 23°37 | 11°32 | 11°22 | 23° 8 | 3°49 | |
| S17 | 14 5 26 | 3° 0'07 | 29°38 | 18° 7 | 16°18 | 15°19 | 18°48 | 3°11 | 14°44 | 14°53 | 23°37 | 11°27 | 11°19 | 23°14 | 3°53 | |
| S18 | 14 9 23 | 3°58'08 | 14B 3 | 19°57 | 17°31 | 15°57 | 18°40 | 3°16 | 14°46 | 14°54 | 23°38 | 11°24 | 11°16 | 23°21 | 3°57 | |
| M19 | 14 13 19 | 4°56'08 | 28°11 | 21°45 | 18°45 | 16°35 | 18°33 | 3°21 | 14°47 | 14°56 | 23°38 | 11°23 | 11°13 | 23°28 | 4° 1 | |
| T20 | 14 17 16 | 5°54'07 | 12X 2 | 23°29 | 19°58 | 17°13 | 18°26 | 3°25 | 14°49 | 14°58 | 23°39 | 11°23 | 11° 9 | 23°35 | 4° 5 | |
| W21 | 14 21 12 | 6°52'04 | 25°35 | 25°10 | 21°12 | 17°51 | 18°19 | 3°30 | 14°51 | 14°59 | 23°39 | 11°22 | 11° 6 | 23°41 | 4° 9 | |
| T22 | 14 25 9 | 7°50'00 | 8X54 | 26°48 | 22°26 | 18°29 | 18°12 | 3°34 | 14°53 | 15° 1 | 23°40 | 11°20 | 11° 3 | 23°48 | 4°13 | |
| F23 | 14 29 6 | 8°47'54 | 21°59 | 28°22 | 23°39 | 19° 7 | 18° 6 | 3°39 | 14°55 | 15° 2 | 23°41 | 11°16 | 11° 0 | 23°55 | 4°17 | |
| S24 | 14 33 2 | 9°45'48 | 4Y52 | 29°53 | 24°53 | 19°45 | 17°59 | 3°43 | 14°57 | 15° 4 | 23°41 | 11° 9 | 10°57 | 24° 1 | 4°21 | |
| S25 | 14 36 59 | 10°43'39 | 17°34 | 1II20 | 26° 6 | 20°23 | 17°52 | 3°48 | 14°59 | 15° 5 | 23°42 | 10°59 | 10°54 | 24° 8 | 4°25 | |
| M26 | 14 40 55 | 11°41'30 | 0B 5 | 2°43 | 27°20 | 21° 1 | 17°46 | 3°52 | 15° 1 | 15° 7 | 23°43 | 10°46 | 10°50 | 24°15 | 4°28 | |
| T27 | 14 44 52 | 12°39'19 | 12°26 | 4° 2 | 28°33 | 21°39 | 17°39 | 3°56 | 15° 3 | 15° 8 | 23°43 | 10°33 | 10°47 | 24°21 | 4°32 | |
| W28 | 14 48 48 | 13°37'06 | 24°38 | 5°18 | 29°47 | 22°17 | 17°33 | 4° 0 | 15° 5 | 15°10 | 23°44 | 10°19 | 10°44 | 24°28 | 4°36 | |
| T29 | 14 52 45 | 14°34'53 | 6II41 | 6°29 | 1B 0 | 22°55 | 17°27 | 4° 4 | 15° 7 | 15°11 | 23°45 | 10° 7 | 10°41 | 24°35 | 4°40 | |
| F30 | 14 56 41 | 15B32'37 | 18II36 | 7II37 | 2B14 | 23II33 | 17Ω21 | 4X 8 | 15Ω 9 | 15X12 | 23Ω45 | 9Ω56 | 10Ω38 | 24II41 | 4B44 | |

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SWISS EPHEMERIS for the year 1199

MAY 1199 JC

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|--------|-------|-------|--------|------|-------|-------|-------|-------|-------|-------|------|
| S 1 | 15 0 38 | 16♁30'20 | 0♁26 | 8♁40 | 3♁27 | 24♁11 | 17°R15 | 4♁12 | 15♁12 | 15♁14 | 23♁46 | 9°R48 | 10♁34 | 24♁48 | 4♁48 |
| S 2 | 15 4 35 | 17°28'02 | 12°14 | 9°40 | 4°41 | 24°49 | 17♁ 9 | 4°15 | 15°14 | 15°15 | 23°47 | 9♁43 | 10°31 | 24°55 | 4°52 |
| M 3 | 15 8 31 | 18°25'42 | 24° 4 | 10°35 | 5°54 | 25°27 | 17° 3 | 4°19 | 15°16 | 15°16 | 23°48 | 9°40 | 10°28 | 25° 1 | 4°56 |
| T 4 | 15 12 28 | 19°23'21 | 6♁ 0 | 11°27 | 7° 8 | 26° 5 | 16°58 | 4°23 | 15°19 | 15°17 | 23°49 | 9°D40 | 10°25 | 25° 8 | 5° 0 |
| W 5 | 15 16 24 | 20°20'57 | 18° 8 | 12°14 | 8°21 | 26°43 | 16°52 | 4°26 | 15°21 | 15°19 | 23°50 | 9°R40 | 10°22 | 25°15 | 5° 4 |
| T 6 | 15 20 21 | 21°18'33 | 0♁33 | 12°56 | 9°35 | 27°21 | 16°47 | 4°29 | 15°23 | 15°20 | 23°51 | 9°39 | 10°19 | 25°21 | 5° 8 |
| F 7 | 15 24 17 | 22°16'07 | 13°20 | 13°34 | 10°48 | 27°59 | 16°42 | 4°33 | 15°26 | 15°21 | 23°51 | 9°38 | 10°15 | 25°28 | 5°12 |
| S 8 | 15 28 14 | 23°13'39 | 26°33 | 14° 8 | 12° 2 | 28°37 | 16°37 | 4°36 | 15°28 | 15°22 | 23°52 | 9°34 | 10°12 | 25°35 | 5°15 |
| S 9 | 15 32 10 | 24°11'10 | 10♁16 | 14°37 | 13°15 | 29°15 | 16°32 | 4°39 | 15°31 | 15°23 | 23°53 | 9°28 | 10° 9 | 25°42 | 5°19 |
| M10 | 15 36 7 | 25° 8'39 | 24°27 | 15° 2 | 14°29 | 29°53 | 16°27 | 4°42 | 15°34 | 15°24 | 23°54 | 9°20 | 10° 6 | 25°48 | 5°23 |
| T 11 | 15 40 4 | 26° 6'08 | 9♁ 4 | 15°22 | 15°42 | 0♁31 | 16°23 | 4°45 | 15°36 | 15°25 | 23°55 | 9°10 | 10° 3 | 25°55 | 5°27 |
| W12 | 15 44 0 | 27° 3'35 | 24° 1 | 15°37 | 16°56 | 1° 9 | 16°18 | 4°48 | 15°39 | 15°26 | 23°56 | 8°59 | 9°59 | 26° 2 | 5°31 |
| T 13 | 15 47 57 | 28° 1'01 | 9♁ 8 | 15°47 | 18° 9 | 1°47 | 16°14 | 4°51 | 15°42 | 15°27 | 23°57 | 8°50 | 9°56 | 26° 8 | 5°34 |
| F 14 | 15 51 53 | 28°58'26 | 24°16 | 15°53 | 19°23 | 2°25 | 16°10 | 4°53 | 15°44 | 15°28 | 23°59 | 8°42 | 9°53 | 26°15 | 5°38 |
| S 15 | 15 55 50 | 29°55'51 | 9♁15 | 15°R54 | 20°36 | 3° 2 | 16° 6 | 4°56 | 15°47 | 15°29 | 24° 0 | 8°37 | 9°50 | 26°22 | 5°42 |
| S 16 | 15 59 46 | 0♁53'14 | 23°56 | 15°51 | 21°50 | 3°40 | 16° 2 | 4°58 | 15°50 | 15°30 | 24° 1 | 8°34 | 9°47 | 26°28 | 5°46 |
| M17 | 16 3 43 | 1°50'37 | 8♁17 | 15°44 | 23° 3 | 4°18 | 15°59 | 5° 1 | 15°53 | 15°31 | 24° 2 | 8°D33 | 9°44 | 26°35 | 5°49 |
| T 18 | 16 7 39 | 2°47'59 | 22°14 | 15°32 | 24°17 | 4°56 | 15°55 | 5° 3 | 15°56 | 15°32 | 24° 3 | 8°34 | 9°40 | 26°42 | 5°53 |
| W19 | 16 11 36 | 3°45'21 | 5♁48 | 15°16 | 25°30 | 5°34 | 15°52 | 5° 5 | 15°59 | 15°33 | 24° 4 | 8°R34 | 9°37 | 26°48 | 5°57 |
| T 20 | 16 15 33 | 4°42'42 | 19° 2 | 14°56 | 26°44 | 6°12 | 15°49 | 5° 7 | 16° 2 | 15°33 | 24° 5 | 8°33 | 9°34 | 26°55 | 6° 0 |
| F 21 | 16 19 29 | 5°40'02 | 1♀58 | 14°33 | 27°58 | 6°50 | 15°46 | 5° 9 | 16° 5 | 15°34 | 24° 7 | 8°30 | 9°31 | 27° 2 | 6° 4 |
| S 22 | 16 23 26 | 6°37'22 | 14°38 | 14° 7 | 29°11 | 7°28 | 15°43 | 5°11 | 16° 8 | 15°35 | 24° 8 | 8°25 | 9°28 | 27° 8 | 6° 7 |
| S 23 | 16 27 22 | 7°34'41 | 27° 5 | 13°39 | 0♁25 | 8° 5 | 15°41 | 5°13 | 16°11 | 15°35 | 24° 9 | 8°17 | 9°25 | 27°15 | 6°11 |
| M24 | 16 31 19 | 8°32'00 | 9♁23 | 13° 8 | 1°38 | 8°43 | 15°39 | 5°15 | 16°14 | 15°36 | 24°10 | 8° 7 | 9°21 | 27°22 | 6°14 |
| T 25 | 16 35 15 | 9°29'18 | 21°31 | 12°36 | 2°52 | 9°21 | 15°36 | 5°16 | 16°17 | 15°37 | 24°12 | 7°57 | 9°18 | 27°28 | 6°18 |
| W26 | 16 39 12 | 10°26'36 | 3♁32 | 12° 3 | 4° 5 | 9°59 | 15°34 | 5°18 | 16°20 | 15°37 | 24°13 | 7°46 | 9°15 | 27°35 | 6°21 |
| T 27 | 16 43 8 | 11°23'53 | 15°27 | 11°29 | 5°19 | 10°37 | 15°32 | 5°19 | 16°23 | 15°38 | 24°14 | 7°36 | 9°12 | 27°42 | 6°25 |
| F 28 | 16 47 5 | 12°21'10 | 27°18 | 10°55 | 6°33 | 11°15 | 15°31 | 5°21 | 16°26 | 15°38 | 24°16 | 7°28 | 9° 9 | 27°48 | 6°28 |
| S 29 | 16 51 2 | 13°18'25 | 9♁ 6 | 10°22 | 7°46 | 11°53 | 15°29 | 5°22 | 16°29 | 15°39 | 24°17 | 7°22 | 9° 5 | 27°55 | 6°32 |
| S 30 | 16 54 58 | 14°15'41 | 20°54 | 9°50 | 9° 0 | 12°30 | 15°28 | 5°23 | 16°33 | 15°39 | 24°18 | 7°18 | 9° 2 | 28° 2 | 6°35 |
| M31 | 16 58 55 | 15♁12'55 | 2♁45 | 9♁20 | 10♁13 | 13♁ 8 | 15♁27 | 5♁24 | 16♁36 | 15♁40 | 24♁20 | 7°D16 | 8♁59 | 28♁ 9 | 6♁38 |

Delta T = 12m18s Julian Calendar 1 May 1199 == Greg. Calendar 8 May 1199

JUNE 1199 JC

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|------|-------|------|
| T 1 | 17 2 51 | 16♁10'09 | 14♁43 | 8°R52 | 11♁27 | 13♁46 | 15°R26 | 5♁25 | 16♁39 | 15♁40 | 24♁21 | 7♁16 | 8♁56 | 28♁15 | 6♁42 |
| W 2 | 17 6 48 | 17° 7'22 | 26°52 | 8♁27 | 12°41 | 14°24 | 15♁25 | 5°26 | 16°42 | 15°40 | 24°22 | 7°18 | 8°53 | 28°22 | 6°45 |
| T 3 | 17 10 44 | 18° 4'34 | 9♁16 | 8° 5 | 13°54 | 15° 2 | 15°24 | 5°27 | 16°46 | 15°41 | 24°24 | 7°19 | 8°50 | 28°29 | 6°48 |
| F 4 | 17 14 41 | 19° 1'46 | 22° 1 | 7°47 | 15° 8 | 15°40 | 15°24 | 5°27 | 16°49 | 15°41 | 24°25 | 7°R19 | 8°46 | 28°35 | 6°51 |
| S 5 | 17 18 37 | 19°58'57 | 5♁10 | 7°32 | 16°22 | 16°17 | 15°24 | 5°28 | 16°52 | 15°41 | 24°27 | 7°18 | 8°43 | 28°42 | 6°54 |
| S 6 | 17 22 34 | 20°56'08 | 18°47 | 7°22 | 17°35 | 16°55 | 15°D24 | 5°28 | 16°56 | 15°41 | 24°28 | 7°15 | 8°40 | 28°49 | 6°58 |
| M 7 | 17 26 31 | 21°53'18 | 2♁53 | 7°16 | 18°49 | 17°33 | 15°24 | 5°28 | 16°59 | 15°42 | 24°30 | 7°10 | 8°37 | 28°55 | 7° 1 |
| T 8 | 17 30 27 | 22°50'27 | 17°27 | 7°D15 | 20° 2 | 18°11 | 15°24 | 5°29 | 17° 3 | 15°42 | 24°31 | 7° 4 | 8°34 | 29° 2 | 7° 4 |
| W 9 | 17 34 24 | 23°47'36 | 2♁73 | 7°18 | 21°16 | 18°49 | 15°25 | 5°29 | 17° 6 | 15°42 | 24°33 | 6°58 | 8°31 | 29° 9 | 7° 7 |
| T 10 | 17 38 20 | 24°44'45 | 17°23 | 7°26 | 22°30 | 19°26 | 15°25 | 5°R29 | 17°10 | 15°42 | 24°34 | 6°52 | 8°27 | 29°15 | 7°10 |
| F 11 | 17 42 17 | 25°41'54 | 2♁50 | 7°39 | 23°43 | 20° 4 | 15°26 | 5°29 | 17°13 | 15°42 | 24°36 | 6°47 | 8°24 | 29°22 | 7°13 |
| S 12 | 17 46 13 | 26°39'03 | 18° 0 | 7°57 | 24°57 | 20°42 | 15°27 | 5°29 | 17°16 | 15°R42 | 24°37 | 6°44 | 8°21 | 29°29 | 7°16 |
| S 13 | 17 50 10 | 27°36'11 | 2♁56 | 8°20 | 26°11 | 21°20 | 15°28 | 5°28 | 17°20 | 15°42 | 24°39 | 6°D43 | 8°18 | 29°35 | 7°19 |
| M14 | 17 54 7 | 28°33'20 | 17°29 | 8°47 | 27°25 | 21°58 | 15°30 | 5°28 | 17°23 | 15°42 | 24°40 | 6°43 | 8°15 | 29°42 | 7°21 |
| T 15 | 17 58 3 | 29°30'29 | 1♁38 | 9°20 | 28°38 | 22°36 | 15°31 | 5°28 | 17°27 | 15°42 | 24°42 | 6°44 | 8°11 | 29°49 | 7°24 |
| W16 | 18 2 0 | 0♁27'38 | 15°20 | 9°57 | 29°52 | 23°13 | 15°33 | 5°27 | 17°31 | 15°42 | 24°44 | 6°46 | 8° 8 | 29°55 | 7°27 |
| T 17 | 18 5 56 | 1°24'47 | 28°37 | 10°39 | 1♁ 6 | 23°51 | 15°35 | 5°26 | 17°34 | 15°42 | 24°45 | 6°R47 | 8° 5 | 0♁ 2 | 7°30 |
| F 18 | 18 9 53 | 2°21'57 | 11♀32 | 11°26 | 2°19 | 24°29 | 15°37 | 5°26 | 17°38 | 15°41 | 24°47 | 6°46 | 8° 2 | 0° 9 | 7°32 |
| S 19 | 18 13 49 | 3°19'07 | 24° 8 | 12°18 | 3°33 | 25° 7 | 15°39 | 5°25 | 17°41 | 15°41 | 24°48 | 6°44 | 7°59 | 0°15 | 7°35 |
| S 20 | 18 17 46 | 4°16'18 | 6♁29 | 13°14 | 4°47 | 25°45 | 15°42 | 5°24 | 17°45 | 15°41 | 24°50 | 6°41 | 7°56 | 0°22 | 7°38 |
| M21 | 18 21 42 | 5°13'29 | 18°37 | 14°14 | 6° 1 | 26°23 | 15°44 | 5°23 | 17°48 | 15°41 | 24°52 | 6°37 | 7°52 | 0°29 | 7°40 |
| T 22 | 18 25 39 | 6°10'40 | 0♁37 | 15°20 | 7°15 | 27° 0 | 15°47 | 5°22 | 17°52 | 15°40 | 24°53 | 6°32 | 7°49 | 0°35 | 7°43 |
| W23 | 18 29 36 | 7° 7'52 | 12°31 | 16°29 | 8°28 | 27°38 | 15°50 | 5°20 | 17°56 | 15°40 | 24°55 | 6°27 | 7°46 | 0°42 | 7°45 |
| T 24 | 18 33 32 | 8° 5'05 | 24°21 | 17°43 | 9°42 | 28°16 | 15°53 | 5°19 | 17°59 | 15°40 | 24°57 | 6°22 | 7°43 | 0°49 | 7°47 |
| F 25 | 18 37 29 | 9° 2'17 | 6♁10 | 19° 1 | 10°56 | 28°54 | 15°57 | 5°18 | 18° 3 | 15°39 | 24°58 | 6°18 | 7°40 | 0°55 | 7°50 |
| S 26 | 18 41 25 | 9°59'30 | 17°59 | 20°24 | 12°10 | 29°32 | 16° 0 | 5°16 | 18° 7 | 15°39 | 25° 0 | 6°15 | 7°37 | 1° 2 | 7°52 |
| S 27 | 18 45 22 | 10°56'44 | 29°51 | 21°51 | 13°24 | 0♁10 | 16° 4 | 5°14 | 18°10 | 15°38 | 25° 2 | 6°14 | 7°33 | 1° 9 | 7°54 |
| M28 | 18 49 18 | 11°53'57 | 11♁48 | 23°21 | 14°38 | 0°47 | 16° 7 | 5°13 | 18°14 | 15°38 | 25° 3 | 6°D14 | 7°30 | 1°15 | 7°57 |
| T 29 | 18 53 15 | 12°51'11 | 23°53 | 24°56 | 15°51 | 1°25 | 16°11 | 5°11 | 18°18 | 15°37 | 25° 5 | 6°15 | 7°27 | 1°22 | 7°59 |
| W30 | 18 57 11 | 13♁48'25 | 6♁ 8 | 26♁34 | 17♁ 5 | 2♁ 3 | 16♁15 | 5♁ 9 | 18♁21 | 15♁37 | 25♁ 7 | 6♁16 | 7♁24 | 1♁29 | 8♁ 1 |

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SWISS EPHEMERIS for the year 1199

JULY 1199 JC

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| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|------|------|---|
| T 1 | 19 1 8 | 14☾45'40 | 18♐37 | 28♏16 | 18☾19 | 2♏41 | 16♁20 | 5°R 7 | 18☾25 | 15°R36 | 25☾ 8 | 6♏18 | 7♏21 | 1☾35 | 8♁ 3 | |
| F 2 | 19 5 5 | 15°42'54 | 1♁24 | 0☾ 2 | 19°33 | 3°19 | 16°24 | 5♁ 5 | 18°29 | 15♁36 | 25°10 | 6°19 | 7°17 | 1°42 | 8° 5 | |
| S 3 | 19 9 1 | 16°40'09 | 14°32 | 1°51 | 20°47 | 3°57 | 16°29 | 5° 3 | 18°32 | 15°35 | 25°12 | 6°R20 | 7°14 | 1°49 | 8° 7 | |
| S 4 | 19 12 58 | 17°37'25 | 28° 3 | 3°43 | 22° 1 | 4°35 | 16°33 | 5° 0 | 18°36 | 15°34 | 25°14 | 6°19 | 7°11 | 1°55 | 8° 9 | |
| M 5 | 19 16 54 | 18°34'40 | 12♐ 0 | 5°38 | 23°15 | 5°13 | 16°38 | 4°58 | 18°40 | 15°34 | 25°15 | 6°18 | 7° 8 | 2° 2 | 8°11 | |
| T 6 | 19 20 51 | 19°31'56 | 26°21 | 7°35 | 24°29 | 5°51 | 16°43 | 4°56 | 18°43 | 15°33 | 25°17 | 6°17 | 7° 5 | 2° 9 | 8°13 | |
| W 7 | 19 24 47 | 20°29'13 | 11♁ 4 | 9°34 | 25°43 | 6°28 | 16°49 | 4°53 | 18°47 | 15°32 | 25°19 | 6°15 | 7° 2 | 2°16 | 8°15 | |
| T 8 | 19 28 44 | 21°26'30 | 26° 4 | 11°36 | 26°57 | 7° 6 | 16°54 | 4°50 | 18°51 | 15°31 | 25°20 | 6°13 | 6°58 | 2°22 | 8°16 | |
| F 9 | 19 32 40 | 22°23'48 | 11☾12 | 13°38 | 28°10 | 7°44 | 16°59 | 4°48 | 18°54 | 15°31 | 25°22 | 6°12 | 6°55 | 2°29 | 8°18 | |
| S 10 | 19 36 37 | 23°21'06 | 26°19 | 15°43 | 29°24 | 8°22 | 17° 5 | 4°45 | 18°58 | 15°30 | 25°24 | 6°11 | 6°52 | 2°36 | 8°20 | |
| S 11 | 19 40 34 | 24°18'26 | 11♁17 | 17°48 | 0♏38 | 9° 0 | 17°11 | 4°42 | 19° 2 | 15°29 | 25°26 | 6°D11 | 6°49 | 2°42 | 8°21 | |
| M12 | 19 44 30 | 25°15'46 | 25°57 | 19°53 | 1°52 | 9°38 | 17°17 | 4°39 | 19° 5 | 15°28 | 25°27 | 6°11 | 6°46 | 2°49 | 8°23 | |
| T 13 | 19 48 27 | 26°13'07 | 10♁14 | 21°59 | 3° 6 | 10°16 | 17°23 | 4°36 | 19° 9 | 15°27 | 25°29 | 6°12 | 6°43 | 2°56 | 8°24 | |
| W14 | 19 52 23 | 27°10'29 | 24° 4 | 24° 5 | 4°20 | 10°54 | 17°29 | 4°33 | 19°13 | 15°26 | 25°31 | 6°13 | 6°39 | 3° 2 | 8°26 | |
| T 15 | 19 56 20 | 28° 7'52 | 7♁29 | 26°10 | 5°34 | 11°32 | 17°36 | 4°30 | 19°16 | 15°25 | 25°33 | 6°13 | 6°36 | 3° 9 | 8°27 | |
| F 16 | 20 0 16 | 29° 5'17 | 20°28 | 28°15 | 6°48 | 12°10 | 17°42 | 4°27 | 19°20 | 15°24 | 25°34 | 6°14 | 6°33 | 3°16 | 8°28 | |
| S 17 | 20 4 13 | 0♏ 2'43 | 3♁ 6 | 0♏20 | 8° 2 | 12°48 | 17°49 | 4°23 | 19°24 | 15°23 | 25°36 | 6°R14 | 6°30 | 3°22 | 8°29 | |
| S 18 | 20 8 9 | 1° 0'10 | 15°25 | 2°23 | 9°16 | 13°26 | 17°55 | 4°20 | 19°27 | 15°22 | 25°38 | 6°14 | 6°27 | 3°29 | 8°31 | |
| M19 | 20 12 6 | 1°57'39 | 27°31 | 4°26 | 10°30 | 14° 4 | 18° 2 | 4°16 | 19°31 | 15°21 | 25°39 | 6°13 | 6°23 | 3°36 | 8°32 | |
| T 20 | 20 16 3 | 2°55'09 | 9♏27 | 6°27 | 11°44 | 14°42 | 18° 9 | 4°13 | 19°34 | 15°20 | 25°41 | 6°13 | 6°20 | 3°42 | 8°33 | |
| W21 | 20 19 59 | 3°52'40 | 21°18 | 8°27 | 12°58 | 15°20 | 18°17 | 4° 9 | 19°38 | 15°19 | 25°43 | 6°13 | 6°17 | 3°49 | 8°34 | |
| T 22 | 20 23 56 | 4°50'12 | 3♁ 6 | 10°26 | 14°12 | 15°58 | 18°24 | 4° 6 | 19°42 | 15°18 | 25°45 | 6°12 | 6°14 | 3°56 | 8°35 | |
| F 23 | 20 27 52 | 5°47'46 | 14°56 | 12°24 | 15°27 | 16°36 | 18°31 | 4° 2 | 19°45 | 15°16 | 25°46 | 6°D12 | 6°11 | 4° 2 | 8°36 | |
| S 24 | 20 31 49 | 6°45'21 | 26°49 | 14°20 | 16°41 | 17°14 | 18°39 | 3°58 | 19°49 | 15°15 | 25°48 | 6°12 | 6° 8 | 4° 9 | 8°37 | |
| S 25 | 20 35 45 | 7°42'58 | 8♏49 | 16°14 | 17°55 | 17°52 | 18°47 | 3°54 | 19°52 | 15°14 | 25°50 | 6°R12 | 6° 4 | 4°16 | 8°37 | |
| M26 | 20 39 42 | 8°40'36 | 20°56 | 18° 8 | 19° 9 | 18°30 | 18°54 | 3°50 | 19°56 | 15°13 | 25°51 | 6°12 | 6° 1 | 4°22 | 8°38 | |
| T 27 | 20 43 38 | 9°38'14 | 3♐14 | 19°59 | 20°23 | 19° 8 | 19° 2 | 3°46 | 19°59 | 15°11 | 25°53 | 6°12 | 5°58 | 4°29 | 8°39 | |
| W28 | 20 47 35 | 10°35'54 | 15°43 | 21°50 | 21°37 | 19°46 | 19°10 | 3°42 | 20° 3 | 15°10 | 25°55 | 6°12 | 5°55 | 4°36 | 8°39 | |
| T 29 | 20 51 32 | 11°33'35 | 28°25 | 23°39 | 22°51 | 20°24 | 19°19 | 3°38 | 20° 6 | 15° 9 | 25°56 | 6°11 | 5°52 | 4°42 | 8°40 | |
| F 30 | 20 55 28 | 12°31'18 | 11♁22 | 25°26 | 24° 5 | 21° 3 | 19°27 | 3°34 | 20°10 | 15° 8 | 25°58 | 6°10 | 5°49 | 4°49 | 8°41 | |
| S 31 | 20 59 25 | 13♏29'01 | 24♁36 | 27♏12 | 25♏19 | 21♏41 | 19♁35 | 3♁30 | 20♁13 | 15♁ 6 | 26☾ 0 | 6♏10 | 5♏15 | 4☾56 | 8♁41 | |

Delta T = 12m17s Julian Calendar 1 July 1199 == Greg. Calendar 8 July 1199

AUGUST 1199 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|------|-------|---|
| S 1 | 21 3 21 | 14♏26'46 | 8♐ 7 | 28♏56 | 26♏33 | 22♏19 | 19♁44 | 3°R26 | 20☾17 | 15°R 5 | 26☾ 1 | 6♏ 9 | 5♏42 | 5☾ 2 | 8♁41 | |
| M 2 | 21 7 18 | 15°24'31 | 21°57 | 0♐40 | 27°48 | 22°57 | 19°53 | 3♁22 | 20°20 | 15♁ 3 | 26° 3 | 6° 9 | 5°39 | 5° 9 | 8°42 | |
| T 3 | 21 11 14 | 16°22'18 | 6♁ 5 | 2°21 | 29° 2 | 23°35 | 20° 1 | 3°17 | 20°24 | 15° 2 | 26° 5 | 6°10 | 5°36 | 5°16 | 8°42 | |
| W 4 | 21 15 11 | 17°20'06 | 20°30 | 4° 2 | 0♐16 | 24°13 | 20°10 | 3°13 | 20°27 | 15° 1 | 26° 6 | 6°10 | 5°33 | 5°22 | 8°42 | |
| T 5 | 21 19 7 | 18°17'56 | 5♁ 9 | 5°41 | 1°30 | 24°52 | 20°19 | 3° 9 | 20°30 | 14°59 | 26° 8 | 6°11 | 5°29 | 5°29 | 8°42 | |
| F 6 | 21 23 4 | 19°15'47 | 19°57 | 7°18 | 2°44 | 25°30 | 20°28 | 3° 4 | 20°34 | 14°58 | 26°10 | 6°12 | 5°26 | 5°36 | 8°42 | |
| S 7 | 21 27 1 | 20°13'39 | 4♁47 | 8°54 | 3°58 | 26° 8 | 20°38 | 3° 0 | 20°37 | 14°56 | 26°11 | 6°R13 | 5°23 | 5°42 | 8°R42 | |
| S 8 | 21 30 57 | 21°11'32 | 19°32 | 10°29 | 5°12 | 26°46 | 20°47 | 2°56 | 20°40 | 14°55 | 26°13 | 6°12 | 5°20 | 5°49 | 8°42 | |
| M 9 | 21 34 54 | 22° 9'27 | 4♁ 6 | 12° 3 | 6°26 | 27°24 | 20°56 | 2°51 | 20°44 | 14°53 | 26°14 | 6°11 | 5°17 | 5°56 | 8°42 | |
| T 10 | 21 38 50 | 23° 7'24 | 18°21 | 13°35 | 7°40 | 28° 3 | 21° 6 | 2°47 | 20°47 | 14°52 | 26°16 | 6° 9 | 5°14 | 6° 2 | 8°42 | |
| W11 | 21 42 47 | 24° 5'22 | 2♁14 | 15° 6 | 8°54 | 28°41 | 21°15 | 2°42 | 20°50 | 14°50 | 26°18 | 6° 7 | 5°10 | 6° 9 | 8°42 | |
| T 12 | 21 46 43 | 25° 3'22 | 15°43 | 16°35 | 10° 9 | 29°19 | 21°25 | 2°38 | 20°53 | 14°49 | 26°19 | 6° 4 | 5° 7 | 6°16 | 8°42 | |
| F 13 | 21 50 40 | 26° 1'25 | 28°46 | 18° 4 | 11°23 | 29°58 | 21°35 | 2°33 | 20°56 | 14°47 | 26°21 | 6° 2 | 5° 4 | 6°22 | 8°41 | |
| S 14 | 21 54 36 | 26°59'29 | 11♁27 | 19°30 | 12°37 | 0♐36 | 21°45 | 2°28 | 21° 0 | 14°46 | 26°22 | 6° 0 | 5° 1 | 6°29 | 8°41 | |
| S 15 | 21 58 33 | 27°57'35 | 23°49 | 20°56 | 13°51 | 1°14 | 21°55 | 2°24 | 21° 3 | 14°44 | 26°24 | 6°D 0 | 4°58 | 6°36 | 8°40 | |
| M16 | 22 2 30 | 28°55'43 | 5♏55 | 22°20 | 15° 5 | 1°53 | 22° 5 | 2°19 | 21° 6 | 14°43 | 26°25 | 6° 0 | 4°54 | 6°42 | 8°40 | |
| T 17 | 22 6 26 | 29°53'53 | 17°51 | 23°43 | 16°19 | 2°31 | 22°15 | 2°15 | 21° 9 | 14°41 | 26°27 | 6° 1 | 4°51 | 6°49 | 8°39 | |
| W18 | 22 10 23 | 0♐52'06 | 29°40 | 25° 4 | 17°33 | 3° 9 | 22°25 | 2°10 | 21°12 | 14°39 | 26°28 | 6° 2 | 4°48 | 6°55 | 8°39 | |
| T 19 | 22 14 19 | 1°50'20 | 11☾29 | 26°23 | 18°47 | 3°48 | 22°36 | 2° 5 | 21°15 | 14°38 | 26°30 | 6° 4 | 4°45 | 7° 2 | 8°38 | |
| F 20 | 22 18 16 | 2°48'36 | 23°21 | 27°42 | 20° 2 | 4°26 | 22°46 | 2° 1 | 21°18 | 14°36 | 26°31 | 6° 6 | 4°42 | 7° 9 | 8°37 | |
| S 21 | 22 22 12 | 3°46'55 | 5♏20 | 28°58 | 21°16 | 5° 5 | 22°57 | 1°56 | 21°21 | 14°35 | 26°33 | 6°R 6 | 4°39 | 7°15 | 8°36 | |
| S 22 | 22 26 9 | 4°45'15 | 17°29 | 0♏13 | 22°30 | 5°43 | 23° 7 | 1°52 | 21°24 | 14°33 | 26°34 | 6° 6 | 4°35 | 7°22 | 8°36 | |
| M23 | 22 30 5 | 5°43'37 | 29°50 | 1°26 | 23°44 | 6°22 | 23°18 | 1°47 | 21°27 | 14°31 | 26°35 | 6° 4 | 4°32 | 7°29 | 8°35 | |
| T 24 | 22 34 2 | 6°42'01 | 12♐25 | 2°38 | 24°58 | 7° 0 | 23°29 | 1°42 | 21°30 | 14°30 | 26°37 | 6° 0 | 4°29 | 7°35 | 8°34 | |
| W25 | 22 37 58 | 7°40'27 | 25°14 | 3°47 | 26°12 | 7°39 | 23°40 | 1°38 | 21°32 | 14°28 | 26°38 | 5°55 | 4°26 | 7°42 | 8°33 | |
| T 26 | 22 41 55 | 8°38'54 | 8♏17 | 4°55 | 27°26 | 8°17 | 23°51 | 1°33 | 21°35 | 14°26 | 26°39 | 5°50 | 4°23 | 7°49 | 8°32 | |
| F 27 | 22 45 52 | 9°37'24 | 21°34 | 6° 0 | 28°40 | 8°56 | 24° 2 | 1°29 | 21°38 | 14°25 | 26°41 | 5°45 | 4°20 | 7°55 | 8°30 | |
| S 28 | 22 49 48 | 10°35'55 | 5♐ 3 | 7° 3 | 29°55 | 9°34 | 24°13 | 1°24 | 21°41 | 14°23 | 26°42 | 5°40 | 4°16 | 8° 2 | 8°29 | |
| S 29 | 22 53 45 | 11°34'28 | 18°45 | 8° 4 | 1♁ 9 | 10°13 | 24°24 | 1°20 | 21°43 | 14°21 | 26°43 | 5°36 | 4°13 | 8° 9 | 8°28 | |
| M30 | 22 57 41 | 12°33'03 | 2♁37 | 9° 2 | 2°23 | 10°52 | 24°35 | 1°15 | 21°46 | 14°20 | 26°45 | 5°35 | 4°10 | 8°15 | 8°27 | |
| T 31 | 23 1 38 | 13♐31'39 | 16♁39 | 9♏58 | 3♏37 | 11♐30 | 24♁46 | 1♁11 | 21☾49 | 14♁18 | 26☾46 | 5°D34 | 4♏ 7 | 8☾22 | 8♁25 | |

Delta T = 12m17s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1199

SEPTEMBER 1199 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------|--------------------|--------------------|-----------------------|--------------------|---|---|---|---|---|---|---|---|
| W 1 | 23 5 34 | 14 ^h 30'17" | 0 ^h 35' | 10 ^h 50' | 4 ^h 51' | 12 ^h 9' | 24 ^h 58' | 1 ^h R 6 | 21 ^h 51' | 14 ^h R16 | 26 ^h 47' | 5 ^h Ω35 | 4 ^h Ω 4 | 8 ^h 29' | 8 ^h R24 | | | | | | | | |
| T 2 | 23 9 31 | 15 ^h 28'57" | 15° 8' | 11 ^h 40' | 6° 5' | 12 ^h 47' | 25° 9' | 1 ^h X 2 | 21 ^h 54' | 14 ^h X15 | 26 ^h 49' | 5 ^h Ω36 | 4° 0' | 8 ^h 35' | 8 ^h 22' | | | | | | | | |
| F 3 | 23 13 27 | 16 ^h 27'39" | 29°31' | 12 ^h 26' | 7°19' | 13 ^h 26' | 25°21' | 0 ^h 58' | 21 ^h 56' | 14°13' | 26 ^h 50' | 5 ^h R37 | 3 ^h 57' | 8 ^h 42' | 8°21' | | | | | | | | |
| S 4 | 23 17 24 | 17 ^h 26'22" | 13 ^h 35'55" | 13° 8' | 8 ^h 33' | 14° 5' | 25°32' | 0 ^h 53' | 21 ^h 59' | 14°11' | 26 ^h 51' | 5 ^h Ω37 | 3 ^h 54' | 8 ^h 49' | 8°19' | | | | | | | | |
| S 5 | 23 21 21 | 18 ^h 25'07" | 28°17' | 13 ^h 47' | 9°47' | 14 ^h 44' | 25°44' | 0 ^h 49' | 22° 1' | 14°10' | 26 ^h 52' | 5 ^h Ω35 | 3 ^h 51' | 8 ^h 55' | 8°18' | | | | | | | | |
| M 6 | 23 25 17 | 19 ^h 23'54" | 12 ^h 31' | 14 ^h 21' | 11° 1' | 15 ^h 22' | 25°56' | 0 ^h 45' | 22° 3' | 14° 8' | 26 ^h 53' | 5 ^h Ω31 | 3 ^h 48' | 9° 2' | 8°16' | | | | | | | | |
| T 7 | 23 29 14 | 20 ^h 22'42" | 26°32' | 14 ^h 50' | 12°15' | 16° 1' | 26° 8' | 0 ^h 40' | 22° 6' | 14° 7' | 26 ^h 54' | 5 ^h Ω25 | 3 ^h 45' | 9° 9' | 8°14' | | | | | | | | |
| W 8 | 23 33 10 | 21 ^h 21'33" | 10 ^h 17' | 15 ^h 15' | 13°29' | 16 ^h 40' | 26°19' | 0 ^h 36' | 22° 8' | 14° 5' | 26 ^h 56' | 5 ^h Ω18 | 3 ^h 41' | 9°15' | 8°12' | | | | | | | | |
| T 9 | 23 37 7 | 22 ^h 20'26" | 23°41' | 15 ^h 34' | 14°43' | 17 ^h 19' | 26°31' | 0 ^h 32' | 22°10' | 14° 3' | 26 ^h 57' | 5 ^h Ω10 | 3 ^h 38' | 9°22' | 8°11' | | | | | | | | |
| F 10 | 23 41 3 | 23 ^h 19'22" | 6 ^h 44' | 15 ^h 47' | 15°57' | 17 ^h 57' | 26°43' | 0 ^h 28' | 22°12' | 14° 2' | 26 ^h 58' | 5 ^h Ω 2 | 3 ^h 35' | 9°29' | 8° 9' | | | | | | | | |
| S 11 | 23 45 0 | 24 ^h 18'19" | 19°25' | 15 ^h 54' | 17°11' | 18°36' | 26°55' | 0 ^h 24' | 22°15' | 14° 0' | 26°59' | 4 ^h 55' | 3 ^h 32' | 9°35' | 8° 7' | | | | | | | | |
| S 12 | 23 48 56 | 25 ^h 17'19" | 1 ^h 11'47" | 15 ^h R55 | 18°25' | 19°15' | 27° 7' | 0 ^h 20' | 22°17' | 13°58' | 27° 0' | 4 ^h 51' | 3 ^h 29' | 9°42' | 8° 5' | | | | | | | | |
| M13 | 23 52 53 | 26 ^h 16'22" | 13°54' | 15 ^h 48' | 19°39' | 19°54' | 27°20' | 0 ^h 16' | 22°19' | 13°57' | 27° 1' | 4 ^h 48' | 3 ^h 26' | 9°49' | 8° 3' | | | | | | | | |
| T 14 | 23 56 50 | 27 ^h 15'26" | 25°50' | 15 ^h 34' | 20°53' | 20°33' | 27°32' | 0 ^h 12' | 22°21' | 13°55' | 27° 2' | 4 ^h D47 | 3 ^h 22' | 9°55' | 8° 1' | | | | | | | | |
| W15 | 0 0 46 | 28 ^h 14'33" | 7 ^h 34' | 15°12' | 22° 7' | 21°12' | 27°44' | 0° 9' | 22°23' | 13°54' | 27° 3' | 4 ^h 47' | 3 ^h 19' | 10° 2' | 7°59' | | | | | | | | |
| T 16 | 0 4 43 | 29 ^h 13'43" | 19°29' | 14°43' | 23°21' | 21°51' | 27°56' | 0° 5' | 22°25' | 13°52' | 27° 4' | 4 ^h 48' | 3 ^h 16' | 10° 9' | 7°56' | | | | | | | | |
| F 17 | 0 8 39 | 0 ^h 12'54" | 1 ^h Ω22 | 14° 5' | 24°35' | 22°30' | 28° 9' | 0° 1' | 22°27' | 13°50' | 27° 5' | 4 ^h R49 | 3 ^h 13' | 10°15' | 7°54' | | | | | | | | |
| S 18 | 0 12 36 | 1 ^h 12'08" | 13°25' | 13°20' | 25°49' | 23° 9' | 28°21' | 29 ^h 35'58" | 22°29' | 13°49' | 27° 6' | 4 ^h 49' | 3 ^h 10' | 10°22' | 7°52' | | | | | | | | |
| S 19 | 0 16 32 | 2 ^h 11'24" | 25°42' | 12°28' | 27° 3' | 23°48' | 28°33' | 29°54' | 22°30' | 13°47' | 27° 6' | 4 ^h 46' | 3° 6' | 10°29' | 7°50' | | | | | | | | |
| M20 | 0 20 29 | 3 ^h 10'43" | 8 ^h 15' | 11°29' | 28°17' | 24°27' | 28°46' | 29°51' | 22°32' | 13°46' | 27° 7' | 4 ^h 42' | 3° 3' | 10°35' | 7°47' | | | | | | | | |
| T 21 | 0 24 25 | 4 ^h 10'03" | 21° 7' | 10°25' | 29°31' | 25° 6' | 28°58' | 29°47' | 22°34' | 13°44' | 27° 8' | 4 ^h 35' | 3° 0' | 10°42' | 7°45' | | | | | | | | |
| W22 | 0 28 22 | 5 ^h 9'26" | 4 ^h 17' | 9°16' | 0 ^h M45 | 25°45' | 29°11' | 29°44' | 22°35' | 13°43' | 27° 9' | 4 ^h 25' | 2°57' | 10°49' | 7°43' | | | | | | | | |
| T 23 | 0 32 18 | 6 ^h 8'51" | 17°45' | 8° 5' | 1°59' | 26°24' | 29°24' | 29°41' | 22°37' | 13°41' | 27°10' | 4 ^h 15' | 2°54' | 10°55' | 7°40' | | | | | | | | |
| F 24 | 0 36 15 | 7 ^h 8'18" | 1 ^h M28 | 6°53' | 3°13' | 27° 3' | 29°36' | 29°37' | 22°39' | 13°40' | 27°11' | 4° 4' | 2°51' | 11° 2' | 7°38' | | | | | | | | |
| S 25 | 0 40 12 | 8 ^h 7'47" | 15°22' | 5°42' | 4°27' | 27°43' | 29°49' | 29°34' | 22°40' | 13°38' | 27°11' | 3°54' | 2°47' | 11° 8' | 7°35' | | | | | | | | |
| S 26 | 0 44 8 | 9 ^h 7'18" | 29°24' | 4°34' | 5°41' | 28°22' | 0 ^h M 2 | 29°31' | 22°42' | 13°37' | 27°12' | 3°47' | 2°44' | 11°15' | 7°33' | | | | | | | | |
| M27 | 0 48 5 | 10 ^h 6'50" | 13 ^h 30' | 3°32' | 6°55' | 29° 1' | 0°14' | 29°28' | 22°43' | 13°35' | 27°13' | 3°41' | 2°41' | 11°22' | 7°30' | | | | | | | | |
| T 28 | 0 52 1 | 11 ^h 6'25" | 27°38' | 2°36' | 8° 8' | 29°40' | 0°27' | 29°26' | 22°44' | 13°34' | 27°13' | 3°39' | 2°38' | 11°28' | 7°27' | | | | | | | | |
| W29 | 0 55 58 | 12 ^h 6'01" | 11 ^h 34'5" | 1°50' | 9°22' | 0 ^h 20' | 0°40' | 29°23' | 22°46' | 13°32' | 27°14' | 3 ^h D38 | 2°35' | 11°35' | 7°25' | | | | | | | | |
| T 30 | 0 59 54 | 13 ^h 5'39" | 25 ^h 35'1" | 1 ^h 13' | 10 ^h M36 | 0 ^h 59' | 0 ^h M53 | 29 ^h 20' | 22 ^h 47' | 13 ^h X31 | 27 ^h 15' | 3 ^h Ω38 | 2 ^h Ω31 | 11 ^h 34'2" | 7 ^h 22' | | | | | | | | |

Delta T = 12m17s Julian Calendar 1 Sept. 1199 == Greg. Calendar 8 Sept. 1199

OCTOBER 1199 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|-------------------------|-----------------------|--------------------|---------------------|---------------------|--------------------|-----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|-----------------------|----------------------|---|---|---|---|---|---|---|---|
| F 1 | 1 3 51 | 14 ^h 5 5'19" | 9 ^h 35'54" | 0 ^h R47 | 11 ^h M50 | 1 ^h 38' | 1 ^h M 6 | 29 ^h R17 | 22 ^h 48' | 13 ^h R30 | 27 ^h 15' | 3 ^h R38 | 2 ^h Ω28 | 11 ^h 34'8" | 7 ^h R19 | | | | | | | | |
| S 2 | 1 7 47 | 15 ^h 5'00" | 23°54' | 0 ^h 32' | 13° 4' | 2°18' | 1°19' | 29 ^h 15' | 22°49' | 13 ^h X28 | 27°16' | 3 ^h Ω37 | 2°25' | 11°55' | 7 ^h 17' | | | | | | | | |
| S 3 | 1 11 44 | 16 ^h 4'44" | 7 ^h X49 | 0 ^h D28 | 14°18' | 2°57' | 1°32' | 29°13' | 22°50' | 13°27' | 27°16' | 3°33' | 2°22' | 12° 2' | 7°14' | | | | | | | | |
| M 4 | 1 15 41 | 17 ^h 4'29" | 21°37' | 0°36' | 15°31' | 3°36' | 1°45' | 29°10' | 22°51' | 13°26' | 27°17' | 3°26' | 2°19' | 12° 8' | 7°11' | | | | | | | | |
| T 5 | 1 19 37 | 18 ^h 4'15" | 5 ^h Y16 | 0°54' | 16°45' | 4°16' | 1°58' | 29° 8' | 22°52' | 13°24' | 27°17' | 3°16' | 2°16' | 12°15' | 7° 8' | | | | | | | | |
| W 6 | 1 23 34 | 19 ^h 4'04" | 18°41' | 1°22' | 17°59' | 4°55' | 2°11' | 29° 6' | 22°53' | 13°23' | 27°18' | 3° 4' | 2°12' | 12°22' | 7° 5' | | | | | | | | |
| T 7 | 1 27 30 | 20 ^h 3'55" | 1 ^h 35'2" | 1°59' | 19°13' | 5°35' | 2°24' | 29° 4' | 22°54' | 13°22' | 27°18' | 2°52' | 2° 9' | 12°28' | 7° 2' | | | | | | | | |
| F 8 | 1 31 27 | 21 ^h 3'48" | 14°45' | 2°45' | 20°26' | 6°14' | 2°37' | 29° 2' | 22°55' | 13°20' | 27°19' | 2°39' | 2° 6' | 12°35' | 6°59' | | | | | | | | |
| S 9 | 1 35 23 | 22 ^h 3'43" | 27°20' | 3°39' | 21°40' | 6°54' | 2°50' | 29° 0' | 22°56' | 13°19' | 27°19' | 2°28' | 2° 3' | 12°42' | 6°57' | | | | | | | | |
| S 10 | 1 39 20 | 23 ^h 3'40" | 9 ^h 11'40" | 4°39' | 22°54' | 7°33' | 3° 3' | 28°58' | 22°57' | 13°18' | 27°19' | 2°18' | 2° 0' | 12°48' | 6°54' | | | | | | | | |
| M11 | 1 43 16 | 24 ^h 3'39" | 21°45' | 5°46' | 24° 7' | 8°13' | 3°16' | 28°57' | 22°57' | 13°17' | 27°20' | 2°12' | 1°57' | 12°55' | 6°51' | | | | | | | | |
| T 12 | 1 47 13 | 25 ^h 3'41" | 3 ^h 34' | 6°57' | 25°21' | 8°52' | 3°29' | 28°55' | 22°58' | 13°16' | 27°20' | 2° 8' | 1°53' | 13° 2' | 6°48' | | | | | | | | |
| W13 | 1 51 10 | 26 ^h 3'45" | 15°28' | 8°14' | 26°35' | 9°32' | 3°43' | 28°54' | 22°58' | 13°15' | 27°20' | 2° 6' | 1°50' | 13° 8' | 6°45' | | | | | | | | |
| T 14 | 1 55 6 | 27 ^h 3'50" | 27°16' | 9°34' | 27°48' | 10°12' | 3°56' | 28°52' | 22°59' | 13°13' | 27°20' | 2° 6' | 1°47' | 13°15' | 6°42' | | | | | | | | |
| F 15 | 1 59 3 | 28 ^h 3'58" | 9 ^h Ω 9 | 10°57' | 29° 2' | 10°51' | 4° 9' | 28°51' | 22°59' | 13°12' | 27°21' | 2° 6' | 1°44' | 13°22' | 6°39' | | | | | | | | |
| S 16 | 2 2 59 | 29 ^h 4'08" | 21°13' | 12°23' | 0 ^h X16 | 11°31' | 4°22' | 28°50' | 23° 0' | 13°11' | 27°21' | 2° 5' | 1°41' | 13°28' | 6°36' | | | | | | | | |
| S 17 | 2 6 56 | 0 ^h M 4'21" | 3 ^h 13'32" | 13°51' | 1°29' | 12°11' | 4°35' | 28°49' | 23° 0' | 13°10' | 27°21' | 2° 2' | 1°37' | 13°35' | 6°33' | | | | | | | | |
| M18 | 2 10 52 | 1 ^h 4'35" | 16°11' | 15°21' | 2°43' | 12°50' | 4°49' | 28°48' | 23° 0' | 13° 9' | 27°21' | 1°57' | 1°34' | 13°42' | 6°30' | | | | | | | | |
| T 19 | 2 14 49 | 2 ^h 4'51" | 29°13' | 16°53' | 3°56' | 13°30' | 5° 2' | 28°47' | 23° 1' | 13° 8' | 27°21' | 1°48' | 1°31' | 13°48' | 6°27' | | | | | | | | |
| W20 | 2 18 45 | 3 ^h 5'09" | 12 ^h 38' | 18°26' | 5°10' | 14°10' | 5°15' | 28°46' | 23° 1' | 13° 7' | 27°21' | 1°37' | 1°28' | 13°55' | 6°24' | | | | | | | | |
| T 21 | 2 22 42 | 4 ^h 5'29" | 26°27' | 19°59' | 6°23' | 14°50' | 5°28' | 28°45' | 23° 1' | 13° 7' | 27°21' | 1°25' | 1°25' | 14° 1' | 6°20' | | | | | | | | |
| F 22 | 2 26 39 | 5 ^h 5'51" | 10 ^h M35 | 21°34' | 7°37' | 15°30' | 5°42' | 28°45' | 23° 1' | 13° 6' | 27°21' | 1°12' | 1°22' | 14° 8' | 6°17' | | | | | | | | |
| S 23 | 2 30 35 | 6 ^h 6'15" | 24°57' | 23° 9' | 8°50' | 16°10' | 5°55' | 28°44' | 23 ^h R 1 | 13° 5' | 27 ^h R21 | 1° 1' | 1°18' | 14°15' | 6°14' | | | | | | | | |
| S 24 | 2 34 32 | 7 ^h 6'40" | 9 ^h X26 | 24°45' | 10° 4' | 16°50' | 6° 8' | 28°44' | 23° 1' | 13° 4' | 27°21' | 0°51' | 1°15' | 14°21' | 6°11' | | | | | | | | |
| M25 | 2 38 28 | 8 ^h 7'07" | 23°56' | 26°21' | 11°17' | 17°30' | 6°21' | 28°44' | 23° 1' | 13° 3' | 27°21' | 0°44' | 1°12' | 14°28' | 6° 8' | | | | | | | | |
| T 26 | 2 42 25 | 9 ^h 7'35" | 8 ^h 32' | 27°57' | 12°31' | 18°10' | 6°35' | 28°44' | 23° 1' | 13° 2' | 27°21' | 0°41' | 1° 9' | 14°35' | 6° 5' | | | | | | | | |
| W27 | 2 46 21 | 10 ^h 8'05" | 22°39' | 29°33' | 13°44' | 18°50' | 6°48' | 28 ^h D44 | 23° 1' | 13° 2' | 27°21' | 0°39' | 1° 6' | 14°41' | 6° 2' | | | | | | | | |
| T 28 | 2 50 18 | 11 ^h 8'36" | 6 ^h 34'6" | 1 ^h M 9 | 14°58' | 19°30' | 7° 1' | 28°44' | 23° 0' | 13° 1' | 27°21' | 0°39' | 1° 3' | 14°48' | 5°59' | | | | | | | | |
| F 29 | 2 54 14 | 12 ^h 9'08" | 20°43' | 2°46' | 16°11' | 20°10' | 7°14' | 28°44' | 23° 0' | 13° 0' | 27°21' | 0°39' | 0°59' | 14°55' | 5°56' | | | | | | | | |
| S 30 | 2 58 11 | 13 ^h 9'41" | 4 ^h X28 | 4°22' | 17°24' | 20°50' | 7°28' | 28°44' | 23° 0' | 13° 0' | 27°21' | 0°37' | 0°56' | 15° 1' | 5°53' | | | | | | | | |
| S 31 | 3 2 8 | 14 ^h M10'16" | 18 ^h X 3 | 5 ^h M58 | 18 ^h X38 | 21 ^h 30' | 7 ^h M41 | 28 ^h 34'5" | 22 ^h 59' | 12 ^h X59 | 27 ^h 20' | 0 ^h Ω34 | 0 ^h Ω53 | 15 ^h 34'8" | 5 ^h 35'0" | | | | | | | | |

Delta T = 12m17s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 1199

NOVEMBER 1199 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|---------|------------------------|----------------------|---------------------|---------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|---|---|---|---|---|---|---|
| M 1 | 3 6 4 | 15 ^m 10'52 | 1 ^Y 27 | 7 ^m 34 | 19 ^z 51 | 22 ^z 10 | 7 ^m 54 | 28 ^z 45 | 22 ^z R59 | 12 ^z R59 | 27 ^z R20 | 0 ^z R27 | 0 ^z L50 | 15 ^z 15 | 5 ^z R47 | | | | | | | |
| T 2 | 3 10 1 | 16 ^m 11'29 | 14 ^z 41 | 9 ^z 10 | 21 ^z 4 | 22 ^z 50 | 8 ^z 7 | 28 ^z 46 | 22 ^z 58 | 12 ^z H58 | 27 ^z 20 | 0 ^z L17 | 0 ^z 47 | 15 ^z 21 | 5 ^z B44 | | | | | | | |
| W 3 | 3 13 57 | 17 ^m 12'08 | 27 ^z 43 | 10 ^z 45 | 22 ^z 17 | 23 ^z 30 | 8 ^z 20 | 28 ^z 47 | 22 ^z 58 | 12 ^z 57 | 27 ^z 20 | 0 ^z 5 | 0 ^z 43 | 15 ^z 28 | 5 ^z 41 | | | | | | | |
| T 4 | 3 17 54 | 18 ^m 12'48 | 10 ^z B33 | 12 ^z 21 | 23 ^z 30 | 24 ^z 11 | 8 ^z 34 | 28 ^z 48 | 22 ^z 57 | 12 ^z 57 | 27 ^z 19 | 29 ^z 52 | 0 ^z 40 | 15 ^z 35 | 5 ^z 38 | | | | | | | |
| F 5 | 3 21 50 | 19 ^m 13'29 | 23 ^z 10 | 13 ^z 56 | 24 ^z 44 | 24 ^z 51 | 8 ^z 47 | 28 ^z 49 | 22 ^z 56 | 12 ^z 57 | 27 ^z 19 | 29 ^z 39 | 0 ^z 37 | 15 ^z 41 | 5 ^z 35 | | | | | | | |
| S 6 | 3 25 47 | 20 ^m 14'12 | 5 ^z II34 | 15 ^z 32 | 25 ^z 57 | 25 ^z 31 | 9 ^z 0 | 28 ^z 50 | 22 ^z 56 | 12 ^z 56 | 27 ^z 19 | 29 ^z 28 | 0 ^z 34 | 15 ^z 48 | 5 ^z 32 | | | | | | | |
| S 7 | 3 29 43 | 21 ^m 14'56 | 17 ^z 46 | 17 ^z 7 | 27 ^z 10 | 26 ^z 11 | 9 ^z 13 | 28 ^z 51 | 22 ^z 55 | 12 ^z 56 | 27 ^z 18 | 29 ^z 18 | 0 ^z 31 | 15 ^z 55 | 5 ^z 29 | | | | | | | |
| M 8 | 3 33 40 | 22 ^m 15'42 | 29 ^z 47 | 18 ^z 42 | 28 ^z 23 | 26 ^z 52 | 9 ^z 26 | 28 ^z 52 | 22 ^z 54 | 12 ^z 55 | 27 ^z 18 | 29 ^z 11 | 0 ^z 28 | 16 ^z 1 | 5 ^z 26 | | | | | | | |
| T 9 | 3 37 37 | 23 ^m 16'29 | 11 ^z B39 | 20 ^z 16 | 29 ^z 36 | 27 ^z 32 | 9 ^z 39 | 28 ^z 53 | 22 ^z 53 | 12 ^z 55 | 27 ^z 17 | 29 ^z 7 | 0 ^z 24 | 16 ^z 8 | 5 ^z 23 | | | | | | | |
| W10 | 3 41 33 | 24 ^m 17'18 | 23 ^z 26 | 21 ^z 51 | 0 ^z Z49 | 28 ^z 12 | 9 ^z 52 | 28 ^z 55 | 22 ^z 52 | 12 ^z 55 | 27 ^z 17 | 29 ^z 5 | 0 ^z 21 | 16 ^z 14 | 5 ^z 20 | | | | | | | |
| T11 | 3 45 30 | 25 ^m 18'08 | 5 ^z L13 | 23 ^z 26 | 2 ^z 2 | 28 ^z 53 | 10 ^z 5 | 28 ^z 56 | 22 ^z 51 | 12 ^z 55 | 27 ^z 16 | 29 ^z D 5 | 0 ^z 18 | 16 ^z 21 | 5 ^z 18 | | | | | | | |
| F12 | 3 49 26 | 26 ^m 18'59 | 17 ^z 4 | 25 ^z 0 | 3 ^z 15 | 29 ^z 33 | 10 ^z 19 | 28 ^z 58 | 22 ^z 50 | 12 ^z 54 | 27 ^z 16 | 29 ^z 6 | 0 ^z 15 | 16 ^z 28 | 5 ^z 15 | | | | | | | |
| S13 | 3 53 23 | 27 ^m 19'52 | 29 ^z 5 | 26 ^z 35 | 4 ^z 27 | 0 ^z II14 | 10 ^z 32 | 29 ^z 0 | 22 ^z 49 | 12 ^z 54 | 27 ^z 15 | 29 ^z R 6 | 0 ^z 12 | 16 ^z 34 | 5 ^z 12 | | | | | | | |
| S14 | 3 57 19 | 28 ^m 20'47 | 11 ^z II22 | 28 ^z 9 | 5 ^z 40 | 0 ^z 54 | 10 ^z 45 | 29 ^z 2 | 22 ^z 48 | 12 ^z 54 | 27 ^z 15 | 29 ^z 5 | 0 ^z 8 | 16 ^z 41 | 5 ^z 9 | | | | | | | |
| M15 | 4 1 16 | 29 ^m 21'42 | 23 ^z 59 | 29 ^z 43 | 6 ^z 53 | 1 ^z 35 | 10 ^z 57 | 29 ^z 4 | 22 ^z 47 | 12 ^z 54 | 27 ^z 14 | 29 ^z 2 | 0 ^z 5 | 16 ^z 48 | 5 ^z 6 | | | | | | | |
| T16 | 4 5 12 | 0 ^z A22'40 | 7 ^z L 1 | 1 ^z A17 | 8 ^z 6 | 2 ^z 15 | 11 ^z 10 | 29 ^z 6 | 22 ^z 45 | 12 ^z 54 | 27 ^z 14 | 28 ^z 57 | 0 ^z 2 | 16 ^z 54 | 5 ^z 4 | | | | | | | |
| W17 | 4 9 9 | 1 ^z 23'38 | 20 ^z 30 | 2 ^z 52 | 9 ^z 18 | 2 ^z 56 | 11 ^z 23 | 29 ^z 8 | 22 ^z 44 | 12 ^z 54 | 27 ^z 13 | 28 ^z 50 | 29 ^z 59 | 17 ^z 1 | 5 ^z 1 | | | | | | | |
| T18 | 4 13 6 | 2 ^z 24'37 | 4 ^z II27 | 4 ^z 26 | 10 ^z 31 | 3 ^z 37 | 11 ^z 36 | 29 ^z 10 | 22 ^z 43 | 12 ^z D54 | 27 ^z 12 | 28 ^z 40 | 29 ^z 56 | 17 ^z 8 | 4 ^z 58 | | | | | | | |
| F19 | 4 17 2 | 3 ^z 25'38 | 18 ^z 49 | 6 ^z 0 | 11 ^z 44 | 4 ^z 17 | 11 ^z 49 | 29 ^z 13 | 22 ^z 41 | 12 ^z 54 | 27 ^z 11 | 28 ^z 31 | 29 ^z 53 | 17 ^z 14 | 4 ^z 56 | | | | | | | |
| S20 | 4 20 59 | 4 ^z 26'40 | 3 ^z A31 | 7 ^z 34 | 12 ^z 56 | 4 ^z 58 | 12 ^z 2 | 29 ^z 15 | 22 ^z 40 | 12 ^z 54 | 27 ^z 11 | 28 ^z 22 | 29 ^z 49 | 17 ^z 21 | 4 ^z 53 | | | | | | | |
| S21 | 4 24 55 | 5 ^z 27'43 | 18 ^z 24 | 9 ^z 9 | 14 ^z 9 | 5 ^z 39 | 12 ^z 15 | 29 ^z 18 | 22 ^z 38 | 12 ^z 54 | 27 ^z 10 | 28 ^z 15 | 29 ^z 46 | 17 ^z 28 | 4 ^z 51 | | | | | | | |
| M22 | 4 28 52 | 6 ^z 28'47 | 3 ^z B20 | 10 ^z 43 | 15 ^z 21 | 6 ^z 19 | 12 ^z 27 | 29 ^z 21 | 22 ^z 37 | 12 ^z 54 | 27 ^z 9 | 28 ^z 10 | 29 ^z 43 | 17 ^z 34 | 4 ^z 48 | | | | | | | |
| T23 | 4 32 48 | 7 ^z 29'51 | 18 ^z 11 | 12 ^z 17 | 16 ^z 33 | 7 ^z 0 | 12 ^z 40 | 29 ^z 23 | 22 ^z 35 | 12 ^z 54 | 27 ^z 8 | 28 ^z 8 | 29 ^z 40 | 17 ^z 41 | 4 ^z 46 | | | | | | | |
| W24 | 4 36 45 | 8 ^z 30'56 | 2 ^z A49 | 13 ^z 52 | 17 ^z 46 | 7 ^z 41 | 12 ^z 53 | 29 ^z 26 | 22 ^z 34 | 12 ^z 54 | 27 ^z 8 | 28 ^z D 7 | 29 ^z 37 | 17 ^z 48 | 4 ^z 43 | | | | | | | |
| T25 | 4 40 41 | 9 ^z 32'01 | 17 ^z 11 | 15 ^z 27 | 18 ^z 58 | 8 ^z 22 | 13 ^z 5 | 29 ^z 29 | 22 ^z 32 | 12 ^z 55 | 27 ^z 7 | 28 ^z 8 | 29 ^z 34 | 17 ^z 54 | 4 ^z 41 | | | | | | | |
| F26 | 4 44 38 | 10 ^z 33'07 | 1 ^z X15 | 17 ^z 1 | 20 ^z 10 | 9 ^z 3 | 13 ^z 18 | 29 ^z 32 | 22 ^z 30 | 12 ^z 55 | 27 ^z 6 | 28 ^z 9 | 29 ^z 30 | 18 ^z 1 | 4 ^z 39 | | | | | | | |
| S27 | 4 48 35 | 11 ^z 34'13 | 14 ^z 59 | 18 ^z 36 | 21 ^z 22 | 9 ^z 44 | 13 ^z 30 | 29 ^z 36 | 22 ^z 28 | 12 ^z 55 | 27 ^z 5 | 28 ^z R10 | 29 ^z 27 | 18 ^z 8 | 4 ^z 36 | | | | | | | |
| S28 | 4 52 31 | 12 ^z 35'20 | 28 ^z 26 | 20 ^z 11 | 22 ^z 35 | 10 ^z 24 | 13 ^z 43 | 29 ^z 39 | 22 ^z 27 | 12 ^z 56 | 27 ^z 4 | 28 ^z 8 | 29 ^z 24 | 18 ^z 14 | 4 ^z 34 | | | | | | | |
| M29 | 4 56 28 | 13 ^z 36'26 | 11 ^z Y36 | 21 ^z 46 | 23 ^z 47 | 11 ^z 5 | 13 ^z 55 | 29 ^z 42 | 22 ^z 25 | 12 ^z 56 | 27 ^z 3 | 28 ^z 5 | 29 ^z 21 | 18 ^z 21 | 4 ^z 32 | | | | | | | |
| T30 | 5 0 24 | 14 ^z A37'33 | 24 ^z Y32 | 23 ^z A21 | 24 ^z B58 | 11 ^z II46 | 14 ^z II 7 | 29 ^z A46 | 22 ^z 23 | 12 ^z H56 | 27 ^z B 2 | 27 ^z 59 | 29 ^z 18 | 18 ^z B27 | 4 ^z B30 | | | | | | | |

Delta T = 12m16s Julian Calendar 1 Nov. 1199 == Greg. Calendar 8 Nov. 1199

DECEMBER 1199 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|---------|------------------------|----------------------|---------------------|---------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---|---|---|---|---|---|---|
| W 1 | 5 4 21 | 15 ^m A38'41 | 7 ^z B14 | 24 ^z A56 | 26 ^z B10 | 12 ^z II27 | 14 ^z II20 | 29 ^z A49 | 22 ^z R21 | 12 ^z H57 | 27 ^z R 1 | 27 ^z R52 | 29 ^z B14 | 18 ^z B34 | 4 ^z R27 | | | | | | | |
| T 2 | 5 8 17 | 16 ^m 39'49 | 19 ^z 45 | 26 ^z 31 | 27 ^z 22 | 13 ^z 8 | 14 ^z 32 | 29 ^z 53 | 22 ^z B19 | 12 ^z 57 | 27 ^z B 0 | 27 ^z B45 | 29 ^z 11 | 18 ^z 41 | 4 ^z B25 | | | | | | | |
| F 3 | 5 12 14 | 17 ^m 40'57 | 2 ^z II 5 | 28 ^z 6 | 28 ^z 34 | 13 ^z 49 | 14 ^z 44 | 29 ^z 57 | 22 ^z 17 | 12 ^z 58 | 26 ^z 59 | 27 ^z 37 | 29 ^z 8 | 18 ^z 47 | 4 ^z 23 | | | | | | | |
| S 4 | 5 16 10 | 18 ^m 42'05 | 14 ^z 15 | 29 ^z 41 | 29 ^z 45 | 14 ^z 31 | 14 ^z 56 | 0 ^z X 0 | 22 ^z 15 | 12 ^z 58 | 26 ^z 58 | 27 ^z 30 | 29 ^z 5 | 18 ^z 54 | 4 ^z 21 | | | | | | | |
| S 5 | 5 20 7 | 19 ^m 43'14 | 26 ^z 16 | 1 ^z B16 | 0 ^z A57 | 15 ^z 12 | 15 ^z 8 | 0 ^z 4 | 22 ^z 13 | 12 ^z 59 | 26 ^z 57 | 27 ^z 24 | 29 ^z 2 | 19 ^z 1 | 4 ^z 19 | | | | | | | |
| M 6 | 5 24 4 | 20 ^m 44'24 | 8 ^z B11 | 2 ^z 51 | 2 ^z 8 | 15 ^z 53 | 15 ^z 20 | 0 ^z 8 | 22 ^z 11 | 13 ^z 0 | 26 ^z 56 | 27 ^z 20 | 28 ^z 59 | 19 ^z 7 | 4 ^z 18 | | | | | | | |
| T 7 | 5 28 0 | 21 ^m 45'34 | 20 ^z 0 | 4 ^z 26 | 3 ^z 20 | 16 ^z 34 | 15 ^z 32 | 0 ^z 12 | 22 ^z 9 | 13 ^z 0 | 26 ^z 55 | 27 ^z 18 | 28 ^z 55 | 19 ^z 14 | 4 ^z 16 | | | | | | | |
| W 8 | 5 31 57 | 22 ^m 46'44 | 1 ^z L46 | 6 ^z 1 | 4 ^z 31 | 17 ^z 15 | 15 ^z 44 | 0 ^z 17 | 22 ^z 7 | 13 ^z 1 | 26 ^z 54 | 27 ^z D18 | 28 ^z 52 | 19 ^z 21 | 4 ^z 14 | | | | | | | |
| T 9 | 5 35 53 | 23 ^m 47'54 | 13 ^z 33 | 7 ^z 35 | 5 ^z 42 | 17 ^z 56 | 15 ^z 56 | 0 ^z 21 | 22 ^z 4 | 13 ^z 2 | 26 ^z 53 | 27 ^z 19 | 28 ^z 49 | 19 ^z 27 | 4 ^z 12 | | | | | | | |
| F10 | 5 39 50 | 24 ^m 49'05 | 25 ^z 25 | 9 ^z 9 | 6 ^z 53 | 18 ^z 38 | 16 ^z 8 | 0 ^z 25 | 22 ^z 2 | 13 ^z 2 | 26 ^z 52 | 27 ^z 21 | 28 ^z 46 | 19 ^z 34 | 4 ^z 11 | | | | | | | |
| S11 | 5 43 46 | 25 ^m 50'16 | 7 ^z II26 | 10 ^z 43 | 8 ^z 4 | 19 ^z 19 | 16 ^z 20 | 0 ^z 30 | 22 ^z 0 | 13 ^z 3 | 26 ^z 51 | 27 ^z 23 | 28 ^z 43 | 19 ^z 41 | 4 ^z 9 | | | | | | | |
| S12 | 5 47 43 | 26 ^m 51'28 | 19 ^z 40 | 12 ^z 16 | 9 ^z 15 | 20 ^z 0 | 16 ^z 31 | 0 ^z 34 | 21 ^z 58 | 13 ^z 4 | 26 ^z 50 | 27 ^z 24 | 28 ^z 40 | 19 ^z 47 | 4 ^z 7 | | | | | | | |
| M13 | 5 51 39 | 27 ^m 52'40 | 2 ^z A12 | 13 ^z 47 | 10 ^z 26 | 20 ^z 42 | 16 ^z 43 | 0 ^z 39 | 21 ^z 55 | 13 ^z 5 | 26 ^z 49 | 27 ^z R24 | 28 ^z 36 | 19 ^z 54 | 4 ^z 6 | | | | | | | |
| T14 | 5 55 36 | 28 ^m 53'52 | 15 ^z 8 | 15 ^z 18 | 11 ^z 36 | 21 ^z 23 | 16 ^z 54 | 0 ^z 43 | 21 ^z 53 | 13 ^z 6 | 26 ^z 47 | 27 ^z 23 | 28 ^z 33 | 20 ^z 1 | 4 ^z 4 | | | | | | | |
| W15 | 5 59 33 | 29 ^m 55'05 | 28 ^z 31 | 16 ^z 48 | 12 ^z 47 | 22 ^z 4 | 17 ^z 6 | 0 ^z 48 | 21 ^z 51 | 13 ^z 7 | 26 ^z 46 | 27 ^z 20 | 28 ^z 30 | 20 ^z 7 | 4 ^z 3 | | | | | | | |
| T16 | 6 3 29 | 0 ^z B56'18 | 12 ^z II22 | 18 ^z 16 | 13 ^z 57 | 22 ^z 46 | 17 ^z 17 | 0 ^z 53 | 21 ^z 48 | 13 ^z 8 | 26 ^z 45 | 27 ^z 17 | 28 ^z 27 | 20 ^z 14 | 4 ^z 2 | | | | | | | |
| F17 | 6 7 26 | 1 ^z 57'31 | 26 ^z 41 | 19 ^z 41 | 15 ^z 7 | 23 ^z 27 | 17 ^z 28 | 0 ^z 58 | 21 ^z 46 | 13 ^z 8 | 26 ^z 44 | 27 ^z 13 | 28 ^z 24 | 20 ^z 20 | 4 ^z 0 | | | | | | | |
| S1 | | | | | | | | | | | | | | | | | | | | | | |