

SWISS EPHEMERIS for the year 191

JANUARY 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|----------|---|------|
| F 1 | 6 36 54 | 10°13'59" | 7°02'28" | 5°30'59" | 8°48'48" | 20°45'45" | 17°05'07" | 1°17'02" | 4°R 6 | 15°20'22" | 16°R50 | 13°R25 | 13°05'33" | 2°59'59" | | n.a. |
| S 2 | 6 40 51 | 11°14'57" | 19°31'00" | 6°44'00" | 10°02'00" | 21°11'00" | 17°13'00" | 1°08'00" | 4°E 4 | 15°24'00" | 16°II49 | 13°05'14" | 13°30'00" | 3°06'00" | | n.a. |
| S 3 | 6 44 47 | 12°15'54" | 1°11'41" | 8°25'00" | 11°16'00" | 21°38'00" | 17°19'00" | 1°14'00" | 4° 1 | 15°27'00" | 16°48'00" | 13°06'00" | 13°27'00" | 3°13'00" | | n.a. |
| M 4 | 6 48 44 | 13°16'51" | 14°01'00" | 10°06'00" | 12°30'00" | 22°04'00" | 17°24'00" | 1°20'00" | 3°59'00" | 15°29'00" | 16°46'00" | 13°01'00" | 13°24'00" | 3°20'00" | | n.a. |
| T 5 | 6 52 40 | 14°17'46" | 26°34'00" | 11°49'00" | 13°44'00" | 22°31'00" | 17°30'00" | 1°25'00" | 3°56'00" | 15°31'00" | 16°45'00" | 12°59'00" | 13°21'00" | 3°26'00" | | n.a. |
| W 6 | 6 56 37 | 15°18'40" | 9°05'25" | 13°31'00" | 14°58'00" | 22°58'00" | 17°35'00" | 1°31'00" | 3°53'00" | 15°34'00" | 16°44'00" | 12°58'00" | 13°17'00" | 3°33'00" | | n.a. |
| T 7 | 7 0 33 | 16°19'34" | 22°37'00" | 15°15'00" | 16°12'00" | 23°25'00" | 17°40'00" | 1°37'00" | 3°51'00" | 15°36'00" | 16°43'00" | 12°58'00" | 13°14'00" | 3°40'00" | | n.a. |
| F 8 | 7 4 30 | 17°20'26" | 6°11'14" | 16°59'00" | 17°26'00" | 23°52'00" | 17°45'00" | 1°42'00" | 3°48'00" | 15°38'00" | 16°42'00" | 12°57'00" | 13°11'00" | 3°46'00" | | n.a. |
| S 9 | 7 8 27 | 18°21'18" | 20°18'00" | 18°44'00" | 18°40'00" | 24°20'00" | 17°49'00" | 1°48'00" | 3°46'00" | 15°40'00" | 16°41'00" | 12°54'00" | 13°08'00" | 3°53'00" | | n.a. |
| S 10 | 7 12 23 | 19°22'09" | 4°17'50" | 20°30'00" | 19°54'00" | 24°47'00" | 17°54'00" | 1°53'00" | 3°43'00" | 15°43'00" | 16°40'00" | 12°49'00" | 13°05'00" | 4°00'00" | | n.a. |
| M11 | 7 16 20 | 20°22'58" | 19°45'00" | 22°16'00" | 21°07'00" | 25°15'00" | 17°58'00" | 1°59'00" | 3°41'00" | 15°45'00" | 16°39'00" | 12°41'00" | 13°02'00" | 4°07'00" | | n.a. |
| T 12 | 7 20 16 | 21°23'47" | 4°35'57" | 24°03'00" | 22°21'00" | 25°43'00" | 18°03'00" | 2°04'00" | 3°38'00" | 15°47'00" | 16°38'00" | 12°30'00" | 12°58'00" | 4°13'00" | | n.a. |
| W13 | 7 24 13 | 22°24'34" | 20°15'00" | 25°51'00" | 23°35'00" | 26°12'00" | 18°07'00" | 2°10'00" | 3°36'00" | 15°49'00" | 16°37'00" | 12°18'00" | 12°55'00" | 4°20'00" | | n.a. |
| T 14 | 7 28 09 | 23°25'19" | 5°05'29" | 27°39'00" | 24°48'00" | 26°40'00" | 18°10'00" | 2°15'00" | 3°34'00" | 15°52'00" | 16°36'00" | 12°07'00" | 12°52'00" | 4°27'00" | | n.a. |
| F 15 | 7 32 06 | 24°26'03" | 20°26'00" | 29°28'00" | 26°02'00" | 27°09'00" | 18°14'00" | 2°20'00" | 3°31'00" | 15°54'00" | 16°35'00" | 11°58'00" | 12°49'00" | 4°34'00" | | n.a. |
| S 16 | 7 36 03 | 25°26'46" | 4°15'59" | 18°17'00" | 27°15'00" | 27°38'00" | 18°18'00" | 2°25'00" | 3°29'00" | 15°56'00" | 16°34'00" | 11°50'00" | 12°46'00" | 4°40'00" | | n.a. |
| S 17 | 7 39 59 | 26°27'26" | 19°04'00" | 3°07'00" | 28°29'00" | 28°07'00" | 18°21'00" | 2°30'00" | 3°26'00" | 15°58'00" | 16°33'00" | 11°46'00" | 12°43'00" | 4°47'00" | | n.a. |
| M18 | 7 43 56 | 27°28'05" | 19°13'38" | 4°57'00" | 29°42'00" | 28°37'00" | 18°24'00" | 2°35'00" | 3°24'00" | 16°01'00" | 16°32'00" | 11°44'00" | 12°39'00" | 4°54'00" | | n.a. |
| T 19 | 7 47 52 | 28°28'42" | 15°44'00" | 6°47'00" | 0°15'55" | 29°06'00" | 18°27'00" | 2°40'00" | 3°22'00" | 16°03'00" | 16°31'00" | 11°D44 | 12°36'00" | 5°00'00" | | n.a. |
| W20 | 7 51 49 | 29°29'17" | 28°26'00" | 8°38'00" | 2°09'00" | 29°36'00" | 18°30'00" | 2°45'00" | 3°19'00" | 16°05'00" | 16°31'00" | 11°R44 | 12°33'00" | 5°07'00" | | n.a. |
| T 21 | 7 55 45 | 00°29'50" | 10°08'48" | 10°28'00" | 3°22'00" | 0°05'00" | 18°33'00" | 2°50'00" | 3°17'00" | 16°07'00" | 16°30'00" | 11°44'00" | 12°30'00" | 5°14'00" | | n.a. |
| F 22 | 7 59 42 | 1°30'21" | 22°55'00" | 12°18'00" | 4°35'00" | 0°35'00" | 18°35'00" | 2°55'00" | 3°15'00" | 16°10'00" | 16°29'00" | 11°42'00" | 12°27'00" | 5°21'00" | | n.a. |
| S 23 | 8 3 38 | 2°30'51" | 4°11'53" | 14°07'00" | 5°48'00" | 1°06'00" | 18°37'00" | 2°59'00" | 3°13'00" | 16°12'00" | 16°28'00" | 11°37'00" | 12°23'00" | 5°27'00" | | n.a. |
| S 24 | 8 7 35 | 3°31'18" | 16°45'00" | 15°55'00" | 7°01'00" | 1°36'00" | 18°39'00" | 3°04'00" | 3°11'00" | 16°14'00" | 16°27'00" | 11°29'00" | 12°20'00" | 5°34'00" | | n.a. |
| M25 | 8 11 32 | 4°31'44" | 28°36'00" | 17°42'00" | 8°14'00" | 2°06'00" | 18°41'00" | 3°09'00" | 3°09'00" | 16°16'00" | 16°26'00" | 11°19'00" | 12°17'00" | 5°41'00" | | n.a. |
| T 26 | 8 15 28 | 5°32'07" | 10°05'28" | 19°28'00" | 9°27'00" | 2°37'00" | 18°43'00" | 3°13'00" | 3°06'00" | 16°18'00" | 16°26'00" | 11°08'00" | 12°14'00" | 5°47'00" | | n.a. |
| W27 | 8 19 25 | 6°32'29" | 22°23'00" | 21°11'00" | 10°39'00" | 3°07'00" | 18°44'00" | 3°17'00" | 3°04'00" | 16°21'00" | 16°25'00" | 10°55'00" | 12°11'00" | 5°54'00" | | n.a. |
| T 28 | 8 23 21 | 7°32'49" | 4°02'24" | 22°52'00" | 11°52'00" | 3°38'00" | 18°46'00" | 3°22'00" | 3°02'00" | 16°23'00" | 16°24'00" | 10°42'00" | 12°08'00" | 6°01'00" | | n.a. |
| F 29 | 8 27 18 | 8°33'07" | 16°30'00" | 24°30'00" | 13°05'00" | 4°09'00" | 18°47'00" | 3°26'00" | 3°00'00" | 16°25'00" | 16°24'00" | 10°31'00" | 12°04'00" | 6°08'00" | | n.a. |
| S 30 | 8 31 14 | 9°33'23" | 28°44'00" | 26°04'00" | 14°17'00" | 4°40'00" | 18°48'00" | 3°30'00" | 2°58'00" | 16°27'00" | 16°23'00" | 10°22'00" | 12°01'00" | 6°14'00" | | n.a. |
| S 31 | 8 35 11 | 10°33'38" | 11°11'06" | 27°05'34" | 15°15'30" | 5°05'11" | 18°49'00" | 3°17'34" | 2°56'06" | 16°29'00" | 16°II22 | 10°05'15" | 11°05'58" | 6°05'21" | | n.a. |

Delta T = 8615.35 sec.

Julian Calendar 1 Jan. 191 == Greg. Calendar 31 Dec. 190

FEBRUARY 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|----------|-------------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|----------|---|------|
| M 1 | 8 39 07 | 11°33'50" | 23°11'38" | 29°00'00" | 16°16'42" | 5°05'43" | 18°49'00" | 3°17'38" | 2°R55 | 16°20'31" | 16°R22 | 10°R11 | 11°05'55" | 6°05'28" | | n.a. |
| T 2 | 8 43 04 | 12°34'01" | 6°05'21" | 0°12'20" | 17°54'00" | 6°14'00" | 18°50'00" | 3°42'00" | 2°E53 | 16°33'00" | 16°II21 | 10°D10 | 11°52'00" | 6°35'00" | | n.a. |
| W 3 | 8 47 00 | 13°34'11" | 19°18'00" | 1°34'00" | 19°07'00" | 6°45'00" | 18°50'00" | 3°46'00" | 2°51'00" | 16°35'00" | 16°20'00" | 10°05'10" | 11°48'00" | 6°41'00" | | n.a. |
| T 4 | 8 50 57 | 14°34'18" | 2°11'32" | 2°41'00" | 20°19'00" | 7°17'00" | 18°R50 | 3°50'00" | 2°49'00" | 16°38'00" | 16°20'00" | 10°11'00" | 11°45'00" | 6°48'00" | | n.a. |
| F 5 | 8 54 54 | 15°34'25" | 16°05'00" | 3°41'00" | 21°31'00" | 7°49'00" | 18°50'00" | 3°53'00" | 2°47'00" | 16°40'00" | 16°19'00" | 10°R11 | 11°42'00" | 6°55'00" | | n.a. |
| S 6 | 8 58 50 | 16°34'29" | 0°17'00" | 4°34'00" | 22°43'00" | 8°21'00" | 18°49'00" | 3°57'00" | 2°46'00" | 16°42'00" | 16°19'00" | 10°11'00" | 11°39'00" | 7°01'00" | | n.a. |
| S 7 | 9 02 47 | 17°34'32" | 14°15'00" | 5°19'00" | 23°55'00" | 8°53'00" | 18°49'00" | 4°00'00" | 2°44'00" | 16°44'00" | 16°18'00" | 10°08'00" | 11°36'00" | 7°08'00" | | n.a. |
| M 8 | 9 06 43 | 18°34'33" | 28°50'00" | 5°55'00" | 25°07'00" | 9°25'00" | 18°48'00" | 4°04'00" | 2°43'00" | 16°46'00" | 16°18'00" | 10°03'00" | 11°33'00" | 7°15'00" | | n.a. |
| T 9 | 9 10 40 | 19°34'33" | 13°03'41" | 6°22'00" | 26°18'00" | 9°57'00" | 18°47'00" | 4°07'00" | 2°41'00" | 16°48'00" | 16°17'00" | 9°56'00" | 11°29'00" | 7°22'00" | | n.a. |
| W10 | 9 14 36 | 20°34'30" | 28°39'00" | 6°41'00" | 27°30'00" | 10°29'00" | 18°46'00" | 4°10'00" | 2°39'00" | 16°50'00" | 16°17'00" | 9°48'00" | 11°26'00" | 7°28'00" | | n.a. |
| T 11 | 9 18 33 | 21°34'26" | 13°05'37" | 6°50'00" | 28°42'00" | 11°01'00" | 18°45'00" | 4°13'00" | 2°38'00" | 16°52'00" | 16°16'00" | 9°40'00" | 11°23'00" | 7°35'00" | | n.a. |
| F 12 | 9 22 29 | 22°34'20" | 28°24'00" | 6°R51 | 29°53'00" | 11°34'00" | 18°43'00" | 4°17'00" | 2°37'00" | 16°54'00" | 16°16'00" | 9°34'00" | 11°20'00" | 7°42'00" | | n.a. |
| S 13 | 9 26 26 | 23°34'11" | 12°15'54" | 6°43'00" | 1°15'05" | 12°06'00" | 18°41'00" | 4°20'00" | 2°35'00" | 16°56'00" | 16°15'00" | 9°29'00" | 11°17'00" | 7°49'00" | | n.a. |
| S 14 | 9 30 23 | 24°34'01" | 26°59'00" | 6°26'00" | 2°16'00" | 12°39'00" | 18°40'00" | 4°22'00" | 2°34'00" | 16°57'00" | 16°15'00" | 9°26'00" | 11°14'00" | 7°55'00" | | n.a. |
| M15 | 9 34 19 | 25°33'48" | 10°15'38" | 6°02'00" | 3°27'00" | 13°12'00" | 18°37'00" | 4°25'00" | 2°33'00" | 16°59'00" | 16°15'00" | 9°D25 | 11°10'00" | 8°02'00" | | n.a. |
| T 16 | 9 38 16 | 26°33'33" | 23°50'00" | 5°30'00" | 4°38'00" | 13°45'00" | 18°35'00" | 4°28'00" | 2°31'00" | 17°01'00" | 16°14'00" | 9°26'00" | 11°07'00" | 8°09'00" | | n.a. |
| W17 | 9 42 12 | 27°33'15" | 6°05'38" | 4°52'00" | 5°49'00" | 14°18'00" | 18°33'00" | 4°31'00" | 2°30'00" | 17°03'00" | 16°14'00" | 9°28'00" | 11°04'00" | 8°15'00" | | n.a. |
| T 18 | 9 46 09 | 28°32'55" | 19°05'00" | 4°08'00" | 7°00'00" | 14°51'00" | 18°30'00" | 4°33'00" | 2°29'00" | 17°05'00" | 16°14'00" | 9°29'00" | 11°01'00" | 8°22'00" | | n.a. |
| F 19 | 9 50 05 | 29°32'33" | 1°11'16" | 3°20'00" | 8°11'00" | 15°24'00" | 18°27'00" | 4°35'00" | 2°28'00" | 17°07'00" | 16°14'00" | 9°R29 | 10°58'00" | 8°29'00" | | n.a. |
| S 20 | 9 54 02 | 0°13'20'09" | 13°16'00" | 2°28'00" | 9°21'00" | 15°57'00" | 18°24'00" | 4°38'00" | 2°27'00" | 17°08'00" | 16°13'00" | 9°28'00" | 10°54'00" | 8°36'00" | | n.a. |
| S 21 | 9 57 58 | 1°13'42" | 25°09'00" | 1°34'00" | 10°32'00" | 16°30'00" | 18°21'00" | 4°40'00" | 2°26'00" | 17°10'00" | 16°13'00" | 9°26'00" | 10°51'00" | 8°42'00" | | n.a. |
| M22 | 10 01 55 | 2°13'13" | 7°05'00" | 0°39'00" | 11°42'00" | 17°03'00" | 18°18'00" | 4°42'00" | 2°25'00" | 17°12'00" | 16°13'00" | 9°21'00" | 10°48'00" | 8°49'00" | | n.a. |
| T 23 | 10 05 52 | 3°13'01" | 18°54'00" | 29°05'44" | 12°52'00" | 17°37'00" | 18°14'00" | 4°44'00" | 2°24'00" | 17°14'00" | 16°13'00" | 9°16'00" | | | | |

SWISS EPHEMERIS for the year 191

MARCH 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|-----|----------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|-------------------|------|
| M 1 | 10 29 31 | 9 ^h 26'45 | 3 ^h 12 | 25°R13 | 19 ^h 51 | 20 ^h 58 | 17°R50 | 4 ^h 55 | 2°R20 | 17 ^h 24 | 16 ^h 12 | 8 ^h 49 | 10 ^h 26 | 9 ^h 36 | n.a. |
| T 2 | 10 33 27 | 10°25'58 | 16°15 | 24 ^h 43 | 21° 1 | 21°32 | 17 ^h 45 | 4°56 | 2 ^h 19 | 17°25 | 16°12 | 8°49 | 10°23 | 9°43 | n.a. |
| W 3 | 10 37 24 | 11°25'09 | 29°31 | 24°20 | 22°10 | 22° 6 | 17°41 | 4°57 | 2°19 | 17°27 | 16°12 | 8°50 | 10°20 | 9°50 | n.a. |
| T 4 | 10 41 21 | 12°24'19 | 12 ^h 59 | 24° 2 | 23°19 | 22°40 | 17°36 | 4°59 | 2°18 | 17°28 | 16°12 | 8°51 | 10°16 | 9°56 | n.a. |
| F 5 | 10 45 17 | 13°23'26 | 26°41 | 23°50 | 24°28 | 23°14 | 17°31 | 5° 0 | 2°18 | 17°30 | 16°12 | 8°53 | 10°13 | 10° 3 | n.a. |
| S 6 | 10 49 14 | 14°22'32 | 10 ^h 37 | 23°43 | 25°37 | 23°48 | 17°25 | 5° 1 | 2°18 | 17°31 | 16°13 | 8°R54 | 10°10 | 10°10 | n.a. |
| S 7 | 10 53 10 | 15°21'36 | 24°45 | 23°D43 | 26°45 | 24°22 | 17°20 | 5° 2 | 2°17 | 17°32 | 16°13 | 8°53 | 10° 7 | 10°16 | n.a. |
| M 8 | 10 57 7 | 16°20'38 | 9 ^h 4 | 23°48 | 27°54 | 24°56 | 17°15 | 5° 2 | 2°17 | 17°34 | 16°13 | 8°52 | 10° 4 | 10°23 | n.a. |
| T 9 | 11 1 3 | 17°19'38 | 23°32 | 23°58 | 29° 2 | 25°30 | 17° 9 | 5° 3 | 2°17 | 17°35 | 16°13 | 8°50 | 10° 0 | 10°30 | n.a. |
| W10 | 11 5 0 | 18°18'37 | 8 ^h 3 | 24°13 | 0 ^h 10 | 26° 4 | 17° 3 | 5° 4 | 2°17 | 17°37 | 16°13 | 8°47 | 9°57 | 10°37 | n.a. |
| T11 | 11 8 56 | 19°17'33 | 22°33 | 24°33 | 1°18 | 26°39 | 16°57 | 5° 4 | 2°17 | 17°38 | 16°13 | 8°45 | 9°54 | 10°43 | n.a. |
| F12 | 11 12 53 | 20°16'28 | 6 ^h 56 | 24°58 | 2°26 | 27°13 | 16°51 | 5° 5 | 2°D17 | 17°39 | 16°14 | 8°42 | 9°51 | 10°50 | n.a. |
| S13 | 11 16 50 | 21°15'20 | 21° 5 | 25°27 | 3°34 | 27°48 | 16°45 | 5° 5 | 2°17 | 17°40 | 16°14 | 8°41 | 9°48 | 10°57 | n.a. |
| S14 | 11 20 46 | 22°14'10 | 4 ^h 57 | 26° 1 | 4°41 | 28°22 | 16°39 | 5° 5 | 2°17 | 17°42 | 16°14 | 8°D40 | 9°45 | 11° 4 | n.a. |
| M15 | 11 24 43 | 23°12'59 | 18°29 | 26°38 | 5°49 | 28°57 | 16°32 | 5° 5 | 2°17 | 17°43 | 16°15 | 8°40 | 9°41 | 11°10 | n.a. |
| T16 | 11 28 39 | 24°11'45 | 1 ^h 39 | 27°20 | 6°56 | 29°31 | 16°26 | 5°R 5 | 2°17 | 17°44 | 16°15 | 8°41 | 9°38 | 11°17 | n.a. |
| W17 | 11 32 36 | 25°10'29 | 14°28 | 28° 5 | 8° 3 | 0 ^h 11 | 16°19 | 5° 5 | 2°18 | 17°45 | 16°15 | 8°42 | 9°35 | 11°24 | n.a. |
| T18 | 11 36 32 | 26° 9'10 | 26°58 | 28°53 | 9°10 | 0°40 | 16°12 | 5° 5 | 2°18 | 17°46 | 16°16 | 8°43 | 9°32 | 11°30 | n.a. |
| F19 | 11 40 29 | 27° 7'49 | 9 ^h 12 | 29°45 | 10°16 | 1°15 | 16° 6 | 5° 5 | 2°18 | 17°47 | 16°16 | 8°44 | 9°29 | 11°37 | n.a. |
| S20 | 11 44 25 | 28° 6'27 | 21°15 | 0 ^h 40 | 11°23 | 1°50 | 15°59 | 5° 4 | 2°19 | 17°49 | 16°16 | 8°45 | 9°25 | 11°44 | n.a. |
| S21 | 11 48 22 | 29° 5'01 | 3 ^h 10 | 1°38 | 12°29 | 2°25 | 15°52 | 5° 4 | 2°19 | 17°50 | 16°17 | 8°R45 | 9°22 | 11°51 | n.a. |
| M22 | 11 52 18 | 0 ^h 3'34 | 15° 3 | 2°39 | 13°35 | 3° 0 | 15°45 | 5° 3 | 2°20 | 17°51 | 16°17 | 8°44 | 9°19 | 11°57 | n.a. |
| T23 | 11 56 15 | 1° 2'04 | 26°58 | 3°42 | 14°40 | 3°34 | 15°38 | 5° 3 | 2°20 | 17°52 | 16°18 | 8°44 | 9°16 | 12° 4 | n.a. |
| W24 | 12 0 12 | 2° 0'32 | 8 ^h 59 | 4°48 | 15°46 | 4° 9 | 15°30 | 5° 2 | 2°21 | 17°52 | 16°18 | 8°43 | 9°13 | 12°11 | n.a. |
| T25 | 12 4 8 | 2°58'58 | 21°10 | 5°57 | 16°51 | 4°44 | 15°23 | 5° 1 | 2°22 | 17°53 | 16°19 | 8°42 | 9°10 | 12°17 | n.a. |
| F26 | 12 8 5 | 3°57'22 | 3 ^h 34 | 7° 8 | 17°56 | 5°19 | 15°16 | 5° 0 | 2°22 | 17°54 | 16°20 | 8°41 | 9° 6 | 12°24 | n.a. |
| S27 | 12 12 1 | 4°55'43 | 16°13 | 8°21 | 19° 1 | 5°54 | 15° 8 | 4°59 | 2°23 | 17°55 | 16°20 | 8°41 | 9° 3 | 12°31 | n.a. |
| S28 | 12 15 58 | 5°54'03 | 29° 9 | 9°37 | 20° 5 | 6°29 | 15° 1 | 4°58 | 2°24 | 17°56 | 16°21 | 8°41 | 9° 0 | 12°38 | n.a. |
| M29 | 12 19 54 | 6°52'20 | 12 ^h 20 | 10°55 | 21°10 | 7° 4 | 14°54 | 4°57 | 2°25 | 17°57 | 16°21 | 8°D41 | 8°57 | 12°44 | n.a. |
| T30 | 12 23 51 | 7°50'36 | 25°48 | 12°15 | 22°14 | 7°40 | 14°46 | 4°55 | 2°26 | 17°57 | 16°22 | 8°41 | 8°54 | 12°51 | n.a. |
| W31 | 12 27 47 | 8°Y48'50 | 9 ^h 12 | 13°37 | 23°17 | 8°11 | 14°38 | 4°54 | 2°27 | 17°58 | 16°23 | 8°R41 | 8°51 | 12°58 | n.a. |

Delta T = 8613.75 sec.

Julian Calendar 1 March 191 == Greg. Calendar 28 Feb. 191

APRIL 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|-----|----------|-----------------------|--------------------|--------------------|--------------------|--------|--------|-------|------|--------|---------|-------|------|-------|------|
| T 1 | 12 31 44 | 9 ^h Y47'03 | 23 ^h 12 | 15 ^h 1 | 24 ^h 21 | 8°II50 | 14°R31 | 4°R52 | 2°28 | 17°59 | 16°II23 | 8°R41 | 8°47 | 13° 5 | n.a. |
| F 2 | 12 35 41 | 10°45'13 | 7 ^h 25 | 16°27 | 25°24 | 9°25 | 14°23 | 4°51 | 2°29 | 17°59 | 16°24 | 8°41 | 8°44 | 13°11 | n.a. |
| S 3 | 12 39 37 | 11°43'23 | 21°34 | 17°56 | 26°27 | 10° 0 | 14°16 | 4°49 | 2°30 | 18° 0 | 16°25 | 8°40 | 8°41 | 13°18 | n.a. |
| S 4 | 12 43 34 | 12°41'30 | 5 ^h 36 | 19°26 | 27°29 | 10°36 | 14° 8 | 4°47 | 2°31 | 18° 1 | 16°26 | 8°D40 | 8°38 | 13°25 | n.a. |
| M 5 | 12 47 30 | 13°39'37 | 20° 0 | 20°58 | 28°32 | 11°11 | 14° 0 | 4°45 | 2°33 | 18° 1 | 16°26 | 8°40 | 8°35 | 13°31 | n.a. |
| T 6 | 12 51 27 | 14°37'41 | 4 ^h 13 | 22°32 | 29°34 | 11°46 | 13°53 | 4°43 | 2°34 | 18° 2 | 16°27 | 8°41 | 8°31 | 13°38 | n.a. |
| W 7 | 12 55 23 | 15°35'45 | 18°22 | 24° 8 | 0 ^h 11 | 12°22 | 13°45 | 4°41 | 2°35 | 18° 2 | 16°28 | 8°41 | 8°28 | 13°45 | n.a. |
| T 8 | 12 59 20 | 16°33'46 | 2 ^h 25 | 25°46 | 1°36 | 12°57 | 13°37 | 4°39 | 2°37 | 18° 3 | 16°29 | 8°42 | 8°25 | 13°52 | n.a. |
| F 9 | 13 3 16 | 17°31'47 | 16°19 | 27°26 | 2°37 | 13°33 | 13°30 | 4°37 | 2°38 | 18° 3 | 16°30 | 8°42 | 8°22 | 13°58 | n.a. |
| S10 | 13 7 13 | 18°29'45 | 0 ^h Y 1 | 29° 7 | 3°38 | 14° 8 | 13°22 | 4°35 | 2°40 | 18° 4 | 16°31 | 8°43 | 8°19 | 14° 5 | n.a. |
| S11 | 13 11 10 | 19°27'42 | 13°31 | 0 ^h Y51 | 4°38 | 14°44 | 13°15 | 4°32 | 2°41 | 18° 4 | 16°32 | 8°R43 | 8°16 | 14°12 | n.a. |
| M12 | 13 15 6 | 20°25'38 | 26°45 | 2°37 | 5°38 | 15°19 | 13° 7 | 4°30 | 2°43 | 18° 4 | 16°32 | 8°42 | 8°12 | 14°18 | n.a. |
| T13 | 13 19 3 | 21°23'32 | 9 ^h 43 | 4°24 | 6°38 | 15°55 | 12°59 | 4°27 | 2°45 | 18° 5 | 16°33 | 8°41 | 8° 9 | 14°25 | n.a. |
| W14 | 13 22 59 | 22°21'24 | 22°25 | 6°13 | 7°37 | 16°30 | 12°52 | 4°25 | 2°46 | 18° 5 | 16°34 | 8°40 | 8° 6 | 14°32 | n.a. |
| T15 | 13 26 56 | 23°19'15 | 4 ^h 12 | 8° 5 | 8°36 | 17° 6 | 12°44 | 4°22 | 2°48 | 18° 5 | 16°35 | 8°38 | 8° 3 | 14°39 | n.a. |
| F16 | 13 30 52 | 24°17'04 | 17° 5 | 9°58 | 9°34 | 17°42 | 12°37 | 4°19 | 2°50 | 18° 5 | 16°36 | 8°35 | 8° 0 | 14°45 | n.a. |
| S17 | 13 34 49 | 25°14'51 | 29° 8 | 11°53 | 10°32 | 18°17 | 12°30 | 4°16 | 2°52 | 18° 5 | 16°37 | 8°33 | 7°56 | 14°52 | n.a. |
| S18 | 13 38 45 | 26°12'36 | 11 ^h 4 | 13°50 | 11°29 | 18°53 | 12°22 | 4°14 | 2°54 | 18° 6 | 16°38 | 8°32 | 7°53 | 14°59 | n.a. |
| M19 | 13 42 42 | 27°10'20 | 22°57 | 15°49 | 12°26 | 19°29 | 12°15 | 4°11 | 2°55 | 18° 6 | 16°39 | 8°D31 | 7°50 | 15° 6 | n.a. |
| T20 | 13 46 38 | 28° 8'02 | 4 ^h 51 | 17°49 | 13°22 | 20° 5 | 12° 8 | 4° 7 | 2°57 | 18° 6 | 16°40 | 8°31 | 7°47 | 15°12 | n.a. |
| W21 | 13 50 35 | 29° 5'42 | 16°53 | 19°52 | 14°18 | 20°41 | 12° 1 | 4° 4 | 2°59 | 18° 6 | 16°41 | 8°32 | 7°44 | 15°19 | n.a. |
| T22 | 13 54 32 | 0 ^h 3'21 | 29° 5 | 21°55 | 15°14 | 21°16 | 11°54 | 4° 1 | 3° 2 | 18°R 6 | 16°43 | 8°34 | 7°41 | 15°26 | n.a. |
| F23 | 13 58 28 | 1° 0'58 | 11 ^h 32 | 24° 1 | 16° 9 | 21°52 | 11°47 | 3°58 | 3° 4 | 18° 6 | 16°44 | 8°35 | 7°37 | 15°32 | n.a. |
| S24 | 14 2 25 | 1°58'33 | 24°18 | 26° 8 | 17° 3 | 22°28 | 11°40 | 3°55 | 3° 6 | 18° 6 | 16°45 | 8°36 | 7°34 | 15°39 | n.a. |
| S25 | 14 6 21 | 2°56'07 | 7 ^h 25 | 28°16 | 17°57 | 23° 4 | 11°34 | 3°51 | 3° 8 | 18° 6 | 16°46 | 8°R37 | 7°31 | 15°46 | n.a. |
| M26 | 14 10 18 | 3°53'40 | 20°54 | 0 ^h 26 | 18°50 | 23°40 | 11°27 | 3°48 | 3°10 | 18° 5 | 16°47 | 8°37 | 7°28 | 15°53 | n.a. |
| T27 | 14 14 14 | 4°51'11 | 4 ^h 43 | 2°36 | 19°42 | 24°16 | 11°20 | 3°44 | 3°12 | 18° 5 | 16°48 | 8°35 | 7°25 | 15°59 | n.a. |
| W28 | 14 18 11 | 5°48'41 | 18°51 | 4°47 | 20°34 | 24°52 | 11°14 | 3°41 | 3°15 | 18° 5 | 16°49 | 8°32 | 7°22 | 16° 6 | n.a. |
| T29 | 14 22 7 | 6°46'10 | 3 ^h 13 | 6°58 | 21°25 | 25°28 | 11° 8 | 3°37 | 3°17 | 18° 5 | 16°51 | 8°28 | 7°18 | 16°13 | n.a. |
| F30 | 14 26 4 | 7 ^h 43'37 | 17 ^h 42 | 9 ^h 10 | 22°16 | 26°11 | 11° 1 | 3°33 | 3°20 | 18° 5 | 16°52 | 8°24 | 7°15 | 16°20 | n.a. |

Delta T = 8612.91 sec.

Julian Calendar

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SWISS EPHEMERIS for the year 191

MAY 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|--------|-------|------|--------|-------|-------|------|-------|------|
| S 1 | 14 30 1 | 8♃41'04 | 2♂14 | 11♃21 | 23♂6 | 26♂40 | 10°R55 | 3°R30 | 3♁22 | 18°R 4 | 16♂53 | 8°R20 | 7♂12 | 16♁26 | n.a. |
| S 2 | 14 33 57 | 9°38'30 | 16°42 | 13°33 | 23°55 | 27°16 | 10♁49 | 3♁26 | 3°24 | 18♂ 4 | 16°54 | 8♂17 | 7° 9 | 16°33 | n.a. |
| M 3 | 14 37 54 | 10°35'56 | 18° 2 | 15°43 | 24°43 | 27°52 | 10°44 | 3°22 | 3°27 | 18° 4 | 16°56 | 8°16 | 7° 6 | 16°40 | n.a. |
| T 4 | 14 41 50 | 11°33'20 | 15°11 | 17°53 | 25°31 | 28°28 | 10°38 | 3°18 | 3°29 | 18° 3 | 16°57 | 8°D15 | 7° 2 | 16°46 | n.a. |
| W 5 | 14 45 47 | 12°30'44 | 29° 8 | 20° 1 | 26°17 | 29° 5 | 10°32 | 3°14 | 3°32 | 18° 3 | 16°58 | 8°16 | 6°59 | 16°53 | n.a. |
| T 6 | 14 49 43 | 13°28'07 | 12♃52 | 22° 9 | 27° 3 | 29°41 | 10°27 | 3°10 | 3°35 | 18° 2 | 16°59 | 8°18 | 6°56 | 17° 0 | n.a. |
| F 7 | 14 53 40 | 14°25'29 | 26°22 | 24°14 | 27°48 | 0♁17 | 10°21 | 3° 6 | 3°37 | 18° 2 | 17° 1 | 8°19 | 6°53 | 17° 7 | n.a. |
| S 8 | 14 57 36 | 15°22'50 | 9♃40 | 26°18 | 28°33 | 0°53 | 10°16 | 3° 2 | 3°40 | 18° 1 | 17° 2 | 8°R20 | 6°50 | 17°13 | n.a. |
| S 9 | 15 1 33 | 16°20'11 | 22°45 | 28°20 | 29°16 | 1°30 | 10°11 | 2°58 | 3°43 | 18° 1 | 17° 3 | 8°19 | 6°47 | 17°20 | n.a. |
| M10 | 15 5 30 | 17°17'31 | 5♃38 | 0♂20 | 29°58 | 2° 6 | 10° 6 | 2°54 | 3°45 | 18° 0 | 17° 5 | 8°16 | 6°43 | 17°27 | n.a. |
| T 11 | 15 9 26 | 18°14'50 | 18°19 | 2°17 | 0♁39 | 2°42 | 10° 2 | 2°50 | 3°48 | 18° 0 | 17° 6 | 8°11 | 6°40 | 17°33 | n.a. |
| W12 | 15 13 23 | 19°12'09 | 0♂48 | 4°13 | 1°19 | 3°18 | 9°57 | 2°45 | 3°51 | 17°59 | 17° 7 | 8° 5 | 6°37 | 17°40 | n.a. |
| T 13 | 15 17 19 | 20° 9'27 | 13° 6 | 6° 6 | 1°58 | 3°55 | 9°53 | 2°41 | 3°54 | 17°58 | 17° 9 | 7°58 | 6°34 | 17°47 | n.a. |
| F 14 | 15 21 16 | 21° 6'43 | 25°15 | 7°57 | 2°36 | 4°31 | 9°48 | 2°37 | 3°57 | 17°58 | 17°10 | 7°50 | 6°31 | 17°54 | n.a. |
| S 15 | 15 25 12 | 22° 3'59 | 7♁14 | 9°45 | 3°13 | 5° 8 | 9°44 | 2°33 | 4° 0 | 17°57 | 17°12 | 7°42 | 6°28 | 18° 0 | n.a. |
| S 16 | 15 29 9 | 23° 1'14 | 19° 9 | 11°30 | 3°49 | 5°44 | 9°40 | 2°28 | 4° 3 | 17°56 | 17°13 | 7°36 | 6°24 | 18° 7 | n.a. |
| M17 | 15 33 5 | 23°58'28 | 1♂ 0 | 13°14 | 4°23 | 6°21 | 9°37 | 2°24 | 4° 6 | 17°56 | 17°14 | 7°32 | 6°21 | 18°14 | n.a. |
| T 18 | 15 37 2 | 24°55'42 | 12°53 | 14°54 | 4°56 | 6°57 | 9°33 | 2°20 | 4° 9 | 17°55 | 17°16 | 7°29 | 6°18 | 18°20 | n.a. |
| W19 | 15 40 59 | 25°52'54 | 24°53 | 16°33 | 5°27 | 7°34 | 9°29 | 2°15 | 4°12 | 17°54 | 17°17 | 7°D28 | 6°15 | 18°27 | n.a. |
| T 20 | 15 44 55 | 26°50'05 | 7♂ 3 | 18° 8 | 5°57 | 8°10 | 9°26 | 2°11 | 4°15 | 17°53 | 17°19 | 7°29 | 6°12 | 18°34 | n.a. |
| F 21 | 15 48 52 | 27°47'16 | 19°29 | 19°41 | 6°26 | 8°47 | 9°23 | 2° 7 | 4°18 | 17°52 | 17°20 | 7°30 | 6° 8 | 18°41 | n.a. |
| S 22 | 15 52 48 | 28°44'26 | 2♂15 | 21°12 | 6°53 | 9°23 | 9°20 | 2° 2 | 4°21 | 17°51 | 17°22 | 7°R31 | 6° 5 | 18°47 | n.a. |
| S 23 | 15 56 45 | 29°41'35 | 15°26 | 22°40 | 7°19 | 10° 0 | 9°17 | 1°58 | 4°24 | 17°50 | 17°23 | 7°30 | 6° 2 | 18°54 | n.a. |
| M24 | 16 0 41 | 0♂38'44 | 29° 3 | 24° 5 | 7°42 | 10°37 | 9°15 | 1°53 | 4°27 | 17°49 | 17°24 | 7°28 | 5°59 | 19° 1 | n.a. |
| T 25 | 16 4 38 | 1°35'52 | 13♂ 7 | 25°27 | 8° 4 | 11°13 | 9°12 | 1°49 | 4°31 | 17°48 | 17°26 | 7°24 | 5°56 | 19° 8 | n.a. |
| W26 | 16 8 34 | 2°33'00 | 27°34 | 26°47 | 8°25 | 11°50 | 9°10 | 1°45 | 4°34 | 17°47 | 17°27 | 7°18 | 5°53 | 19°14 | n.a. |
| T 27 | 16 12 31 | 3°30'07 | 12♁19 | 28° 4 | 8°43 | 12°27 | 9° 8 | 1°40 | 4°37 | 17°46 | 17°29 | 7°10 | 5°49 | 19°21 | n.a. |
| F 28 | 16 16 28 | 4°27'14 | 27°15 | 29°18 | 9° 0 | 13° 3 | 9° 6 | 1°36 | 4°40 | 17°45 | 17°30 | 7° 2 | 5°46 | 19°28 | n.a. |
| S 29 | 16 20 24 | 5°24'21 | 12♂11 | 0♁30 | 9°14 | 13°40 | 9° 4 | 1°31 | 4°44 | 17°44 | 17°32 | 6°54 | 5°43 | 19°34 | n.a. |
| S 30 | 16 24 21 | 6°21'28 | 27° 0 | 1°38 | 9°27 | 14°17 | 9° 3 | 1°27 | 4°47 | 17°43 | 17°33 | 6°47 | 5°40 | 19°41 | n.a. |
| M31 | 16 28 17 | 7♂18'35 | 11♁35 | 2♁44 | 9♁37 | 14♁54 | 9♂ 1 | 1♁23 | 4♁50 | 17♂42 | 17♂35 | 6♂42 | 5♂37 | 19♁48 | n.a. |

Delta T = 8612.09 sec.

Julian Calendar 1 May 191 == Greg. Calendar 30 Apr. 191

JUNE 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|--------|-------|-------|-------|-------|------|--------|-------|-------|------|-------|------|
| T 1 | 16 32 14 | 8♂15'42 | 25♁51 | 3♁46 | 9♁46 | 15♁30 | 9°R 0 | 1°R18 | 4♁54 | 17°R41 | 17♂36 | 6°R40 | 5♂34 | 19♁55 | n.a. |
| W 2 | 16 36 10 | 9°12'49 | 9♃46 | 4°45 | 9°52 | 16° 7 | 8♂59 | 1♁14 | 4°57 | 17♂40 | 17°38 | 6°D39 | 5°30 | 20° 1 | n.a. |
| T 3 | 16 40 7 | 10° 9'56 | 23°21 | 5°42 | 9°56 | 16°44 | 8°58 | 1°10 | 5° 0 | 17°39 | 17°39 | 6♂40 | 5°27 | 20° 8 | n.a. |
| F 4 | 16 44 3 | 11° 7'04 | 6♃38 | 6°34 | 9°R58 | 17°21 | 8°58 | 1° 5 | 5° 4 | 17°37 | 17°41 | 6°R40 | 5°24 | 20°15 | n.a. |
| S 5 | 16 48 0 | 12° 4'11 | 19°38 | 7°23 | 9°57 | 17°58 | 8°57 | 1° 1 | 5° 7 | 17°36 | 17°42 | 6°39 | 5°21 | 20°21 | n.a. |
| S 6 | 16 51 57 | 13° 1'19 | 2♂25 | 8° 9 | 9°54 | 18°35 | 8°57 | 0°57 | 5°11 | 17°35 | 17°44 | 6°37 | 5°18 | 20°28 | n.a. |
| M 7 | 16 55 53 | 13°58'27 | 14°59 | 8°51 | 9°49 | 19°12 | 8°D57 | 0°53 | 5°14 | 17°34 | 17°45 | 6°31 | 5°14 | 20°35 | n.a. |
| T 8 | 16 59 50 | 14°55'36 | 27°24 | 9°29 | 9°42 | 19°49 | 8°57 | 0°48 | 5°18 | 17°32 | 17°47 | 6°23 | 5°11 | 20°42 | n.a. |
| W 9 | 17 3 46 | 15°52'45 | 9♂40 | 10° 3 | 9°32 | 20°26 | 8°57 | 0°44 | 5°21 | 17°31 | 17°49 | 6°13 | 5° 8 | 20°48 | n.a. |
| T 10 | 17 7 43 | 16°49'53 | 21°48 | 10°33 | 9°19 | 21° 3 | 8°58 | 0°40 | 5°25 | 17°30 | 17°50 | 6° 1 | 5° 5 | 20°55 | n.a. |
| F 11 | 17 11 39 | 17°47'02 | 3♁49 | 10°59 | 9° 5 | 21°40 | 8°58 | 0°36 | 5°28 | 17°28 | 17°52 | 5°48 | 5° 2 | 21° 2 | n.a. |
| S 12 | 17 15 36 | 18°44'12 | 15°44 | 11°21 | 8°48 | 22°17 | 8°59 | 0°32 | 5°32 | 17°27 | 17°53 | 5°36 | 4°59 | 21° 8 | n.a. |
| S 13 | 17 19 32 | 19°41'21 | 27°36 | 11°38 | 8°29 | 22°54 | 9° 0 | 0°28 | 5°35 | 17°26 | 17°55 | 5°25 | 4°55 | 21°15 | n.a. |
| M14 | 17 23 29 | 20°38'30 | 9♂26 | 11°50 | 8° 7 | 23°31 | 9° 1 | 0°24 | 5°39 | 17°24 | 17°56 | 5°16 | 4°52 | 21°22 | n.a. |
| T 15 | 17 27 26 | 21°35'39 | 21°18 | 11°58 | 7°43 | 24° 9 | 9° 3 | 0°20 | 5°42 | 17°23 | 17°58 | 5°10 | 4°49 | 21°29 | n.a. |
| W16 | 17 31 22 | 22°32'49 | 3♂16 | 12°R 1 | 7°18 | 24°46 | 9° 4 | 0°16 | 5°46 | 17°21 | 17°59 | 5° 6 | 4°46 | 21°35 | n.a. |
| T 17 | 17 35 19 | 23°29'59 | 15°23 | 11°59 | 6°50 | 25°23 | 9° 6 | 0°12 | 5°50 | 17°20 | 18° 1 | 5° 5 | 4°43 | 21°42 | n.a. |
| F 18 | 17 39 15 | 24°27'08 | 27°46 | 11°53 | 6°20 | 26° 0 | 9° 8 | 0° 8 | 5°53 | 17°18 | 18° 2 | 5° 5 | 4°39 | 21°49 | n.a. |
| S 19 | 17 43 12 | 25°24'18 | 10♂30 | 11°42 | 5°49 | 26°37 | 9°10 | 0° 4 | 5°57 | 17°17 | 18° 4 | 5° 5 | 4°36 | 21°56 | n.a. |
| S 20 | 17 47 8 | 26°21'28 | 23°38 | 11°26 | 5°16 | 27°15 | 9°12 | 0° 1 | 6° 1 | 17°15 | 18° 5 | 5° 4 | 4°33 | 22° 2 | n.a. |
| M21 | 17 51 5 | 27°18'38 | 7♂14 | 11° 5 | 4°42 | 27°52 | 9°15 | 29♂57 | 6° 4 | 17°14 | 18° 7 | 5° 1 | 4°30 | 22° 9 | n.a. |
| T 22 | 17 55 1 | 28°15'49 | 21°20 | 10°40 | 4° 7 | 28°29 | 9°17 | 29°53 | 6° 8 | 17°12 | 18° 8 | 4°56 | 4°27 | 22°16 | n.a. |
| W23 | 17 58 58 | 29°13'00 | 5♁54 | 10°11 | 3°31 | 29° 7 | 9°20 | 29°50 | 6°11 | 17°11 | 18°10 | 4°48 | 4°24 | 22°22 | n.a. |
| T 24 | 18 2 55 | 0♁10'12 | 20°51 | 9°39 | 2°54 | 29°44 | 9°23 | 29°46 | 6°15 | 17° 9 | 18°11 | 4°38 | 4°20 | 22°29 | n.a. |
| F 25 | 18 6 51 | 1° 7'24 | 6♂ 2 | 9° 3 | 2°17 | 0♂22 | 9°26 | 29°43 | 6°19 | 17° 8 | 18°13 | 4°27 | 4°17 | 22°36 | n.a. |
| S 26 | 18 10 48 | 2° 4'37 | 21°17 | 8°24 | 1°40 | 0°59 | 9°29 | 29°40 | 6°22 | 17° 6 | 18°14 | 4°17 | 4°14 | 22°43 | n.a. |
| S 27 | 18 14 44 | 3° 1'50 | 6♁25 | 7°44 | 1° 2 | 1°37 | 9°33 | 29°36 | 6°26 | 17° 5 | 18°16 | 4° 8 | 4°11 | 22°49 | n.a. |
| M28 | 18 18 41 | 3°59'05 | 21°16 | 7° 1 | 0°25 | 2°14 | 9°36 | 29°33 | 6°30 | 17° 3 | 18°17 | 4° 1 | 4° 8 | 22°56 | n.a. |
| T 29 | 18 22 37 | 4°56'20 | 5♃45 | 6°19 | 29♂49 | 2°52 | 9°40 | 29°30 | 6°33 | 17° 2 | 18°19 | 3°58 | 4° 5 | 23° 3 | n.a. |
| W30 | 18 26 34 | 5♁53'37 | 19♃47 | 5♁36 | 29♂13 | 3♂29 | 9♂44 | 29♂27 | 6♁37 | 17♂ 0 | 18♂20 | 3♂56 | 4♂ 1 | 23♁ 9 | n.a. |

Delta T = 8611.25 sec.

Julian Calendar

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SWISS EPHEMERIS for the year 191

JULY 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|--------|--------|---------|--------|--------|---------|-------|--------|---------|-------|-------|--------|------|---|---|---|---|---|---|---|---|
| T 1 | 18 30 30 | 65°50'54 | 3°Y24 | 4°R53 | 28°R38 | 4°Ω 7 | 9°Ω48 | 29°R24 | 6°Ω41 | 16°R58 | 18°II22 | 3°R56 | 3°Ω58 | 23°Ω16 | n.a. | | | | | | | | |
| F 2 | 18 34 27 | 7°48'13 | 16°38 | 4°Ω13 | 28°II 5 | 4°44 | 9°52 | 29°II21 | 6°44 | 16°Ω57 | 18°Ω23 | 3°Ω55 | 3°55 | 23°23 | n.a. | | | | | | | | |
| S 3 | 18 38 24 | 8°45'33 | 29°30 | 3°34 | 27°32 | 5°22 | 9°57 | 29°18 | 6°48 | 16°55 | 18°25 | 3°54 | 3°52 | 23°30 | n.a. | | | | | | | | |
| S 4 | 18 42 20 | 9°42'54 | 12°B 7 | 2°59 | 27° 2 | 6° 0 | 10° 1 | 29°15 | 6°52 | 16°54 | 18°26 | 3°51 | 3°49 | 23°36 | n.a. | | | | | | | | |
| M 5 | 18 46 17 | 10°40'16 | 24°29 | 2°28 | 26°33 | 6°37 | 10° 6 | 29°12 | 6°55 | 16°52 | 18°27 | 3°45 | 3°45 | 23°43 | n.a. | | | | | | | | |
| T 6 | 18 50 13 | 11°37'40 | 6°II42 | 2° 0 | 26° 6 | 7°15 | 10°11 | 29°10 | 6°59 | 16°50 | 18°29 | 3°37 | 3°42 | 23°50 | n.a. | | | | | | | | |
| W 7 | 18 54 10 | 12°35'05 | 18°47 | 1°38 | 25°41 | 7°53 | 10°16 | 29° 7 | 7° 3 | 16°49 | 18°30 | 3°26 | 3°39 | 23°56 | n.a. | | | | | | | | |
| T 8 | 18 58 6 | 13°32'31 | 0°Ω46 | 1°21 | 25°17 | 8°31 | 10°21 | 29° 5 | 7° 6 | 16°47 | 18°32 | 3°13 | 3°36 | 24° 3 | n.a. | | | | | | | | |
| F 9 | 19 2 3 | 14°29'58 | 12°41 | 1°10 | 24°57 | 9° 9 | 10°26 | 29° 2 | 7°10 | 16°45 | 18°33 | 2°59 | 3°33 | 24°10 | n.a. | | | | | | | | |
| S 10 | 19 5 59 | 15°27'26 | 24°33 | 1°D 5 | 24°38 | 9°47 | 10°32 | 29° 0 | 7°14 | 16°44 | 18°34 | 2°46 | 3°30 | 24°17 | n.a. | | | | | | | | |
| S 11 | 19 9 56 | 16°24'55 | 6°Ω24 | 1° 6 | 24°22 | 10°24 | 10°37 | 28°57 | 7°17 | 16°42 | 18°36 | 2°34 | 3°26 | 24°23 | n.a. | | | | | | | | |
| M12 | 19 13 53 | 17°22'25 | 18°15 | 1°14 | 24° 8 | 11° 2 | 10°43 | 28°55 | 7°21 | 16°41 | 18°37 | 2°24 | 3°23 | 24°30 | n.a. | | | | | | | | |
| T 13 | 19 17 49 | 18°19'56 | 0°II 9 | 1°29 | 23°56 | 11°40 | 10°49 | 28°53 | 7°25 | 16°39 | 18°39 | 2°18 | 3°20 | 24°37 | n.a. | | | | | | | | |
| W14 | 19 21 46 | 19°17'28 | 12° 8 | 1°51 | 23°47 | 12°18 | 10°55 | 28°51 | 7°28 | 16°37 | 18°40 | 2°14 | 3°17 | 24°43 | n.a. | | | | | | | | |
| T 15 | 19 25 42 | 20°15'02 | 24°17 | 2°19 | 23°40 | 12°56 | 11° 2 | 28°49 | 7°32 | 16°36 | 18°41 | 2°12 | 3°14 | 24°50 | n.a. | | | | | | | | |
| F 16 | 19 29 39 | 21°12'36 | 6°Ω39 | 2°54 | 23°36 | 13°34 | 11° 8 | 28°47 | 7°36 | 16°34 | 18°43 | 2°D12 | 3°11 | 24°57 | n.a. | | | | | | | | |
| S 17 | 19 33 35 | 22°10'11 | 19°20 | 3°36 | 23°D33 | 14°12 | 11°14 | 28°46 | 7°39 | 16°32 | 18°44 | 2°R12 | 3° 7 | 25° 4 | n.a. | | | | | | | | |
| S 18 | 19 37 32 | 23° 7'47 | 2°II24 | 4°25 | 23°34 | 14°51 | 11°21 | 28°44 | 7°43 | 16°31 | 18°45 | 2°12 | 3° 4 | 25°10 | n.a. | | | | | | | | |
| M19 | 19 41 28 | 24° 5'25 | 15°54 | 5°20 | 23°36 | 15°29 | 11°28 | 28°42 | 7°46 | 16°29 | 18°46 | 2°10 | 3° 1 | 25°17 | n.a. | | | | | | | | |
| T 20 | 19 45 25 | 25° 3'04 | 29°53 | 6°22 | 23°41 | 16° 7 | 11°35 | 28°41 | 7°50 | 16°28 | 18°48 | 2° 6 | 2°58 | 25°24 | n.a. | | | | | | | | |
| W21 | 19 49 22 | 26° 0'43 | 14°A21 | 7°30 | 23°48 | 16°45 | 11°42 | 28°39 | 7°53 | 16°26 | 18°49 | 1°59 | 2°55 | 25°30 | n.a. | | | | | | | | |
| T 22 | 19 53 18 | 26°58'24 | 29°15 | 8°44 | 23°57 | 17°23 | 11°49 | 28°38 | 7°57 | 16°24 | 18°50 | 1°51 | 2°51 | 25°37 | n.a. | | | | | | | | |
| F 23 | 19 57 15 | 27°56'07 | 14°Ω26 | 10° 4 | 24° 8 | 18° 2 | 11°56 | 28°37 | 8° 0 | 16°23 | 18°52 | 1°42 | 2°48 | 25°44 | n.a. | | | | | | | | |
| S 24 | 20 1 11 | 28°53'50 | 29°45 | 11°28 | 24°21 | 18°40 | 12° 4 | 28°36 | 8° 4 | 16°21 | 18°53 | 1°33 | 2°45 | 25°51 | n.a. | | | | | | | | |
| S 25 | 20 5 8 | 29°51'35 | 15°Ω 1 | 12°58 | 24°37 | 19°18 | 12°12 | 28°35 | 8° 7 | 16°20 | 18°54 | 1°25 | 2°42 | 25°57 | n.a. | | | | | | | | |
| M26 | 20 9 4 | 0°Ω49'22 | 0°X 3 | 14°33 | 24°54 | 19°57 | 12°19 | 28°34 | 8°11 | 16°18 | 18°55 | 1°19 | 2°39 | 26° 4 | n.a. | | | | | | | | |
| T 27 | 20 13 1 | 1°47'10 | 14°43 | 16°11 | 25°13 | 20°35 | 12°27 | 28°33 | 8°14 | 16°17 | 18°56 | 1°16 | 2°36 | 26°11 | n.a. | | | | | | | | |
| W28 | 20 16 57 | 2°45'01 | 28°56 | 17°54 | 25°34 | 21°13 | 12°35 | 28°32 | 8°18 | 16°15 | 18°58 | 1°D15 | 2°32 | 26°17 | n.a. | | | | | | | | |
| T 29 | 20 20 54 | 3°42'53 | 12°Y41 | 19°40 | 25°57 | 21°52 | 12°43 | 28°32 | 8°21 | 16°13 | 18°59 | 1°15 | 2°29 | 26°24 | n.a. | | | | | | | | |
| F 30 | 20 24 51 | 4°40'47 | 25°59 | 21°28 | 26°21 | 22°30 | 12°51 | 28°31 | 8°25 | 16°12 | 19° 0 | 1°16 | 2°26 | 26°31 | n.a. | | | | | | | | |
| S 31 | 20 28 47 | 5°Ω38'42 | 8°Ω53 | 23°Ω19 | 26°II47 | 23°Ω 9 | 13°Ω 0 | 28°II30 | 8°Ω28 | 16°Ω10 | 19°II 1 | 1°R16 | 2°Ω23 | 26°Ω38 | n.a. | | | | | | | | |

Delta T = 8610.44 sec.

Julian Calendar 1 July 191 == Greg. Calendar 30 June 191

AUGUST 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ♈ | ♉ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|-----------|---------|---------|---------|---------|--------|---------|-------|--------|---------|---------|-------|--------|------|---|---|---|---|---|---|---|---|
| S 1 | 20 32 44 | 6°Ω36'40 | 21°Ω27 | 25°Ω13 | 27°II15 | 23°Ω47 | 13°Ω 8 | 28°R30 | 8°Ω31 | 16°R 9 | 19°II 2 | 1°R15 | 2°Ω20 | 26°Ω44 | n.a. | | | | | | | | |
| M 2 | 20 36 40 | 7°34'40 | 3°II45 | 27° 7 | 27°44 | 24°26 | 13°17 | 28°II30 | 8°35 | 16°Ω 7 | 19° 3 | 1°Ω12 | 2°17 | 26°51 | n.a. | | | | | | | | |
| T 3 | 20 40 37 | 8°32'42 | 15°52 | 29° 3 | 28°15 | 25° 5 | 13°25 | 28°30 | 8°38 | 16° 6 | 19° 4 | 1° 6 | 2°13 | 26°58 | n.a. | | | | | | | | |
| W 4 | 20 44 33 | 9°30'46 | 27°51 | 1°Ω 0 | 28°47 | 25°43 | 13°34 | 28°D30 | 8°41 | 16° 4 | 19° 5 | 0°59 | 2°10 | 27° 4 | n.a. | | | | | | | | |
| T 5 | 20 48 30 | 10°28'51 | 9°Ω45 | 2°58 | 29°21 | 26°22 | 13°43 | 28°30 | 8°44 | 16° 3 | 19° 6 | 0°50 | 2° 7 | 27°11 | n.a. | | | | | | | | |
| F 6 | 20 52 26 | 11°26'59 | 21°36 | 4°55 | 29°56 | 27° 1 | 13°52 | 28°30 | 8°48 | 16° 2 | 19° 7 | 0°40 | 2° 4 | 27°18 | n.a. | | | | | | | | |
| S 7 | 20 56 23 | 12°25'08 | 3°Ω28 | 6°53 | 0°Ω32 | 27°39 | 14° 1 | 28°30 | 8°51 | 16° 0 | 19° 8 | 0°31 | 2° 1 | 27°25 | n.a. | | | | | | | | |
| S 8 | 21 0 20 | 13°23'20 | 15°20 | 8°50 | 1° 9 | 28°18 | 14°11 | 28°30 | 8°54 | 15°59 | 19° 9 | 0°23 | 1°57 | 27°31 | n.a. | | | | | | | | |
| M 9 | 21 4 16 | 14°21'33 | 27°16 | 10°47 | 1°48 | 28°57 | 14°20 | 28°31 | 8°57 | 15°57 | 19°10 | 0°16 | 1°54 | 27°38 | n.a. | | | | | | | | |
| T 10 | 21 8 13 | 15°19'48 | 9°II16 | 12°44 | 2°27 | 29°36 | 14°29 | 28°31 | 9° 0 | 15°56 | 19°11 | 0°12 | 1°51 | 27°45 | n.a. | | | | | | | | |
| W11 | 21 12 9 | 16°18'04 | 21°23 | 14°39 | 3° 8 | 0°II15 | 14°39 | 28°32 | 9° 4 | 15°55 | 19°12 | 0°10 | 1°48 | 27°51 | n.a. | | | | | | | | |
| T 12 | 21 16 6 | 17°16'22 | 3°Ω39 | 16°34 | 3°50 | 0°54 | 14°49 | 28°32 | 9° 7 | 15°53 | 19°13 | 0°D 9 | 1°45 | 27°58 | n.a. | | | | | | | | |
| F 13 | 21 20 2 | 18°14'42 | 16° 8 | 18°28 | 4°33 | 1°33 | 14°58 | 28°33 | 9°10 | 15°52 | 19°14 | 0°10 | 1°42 | 28° 5 | n.a. | | | | | | | | |
| S 14 | 21 23 59 | 19°13'04 | 28°52 | 20°22 | 5°17 | 2°12 | 15° 8 | 28°34 | 9°13 | 15°51 | 19°15 | 0°12 | 1°38 | 28°11 | n.a. | | | | | | | | |
| S 15 | 21 27 55 | 20°11'27 | 11°II56 | 22°14 | 6° 2 | 2°51 | 15°18 | 28°35 | 9°16 | 15°49 | 19°16 | 0°13 | 1°35 | 28°18 | n.a. | | | | | | | | |
| M16 | 21 31 52 | 21° 9'52 | 25°22 | 24° 5 | 6°47 | 3°30 | 15°28 | 28°36 | 9°19 | 15°48 | 19°16 | 0°R13 | 1°32 | 28°25 | n.a. | | | | | | | | |
| T 17 | 21 35 49 | 22° 8'19 | 9°A12 | 25°55 | 7°34 | 4° 9 | 15°38 | 28°37 | 9°22 | 15°47 | 19°17 | 0°12 | 1°29 | 28°32 | n.a. | | | | | | | | |
| W18 | 21 39 45 | 23° 6'48 | 23°27 | 27°44 | 8°21 | 4°48 | 15°49 | 28°39 | 9°25 | 15°46 | 19°18 | 0° 9 | 1°26 | 28°38 | n.a. | | | | | | | | |
| T 19 | 21 43 42 | 24° 5'18 | 8°Ω 5 | 29°32 | 9° 9 | 5°27 | 15°59 | 28°40 | 9°27 | 15°44 | 19°19 | 0° 5 | 1°23 | 28°45 | n.a. | | | | | | | | |
| F 20 | 21 47 38 | 25° 3'50 | 23° 1 | 1°II18 | 9°58 | 6° 7 | 16° 9 | 28°42 | 9°30 | 15°43 | 19°20 | 0° 0 | 1°19 | 28°52 | n.a. | | | | | | | | |
| S 21 | 21 51 35 | 26° 2'23 | 8°Ω 8 | 3° 4 | 10°48 | 6°46 | 16°20 | 28°43 | 9°33 | 15°42 | 19°20 | 29°II55 | 1°16 | 28°58 | n.a. | | | | | | | | |
| S 22 | 21 55 31 | 27° 0'59 | 23°16 | 4°49 | 11°39 | 7°25 | 16°31 | 28°45 | 9°36 | 15°41 | 19°21 | 29°51 | 1°13 | 29° 5 | n.a. | | | | | | | | |
| M23 | 21 59 28 | 27°59'37 | 8°X15 | 6°32 | 12°30 | 8° 5 | 16°41 | 28°46 | 9°39 | 15°40 | 19°22 | 29°48 | 1°10 | 29°12 | n.a. | | | | | | | | |
| T 24 | 22 3 24 | 28°58'16 | 22°57 | 8°15 | 13°22 | 8°44 | 16°52 | 28°48 | 9°41 | 15°39 | 19°22 | 29°D46 | 1° 7 | 29°19 | n.a. | | | | | | | | |
| W25 | 22 7 21 | 29°56'58 | 7°Y16 | 9°57 | 14°15 | 9°23 | 17° 3 | 28°50 | 9°44 | 15°38 | 19°23 | 29°46 | 1° 3 | 29°25 | n.a. | | | | | | | | |
| T 26 | 22 11 18 | 0°II55'42 | 21° 8 | 11°37 | 15° 8 | 10° 3 | 17°14 | 28°52 | 9°47 | 15°37 | 19°24 | 29°47 | 1° 0 | 29°32 | n.a. | | | | | | | | |
| F 27 | 22 15 14 | 1°54'28 | 4°Ω33 | 13°17 | 16° 2 | 10°42 | 17°25 | 28°54 | 9°49 | 15°36 | 19°24 | 29°49 | 0°57 | 29°39 | n.a. | | | | | | | | |
| S 28 | 22 19 11 | 2°53'17 | 17°32 | 14°55 | 16°57 | 11°22 | 17°36 | 28°57 | 9°52 | 15°35 | 19°25 | 29°50 | 0°54 | 29°45 | n.a. | | | | | | | | |
| S 29 | 22 23 7 | 3°52'08 | 0°II10 | 16°33 | 17°52 | 12° 1 | 17°47 | 28°59 | 9°54 | 15°34 | 19°25 | 29°R51 | 0°51 | 29°52 | n.a. | | | | | | | | |
| M30 | 22 27 4 | 4°51'02 | 12°30 | 18°10 | 18°47 | 12°41 | 17°58 | 29° 1 | 9°57 | 15°33 | 19°26 | 29°51 | 0°48 | 29°59 | n.a. | | | | | | | | |
| T 31 | 22 31 0 | 5°II49'58 | 24°II36 | 19°II45 | 19°Ω44 | 13°II21 | 18°Ω10 | 29°II 4 | 9°Ω59 | 15°Ω32 | 19°II26 | 29°II50 | 0°Ω44 | 0°Ω 6 | n.a. | | | | | | | | |

Delta T = 8609.60 sec.

Julian Calendar

created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 191

SEPTEMBER 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|------|------|
| W 1 | 22 34 57 | 6♍48'56 | 6♌33 | 21♎20 | 20♌40 | 14♏0 | 18♌21 | 29♍6 | 10♌2 | 15°R31 | 19♏27 | 29°R47 | 0♌41 | 0♌12 | n.a. |
| T 2 | 22 38 53 | 7°47'57 | 18°25 | 22°54 | 21°38 | 14°40 | 18°33 | 29°9 | 10°4 | 15°R30 | 19°27 | 29°R44 | 0°38 | 0°19 | n.a. |
| F 3 | 22 42 50 | 8°47'00 | 0♌16 | 24°28 | 22°36 | 15°20 | 18°44 | 29°12 | 10°6 | 15°29 | 19°28 | 29°41 | 0°35 | 0°26 | n.a. |
| S 4 | 22 46 47 | 9°46'05 | 12°9 | 26°0 | 23°34 | 16°0 | 18°56 | 29°15 | 10°9 | 15°29 | 19°28 | 29°37 | 0°32 | 0°32 | n.a. |
| S 5 | 22 50 43 | 10°45'13 | 24°5 | 27°31 | 24°33 | 16°40 | 19°8 | 29°18 | 10°11 | 15°28 | 19°29 | 29°34 | 0°28 | 0°39 | n.a. |
| M 6 | 22 54 40 | 11°44'22 | 6♎9 | 29°2 | 25°32 | 17°19 | 19°19 | 29°21 | 10°13 | 15°27 | 19°29 | 29°32 | 0°25 | 0°46 | n.a. |
| T 7 | 22 58 36 | 12°43'34 | 18°20 | 0♌31 | 26°31 | 17°59 | 19°31 | 29°24 | 10°15 | 15°26 | 19°29 | 29°31 | 0°22 | 0°52 | n.a. |
| W 8 | 23 2 33 | 13°42'48 | 0♌41 | 2°0 | 27°31 | 18°39 | 19°43 | 29°27 | 10°17 | 15°26 | 19°30 | 29°D30 | 0°19 | 0°59 | n.a. |
| T 9 | 23 6 29 | 14°42'04 | 13°13 | 3°28 | 28°32 | 19°19 | 19°55 | 29°30 | 10°19 | 15°25 | 19°30 | 29°31 | 0°16 | 1°6 | n.a. |
| F 10 | 23 10 26 | 15°41'22 | 25°57 | 4°55 | 29°33 | 19°59 | 20°7 | 29°34 | 10°21 | 15°24 | 19°30 | 29°32 | 0°13 | 1°13 | n.a. |
| S 11 | 23 14 22 | 16°40'42 | 8♍54 | 6°21 | 0♌34 | 20°40 | 20°19 | 29°37 | 10°23 | 15°24 | 19°31 | 29°33 | 0°9 | 1°19 | n.a. |
| S 12 | 23 18 19 | 17°40'03 | 22°7 | 7°46 | 1°36 | 21°20 | 20°31 | 29°41 | 10°25 | 15°23 | 19°31 | 29°34 | 0°6 | 1°26 | n.a. |
| M13 | 23 22 15 | 18°39'27 | 5♌37 | 9°11 | 2°38 | 22°0 | 20°43 | 29°44 | 10°27 | 15°23 | 19°31 | 29°35 | 0°3 | 1°33 | n.a. |
| T 14 | 23 26 12 | 19°38'53 | 19°24 | 10°34 | 3°40 | 22°40 | 20°56 | 29°48 | 10°29 | 15°22 | 19°31 | 29°R35 | 0°0 | 1°39 | n.a. |
| W15 | 23 30 9 | 20°38'20 | 3♌28 | 11°56 | 4°43 | 23°20 | 21°8 | 29°52 | 10°31 | 15°22 | 19°31 | 29°35 | 29°R57 | 1°46 | n.a. |
| T 16 | 23 34 5 | 21°37'50 | 17°48 | 13°17 | 5°46 | 24°1 | 21°20 | 29°56 | 10°32 | 15°21 | 19°31 | 29°34 | 29°54 | 1°53 | n.a. |
| F 17 | 23 38 2 | 22°37'21 | 2♌22 | 14°37 | 6°49 | 24°41 | 21°33 | 0♌0 | 10°34 | 15°21 | 19°32 | 29°34 | 29°50 | 1°59 | n.a. |
| S 18 | 23 41 58 | 23°36'54 | 17°4 | 15°56 | 7°53 | 25°21 | 21°45 | 0°4 | 10°36 | 15°21 | 19°32 | 29°33 | 29°47 | 2°6 | n.a. |
| S 19 | 23 45 55 | 24°36'29 | 1♌49 | 17°14 | 8°57 | 26°2 | 21°58 | 0°8 | 10°37 | 15°20 | 19°32 | 29°32 | 29°44 | 2°13 | n.a. |
| M20 | 23 49 51 | 25°36'05 | 16°30 | 18°30 | 10°1 | 26°42 | 22°10 | 0°12 | 10°39 | 15°20 | 19°32 | 29°32 | 29°41 | 2°20 | n.a. |
| T 21 | 23 53 48 | 26°35'44 | 0♍59 | 19°45 | 11°6 | 27°23 | 22°23 | 0°16 | 10°40 | 15°20 | 19°R32 | 29°D32 | 29°38 | 2°26 | n.a. |
| W22 | 23 57 44 | 27°35'25 | 15°11 | 20°59 | 12°11 | 28°3 | 22°35 | 0°21 | 10°42 | 15°19 | 19°32 | 29°32 | 29°34 | 2°33 | n.a. |
| T 23 | 0 1 41 | 28°35'08 | 29°3 | 22°11 | 13°16 | 28°44 | 22°48 | 0°25 | 10°43 | 15°19 | 19°32 | 29°32 | 29°31 | 2°40 | n.a. |
| F 24 | 0 5 38 | 29°34'53 | 12♌30 | 23°21 | 14°21 | 29°25 | 23°1 | 0°29 | 10°44 | 15°19 | 19°32 | 29°R32 | 29°28 | 2°46 | n.a. |
| S 25 | 0 9 34 | 0♌34'41 | 25°35 | 24°29 | 15°27 | 0♌5 | 23°13 | 0°34 | 10°46 | 15°19 | 19°32 | 29°32 | 29°25 | 2°53 | n.a. |
| S 26 | 0 13 31 | 1°34'31 | 8♏17 | 25°35 | 16°33 | 0°46 | 23°26 | 0°39 | 10°47 | 15°19 | 19°32 | 29°32 | 29°22 | 3°0 | n.a. |
| M27 | 0 17 27 | 2°34'23 | 20°40 | 26°39 | 17°39 | 1°27 | 23°39 | 0°43 | 10°48 | 15°19 | 19°31 | 29°32 | 29°19 | 3°6 | n.a. |
| T 28 | 0 21 24 | 3°34'18 | 2♌48 | 27°40 | 18°46 | 2°7 | 23°52 | 0°48 | 10°49 | 15°19 | 19°31 | 29°D32 | 29°15 | 3°13 | n.a. |
| W29 | 0 25 20 | 4°34'15 | 14°46 | 28°38 | 19°53 | 2°48 | 24°5 | 0°53 | 10°50 | 15°D19 | 19°31 | 29°32 | 29°12 | 3°20 | n.a. |
| T 30 | 0 29 17 | 5°34'14 | 26♌39 | 29°33 | 21°0 | 3♌29 | 24°18 | 0♌58 | 10°51 | 15°R19 | 19°R31 | 29°R32 | 29°R9 | 3°27 | n.a. |

Delta T = 8608.75 sec.

Julian Calendar 1 Sept. 191 == Greg. Calendar 31 Aug. 191

OCTOBER 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|---------|----------|-------|--------|-------|-------|-------|------|-------|--------|--------|--------|--------|-------|------|
| F 1 | 0 33 13 | 6♌34'15 | 8♏29 | 0♍25 | 22♏7 | 4♌10 | 24♌31 | 1♌3 | 10°52 | 15°R19 | 19°R31 | 29°R33 | 29°R6 | 3°R33 | n.a. |
| S 2 | 0 37 10 | 7°34'19 | 20°24 | 1°13 | 23°14 | 4°51 | 24°44 | 1°8 | 10°53 | 15°19 | 19°R30 | 29°34 | 29°3 | 3°40 | n.a. |
| S 3 | 0 41 7 | 8°34'24 | 2♎25 | 1°57 | 24°22 | 5°32 | 24°57 | 1°13 | 10°54 | 15°19 | 19°30 | 29°34 | 28°59 | 3°47 | n.a. |
| M 4 | 0 45 3 | 9°34'32 | 14°36 | 2°35 | 25°30 | 6°13 | 25°10 | 1°18 | 10°55 | 15°19 | 19°30 | 29°35 | 28°56 | 3°53 | n.a. |
| T 5 | 0 49 0 | 10°34'42 | 26°59 | 3°9 | 26°38 | 6°54 | 25°23 | 1°23 | 10°56 | 15°19 | 19°29 | 29°R36 | 28°53 | 4°0 | n.a. |
| W 6 | 0 52 56 | 11°34'54 | 9♌36 | 3°36 | 27°46 | 7°36 | 25°36 | 1°29 | 10°56 | 15°20 | 19°29 | 29°35 | 28°50 | 4°7 | n.a. |
| T 7 | 0 56 53 | 12°35'08 | 22°30 | 3°57 | 28°55 | 8°17 | 25°49 | 1°34 | 10°57 | 15°20 | 19°29 | 29°35 | 28°47 | 4°13 | n.a. |
| F 8 | 1 0 49 | 13°35'23 | 5♍37 | 4°11 | 0♎3 | 8°58 | 26°2 | 1°39 | 10°58 | 15°20 | 19°28 | 29°33 | 28°44 | 4°20 | n.a. |
| S 9 | 1 4 46 | 14°35'40 | 18°58 | 4°R18 | 1°12 | 9°39 | 26°16 | 1°45 | 10°58 | 15°21 | 19°28 | 29°31 | 28°40 | 4°27 | n.a. |
| S 10 | 1 8 42 | 15°36'00 | 2♌32 | 4°15 | 2°21 | 10°21 | 26°29 | 1°50 | 10°59 | 15°21 | 19°28 | 29°29 | 28°37 | 4°34 | n.a. |
| M11 | 1 12 39 | 16°36'20 | 16°17 | 4°4 | 3°31 | 11°2 | 26°42 | 1°56 | 10°59 | 15°21 | 19°27 | 29°27 | 28°34 | 4°40 | n.a. |
| T 12 | 1 16 35 | 17°36'43 | 0♌12 | 3°43 | 4°40 | 11°43 | 26°55 | 2°2 | 10°59 | 15°22 | 19°27 | 29°25 | 28°31 | 4°47 | n.a. |
| W13 | 1 20 32 | 18°37'06 | 14°15 | 3°13 | 5°49 | 12°25 | 27°9 | 2°7 | 11°0 | 15°22 | 19°26 | 29°D24 | 28°28 | 4°54 | n.a. |
| T 14 | 1 24 29 | 19°37'32 | 28°25 | 2°32 | 6°59 | 13°6 | 27°22 | 2°13 | 11°0 | 15°23 | 19°26 | 29°24 | 28°25 | 5°0 | n.a. |
| F 15 | 1 28 25 | 20°37'58 | 12♌39 | 1°42 | 8°9 | 13°48 | 27°35 | 2°19 | 11°0 | 15°23 | 19°25 | 29°25 | 28°21 | 5°7 | n.a. |
| S 16 | 1 32 22 | 21°38'26 | 26°56 | 0°42 | 9°19 | 14°29 | 27°49 | 2°25 | 11°0 | 15°24 | 19°24 | 29°27 | 28°18 | 5°14 | n.a. |
| S 17 | 1 36 18 | 22°38'56 | 11♌12 | 29°34 | 10°29 | 15°11 | 28°2 | 2°31 | 11°0 | 15°25 | 19°24 | 29°28 | 28°15 | 5°20 | n.a. |
| M18 | 1 40 15 | 23°39'27 | 25°24 | 28°20 | 11°39 | 15°53 | 28°15 | 2°37 | 11°R0 | 15°25 | 19°23 | 29°R29 | 28°12 | 5°27 | n.a. |
| T 19 | 1 44 11 | 24°39'59 | 9♍29 | 27°2 | 12°50 | 16°34 | 28°29 | 2°43 | 11°0 | 15°26 | 19°23 | 29°29 | 28°9 | 5°34 | n.a. |
| W20 | 1 48 8 | 25°40'33 | 23°22 | 25°41 | 14°1 | 17°16 | 28°42 | 2°49 | 11°0 | 15°27 | 19°22 | 29°27 | 28°5 | 5°40 | n.a. |
| T 21 | 1 52 4 | 26°41'08 | 7♌0 | 24°21 | 15°11 | 17°58 | 28°55 | 2°55 | 11°0 | 15°27 | 19°21 | 29°24 | 28°2 | 5°47 | n.a. |
| F 22 | 1 56 1 | 27°41'45 | 20°21 | 23°4 | 16°22 | 18°40 | 29°9 | 3°1 | 11°0 | 15°28 | 19°21 | 29°20 | 27°59 | 5°54 | n.a. |
| S 23 | 1 59 58 | 28°42'24 | 3♏22 | 21°52 | 17°33 | 19°22 | 29°22 | 3°7 | 11°0 | 15°29 | 19°20 | 29°15 | 27°56 | 6°1 | n.a. |
| S 24 | 2 3 54 | 29°43'05 | 16°4 | 20°49 | 18°44 | 20°4 | 29°35 | 3°13 | 10°59 | 15°30 | 19°19 | 29°10 | 27°53 | 6°7 | n.a. |
| M25 | 2 7 51 | 0♍43'47 | 28°29 | 19°55 | 19°56 | 20°46 | 29°49 | 3°20 | 10°59 | 15°31 | 19°18 | 29°5 | 27°50 | 6°14 | n.a. |
| T 26 | 2 11 47 | 1°44'31 | 10♌39 | 19°12 | 21°7 | 21°28 | 0♍2 | 3°26 | 10°59 | 15°32 | 19°18 | 29°2 | 27°46 | 6°21 | n.a. |
| W27 | 2 15 44 | 2°45'17 | 22°38 | 18°40 | 22°18 | 22°10 | 0°16 | 3°32 | 10°58 | 15°32 | 19°17 | 29°0 | 27°43 | 6°27 | n.a. |
| T 28 | 2 19 40 | 3°46'04 | 4♏30 | 18°20 | 23°30 | 22°52 | 0°29 | 3°39 | 10°58 | 15°33 | 19°16 | 28°D59 | 27°40 | 6°34 | n.a. |
| F 29 | 2 23 37 | 4°46'53 | 16°20 | 18°D12 | 24°42 | 23°34 | 0°42 | 3°45 | 10°57 | 15°34 | 19°15 | 29°0 | 27°37 | 6°41 | n.a. |
| S 30 | 2 27 33 | 5°47'43 | 28°14 | 18°14 | 25°54 | 24°16 | 0°56 | 3°52 | 10°57 | 15°35 | 19°14 | 29°1 | 27°34 | 6°47 | n.a. |
| S 31 | 2 31 30 | 6♍48'35 | 10♎17 | 18♌27 | 27♎6 | 24♌58 | 1♍9 | 3♌58 | 10°56 | 15°R37 | 19°R14 | 29°R3 | 27°R30 | 6°54 | n.a. |

Delta T = 8607.94 sec.

Julian Calendar

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SWISS EPHEMERIS for the year 191

NOVEMBER 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|------|------|--------|-------|--------|--------|-------|-------|------|
| M 1 | 2 35 27 | 7♏49'29 | 22♏32 | 18♏50 | 28♏18 | 25♏41 | 1♏23 | 4♏5 | 10°R55 | 15♏38 | 19°R13 | 29♏4 | 27♏27 | 7♏1 | n.a. |
| T 2 | 2 39 23 | 8°50'23 | 5♏4 | 19°21 | 29°30 | 26°23 | 1°36 | 4°11 | 10♏54 | 15°39 | 19♏12 | 29°R4 | 27°24 | 7°7 | n.a. |
| W 3 | 2 43 20 | 9°51'20 | 17°55 | 20°0 | 0♏42 | 27°6 | 1°49 | 4°18 | 10°54 | 15°40 | 19°11 | 29°2 | 27°21 | 7°14 | n.a. |
| T 4 | 2 47 16 | 10°52'17 | 1♏7 | 20°46 | 1°54 | 27°48 | 2°3 | 4°24 | 10°53 | 15°41 | 19°10 | 28°59 | 27°18 | 7°21 | n.a. |
| F 5 | 2 51 13 | 11°53'16 | 14°39 | 21°38 | 3°7 | 28°30 | 2°16 | 4°31 | 10°52 | 15°42 | 19°9 | 28°53 | 27°15 | 7°28 | n.a. |
| S 6 | 2 55 9 | 12°54'16 | 28°28 | 22°35 | 4°19 | 29°13 | 2°29 | 4°38 | 10°51 | 15°44 | 19°8 | 28°46 | 27°11 | 7°34 | n.a. |
| S 7 | 2 59 6 | 13°55'17 | 12♏31 | 23°37 | 5°32 | 29°56 | 2°42 | 4°45 | 10°50 | 15°45 | 19°7 | 28°38 | 27°8 | 7°41 | n.a. |
| M 8 | 3 3 2 | 14°56'19 | 26°43 | 24°43 | 6°45 | 0♏38 | 2°56 | 4°51 | 10°49 | 15°46 | 19°6 | 28°31 | 27°5 | 7°48 | n.a. |
| T 9 | 3 6 59 | 15°57'22 | 10♏59 | 25°53 | 7°57 | 1°21 | 3°9 | 4°58 | 10°48 | 15°47 | 19°5 | 28°24 | 27°2 | 7°54 | n.a. |
| W10 | 3 10 56 | 16°58'26 | 25°15 | 27°5 | 9°10 | 2°3 | 3°22 | 5°5 | 10°46 | 15°49 | 19°4 | 28°20 | 26°59 | 8°1 | n.a. |
| T 11 | 3 14 52 | 17°59'30 | 9♏28 | 28°21 | 10°23 | 2°46 | 3°35 | 5°12 | 10°45 | 15°50 | 19°3 | 28°18 | 26°56 | 8°8 | n.a. |
| F 12 | 3 18 49 | 19°0'34 | 23°35 | 29°38 | 11°36 | 3°29 | 3°49 | 5°19 | 10°44 | 15°52 | 19°2 | 28°D18 | 26°52 | 8°14 | n.a. |
| S 13 | 3 22 45 | 20°1'40 | 7♏35 | 0♏58 | 12°49 | 4°12 | 4°2 | 5°25 | 10°42 | 15°53 | 19°1 | 28°19 | 26°49 | 8°21 | n.a. |
| S 14 | 3 26 42 | 21°2'45 | 21°28 | 2°19 | 14°2 | 4°55 | 4°15 | 5°32 | 10°41 | 15°55 | 19°0 | 28°R20 | 26°46 | 8°28 | n.a. |
| M15 | 3 30 38 | 22°3'51 | 5♏13 | 3°41 | 15°16 | 5°38 | 4°28 | 5°39 | 10°40 | 15°56 | 18°59 | 28°19 | 26°43 | 8°34 | n.a. |
| T 16 | 3 34 35 | 23°4'58 | 18°50 | 5°5 | 16°29 | 6°21 | 4°41 | 5°46 | 10°38 | 15°58 | 18°58 | 28°18 | 26°40 | 8°41 | n.a. |
| W17 | 3 38 31 | 24°6'05 | 2♏17 | 6°30 | 17°42 | 7°3 | 4°54 | 5°53 | 10°37 | 15°59 | 18°56 | 28°13 | 26°36 | 8°48 | n.a. |
| T 18 | 3 42 28 | 25°7'13 | 15°33 | 7°56 | 18°55 | 7°47 | 5°7 | 6°0 | 10°35 | 16°1 | 18°55 | 28°6 | 26°33 | 8°55 | n.a. |
| F 19 | 3 46 25 | 26°8'22 | 28°37 | 9°22 | 20°9 | 8°30 | 5°20 | 6°7 | 10°34 | 16°2 | 18°54 | 27°56 | 26°30 | 9°1 | n.a. |
| S 20 | 3 50 21 | 27°9'31 | 11♏26 | 10°50 | 21°22 | 9°13 | 5°33 | 6°14 | 10°32 | 16°4 | 18°53 | 27°45 | 26°27 | 9°8 | n.a. |
| S 21 | 3 54 18 | 28°10'41 | 24°1 | 12°18 | 22°36 | 9°56 | 5°46 | 6°21 | 10°30 | 16°6 | 18°52 | 27°34 | 26°24 | 9°15 | n.a. |
| M22 | 3 58 14 | 29°11'51 | 6♏22 | 13°46 | 23°49 | 10°39 | 5°59 | 6°28 | 10°28 | 16°7 | 18°51 | 27°22 | 26°21 | 9°21 | n.a. |
| T 23 | 4 2 11 | 0♏13'02 | 18°30 | 15°15 | 25°3 | 11°22 | 6°12 | 6°35 | 10°27 | 16°9 | 18°50 | 27°13 | 26°17 | 9°28 | n.a. |
| W24 | 4 6 7 | 1°14'14 | 0♏27 | 16°45 | 26°17 | 12°6 | 6°25 | 6°42 | 10°25 | 16°11 | 18°48 | 27°6 | 26°14 | 9°35 | n.a. |
| T 25 | 4 10 4 | 2°15'27 | 12°18 | 18°15 | 27°30 | 12°49 | 6°37 | 6°49 | 10°23 | 16°12 | 18°47 | 27°1 | 26°11 | 9°41 | n.a. |
| F 26 | 4 14 0 | 3°16'40 | 24°7 | 19°45 | 28°44 | 13°32 | 6°50 | 6°56 | 10°21 | 16°14 | 18°46 | 26°59 | 26°8 | 9°48 | n.a. |
| S 27 | 4 17 57 | 4°17'53 | 5♏59 | 21°15 | 29°58 | 14°16 | 7°3 | 7°3 | 10°19 | 16°16 | 18°45 | 26°D58 | 26°5 | 9°55 | n.a. |
| S 28 | 4 21 54 | 5°19'07 | 18°0 | 22°46 | 1♏12 | 14°59 | 7°15 | 7°10 | 10°17 | 16°18 | 18°44 | 26°59 | 26°2 | 10°1 | n.a. |
| M29 | 4 25 50 | 6°20'22 | 0♏14 | 24°18 | 2°26 | 15°43 | 7°28 | 7°17 | 10°15 | 16°20 | 18°42 | 26°R59 | 25°58 | 10°8 | n.a. |
| T 30 | 4 29 47 | 7♏21'37 | 12♏47 | 25♏49 | 3♏40 | 16♏26 | 7♏40 | 7♏24 | 10♏13 | 16♏22 | 18♏41 | 26♏58 | 25♏55 | 10♏15 | n.a. |

Delta T = 8607.10 sec.

Julian Calendar 1 Nov. 191 == Greg. Calendar 31 Oct. 191

DECEMBER 191 C.E.JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♁ | ♂ | ♃ | ♅ | ♁ | ♄ | ♁ | ♁ | ♁ | ♁ | ♁ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|------|
| W 1 | 4 33 43 | 8♏22'53 | 25♏43 | 27♏21 | 4♏54 | 17♏10 | 7♏53 | 7♏31 | 10°R11 | 16♏23 | 18°R40 | 26°R54 | 25♏52 | 10♏21 | n.a. |
| T 2 | 4 37 40 | 9°24'09 | 9♏5 | 28°53 | 6°8 | 17°54 | 8°5 | 7°38 | 10♏9 | 16°25 | 18♏39 | 26♏48 | 25°49 | 10°28 | n.a. |
| F 3 | 4 41 36 | 10°25'25 | 22°53 | 0♏26 | 7°22 | 18°37 | 8°18 | 7°45 | 10°7 | 16°27 | 18°37 | 26°39 | 25°46 | 10°35 | n.a. |
| S 4 | 4 45 33 | 11°26'41 | 7♏4 | 1°59 | 8°36 | 19°21 | 8°30 | 7°53 | 10°5 | 16°29 | 18°36 | 26°28 | 25°42 | 10°42 | n.a. |
| S 5 | 4 49 29 | 12°27'58 | 21°34 | 3°32 | 9°50 | 20°5 | 8°42 | 8°0 | 10°2 | 16°31 | 18°35 | 26°16 | 25°39 | 10°48 | n.a. |
| M 6 | 4 53 26 | 13°29'14 | 6♏15 | 5°5 | 11°4 | 20°49 | 8°55 | 8°7 | 10°0 | 16°33 | 18°34 | 26°5 | 25°36 | 10°55 | n.a. |
| T 7 | 4 57 23 | 14°30'30 | 20°59 | 6°39 | 12°19 | 21°32 | 9°7 | 8°14 | 9°58 | 16°35 | 18°32 | 25°55 | 25°33 | 11°2 | n.a. |
| W 8 | 5 1 19 | 15°31'46 | 5♏39 | 8°13 | 13°33 | 22°16 | 9°19 | 8°21 | 9°56 | 16°37 | 18°31 | 25°47 | 25°30 | 11°8 | n.a. |
| T 9 | 5 5 16 | 16°33'02 | 20°9 | 9°47 | 14°47 | 23°0 | 9°31 | 8°28 | 9°53 | 16°39 | 18°30 | 25°42 | 25°27 | 11°15 | n.a. |
| F 10 | 5 9 12 | 17°34'17 | 4♏24 | 11°22 | 16°1 | 23°44 | 9°43 | 8°35 | 9°51 | 16°41 | 18°29 | 25°40 | 25°23 | 11°22 | n.a. |
| S 11 | 5 13 9 | 18°35'31 | 18°23 | 12°57 | 17°16 | 24°28 | 9°55 | 8°42 | 9°49 | 16°43 | 18°27 | 25°40 | 25°20 | 11°28 | n.a. |
| S 12 | 5 17 5 | 19°36'45 | 2♏7 | 14°33 | 18°30 | 25°12 | 10°6 | 8°49 | 9°46 | 16°45 | 18°26 | 25°40 | 25°17 | 11°35 | n.a. |
| M13 | 5 21 2 | 20°37'58 | 15°36 | 16°8 | 19°44 | 25°56 | 10°18 | 8°56 | 9°44 | 16°47 | 18°25 | 25°39 | 25°14 | 11°42 | n.a. |
| T 14 | 5 24 58 | 21°39'11 | 28°52 | 17°45 | 20°58 | 26°40 | 10°30 | 9°3 | 9°41 | 16°49 | 18°24 | 25°36 | 25°11 | 11°48 | n.a. |
| W15 | 5 28 55 | 22°40'23 | 11♏56 | 19°21 | 22°13 | 27°24 | 10°42 | 9°10 | 9°39 | 16°52 | 18°22 | 25°29 | 25°8 | 11°55 | n.a. |
| T 16 | 5 32 52 | 23°41'34 | 24°50 | 20°59 | 23°27 | 28°9 | 10°53 | 9°16 | 9°36 | 16°54 | 18°21 | 25°20 | 25°4 | 12°2 | n.a. |
| F 17 | 5 36 48 | 24°42'45 | 7♏32 | 22°36 | 24°42 | 28°53 | 11°5 | 9°23 | 9°34 | 16°56 | 18°20 | 25°8 | 25°1 | 12°8 | n.a. |
| S 18 | 5 40 45 | 25°43'55 | 20°5 | 24°14 | 25°56 | 29°37 | 11°16 | 9°30 | 9°31 | 16°58 | 18°19 | 24°54 | 24°58 | 12°15 | n.a. |
| S 19 | 5 44 41 | 26°45'05 | 2♏27 | 25°53 | 27°10 | 0♏21 | 11°27 | 9°37 | 9°29 | 17°0 | 18°17 | 24°39 | 24°55 | 12°22 | n.a. |
| M20 | 5 48 38 | 27°46'14 | 14°38 | 27°32 | 28°25 | 1°6 | 11°38 | 9°44 | 9°26 | 17°2 | 18°16 | 24°25 | 24°52 | 12°28 | n.a. |
| T 21 | 5 52 34 | 28°47'23 | 26°41 | 29°12 | 29°39 | 1°50 | 11°50 | 9°51 | 9°24 | 17°4 | 18°15 | 24°12 | 24°48 | 12°35 | n.a. |
| W22 | 5 56 31 | 29°48'31 | 8♏35 | 0♏52 | 0♏54 | 2°35 | 12°1 | 9°58 | 9°21 | 17°7 | 18°14 | 24°2 | 24°45 | 12°42 | n.a. |
| T 23 | 6 0 27 | 0♏49'38 | 20°24 | 2°33 | 2°8 | 3°19 | 12°12 | 10°4 | 9°19 | 17°9 | 18°12 | 23°55 | 24°42 | 12°49 | n.a. |
| F 24 | 6 4 24 | 1°50'45 | 2♏12 | 4°14 | 3°23 | 4°4 | 12°23 | 10°11 | 9°16 | 17°11 | 18°11 | 23°51 | 24°39 | 12°55 | n.a. |
| S 25 | 6 8 21 | 2°51'52 | 14°2 | 5°56 | 4°37 | 4°48 | 12°33 | 10°18 | 9°14 | 17°13 | 18°10 | 23°50 | 24°36 | 13°2 | n.a. |
| S 26 | 6 12 17 | 3°52'58 | 26°0 | 7°38 | 5°52 | 5°33 | 12°44 | 10°24 | 9°11 | 17°15 | 18°9 | 23°D49 | 24°33 | 13°9 | n.a. |
| M27 | 6 16 14 | 4°54'03 | 8♏11 | 9°21 | 7°6 | 6°17 | 12°55 | 10°31 | 9°8 | 17°18 | 18°8 | 23°R49 | 24°29 | 13°15 | n.a. |
| T 28 | 6 20 10 | 5°55'08 | 20°40 | 11°4 | 8°21 | 7°2 | 13°5 | 10°38 | 9°6 | 17°20 | 18°6 | 23°49 | 24°26 | 13°22 | n.a. |
| W29 | 6 24 7 | 6°56'12 | 3♏33 | 12°48 | 9°35 | 7°47 | 13°16 | 10°44 | 9°3 | 17°22 | 18°5 | 23°46 | 24°23 | 13°29 | n.a. |
| T 30 | 6 28 3 | 7°57'15 | 16°53 | 14°32 | 10°50 | 8°31 | 13°26 | 10°51 | 9°1 | 17°24 | 18°4 | 23°41 | 24°20 | 13°35 | n.a. |
| F 31 | 6 32 0 | 8♏58'18 | 0♏43 | 16♏16 | 12♏4 | 9♏16 | 13♏36 | 10♏57 | 8♏58 | 17♏27 | 18♏3 | 23♏33 | 24♏17 | 13♏42 | n.a. |

Delta T = 8606.28 sec.

Julian Calendar

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