

SWISS EPHEMERIS for the year 1416 BCE

MARCH 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | |
|------|----------|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|
| W 1 | 9 43 18 | 28♌8'03 | 28♌42 | 14♋38 | 18♌52 | 6♀13 | 25♄40 | 26♄25 | 27♄15 | 25♃9 | 16♌55 | 25°D15 | 24♌16 | 23♌16 | n.a. |
| T 2 | 9 47 14 | 29° 6'43 | 10♌35 | 14°49 | 20° 2 | 6°35 | 25°50 | 26°31 | 27°17 | 25°11 | 16°57 | 25♌15 | 24°13 | 23°23 | n.a. |
| F 3 | 9 51 11 | 0♌5'21 | 22°25 | 14°R53 | 21°13 | 6°57 | 26° 0 | 26°36 | 27°20 | 25°13 | 16°58 | 25°17 | 24°10 | 23°30 | n.a. |
| S 4 | 9 55 7 | 1° 3'57 | 4♌14 | 14°51 | 22°23 | 7°19 | 26°11 | 26°42 | 27°22 | 25°15 | 16°59 | 25°19 | 24° 7 | 23°36 | n.a. |
| S 5 | 9 59 4 | 2° 2'31 | 16° 8 | 14°43 | 23°34 | 7°41 | 26°21 | 26°48 | 27°24 | 25°17 | 17° 0 | 25°20 | 24° 3 | 23°43 | n.a. |
| M 6 | 10 3 0 | 3° 1'03 | 28°12 | 14°29 | 24°44 | 8° 4 | 26°32 | 26°53 | 27°27 | 25°19 | 17° 2 | 25°R20 | 24° 0 | 23°50 | n.a. |
| T 7 | 10 6 57 | 3°59'34 | 10♌27 | 14°10 | 25°55 | 8°27 | 26°42 | 26°59 | 27°29 | 25°21 | 17° 3 | 25°19 | 23°57 | 23°56 | n.a. |
| W 8 | 10 10 53 | 4°58'02 | 22°58 | 13°45 | 27° 6 | 8°50 | 26°53 | 27° 5 | 27°31 | 25°23 | 17° 4 | 25°16 | 23°54 | 24° 3 | n.a. |
| T 9 | 10 14 50 | 5°56'28 | 5♌44 | 13°17 | 28°16 | 9°14 | 27° 4 | 27°11 | 27°34 | 25°26 | 17° 5 | 25°11 | 23°51 | 24°10 | n.a. |
| F 10 | 10 18 47 | 6°54'53 | 18°46 | 12°44 | 29°27 | 9°38 | 27°15 | 27°17 | 27°36 | 25°28 | 17° 7 | 25° 5 | 23°48 | 24°16 | n.a. |
| S 11 | 10 22 43 | 7°53'15 | 2♄ 4 | 12° 8 | 0♌38 | 10° 2 | 27°26 | 27°23 | 27°39 | 25°30 | 17° 8 | 24°58 | 23°44 | 24°23 | n.a. |
| S 12 | 10 26 40 | 8°51'35 | 15°36 | 11°29 | 1°49 | 10°26 | 27°37 | 27°29 | 27°41 | 25°32 | 17° 9 | 24°50 | 23°41 | 24°30 | n.a. |
| M13 | 10 30 36 | 9°49'53 | 29°19 | 10°49 | 2°59 | 10°51 | 27°48 | 27°35 | 27°44 | 25°34 | 17°10 | 24°44 | 23°38 | 24°36 | n.a. |
| T 14 | 10 34 33 | 10°48'09 | 13♌11 | 10° 8 | 4°10 | 11°16 | 28° 0 | 27°41 | 27°47 | 25°36 | 17°11 | 24°39 | 23°35 | 24°43 | n.a. |
| W15 | 10 38 29 | 11°46'23 | 27°11 | 9°26 | 5°21 | 11°41 | 28°11 | 27°48 | 27°49 | 25°39 | 17°12 | 24°36 | 23°32 | 24°50 | n.a. |
| T 16 | 10 42 26 | 12°44'35 | 11♀16 | 8°45 | 6°32 | 12° 7 | 28°22 | 27°54 | 27°52 | 25°41 | 17°13 | 24°D35 | 23°28 | 24°56 | n.a. |
| F 17 | 10 46 22 | 13°42'44 | 25°26 | 8° 6 | 7°43 | 12°32 | 28°34 | 28° 0 | 27°55 | 25°43 | 17°14 | 24°36 | 23°25 | 25° 3 | n.a. |
| S 18 | 10 50 19 | 14°40'52 | 9♌38 | 7°28 | 8°54 | 12°58 | 28°45 | 28° 7 | 27°58 | 25°45 | 17°15 | 24°37 | 23°22 | 25°10 | n.a. |
| S 19 | 10 54 16 | 15°38'57 | 23°51 | 6°52 | 10° 5 | 13°24 | 28°57 | 28°13 | 28° 0 | 25°47 | 17°16 | 24°R38 | 23°19 | 25°16 | n.a. |
| M20 | 10 58 12 | 16°37'00 | 8♀ 3 | 6°20 | 11°16 | 13°51 | 29° 9 | 28°20 | 28° 3 | 25°50 | 17°17 | 24°37 | 23°16 | 25°23 | n.a. |
| T 21 | 11 2 9 | 17°35'01 | 22°11 | 5°51 | 12°27 | 14°17 | 29°21 | 28°26 | 28° 6 | 25°52 | 17°18 | 24°34 | 23°13 | 25°30 | n.a. |
| W22 | 11 6 5 | 18°33'00 | 6♀10 | 5°25 | 13°38 | 14°44 | 29°32 | 28°33 | 28° 9 | 25°54 | 17°19 | 24°29 | 23° 9 | 25°36 | n.a. |
| T 23 | 11 10 2 | 19°30'57 | 19°58 | 5° 5 | 14°50 | 15°11 | 29°44 | 28°40 | 28°12 | 25°56 | 17°20 | 24°21 | 23° 6 | 25°43 | n.a. |
| F 24 | 11 13 58 | 20°28'52 | 3♌30 | 4°48 | 16° 1 | 15°38 | 29°56 | 28°47 | 28°15 | 25°59 | 17°21 | 24°12 | 23° 3 | 25°50 | n.a. |
| S 25 | 11 17 55 | 21°26'46 | 16°44 | 4°36 | 17°12 | 16° 6 | 0♌ 8 | 28°53 | 28°18 | 26° 1 | 17°22 | 24° 2 | 23° 0 | 25°56 | n.a. |
| S 26 | 11 21 51 | 22°24'38 | 29°38 | 4°29 | 18°23 | 16°33 | 0°21 | 29° 0 | 28°21 | 26° 3 | 17°23 | 23°53 | 22°57 | 26° 3 | n.a. |
| M27 | 11 25 48 | 23°22'29 | 12♀13 | 4°D26 | 19°35 | 17° 1 | 0°33 | 29° 7 | 28°24 | 26° 5 | 17°24 | 23°45 | 22°53 | 26°10 | n.a. |
| T 28 | 11 29 44 | 24°20'18 | 24°31 | 4°29 | 20°46 | 17°29 | 0°45 | 29°14 | 28°27 | 26° 8 | 17°25 | 23°39 | 22°50 | 26°16 | n.a. |
| W29 | 11 33 41 | 25°18'06 | 6♌35 | 4°36 | 21°58 | 17°57 | 0°57 | 29°21 | 28°30 | 26°10 | 17°25 | 23°35 | 22°47 | 26°23 | n.a. |
| T 30 | 11 37 38 | 26°15'52 | 18°30 | 4°47 | 23° 9 | 18°26 | 1°10 | 29°28 | 28°33 | 26°12 | 17°26 | 23°33 | 22°44 | 26°30 | n.a. |
| F 31 | 11 41 34 | 27°13'38 | 0♌19 | 5♌ 4 | 24°20 | 18°54 | 1♌22 | 29°35 | 28°36 | 26°14 | 17°27 | 23°D32 | 22°41 | 26°36 | n.a. |

Delta T = 09h33m53s Julian Calendar 1 March 1416 BCE == Greg. Calendar 16 Feb. 1416 BCE
 The year -1415 astronomical counting style corresponds to year 1416 B.C.E historical counting style.

APRIL 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♁ | |
|------|----------|----------|-------|-------|-------|---------|------|--------|--------|--------|--------|--------|--------|--------|------|
| S 1 | 11 45 31 | 28♌11'21 | 12♌ 9 | 5♌24 | 25°32 | 19°II23 | 1♌35 | 29°V43 | 28°V39 | 26°H17 | 17°Z28 | 23°R33 | 22°Z38 | 26°A43 | n.a. |
| S 2 | 11 49 27 | 29° 9'04 | 24° 5 | 5°50 | 26°43 | 19°52 | 1°47 | 29°50 | 28°43 | 26°19 | 17°28 | 23°R33 | 22°34 | 26°50 | n.a. |
| M 3 | 11 53 24 | 0♄ 6'45 | 6♌12 | 6°19 | 27°55 | 20°21 | 2° 0 | 29°57 | 28°46 | 26°21 | 17°29 | 23°32 | 22°31 | 26°56 | n.a. |
| T 4 | 11 57 20 | 1° 4'25 | 18°35 | 6°52 | 29° 7 | 20°50 | 2°12 | 0♌ 4 | 28°49 | 26°23 | 17°30 | 23°30 | 22°28 | 27° 3 | n.a. |
| W 5 | 12 1 17 | 2° 2'04 | 1♌15 | 7°30 | 0♌18 | 21°20 | 2°25 | 0°12 | 28°52 | 26°26 | 17°30 | 23°25 | 22°25 | 27°10 | n.a. |
| T 6 | 12 5 13 | 2°59'42 | 14°17 | 8°11 | 1°30 | 21°49 | 2°38 | 0°19 | 28°55 | 26°28 | 17°31 | 23°17 | 22°22 | 27°16 | n.a. |
| F 7 | 12 9 10 | 3°57'18 | 27°40 | 8°56 | 2°42 | 22°19 | 2°51 | 0°26 | 28°59 | 26°30 | 17°32 | 23° 7 | 22°19 | 27°23 | n.a. |
| S 8 | 12 13 7 | 4°54'52 | 11♄21 | 9°45 | 3°53 | 22°49 | 3° 3 | 0°34 | 29° 2 | 26°32 | 17°32 | 22°56 | 22°15 | 27°30 | n.a. |
| S 9 | 12 17 3 | 5°52'26 | 25°19 | 10°37 | 5° 5 | 23°19 | 3°16 | 0°41 | 29° 5 | 26°35 | 17°33 | 22°45 | 22°12 | 27°36 | n.a. |
| M10 | 12 21 0 | 6°49'58 | 9♌28 | 11°32 | 6°17 | 23°49 | 3°29 | 0°49 | 29° 9 | 26°37 | 17°33 | 22°35 | 22° 9 | 27°43 | n.a. |
| T 11 | 12 24 56 | 7°47'28 | 23°43 | 12°30 | 7°28 | 24°20 | 3°42 | 0°56 | 29°12 | 26°39 | 17°34 | 22°27 | 22° 6 | 27°50 | n.a. |
| W12 | 12 28 53 | 8°44'58 | 8♀ 0 | 13°32 | 8°40 | 24°50 | 3°55 | 1° 4 | 29°15 | 26°41 | 17°34 | 22°21 | 22° 3 | 27°56 | n.a. |
| T 13 | 12 32 49 | 9°42'25 | 22°15 | 14°37 | 9°52 | 25°21 | 4° 8 | 1°11 | 29°19 | 26°43 | 17°35 | 22°19 | 21°59 | 28° 3 | n.a. |
| F 14 | 12 36 46 | 10°39'52 | 6♌26 | 15°45 | 11° 4 | 25°52 | 4°21 | 1°19 | 29°22 | 26°46 | 17°35 | 22°D18 | 21°56 | 28°10 | n.a. |
| S 15 | 12 40 42 | 11°37'16 | 20°31 | 16°55 | 12°16 | 26°23 | 4°34 | 1°26 | 29°26 | 26°48 | 17°36 | 22°R18 | 21°53 | 28°16 | n.a. |
| S 16 | 12 44 39 | 12°34'39 | 4♀29 | 18° 9 | 13°28 | 26°54 | 4°47 | 1°34 | 29°29 | 26°50 | 17°36 | 22°17 | 21°50 | 28°23 | n.a. |
| M17 | 12 48 36 | 13°32'01 | 18°21 | 19°25 | 14°40 | 27°25 | 5° 1 | 1°42 | 29°32 | 26°52 | 17°36 | 22°16 | 21°47 | 28°30 | n.a. |
| T 18 | 12 52 32 | 14°29'21 | 2♀ 4 | 20°44 | 15°51 | 27°56 | 5°14 | 1°49 | 29°36 | 26°54 | 17°37 | 22°11 | 21°44 | 28°36 | n.a. |
| W19 | 12 56 29 | 15°26'41 | 15°39 | 22° 6 | 17° 3 | 28°28 | 5°27 | 1°57 | 29°39 | 26°57 | 17°37 | 22° 4 | 21°40 | 28°43 | n.a. |
| T 20 | 13 0 25 | 16°23'58 | 29° 2 | 23°30 | 18°15 | 28°59 | 5°40 | 2° 5 | 29°43 | 26°59 | 17°37 | 21°54 | 21°37 | 28°50 | n.a. |
| F 21 | 13 4 22 | 17°21'15 | 12♌14 | 24°57 | 19°27 | 29°31 | 5°54 | 2°12 | 29°46 | 27° 1 | 17°37 | 21°42 | 21°34 | 28°56 | n.a. |
| S 22 | 13 8 18 | 18°18'31 | 25°11 | 26°26 | 20°39 | 0♌ 3 | 6° 7 | 2°20 | 29°50 | 27° 3 | 17°38 | 21°30 | 21°31 | 29° 3 | n.a. |
| S 23 | 13 12 15 | 19°15'46 | 7♀53 | 27°59 | 21°51 | 0°35 | 6°20 | 2°28 | 29°53 | 27° 5 | 17°38 | 21°17 | 21°28 | 29° 9 | n.a. |
| M24 | 13 16 11 | 20°13'00 | 20°20 | 29°33 | 23° 4 | 1° 7 | 6°34 | 2°36 | 29°57 | 27° 7 | 17°38 | 21° 6 | 21°24 | 29°16 | n.a. |
| T 25 | 13 20 8 | 21°10'14 | 2♌33 | 1♄10 | 24°16 | 1°39 | 6°47 | 2°44 | 0♌ 0 | 27° 9 | 17°38 | 20°57 | 21°21 | 29°23 | n.a. |
| W26 | 13 24 5 | 22° 7'26 | 14°34 | 2°50 | 25°28 | 2°12 | 7° 0 | 2°51 | 0° 4 | 27°11 | 17°38 | 20°51 | 21°18 | 29°29 | n.a. |
| T 27 | 13 28 1 | 23° 4'39 | 26°26 | 4°33 | 26°40 | 2°44 | 7°14 | 2°59 | 0° 7 | 27°14 | 17°38 | 20°47 | 21°15 | 29°36 | n.a. |
| F 28 | 13 31 58 | 24° 1'50 | 8♌15 | 6°17 | 27°52 | 3°17 | 7°27 | 3° 7 | 0°11 | 27°16 | 17°39 | 20°45 | 21°12 | 29°43 | n.a. |
| S 29 | 13 35 54 | 24°59'02 | 20° 5 | 8° 5 | 29° 4 | 3°49 | 7°41 | 3°15 | 0°14 | 27°18 | 17°39 | 20°45 | 21° 9 | 29°49 | n.a. |
| S 30 | 13 39 51 | 25°56'12 | 2♌ 1 | 9♄55 | 0♄17 | 4♌22 | 7♌54 | 3♌23 | 0♌18 | 27°H20 | 17°Z39 | 20°Z45 | 21°Z 5 | 29°A56 | n.a. |

Delta T = 09h33m51s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [7.2.2007]

SWISS EPHEMERIS for the year 1416 BCE

MAY 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|-------|-------|-------|-------|------|------|-------|--------|--------|-------|------|------|---|---|---|---|---|---|---|---|
| M 1 | 13 43 47 | 26°53'23 | 14♁ 8 | 11°47 | 1°29 | 4♁55 | 8♃ 8 | 3♄31 | 0♅21 | 27°22 | 17°R39 | 20°R44 | 21♁ 2 | 0♂ 3 | n.a. | | | | | | | | |
| T 2 | 13 47 44 | 27°50'33 | 26°33 | 13°41 | 2°41 | 5°28 | 8°21 | 3°39 | 0°25 | 27°24 | 17°39 | 20°342 | 20°59 | 0° 9 | n.a. | | | | | | | | |
| W 3 | 13 51 40 | 28°47'42 | 9♁18 | 15°38 | 3°54 | 6° 1 | 8°35 | 3°46 | 0°28 | 27°26 | 17°39 | 20°37 | 20°56 | 0°16 | n.a. | | | | | | | | |
| T 4 | 13 55 37 | 29°44'51 | 22°28 | 17°37 | 5° 6 | 6°34 | 8°48 | 3°54 | 0°32 | 27°28 | 17°39 | 20°29 | 20°53 | 0°23 | n.a. | | | | | | | | |
| F 5 | 13 59 33 | 0♂42'00 | 6°4 | 19°38 | 6°18 | 7° 8 | 9° 2 | 4° 2 | 0°36 | 27°30 | 17°38 | 20°20 | 20°50 | 0°29 | n.a. | | | | | | | | |
| S 6 | 14 3 30 | 1°39'08 | 20° 3 | 21°41 | 7°31 | 7°41 | 9°16 | 4°10 | 0°39 | 27°32 | 17°38 | 20° 9 | 20°46 | 0°36 | n.a. | | | | | | | | |
| S 7 | 14 7 27 | 2°36'16 | 4♁22 | 23°46 | 8°43 | 8°15 | 9°29 | 4°18 | 0°43 | 27°33 | 17°38 | 19°57 | 20°43 | 0°43 | n.a. | | | | | | | | |
| M 8 | 14 11 23 | 3°33'24 | 18°56 | 25°53 | 9°56 | 8°49 | 9°43 | 4°26 | 0°46 | 27°35 | 17°38 | 19°47 | 20°40 | 0°49 | n.a. | | | | | | | | |
| T 9 | 14 15 20 | 4°30'31 | 3♁36 | 28° 1 | 11° 8 | 9°22 | 9°56 | 4°34 | 0°50 | 27°37 | 17°38 | 19°39 | 20°37 | 0°56 | n.a. | | | | | | | | |
| W10 | 14 19 16 | 5°27'38 | 18°16 | 0♂10 | 12°21 | 9°56 | 10°10 | 4°42 | 0°53 | 27°39 | 17°38 | 19°34 | 20°34 | 1° 3 | n.a. | | | | | | | | |
| T 11 | 14 23 13 | 6°24'44 | 2♁49 | 2°20 | 13°33 | 10°30 | 10°24 | 4°50 | 0°57 | 27°41 | 17°37 | 19°31 | 20°30 | 1° 9 | n.a. | | | | | | | | |
| F 12 | 14 27 9 | 7°21'50 | 17°11 | 4°30 | 14°46 | 11° 4 | 10°37 | 4°58 | 1° 0 | 27°43 | 17°37 | 19°D30 | 20°27 | 1°16 | n.a. | | | | | | | | |
| S 13 | 14 31 6 | 8°18'55 | 1♁20 | 6°41 | 15°58 | 11°39 | 10°51 | 5° 6 | 1° 4 | 27°45 | 17°37 | 19°R30 | 20°24 | 1°23 | n.a. | | | | | | | | |
| S 14 | 14 35 3 | 9°15'59 | 15°15 | 8°52 | 17°11 | 12°13 | 11° 5 | 5°14 | 1° 7 | 27°46 | 17°37 | 19°30 | 20°21 | 1°29 | n.a. | | | | | | | | |
| M15 | 14 38 59 | 10°13'03 | 28°56 | 11° 3 | 18°23 | 12°47 | 11°18 | 5°21 | 1°11 | 27°48 | 17°36 | 19°29 | 20°18 | 1°36 | n.a. | | | | | | | | |
| T 16 | 14 42 56 | 11°10'06 | 12♁23 | 13°14 | 19°36 | 13°22 | 11°32 | 5°29 | 1°14 | 27°50 | 17°36 | 19°25 | 20°15 | 1°43 | n.a. | | | | | | | | |
| W17 | 14 46 52 | 12° 7'09 | 2♁38 | 15°24 | 20°49 | 13°56 | 11°45 | 5°37 | 1°18 | 27°52 | 17°36 | 19°19 | 20°11 | 1°49 | n.a. | | | | | | | | |
| T 18 | 14 50 49 | 13° 4'12 | 8♁41 | 17°32 | 22° 1 | 14°31 | 11°59 | 5°45 | 1°21 | 27°53 | 17°35 | 19°11 | 20° 8 | 1°56 | n.a. | | | | | | | | |
| F 19 | 14 54 45 | 14° 1'14 | 21°31 | 19°40 | 23°14 | 15° 6 | 12°13 | 5°53 | 1°25 | 27°55 | 17°35 | 19° 0 | 20° 5 | 2° 2 | n.a. | | | | | | | | |
| S 20 | 14 58 42 | 14°58'17 | 4♁ 9 | 21°47 | 24°27 | 15°41 | 12°26 | 6° 1 | 1°28 | 27°57 | 17°34 | 18°49 | 20° 2 | 2° 9 | n.a. | | | | | | | | |
| S 21 | 15 2 38 | 15°55'19 | 16°35 | 23°52 | 25°40 | 16°16 | 12°40 | 6° 9 | 1°32 | 27°59 | 17°34 | 18°38 | 19°59 | 2°16 | n.a. | | | | | | | | |
| M22 | 15 6 35 | 16°52'21 | 28°50 | 25°55 | 26°52 | 16°51 | 12°54 | 6°17 | 1°35 | 28° 0 | 17°33 | 18°29 | 19°56 | 2°22 | n.a. | | | | | | | | |
| T 23 | 15 10 31 | 17°49'24 | 10♁54 | 27°57 | 28° 5 | 17°26 | 13° 7 | 6°24 | 1°39 | 28° 2 | 17°33 | 18°21 | 19°52 | 2°29 | n.a. | | | | | | | | |
| W24 | 15 14 28 | 18°46'27 | 22°50 | 29°57 | 29°18 | 18° 1 | 13°21 | 6°32 | 1°42 | 28° 3 | 17°32 | 18°15 | 19°49 | 2°36 | n.a. | | | | | | | | |
| T 25 | 15 18 25 | 19°43'30 | 4♁40 | 1♁56 | 0♂31 | 18°36 | 13°34 | 6°40 | 1°46 | 28° 5 | 17°32 | 18°12 | 19°46 | 2°42 | n.a. | | | | | | | | |
| F 26 | 15 22 21 | 20°40'33 | 16°27 | 3°52 | 1°44 | 19°12 | 13°48 | 6°48 | 1°49 | 28° 6 | 17°31 | 18°D11 | 19°43 | 2°49 | n.a. | | | | | | | | |
| S 27 | 15 26 18 | 21°37'37 | 28°16 | 5°47 | 2°57 | 19°47 | 14° 2 | 6°55 | 1°52 | 28° 8 | 17°31 | 18°11 | 19°40 | 2°56 | n.a. | | | | | | | | |
| S 28 | 15 30 14 | 22°34'41 | 10♁11 | 7°39 | 4°10 | 20°23 | 14°15 | 7° 3 | 1°56 | 28° 9 | 17°30 | 18°12 | 19°36 | 3° 2 | n.a. | | | | | | | | |
| M29 | 15 34 11 | 23°31'46 | 22°18 | 9°30 | 5°23 | 20°58 | 14°29 | 7°11 | 1°59 | 28°11 | 17°29 | 18°R13 | 19°33 | 3° 9 | n.a. | | | | | | | | |
| T 30 | 15 38 7 | 24°28'52 | 4♁42 | 11°19 | 6°36 | 21°34 | 14°42 | 7°19 | 2° 2 | 28°12 | 17°29 | 18°12 | 19°30 | 3°16 | n.a. | | | | | | | | |
| W31 | 15 42 4 | 25♁25'57 | 17♁27 | 13♁ 5 | 7♁49 | 22♁10 | 14♁56 | 7♁26 | 2♁ 6 | 28♁14 | 17♁28 | 18♁10 | 19♁27 | 3♁22 | n.a. | | | | | | | | |

Delta T = 09h33m49s Julian Calendar 1 May 1416 BCE == Greg. Calendar 18 Apr. 1416 BCE
 The year -1415 astronomical counting style corresponds to year 1416 B.C.E historical counting style.

JUNE 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|------|-------|--------|--------|-------|------|------|---|---|---|---|---|---|---|---|
| T 1 | 15 46 0 | 26♁23'04 | 0°47 | 14♁50 | 9♁ 2 | 22♁46 | 15♁ 9 | 7♁34 | 2♁ 9 | 28♁15 | 17°R27 | 18°R 6 | 19♁24 | 3♁29 | n.a. | | | | | | | | |
| F 2 | 15 49 57 | 27°20'11 | 14°16 | 16°33 | 10°15 | 23°22 | 15°23 | 7°42 | 2°12 | 28°16 | 17°26 | 18°3 0 | 19°21 | 3°36 | n.a. | | | | | | | | |
| S 3 | 15 53 54 | 28°17'19 | 28°21 | 18°14 | 11°28 | 23°58 | 15°36 | 7°49 | 2°16 | 28°18 | 17°26 | 17°53 | 19°17 | 3°42 | n.a. | | | | | | | | |
| S 4 | 15 57 50 | 29°14'28 | 12♁51 | 19°53 | 12°41 | 24°34 | 15°50 | 7°57 | 2°19 | 28°19 | 17°25 | 17°45 | 19°14 | 3°49 | n.a. | | | | | | | | |
| M 5 | 16 1 47 | 0♁11'37 | 27°40 | 21°30 | 13°55 | 25°10 | 16° 3 | 8° 4 | 2°22 | 28°20 | 17°24 | 17°38 | 19°11 | 3°56 | n.a. | | | | | | | | |
| T 6 | 16 5 43 | 1° 8'47 | 12♁39 | 23° 5 | 15° 8 | 25°46 | 16°16 | 8°12 | 2°25 | 28°22 | 17°23 | 17°33 | 19° 8 | 4° 2 | n.a. | | | | | | | | |
| W 7 | 16 9 40 | 2° 5'58 | 2♁39 | 24°38 | 16°21 | 26°23 | 16°30 | 8°19 | 2°29 | 28°23 | 17°23 | 17°29 | 19° 5 | 4° 9 | n.a. | | | | | | | | |
| T 8 | 16 13 36 | 3° 3'09 | 12♁33 | 26° 9 | 17°34 | 26°59 | 16°43 | 8°27 | 2°32 | 28°24 | 17°22 | 17°D28 | 19° 2 | 4°16 | n.a. | | | | | | | | |
| F 9 | 16 17 33 | 4° 0'20 | 27°13 | 27°39 | 18°48 | 27°36 | 16°56 | 8°34 | 2°35 | 28°25 | 17°21 | 17°28 | 18°58 | 4°22 | n.a. | | | | | | | | |
| S 10 | 16 21 30 | 4°57'32 | 11♁35 | 29° 6 | 20° 1 | 28°13 | 17°10 | 8°42 | 2°38 | 28°26 | 17°20 | 17°29 | 18°55 | 4°29 | n.a. | | | | | | | | |
| S 11 | 16 25 26 | 5°54'44 | 25°37 | 0♁31 | 21°14 | 28°49 | 17°23 | 8°49 | 2°41 | 28°28 | 17°19 | 17°30 | 18°52 | 4°35 | n.a. | | | | | | | | |
| M12 | 16 29 23 | 6°51'56 | 9♁17 | 1°54 | 22°28 | 29°26 | 17°36 | 8°56 | 2°44 | 28°29 | 17°18 | 17°R31 | 18°49 | 4°42 | n.a. | | | | | | | | |
| T 13 | 16 33 19 | 7°49'09 | 22°39 | 3°15 | 23°41 | 0♁ 3 | 17°49 | 9° 4 | 2°47 | 28°30 | 17°17 | 17°30 | 18°46 | 4°49 | n.a. | | | | | | | | |
| W14 | 16 37 16 | 8°46'23 | 5♁42 | 4°34 | 24°55 | 0°40 | 18° 2 | 9°11 | 2°50 | 28°31 | 17°16 | 17°27 | 18°42 | 4°55 | n.a. | | | | | | | | |
| T 15 | 16 41 12 | 9°43'37 | 18°30 | 5°50 | 26° 8 | 1°17 | 18°16 | 9°18 | 2°53 | 28°32 | 17°15 | 17°23 | 18°39 | 5° 2 | n.a. | | | | | | | | |
| F 16 | 16 45 9 | 10°40'52 | 1♁ 4 | 7° 4 | 27°22 | 1°54 | 18°29 | 9°25 | 2°56 | 28°33 | 17°14 | 17°17 | 18°36 | 5° 9 | n.a. | | | | | | | | |
| S 17 | 16 49 5 | 11°38'07 | 13°26 | 8°16 | 28°35 | 2°31 | 18°42 | 9°33 | 2°59 | 28°34 | 17°13 | 17°11 | 18°33 | 5°15 | n.a. | | | | | | | | |
| S 18 | 16 53 2 | 12°35'24 | 25°37 | 9°26 | 29°49 | 3° 9 | 18°55 | 9°40 | 3° 2 | 28°34 | 17°12 | 17° 5 | 18°30 | 5°22 | n.a. | | | | | | | | |
| M19 | 16 56 59 | 13°32'41 | 7♁40 | 10°33 | 1♁ 2 | 3°46 | 19° 8 | 9°47 | 3° 5 | 28°35 | 17°11 | 16°59 | 18°27 | 5°29 | n.a. | | | | | | | | |
| T 20 | 17 0 55 | 14°30'00 | 19°36 | 11°38 | 2°16 | 4°23 | 19°21 | 9°54 | 3° 8 | 28°36 | 17°10 | 16°55 | 18°23 | 5°35 | n.a. | | | | | | | | |
| W21 | 17 4 52 | 15°27'19 | 1♁27 | 12°40 | 3°30 | 5° 1 | 19°34 | 10° 1 | 3°11 | 28°37 | 17° 9 | 16°53 | 18°20 | 5°42 | n.a. | | | | | | | | |
| T 22 | 17 8 48 | 16°24'40 | 13°14 | 13°39 | 4°43 | 5°38 | 19°46 | 10° 8 | 3°14 | 28°38 | 17° 8 | 16°D52 | 18°17 | 5°49 | n.a. | | | | | | | | |
| F 23 | 17 12 45 | 17°22'01 | 25° 2 | 14°35 | 5°57 | 6°16 | 19°59 | 10°15 | 3°16 | 28°39 | 17° 7 | 16°52 | 18°14 | 5°55 | n.a. | | | | | | | | |
| S 24 | 17 16 41 | 18°19'24 | 6♁52 | 15°28 | 7°11 | 6°54 | 20°12 | 10°21 | 3°19 | 28°39 | 17° 6 | 16°53 | 18°11 | 6° 2 | n.a. | | | | | | | | |
| S 25 | 17 20 38 | 19°16'49 | 18°49 | 16°18 | 8°24 | 7°32 | 20°25 | 10°28 | 3°22 | 28°40 | 17° 5 | 16°55 | 18° 8 | 6° 9 | n.a. | | | | | | | | |
| M26 | 17 24 34 | 20°14'14 | 0♁56 | 17° 5 | 9°38 | 8° 9 | 20°37 | 10°35 | 3°25 | 28°41 | 17° 4 | 16°56 | 18° 4 | 6°15 | n.a. | | | | | | | | |
| T 27 | 17 28 31 | 21°11'41 | 13°19 | 17°48 | 10°52 | 8°47 | 20°50 | 10°42 | 3°27 | 28°41 | 17° 3 | 16°57 | 18° 1 | 6°22 | n.a. | | | | | | | | |
| W28 | 17 32 28 | 22° 9'10 | 26° 2 | 18°28 | 12° 6 | 9°25 | 21° 3 | 10°48 | 3°30 | 28°42 | 17° 2 | 16°R57 | 17°58 | 6°29 | n.a. | | | | | | | | |
| T 29 | 17 36 24 | 23° 6'40 | 9°47 | 19° 4 | 13°20 | 10° 3 | 21°15 | 10°55 | 3°32 | 28°42 | 17° 0 | 16°57 | 17°55 | 6°35 | n.a. | | | | | | | | |
| F 30 | 17 40 21 | 24♁ 4'12 | 22°42 | 19♁35 | 14♁34 | 10♁42 | 21♁28 | 11♁ 1 | 3♁35 | 28♁43 | 16♁59 | 16♁55 | 17♁52 | 6♁42 | n.a. | | | | | | | | |

Delta T = 09h33m47s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [7.2.2007]

SWISS EPHEMERIS for the year 1416 BCE

JULY 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|-----------|--------|--------|--------|-------|-------|-------|------|--------|-------|--------|-------|-------|------|
| S 1 | 17 44 17 | 25II 1'46 | 6B43 | 20E 3 | 15II48 | 11O20 | 21B40 | 11B 8 | 3B38 | 28H43 | 16R58 | 16R52 | 17B48 | 6B48 | n.a. |
| S 2 | 17 48 14 | 25°59'21 | 21°10 | 20°26 | 17° 2 | 11°58 | 21°52 | 11°14 | 3°40 | 28°44 | 16B57 | 16B49 | 17°45 | 6°55 | n.a. |
| M 3 | 17 52 10 | 26°56'57 | 6II 0 | 20°44 | 18°16 | 12°37 | 22° 5 | 11°21 | 3°43 | 28°44 | 16°56 | 16°47 | 17°42 | 7° 2 | n.a. |
| T 4 | 17 56 7 | 27°54'36 | 21° 5 | 20°58 | 19°30 | 13°15 | 22°17 | 11°27 | 3°45 | 28°45 | 16°55 | 16°45 | 17°39 | 7° 8 | n.a. |
| W 5 | 18 0 3 | 28°52'16 | 6E16 | 21° 6 | 20°44 | 13°54 | 22°29 | 11°33 | 3°47 | 28°45 | 16°53 | 16°44 | 17°36 | 7°15 | n.a. |
| T 6 | 18 4 0 | 29°49'57 | 21°24 | 21°R 9 | 21°58 | 14°32 | 22°41 | 11°39 | 3°50 | 28°45 | 16°52 | 16°D44 | 17°33 | 7°22 | n.a. |
| F 7 | 18 7 57 | 0E47'39 | 6O20 | 21° 7 | 23°12 | 15°11 | 22°53 | 11°46 | 3°52 | 28°46 | 16°51 | 16°44 | 17°29 | 7°28 | n.a. |
| S 8 | 18 11 53 | 1°45'23 | 20°57 | 20°59 | 24°26 | 15°50 | 23° 5 | 11°52 | 3°54 | 28°46 | 16°50 | 16°45 | 17°26 | 7°35 | n.a. |
| S 9 | 18 15 50 | 2°43'08 | 5M11 | 20°46 | 25°41 | 16°29 | 23°17 | 11°58 | 3°56 | 28°46 | 16°48 | 16°46 | 17°23 | 7°42 | n.a. |
| M10 | 18 19 46 | 3°40'55 | 18°59 | 20°26 | 26°55 | 17° 7 | 23°29 | 12° 4 | 3°59 | 28°46 | 16°47 | 16°47 | 17°20 | 7°48 | n.a. |
| T 11 | 18 23 43 | 4°38'42 | 2E23 | 20° 1 | 28° 9 | 17°46 | 23°41 | 12° 9 | 4° 1 | 28°47 | 16°46 | 16°R48 | 17°17 | 7°55 | n.a. |
| W12 | 18 27 39 | 5°36'31 | 15°24 | 19°31 | 29°23 | 18°26 | 23°52 | 12°15 | 4° 3 | 28°47 | 16°45 | 16°47 | 17°14 | 8° 2 | n.a. |
| T 13 | 18 31 36 | 6°34'21 | 28° 5 | 18°55 | 0E38 | 19° 5 | 24° 4 | 12°21 | 4° 5 | 28°47 | 16°43 | 16°47 | 17°10 | 8° 8 | n.a. |
| F 14 | 18 35 32 | 7°32'13 | 10M30 | 18°14 | 1°52 | 19°44 | 24°16 | 12°27 | 4° 7 | 28°47 | 16°42 | 16°46 | 17° 7 | 8°15 | n.a. |
| S 15 | 18 39 29 | 8°30'06 | 22°41 | 17°29 | 3° 6 | 20°23 | 24°27 | 12°32 | 4° 9 | 28°R47 | 16°41 | 16°45 | 17° 4 | 8°22 | n.a. |
| S 16 | 18 43 26 | 9°28'01 | 4A43 | 16°40 | 4°21 | 21° 2 | 24°39 | 12°38 | 4°11 | 28°47 | 16°40 | 16°44 | 17° 1 | 8°28 | n.a. |
| M17 | 18 47 22 | 10°25'58 | 16°37 | 15°48 | 5°35 | 21°42 | 24°50 | 12°43 | 4°13 | 28°47 | 16°38 | 16°43 | 16°58 | 8°35 | n.a. |
| T 18 | 18 51 19 | 11°23'56 | 28°27 | 14°54 | 6°49 | 22°21 | 25° 1 | 12°49 | 4°15 | 28°47 | 16°37 | 16°42 | 16°54 | 8°42 | n.a. |
| W19 | 18 55 15 | 12°21'56 | 10B15 | 13°58 | 8° 4 | 23° 1 | 25°12 | 12°54 | 4°16 | 28°47 | 16°36 | 16°42 | 16°51 | 8°48 | n.a. |
| T 20 | 18 59 12 | 13°19'57 | 22° 3 | 13° 3 | 9°18 | 23°40 | 25°24 | 12°59 | 4°18 | 28°46 | 16°34 | 16°D42 | 16°48 | 8°55 | n.a. |
| F 21 | 19 3 8 | 14°18'01 | 3E54 | 12° 8 | 10°33 | 24°20 | 25°35 | 13° 4 | 4°20 | 28°46 | 16°33 | 16°42 | 16°45 | 9° 1 | n.a. |
| S 22 | 19 7 5 | 15°16'06 | 15°50 | 11°16 | 11°47 | 25° 0 | 25°46 | 13° 9 | 4°21 | 28°46 | 16°32 | 16°42 | 16°42 | 9° 8 | n.a. |
| S 23 | 19 11 1 | 16°14'13 | 27°53 | 10°28 | 13° 2 | 25°40 | 25°56 | 13°14 | 4°23 | 28°46 | 16°31 | 16°R42 | 16°39 | 9°15 | n.a. |
| M24 | 19 14 58 | 17°12'22 | 10A 7 | 9°44 | 14°16 | 26°20 | 26° 7 | 13°19 | 4°25 | 28°46 | 16°29 | 16°42 | 16°35 | 9°21 | n.a. |
| T 25 | 19 18 55 | 18°10'34 | 22°34 | 9° 6 | 15°31 | 27° 0 | 26°18 | 13°24 | 4°26 | 28°45 | 16°28 | 16°42 | 16°32 | 9°28 | n.a. |
| W26 | 19 22 51 | 19° 8'47 | 5V18 | 8°34 | 16°46 | 27°40 | 26°28 | 13°29 | 4°28 | 28°45 | 16°27 | 16°42 | 16°29 | 9°35 | n.a. |
| T 27 | 19 26 48 | 20° 7'03 | 18°21 | 8°10 | 18° 0 | 28°20 | 26°39 | 13°33 | 4°29 | 28°45 | 16°25 | 16°D42 | 16°26 | 9°41 | n.a. |
| F 28 | 19 30 44 | 21° 5'21 | 1B47 | 7°53 | 19°15 | 29° 0 | 26°49 | 13°38 | 4°30 | 28°44 | 16°24 | 16°42 | 16°23 | 9°48 | n.a. |
| S 29 | 19 34 41 | 22° 3'41 | 15°38 | 7°D45 | 20°30 | 29°40 | 27° 0 | 13°43 | 4°32 | 28°44 | 16°23 | 16°42 | 16°19 | 9°55 | n.a. |
| S 30 | 19 38 37 | 23° 2'04 | 29°52 | 7°46 | 21°44 | 0M20 | 27°10 | 13°47 | 4°33 | 28°43 | 16°22 | 16°43 | 16°16 | 10° 1 | n.a. |
| M31 | 19 42 34 | 24E 0'29 | 14II29 | 7E56 | 22E59 | 1M 1 | 27B20 | 13B51 | 4B34 | 28H43 | 16B20 | 16B43 | 16B13 | 10B 8 | n.a. |

Delta T = 09h33m45s Julian Calendar 1 July 1416 BCE == Greg. Calendar 18 June 1416 BCE
 The year -1415 astronomical counting style corresponds to year 1416 B.C.E historical counting style.

AUGUST 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|--------|-------|-------|-------|-------|-------|------|-------|-------|--------|-------|-------|------|
| T 1 | 19 46 31 | 24E58'56 | 29II24 | 8E15 | 24E14 | 1M41 | 27B30 | 13B56 | 4B36 | 28R42 | 16R19 | 16B44 | 16B10 | 10B15 | n.a. |
| W 2 | 19 50 27 | 25°57'26 | 14E31 | 8°43 | 25°29 | 2°22 | 27°40 | 14° 0 | 4°37 | 28H42 | 16B18 | 16R44 | 16° 7 | 10°21 | n.a. |
| T 3 | 19 54 24 | 26°55'57 | 29°39 | 9°19 | 26°43 | 3° 2 | 27°50 | 14° 4 | 4°38 | 28°41 | 16°16 | 16°44 | 16° 4 | 10°28 | n.a. |
| F 4 | 19 58 20 | 27°54'30 | 14O41 | 10° 4 | 27°58 | 3°43 | 27°59 | 14° 8 | 4°39 | 28°41 | 16°15 | 16°43 | 16° 0 | 10°35 | n.a. |
| S 5 | 20 2 17 | 28°53'06 | 29°28 | 10°57 | 29°13 | 4°24 | 28° 9 | 14°12 | 4°40 | 28°40 | 16°14 | 16°42 | 15°57 | 10°41 | n.a. |
| S 6 | 20 6 13 | 29°51'43 | 13M52 | 11°57 | 0O28 | 5° 5 | 28°18 | 14°15 | 4°41 | 28°39 | 16°13 | 16°40 | 15°54 | 10°48 | n.a. |
| M 7 | 20 10 10 | 0O50'22 | 27°51 | 13° 4 | 1°43 | 5°46 | 28°28 | 14°19 | 4°42 | 28°39 | 16°11 | 16°39 | 15°51 | 10°54 | n.a. |
| T 8 | 20 14 6 | 1°49'03 | 11E22 | 14°18 | 2°58 | 6°26 | 28°37 | 14°23 | 4°42 | 28°38 | 16°10 | 16°37 | 15°48 | 11° 1 | n.a. |
| W 9 | 20 18 3 | 2°47'46 | 24°27 | 15°38 | 4°12 | 7° 7 | 28°46 | 14°26 | 4°43 | 28°37 | 16° 9 | 16°37 | 15°45 | 11° 8 | n.a. |
| T 10 | 20 22 0 | 3°46'30 | 7M 8 | 17° 3 | 5°27 | 7°49 | 28°55 | 14°30 | 4°44 | 28°36 | 16° 8 | 16°D36 | 15°41 | 11°14 | n.a. |
| F 11 | 20 25 56 | 4°45'17 | 19°30 | 18°33 | 6°42 | 8°30 | 29° 4 | 14°33 | 4°45 | 28°35 | 16° 7 | 16°37 | 15°38 | 11°21 | n.a. |
| S 12 | 20 29 53 | 5°44'05 | 1A37 | 20° 6 | 7°57 | 9°11 | 29°13 | 14°36 | 4°45 | 28°35 | 16° 5 | 16°38 | 15°35 | 11°28 | n.a. |
| S 13 | 20 33 49 | 6°42'56 | 13°33 | 21°44 | 9°12 | 9°52 | 29°21 | 14°39 | 4°46 | 28°34 | 16° 4 | 16°40 | 15°32 | 11°34 | n.a. |
| M14 | 20 37 46 | 7°41'48 | 25°23 | 23°24 | 10°27 | 10°34 | 29°30 | 14°42 | 4°46 | 28°33 | 16° 3 | 16°41 | 15°29 | 11°41 | n.a. |
| T 15 | 20 41 42 | 8°40'42 | 7B10 | 25° 6 | 11°42 | 11°15 | 29°38 | 14°45 | 4°47 | 28°32 | 16° 2 | 16°42 | 15°25 | 11°48 | n.a. |
| W16 | 20 45 39 | 9°39'39 | 18°59 | 26°51 | 12°57 | 11°56 | 29°47 | 14°48 | 4°47 | 28°31 | 16° 1 | 16°R43 | 15°22 | 11°54 | n.a. |
| T 17 | 20 49 35 | 10°38'37 | 0E51 | 28°37 | 14°12 | 12°38 | 29°55 | 14°51 | 4°48 | 28°30 | 15°59 | 16°42 | 15°19 | 12° 1 | n.a. |
| F 18 | 20 53 32 | 11°37'38 | 12°49 | 0O24 | 15°27 | 13°20 | 0II 3 | 14°53 | 4°48 | 28°29 | 15°58 | 16°40 | 15°16 | 12° 8 | n.a. |
| S 19 | 20 57 29 | 12°36'40 | 24°55 | 2°12 | 16°42 | 14° 1 | 0°11 | 14°56 | 4°48 | 28°28 | 15°57 | 16°37 | 15°13 | 12°14 | n.a. |
| S 20 | 21 1 25 | 13°35'45 | 7H11 | 4° 0 | 17°57 | 14°43 | 0°18 | 14°58 | 4°49 | 28°27 | 15°56 | 16°32 | 15°10 | 12°21 | n.a. |
| M21 | 21 5 22 | 14°34'52 | 19°38 | 5°49 | 19°12 | 15°25 | 0°26 | 15° 0 | 4°49 | 28°26 | 15°55 | 16°28 | 15° 6 | 12°28 | n.a. |
| T 22 | 21 9 18 | 15°34'02 | 2V17 | 7°38 | 20°27 | 16° 7 | 0°33 | 15° 2 | 4°49 | 28°25 | 15°54 | 16°23 | 15° 3 | 12°34 | n.a. |
| W23 | 21 13 15 | 16°33'13 | 15°10 | 9°27 | 21°42 | 16°49 | 0°41 | 15° 5 | 4°49 | 28°23 | 15°53 | 16°19 | 15° 0 | 12°41 | n.a. |
| T 24 | 21 17 11 | 17°32'28 | 28°17 | 11°15 | 22°57 | 17°31 | 0°48 | 15° 6 | 4R49 | 28°22 | 15°52 | 16°16 | 14°57 | 12°47 | n.a. |
| F 25 | 21 21 8 | 18°31'45 | 11B42 | 13° 4 | 24°13 | 18°13 | 0°55 | 15° 8 | 4°49 | 28°21 | 15°51 | 16°15 | 14°54 | 12°54 | n.a. |
| S 26 | 21 25 4 | 19°31'04 | 25°24 | 14°51 | 25°28 | 18°55 | 1° 2 | 15°10 | 4°49 | 28°20 | 15°50 | 16°D15 | 14°51 | 13° 1 | n.a. |
| S 27 | 21 29 1 | 20°30'26 | 9II24 | 16°39 | 26°43 | 19°37 | 1° 9 | 15°12 | 4°49 | 28°19 | 15°49 | 16°16 | 14°47 | 13° 7 | n.a. |
| M28 | 21 32 58 | 21°29'51 | 23°43 | 18°25 | 27°58 | 20°19 | 1°15 | 15°13 | 4°48 | 28°17 | 15°48 | 16°17 | 14°44 | 13°14 | n.a. |
| T 29 | 21 36 54 | 22°29'18 | 8E18 | 20°11 | 29°13 | 21° 2 | 1°22 | 15°15 | 4°48 | 28°16 | 15°47 | 16°18 | 14°41 | 13°21 | n.a. |
| W30 | 21 40 51 | 23°28'47 | 23° 5 | 21°57 | 0M28 | 21°44 | 1°28 | 15°16 | 4°48 | 28°15 | 15°46 | 16°R18 | 14°38 | 13°27 | n.a. |
| T 31 | 21 44 47 | 24O28'19 | 7O58 | 23O41 | 1M43 | 22M27 | 1II34 | 15B17 | 4B47 | 28H13 | 15B45 | 16B17 | 14B35 | 13B34 | n.a. |

Delta T = 09h33m44s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [7.2.2007]

SWISS EPHEMERIS for the year 1416 BCE

SEPTEMBER 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|------|--------|-------|--------|--------|--------|-------|-------|------|
| F 1 | 21 48 44 | 25♂27'53 | 22♂50 | 25♂25 | 2♂59 | 23♂9 | 1♂40 | 15♂18 | 4°R47 | 28°R12 | 15°R44 | 16°R13 | 14♂31 | 13♂41 | n.a. |
| S 2 | 21 52 40 | 26°27'29 | 7♂33 | 27°9 | 4°14 | 23°52 | 1°46 | 15°19 | 4♂47 | 28♂11 | 15♂43 | 16♂8 | 14°28 | 13°47 | n.a. |
| S 3 | 21 56 37 | 27°27'07 | 21°58 | 28°51 | 5°29 | 24°35 | 1°52 | 15°20 | 4°46 | 28°9 | 15°42 | 16°1 | 14°25 | 13°54 | n.a. |
| M 4 | 22 0 33 | 28°26'47 | 6♂50 | 0♂33 | 6°44 | 25°17 | 1°57 | 15°21 | 4°45 | 28°8 | 15°41 | 15°54 | 14°22 | 14°1 | n.a. |
| T 5 | 22 4 30 | 29°26'29 | 19°37 | 2°14 | 7°59 | 26°0 | 2°2 | 15°21 | 4°45 | 28°6 | 15°40 | 15°48 | 14°19 | 14°7 | n.a. |
| W 6 | 22 8 26 | 0♂26'13 | 2♂47 | 3°55 | 9°14 | 26°43 | 2°8 | 15°22 | 4°44 | 28°5 | 15°39 | 15°43 | 14°16 | 14°14 | n.a. |
| T 7 | 22 12 23 | 1°25'59 | 15°31 | 5°34 | 10°30 | 27°26 | 2°13 | 15°22 | 4°43 | 28°3 | 15°38 | 15°39 | 14°12 | 14°20 | n.a. |
| F 8 | 22 16 20 | 2°25'47 | 27°55 | 7°14 | 11°45 | 28°9 | 2°17 | 15°23 | 4°43 | 28°2 | 15°38 | 15°D38 | 14°9 | 14°27 | n.a. |
| S 9 | 22 20 16 | 3°25'37 | 10♂2 | 8°52 | 13°0 | 28°52 | 2°22 | 15°23 | 4°42 | 28°0 | 15°37 | 15°38 | 14°6 | 14°34 | n.a. |
| S 10 | 22 24 13 | 4°25'29 | 21°57 | 10°30 | 14°15 | 29°35 | 2°26 | 15°R23 | 4°41 | 27°59 | 15°36 | 15°39 | 14°3 | 14°40 | n.a. |
| M11 | 22 28 9 | 5°25'22 | 3♂45 | 12°7 | 15°30 | 0♂18 | 2°31 | 15°23 | 4°40 | 27°57 | 15°35 | 15°41 | 14°0 | 14°47 | n.a. |
| T 12 | 22 32 6 | 6°25'18 | 15°32 | 13°44 | 16°46 | 1°2 | 2°35 | 15°23 | 4°39 | 27°56 | 15°34 | 15°R41 | 13°57 | 14°54 | n.a. |
| W13 | 22 36 2 | 7°25'15 | 27°23 | 15°20 | 18°1 | 1°45 | 2°39 | 15°22 | 4°38 | 27°54 | 15°34 | 15°40 | 13°53 | 15°0 | n.a. |
| T 14 | 22 39 59 | 8°25'14 | 9♂20 | 16°55 | 19°16 | 2°28 | 2°43 | 15°22 | 4°37 | 27°53 | 15°33 | 15°37 | 13°50 | 15°7 | n.a. |
| F 15 | 22 43 56 | 9°25'15 | 21°28 | 18°30 | 20°31 | 3°12 | 2°46 | 15°21 | 4°36 | 27°51 | 15°32 | 15°32 | 13°47 | 15°14 | n.a. |
| S 16 | 22 47 52 | 10°25'18 | 3♂47 | 20°4 | 21°46 | 3°55 | 2°50 | 15°21 | 4°35 | 27°50 | 15°32 | 15°24 | 13°44 | 15°20 | n.a. |
| S 17 | 22 51 49 | 11°25'23 | 16°20 | 21°38 | 23°1 | 4°39 | 2°53 | 15°20 | 4°34 | 27°48 | 15°31 | 15°15 | 13°41 | 15°27 | n.a. |
| M18 | 22 55 45 | 12°25'30 | 29°6 | 23°11 | 24°17 | 5°22 | 2°56 | 15°19 | 4°32 | 27°46 | 15°31 | 15°4 | 13°37 | 15°34 | n.a. |
| T 19 | 22 59 42 | 13°25'39 | 12♂5 | 24°44 | 25°32 | 6°6 | 2°59 | 15°18 | 4°31 | 27°45 | 15°30 | 14°54 | 13°34 | 15°40 | n.a. |
| W20 | 23 3 38 | 14°25'50 | 25°16 | 26°16 | 26°47 | 6°50 | 3°1 | 15°17 | 4°30 | 27°43 | 15°29 | 14°44 | 13°31 | 15°47 | n.a. |
| T 21 | 23 7 35 | 15°26'03 | 8♂39 | 27°48 | 28°2 | 7°33 | 3°4 | 15°16 | 4°28 | 27°41 | 15°29 | 14°37 | 13°28 | 15°54 | n.a. |
| F 22 | 23 11 31 | 16°26'19 | 22°13 | 29°19 | 29°17 | 8°17 | 3°6 | 15°15 | 4°27 | 27°40 | 15°28 | 14°31 | 13°25 | 16°0 | n.a. |
| S 23 | 23 15 28 | 17°26'37 | 5♂50 | 0♂50 | 0♂32 | 9°1 | 3°8 | 15°13 | 4°25 | 27°38 | 15°28 | 14°29 | 13°22 | 16°7 | n.a. |
| S 24 | 23 19 24 | 18°26'57 | 19°51 | 2°20 | 1°48 | 9°45 | 3°10 | 15°12 | 4°24 | 27°36 | 15°27 | 14°D28 | 13°18 | 16°13 | n.a. |
| M25 | 23 23 21 | 19°27'19 | 3♂56 | 3°50 | 3°3 | 10°29 | 3°12 | 15°10 | 4°22 | 27°35 | 15°27 | 14°29 | 13°15 | 16°20 | n.a. |
| T 26 | 23 27 18 | 20°27'44 | 18°10 | 5°20 | 4°18 | 11°13 | 3°13 | 15°8 | 4°21 | 27°33 | 15°27 | 14°R29 | 13°12 | 16°27 | n.a. |
| W27 | 23 31 14 | 21°28'10 | 2♂33 | 6°49 | 5°33 | 11°58 | 3°15 | 15°7 | 4°19 | 27°31 | 15°26 | 14°28 | 13°9 | 16°33 | n.a. |
| T 28 | 23 35 11 | 22°28'39 | 17°1 | 8°17 | 6°48 | 12°42 | 3°16 | 15°5 | 4°17 | 27°30 | 15°26 | 14°24 | 13°6 | 16°40 | n.a. |
| F 29 | 23 39 7 | 23°29'09 | 1♂30 | 9°45 | 8°3 | 13°26 | 3°17 | 15°3 | 4°16 | 27°28 | 15°25 | 14°17 | 13°2 | 16°47 | n.a. |
| S 30 | 23 43 4 | 24♂29'42 | 15♂53 | 11♂13 | 9♂18 | 14♂10 | 3♂17 | 15♂0 | 4♂14 | 27♂26 | 15♂25 | 14♂8 | 12♂59 | 16♂53 | n.a. |

Delta T = 09h33m42s Julian Calendar 1 Sept. 1416 BCE == Greg. Calendar 19 Aug. 1416 BCE
 The year -1415 astronomical counting style corresponds to year 1416 B.C.E historical counting style.

OCTOBER 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|-------|-------|------|
| S 1 | 23 47 0 | 25♂30'16 | 0♂4 | 12♂39 | 10♂34 | 14♂55 | 3♂18 | 14°R58 | 4°R12 | 27°R25 | 15°R25 | 13°R57 | 12♂56 | 17♂0 | n.a. |
| M 2 | 23 50 57 | 26°30'52 | 13°58 | 14°6 | 11°49 | 15°39 | 3°18 | 14♂56 | 4♂10 | 27♂23 | 15♂25 | 13♂45 | 12°53 | 17°7 | n.a. |
| T 3 | 23 54 53 | 27°31'29 | 27°30 | 15°31 | 13°4 | 16°24 | 3°R18 | 14°53 | 4°8 | 27°21 | 15°24 | 13°33 | 12°50 | 17°13 | n.a. |
| W 4 | 23 58 50 | 28°32'08 | 10♂39 | 16°56 | 14°19 | 17°8 | 3°18 | 14°51 | 4°6 | 27°20 | 15°24 | 13°23 | 12°47 | 17°20 | n.a. |
| T 5 | 0 2 47 | 29°32'49 | 23°25 | 18°20 | 15°34 | 17°53 | 3°18 | 14°48 | 4°4 | 27°18 | 15°24 | 13°15 | 12°43 | 17°27 | n.a. |
| F 6 | 0 6 43 | 0♂33'31 | 5♂50 | 19°44 | 16°49 | 18°38 | 3°17 | 14°45 | 4°2 | 27°16 | 15°24 | 13°10 | 12°40 | 17°33 | n.a. |
| S 7 | 0 10 40 | 1°34'14 | 17°58 | 21°6 | 18°4 | 19°22 | 3°17 | 14°42 | 4°0 | 27°14 | 15°24 | 13°8 | 12°37 | 17°40 | n.a. |
| S 8 | 0 14 36 | 2°34'59 | 29°54 | 22°27 | 19°19 | 20°7 | 3°16 | 14°39 | 3°58 | 27°13 | 15°23 | 13°D7 | 12°34 | 17°46 | n.a. |
| M 9 | 0 18 33 | 3°35'45 | 11♂42 | 23°47 | 20°35 | 20°52 | 3°15 | 14°36 | 3°56 | 27°11 | 15°23 | 13°R7 | 12°31 | 17°53 | n.a. |
| T 10 | 0 22 29 | 4°36'32 | 23°30 | 25°6 | 21°50 | 21°37 | 3°13 | 14°33 | 3°54 | 27°9 | 15°23 | 13°7 | 12°28 | 18°0 | n.a. |
| W11 | 0 26 26 | 5°37'20 | 5♂22 | 26°23 | 23°5 | 22°22 | 3°12 | 14°30 | 3°52 | 27°8 | 15°23 | 13°5 | 12°24 | 18°6 | n.a. |
| T 12 | 0 30 22 | 6°38'10 | 17°23 | 27°39 | 24°20 | 23°7 | 3°10 | 14°27 | 3°50 | 27°6 | 15°D23 | 13°1 | 12°21 | 18°13 | n.a. |
| F 13 | 0 34 19 | 7°39'01 | 29°37 | 28°53 | 25°35 | 23°52 | 3°8 | 14°23 | 3°48 | 27°4 | 15°23 | 12°54 | 12°18 | 18°20 | n.a. |
| S 14 | 0 38 16 | 8°39'52 | 12♂8 | 0♂5 | 26°50 | 24°37 | 3°6 | 14°20 | 3°45 | 27°3 | 15°23 | 12°44 | 12°15 | 18°26 | n.a. |
| S 15 | 0 42 12 | 9°40'46 | 24°57 | 1°14 | 28°5 | 25°22 | 3°4 | 14°16 | 3°43 | 27°1 | 15°23 | 12°32 | 12°12 | 18°33 | n.a. |
| M16 | 0 46 9 | 10°41'40 | 8♂3 | 2°20 | 29°20 | 26°7 | 3°2 | 14°13 | 3°41 | 26°59 | 15°23 | 12°19 | 12°8 | 18°40 | n.a. |
| T 17 | 0 50 5 | 11°42'36 | 21°26 | 3°23 | 0♂35 | 26°53 | 2°59 | 14°9 | 3°39 | 26°58 | 15°24 | 12°5 | 12°5 | 18°46 | n.a. |
| W18 | 0 54 2 | 12°43'33 | 5♂2 | 4°23 | 1°50 | 27°38 | 2°56 | 14°5 | 3°36 | 26°56 | 15°24 | 11°53 | 12°2 | 18°53 | n.a. |
| T 19 | 0 57 58 | 13°44'31 | 18°50 | 5°18 | 3°5 | 28°23 | 2°53 | 14°1 | 3°34 | 26°55 | 15°24 | 11°43 | 11°59 | 19°0 | n.a. |
| F 20 | 1 1 55 | 14°45'31 | 2♂44 | 6°9 | 4°20 | 29°9 | 2°50 | 13°57 | 3°31 | 26°53 | 15°24 | 11°36 | 11°56 | 19°6 | n.a. |
| S 21 | 1 5 51 | 15°46'32 | 16°44 | 6°54 | 5°35 | 29°54 | 2°46 | 13°53 | 3°29 | 26°51 | 15°24 | 11°32 | 11°53 | 19°13 | n.a. |
| S 22 | 1 9 48 | 16°47'35 | 0♂46 | 7°34 | 6°50 | 0♂40 | 2°43 | 13°49 | 3°27 | 26°50 | 15°25 | 11°30 | 11°49 | 19°20 | n.a. |
| M23 | 1 13 45 | 17°48'39 | 14°50 | 8°6 | 8°5 | 1°25 | 2°39 | 13°45 | 3°24 | 26°48 | 15°25 | 11°30 | 11°46 | 19°26 | n.a. |
| T 24 | 1 17 41 | 18°49'44 | 28°54 | 8°31 | 9°19 | 2°11 | 2°35 | 13°41 | 3°22 | 26°47 | 15°25 | 11°30 | 11°43 | 19°33 | n.a. |
| W25 | 1 21 38 | 19°50'51 | 12♂59 | 8°47 | 10°34 | 2°56 | 2°31 | 13°36 | 3°19 | 26°45 | 15°25 | 11°28 | 11°40 | 19°39 | n.a. |
| T 26 | 1 25 34 | 20°51'59 | 27°3 | 8°R54 | 11°49 | 3°42 | 2°26 | 13°32 | 3°17 | 26°44 | 15°26 | 11°24 | 11°37 | 19°46 | n.a. |
| F 27 | 1 29 31 | 21°53'08 | 11♂5 | 8°51 | 13°4 | 4°28 | 2°22 | 13°27 | 3°14 | 26°42 | 15°26 | 11°17 | 11°34 | 19°53 | n.a. |
| S 28 | 1 33 27 | 22°54'18 | 25°0 | 8°38 | 14°19 | 5°14 | 2°17 | 13°23 | 3°12 | 26°41 | 15°27 | 11°8 | 11°30 | 19°59 | n.a. |
| S 29 | 1 37 24 | 23°55'29 | 8♂46 | 8°13 | 15°34 | 5°59 | 2°12 | 13°18 | 3°9 | 26°39 | 15°27 | 10°56 | 11°27 | 20°6 | n.a. |
| M30 | 1 41 20 | 24°56'41 | 22°19 | 7°37 | 16°49 | 6°45 | 2°7 | 13°14 | 3°7 | 26°38 | 15°28 | 10°43 | 11°24 | 20°13 | n.a. |
| T 31 | 1 45 17 | 25♂57'54 | 5♂36 | 6♂49 | 18♂4 | 7♂31 | 2♂2 | 13♂9 | 3♂4 | 26♂36 | 15♂28 | 10♂30 | 11♂21 | 20♂19 | n.a. |

Delta T = 09h33m40s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [7.2.2007]

SWISS EPHEMERIS for the year 1416 BCE

NOVEMBER 1416 BCE (-1415) JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♁ | ♂ | ♆ | ♅ | |
|------|---------|-----------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------|
| W 1 | 1 49 13 | 26 ⁵⁹ 07 | 18 ¹¹ 35 | 5 ^R 51 | 19 ^M 19 | 8 ^M 17 | 1 ^R 57 | 13 ^R 5 | 3 ^R 2 | 26 ^R 35 | 15 ³ 29 | 10 ^R 19 | 11 ³ 18 | 20 ³ 26 | n.a. |
| T 2 | 1 53 10 | 28 ⁰ 22 | 1 ⁷ 15 | 4 ^M 44 | 20 ³ 33 | 9 ⁰ 3 | 1 ^I 51 | 13 ⁸ 0 | 2 ⁸ 59 | 26 ³ 33 | 15 ² 29 | 10 ³ 10 | 11 ¹ 14 | 20 ³ 33 | n.a. |
| F 3 | 1 57 7 | 29 ⁰ 17 | 13 ³ 37 | 3 ² 29 | 21 ⁴ 48 | 9 ⁰ 49 | 1 ⁴ 5 | 12 ⁵ 55 | 2 ⁵ 7 | 26 ³ 32 | 15 ³ 30 | 10 ⁰ 4 | 11 ¹ 11 | 20 ³ 39 | n.a. |
| S 4 | 2 1 3 | 0 ^M 2'52 | 25 ⁴ 43 | 2 ⁰ 9 | 23 ⁰ 3 | 10 ³ 35 | 1 ⁴ 40 | 12 ⁵ 50 | 2 ⁵ 4 | 26 ³ 31 | 15 ³ 30 | 10 ⁰ 1 | 11 ⁰ 8 | 20 ⁴ 46 | n.a. |
| S 5 | 2 5 0 | 1 ⁰ 4'07 | 7 ³ 39 | 0 ⁴ 47 | 24 ⁰ 18 | 11 ² 22 | 1 ³ 34 | 12 ⁴ 45 | 2 ⁵ 2 | 26 ² 29 | 15 ³ 31 | 10 ^D 0 | 11 ⁰ 5 | 20 ⁵ 53 | n.a. |
| M 6 | 2 8 56 | 2 ⁰ 5'23 | 19 ² 28 | 29 ² 24 | 25 ³ 33 | 12 ⁰ 8 | 1 ² 27 | 12 ⁴ 41 | 2 ⁴ 9 | 26 ² 28 | 15 ³ 31 | 10 ⁰ 0 | 11 ⁰ 2 | 20 ⁵ 59 | n.a. |
| T 7 | 2 12 53 | 3 ⁰ 6'40 | 1 ⁸ 15 | 28 ⁰ 5 | 26 ⁴ 47 | 12 ⁵ 4 | 1 ² 21 | 12 ³ 36 | 2 ⁴ 6 | 26 ² 27 | 15 ³ 32 | 10 ^R 0 | 10 ⁵ 9 | 21 ⁰ 6 | n.a. |
| W 8 | 2 16 49 | 4 ⁰ 7'56 | 13 ³ 7 | 26 ⁵ 51 | 28 ⁰ 2 | 13 ⁴ 40 | 1 ⁰ 15 | 12 ³ 31 | 2 ⁴ 4 | 26 ² 25 | 15 ³ 33 | 10 ⁰ 0 | 10 ⁵ 5 | 21 ¹ 13 | n.a. |
| T 9 | 2 20 46 | 5 ⁰ 9'12 | 25 ⁰ 8 | 25 ⁴ 45 | 29 ⁰ 17 | 14 ² 27 | 1 ⁰ 8 | 12 ² 26 | 2 ⁴ 1 | 26 ² 24 | 15 ³ 33 | 9 ⁵ 58 | 10 ⁵ 2 | 21 ⁰ 19 | n.a. |
| F 10 | 2 24 42 | 6 ⁰ 10'29 | 7 ³ 24 | 24 ⁴ 47 | 0 ⁷ 31 | 15 ¹ 13 | 1 ⁰ 1 | 12 ² 21 | 2 ³ 9 | 26 ² 23 | 15 ³ 34 | 9 ⁵ 53 | 10 ⁴ 9 | 21 ² 26 | n.a. |
| S 11 | 2 28 39 | 7 ⁰ 11'45 | 19 ² 59 | 24 ⁰ 0 | 1 ⁴ 46 | 15 ⁵ 59 | 0 ⁵ 55 | 12 ¹ 16 | 2 ³ 6 | 26 ² 22 | 15 ³ 35 | 9 ⁴ 46 | 10 ⁴ 6 | 21 ³ 32 | n.a. |
| S 12 | 2 32 36 | 8 ⁰ 13'02 | 2 ⁹ 56 | 23 ² 24 | 3 ⁰ 1 | 16 ⁴ 46 | 0 ⁴ 48 | 12 ¹ 11 | 2 ³ 4 | 26 ² 21 | 15 ³ 36 | 9 ³ 37 | 10 ⁴ 3 | 21 ³ 39 | n.a. |
| M 13 | 2 36 32 | 9 ⁰ 14'19 | 16 ¹ 16 | 22 ⁵ 59 | 4 ¹ 5 | 17 ³ 32 | 0 ⁴ 41 | 12 ⁰ 6 | 2 ³ 1 | 26 ¹ 19 | 15 ³ 37 | 9 ² 26 | 10 ³ 9 | 21 ⁴ 46 | n.a. |
| T 14 | 2 40 29 | 10 ⁰ 15'36 | 29 ⁵ 57 | 22 ⁴ 44 | 5 ³ 10 | 18 ¹ 18 | 0 ³ 34 | 12 ⁰ 1 | 2 ² 9 | 26 ¹ 18 | 15 ³ 37 | 9 ¹ 16 | 10 ³ 6 | 21 ⁵ 52 | n.a. |
| W 15 | 2 44 25 | 11 ⁰ 16'53 | 13 ⁸ 57 | 22 ^D 40 | 6 ⁴ 5 | 19 ⁰ 5 | 0 ² 26 | 11 ⁵ 56 | 2 ² 6 | 26 ¹ 17 | 15 ³ 38 | 9 ⁰ 6 | 10 ³ 3 | 21 ⁵ 59 | n.a. |
| T 16 | 2 48 22 | 12 ⁰ 18'11 | 28 ⁰ 11 | 22 ⁴ 45 | 7 ⁵ 9 | 19 ⁵ 2 | 0 ¹ 9 | 11 ⁵ 51 | 2 ² 4 | 26 ¹ 16 | 15 ³ 39 | 8 ⁵ 58 | 10 ³ 0 | 22 ⁰ 6 | n.a. |
| F 17 | 2 52 18 | 13 ⁰ 19'28 | 12 ¹¹ 34 | 22 ⁵ 58 | 9 ¹ 4 | 20 ³ 38 | 0 ¹ 2 | 11 ⁴ 46 | 2 ² 1 | 26 ¹ 15 | 15 ⁴ 40 | 8 ⁵ 3 | 10 ² 7 | 22 ¹ 12 | n.a. |
| S 18 | 2 56 15 | 14 ⁰ 20'46 | 27 ⁰ 0 | 23 ² 20 | 10 ² 24 | 21 ² 25 | 0 ⁰ 4 | 11 ⁴ 41 | 2 ¹ 9 | 26 ¹ 14 | 15 ⁴ 41 | 8 ⁵ 0 | 10 ² 4 | 22 ¹ 19 | n.a. |
| S 19 | 3 0 11 | 15 ⁰ 22'04 | 11 ³ 23 | 23 ⁴ 49 | 11 ⁴ 43 | 22 ⁰ 11 | 29 ⁸ 57 | 11 ³ 36 | 2 ¹ 6 | 26 ¹ 13 | 15 ⁴ 42 | 8 ^D 49 | 10 ² 0 | 22 ² 26 | n.a. |
| M 20 | 3 4 8 | 16 ⁰ 23'23 | 25 ⁴ 42 | 24 ² 25 | 12 ⁵ 7 | 22 ⁵ 58 | 29 ⁴ 9 | 11 ³ 31 | 2 ¹ 4 | 26 ¹ 12 | 15 ⁴ 43 | 8 ⁵ 0 | 10 ¹ 7 | 22 ² 32 | n.a. |
| T 21 | 3 8 5 | 17 ⁰ 24'41 | 9 ⁹ 52 | 25 ⁰ 7 | 14 ¹ 12 | 23 ⁴ 45 | 29 ⁴ 11 | 11 ² 26 | 2 ¹ 1 | 26 ¹ 11 | 15 ⁴ 44 | 8 ⁵ 1 | 10 ¹ 4 | 22 ² 39 | n.a. |
| W 22 | 3 12 1 | 18 ⁰ 26'00 | 23 ⁵ 53 | 25 ⁵ 53 | 15 ² 26 | 24 ³ 1 | 29 ³ 33 | 11 ² 21 | 2 ⁰ 9 | 26 ¹ 10 | 15 ⁴ 45 | 8 ^R 51 | 10 ¹ 1 | 22 ² 46 | n.a. |
| T 23 | 3 15 58 | 19 ⁰ 27'19 | 7 ¹⁷ 45 | 26 ⁴ 45 | 16 ⁴ 40 | 25 ¹ 18 | 29 ² 6 | 11 ¹ 16 | 2 ⁰ 6 | 26 ⁰ 9 | 15 ⁴ 46 | 8 ⁴ 9 | 10 ⁰ 8 | 22 ² 52 | n.a. |
| F 24 | 3 19 54 | 20 ⁰ 28'38 | 21 ² 26 | 27 ⁴ 40 | 17 ⁵ 5 | 26 ⁰ 5 | 29 ¹ 8 | 11 ¹ 11 | 2 ⁰ 4 | 26 ⁰ 9 | 15 ⁴ 47 | 8 ⁴ 5 | 10 ⁰ 5 | 22 ² 59 | n.a. |
| S 25 | 3 23 51 | 21 ⁰ 29'56 | 4 ² 57 | 28 ³ 39 | 19 ⁰ 9 | 26 ⁵ 2 | 29 ¹ 0 | 11 ⁰ 6 | 2 ⁰ 1 | 26 ⁰ 8 | 15 ⁴ 48 | 8 ³ 9 | 10 ⁰ 1 | 23 ⁰ 6 | n.a. |
| S 26 | 3 27 47 | 22 ⁰ 31'15 | 18 ¹ 17 | 29 ⁴ 42 | 20 ² 24 | 27 ³ 39 | 29 ⁰ 2 | 11 ⁰ 1 | 1 ⁵ 9 | 26 ⁰ 7 | 15 ⁴ 49 | 8 ³ 2 | 9 ⁵ 58 | 23 ⁰ 12 | n.a. |
| M 27 | 3 31 44 | 23 ⁰ 32'34 | 1 ¹¹ 24 | 0 ^M 47 | 21 ³ 38 | 28 ² 26 | 28 ⁵ 4 | 10 ⁵ 7 | 1 ⁵ 7 | 26 ⁰ 6 | 15 ⁵ 0 | 8 ² 3 | 9 ⁵ 5 | 23 ¹ 9 | n.a. |
| T 28 | 3 35 40 | 24 ⁰ 33'53 | 14 ¹ 18 | 1 ⁵ 5 | 22 ⁵ 2 | 29 ¹ 2 | 28 ⁴ 6 | 10 ⁵ 2 | 1 ⁵ 4 | 26 ⁰ 5 | 15 ⁵ 1 | 8 ¹ 5 | 9 ⁵ 2 | 23 ² 6 | n.a. |
| W 29 | 3 39 37 | 25 ⁰ 35'11 | 26 ⁰ 59 | 3 ⁰ 5 | 24 ⁰ 6 | 29 ⁵ 9 | 28 ³ 8 | 10 ⁴ 7 | 1 ⁵ 2 | 26 ⁰ 5 | 15 ⁵ 3 | 8 ⁰ 8 | 9 ⁴ 9 | 23 ³ 2 | n.a. |
| T 30 | 3 43 34 | 26 ⁰ 36'29 | 9 ⁷ 25 | 4 ^M 17 | 25 ⁷ 21 | 0 ⁷ 46 | 28 ⁸ 29 | 10 ⁸ 42 | 1 ⁸ 50 | 26 ⁰ 4 | 15 ⁵ 4 | 8 ³ 2 | 9 ⁴ 5 | 23 ³ 9 | n.a. |

Delta T = 09h33m38s Julian Calendar 1 Nov. 1416 BCE == Greg. Calendar 19 Oct. 1416 BCE
 The year -1415 astronomical counting style corresponds to year 1416 B.C.E historical counting style.

DECEMBER 1416 BCE (-1415) JC

00:00 UT

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