

SWISS EPHEMERIS for the year 1163

JANUARY 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|-------|--------|---|
| T 1 | 7 6 25 | 17♁13'45 | 1♄20 | 26♁58 | 15♁41 | 25♁25 | 11♁43 | 13♁47 | 16♁12 | 24♁27 | 11°R 2 | 22°R51 | 23♁14 | 16♁30 | 17°R23 | |
| W 2 | 7 10 22 | 18°14'51 | 15°42 | 28°22 | 16°55 | 26°12 | 11°46 | 13°53 | 16°15 | 24°29 | 11♄ 1 | 22♁51 | 23°11 | 16°36 | 17♁19 | |
| T 3 | 7 14 18 | 19°15'56 | 0♁11 | 29°46 | 18° 9 | 26°59 | 11°50 | 13°59 | 16°18 | 24°31 | 11° 0 | 22°50 | 23° 7 | 16°43 | 17°16 | |
| F 4 | 7 18 15 | 20°17'01 | 14°44 | 1♁12 | 19°23 | 27°45 | 11°53 | 14° 6 | 16°21 | 24°33 | 10°59 | 22°50 | 23° 4 | 16°50 | 17°12 | |
| S 5 | 7 22 12 | 21°18'05 | 29°15 | 2°38 | 20°37 | 28°32 | 11°56 | 14°12 | 16°24 | 24°35 | 10°58 | 22°50 | 23° 1 | 16°57 | 17° 8 | |
| S 6 | 7 26 8 | 22°19'09 | 13♁39 | 4° 5 | 21°52 | 29°18 | 11°58 | 14°18 | 16°28 | 24°37 | 10°57 | 22°49 | 22°58 | 17° 3 | 17° 4 | |
| M 7 | 7 30 5 | 23°20'12 | 27°50 | 5°33 | 23° 6 | 0♁ 5 | 12° 1 | 14°24 | 16°31 | 24°39 | 10°57 | 22°49 | 22°55 | 17°10 | 17° 0 | |
| T 8 | 7 34 1 | 24°21'13 | 11♁43 | 7° 2 | 24°20 | 0°51 | 12° 4 | 14°30 | 16°34 | 24°41 | 10°56 | 22°49 | 22°52 | 17°17 | 16°56 | |
| W 9 | 7 37 58 | 25°22'14 | 25°16 | 8°32 | 25°34 | 1°38 | 12° 6 | 14°36 | 16°37 | 24°43 | 10°55 | 22°49 | 22°48 | 17°23 | 16°52 | |
| T 10 | 7 41 54 | 26°23'13 | 8♁26 | 10° 2 | 26°48 | 2°24 | 12° 8 | 14°42 | 16°41 | 24°45 | 10°54 | 22°49 | 22°45 | 17°30 | 16°48 | |
| F 11 | 7 45 51 | 27°24'12 | 21°15 | 11°33 | 28° 2 | 3°11 | 12°10 | 14°47 | 16°44 | 24°47 | 10°53 | 22°48 | 22°42 | 17°37 | 16°44 | |
| S 12 | 7 49 47 | 28°25'08 | 3♁45 | 13° 4 | 29°15 | 3°57 | 12°11 | 14°53 | 16°47 | 24°49 | 10°53 | 22°48 | 22°39 | 17°44 | 16°40 | |
| S 13 | 7 53 44 | 29°26'04 | 15°58 | 14°37 | 0♁29 | 4°44 | 12°13 | 14°59 | 16°51 | 24°51 | 10°52 | 22°47 | 22°36 | 17°50 | 16°36 | |
| M14 | 7 57 41 | 0♁26'58 | 28° 0 | 16°10 | 1°43 | 5°30 | 12°14 | 15° 5 | 16°54 | 24°53 | 10°51 | 22°D47 | 22°32 | 17°57 | 16°31 | |
| T 15 | 8 1 37 | 1°27'51 | 9♁54 | 17°44 | 2°57 | 6°16 | 12°15 | 15°10 | 16°57 | 24°55 | 10°51 | 22°47 | 22°29 | 18° 4 | 16°27 | |
| W16 | 8 5 34 | 2°28'42 | 21°45 | 19°18 | 4°10 | 7° 3 | 12°16 | 15°16 | 17° 1 | 24°57 | 10°50 | 22°48 | 22°26 | 18°10 | 16°23 | |
| T 17 | 8 9 30 | 3°29'32 | 3♄39 | 20°53 | 5°24 | 7°49 | 12°17 | 15°21 | 17° 4 | 24°59 | 10°49 | 22°49 | 22°23 | 18°17 | 16°18 | |
| F 18 | 8 13 27 | 4°30'21 | 15°38 | 22°29 | 6°37 | 8°35 | 12°18 | 15°27 | 17° 7 | 25° 1 | 10°49 | 22°50 | 22°20 | 18°24 | 16°14 | |
| S 19 | 8 17 23 | 5°31'08 | 27°49 | 24° 6 | 7°51 | 9°22 | 12°18 | 15°32 | 17°11 | 25° 3 | 10°48 | 22°51 | 22°17 | 18°31 | 16° 9 | |
| S 20 | 8 21 20 | 6°31'53 | 10♁12 | 25°44 | 9° 4 | 10° 8 | 12°R18 | 15°37 | 17°14 | 25° 4 | 10°47 | 22°52 | 22°13 | 18°37 | 16° 5 | |
| M21 | 8 25 16 | 7°32'37 | 22°51 | 27°22 | 10°18 | 10°54 | 12°18 | 15°43 | 17°18 | 25° 6 | 10°47 | 22°R52 | 22°10 | 18°44 | 16° 0 | |
| T 22 | 8 29 13 | 8°33'20 | 5♁46 | 29° 1 | 11°31 | 11°40 | 12°18 | 15°48 | 17°21 | 25° 8 | 10°46 | 22°52 | 22° 7 | 18°51 | 15°56 | |
| W23 | 8 33 10 | 9°34'01 | 18°59 | 0♁41 | 12°44 | 12°26 | 12°17 | 15°53 | 17°25 | 25°10 | 10°46 | 22°51 | 22° 4 | 18°57 | 15°51 | |
| T 24 | 8 37 6 | 10°34'41 | 2♄26 | 2°22 | 13°57 | 13°12 | 12°17 | 15°58 | 17°28 | 25°11 | 10°45 | 22°48 | 22° 1 | 19° 4 | 15°47 | |
| F 25 | 8 41 3 | 11°35'19 | 16° 8 | 4° 3 | 15°11 | 13°58 | 12°16 | 16° 3 | 17°31 | 25°13 | 10°45 | 22°46 | 21°58 | 19°11 | 15°42 | |
| S 26 | 8 44 59 | 12°35'56 | 0♁ 0 | 5°46 | 16°24 | 14°44 | 12°15 | 16° 8 | 17°35 | 25°15 | 10°44 | 22°43 | 21°54 | 19°17 | 15°37 | |
| S 27 | 8 48 56 | 13°36'32 | 14° 2 | 7°29 | 17°37 | 15°30 | 12°14 | 16°13 | 17°38 | 25°17 | 10°44 | 22°40 | 21°51 | 19°24 | 15°33 | |
| M28 | 8 52 52 | 14°37'07 | 28° 8 | 9°13 | 18°50 | 16°16 | 12°13 | 16°17 | 17°42 | 25°18 | 10°43 | 22°39 | 21°48 | 19°31 | 15°28 | |
| T 29 | 8 56 49 | 15°37'40 | 12♄18 | 10°58 | 20° 2 | 17° 2 | 12°11 | 16°22 | 17°45 | 25°20 | 10°43 | 22°D38 | 21°45 | 19°38 | 15°24 | |
| W30 | 9 0 45 | 16°38'12 | 26°29 | 12°44 | 21°15 | 17°48 | 12° 9 | 16°27 | 17°49 | 25°21 | 10°42 | 22°38 | 21°42 | 19°44 | 15°19 | |
| T 31 | 9 4 42 | 17°38'43 | 10♁38 | 14°31 | 22♁28 | 18♁34 | 12♁ 8 | 16♁31 | 17°52 | 25♁23 | 10♄42 | 22♁39 | 21♁38 | 19♁51 | 15♁14 | |

Delta T = 14m05s Julian Calendar 1 Jan. 1163 == Greg. Calendar 8 Jan. 1163

FEBRUARY 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|-------|-------|--------|---|
| F 1 | 9 8 39 | 18♁39'13 | 24♁45 | 16♁19 | 23♁41 | 19♁20 | 12°R 5 | 16♁36 | 17°56 | 25♁25 | 10°R42 | 22♁41 | 21♁35 | 19♁58 | 15°R10 | |
| S 2 | 9 12 35 | 19°39'41 | 8♁47 | 18° 7 | 24°53 | 20° 5 | 12♁ 3 | 16°40 | 17°59 | 25°26 | 10♄41 | 22°42 | 21°32 | 20° 4 | 15♁ 5 | |
| S 3 | 9 16 32 | 20°40'08 | 22°42 | 19°57 | 26° 6 | 20°51 | 12° 1 | 16°44 | 18° 3 | 25°28 | 10°41 | 22°R43 | 21°29 | 20°11 | 15° 0 | |
| M 4 | 9 20 28 | 21°40'33 | 6♁26 | 21°47 | 27°18 | 21°37 | 11°58 | 16°49 | 18° 6 | 25°29 | 10°41 | 22°42 | 21°26 | 20°18 | 14°56 | |
| T 5 | 9 24 25 | 22°40'56 | 19°59 | 23°39 | 28°31 | 22°23 | 11°55 | 16°53 | 18°10 | 25°31 | 10°40 | 22°40 | 21°23 | 20°25 | 14°51 | |
| W 6 | 9 28 21 | 23°41'18 | 3♁17 | 25°31 | 29°43 | 23° 8 | 11°52 | 16°57 | 18°13 | 25°32 | 10°40 | 22°36 | 21°19 | 20°31 | 14°47 | |
| T 7 | 9 32 18 | 24°41'38 | 16°18 | 27°24 | 0♁55 | 23°54 | 11°49 | 17° 1 | 18°16 | 25°33 | 10°40 | 22°31 | 21°16 | 20°38 | 14°42 | |
| F 8 | 9 36 14 | 25°41'56 | 29° 3 | 29°17 | 2° 7 | 24°39 | 11°46 | 17° 5 | 18°20 | 25°35 | 10°40 | 22°25 | 21°13 | 20°45 | 14°38 | |
| S 9 | 9 40 11 | 26°42'12 | 11♁31 | 1♁12 | 3°19 | 25°25 | 11°42 | 17° 9 | 18°23 | 25°36 | 10°39 | 22°19 | 21°10 | 20°51 | 14°33 | |
| S 10 | 9 44 8 | 27°42'26 | 23°45 | 3° 6 | 4°31 | 26°10 | 11°38 | 17°13 | 18°27 | 25°37 | 10°39 | 22°14 | 21° 7 | 20°58 | 14°29 | |
| M11 | 9 48 4 | 28°42'38 | 5♁47 | 5° 1 | 5°43 | 26°56 | 11°35 | 17°16 | 18°30 | 25°39 | 10°39 | 22° 9 | 21° 4 | 21° 5 | 14°24 | |
| T 12 | 9 52 1 | 29°42'48 | 17°42 | 6°57 | 6°55 | 27°41 | 11°30 | 17°20 | 18°34 | 25°40 | 10°39 | 22° 7 | 21° 0 | 21°11 | 14°20 | |
| W13 | 9 55 57 | 0♁42'55 | 29°33 | 8°52 | 8° 7 | 28°26 | 11°26 | 17°23 | 18°37 | 25°41 | 10°39 | 22°D 6 | 20°57 | 21°18 | 14°15 | |
| T 14 | 9 59 54 | 1°43'01 | 11♄26 | 10°47 | 9°18 | 29°12 | 11°22 | 17°27 | 18°40 | 25°42 | 10°39 | 22° 6 | 20°54 | 21°25 | 14°11 | |
| F 15 | 10 3 50 | 2°43'05 | 23°25 | 12°42 | 10°30 | 29°57 | 11°17 | 17°30 | 18°44 | 25°43 | 10°39 | 22° 8 | 20°51 | 21°32 | 14° 7 | |
| S 16 | 10 7 47 | 3°43'06 | 5♁36 | 14°36 | 11°41 | 0♁42 | 11°13 | 17°34 | 18°47 | 25°45 | 10°39 | 22° 9 | 20°48 | 21°38 | 14° 3 | |
| S 17 | 10 11 43 | 4°43'05 | 18° 3 | 16°29 | 12°52 | 1°27 | 11° 8 | 17°37 | 18°51 | 25°46 | 10°D39 | 22°R10 | 20°44 | 21°45 | 13°58 | |
| M18 | 10 15 40 | 5°43'02 | 0♁50 | 18°21 | 14° 3 | 2°12 | 11° 3 | 17°40 | 18°54 | 25°47 | 10°39 | 22°10 | 20°41 | 21°52 | 13°54 | |
| T 19 | 10 19 37 | 6°42'57 | 13°59 | 20°10 | 15°15 | 2°58 | 10°58 | 17°43 | 18°57 | 25°48 | 10°39 | 22° 8 | 20°38 | 21°58 | 13°50 | |
| W20 | 10 23 33 | 7°42'50 | 27°30 | 21°58 | 16°25 | 3°43 | 10°52 | 17°46 | 19° 1 | 25°49 | 10°39 | 22° 4 | 20°35 | 22° 5 | 13°46 | |
| T 21 | 10 27 30 | 8°42'41 | 11♄23 | 23°43 | 17°36 | 4°28 | 10°47 | 17°49 | 19° 4 | 25°50 | 10°39 | 21°58 | 20°32 | 22°12 | 13°42 | |
| F 22 | 10 31 26 | 9°42'29 | 25°32 | 25°24 | 18°47 | 5°12 | 10°41 | 17°51 | 19° 7 | 25°51 | 10°39 | 21°50 | 20°29 | 22°19 | 13°38 | |
| S 23 | 10 35 23 | 10°42'16 | 9♁55 | 27° 2 | 19°58 | 5°57 | 10°36 | 17°54 | 19°11 | 25°52 | 10°39 | 21°42 | 20°25 | 22°25 | 13°34 | |
| S 24 | 10 39 19 | 11°42'01 | 24°23 | 28°36 | 21° 8 | 6°42 | 10°30 | 17°57 | 19°14 | 25°52 | 10°39 | 21°35 | 20°22 | 22°32 | 13°31 | |
| M25 | 10 43 16 | 12°41'44 | 8♄51 | 0♁ 5 | 22°19 | 7°27 | 10°24 | 17°59 | 19°17 | 25°53 | 10°40 | 21°29 | 20°19 | 22°39 | 13°27 | |
| T 26 | 10 47 12 | 13°41'25 | 23°15 | 1°29 | 23°29 | 8°12 | 10°18 | 18° 1 | 19°20 | 25°54 | 10°40 | 21°25 | 20°16 | 22°45 | 13°23 | |
| W27 | 10 51 9 | 14°41'05 | 7♁29 | 2°47 | 24°39 | 8°56 | 10°11 | 18° 4 | 19°24 | 25°55 | 10°40 | 21°23 | 20°13 | 22°52 | 13°20 | |
| T 28 | 10 55 6 | 15°40'43 | 21♁33 | 4♁ 0 | 25♁49 | 9♁41 | 10♁ 5 | 18♁ 6 | 19°27 | 25♁56 | 10♄40 | 21°D23 | 20°9 | 22♁59 | 13♁16 | |

Delta T = 14m05s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 1163

MARCH 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|--------|---|---|---|---|---|---|---|---|
| F 1 | 10 59 2 | 16✠40'19 | 5☾26 | 5♃5 | 26♃59 | 10♃26 | 9°R59 | 18♂8 | 19♁30 | 25♂56 | 10♂41 | 21☾23 | 20☾6 | 23♂5 | 13°R13 | | | | | | | | |
| S 2 | 11 2 59 | 17°39'54 | 19°7 | 6°4 | 28°9 | 11°10 | 9♁52 | 18°10 | 19°33 | 25°57 | 10°41 | 21°R24 | 20°3 | 23°12 | 13♁9 | | | | | | | | |
| S 3 | 11 6 55 | 18°39'27 | 2♁36 | 6°56 | 29°18 | 11°55 | 9°45 | 18°12 | 19°36 | 25°58 | 10°41 | 21°24 | 20°0 | 23°19 | 13°6 | | | | | | | | |
| M 4 | 11 10 52 | 19°38'57 | 15°55 | 7°41 | 0♁28 | 12°39 | 9°39 | 18°14 | 19°39 | 25°58 | 10°41 | 21°21 | 19°57 | 23°26 | 13°3 | | | | | | | | |
| T 5 | 11 14 48 | 20°38'26 | 29°3 | 8°18 | 1°37 | 13°24 | 9°32 | 18°15 | 19°42 | 25°59 | 10°42 | 21°16 | 19°54 | 23°32 | 13°0 | | | | | | | | |
| W 6 | 11 18 45 | 21°37'53 | 12♁6 | 8°47 | 2°46 | 14°8 | 9°25 | 18°17 | 19°46 | 26°0 | 10°42 | 21°8 | 19°50 | 23°39 | 12°56 | | | | | | | | |
| T 7 | 11 22 41 | 22°37'18 | 24°45 | 9°9 | 3°55 | 14°53 | 9°18 | 18°18 | 19°49 | 26°0 | 10°43 | 20°57 | 19°47 | 23°46 | 12°54 | | | | | | | | |
| F 8 | 11 26 38 | 23°36'40 | 7♃18 | 9°23 | 5°4 | 15°37 | 9°11 | 18°20 | 19°52 | 26°1 | 10°43 | 20°46 | 19°44 | 23°52 | 12°51 | | | | | | | | |
| S 9 | 11 30 35 | 24°36'01 | 19°38 | 9°R29 | 6°13 | 16°21 | 9°3 | 18°21 | 19°55 | 26°1 | 10°43 | 20°34 | 19°41 | 23°59 | 12°48 | | | | | | | | |
| S 10 | 11 34 31 | 25°35'19 | 1♁47 | 9°28 | 7°22 | 17°5 | 8°56 | 18°22 | 19°58 | 26°1 | 10°44 | 20°23 | 19°38 | 24°6 | 12°45 | | | | | | | | |
| M11 | 11 38 28 | 26°34'35 | 13°47 | 9°19 | 8°30 | 17°49 | 8°49 | 18°24 | 20°1 | 26°2 | 10°44 | 20°13 | 19°35 | 24°12 | 12°42 | | | | | | | | |
| T12 | 11 42 24 | 27°33'49 | 25°40 | 9°4 | 9°38 | 18°34 | 8°41 | 18°25 | 20°3 | 26°2 | 10°45 | 20°6 | 19°31 | 24°19 | 12°40 | | | | | | | | |
| W13 | 11 46 21 | 28°33'01 | 7♂29 | 8°42 | 10°47 | 19°18 | 8°34 | 18°25 | 20°6 | 26°3 | 10°45 | 20°1 | 19°28 | 24°26 | 12°37 | | | | | | | | |
| T14 | 11 50 17 | 29°32'10 | 19°20 | 8°14 | 11°55 | 20°2 | 8°26 | 18°26 | 20°9 | 26°3 | 10°46 | 19°59 | 19°25 | 24°32 | 12°35 | | | | | | | | |
| F15 | 11 54 14 | 0♃31'17 | 1☾18 | 7°41 | 13°2 | 20°46 | 8°19 | 18°27 | 20°12 | 26°3 | 10°46 | 19°D59 | 19°22 | 24°39 | 12°33 | | | | | | | | |
| S16 | 11 58 10 | 1°30'21 | 13°26 | 7°3 | 14°10 | 21°29 | 8°11 | 18°28 | 20°15 | 26°3 | 10°47 | 19°R59 | 19°19 | 24°46 | 12°31 | | | | | | | | |
| S17 | 12 2 7 | 2°29'24 | 25°52 | 6°22 | 15°17 | 22°13 | 8°4 | 18°28 | 20°18 | 26°4 | 10°48 | 19°59 | 19°15 | 24°53 | 12°29 | | | | | | | | |
| M18 | 12 6 3 | 3°28'24 | 8♁40 | 5°38 | 16°25 | 22°57 | 7°56 | 18°29 | 20°20 | 26°4 | 10°48 | 19°58 | 19°12 | 24°59 | 12°27 | | | | | | | | |
| T19 | 12 10 0 | 4°27'21 | 21°53 | 4°52 | 17°32 | 23°41 | 7°48 | 18°29 | 20°23 | 26°4 | 10°49 | 19°54 | 19°9 | 25°6 | 12°25 | | | | | | | | |
| W20 | 12 13 57 | 5°26'16 | 5♂33 | 4°5 | 18°38 | 24°25 | 7°41 | 18°29 | 20°26 | 26°4 | 10°50 | 19°48 | 19°6 | 25°13 | 12°23 | | | | | | | | |
| T21 | 12 17 53 | 6°25'09 | 19°40 | 3°17 | 19°45 | 25°8 | 7°33 | 18°29 | 20°29 | 26°4 | 10°50 | 19°39 | 19°3 | 25°19 | 12°21 | | | | | | | | |
| F22 | 12 21 50 | 7°24'00 | 4♁11 | 2°31 | 20°52 | 25°52 | 7°25 | 18°R29 | 20°31 | 26°R4 | 10°51 | 19°29 | 19°0 | 25°26 | 12°20 | | | | | | | | |
| S23 | 12 25 46 | 8°22'49 | 18°58 | 1°46 | 21°58 | 26°35 | 7°18 | 18°29 | 20°34 | 26°4 | 10°52 | 19°17 | 18°56 | 25°33 | 12°18 | | | | | | | | |
| S24 | 12 29 43 | 9°21'36 | 3♂53 | 1°4 | 23°4 | 27°19 | 7°10 | 18°29 | 20°36 | 26°4 | 10°52 | 19°7 | 18°53 | 25°39 | 12°17 | | | | | | | | |
| M25 | 12 33 39 | 10°20'21 | 18°46 | 0°25 | 24°9 | 28°2 | 7°2 | 18°29 | 20°39 | 26°4 | 10°53 | 18°58 | 18°50 | 25°46 | 12°15 | | | | | | | | |
| T26 | 12 37 36 | 11°19'04 | 3♂31 | 29♁49 | 25°15 | 28°46 | 6°55 | 18°28 | 20°41 | 26°4 | 10°54 | 18°51 | 18°47 | 25°53 | 12°14 | | | | | | | | |
| W27 | 12 41 32 | 12°17'46 | 18°1 | 29°18 | 26°20 | 29°29 | 6°47 | 18°28 | 20°44 | 26°4 | 10°55 | 18°47 | 18°44 | 26°0 | 12°13 | | | | | | | | |
| T28 | 12 45 29 | 13°16'25 | 2♁12 | 28°51 | 27°25 | 0♁12 | 6°39 | 18°27 | 20°46 | 26°3 | 10°56 | 18°46 | 18°40 | 26°6 | 12°12 | | | | | | | | |
| F29 | 12 49 26 | 14°15'03 | 16°3 | 28°29 | 28°30 | 0°56 | 6°32 | 18°27 | 20°49 | 26°3 | 10°56 | 18°46 | 18°37 | 26°13 | 12°11 | | | | | | | | |
| S30 | 12 53 22 | 15°13'40 | 29°36 | 28°12 | 29°35 | 1°39 | 6°24 | 18°26 | 20°51 | 26°3 | 10°57 | 18°46 | 18°34 | 26°20 | 12°11 | | | | | | | | |
| S31 | 12 57 19 | 16♃12'15 | 12♁52 | 27♁59 | 0♂39 | 2♁22 | 6♁17 | 18♂25 | 20♁53 | 26♂3 | 10♂58 | 18☾44 | 18☾31 | 26♂26 | 12♁10 | | | | | | | | |

Delta T = 14m05s Julian Calendar 1 March 1163 == Greg. Calendar 8 March 1163

APRIL 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|----------|----------|-------|--------|-------|-------|------|--------|-------|-------|-------|--------|-------|-------|-------|---|---|---|---|---|---|---|---|
| M 1 | 13 1 15 | 17♃10'48 | 25♁54 | 27°R53 | 1♂43 | 3♁5 | 6°R9 | 18°R24 | 20♁56 | 26°R2 | 10♂59 | 18°R40 | 18☾28 | 26♂33 | 12°R9 | | | | | | | | |
| T 2 | 13 5 12 | 18°9'19 | 8♁43 | 27°D51 | 2°47 | 3°48 | 6♁2 | 18♂23 | 20°58 | 26♂2 | 11°0 | 18☾34 | 18°25 | 26°40 | 12♁9 | | | | | | | | |
| W 3 | 13 9 8 | 19°7'48 | 21°20 | 27♁54 | 3°51 | 4°31 | 5°54 | 18°22 | 21°0 | 26°2 | 11°1 | 18°24 | 18°21 | 26°46 | 12°9 | | | | | | | | |
| T 4 | 13 13 5 | 20°6'16 | 3♃48 | 28°2 | 4°54 | 5°14 | 5°47 | 18°21 | 21°2 | 26°1 | 11°2 | 18°12 | 18°18 | 26°53 | 12°8 | | | | | | | | |
| F 5 | 13 17 1 | 21°4'42 | 16°6 | 28°15 | 5°57 | 5°57 | 5°40 | 18°20 | 21°4 | 26°1 | 11°3 | 17°59 | 18°15 | 27°0 | 12°8 | | | | | | | | |
| S 6 | 13 20 58 | 22°3'06 | 28°15 | 28°33 | 7°0 | 6°40 | 5°33 | 18°18 | 21°6 | 26°0 | 11°4 | 17°45 | 18°12 | 27°6 | 12°D8 | | | | | | | | |
| S 7 | 13 24 55 | 23°1'28 | 10♁16 | 28°56 | 8°2 | 7°23 | 5°26 | 18°17 | 21°8 | 26°0 | 11°5 | 17°31 | 18°9 | 27°13 | 12°8 | | | | | | | | |
| M 8 | 13 28 51 | 23°59'48 | 22°11 | 29°22 | 9°4 | 8°6 | 5°19 | 18°15 | 21°10 | 25°59 | 11°6 | 17°20 | 18°6 | 27°20 | 12°9 | | | | | | | | |
| T 9 | 13 32 48 | 24°58'06 | 4♂1 | 29°53 | 10°6 | 8°48 | 5°12 | 18°13 | 21°12 | 25°59 | 11°7 | 17°11 | 18°2 | 27°27 | 12°9 | | | | | | | | |
| W10 | 13 36 44 | 25°56'22 | 15°50 | 0♃28 | 11°7 | 9°31 | 5°5 | 18°12 | 21°14 | 25°58 | 11°8 | 17°5 | 17°59 | 27°33 | 12°9 | | | | | | | | |
| T11 | 13 40 41 | 26°54'37 | 27°40 | 1°7 | 12°8 | 10°14 | 4°58 | 18°10 | 21°16 | 25°58 | 11°9 | 17°1 | 17°56 | 27°40 | 12°10 | | | | | | | | |
| F12 | 13 44 37 | 27°52'49 | 9☾36 | 1°50 | 13°9 | 10°56 | 4°51 | 18°8 | 21°18 | 25°57 | 11°10 | 17°0 | 17°53 | 27°47 | 12°11 | | | | | | | | |
| S13 | 13 48 34 | 28°50'59 | 21°42 | 2°36 | 14°9 | 11°39 | 4°45 | 18°6 | 21°20 | 25°56 | 11°11 | 17°D0 | 17°50 | 27°53 | 12°11 | | | | | | | | |
| S14 | 13 52 30 | 29°49'07 | 4♁6 | 3°26 | 15°9 | 12°21 | 4°38 | 18°4 | 21°22 | 25°56 | 11°12 | 17°R0 | 17°46 | 28°0 | 12°12 | | | | | | | | |
| M15 | 13 56 27 | 0♁47'14 | 16°50 | 4°19 | 16°9 | 13°4 | 4°32 | 18°2 | 21°23 | 25°55 | 11°13 | 16°59 | 17°43 | 28°7 | 12°13 | | | | | | | | |
| T16 | 14 0 24 | 1°45'18 | 0♂0 | 5°15 | 17°8 | 13°46 | 4°26 | 17°59 | 21°25 | 25°54 | 11°14 | 16°56 | 17°40 | 28°13 | 12°14 | | | | | | | | |
| W17 | 14 4 20 | 2°43'20 | 13°40 | 6°14 | 18°6 | 14°29 | 4°20 | 17°57 | 21°27 | 25°53 | 11°15 | 16°51 | 17°37 | 28°20 | 12°16 | | | | | | | | |
| T18 | 14 8 17 | 3°41'20 | 27°49 | 7°17 | 19°5 | 15°11 | 4°14 | 17°54 | 21°28 | 25°53 | 11°17 | 16°43 | 17°34 | 28°27 | 12°17 | | | | | | | | |
| F19 | 14 12 13 | 4°39'18 | 12♁25 | 8°22 | 20°2 | 15°53 | 4°8 | 17°52 | 21°30 | 25°52 | 11°18 | 16°34 | 17°31 | 28°33 | 12°18 | | | | | | | | |
| S20 | 14 16 10 | 5°37'15 | 27°23 | 9°29 | 21°0 | 16°35 | 4°2 | 17°49 | 21°31 | 25°51 | 11°19 | 16°23 | 17°27 | 28°40 | 12°20 | | | | | | | | |
| S21 | 14 20 6 | 6°35'10 | 12♂34 | 10°40 | 21°57 | 17°17 | 3°57 | 17°47 | 21°33 | 25°50 | 11°20 | 16°14 | 17°24 | 28°47 | 12°21 | | | | | | | | |
| M22 | 14 24 3 | 7°33'03 | 27°46 | 11°53 | 22°53 | 17°59 | 3°51 | 17°44 | 21°34 | 25°49 | 11°21 | 16°5 | 17°21 | 28°54 | 12°23 | | | | | | | | |
| T23 | 14 27 59 | 8°30'55 | 12♂50 | 13°8 | 23°49 | 18°41 | 3°46 | 17°41 | 21°36 | 25°48 | 11°23 | 15°59 | 17°18 | 29°0 | 12°25 | | | | | | | | |
| W24 | 14 31 56 | 9°28'46 | 27°37 | 14°26 | 24°44 | 19°23 | 3°41 | 17°38 | 21°37 | 25°47 | 11°24 | 15°56 | 17°15 | 29°7 | 12°27 | | | | | | | | |
| T25 | 14 35 53 | 10°26'36 | 12♁3 | 15°47 | 25°39 | 20°5 | 3°36 | 17°35 | 21°38 | 25°46 | 11°25 | 15°D55 | 17°12 | 29°14 | 12°29 | | | | | | | | |
| F26 | 14 39 49 | 11°24'24 | 26°3 | 17°9 | 26°33 | 20°47 | 3°31 | 17°32 | 21°39 | 25°45 | 11°26 | 15°55 | 17°8 | 29°20 | 12°31 | | | | | | | | |
| S27 | 14 43 46 | 12°22'11 | 9♁40 | 18°34 | 27°27 | 21°29 | 3°26 | 17°29 | 21°41 | 25°44 | 11°27 | 15°R55 | 17°5 | 29°27 | 12°33 | | | | | | | | |
| S28 | 14 47 42 | 13°19'57 | 22°54 | 20°2 | 28°20 | 22°11 | 3°22 | 17°26 | 21°42 | 25°43 | 11°29 | 15°55 | 17°2 | 29°34 | 12°36 | | | | | | | | |
| M29 | 14 51 39 | 14°17'41 | 5♁48 | 21°31 | 29°12 | 22°53 | 3°17 | 17°22 | 21°43 | 25°42 | 11°30 | 15°53 | 16°59 | 29°40 | 12°38 | | | | | | | | |
| T30 | 14 55 35 | 15♁15'25 | 18♁27 | 23♃3 | 0♁4 | 23♁35 | 3♁13 | 17♂19 | 21♁44 | 25♂41 | 11♂31 | 15☾48 | 16☾56 | 29♂47 | 12♁40 | | | | | | | | |

Delta T = 14m05s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 1163

MAY 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ |
|------|----------|----------|-------|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|-------|-------|---|
| W 1 | 14 59 32 | 16♁13'07 | 0♂52 | 24♂38 | 0♁55 | 24♁16 | 3°R 9 | 17°R16 | 21♁45 | 25°R40 | 11♁33 | 15°R41 | 16♁52 | 29♁54 | 12♁43 | |
| T 2 | 15 3 28 | 17°10'48 | 13° 6 | 26°14 | 1°46 | 24°58 | 3♁ 5 | 17♁12 | 21°46 | 25♁39 | 11°34 | 15♁32 | 16°49 | 0♁ 0 | 12°46 | |
| F 3 | 15 7 25 | 18° 8'28 | 25°12 | 27°53 | 2°35 | 25°39 | 3° 1 | 17° 9 | 21°47 | 25°37 | 11°35 | 15°22 | 16°46 | 0° 7 | 12°49 | |
| S 4 | 15 11 21 | 19° 6'07 | 7♁12 | 29°34 | 3°24 | 26°21 | 2°58 | 17° 5 | 21°47 | 25°36 | 11°36 | 15°11 | 16°43 | 0°14 | 12°52 | |
| S 5 | 15 15 18 | 20° 3'44 | 19° 6 | 1♁17 | 4°12 | 27° 3 | 2°54 | 17° 1 | 21°48 | 25°35 | 11°38 | 15° 1 | 16°40 | 0°20 | 12°55 | |
| M 6 | 15 19 15 | 21° 1'21 | 0♁57 | 3° 2 | 5° 0 | 27°44 | 2°51 | 16°58 | 21°49 | 25°34 | 11°39 | 14°52 | 16°37 | 0°27 | 12°58 | |
| T 7 | 15 23 11 | 21°58'56 | 12°46 | 4°49 | 5°47 | 28°25 | 2°48 | 16°54 | 21°50 | 25°33 | 11°40 | 14°46 | 16°33 | 0°34 | 13° 1 | |
| W 8 | 15 27 8 | 22°56'30 | 24°35 | 6°39 | 6°32 | 29° 7 | 2°45 | 16°50 | 21°50 | 25°31 | 11°42 | 14°41 | 16°30 | 0°41 | 13° 4 | |
| T 9 | 15 31 4 | 23°54'02 | 6♁27 | 8°31 | 7°17 | 29°48 | 2°43 | 16°46 | 21°51 | 25°30 | 11°43 | 14°39 | 16°27 | 0°47 | 13° 8 | |
| F 10 | 15 35 1 | 24°51'33 | 18°25 | 10°25 | 8° 1 | 0♁29 | 2°40 | 16°42 | 21°51 | 25°29 | 11°45 | 14°D39 | 16°24 | 0°54 | 13°11 | |
| S 11 | 15 38 57 | 25°49'03 | 0♁34 | 12°21 | 8°44 | 1°11 | 2°38 | 16°39 | 21°52 | 25°27 | 11°46 | 14°40 | 16°21 | 1° 1 | 13°15 | |
| S 12 | 15 42 54 | 26°46'32 | 12°57 | 14°19 | 9°26 | 1°52 | 2°35 | 16°35 | 21°52 | 25°26 | 11°47 | 14°41 | 16°18 | 1° 7 | 13°19 | |
| M 13 | 15 46 51 | 27°43'59 | 25°40 | 16°20 | 10° 7 | 2°33 | 2°33 | 16°31 | 21°53 | 25°25 | 11°49 | 14°R41 | 16°14 | 1°14 | 13°22 | |
| T 14 | 15 50 47 | 28°41'25 | 8♁46 | 18°22 | 10°47 | 3°14 | 2°32 | 16°26 | 21°53 | 25°23 | 11°50 | 14°41 | 16°11 | 1°21 | 13°26 | |
| W 15 | 15 54 44 | 29°38'49 | 22°20 | 20°26 | 11°26 | 3°55 | 2°30 | 16°22 | 21°54 | 25°22 | 11°51 | 14°39 | 16° 8 | 1°27 | 13°30 | |
| T 16 | 15 58 40 | 0♁36'13 | 6♁22 | 22°31 | 12° 3 | 4°36 | 2°28 | 16°18 | 21°54 | 25°20 | 11°53 | 14°35 | 16° 5 | 1°34 | 13°34 | |
| F 17 | 16 2 37 | 1°33'35 | 20°52 | 24°39 | 12°40 | 5°17 | 2°27 | 16°14 | 21°54 | 25°19 | 11°54 | 14°30 | 16° 2 | 1°41 | 13°39 | |
| S 18 | 16 6 33 | 2°30'56 | 5♁45 | 26°47 | 13°15 | 5°58 | 2°26 | 16°10 | 21°54 | 25°17 | 11°56 | 14°24 | 15°58 | 1°47 | 13°43 | |
| S 19 | 16 10 30 | 3°28'16 | 20°55 | 28°57 | 13°48 | 6°39 | 2°25 | 16° 6 | 21°54 | 25°16 | 11°57 | 14°18 | 15°55 | 1°54 | 13°47 | |
| M 20 | 16 14 26 | 4°25'35 | 6♁11 | 1♁ 8 | 14°21 | 7°20 | 2°24 | 16° 1 | 21°54 | 25°15 | 11°58 | 14°13 | 15°52 | 2° 1 | 13°52 | |
| T 21 | 16 18 23 | 5°22'53 | 21°23 | 3°19 | 14°52 | 8° 1 | 2°24 | 15°57 | 21°R54 | 25°13 | 12° 0 | 14° 9 | 15°49 | 2° 7 | 13°56 | |
| W 22 | 16 22 20 | 6°20'11 | 6♁22 | 5°31 | 15°21 | 8°41 | 2°23 | 15°53 | 21°54 | 25°12 | 12° 1 | 14° 8 | 15°46 | 2°14 | 14° 1 | |
| T 23 | 16 26 16 | 7°17'28 | 21° 0 | 7°43 | 15°49 | 9°22 | 2°23 | 15°49 | 21°54 | 25°10 | 12° 3 | 14°D 7 | 15°43 | 2°21 | 14° 5 | |
| F 24 | 16 30 13 | 8°14'45 | 5♁12 | 9°55 | 16°16 | 10° 3 | 2°D23 | 15°44 | 21°54 | 25° 9 | 12° 4 | 14° 9 | 15°39 | 2°27 | 14°10 | |
| S 25 | 16 34 9 | 9°12'01 | 18°57 | 12° 6 | 16°40 | 10°43 | 2°23 | 15°40 | 21°54 | 25° 7 | 12° 5 | 14°10 | 15°36 | 2°34 | 14°15 | |
| S 26 | 16 38 6 | 10° 9'16 | 2♁17 | 14°17 | 17° 4 | 11°24 | 2°23 | 15°35 | 21°54 | 25° 5 | 12° 7 | 14°11 | 15°33 | 2°41 | 14°20 | |
| M 27 | 16 42 2 | 11° 6'32 | 15°13 | 16°27 | 17°25 | 12° 5 | 2°24 | 15°31 | 21°53 | 25° 4 | 12° 8 | 14°R11 | 15°30 | 2°48 | 14°25 | |
| T 28 | 16 45 59 | 12° 3'47 | 27°50 | 18°36 | 17°45 | 12°45 | 2°25 | 15°27 | 21°53 | 25° 2 | 12°10 | 14°10 | 15°27 | 2°54 | 14°30 | |
| W 29 | 16 49 55 | 13° 1'01 | 10♂10 | 20°43 | 18° 2 | 13°26 | 2°25 | 15°22 | 21°53 | 25° 1 | 12°11 | 14° 8 | 15°23 | 3° 1 | 14°35 | |
| T 30 | 16 53 52 | 13°58'16 | 22°18 | 22°49 | 18°18 | 14° 6 | 2°27 | 15°18 | 21°52 | 24°59 | 12°12 | 14° 4 | 15°20 | 3° 8 | 14°40 | |
| F 31 | 16 57 49 | 14♁55'30 | 4♁17 | 24♁53 | 18♁32 | 14♁47 | 2♁28 | 15♁13 | 21♁52 | 24♁58 | 12♁14 | 13♁59 | 15♁17 | 3♁14 | 14♁45 | |

Delta T = 14m04s Julian Calendar 1 May 1163 == Greg. Calendar 8 May 1163

JUNE 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | ♃ | ♄ |
|------|----------|----------|-------|-------|--------|-------|------|--------|--------|--------|-------|--------|-------|------|-------|---|
| S 1 | 17 1 45 | 15♁52'44 | 16♁10 | 26♁56 | 18♁44 | 15♁27 | 2♁29 | 15°R 9 | 21°R51 | 24°R56 | 12♁15 | 13°R54 | 15♁14 | 3♁21 | 14♁51 | |
| S 2 | 17 5 42 | 16°49'57 | 28° 0 | 28°56 | 18°54 | 16° 7 | 2°31 | 15♁ 5 | 21♁51 | 24♁54 | 12°17 | 13♁50 | 15°11 | 3°28 | 14°56 | |
| M 3 | 17 9 38 | 17°47'10 | 9♁49 | 0♁55 | 19° 1 | 16°48 | 2°32 | 15° 0 | 21°50 | 24°53 | 12°18 | 13°46 | 15° 8 | 3°34 | 15° 2 | |
| T 4 | 17 13 35 | 18°44'23 | 21°40 | 2°51 | 19° 7 | 17°28 | 2°34 | 14°56 | 21°50 | 24°51 | 12°20 | 13°43 | 15° 4 | 3°41 | 15° 7 | |
| W 5 | 17 17 31 | 19°41'36 | 3♁33 | 4°46 | 19°10 | 18° 8 | 2°36 | 14°51 | 21°49 | 24°50 | 12°21 | 13°41 | 15° 1 | 3°48 | 15°13 | |
| T 6 | 17 21 28 | 20°38'48 | 15°32 | 6°38 | 19°R11 | 18°48 | 2°39 | 14°47 | 21°48 | 24°48 | 12°22 | 13°D41 | 14°58 | 3°54 | 15°19 | |
| F 7 | 17 25 24 | 21°36'00 | 27°39 | 8°29 | 19°10 | 19°28 | 2°41 | 14°43 | 21°47 | 24°46 | 12°24 | 13°42 | 14°55 | 4° 1 | 15°25 | |
| S 8 | 17 29 21 | 22°33'11 | 9♁56 | 10°17 | 19° 6 | 20° 8 | 2°44 | 14°38 | 21°47 | 24°45 | 12°25 | 13°43 | 14°52 | 4° 8 | 15°31 | |
| S 9 | 17 33 18 | 23°30'22 | 22°26 | 12° 2 | 19° 0 | 20°49 | 2°47 | 14°34 | 21°46 | 24°43 | 12°27 | 13°44 | 14°49 | 4°14 | 15°36 | |
| M 10 | 17 37 14 | 24°27'33 | 5♁13 | 13°46 | 18°51 | 21°29 | 2°49 | 14°30 | 21°45 | 24°42 | 12°28 | 13°46 | 14°45 | 4°21 | 15°42 | |
| T 11 | 17 41 11 | 25°24'43 | 18°20 | 15°28 | 18°40 | 22° 9 | 2°53 | 14°25 | 21°44 | 24°40 | 12°29 | 13°46 | 14°42 | 4°28 | 15°49 | |
| W 12 | 17 45 7 | 26°21'53 | 1♁49 | 17° 7 | 18°27 | 22°48 | 2°56 | 14°21 | 21°43 | 24°38 | 12°31 | 13°R46 | 14°39 | 4°34 | 15°55 | |
| T 13 | 17 49 4 | 27°19'02 | 15°42 | 18°44 | 18°11 | 23°28 | 2°59 | 14°17 | 21°42 | 24°37 | 12°32 | 13°46 | 14°36 | 4°41 | 16° 1 | |
| F 14 | 17 53 0 | 28°16'11 | 29°59 | 20°19 | 17°53 | 24° 8 | 3° 3 | 14°13 | 21°41 | 24°35 | 12°33 | 13°44 | 14°33 | 4°48 | 16° 7 | |
| S 15 | 17 56 57 | 29°13'20 | 14♁38 | 21°51 | 17°33 | 24°48 | 3° 7 | 14° 8 | 21°39 | 24°33 | 12°35 | 13°43 | 14°29 | 4°54 | 16°14 | |
| S 16 | 18 0 53 | 0♁10'28 | 29°33 | 23°22 | 17°10 | 25°28 | 3°11 | 14° 4 | 21°38 | 24°32 | 12°36 | 13°41 | 14°26 | 5° 1 | 16°20 | |
| M 17 | 18 4 50 | 1° 7'37 | 14♁37 | 24°50 | 16°45 | 26° 8 | 3°15 | 14° 0 | 21°37 | 24°30 | 12°38 | 13°40 | 14°23 | 5° 8 | 16°26 | |
| T 18 | 18 8 47 | 2° 4'45 | 29°42 | 26°16 | 16°19 | 26°47 | 3°19 | 13°56 | 21°36 | 24°29 | 12°39 | 13°39 | 14°20 | 5°14 | 16°33 | |
| W 19 | 18 12 43 | 3° 1'54 | 14♁39 | 27°39 | 15°50 | 27°27 | 3°23 | 13°52 | 21°35 | 24°27 | 12°40 | 13°D39 | 14°17 | 5°21 | 16°39 | |
| T 20 | 18 16 40 | 3°59'03 | 29°19 | 29° 0 | 15°20 | 28° 7 | 3°28 | 13°48 | 21°33 | 24°25 | 12°42 | 13°39 | 14°14 | 5°28 | 16°46 | |
| F 21 | 18 20 36 | 4°56'12 | 13♁37 | 0♁19 | 14°48 | 28°46 | 3°33 | 13°44 | 21°32 | 24°24 | 12°43 | 13°40 | 14°10 | 5°34 | 16°53 | |
| S 22 | 18 24 33 | 5°53'21 | 27°30 | 1°35 | 14°14 | 29°26 | 3°38 | 13°40 | 21°30 | 24°22 | 12°44 | 13°40 | 14° 7 | 5°41 | 16°59 | |
| S 23 | 18 28 29 | 6°50'31 | 10♁57 | 2°49 | 13°40 | 0♁ 6 | 3°43 | 13°36 | 21°29 | 24°21 | 12°46 | 13°41 | 14° 4 | 5°48 | 17° 6 | |
| M 24 | 18 32 26 | 7°47'42 | 23°58 | 4° 1 | 13° 4 | 0°45 | 3°48 | 13°32 | 21°27 | 24°19 | 12°47 | 13°41 | 14° 1 | 5°55 | 17°13 | |
| T 25 | 18 36 22 | 8°44'53 | 6♂38 | 5° 9 | 12°27 | 1°25 | 3°53 | 13°29 | 21°26 | 24°18 | 12°48 | 13°R42 | 13°58 | 6° 1 | 17°20 | |
| W 26 | 18 40 19 | 9°42'04 | 18°58 | 6°15 | 11°50 | 2° 4 | 3°59 | 13°25 | 21°24 | 24°16 | 12°49 | 13°42 | 13°55 | 6° 8 | 17°27 | |
| T 27 | 18 44 16 | 10°39'17 | 1♁ 5 | 7°18 | 11°13 | 2°44 | 4° 4 | 13°21 | 21°23 | 24°14 | 12°51 | 13°41 | 13°51 | 6°15 | 17°34 | |
| F 28 | 18 48 12 | 11°36'30 | 13° 2 | 8°19 | 10°36 | 3°23 | 4°10 | 13°18 | 21°21 | 24°13 | 12°52 | 13°41 | 13°48 | 6°21 | 17°41 | |
| S 29 | 18 52 9 | 12°33'43 | 24°53 | 9°16 | 9°58 | 4° 2 | 4°16 | 13°14 | 21°19 | 24°11 | 12°53 | 13°41 | 13°45 | 6°28 | 17°48 | |
| S 30 | 18 56 5 | 13♁30'58 | 6♁41 | 10♁10 | 9♁22 | 4♁42 | 4♁22 | 13♁10 | 21♁18 | 24♁10 | 12♁55 | 13°D41 | 13♁42 | 6♁35 | 17♁55 | |

Delta T = 14m04s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1163

JULY 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|-----|----------|----------|-------|--------|-------|-------|------|--------|--------|--------|-------|--------|-------|-------|-------|---|
| M 1 | 19 0 2 | 14☉28'13 | 18♁32 | 11♁ 1 | 8°R45 | 5☉21 | 4♁28 | 13°R 7 | 21°R16 | 24°R 8 | 12♁56 | 13☉41 | 13☉39 | 6♁41 | 18♁ 2 | |
| T 2 | 19 3 58 | 15°25'29 | 0☉26 | 11°49 | 8☉10 | 6° 0 | 4°35 | 13♁ 4 | 21♁14 | 24♁ 7 | 12°57 | 13°41 | 13°35 | 6°48 | 18° 9 | |
| W 3 | 19 7 55 | 16°22'45 | 12°28 | 12°33 | 7°36 | 6°40 | 4°41 | 13° 0 | 21°12 | 24° 5 | 12°58 | 13°R41 | 13°32 | 6°55 | 18°17 | |
| T 4 | 19 11 51 | 17°20'02 | 24°38 | 13°14 | 7° 2 | 7°19 | 4°48 | 12°57 | 21°11 | 24° 4 | 12°59 | 13°41 | 13°29 | 7° 1 | 18°24 | |
| F 5 | 19 15 48 | 18°17'20 | 6♁58 | 13°51 | 6°31 | 7°58 | 4°54 | 12°54 | 21° 9 | 24° 3 | 13° 1 | 13°41 | 13°26 | 7° 8 | 18°31 | |
| S 6 | 19 19 45 | 19°14'38 | 19°31 | 14°23 | 6° 1 | 8°37 | 5° 1 | 12°51 | 21° 7 | 24° 1 | 13° 2 | 13°40 | 13°23 | 7°15 | 18°39 | |
| S 7 | 19 23 41 | 20°11'57 | 2♁16 | 14°52 | 5°32 | 9°16 | 5° 8 | 12°48 | 21° 5 | 24° 0 | 13° 3 | 13°39 | 13°20 | 7°21 | 18°46 | |
| M 8 | 19 27 38 | 21° 9'16 | 15°16 | 15°17 | 5° 6 | 9°55 | 5°15 | 12°45 | 21° 3 | 23°58 | 13° 4 | 13°39 | 13°16 | 7°28 | 18°54 | |
| T 9 | 19 31 34 | 22° 6'36 | 28°32 | 15°36 | 4°42 | 10°34 | 5°23 | 12°42 | 21° 1 | 23°57 | 13° 5 | 13°38 | 13°13 | 7°35 | 19° 1 | |
| W10 | 19 35 31 | 23° 3'56 | 12♁ 5 | 15°52 | 4°19 | 11°13 | 5°30 | 12°39 | 20°59 | 23°56 | 13° 6 | 13°37 | 13°10 | 7°41 | 19° 9 | |
| T11 | 19 39 27 | 24° 1'17 | 25°54 | 16° 2 | 3°59 | 11°52 | 5°38 | 12°36 | 20°57 | 23°54 | 13° 8 | 13°D37 | 13° 7 | 7°48 | 19°16 | |
| F12 | 19 43 24 | 24°58'38 | 10♁ 0 | 16° 8 | 3°41 | 12°31 | 5°45 | 12°34 | 20°55 | 23°53 | 13° 9 | 13°37 | 13° 4 | 7°55 | 19°24 | |
| S13 | 19 47 20 | 25°56'00 | 24°21 | 16°R 8 | 3°26 | 13°10 | 5°53 | 12°31 | 20°53 | 23°52 | 13°10 | 13°38 | 13° 1 | 8° 1 | 19°31 | |
| S14 | 19 51 17 | 26°53'23 | 8♁55 | 16° 3 | 3°13 | 13°49 | 6° 1 | 12°28 | 20°51 | 23°50 | 13°11 | 13°39 | 12°57 | 8° 8 | 19°39 | |
| M15 | 19 55 14 | 27°50'46 | 23°37 | 15°53 | 3° 2 | 14°28 | 6° 9 | 12°26 | 20°49 | 23°49 | 13°12 | 13°40 | 12°54 | 8°15 | 19°47 | |
| T16 | 19 59 10 | 28°48'11 | 8☉22 | 15°38 | 2°53 | 15° 7 | 6°17 | 12°24 | 20°46 | 23°48 | 13°13 | 13°R41 | 12°51 | 8°21 | 19°54 | |
| W17 | 20 3 7 | 29°45'36 | 23° 2 | 15°18 | 2°47 | 15°46 | 6°26 | 12°21 | 20°44 | 23°46 | 13°14 | 13°40 | 12°48 | 8°28 | 20° 2 | |
| T18 | 20 7 3 | 0♁43'02 | 7♁32 | 14°52 | 2°44 | 16°25 | 6°34 | 12°19 | 20°42 | 23°45 | 13°15 | 13°39 | 12°45 | 8°35 | 20°10 | |
| F19 | 20 11 0 | 1°40'29 | 21°45 | 14°22 | 2°D42 | 17° 3 | 6°42 | 12°17 | 20°40 | 23°44 | 13°16 | 13°38 | 12°41 | 8°41 | 20°18 | |
| S20 | 20 14 56 | 2°37'57 | 5♁37 | 13°47 | 2°43 | 17°42 | 6°51 | 12°15 | 20°38 | 23°43 | 13°17 | 13°35 | 12°38 | 8°48 | 20°26 | |
| S21 | 20 18 53 | 3°35'27 | 19° 6 | 13° 8 | 2°47 | 18°21 | 7° 0 | 12°13 | 20°35 | 23°42 | 13°18 | 13°33 | 12°35 | 8°55 | 20°33 | |
| M22 | 20 22 50 | 4°32'58 | 2♁10 | 12°26 | 2°52 | 19° 0 | 7° 9 | 12°11 | 20°33 | 23°41 | 13°19 | 13°30 | 12°32 | 9° 1 | 20°41 | |
| T23 | 20 26 46 | 5°30'30 | 14°53 | 11°40 | 3° 0 | 19°38 | 7°17 | 12° 9 | 20°31 | 23°39 | 13°20 | 13°28 | 12°29 | 9° 8 | 20°49 | |
| W24 | 20 30 43 | 6°28'04 | 27°16 | 10°53 | 3°10 | 20°17 | 7°27 | 12° 8 | 20°28 | 23°38 | 13°21 | 13°26 | 12°26 | 9°15 | 20°57 | |
| T25 | 20 34 39 | 7°25'39 | 9♁23 | 10° 3 | 3°22 | 20°56 | 7°36 | 12° 6 | 20°26 | 23°37 | 13°22 | 13°D26 | 12°22 | 9°21 | 21° 5 | |
| F26 | 20 38 36 | 8°23'16 | 21°20 | 9°14 | 3°36 | 21°34 | 7°45 | 12° 5 | 20°24 | 23°36 | 13°23 | 13°27 | 12°19 | 9°28 | 21°13 | |
| S27 | 20 42 32 | 9°20'55 | 3♁11 | 8°24 | 3°53 | 22°13 | 7°54 | 12° 3 | 20°22 | 23°35 | 13°24 | 13°28 | 12°16 | 9°35 | 21°21 | |
| S28 | 20 46 29 | 10°18'35 | 15° 0 | 7°36 | 4°11 | 22°51 | 8° 4 | 12° 2 | 20°19 | 23°34 | 13°24 | 13°30 | 12°13 | 9°41 | 21°29 | |
| M29 | 20 50 25 | 11°16'16 | 26°53 | 6°51 | 4°30 | 23°30 | 8°13 | 12° 1 | 20°17 | 23°33 | 13°25 | 13°31 | 12°10 | 9°48 | 21°37 | |
| T30 | 20 54 22 | 12°13'59 | 8☉52 | 6° 8 | 4°52 | 24° 8 | 8°23 | 11°59 | 20°14 | 23°32 | 13°26 | 13°R32 | 12° 7 | 9°55 | 21°45 | |
| W31 | 20 58 18 | 13♁11'44 | 21☉ 3 | 5♁30 | 5☉15 | 24☉47 | 8♁33 | 11♁58 | 20♁12 | 23♁31 | 13♁27 | 13☉32 | 12☉ 3 | 10♁ 1 | 21♁53 | |

Delta T = 14m04s Julian Calendar 1 July 1163 == Greg. Calendar 8 July 1163

AUGUST 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|-----|----------|----------|-------|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|-------|-------|---|
| T 1 | 21 2 15 | 14♁ 9'30 | 3♁26 | 4°R57 | 5☉41 | 25☉25 | 8♁42 | 11°R58 | 20°R10 | 23°R31 | 13♁28 | 13°R31 | 12☉ 0 | 10♁ 8 | 22♁ 1 | |
| F 2 | 21 6 12 | 15° 7'18 | 16° 4 | 4♁29 | 6° 7 | 26° 4 | 8°52 | 11♁57 | 20♁ 7 | 23♁30 | 13°28 | 13☉28 | 11°57 | 10°15 | 22° 9 | |
| S 3 | 21 10 8 | 16° 5'07 | 28°56 | 4° 8 | 6°35 | 26°42 | 9° 2 | 11°56 | 20° 5 | 23°29 | 13°29 | 13°23 | 11°54 | 10°21 | 22°17 | |
| S 4 | 21 14 5 | 17° 2'58 | 12♁ 4 | 3°54 | 7° 5 | 27°20 | 9°13 | 11°55 | 20° 3 | 23°28 | 13°30 | 13°18 | 11°51 | 10°28 | 22°25 | |
| M 5 | 21 18 1 | 18° 0'49 | 25°26 | 3°D47 | 7°36 | 27°59 | 9°23 | 11°55 | 20° 0 | 23°27 | 13°31 | 13°12 | 11°47 | 10°35 | 22°33 | |
| T 6 | 21 21 58 | 18°58'43 | 9♁ 0 | 3°48 | 8° 9 | 28°37 | 9°33 | 11°54 | 19°58 | 23°27 | 13°31 | 13° 7 | 11°44 | 10°41 | 22°42 | |
| W 7 | 21 25 54 | 19°56'37 | 22°46 | 3°56 | 8°43 | 29°15 | 9°43 | 11°54 | 19°55 | 23°26 | 13°32 | 13° 3 | 11°41 | 10°48 | 22°50 | |
| T 8 | 21 29 51 | 20°54'33 | 6♁41 | 4°13 | 9°18 | 29°54 | 9°54 | 11°54 | 19°53 | 23°25 | 13°33 | 13° 1 | 11°38 | 10°55 | 22°58 | |
| F 9 | 21 33 47 | 21°52'30 | 20°44 | 4°38 | 9°55 | 0♁32 | 10° 4 | 11°53 | 19°51 | 23°24 | 13°33 | 13°D 0 | 11°35 | 11° 1 | 23° 6 | |
| S10 | 21 37 44 | 22°50'29 | 4♁54 | 5°10 | 10°32 | 1°10 | 10°15 | 11°D53 | 19°48 | 23°24 | 13°34 | 13° 0 | 11°32 | 11° 8 | 23°14 | |
| S11 | 21 41 41 | 23°48'29 | 19° 9 | 5°51 | 11°11 | 1°48 | 10°26 | 11°53 | 19°46 | 23°23 | 13°35 | 13° 2 | 11°28 | 11°15 | 23°22 | |
| M12 | 21 45 37 | 24°46'30 | 3☉28 | 6°39 | 11°51 | 2°26 | 10°37 | 11°53 | 19°43 | 23°23 | 13°35 | 13° 3 | 11°25 | 11°21 | 23°30 | |
| T13 | 21 49 34 | 25°44'33 | 17°46 | 7°35 | 12°32 | 3° 5 | 10°47 | 11°54 | 19°41 | 23°22 | 13°36 | 13°R 3 | 11°22 | 11°28 | 23°38 | |
| W14 | 21 53 30 | 26°42'37 | 2♁ 2 | 8°38 | 13°14 | 3°43 | 10°58 | 11°54 | 19°39 | 23°22 | 13°36 | 13° 2 | 11°19 | 11°35 | 23°47 | |
| T15 | 21 57 27 | 27°40'43 | 16°10 | 9°47 | 13°57 | 4°21 | 11° 9 | 11°54 | 19°36 | 23°21 | 13°37 | 12°58 | 11°16 | 11°41 | 23°55 | |
| F16 | 22 1 23 | 28°38'51 | 0♁ 6 | 11° 3 | 14°41 | 4°59 | 11°21 | 11°55 | 19°34 | 23°21 | 13°37 | 12°53 | 11°13 | 11°48 | 24° 3 | |
| S17 | 22 5 20 | 29°37'00 | 13°46 | 12°24 | 15°26 | 5°37 | 11°32 | 11°55 | 19°32 | 23°20 | 13°38 | 12°45 | 11° 9 | 11°55 | 24°11 | |
| S18 | 22 9 16 | 0♁35'11 | 27° 8 | 13°51 | 16°12 | 6°15 | 11°43 | 11°56 | 19°29 | 23°20 | 13°38 | 12°37 | 11° 6 | 12° 1 | 24°19 | |
| M19 | 22 13 13 | 1°33'24 | 10♁ 9 | 15°23 | 16°59 | 6°53 | 11°54 | 11°57 | 19°27 | 23°20 | 13°39 | 12°29 | 11° 3 | 12° 8 | 24°27 | |
| T20 | 22 17 10 | 2°31'39 | 22°50 | 16°58 | 17°46 | 7°31 | 12° 6 | 11°58 | 19°25 | 23°19 | 13°39 | 12°22 | 11° 0 | 12°15 | 24°35 | |
| W21 | 22 21 6 | 3°29'56 | 5♁13 | 18°38 | 18°35 | 8° 9 | 12°17 | 11°59 | 19°22 | 23°19 | 13°39 | 12°16 | 10°57 | 12°21 | 24°43 | |
| T22 | 22 25 3 | 4°28'15 | 17°21 | 20°21 | 19°24 | 8°47 | 12°29 | 12° 0 | 19°20 | 23°19 | 13°40 | 12°12 | 10°53 | 12°28 | 24°51 | |
| F23 | 22 28 59 | 5°26'36 | 29°18 | 22° 6 | 20°14 | 9°25 | 12°40 | 12° 1 | 19°18 | 23°18 | 13°40 | 12°11 | 10°50 | 12°35 | 24°59 | |
| S24 | 22 32 56 | 6°25'00 | 11♁ 8 | 23°54 | 21° 5 | 10° 2 | 12°52 | 12° 2 | 19°15 | 23°18 | 13°40 | 12°D11 | 10°47 | 12°41 | 25° 8 | |
| S25 | 22 36 52 | 7°23'25 | 22°57 | 25°43 | 21°56 | 10°40 | 13° 3 | 12° 4 | 19°13 | 23°18 | 13°41 | 12°11 | 10°44 | 12°48 | 25°16 | |
| M26 | 22 40 49 | 8°21'53 | 4☉51 | 27°34 | 22°48 | 11°18 | 13°15 | 12° 5 | 19°11 | 23°18 | 13°41 | 12°12 | 10°41 | 12°55 | 25°24 | |
| T27 | 22 44 45 | 9°20'23 | 16°54 | 29°25 | 23°41 | 11°56 | 13°27 | 12° 7 | 19° 9 | 23°18 | 13°41 | 12°R13 | 10°38 | 13° 1 | 25°32 | |
| W28 | 22 48 42 | 10°18'55 | 29°11 | 1♁18 | 24°35 | 12°34 | 13°39 | 12° 8 | 19° 7 | 23°18 | 13°42 | 12°11 | 10°34 | 13° 8 | 25°40 | |
| T29 | 22 52 39 | 11°17'30 | 11♁45 | 3°10 | 25°29 | 13°12 | 13°51 | 12°10 | 19° 4 | 23°18 | 13°42 | 12° 7 | 10°31 | 13°15 | 25°48 | |
| F30 | 22 56 35 | 12°16'06 | 24°39 | 5° 3 | 26°23 | 13°49 | 14° 3 | 12°12 | 19° 2 | 23°D18 | 13°42 | 12° 1 | 10°28 | 13°21 | 25°56 | |
| S31 | 23 0 32 | 13♁14'44 | 7♁52 | 6♁56 | 27☉18 | 14♁27 | 14♁15 | 12♁14 | 19♁ 0 | 23♁18 | 13♁42 | 11☉52 | 10☉25 | 13♁28 | 26♁ 4 | |

Delta T = 14m04s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1163

SEPTEMBER 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|----------|------------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---|---|
| S 1 | 23 4 28 | 14 ^h 13'25" | 21 ^h 24' | 8 ^h 48' | 28 ^h 14' | 15 ^h 05' | 14 ^h 27' | 12 ^h 16' | 18 ^h 58' | 23 ^h 18' | 13 ^h 42' | 11 ^h 42' | 10 ^h 22' | 13 ^h 35' | 26 ^h 12' | | |
| M 2 | 23 8 25 | 15°12'07" | 5 ^h 12' | 10°40' | 29°10' | 15°43' | 14°39' | 12°18' | 18 ^h 56' | 23°18' | 13°42' | 11 ^h 32' | 10°18' | 13°41' | 26°19' | | |
| T 3 | 23 12 21 | 16°10'51" | 19°12' | 12°32' | 0 ^h 07' | 16°20' | 14°51' | 12°20' | 18°54' | 23°18' | 13°42' | 11°22' | 10°15' | 13°48' | 26°27' | | |
| W 4 | 23 16 18 | 17° 9'37" | 3 ^h 11' | 14°23' | 1° 4' | 16°58' | 15° 3' | 12°23' | 18°52' | 23°18' | 13°43' | 11°14' | 10°12' | 13°55' | 26°35' | | |
| T 5 | 23 20 14 | 18° 8'25" | 17°32' | 16°13' | 2° 2' | 17°35' | 15°16' | 12°25' | 18°50' | 23°18' | 13°43' | 11° 8' | 10° 9' | 14° 1' | 26°43' | | |
| F 6 | 23 24 11 | 19° 7'15" | 1 ^h 44' | 18° 3' | 3° 0' | 18°13' | 15°28' | 12°27' | 18°48' | 23°19' | 13°43' | 11° 4' | 10° 6' | 14° 8' | 26°51' | | |
| S 7 | 23 28 8 | 20° 6'06" | 15°54' | 19°51' | 3°59' | 18°51' | 15°40' | 12°30' | 18°46' | 23°19' | 13°43' | 11°D 3' | 10° 3' | 14°15' | 26°59' | | |
| S 8 | 23 32 4 | 21° 5'00" | 0 ^h 03' | 21°39' | 4°58' | 19°28' | 15°53' | 12°33' | 18°44' | 23°19' | 13°43' | 11° 3' | 9°59' | 14°21' | 27° 6' | | |
| M 9 | 23 36 1 | 22° 3'55" | 14° 1' | 23°26' | 5°58' | 20° 6' | 16° 5' | 12°35' | 18°42' | 23°19' | 13°43' | 11°R 3' | 9°56' | 14°28' | 27°14' | | |
| T 10 | 23 39 57 | 23° 2'52" | 27°57' | 25°12' | 6°58' | 20°43' | 16°18' | 12°38' | 18°40' | 23°20' | 13°43' | 11° 2' | 9°53' | 14°35' | 27°22' | | |
| W11 | 23 43 54 | 24° 1'50" | 11 ^h 47' | 26°57' | 7°58' | 21°21' | 16°30' | 12°41' | 18°38' | 23°20' | 13°43' | 10°59' | 9°50' | 14°41' | 27°30' | | |
| T 12 | 23 47 50 | 25° 0'51" | 25°29' | 28°41' | 8°59' | 21°58' | 16°43' | 12°44' | 18°37' | 23°21' | 13°42' | 10°53' | 9°47' | 14°48' | 27°37' | | |
| F 13 | 23 51 47 | 25°59'53" | 9 ^h 12' | 0 ^h 25' | 10° 0' | 22°36' | 16°56' | 12°47' | 18°35' | 23°21' | 13°42' | 10°44' | 9°44' | 14°55' | 27°45' | | |
| S 14 | 23 55 43 | 26°58'57" | 22°22' | 2° 7' | 11° 2' | 23°13' | 17° 8' | 12°51' | 18°33' | 23°22' | 13°42' | 10°33' | 9°40' | 15° 1' | 27°52' | | |
| S 15 | 23 59 40 | 27°58'03" | 5 ^h 18' | 3°49' | 12° 3' | 23°50' | 17°21' | 12°54' | 18°32' | 23°22' | 13°42' | 10°20' | 9°37' | 15° 8' | 28° 0' | | |
| M16 | 0 3 37 | 28°57'12" | 18°28' | 5°30' | 13° 6' | 24°28' | 17°34' | 12°57' | 18°30' | 23°23' | 13°42' | 10° 8' | 9°34' | 15°14' | 28° 7' | | |
| T 17 | 0 7 33 | 29°56'22" | 0 ^h 52' | 7°10' | 14° 8' | 25° 5' | 17°46' | 13° 1' | 18°28' | 23°23' | 13°42' | 9°56' | 9°31' | 15°21' | 28°15' | | |
| W18 | 0 11 30 | 0 ^h 55'35" | 13°10' | 8°49' | 15°11' | 25°42' | 17°59' | 13° 4' | 18°27' | 23°24' | 13°41' | 9°46' | 9°28' | 15°28' | 28°22' | | |
| T 19 | 0 15 26 | 1°54'50" | 25°15' | 10°28' | 16°15' | 26°20' | 18°12' | 13° 8' | 18°25' | 23°24' | 13°41' | 9°38' | 9°24' | 15°34' | 28°30' | | |
| F 20 | 0 19 23 | 2°54'08" | 7 ^h 11' | 12° 5' | 17°18' | 26°57' | 18°25' | 13°12' | 18°24' | 23°25' | 13°41' | 9°34' | 9°21' | 15°41' | 28°37' | | |
| S 21 | 0 23 19 | 3°53'28" | 18°59' | 13°42' | 18°22' | 27°34' | 18°38' | 13°15' | 18°22' | 23°26' | 13°41' | 9°31' | 9°18' | 15°48' | 28°44' | | |
| S 22 | 0 27 16 | 4°52'50" | 0 ^h 47' | 15°18' | 19°26' | 28°11' | 18°51' | 13°19' | 18°21' | 23°27' | 13°40' | 9°31' | 9°15' | 15°54' | 28°52' | | |
| M23 | 0 31 12 | 5°52'14" | 12°40' | 16°54' | 20°31' | 28°49' | 19° 4' | 13°23' | 18°19' | 23°27' | 13°40' | 9°31' | 9°12' | 16° 1' | 28°59' | | |
| T 24 | 0 35 9 | 6°51'41" | 24°43' | 18°29' | 21°36' | 29°26' | 19°16' | 13°27' | 18°18' | 23°28' | 13°40' | 9°30' | 9° 9' | 16° 8' | 29° 6' | | |
| W25 | 0 39 5 | 7°51'10" | 7 ^h 02' | 20° 3' | 22°41' | 0 ^h 13' | 19°29' | 13°31' | 18°17' | 23°29' | 13°39' | 9°28' | 9° 5' | 16°14' | 29°13' | | |
| T 26 | 0 43 2 | 8°50'42" | 19°40' | 21°36' | 23°46' | 0°40' | 19°42' | 13°35' | 18°15' | 23°30' | 13°39' | 9°23' | 9° 2' | 16°21' | 29°20' | | |
| F 27 | 0 46 59 | 9°50'16" | 2 ^h 42' | 23° 9' | 24°52' | 1°17' | 19°55' | 13°40' | 18°14' | 23°31' | 13°38' | 9°16' | 8°59' | 16°28' | 29°27' | | |
| S 28 | 0 50 55 | 10°49'52" | 16° 9' | 24°41' | 25°58' | 1°54' | 20° 8' | 13°44' | 18°13' | 23°32' | 13°38' | 9° 6' | 8°56' | 16°34' | 29°34' | | |
| S 29 | 0 54 52 | 11°49'30" | 0 ^h 00' | 26°12' | 27° 4' | 2°31' | 20°22' | 13°48' | 18°12' | 23°33' | 13°38' | 8°55' | 8°53' | 16°41' | 29°41' | | |
| M30 | 0 58 48 | 12°49'10" | 14 ^h 11' | 27°43' | 28°10' | 3 ^h 18' | 20°35' | 13°53' | 18°11' | 23°34' | 13°37' | 8°54' | 8°50' | 16°48' | 29°48' | | |

Delta T = 14m03s Julian Calendar 1 Sept. 1163 == Greg. Calendar 8 Sept. 1163

OCTOBER 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ |
|------|---------|------------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|--------|---------------------|--------|-------|---------------------|---------------------|---|---|
| T 1 | 1 2 45 | 13 ^h 48'52" | 28 ^h 38' | 29 ^h 13' | 29 ^h 01' | 3 ^h 45' | 20 ^h 48' | 13 ^h 57' | 18°R10' | 23°35' | 13°R37' | 8°R31' | 8°46' | 16 ^h 54' | 29 ^h 55' | | |
| W 2 | 1 6 41 | 14°48'37" | 13 ^h 11' | 0 ^h 42' | 0 ^h 24' | 4°22' | 21° 1' | 14° 2' | 18 ^h 9' | 23°36' | 13 ^h 36' | 8°21' | 8°43' | 17° 1' | 0 ^h 11' | | |
| T 3 | 1 10 38 | 15°48'23" | 27°50' | 2°11' | 1°31' | 4°59' | 21°14' | 14° 7' | 18° 8' | 23°37' | 13°36' | 8°13' | 8°40' | 17° 8' | 0° 8' | | |
| F 4 | 1 14 34 | 16°48'11" | 12 ^h 11' | 3°39' | 2°38' | 5°36' | 21°27' | 14°12' | 18° 7' | 23°38' | 13°35' | 8° 9' | 8°37' | 17°14' | 0°15' | | |
| S 5 | 1 18 31 | 17°48'01" | 26°43' | 5° 7' | 3°46' | 6°13' | 21°40' | 14°16' | 18° 6' | 23°39' | 13°34' | 8° 7' | 8°34' | 17°21' | 0°21' | | |
| S 6 | 1 22 28 | 18°47'53" | 10 ^h 53' | 6°34' | 4°53' | 6°50' | 21°53' | 14°21' | 18° 5' | 23°40' | 13°34' | 8° 7' | 8°30' | 17°28' | 0°28' | | |
| M 7 | 1 26 24 | 19°47'46" | 24°50' | 8° 0' | 6° 1' | 7°27' | 22° 6' | 14°26' | 18° 4' | 23°42' | 13°33' | 8° 7' | 8°27' | 17°34' | 0°34' | | |
| T 8 | 1 30 21 | 20°47'41" | 8 ^h 34' | 9°25' | 7° 9' | 8° 4' | 22°19' | 14°31' | 18° 4' | 23°43' | 13°33' | 8° 6' | 8°24' | 17°41' | 0°41' | | |
| W 9 | 1 34 17 | 21°47'38" | 22° 6' | 10°50' | 8°18' | 8°41' | 22°33' | 14°36' | 18° 3' | 23°44' | 13°32' | 8° 3' | 8°21' | 17°48' | 0°47' | | |
| T 10 | 1 38 14 | 22°47'36" | 5 ^h 12' | 12°13' | 9°26' | 9°17' | 22°46' | 14°42' | 18° 2' | 23°45' | 13°31' | 7°57' | 8°18' | 17°54' | 0°53' | | |
| F 11 | 1 42 10 | 23°47'36" | 18°35' | 13°36' | 10°35' | 9°54' | 22°59' | 14°47' | 18° 2' | 23°47' | 13°31' | 7°48' | 8°15' | 18° 1' | 0°59' | | |
| S 12 | 1 46 7 | 24°47'37" | 1 ^h 33' | 14°58' | 11°44' | 10°31' | 23°12' | 14°52' | 18° 1' | 23°48' | 13°30' | 7°37' | 8°11' | 18° 8' | 1° 5' | | |
| S 13 | 1 50 3 | 25°47'41" | 14°19' | 16°20' | 12°53' | 11° 8' | 23°25' | 14°57' | 18° 1' | 23°50' | 13°29' | 7°24' | 8° 8' | 18°14' | 1°11' | | |
| M14 | 1 54 0 | 26°47'46" | 26°52' | 17°40' | 14° 2' | 11°44' | 23°38' | 15° 3' | 18° 0' | 23°51' | 13°28' | 7°11' | 8° 5' | 18°21' | 1°17' | | |
| T 15 | 1 57 57 | 27°47'53" | 9 ^h 14' | 18°59' | 15°11' | 12°21' | 23°51' | 15° 8' | 18° 0' | 23°52' | 13°28' | 6°59' | 8° 2' | 18°27' | 1°23' | | |
| W16 | 2 1 53 | 28°48'02" | 21°24' | 20°16' | 16°21' | 12°57' | 24° 5' | 15°14' | 18° 0' | 23°54' | 13°27' | 6°49' | 7°59' | 18°34' | 1°29' | | |
| T 17 | 2 5 50 | 29°48'13" | 3 ^h 23' | 21°33' | 17°31' | 13°34' | 24°18' | 15°19' | 18° 0' | 23°55' | 13°26' | 6°41' | 7°55' | 18°41' | 1°35' | | |
| F 18 | 2 9 46 | 0 ^h 48'26" | 15°15' | 22°48' | 18°41' | 14°11' | 24°31' | 15°25' | 17°59' | 23°57' | 13°25' | 6°36' | 7°52' | 18°47' | 1°41' | | |
| S 19 | 2 13 43 | 1°48'42" | 27° 2' | 24° 1' | 19°51' | 14°47' | 24°44' | 15°31' | 17°59' | 23°58' | 13°24' | 6°34' | 7°49' | 18°54' | 1°46' | | |
| S 20 | 2 17 39 | 2°48'59" | 8 ^h 49' | 25°12' | 21° 1' | 15°24' | 24°57' | 15°36' | 17°59' | 24° 0' | 13°24' | 6°D33' | 7°46' | 19° 1' | 1°52' | | |
| M21 | 2 21 36 | 3°49'18" | 20°40' | 26°21' | 22°11' | 16° 0' | 25°10' | 15°42' | 17°59' | 24° 2' | 13°23' | 6°34' | 7°43' | 19° 7' | 1°57' | | |
| T 22 | 2 25 32 | 4°49'39" | 2 ^h 41' | 27°28' | 23°22' | 16°36' | 25°23' | 15°48' | 17°D59' | 24° 3' | 13°22' | 6°R34' | 7°40' | 19°14' | 2° 3' | | |
| W23 | 2 29 29 | 5°50'02" | 14°57' | 28°33' | 24°32' | 17°13' | 25°36' | 15°54' | 17°59' | 24° 5' | 13°21' | 6°34' | 7°36' | 19°21' | 2° 8' | | |
| T 24 | 2 33 26 | 6°50'27" | 27°33' | 29°34' | 25°43' | 17°49' | 25°49' | 16° 0' | 17°59' | 24° 6' | 13°20' | 6°32' | 7°33' | 19°27' | 2°13' | | |
| F 25 | 2 37 22 | 7°50'54" | 10 ^h 34' | 0 ^h 33' | 26°54' | 18°26' | 26° 2' | 16° 6' | 17°59' | 24° 8' | 13°19' | 6°27' | 7°30' | 19°34' | 2°18' | | |
| S 26 | 2 41 19 | 8°51'23" | 24° 2' | 1°27' | 28° 5' | 19° 2' | 26°15' | 16°12' | 17°59' | 24°10' | 13°18' | 6°20' | 7°27' | 19°41' | 2°23' | | |
| S 27 | 2 45 15 | 9°51'54" | 7 ^h 59' | 2°18' | 29°16' | 19°38' | 26°28' | 16°18' | 18° 0' | 24°12' | 13°17' | 6°12' | 7°24' | 19°47' | 2°28' | | |
| M28 | 2 49 12 | 10°52'27" | 22°22' | 3° 4' | 0 ^h 27' | 20°14' | 26°41' | 16°24' | 18° 0' | 24°13' | 13°16' | 6° 3' | 7°21' | 19°54' | 2°33' | | |
| T 29 | 2 53 8 | 11°53'01" | 7 ^h 11' | 3°44' | 1°39' | 20°51' | 26°54' | 16°31' | 18° 0' | 24°15' | 13°15' | 5°54' | 7°17' | 20° 1' | 2°38' | | |
| W30 | 2 57 5 | 12°53'37" | 22° 3' | 4°19' | 2°50' | 21°27' | 27° 7' | 16°37' | 18° 1' | 24°17' | 13°14' | 5°46' | 7°14' | 20° 7' | 2°43' | | |
| T 31 | 3 1 1 | 13 ^h 54'14" | 7 ^h 47' | 4°47' | 4 ^h 2' | 22 ^h 3' | 27°20' | 16°43' | 18 ^h 1' | 24°19' | 13 ^h 13' | 5°41' | 7°11' | 20 ^h 14' | 2 ^h 47' | | |

Delta T = 14m03s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1163

NOVEMBER 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|---|
| F 1 | 3 4 58 | 14M.54'53 | 22A 0 | 5A 8 | 5A 14 | 22M.39 | 27A.33 | 16A.49 | 18A 1 | 24A.21 | 13R.12 | 5R.38 | 7E 8 | 20M.21 | 2M.52 | |
| S 2 | 3 8 55 | 15°55'34 | 6B.43 | 5°20 | 6°25 | 23°15 | 27°46 | 16°56 | 18° 2 | 24°22 | 13M.11 | 5°D37 | 7° 5 | 20°27 | 2°56 | |
| S 3 | 3 12 51 | 16°56'15 | 21° 9 | 5R.24 | 7°37 | 23°51 | 27°59 | 17° 2 | 18° 3 | 24°24 | 13°10 | 5E.38 | 7° 1 | 20°34 | 3° 0 | |
| M 4 | 3 16 48 | 17°56'58 | 5A.15 | 5°19 | 8°49 | 24°27 | 28°12 | 17° 9 | 18° 3 | 24°26 | 13° 9 | 5°39 | 6°58 | 20°41 | 3° 5 | |
| T 5 | 3 20 44 | 18°57'41 | 19° 0 | 5° 3 | 10° 1 | 25° 3 | 28°24 | 17°15 | 18° 4 | 24°28 | 13° 8 | 5R.39 | 6°55 | 20°47 | 3° 9 | |
| W 6 | 3 24 41 | 19°58'26 | 2A.26 | 4°36 | 11°14 | 25°39 | 28°37 | 17°22 | 18° 5 | 24°30 | 13° 7 | 5°39 | 6°52 | 20°54 | 3°13 | |
| T 7 | 3 28 37 | 20°59'12 | 15°35 | 3°59 | 12°26 | 26°15 | 28°50 | 17°28 | 18° 5 | 24°32 | 13° 6 | 5°36 | 6°49 | 21° 0 | 3°17 | |
| F 8 | 3 32 34 | 21°59'58 | 28°28 | 3°11 | 13°38 | 26°51 | 29° 2 | 17°35 | 18° 6 | 24°34 | 13° 5 | 5°31 | 6°46 | 21° 7 | 3°21 | |
| S 9 | 3 36 30 | 23° 0'46 | 11Y 7 | 2°12 | 14°51 | 27°26 | 29°15 | 17°41 | 18° 7 | 24°36 | 13° 4 | 5°24 | 6°42 | 21°14 | 3°24 | |
| S 10 | 3 40 27 | 24° 1'35 | 23°35 | 1° 5 | 16° 3 | 28° 2 | 29°27 | 17°48 | 18° 8 | 24°38 | 13° 3 | 5°17 | 6°39 | 21°20 | 3°28 | |
| M11 | 3 44 24 | 25° 2'25 | 5B.52 | 29M.51 | 17°16 | 28°38 | 29°40 | 17°55 | 18° 9 | 24°40 | 13° 2 | 5° 9 | 6°36 | 21°27 | 3°31 | |
| T 12 | 3 48 20 | 26° 3'16 | 18° 0 | 28°31 | 18°29 | 29°14 | 29°53 | 18° 1 | 18°10 | 24°42 | 13° 0 | 5° 1 | 6°33 | 21°34 | 3°35 | |
| W13 | 3 52 17 | 27° 4'08 | 0M 0 | 27° 8 | 19°41 | 29°49 | 0M. 5 | 18° 8 | 18°11 | 24°44 | 12°59 | 4°55 | 6°30 | 21°40 | 3°38 | |
| T 14 | 3 56 13 | 28° 5'01 | 11°53 | 25°46 | 20°54 | 0A.25 | 0°17 | 18°15 | 18°12 | 24°46 | 12°58 | 4°51 | 6°27 | 21°47 | 3°41 | |
| F 15 | 4 0 10 | 29° 5'56 | 23°42 | 24°27 | 22° 7 | 1° 0 | 0°30 | 18°22 | 18°14 | 24°48 | 12°57 | 4°48 | 6°23 | 21°54 | 3°45 | |
| S 16 | 4 4 6 | 0A 6'52 | 5E.29 | 23°13 | 23°20 | 1°36 | 0°42 | 18°28 | 18°15 | 24°50 | 12°56 | 4°D48 | 6°20 | 22° 0 | 3°48 | |
| S 17 | 4 8 3 | 1° 7'49 | 17°16 | 22° 6 | 24°33 | 2°11 | 0°54 | 18°35 | 18°16 | 24°53 | 12°55 | 4°48 | 6°17 | 22° 7 | 3°51 | |
| M18 | 4 11 59 | 2° 8'47 | 29° 8 | 21° 9 | 25°46 | 2°47 | 1° 6 | 18°42 | 18°18 | 24°55 | 12°54 | 4°50 | 6°14 | 22°14 | 3°53 | |
| T 19 | 4 15 56 | 3° 9'46 | 11N 9 | 20°23 | 27° 0 | 3°22 | 1°19 | 18°49 | 18°19 | 24°57 | 12°52 | 4°52 | 6°11 | 22°20 | 3°56 | |
| W20 | 4 19 53 | 4°10'47 | 23°23 | 19°48 | 28°13 | 3°57 | 1°31 | 18°56 | 18°20 | 24°59 | 12°51 | 4°53 | 6° 7 | 22°27 | 3°59 | |
| T 21 | 4 23 49 | 5°11'49 | 5M.55 | 19°24 | 29°26 | 4°33 | 1°43 | 19° 3 | 18°22 | 25° 1 | 12°50 | 4R.54 | 6° 4 | 22°34 | 4° 1 | |
| F 22 | 4 27 46 | 6°12'51 | 18°49 | 19°12 | 0M.40 | 5° 8 | 1°55 | 19°10 | 18°23 | 25° 3 | 12°49 | 4°53 | 6° 1 | 22°40 | 4° 4 | |
| S 23 | 4 31 42 | 7°13'55 | 2A.10 | 19°D10 | 1°53 | 5°43 | 2° 7 | 19°17 | 18°25 | 25° 5 | 12°48 | 4°51 | 5°58 | 22°47 | 4° 6 | |
| S 24 | 4 35 39 | 8°15'00 | 16° 0 | 19°18 | 3° 7 | 6°18 | 2°19 | 19°24 | 18°27 | 25° 8 | 12°47 | 4°48 | 5°55 | 22°54 | 4° 8 | |
| M25 | 4 39 35 | 9°16'06 | 0M.18 | 19°35 | 4°20 | 6°53 | 2°30 | 19°31 | 18°28 | 25°10 | 12°45 | 4°44 | 5°52 | 23° 0 | 4°10 | |
| T 26 | 4 43 32 | 10°17'13 | 15° 1 | 20° 1 | 5°34 | 7°28 | 2°42 | 19°38 | 18°30 | 25°12 | 12°44 | 4°41 | 5°48 | 23° 7 | 4°12 | |
| W27 | 4 47 28 | 11°18'21 | 0A 3 | 20°34 | 6°48 | 8° 3 | 2°54 | 19°45 | 18°32 | 25°14 | 12°43 | 4°37 | 5°45 | 23°13 | 4°14 | |
| T 28 | 4 51 25 | 12°19'29 | 15°15 | 21°14 | 8° 2 | 8°38 | 3° 5 | 19°52 | 18°34 | 25°16 | 12°42 | 4°35 | 5°42 | 23°20 | 4°15 | |
| F 29 | 4 55 22 | 13°20'39 | 0B.28 | 22° 0 | 9°15 | 9°13 | 3°17 | 19°59 | 18°35 | 25°19 | 12°41 | 4°D34 | 5°39 | 23°27 | 4°17 | |
| S 30 | 4 59 18 | 14A.21'48 | 15B.31 | 22M.51 | 10M.29 | 9A.48 | 3M.29 | 20A 6 | 18A.37 | 25A.21 | 12M.40 | 4E.35 | 5E.36 | 23M.33 | 4M.19 | |

Delta T = 14m03s

Julian Calendar 1 Nov. 1163 == Greg. Calendar 8 Nov. 1163

DECEMBER 1163 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|-----------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|-------|---|
| S 1 | 5 3 15 | 15A.22'58 | 0A.17 | 23M.47 | 11M.43 | 10A.22 | 3M.40 | 20A.13 | 18A.39 | 25A.23 | 12R.38 | 4E.36 | 5E.33 | 23M.40 | 4M.20 | |
| M 2 | 5 7 11 | 16°24'08 | 14°40 | 24°47 | 12°57 | 10°57 | 3°51 | 20°20 | 18°41 | 25°25 | 12M.37 | 4°37 | 5°29 | 23°47 | 4°21 | |
| T 3 | 5 11 8 | 17°25'19 | 28°38 | 25°51 | 14°11 | 11°32 | 4° 3 | 20°27 | 18°43 | 25°28 | 12°36 | 4°38 | 5°26 | 23°53 | 4°22 | |
| W 4 | 5 15 4 | 18°26'29 | 12A.11 | 26°57 | 15°25 | 12° 6 | 4°14 | 20°34 | 18°45 | 25°30 | 12°35 | 4°39 | 5°23 | 24° 0 | 4°23 | |
| T 5 | 5 19 1 | 19°27'40 | 20°20 | 28° 7 | 16°39 | 12°41 | 4°25 | 20°41 | 18°47 | 25°32 | 12°34 | 4R.39 | 5°20 | 24° 7 | 4°24 | |
| F 6 | 5 22 57 | 20°28'50 | 8Y 8 | 29°19 | 17°53 | 13°15 | 4°36 | 20°48 | 18°50 | 25°34 | 12°33 | 4°38 | 5°17 | 24°13 | 4°25 | |
| S 7 | 5 26 54 | 21°30'01 | 20°38 | 0A.33 | 19° 7 | 13°49 | 4°47 | 20°55 | 18°52 | 25°37 | 12°31 | 4°37 | 5°13 | 24°20 | 4°26 | |
| S 8 | 5 30 51 | 22°31'11 | 2B.54 | 1°49 | 20°21 | 14°24 | 4°58 | 21° 2 | 18°54 | 25°39 | 12°30 | 4°35 | 5°10 | 24°27 | 4°26 | |
| M 9 | 5 34 47 | 23°32'22 | 14°59 | 3° 6 | 21°35 | 14°58 | 5° 8 | 21° 9 | 18°56 | 25°41 | 12°29 | 4°33 | 5° 7 | 24°33 | 4°27 | |
| T 10 | 5 38 44 | 24°33'33 | 26°57 | 4°26 | 22°49 | 15°32 | 5°19 | 21°16 | 18°59 | 25°44 | 12°28 | 4°32 | 5° 4 | 24°40 | 4°27 | |
| W11 | 5 42 40 | 25°34'43 | 8M.48 | 5°46 | 24° 4 | 16° 6 | 5°30 | 21°23 | 19° 1 | 25°46 | 12°27 | 4°31 | 5° 1 | 24°47 | 4°27 | |
| T 12 | 5 46 37 | 26°35'54 | 20°37 | 7° 8 | 25°18 | 16°40 | 5°40 | 21°30 | 19° 3 | 25°48 | 12°26 | 4°30 | 4°58 | 24°53 | 4R.27 | |
| F 13 | 5 50 33 | 27°37'05 | 2E.25 | 8°30 | 26°32 | 17°14 | 5°51 | 21°37 | 19° 6 | 25°50 | 12°24 | 4°D30 | 4°54 | 25° 0 | 4°27 | |
| S 14 | 5 54 30 | 28°38'16 | 14°14 | 9°54 | 27°46 | 17°48 | 6° 1 | 21°44 | 19° 8 | 25°53 | 12°23 | 4°30 | 4°51 | 25° 6 | 4°27 | |
| S 15 | 5 58 26 | 29°39'27 | 26° 6 | 11°19 | 29° 1 | 18°22 | 6°11 | 21°52 | 19°11 | 25°55 | 12°22 | 4°30 | 4°48 | 25°13 | 4°27 | |
| M16 | 6 2 23 | 0B.40'38 | 8N 4 | 12°44 | 0A.15 | 18°56 | 6°21 | 21°59 | 19°13 | 25°57 | 12°21 | 4°30 | 4°45 | 25°20 | 4°27 | |
| T 17 | 6 6 20 | 1°41'49 | 20°11 | 14°10 | 1°30 | 19°29 | 6°31 | 22° 6 | 19°16 | 25°59 | 12°20 | 4°31 | 4°42 | 25°26 | 4°26 | |
| W18 | 6 10 16 | 2°43'00 | 2M.29 | 15°37 | 2°44 | 20° 3 | 6°41 | 22°13 | 19°18 | 26° 2 | 12°19 | 4°31 | 4°39 | 25°33 | 4°26 | |
| T 19 | 6 14 13 | 3°44'11 | 15° 3 | 17° 4 | 3°58 | 20°36 | 6°51 | 22°20 | 19°21 | 26° 4 | 12°18 | 4°31 | 4°35 | 25°40 | 4°25 | |
| F 20 | 6 18 9 | 4°45'23 | 27°54 | 18°32 | 5°13 | 21°10 | 7° 1 | 22°26 | 19°24 | 26° 6 | 12°17 | 4°31 | 4°32 | 25°46 | 4°24 | |
| S 21 | 6 22 6 | 5°46'34 | 11A 7 | 20° 1 | 6°27 | 21°43 | 7°10 | 22°33 | 19°26 | 26° 9 | 12°16 | 4°31 | 4°29 | 25°53 | 4°23 | |
| S 22 | 6 26 2 | 6°47'45 | 24°45 | 21°30 | 7°42 | 22°16 | 7°20 | 22°40 | 19°29 | 26°11 | 12°15 | 4°31 | 4°26 | 26° 0 | 4°22 | |
| M23 | 6 29 59 | 7°48'56 | 8M.48 | 23° 0 | 8°56 | 22°49 | 7°29 | 22°47 | 19°32 | 26°13 | 12°13 | 4°32 | 4°23 | 26° 6 | 4°21 | |
| T 24 | 6 33 55 | 8°50'08 | 23°15 | 24°30 | 10°11 | 23°22 | 7°39 | 22°54 | 19°35 | 26°15 | 12°12 | 4°32 | 4°19 | 26°13 | 4°20 | |
| W25 | 6 37 52 | 9°51'19 | 8A 3 | 26° 1 | 11°25 | 23°55 | 7°48 | 23° 1 | 19°38 | 26°17 | 12°11 | 4°32 | 4°16 | 26°20 | 4°18 | |
| T 26 | 6 41 49 | 10°52'30 | 23° 7 | 27°32 | 12°40 | 24°28 | 7°57 | 23° 8 | 19°40 | 26°20 | 12°10 | 4°33 | 4°13 | 26°26 | 4°17 | |
| F 27 | 6 45 45 | 11°53'40 | 8B.19 | 29° 4 | 13°54 | 25° 1 | 8° 6 | 23°15 | 19°43 | 26°22 | 12° 9 | 4R.33 | 4°10 | 26°33 | 4°15 | |
| S 28 | 6 49 42 | 12°54'50 | 23°27 | 0B.36 | 15° 9 | 25°34 | 8°15 | 23°22 | 19°46 | 26°24 | 12° 8 | 4°33 | 4° 7 | 26°40 | 4°13 | |
| S 29 | 6 53 38 | 13°56'00 | 8A.25 | 2° 9 | 16°24 | 26° 6 | 8°24 | 23°28 | 19°49 | 26°26 | 12° 7 | 4°32 | 4° 4 | 26°46 | 4°12 | |
| M30 | 6 57 35 | 14°57'09 | 23° 2 | 3°42 | 17°38 | 26°39 | 8°32 | 23°35 | 19°52 | 26°28 | 12° 6 | 4°31 | 4° 0 | 26°53 | 4°10 | |
| T 31 | 7 1 31 | 15B.58'16 | 7A.15 | 5B.16 | 18A.53 | 27A.11 | 8M.41 | 23A.42 | 19A.55 | 26A.31 | 12M. 5 | 4E.29 | 3E.57 | 27M. 0 | 4M. 8 | |

Delta T = 14m03s

Julian Calendar

created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]