



Astrodienst Ephemeris Tables for the year 1920

Positions modulo 16, tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPH

ASTRODIENST EPHEMERIS for the year 1920
geocentric

JANUARY 1920 mod 16

00:00 UT

| Day | Sid.t | ☉ | ☾ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|------|-------|-------|------|------|------|------|------|------|
| T 1 | 6 37 25 | 9°16'53 | 9°35 | 12°13 | 11° 2 | 16°30 | 2° 0 | 4° 7 | 13°58 | 18°28 | 6°41 | 8°53 | 7°23 | 0°31 | 2°37 | T 1 |
| F 2 | 6 41 22 | 10°18'02 | 1°26 | 13°35 | 12°12 | 17° 0 | 1°55 | 4° 6 | 14° 1 | 18°26 | 6°39 | 8°54 | 7°20 | 0°38 | 2°38 | F 2 |
| S 3 | 6 45 18 | 11°19'11 | 16° 6 | 14°59 | 13°22 | 17°29 | 1°50 | 4° 5 | 14° 3 | 18°25 | 6°38 | 8°54 | 7°17 | 0°45 | 2°39 | S 3 |
| S 4 | 6 49 15 | 12°20'20 | 8°31 | 16°23 | 14°33 | 17°58 | 1°44 | 4° 3 | 14° 6 | 18°23 | 6°37 | 8°53 | 7°14 | 0°51 | 2°40 | S 4 |
| M 5 | 6 53 12 | 13°21'28 | 1° 3 | 17°48 | 15°43 | 18°26 | 1°39 | 4° 2 | 14° 8 | 18°22 | 6°36 | 8°48 | 7°10 | 0°58 | 2°41 | M 5 |
| T 6 | 6 57 8 | 14°22'36 | 16° 5 | 19°14 | 16°54 | 18°55 | 1°33 | 4° 1 | 14°11 | 18°21 | 6°35 | 8°42 | 7° 7 | 1° 5 | 2°42 | T 6 |
| W 7 | 7 1 5 | 15°23'44 | 8°25 | 20°41 | 18° 5 | 19°23 | 1°27 | 3°59 | 14°14 | 18°19 | 6°33 | 8°34 | 7° 4 | 1°11 | 2°43 | W 7 |
| T 8 | 7 5 1 | 16°24'53 | 0°27 | 22° 8 | 19°16 | 19°51 | 1°21 | 3°57 | 14°16 | 18°18 | 6°32 | 8°25 | 7° 1 | 1°18 | 2°44 | T 8 |
| F 9 | 7 8 58 | 17°26'01 | 14°34 | 1° 6 | 20°27 | 20°19 | 1°15 | 3°56 | 14°19 | 18°16 | 6°31 | 8°16 | 6°58 | 1°25 | 2°46 | F 9 |
| S 10 | 7 12 54 | 18°27'08 | 5°42 | 2°35 | 21°38 | 20°47 | 1° 9 | 3°54 | 14°22 | 18°15 | 6°30 | 8° 9 | 6°55 | 1°31 | 2°47 | S 10 |
| S 11 | 7 16 51 | 19°28'16 | 18°51 | 4° 4 | 0°19 | 21°15 | 1° 3 | 3°52 | 14°25 | 18°13 | 6°29 | 8° 4 | 6°51 | 1°38 | 2°49 | S 11 |
| M 12 | 7 20 47 | 20°29'24 | 9° 5 | 5°34 | 1°30 | 21°42 | 0°56 | 3°50 | 14°28 | 18°11 | 6°27 | 8° 1 | 6°48 | 1°45 | 2°50 | M 12 |
| T 13 | 7 24 44 | 21°30'32 | 21°27 | 7° 4 | 2°42 | 22° 9 | 0°49 | 3°48 | 14°31 | 18°10 | 6°26 | 8° 1 | 6°45 | 1°51 | 2°52 | T 13 |
| W 14 | 7 28 41 | 0° 1'40 | 11° 1 | 8°34 | 3°53 | 0° 7 | 0°43 | 3°45 | 14°33 | 18° 8 | 6°25 | 8° 1 | 6°42 | 1°58 | 2°53 | W 14 |
| T 15 | 7 32 37 | 1° 2'47 | 0°25 | 10° 6 | 5° 5 | 0°33 | 0°36 | 3°43 | 14°36 | 18° 7 | 6°24 | 8° 2 | 6°39 | 2° 5 | 2°55 | T 15 |
| F 16 | 7 36 34 | 2° 3'55 | 12°12 | 11°38 | 6°16 | 1° 0 | 0°29 | 3°40 | 14°39 | 18° 5 | 6°23 | 8° 2 | 6°35 | 2°11 | 2°56 | F 16 |
| S 17 | 7 40 30 | 3° 5'02 | 1°28 | 13°10 | 7°28 | 1°26 | 0°22 | 3°38 | 14°42 | 18° 4 | 6°22 | 8° 1 | 6°32 | 2°18 | 2°58 | S 17 |
| S 18 | 7 44 27 | 4° 6'09 | 13°17 | 14°43 | 8°40 | 1°52 | 0°15 | 3°35 | 14°45 | 18° 2 | 6°20 | 7°57 | 6°29 | 2°25 | 3° 0 | S 18 |
| M 19 | 7 48 23 | 5° 7'16 | 2°43 | 16°16 | 9°52 | 2°18 | 0° 7 | 3°32 | 14°48 | 18° 0 | 6°19 | 7°50 | 6°26 | 2°31 | 3° 2 | M 19 |
| T 20 | 7 52 20 | 6° 8'22 | 14°48 | 17°50 | 11° 4 | 2°44 | 22°30 | 3°30 | 14°51 | 17°59 | 6°18 | 7°41 | 6°23 | 2°38 | 3° 4 | T 20 |
| W 21 | 7 56 17 | 7° 9'27 | 4°35 | 19°24 | 12°16 | 3° 9 | 22°23 | 3°27 | 14°54 | 17°57 | 6°17 | 7°29 | 6°20 | 2°44 | 3° 5 | W 21 |
| T 22 | 8 0 13 | 8°10'32 | 17° 3 | 20°59 | 13°28 | 3°34 | 22°15 | 3°24 | 14°58 | 17°55 | 6°16 | 7°16 | 6°16 | 2°51 | 3° 7 | T 22 |
| F 23 | 8 4 10 | 9°11'36 | 7°13 | 0° 5 | 14°40 | 3°59 | 22° 7 | 3°21 | 15° 1 | 17°54 | 6°15 | 7° 3 | 6°13 | 2°58 | 3° 9 | F 23 |
| S 24 | 8 8 6 | 10°12'39 | 20° 5 | 1°41 | 15°52 | 4°24 | 22° 0 | 3°17 | 15° 4 | 17°52 | 6°14 | 6°51 | 6°10 | 3° 4 | 3°12 | S 24 |
| S 25 | 8 12 3 | 11°13'42 | 10°38 | 3°18 | 17° 4 | 4°48 | 21°52 | 3°14 | 15° 7 | 17°50 | 6°13 | 6°41 | 6° 7 | 3°11 | 3°14 | S 25 |
| M 26 | 8 15 59 | 12°14'43 | 1°22 | 4°55 | 18°17 | 5°12 | 21°44 | 3°11 | 15°10 | 17°49 | 6°12 | 6°34 | 6° 4 | 3°18 | 3°16 | M 26 |
| T 27 | 8 19 56 | 13°15'43 | 14°48 | 6°33 | 19°29 | 5°36 | 21°36 | 3° 7 | 15°13 | 17°47 | 6°11 | 6°30 | 6° 1 | 3°24 | 3°18 | T 27 |
| W 28 | 8 23 52 | 14°16'42 | 5°57 | 8°12 | 20°42 | 6° 0 | 21°29 | 3° 4 | 15°17 | 17°45 | 6°10 | 6°29 | 5°57 | 3°31 | 3°20 | W 28 |
| T 29 | 8 27 49 | 15°17'40 | 19°48 | 9°51 | 21°54 | 6°23 | 21°21 | 3° 0 | 15°20 | 17°44 | 6° 8 | 6°28 | 5°54 | 3°38 | 3°22 | T 29 |
| F 30 | 8 31 45 | 16°18'36 | 11°23 | 11°31 | 0°37 | 6°46 | 21°13 | 2°57 | 15°23 | 17°42 | 6° 7 | 6°28 | 5°51 | 3°44 | 3°25 | F 30 |
| S 31 | 8 35 42 | 17°19'31 | 3°12 | 13°12 | 1°49 | 7° 8 | 21° 5 | 2°53 | 15°26 | 17°40 | 6° 6 | 6°27 | 5°48 | 3°51 | 3°27 | S 31 |

Delta T = 21.61 sec

FEBRUARY 1920 mod 16

00:00 UT

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

Delta T = 21.66 sec

ASTRODIENST EPHEMERIS for the year 1920

geocentric

MARCH 1920 mod 16

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|------|
| M 1 | 10 33 59 | 2°37'22 | 19°44 | 20°18 | 15°52 | 15°27 | 17°23 | 0°38 | 17° 9 | 16°52 | 5°44 | 3°17 | 4°12 | 7°11 | 4°53 | M 1 |
| T 2 | 10 37 55 | 3°37'32 | 11°25 | 21°34 | 17° 6 | 15°36 | 17°17 | 0°34 | 17°12 | 16°51 | 5°44 | 3° 9 | 4° 9 | 7°17 | 4°56 | T 2 |
| W 3 | 10 41 52 | 4°37'40 | 3° 0 | 0°13 | 18°19 | 15°45 | 17°12 | 0°29 | 17°16 | 16°50 | 5°44 | 2°59 | 4° 6 | 7°24 | 5° 0 | W 3 |
| T 4 | 10 45 48 | 5°37'46 | 16°55 | 1°15 | 19°33 | 15°53 | 17° 6 | 0°24 | 17°19 | 16°48 | 5°43 | 2°48 | 4° 3 | 7°31 | 5° 3 | T 4 |
| F 5 | 10 49 45 | 6°37'50 | 8° 6 | 2°10 | 20°46 | 16° 0 | 17° 0 | 0°19 | 17°23 | 16°47 | 5°43 | 2°38 | 4° 0 | 7°37 | 5° 6 | F 5 |
| S 6 | 10 53 41 | 7°37'53 | 21°28 | 2°56 | 21°59 | 16° 6 | 16°55 | 0°14 | 17°26 | 16°46 | 5°43 | 2°28 | 3°57 | 7°44 | 5°10 | S 6 |
| S 7 | 10 57 38 | 8°37'53 | 12° 0 | 3°35 | 0°43 | 16°12 | 16°50 | 0°10 | 17°29 | 16°44 | 5°42 | 2°20 | 3°53 | 7°51 | 5°13 | S 7 |
| M 8 | 11 1 35 | 9°37'52 | 2°13 | 4° 5 | 1°57 | 16°18 | 16°45 | 0° 5 | 17°33 | 16°43 | 5°42 | 2°15 | 3°50 | 7°57 | 5°17 | M 8 |
| T 9 | 11 5 31 | 10°37'49 | 14°37 | 4°26 | 3°10 | 16°22 | 16°40 | 0° 0 | 17°36 | 16°42 | 5°42 | 2°13 | 3°47 | 8° 4 | 5°20 | T 9 |
| W10 | 11 9 28 | 11°37'44 | 4°15 | 4°38 | 4°24 | 16°26 | 16°35 | 22°26 | 17°39 | 16°41 | 5°41 | 2°12 | 3°44 | 8°11 | 5°23 | W10 |
| T 11 | 11 13 24 | 12°37'38 | 16°12 | 4°41 | 5°37 | 16°30 | 16°31 | 22°21 | 17°43 | 16°39 | 5°41 | 2°13 | 3°41 | 8°17 | 5°27 | T 11 |
| F 12 | 11 17 21 | 13°37'30 | 5°32 | 4°36 | 6°51 | 16°32 | 16°26 | 22°16 | 17°46 | 16°38 | 5°41 | 2°14 | 3°38 | 8°24 | 5°30 | F 12 |
| S 13 | 11 21 17 | 14°37'21 | 17°21 | 4°22 | 8° 4 | 16°34 | 16°22 | 22°12 | 17°49 | 16°37 | 5°41 | 2°14 | 3°34 | 8°31 | 5°34 | S 13 |
| S 14 | 11 25 14 | 15°37'09 | 6°44 | 4° 0 | 9°18 | 16°35 | 16°18 | 22° 7 | 17°53 | 16°36 | 5°41 | 2°13 | 3°31 | 8°37 | 5°37 | S 14 |
| M15 | 11 29 10 | 16°36'56 | 18°47 | 3°31 | 10°32 | 16°36 | 16°14 | 22° 3 | 17°56 | 16°35 | 5°40 | 2°10 | 3°28 | 8°44 | 5°41 | M15 |
| T 16 | 11 33 7 | 17°36'42 | 8°33 | 2°55 | 11°45 | 16°36 | 16°11 | 21°58 | 17°59 | 16°34 | 5°40 | 2° 4 | 3°25 | 8°51 | 5°44 | T 16 |
| W17 | 11 37 4 | 18°36'25 | 21° 7 | 2°13 | 12°59 | 16°35 | 16° 7 | 21°54 | 18° 3 | 16°33 | 5°40 | 1°57 | 3°22 | 8°57 | 5°48 | W17 |
| T 18 | 11 41 0 | 19°36'07 | 11°30 | 1°26 | 14°12 | 16°33 | 16° 4 | 21°49 | 18° 6 | 16°32 | 5°40 | 1°49 | 3°18 | 9° 4 | 5°51 | T 18 |
| F 19 | 11 44 57 | 20°35'46 | 2°14 | 0°36 | 15°26 | 16°30 | 16° 1 | 21°45 | 18° 9 | 16°31 | 5°40 | 1°40 | 3°15 | 9°11 | 5°55 | F 19 |
| S 20 | 11 48 53 | 21°35'24 | 15°47 | 22°13 | 16°40 | 16°27 | 15°58 | 21°41 | 18°12 | 16°30 | 5°40 | 1°32 | 3°12 | 9°17 | 5°58 | S 20 |
| S 21 | 11 52 50 | 0° 5'00 | 7° 7 | 21°19 | 17°53 | 16°23 | 15°55 | 21°37 | 18°15 | 16°29 | 5°40 | 1°25 | 3° 9 | 9°24 | 6° 2 | S 21 |
| M22 | 11 56 46 | 1° 4'33 | 21°10 | 20°25 | 19° 7 | 16°18 | 15°52 | 21°32 | 18°19 | 16°28 | 5°40 | 1°20 | 3° 6 | 9°31 | 6° 5 | M22 |
| T 23 | 12 0 43 | 2° 4'05 | 12°51 | 19°31 | 20°21 | 16°12 | 15°50 | 21°28 | 18°22 | 16°27 | 5°40 | 1°18 | 3° 3 | 9°37 | 6° 9 | T 23 |
| W24 | 12 4 39 | 3° 3'35 | 4°38 | 18°39 | 21°34 | 16° 6 | 15°48 | 21°24 | 18°25 | 16°26 | 5°40 | 1°17 | 2°59 | 9°44 | 6°12 | W24 |
| T 25 | 12 8 36 | 4° 3'02 | 18°55 | 17°51 | 0°18 | 15°59 | 15°46 | 21°20 | 18°28 | 16°25 | 5°40 | 1°18 | 2°56 | 9°51 | 6°16 | T 25 |
| F 26 | 12 12 32 | 5° 2'27 | 10°40 | 17° 6 | 1°32 | 15°51 | 15°44 | 21°16 | 18°31 | 16°25 | 5°41 | 1°20 | 2°53 | 9°57 | 6°19 | F 26 |
| S 27 | 12 16 29 | 6° 1'49 | 2°20 | 16°25 | 2°45 | 15°42 | 15°42 | 21°13 | 18°34 | 16°24 | 5°41 | 1°20 | 2°50 | 10° 4 | 6°23 | S 27 |
| S 28 | 12 20 26 | 7° 1'09 | 16°25 | 15°49 | 3°59 | 15°33 | 15°41 | 21° 9 | 18°37 | 16°23 | 5°41 | 1°20 | 2°47 | 10°11 | 6°26 | S 28 |
| M29 | 12 24 22 | 8° 0'27 | 7°53 | 15°18 | 5°12 | 15°23 | 15°40 | 21° 5 | 18°40 | 16°22 | 5°41 | 1°18 | 2°44 | 10°17 | 6°30 | M29 |
| T 30 | 12 28 19 | 8°59'43 | 21°42 | 14°53 | 6°26 | 15°12 | 15°39 | 21° 1 | 18°43 | 16°22 | 5°41 | 1°14 | 2°40 | 10°24 | 6°33 | T 30 |
| W31 | 12 32 15 | 9°58'56 | 12°51 | 14°34 | 7°40 | 15° 0 | 15°38 | 20°58 | 18°46 | 16°21 | 5°42 | 1° 9 | 2°37 | 10°31 | 6°37 | W31 |

Delta T = 21.71 sec

APRIL 1920 mod 16

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|------|
| T 1 | 12 36 12 | 10°58'06 | 3°49 | 14°20 | 8°53 | 14°48 | 15°37 | 20°54 | 18°49 | 16°20 | 5°42 | 1° 4 | 2°34 | 10°37 | 6°40 | T 1 |
| F 2 | 12 40 8 | 11°57'15 | 17° 4 | 14°12 | 10° 7 | 14°34 | 15°37 | 20°51 | 18°52 | 16°20 | 5°42 | 0°58 | 2°31 | 10°44 | 6°44 | F 2 |
| S 3 | 12 44 5 | 12°56'21 | 7°34 | 14° 9 | 11°21 | 14°21 | 15°36 | 20°48 | 18°55 | 16°19 | 5°42 | 0°53 | 2°28 | 10°51 | 6°47 | S 3 |
| S 4 | 12 48 1 | 13°55'26 | 20°19 | 14°12 | 12°34 | 14° 6 | 15°36 | 20°44 | 18°58 | 16°19 | 5°43 | 0°49 | 2°24 | 10°57 | 6°51 | S 4 |
| M 5 | 12 51 58 | 14°54'28 | 10°19 | 14°21 | 13°48 | 13°51 | 15°36 | 20°41 | 19° 0 | 16°18 | 5°43 | 0°47 | 2°21 | 11° 4 | 6°54 | M 5 |
| T 6 | 12 55 55 | 15°53'29 | 0° 5 | 14°34 | 15° 2 | 13°35 | 15°37 | 20°38 | 19° 3 | 16°18 | 5°44 | 0°46 | 2°18 | 11°11 | 6°58 | T 6 |
| W 7 | 12 59 51 | 16°52'27 | 12°10 | 14°53 | 16°15 | 13°18 | 15°37 | 20°35 | 19° 6 | 16°17 | 5°44 | 0°46 | 2°15 | 11°17 | 7° 1 | W 7 |
| T 8 | 13 3 48 | 17°51'24 | 1°35 | 15°16 | 17°29 | 13° 1 | 15°38 | 20°32 | 19° 9 | 16°17 | 5°44 | 0°48 | 2°12 | 11°24 | 7° 5 | T 8 |
| F 9 | 13 7 44 | 18°50'19 | 13°26 | 15°44 | 18°43 | 12°43 | 15°38 | 20°29 | 19°11 | 16°17 | 5°45 | 0°50 | 2° 9 | 11°31 | 7° 8 | F 9 |
| S 10 | 13 11 41 | 19°49'12 | 2°46 | 16°16 | 19°56 | 12°25 | 15°40 | 20°26 | 19°14 | 16°16 | 5°45 | 0°51 | 2° 5 | 11°37 | 7°12 | S 10 |
| S 11 | 13 15 37 | 20°48'04 | 14°39 | 16°52 | 21°10 | 12° 6 | 15°41 | 20°24 | 19°17 | 16°16 | 5°46 | 0°52 | 2° 2 | 11°44 | 7°15 | S 11 |
| M12 | 13 19 34 | 21°46'53 | 4°11 | 17°32 | 22°24 | 11°47 | 15°42 | 20°21 | 19°19 | 16°16 | 5°46 | 0°52 | 1°59 | 11°51 | 7°19 | M12 |
| T 13 | 13 23 30 | 0°15'41 | 16°27 | 18°16 | 1° 7 | 11°27 | 15°44 | 20°19 | 19°22 | 16°15 | 5°47 | 0°51 | 1°56 | 11°57 | 7°22 | T 13 |
| W14 | 13 27 27 | 1°14'27 | 6°31 | 19° 3 | 2°21 | 11° 6 | 15°45 | 20°16 | 19°24 | 16°15 | 5°47 | 0°49 | 1°53 | 12° 4 | 7°26 | W14 |
| T 15 | 13 31 24 | 2°13'12 | 19°26 | 19°54 | 3°34 | 10°46 | 15°47 | 20°14 | 19°27 | 16°15 | 5°48 | 0°47 | 1°49 | 12°11 | 7°29 | T 15 |
| F 16 | 13 35 20 | 3°11'55 | 10°15 | 20°48 | 4°48 | 10°24 | 15°50 | 20°12 | 19°29 | 16°15 | 5°49 | 0°44 | 1°46 | 12°17 | 7°32 | F 16 |
| S 17 | 13 39 17 | 4°10'35 | 1°27 | 21°45 | 6° 2 | 10° 3 | 15°52 | 20°10 | 19°32 | 16°15 | 5°49 | 0°41 | 1°43 | 12°24 | 7°36 | S 17 |
| S 18 | 13 43 13 | 5° 9'14 | 15°32 | 0°15 | 7°15 | 9°41 | 15°54 | 20° 8 | 19°34 | 16°15 | 5°50 | 0°39 | 1°40 | 12°31 | 7°39 | S 18 |
| M19 | 13 47 10 | 6° 7'52 | 7°25 | 1°18 | 8°29 | 9°19 | 15°57 | 20° 6 | 19°36 | 16°15 | 5°51 | 0°37 | 1°37 | 12°37 | 7°42 | M19 |
| T 20 | 13 51 6 | 7° 6'27 | 22° 2 | 2°23 | 9°43 | 8°57 | 16° 0 | 20° 4 | 19°39 | 16°15 | 5°51 | 0°37 | 1°34 | 12°44 | 7°46 | T 20 |
| W21 | 13 55 3 | 8° 5'00 | 14°14 | 3°31 | 10°56 | 8°34 | 16° 3 | 20° 2 | 19°41 | 16°15 | 5°52 | 0°37 | 1°30 | 12°51 | 7°49 | W21 |
| T 22 | 13 58 59 | 9° 3'32 | 6°27 | 4°41 | 12°10 | 8°12 | 16° 6 | 20° 1 | 19°43 | 16°15 | 5°53 | 0°38 | 1°27 | 12°57 | 7°52 | T 22 |
| F 23 | 14 2 56 | 10° 2'01 | 21° 4 | 5°54 | 13°24 | 7°49 | 16° 9 | 19°59 | 19°46 | 16°15 | 5°53 | 0°39 | 1°24 | 13° 4 | 7°56 | F 23 |
| S 24 | 14 6 53 | 11° 0'28 | 13° 0 | 7° 9 | 14°37 | 7°27 | 16°13 | 19°58 | 19°48 | 16°15 | 5°54 | 0°40 | 1°21 | 13°11 | 7°59 | S 24 |
| S 25 | 14 10 49 | 11°58'53 | 4°41 | 8°26 | 15°51 | 7° 4 | 16°17 | 19°56 | 19°50 | 16°15 | 5°55 | 0°40 | 1°18 | 13°17 | 8° 2 | S 25 |
| M26 | 14 14 46 | 12°57'16 | 18°37 | 9°46 | 17° 5 | 6°42 | 16°21 | 19°55 | 19°52 | 16°15 | 5°56 | 0°41 | 1°15 | 13°24 | 8° 5 | M26 |
| T 27 | 14 18 42 | 13°55'36 | 9°45 | 11° 7 | 18°18 | 6°19 | 16°25 | 19°54 | 19°54 | 16°16 | 5°57 | 0°40 | 1°11 | 13°31 | 8° 9 | T 27 |
| W28 | 14 22 39 | 14°53'54 | 0°38 | 12°31 | 19°32 | 5°57 | 16°29 | 19°53 | 19°56 | 16°16 | 5°57 | 0°39 | 1° 8 | 13°37 | 8°12 | W28 |
| T 29 | 14 26 35 | 15°52'11 | 13°44 | 13°56 | 20°45 | 5°35 | 16°33 | 19°52 | 19°58 | 16°16 | 5°58 | 0°38 | 1° 5 | 13°44 | 8°15 | T 29 |
| F 30 | 14 30 32 | 16°50'25 | 4° 6 | 15°24 | 21°59 | 5°13 | 16°38 | 19°51 | 20° 0 | 16°17 | 5°59 | 0°38 | 1° 2 | 13°51 | 8°18 | F 30 |

Delta T = 21.76 sec

ASTRODIENST EPHEMERIS for the year 1920

geocentric

MAY 1920 mod 16

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|------|------|
| S 1 | 14 34 28 | 17°48'37 | 16°44 | 16°54 | 0°42 | 4°52 | 16°42 | 19°51 | 20° 2 | 16°17 | 6° 0 | 0°37 | 0°59 | 13°57 | 8°21 | S 1 |
| S 2 | 14 38 25 | 18°46'48 | 6°40 | 18°25 | 1°56 | 4°30 | 16°47 | 19°50 | 20° 4 | 16°17 | 6° 1 | 0°36 | 0°55 | 14° 4 | 8°24 | S 2 |
| M 3 | 14 42 21 | 19°44'57 | 18°55 | 19°59 | 3°10 | 4°10 | 16°52 | 19°50 | 20° 6 | 16°18 | 6° 2 | 0°36 | 0°52 | 14°11 | 8°27 | M 3 |
| T 4 | 14 46 18 | 20°43'04 | 8°31 | 21°34 | 4°23 | 3°49 | 16°58 | 19°49 | 20° 7 | 16°18 | 6° 3 | 0°36 | 0°49 | 14°17 | 8°30 | T 4 |
| W 5 | 14 50 15 | 21°41'09 | 20°29 | 0°41 | 5°37 | 3°29 | 17° 3 | 19°49 | 20° 9 | 16°19 | 6° 4 | 0°36 | 0°46 | 14°24 | 8°33 | W 5 |
| T 6 | 14 54 11 | 0° 9'13 | 9°51 | 2°21 | 6°50 | 3°10 | 17° 8 | 19°49 | 20°11 | 16°19 | 6° 5 | 0°36 | 0°43 | 14°31 | 8°36 | T 6 |
| F 7 | 14 58 8 | 1° 7'16 | 21°41 | 4° 2 | 8° 4 | 2°51 | 17°14 | 19°49 | 20°12 | 16°20 | 6° 6 | 0°36 | 0°40 | 14°37 | 8°39 | F 7 |
| S 8 | 15 2 4 | 2° 5'17 | 11° 1 | 5°45 | 9°18 | 2°32 | 17°20 | 19°49 | 20°14 | 16°20 | 6° 7 | 0°36 | 0°36 | 14°44 | 8°42 | S 8 |
| S 9 | 15 6 1 | 3° 3'16 | 0°26 | 7°30 | 10°31 | 2°14 | 17°26 | 19°49 | 20°16 | 16°21 | 6° 8 | 0°36 | 0°33 | 14°51 | 8°45 | S 9 |
| M10 | 15 9 57 | 4° 1'14 | 12°28 | 9°17 | 11°45 | 1°57 | 17°32 | 19°49 | 20°17 | 16°22 | 6° 9 | 0°36 | 0°30 | 14°57 | 8°48 | M10 |
| T 11 | 15 13 54 | 4°59'11 | 2°12 | 11° 6 | 12°58 | 1°40 | 17°38 | 19°50 | 20°18 | 16°22 | 6°10 | 0°36 | 0°27 | 15° 4 | 8°51 | T 11 |
| W12 | 15 17 50 | 5°57'07 | 14°43 | 12°57 | 14°12 | 1°24 | 17°44 | 19°50 | 20°20 | 16°23 | 6°11 | 0°36 | 0°24 | 15°11 | 8°54 | W12 |
| T 13 | 15 21 47 | 6°55'01 | 5° 5 | 14°50 | 15°25 | 1° 9 | 17°51 | 19°51 | 20°21 | 16°24 | 6°12 | 0°36 | 0°20 | 15°17 | 8°57 | T 13 |
| F 14 | 15 25 44 | 7°52'54 | 18°20 | 16°45 | 16°39 | 0°54 | 17°58 | 19°51 | 20°23 | 16°25 | 6°13 | 0°37 | 0°17 | 15°24 | 8°59 | F 14 |
| S 15 | 15 29 40 | 8°50'46 | 9°31 | 18°42 | 17°53 | 0°40 | 18° 4 | 19°52 | 20°24 | 16°25 | 6°15 | 0°37 | 0°14 | 15°31 | 9° 2 | S 15 |
| S 16 | 15 33 37 | 9°48'36 | 1° 8 | 20°40 | 19° 6 | 0°27 | 18°11 | 19°53 | 20°25 | 16°26 | 6°16 | 0°38 | 0°11 | 15°37 | 9° 5 | S 16 |
| M17 | 15 37 33 | 10°46'25 | 15°40 | 0°11 | 20°20 | 0°15 | 18°18 | 19°54 | 20°26 | 16°27 | 6°17 | 0°39 | 0° 8 | 15°44 | 9° 7 | M17 |
| T 18 | 15 41 30 | 11°44'13 | 8° 0 | 2°13 | 21°33 | 0° 3 | 18°26 | 19°55 | 20°27 | 16°28 | 6°18 | 0°39 | 0° 5 | 15°51 | 9°10 | T 18 |
| W19 | 15 45 26 | 12°42'00 | 0°31 | 4°17 | 0°17 | 22°22 | 18°33 | 19°56 | 20°29 | 16°29 | 6°19 | 0°38 | 0° 1 | 15°57 | 9°13 | W19 |
| T 20 | 15 49 23 | 13°39'45 | 15°36 | 6°22 | 1°31 | 22°12 | 18°40 | 19°58 | 20°30 | 16°30 | 6°21 | 0°37 | 22°28 | 16° 4 | 9°15 | T 20 |
| F 21 | 15 53 19 | 14°37'29 | 8° 5 | 8°29 | 2°44 | 22° 3 | 18°48 | 19°59 | 20°31 | 16°31 | 6°22 | 0°35 | 22°25 | 16°11 | 9°18 | F 21 |
| S 22 | 15 57 16 | 15°35'12 | 0°21 | 10°37 | 3°58 | 21°54 | 18°56 | 20° 1 | 20°32 | 16°32 | 6°23 | 0°34 | 22°22 | 16°17 | 9°20 | S 22 |
| S 23 | 16 1 13 | 16°32'52 | 14°47 | 12°47 | 5°11 | 21°47 | 19° 3 | 20° 2 | 20°32 | 16°33 | 6°24 | 0°32 | 22°19 | 16°24 | 9°23 | S 23 |
| M24 | 16 5 9 | 17°30'31 | 6°20 | 14°57 | 6°25 | 21°40 | 19°11 | 20° 4 | 20°33 | 16°34 | 6°26 | 0°31 | 22°16 | 16°31 | 9°25 | M24 |
| T 25 | 16 9 6 | 18°28'09 | 19°58 | 17° 8 | 7°38 | 21°34 | 19°20 | 20° 6 | 20°34 | 16°35 | 6°27 | 0°31 | 22°12 | 16°37 | 9°27 | T 25 |
| W26 | 16 13 2 | 19°25'45 | 10°44 | 19°20 | 8°52 | 21°29 | 19°28 | 20° 8 | 20°35 | 16°36 | 6°28 | 0°31 | 22° 9 | 16°44 | 9°30 | W26 |
| T 27 | 16 16 59 | 20°23'19 | 1° 9 | 21°32 | 10° 6 | 21°24 | 19°36 | 20°10 | 20°36 | 16°37 | 6°29 | 0°32 | 22° 6 | 16°51 | 9°32 | T 27 |
| F 28 | 16 20 55 | 21°20'52 | 13°47 | 1°14 | 11°19 | 21°21 | 19°44 | 20°12 | 20°36 | 16°39 | 6°31 | 0°34 | 22° 3 | 16°57 | 9°34 | F 28 |
| S 29 | 16 24 52 | 22°18'24 | 3°39 | 3°25 | 12°33 | 21°18 | 19°53 | 20°14 | 20°37 | 16°40 | 6°32 | 0°35 | 22° 0 | 17° 4 | 9°36 | S 29 |
| S 30 | 16 28 48 | 0°45'55 | 15°50 | 5°36 | 13°46 | 21°16 | 20° 2 | 20°16 | 20°37 | 16°41 | 6°33 | 0°36 | 21°56 | 17°11 | 9°39 | S 30 |
| M31 | 16 32 45 | 1°43'24 | 5°23 | 7°46 | 15° 0 | 21°15 | 20°10 | 20°19 | 20°38 | 16°42 | 6°35 | 0°36 | 21°53 | 17°17 | 9°41 | M31 |

Delta T = 21.81 sec

JUNE 1920 mod 16

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| T 1 | 16 36 42 | 2°40'52 | 17°19 | 9°55 | 16°13 | 21°15 | 20°19 | 20°21 | 20°38 | 16°44 | 6°36 | 0°35 | 21°50 | 17°24 | 9°43 | T 1 |
| W 2 | 16 40 38 | 3°38'20 | 6°41 | 12° 3 | 17°27 | 21°15 | 20°28 | 20°24 | 20°39 | 16°45 | 6°37 | 0°33 | 21°47 | 17°31 | 9°45 | W 2 |
| T 3 | 16 44 35 | 4°35'46 | 18°31 | 14° 9 | 18°40 | 21°16 | 20°37 | 20°27 | 20°39 | 16°46 | 6°39 | 0°29 | 21°44 | 17°37 | 9°47 | T 3 |
| F 4 | 16 48 31 | 5°33'11 | 7°51 | 16°14 | 19°54 | 21°18 | 20°47 | 20°29 | 20°40 | 16°48 | 6°40 | 0°25 | 21°41 | 17°44 | 9°49 | F 4 |
| S 5 | 16 52 28 | 6°30'36 | 19°44 | 18°16 | 21° 8 | 21°21 | 20°56 | 20°32 | 20°40 | 16°49 | 6°41 | 0°20 | 21°37 | 17°51 | 9°51 | S 5 |
| S 6 | 16 56 24 | 7°28'00 | 9°11 | 20°17 | 22°21 | 21°25 | 21° 5 | 20°35 | 20°40 | 16°51 | 6°43 | 0°15 | 21°34 | 17°58 | 9°53 | S 6 |
| M 7 | 17 0 21 | 8°25'23 | 21°16 | 22°15 | 1° 5 | 21°29 | 21°15 | 20°38 | 20°40 | 16°52 | 6°44 | 0°11 | 21°31 | 18° 4 | 9°55 | M 7 |
| T 8 | 17 4 18 | 9°22'45 | 11° 1 | 1°41 | 2°18 | 21°34 | 21°24 | 20°41 | 20°40 | 16°54 | 6°46 | 0° 8 | 21°28 | 18°11 | 9°56 | T 8 |
| W 9 | 17 8 14 | 10°20'07 | 1° 0 | 3°35 | 3°32 | 21°39 | 21°34 | 20°45 | 20°40 | 16°55 | 6°47 | 0° 6 | 21°25 | 18°18 | 9°58 | W 9 |
| T 10 | 17 12 11 | 11°17'28 | 13°48 | 5°27 | 4°46 | 21°46 | 21°44 | 20°48 | 20°40 | 16°57 | 6°49 | 0° 6 | 21°22 | 18°24 | 10° 0 | T 10 |
| F 11 | 17 16 7 | 12°14'49 | 4°27 | 7°16 | 5°59 | 21°53 | 21°54 | 20°51 | 20°40 | 16°58 | 6°50 | 0° 7 | 21°18 | 18°31 | 10° 1 | F 11 |
| S 12 | 17 20 4 | 13°12'09 | 18° 1 | 9° 2 | 7°13 | 22° 1 | 22° 4 | 20°55 | 20°40 | 17° 0 | 6°51 | 0° 8 | 21°15 | 18°38 | 10° 3 | S 12 |
| S 13 | 17 24 0 | 14° 9'29 | 9°31 | 10°46 | 8°26 | 22° 9 | 22°14 | 20°59 | 20°40 | 17° 1 | 6°53 | 0° 9 | 21°12 | 18°44 | 10° 5 | S 13 |
| M14 | 17 27 57 | 15° 6'49 | 1°27 | 12°28 | 9°40 | 22°19 | 22°24 | 21° 2 | 20°40 | 17° 3 | 6°54 | 0°10 | 21° 9 | 18°51 | 10° 6 | M14 |
| T 15 | 17 31 53 | 16° 4'08 | 16°17 | 14° 7 | 10°54 | 22°28 | 0° 4 | 21° 6 | 20°40 | 17° 5 | 6°56 | 0° 9 | 21° 6 | 18°58 | 10° 8 | T 15 |
| W16 | 17 35 50 | 17° 1'27 | 8°53 | 15°44 | 12° 7 | 0° 9 | 0°15 | 21°10 | 20°40 | 17° 6 | 6°57 | 0° 6 | 21° 2 | 19° 4 | 10° 9 | W16 |
| T 17 | 17 39 47 | 17°58'45 | 1°38 | 17°18 | 13°21 | 0°20 | 0°25 | 21°14 | 20°39 | 17° 8 | 6°59 | 0° 2 | 20°59 | 19°11 | 10°10 | T 17 |
| F 18 | 17 43 43 | 18°56'03 | 16°50 | 18°49 | 14°35 | 0°32 | 0°35 | 21°18 | 20°39 | 17°10 | 7° 0 | 22°26 | 20°56 | 19°18 | 10°12 | F 18 |
| S 19 | 17 47 40 | 19°53'20 | 9°21 | 20°18 | 15°48 | 0°45 | 0°46 | 21°22 | 20°39 | 17°11 | 7° 2 | 22°20 | 20°53 | 19°24 | 10°13 | S 19 |
| S 20 | 17 51 36 | 20°50'36 | 1°31 | 21°44 | 17° 2 | 0°58 | 0°57 | 21°26 | 20°38 | 17°13 | 7° 3 | 22°14 | 20°50 | 19°31 | 10°14 | S 20 |
| M21 | 17 55 33 | 21°47'52 | 15°44 | 0°38 | 18°16 | 1°11 | 1° 7 | 21°31 | 20°38 | 17°15 | 7° 5 | 22°10 | 20°47 | 19°38 | 10°15 | M21 |
| T 22 | 17 59 29 | 0°15'07 | 6°59 | 1°59 | 19°29 | 1°26 | 1°18 | 21°35 | 20°37 | 17°17 | 7° 6 | 22° 7 | 20°43 | 19°44 | 10°17 | T 22 |
| W23 | 18 3 26 | 1°12'21 | 20°17 | 3°17 | 20°43 | 1°40 | 1°29 | 21°39 | 20°37 | 17°19 | 7° 8 | 22° 6 | 20°40 | 19°51 | 10°18 | W23 |
| T 24 | 18 7 22 | 2° 9'35 | 10°39 | 4°32 | 21°57 | 1°56 | 1°40 | 21°44 | 20°36 | 17°20 | 7° 9 | 22° 6 | 20°37 | 19°58 | 10°19 | T 24 |
| F 25 | 18 11 19 | 3° 6'48 | 0°41 | 5°45 | 0°40 | 2°12 | 1°51 | 21°48 | 20°35 | 17°22 | 7°10 | 22° 7 | 20°34 | 20° 4 | 10°20 | F 25 |
| S 26 | 18 15 16 | 4° 4'00 | 12°55 | 6°55 | 1°54 | 2°28 | 2° 2 | 21°53 | 20°34 | 17°24 | 7°12 | 22° 8 | 20°31 | 20°11 | 10°21 | S 26 |
| S 27 | 18 19 12 | 5° 1'12 | 2°28 | 8° 2 | 3° 8 | 2°46 | 2°13 | 21°58 | 20°34 | 17°26 | 7°13 | 22° 8 | 20°28 | 20°18 | 10°22 | S 27 |
| M28 | 18 23 9 | 5°58'24 | 14°23 | 9° 5 | 4°21 | 3° 3 | 2°25 | 22° 3 | 20°33 | 17°28 | 7°15 | 22° 7 | 20°24 | 20°25 | 10°22 | M28 |
| T 29 | 18 27 5 | 6°55'35 | 3°44 | 10° 6 | 5°35 | 3°21 | 2°36 | 22° 8 | 20°32 | 17°30 | 7°16 | 22° 4 | 20°21 | 20°31 | 10°23 | T 29 |
| W30 | 18 31 2 | 7°52'46 | 15°33 | 11° 4 | 6°49 | 3°40 | 2°47 | 22°13 | 20°31 | 17°32 | 7°18 | 21°58 | 20°18 | 20°38 | 10°24 | W30 |

Delta T = 21.86 sec

ASTRODIENST EPHEMERIS for the year 1920

geocentric

JULY 1920 mod 16

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|------|
| T 1 | 18 34 58 | 8°49'57 | 4°53 | 11°58 | 8° 2 | 3°59 | 2°59 | 22°18 | 20°30 | 17°34 | 7°19 | 21°50 | 20°15 | 20°45 | 10°25 | T 1 |
| F 2 | 18 38 55 | 9°47'08 | 16°47 | 12°49 | 9°16 | 4°19 | 3°10 | 22°23 | 20°29 | 17°36 | 7°21 | 21°41 | 20°12 | 20°51 | 10°25 | F 2 |
| S 3 | 18 42 51 | 10°44'19 | 6°15 | 13°36 | 10°30 | 4°39 | 3°22 | 22°28 | 20°28 | 17°38 | 7°22 | 21°30 | 20° 8 | 20°58 | 10°26 | S 3 |
| S 4 | 18 46 48 | 11°41'30 | 18°19 | 14°20 | 11°44 | 4°59 | 3°34 | 0° 3 | 20°27 | 17°40 | 7°24 | 21°20 | 20° 5 | 21° 5 | 10°26 | S 4 |
| M 5 | 18 50 45 | 12°38'41 | 8° 1 | 14°59 | 12°57 | 5°20 | 3°45 | 0° 8 | 20°26 | 17°42 | 7°25 | 21°11 | 20° 2 | 21°11 | 10°27 | M 5 |
| T 6 | 18 54 41 | 13°35'52 | 20°22 | 15°35 | 14°11 | 5°42 | 3°57 | 0°14 | 20°25 | 17°44 | 7°27 | 21° 3 | 19°59 | 21°18 | 10°27 | T 6 |
| W 7 | 18 58 38 | 14°33'03 | 10°26 | 16° 7 | 15°25 | 6° 4 | 4° 9 | 0°19 | 20°24 | 17°46 | 7°28 | 20°57 | 19°56 | 21°25 | 10°28 | W 7 |
| T 8 | 19 2 34 | 15°30'15 | 0°44 | 16°35 | 16°39 | 6°26 | 4°21 | 0°25 | 20°22 | 17°48 | 7°30 | 20°54 | 19°53 | 21°31 | 10°28 | T 8 |
| F 9 | 19 6 31 | 16°27'27 | 13°50 | 16°59 | 17°53 | 6°49 | 4°33 | 0°30 | 20°21 | 17°50 | 7°31 | 20°53 | 19°49 | 21°38 | 10°28 | F 9 |
| S 10 | 19 10 27 | 17°24'39 | 4°47 | 17°18 | 19° 6 | 7°12 | 4°45 | 0°36 | 20°20 | 17°52 | 7°33 | 20°54 | 19°46 | 21°45 | 10°28 | S 10 |
| S 11 | 19 14 24 | 18°21'52 | 18°38 | 17°32 | 20°20 | 7°36 | 4°57 | 0°42 | 20°18 | 17°54 | 7°34 | 20°54 | 19°43 | 21°51 | 10°29 | S 11 |
| M12 | 19 18 20 | 19°19'06 | 10°22 | 17°42 | 21°34 | 8° 0 | 5° 9 | 0°47 | 20°17 | 17°56 | 7°36 | 20°53 | 19°40 | 21°58 | 10°29 | M12 |
| T 13 | 19 22 17 | 20°16'20 | 2°30 | 17°47 | 0°18 | 8°24 | 5°21 | 0°53 | 20°16 | 17°58 | 7°37 | 20°51 | 19°37 | 22° 5 | 10°29 | T 13 |
| W14 | 19 26 14 | 21°13'35 | 17°26 | 17°48 | 1°32 | 8°49 | 5°33 | 0°59 | 20°14 | 18° 0 | 7°39 | 20°46 | 19°34 | 22°12 | 10°29 | W14 |
| T 15 | 19 30 10 | 22°10'50 | 10° 5 | 17°43 | 2°46 | 9°14 | 5°45 | 1° 5 | 20°13 | 18° 2 | 7°40 | 20°39 | 19°30 | 22°18 | 10°29 | T 15 |
| F 16 | 19 34 7 | 0°38'06 | 2°46 | 17°34 | 3°59 | 9°40 | 5°57 | 1°11 | 20°11 | 18° 5 | 7°42 | 20°30 | 19°27 | 22°25 | 10°29 | F 16 |
| S 17 | 19 38 3 | 1°35'22 | 17°48 | 17°20 | 5°13 | 10° 6 | 6°10 | 1°17 | 20° 9 | 18° 7 | 7°43 | 20°20 | 19°24 | 0° 2 | 10°29 | S 17 |
| S 18 | 19 42 0 | 2°32'38 | 10° 3 | 17° 2 | 6°27 | 10°32 | 6°22 | 1°23 | 20° 8 | 18° 9 | 7°44 | 20°10 | 19°21 | 0° 8 | 10°28 | S 18 |
| M19 | 19 45 56 | 3°29'55 | 1°53 | 16°39 | 7°41 | 10°59 | 6°34 | 1°29 | 20° 6 | 18°11 | 7°46 | 20° 1 | 19°18 | 0°15 | 10°28 | M19 |
| T 20 | 19 49 53 | 4°27'12 | 15°44 | 16°11 | 8°55 | 11°26 | 6°47 | 1°36 | 20° 4 | 18°13 | 7°47 | 19°55 | 19°14 | 0°22 | 10°28 | T 20 |
| W21 | 19 53 49 | 5°24'29 | 6°36 | 15°40 | 10° 9 | 11°53 | 6°59 | 1°42 | 20° 3 | 18°15 | 7°49 | 19°51 | 19°11 | 0°28 | 10°27 | W21 |
| T 22 | 19 57 46 | 6°21'46 | 19°31 | 15° 6 | 11°23 | 12°21 | 7°12 | 1°48 | 20° 1 | 18°17 | 7°50 | 19°50 | 19° 8 | 0°35 | 10°27 | T 22 |
| F 23 | 20 1 43 | 7°19'04 | 9°32 | 14°28 | 12°37 | 12°49 | 7°24 | 1°55 | 19°59 | 18°20 | 7°52 | 19°50 | 19° 5 | 0°42 | 10°27 | F 23 |
| S 24 | 20 5 39 | 8°16'22 | 21°46 | 13°48 | 13°51 | 13°17 | 7°37 | 2° 1 | 19°57 | 18°22 | 7°53 | 19°50 | 19° 2 | 0°48 | 10°26 | S 24 |
| S 25 | 20 9 36 | 9°13'40 | 11°16 | 13° 6 | 15° 4 | 13°46 | 7°50 | 2° 7 | 19°55 | 18°24 | 7°54 | 19°49 | 18°59 | 0°55 | 10°26 | S 25 |
| M26 | 20 13 32 | 10°10'59 | 0°39 | 12°23 | 16°18 | 14°15 | 8° 2 | 2°14 | 19°54 | 18°26 | 7°56 | 19°47 | 18°55 | 1° 2 | 10°25 | M26 |
| T 27 | 20 17 29 | 11° 8'19 | 12°28 | 11°39 | 17°32 | 14°44 | 8°15 | 2°20 | 19°52 | 18°28 | 7°57 | 19°42 | 18°52 | 1° 8 | 10°24 | T 27 |
| W28 | 20 21 25 | 12° 5'39 | 1°48 | 10°56 | 18°46 | 15°14 | 8°28 | 2°27 | 19°50 | 18°31 | 7°58 | 19°34 | 18°49 | 1°15 | 10°24 | W28 |
| T 29 | 20 25 22 | 13° 2'59 | 13°41 | 10°14 | 20° 0 | 15°43 | 8°40 | 2°34 | 19°48 | 18°33 | 8° 0 | 19°24 | 18°46 | 1°22 | 10°23 | T 29 |
| F 30 | 20 29 18 | 14° 0'20 | 3°10 | 9°34 | 21°14 | 16°14 | 8°53 | 2°40 | 19°46 | 18°35 | 8° 1 | 19°12 | 18°43 | 1°29 | 10°22 | F 30 |
| S 31 | 20 33 15 | 14°57'43 | 15°17 | 8°57 | 22°28 | 16°44 | 9° 6 | 2°47 | 19°44 | 18°37 | 8° 3 | 18°58 | 18°40 | 1°35 | 10°21 | S 31 |

Delta T = 21.90 sec

AUGUST 1920 mod 16

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| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|------|-------|------|
| S 1 | 20 37 12 | 15°55'05 | 5° 2 | 8°23 | 1°12 | 17°15 | 9°19 | 2°54 | 19°42 | 18°40 | 8° 4 | 18°45 | 18°36 | 1°42 | 10°20 | S 1 |
| M 2 | 20 41 8 | 16°52'29 | 17°27 | 7°53 | 2°26 | 17°46 | 9°31 | 3° 1 | 19°40 | 18°42 | 8° 5 | 18°33 | 18°33 | 1°49 | 10°19 | M 2 |
| T 3 | 20 45 5 | 17°49'54 | 7°31 | 7°28 | 3°40 | 18°17 | 9°44 | 3° 8 | 19°37 | 18°44 | 8° 6 | 18°22 | 18°30 | 1°55 | 10°18 | T 3 |
| W 4 | 20 49 1 | 18°47'20 | 20°16 | 7° 9 | 4°54 | 18°48 | 9°57 | 3°14 | 19°35 | 18°46 | 8° 8 | 18°15 | 18°27 | 2° 2 | 10°17 | W 4 |
| T 5 | 20 52 58 | 19°44'47 | 10°43 | 6°55 | 6° 8 | 19°20 | 10°10 | 3°21 | 19°33 | 18°48 | 8° 9 | 18°10 | 18°24 | 2° 9 | 10°16 | T 5 |
| F 6 | 20 56 54 | 20°42'15 | 1°25 | 6°47 | 7°22 | 19°52 | 10°23 | 3°28 | 19°31 | 18°51 | 8°10 | 18° 8 | 18°20 | 2°15 | 10°15 | F 6 |
| S 7 | 21 0 51 | 21°39'45 | 14°52 | 6°45 | 8°36 | 20°24 | 10°36 | 3°35 | 19°29 | 18°53 | 8°12 | 18° 8 | 18°17 | 2°22 | 10°14 | S 7 |
| S 8 | 21 4 47 | 0° 7'16 | 6° 6 | 6°50 | 9°50 | 20°57 | 10°49 | 3°42 | 19°27 | 18°55 | 8°13 | 18° 7 | 18°14 | 2°29 | 10°13 | S 8 |
| M 9 | 21 8 44 | 1° 4'48 | 20°10 | 7° 2 | 11° 4 | 21°30 | 11° 2 | 3°49 | 19°24 | 18°57 | 8°14 | 18° 7 | 18°11 | 2°35 | 10°11 | M 9 |
| T 10 | 21 12 41 | 2° 2'22 | 12° 2 | 7°21 | 12°18 | 22° 3 | 11°15 | 3°56 | 19°22 | 19° 0 | 8°15 | 18° 4 | 18° 8 | 2°42 | 10°10 | T 10 |
| W11 | 21 16 37 | 2°59'57 | 4°11 | 7°47 | 13°32 | 0° 6 | 11°28 | 4° 3 | 19°20 | 19° 2 | 8°16 | 17°59 | 18° 5 | 2°49 | 10° 9 | W11 |
| T 12 | 21 20 34 | 3°57'34 | 19° 1 | 8°19 | 14°46 | 0°40 | 11°41 | 4°11 | 19°18 | 19° 4 | 8°18 | 17°51 | 18° 1 | 2°56 | 10° 7 | T 12 |
| F 13 | 21 24 30 | 4°55'12 | 11°25 | 8°59 | 16° 0 | 1°13 | 11°54 | 4°18 | 19°15 | 19° 6 | 8°19 | 17°41 | 17°58 | 3° 2 | 10° 6 | F 13 |
| S 14 | 21 28 27 | 5°52'52 | 3°45 | 9°46 | 17°14 | 1°47 | 12° 7 | 4°25 | 19°13 | 19° 8 | 8°20 | 17°30 | 17°55 | 3° 9 | 10° 4 | S 14 |
| S 15 | 21 32 23 | 6°50'32 | 18°21 | 10°39 | 18°28 | 2°21 | 12°20 | 4°32 | 19°11 | 19°11 | 8°21 | 17°19 | 17°52 | 3°16 | 10° 3 | S 15 |
| M16 | 21 36 20 | 7°48'14 | 10° 6 | 11°39 | 19°42 | 2°56 | 12°33 | 4°39 | 19° 8 | 19°13 | 8°22 | 17°10 | 17°49 | 3°22 | 10° 1 | M16 |
| T 17 | 21 40 16 | 8°45'57 | 1°27 | 12°45 | 20°56 | 3°31 | 12°46 | 4°47 | 19° 6 | 19°15 | 8°23 | 17° 3 | 17°46 | 3°29 | 9°59 | T 17 |
| W18 | 21 44 13 | 9°43'41 | 14°50 | 13°57 | 22°10 | 4° 5 | 12°59 | 4°54 | 19° 4 | 19°17 | 8°24 | 16°58 | 17°42 | 3°36 | 9°58 | W18 |
| T 19 | 21 48 10 | 10°41'26 | 5°16 | 15°15 | 0°54 | 4°40 | 13°12 | 5° 1 | 19° 1 | 19°19 | 8°26 | 16°56 | 17°39 | 3°42 | 9°56 | T 19 |
| F 20 | 21 52 6 | 11°39'12 | 17°50 | 16°38 | 2° 9 | 5°16 | 13°25 | 5° 9 | 18°59 | 19°22 | 8°27 | 16°55 | 17°36 | 3°49 | 9°54 | F 20 |
| S 21 | 21 56 3 | 12°37'00 | 7°35 | 18° 6 | 3°23 | 5°51 | 13°39 | 5°16 | 18°57 | 19°24 | 8°28 | 16°56 | 17°33 | 3°56 | 9°52 | S 21 |
| S 22 | 21 59 59 | 13°34'48 | 19°37 | 19°40 | 4°37 | 6°27 | 13°52 | 5°23 | 18°54 | 19°26 | 8°29 | 16°55 | 17°30 | 4° 3 | 9°50 | S 22 |
| M23 | 22 3 56 | 14°32'38 | 9° 0 | 21°17 | 5°51 | 7° 3 | 14° 5 | 5°31 | 18°52 | 19°28 | 8°30 | 16°54 | 17°26 | 4° 9 | 9°49 | M23 |
| T 24 | 22 7 52 | 15°30'29 | 20°50 | 0°29 | 7° 5 | 7°39 | 14°18 | 5°38 | 18°49 | 19°30 | 8°31 | 16°51 | 17°23 | 4°16 | 9°47 | T 24 |
| W25 | 22 11 49 | 16°28'21 | 10°12 | 2°13 | 8°19 | 8°15 | 14°31 | 5°46 | 18°47 | 19°32 | 8°32 | 16°45 | 17°20 | 4°23 | 9°45 | W25 |
| T 26 | 22 15 45 | 17°26'15 | 22° 9 | 4° 1 | 9°33 | 8°52 | 14°44 | 5°53 | 18°45 | 19°34 | 8°33 | 16°36 | 17°17 | 4°29 | 9°43 | T 26 |
| F 27 | 22 19 42 | 18°24'10 | 11°45 | 5°52 | 10°47 | 9°28 | 14°57 | 6° 1 | 18°42 | 19°36 | 8°34 | 16°26 | 17°14 | 4°36 | 9°41 | F 27 |
| S 28 | 22 23 39 | 19°22'06 | 1°32 | 7°44 | 12° 1 | 10° 5 | 15°10 | 6° 8 | 18°40 | 19°39 | 8°35 | 16°15 | 17°11 | 4°43 | 9°39 | S 28 |
| S 29 | 22 27 35 | 20°20'04 | 14° 0 | 9°38 | 13°15 | 10°42 | 15°23 | 6°16 | 18°37 | 19°41 | 8°35 | 16° 3 | 17° 7 | 4°49 | 9°36 | S 29 |
| M30 | 22 31 32 | 21°18'04 | 4°10 | 11°34 | 14°29 | 11°19 | 15°36 | 6°23 | 18°35 | 19°43 | 8°36 | 15°53 | 17° 4 | 4°56 | 9°34 | M30 |
| T 31 | 22 35 28 | 22°16'05 | 17° 3 | 13°30 | 15°43 | 11°56 | 15°49 | 6°31 | 18°33 | 19°45 | 8°37 | 15°44 | 17° 1 | 5° 3 | 9°32 | T 31 |

Delta T = 21.95 sec

ASTRODIENST EPHEMERIS for the year 1920
geocentric

SEPTEMBER 1920 mod 16

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|------|------|
| W 1 | 22 39 25 | 0°44'07 | 7°37 | 15°27 | 16°57 | 12°34 | 16° 2 | 6°38 | 18°30 | 19°47 | 8°38 | 15°38 | 16°58 | 5° 9 | 9°30 | W 1 |
| T 2 | 22 43 21 | 1°42'12 | 20°53 | 17°24 | 18°11 | 13°12 | 16°15 | 6°46 | 18°28 | 19°49 | 8°39 | 15°34 | 16°55 | 5°16 | 9°28 | T 2 |
| F 3 | 22 47 18 | 2°40'18 | 11°49 | 19°21 | 19°25 | 13°49 | 16°28 | 6°53 | 18°26 | 19°51 | 8°40 | 15°33 | 16°51 | 5°23 | 9°25 | F 3 |
| S 4 | 22 51 14 | 3°38'27 | 2°57 | 21°18 | 20°39 | 14°27 | 16°41 | 7° 1 | 18°23 | 19°53 | 8°41 | 15°33 | 16°48 | 5°30 | 9°23 | S 4 |
| S 5 | 22 55 11 | 4°36'37 | 16°46 | 0°45 | 21°53 | 15° 6 | 16°54 | 7° 8 | 18°21 | 19°55 | 8°41 | 15°34 | 16°45 | 5°36 | 9°21 | S 5 |
| M 6 | 22 59 7 | 5°34'50 | 8°16 | 2°41 | 0°37 | 15°44 | 17° 7 | 7°16 | 18°18 | 19°57 | 8°42 | 15°34 | 16°42 | 5°43 | 9°19 | M 6 |
| T 7 | 23 3 4 | 6°33'05 | 22°28 | 4°37 | 1°51 | 16°22 | 17°20 | 7°23 | 18°16 | 19°59 | 8°43 | 15°33 | 16°39 | 5°50 | 9°16 | T 7 |
| W 8 | 23 7 1 | 7°31'21 | 14°19 | 6°31 | 3° 5 | 17° 1 | 17°33 | 7°31 | 18°14 | 20° 1 | 8°44 | 15°30 | 16°36 | 5°56 | 9°14 | W 8 |
| T 9 | 23 10 57 | 8°29'40 | 6°16 | 8°25 | 4°20 | 17°40 | 17°46 | 7°38 | 18°11 | 20° 3 | 8°44 | 15°25 | 16°32 | 6° 3 | 9°11 | T 9 |
| F 10 | 23 14 54 | 9°28'01 | 20°45 | 10°18 | 5°34 | 18°19 | 17°59 | 7°46 | 18° 9 | 20° 5 | 8°45 | 15°18 | 16°29 | 6°10 | 9° 9 | F 10 |
| S 11 | 23 18 50 | 10°26'24 | 12°40 | 12°10 | 6°48 | 18°58 | 18°12 | 7°53 | 18° 7 | 20° 7 | 8°46 | 15°10 | 16°26 | 6°16 | 9° 6 | S 11 |
| S 12 | 23 22 47 | 11°24'48 | 4°25 | 14° 1 | 8° 2 | 19°37 | 18°25 | 8° 1 | 18° 5 | 20° 8 | 8°46 | 15° 2 | 16°23 | 6°23 | 9° 4 | S 12 |
| M13 | 23 26 43 | 12°23'15 | 18°23 | 15°51 | 9°16 | 20°17 | 18°37 | 8° 8 | 18° 2 | 20°10 | 8°47 | 14°55 | 16°20 | 6°30 | 9° 1 | M13 |
| T 14 | 23 30 40 | 13°21'43 | 9°32 | 17°40 | 10°30 | 20°56 | 18°50 | 8°16 | 18° 0 | 20°12 | 8°47 | 14°50 | 16°17 | 6°37 | 8°59 | T 14 |
| W15 | 23 34 36 | 14°20'13 | 0°18 | 19°27 | 11°44 | 21°36 | 19° 3 | 8°23 | 17°58 | 20°14 | 8°48 | 14°47 | 16°13 | 6°43 | 8°56 | W15 |
| T 16 | 23 38 33 | 15°18'45 | 13°12 | 21°14 | 12°58 | 22°16 | 19°16 | 8°31 | 17°56 | 20°16 | 8°49 | 14°46 | 16°10 | 6°50 | 8°54 | T 16 |
| F 17 | 23 42 30 | 16°17'19 | 3°15 | 0°30 | 14°12 | 0°26 | 19°28 | 8°38 | 17°53 | 20°18 | 8°49 | 14°46 | 16° 7 | 6°57 | 8°51 | F 17 |
| S 18 | 23 46 26 | 17°15'54 | 15°32 | 2°14 | 15°26 | 1° 6 | 19°41 | 8°46 | 17°51 | 20°19 | 8°50 | 14°47 | 16° 4 | 7° 3 | 8°48 | S 18 |
| S 19 | 23 50 23 | 18°14'31 | 5° 5 | 3°58 | 16°40 | 1°46 | 19°54 | 8°53 | 17°49 | 20°21 | 8°50 | 14°49 | 16° 1 | 7°10 | 8°46 | S 19 |
| M20 | 23 54 19 | 19°13'10 | 16°59 | 5°40 | 17°54 | 2°27 | 20° 6 | 9° 1 | 17°47 | 20°23 | 8°51 | 14°50 | 15°57 | 7°17 | 8°43 | M20 |
| T 21 | 23 58 16 | 20°11'50 | 6°21 | 7°22 | 19° 8 | 3° 7 | 20°19 | 9° 8 | 17°45 | 20°25 | 8°51 | 14°49 | 15°54 | 7°24 | 8°41 | T 21 |
| W22 | 0 2 12 | 21°10'32 | 18°14 | 9° 2 | 20°22 | 3°48 | 20°32 | 9°16 | 17°43 | 20°26 | 8°51 | 14°47 | 15°51 | 7°30 | 8°38 | W22 |
| T 23 | 0 6 9 | 22° 9'16 | 7°44 | 10°42 | 21°36 | 4°29 | 20°44 | 9°23 | 17°41 | 20°28 | 8°52 | 14°44 | 15°48 | 7°37 | 8°35 | T 23 |
| F 24 | 0 10 5 | 0°38'02 | 19°54 | 12°20 | 0°20 | 5°10 | 20°56 | 9°31 | 17°39 | 20°29 | 8°52 | 14°39 | 15°45 | 7°44 | 8°33 | F 24 |
| S 25 | 0 14 2 | 1°36'49 | 9°47 | 13°58 | 1°34 | 5°51 | 21° 9 | 9°38 | 17°37 | 20°31 | 8°53 | 14°33 | 15°42 | 7°50 | 8°30 | S 25 |
| S 26 | 0 17 59 | 2°35'38 | 22°26 | 15°35 | 2°47 | 6°32 | 21°21 | 9°45 | 17°35 | 20°33 | 8°53 | 14°27 | 15°38 | 7°57 | 8°27 | S 26 |
| M27 | 0 21 55 | 3°34'29 | 12°52 | 17°10 | 4° 1 | 7°13 | 21°34 | 9°53 | 17°33 | 20°34 | 8°53 | 14°21 | 15°35 | 8° 4 | 8°24 | M27 |
| T 28 | 0 25 52 | 4°33'22 | 3°34 | 18°45 | 5°15 | 7°55 | 21°46 | 10° 0 | 17°31 | 20°36 | 8°53 | 14°17 | 15°32 | 8°10 | 8°22 | T 28 |
| W29 | 0 29 48 | 5°32'17 | 17° 1 | 20°19 | 6°29 | 8°36 | 21°58 | 10° 7 | 17°29 | 20°37 | 8°54 | 14°14 | 15°29 | 8°17 | 8°19 | W29 |
| T 30 | 0 33 45 | 6°31'14 | 8°11 | 21°52 | 7°43 | 9°18 | 22°10 | 10°15 | 17°27 | 20°39 | 8°54 | 14°12 | 15°26 | 8°24 | 8°16 | T 30 |

Delta T = 22.00 sec

OCTOBER 1920 mod 16

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

Delta T = 22.05 sec

ASTRODIENST EPHEMERIS for the year 1920

geocentric

NOVEMBER 1920 mod 16

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|------|
| M 1 | 2 39 54 | 15°46'12 | 7°30 | 15°54 | 2° 3 | 9°53 | 5°37 | 13°49 | 16°48 | 21°12 | 8°49 | 14° 2 | 13°44 | 11°58 | 6°54 | M 1 |
| T 2 | 2 43 51 | 16°46'16 | 21°54 | 16°23 | 3°16 | 10°38 | 5°46 | 13°55 | 16°47 | 21°12 | 8°49 | 14° 2 | 13°41 | 12° 5 | 6°52 | T 2 |
| W 3 | 2 47 48 | 17°46'22 | 13°38 | 16°46 | 4°30 | 11°23 | 5°56 | 14° 1 | 16°47 | 21°13 | 8°48 | 14° 2 | 13°38 | 12°12 | 6°50 | W 3 |
| T 4 | 2 51 44 | 18°46'30 | 5°10 | 17° 3 | 5°43 | 12° 8 | 6° 6 | 14° 7 | 16°46 | 21°13 | 8°48 | 14° 2 | 13°34 | 12°19 | 6°48 | T 4 |
| F 5 | 2 55 41 | 19°46'40 | 18°58 | 17°11 | 6°57 | 12°52 | 6°15 | 14°12 | 16°46 | 21°13 | 8°47 | 14° 2 | 13°31 | 12°25 | 6°46 | F 5 |
| S 6 | 2 59 37 | 20°46'52 | 10° 3 | 17°11 | 8°10 | 13°37 | 6°24 | 14°18 | 16°46 | 21°14 | 8°47 | 14° 3 | 13°28 | 12°32 | 6°44 | S 6 |
| S 7 | 3 3 34 | 21°47'06 | 0°54 | 17° 3 | 9°24 | 14°22 | 6°34 | 14°23 | 16°45 | 21°14 | 8°46 | 14° 3 | 13°25 | 12°39 | 6°42 | S 7 |
| M 8 | 3 7 30 | 0°17'23 | 14° 1 | 16°45 | 10°37 | 15° 7 | 6°43 | 14°29 | 16°45 | 21°14 | 8°45 | 14° 4 | 13°22 | 12°45 | 6°40 | M 8 |
| T 9 | 3 11 27 | 1°17'41 | 4°24 | 16°17 | 11°50 | 15°53 | 6°52 | 14°34 | 16°45 | 21°15 | 8°45 | 14° 5 | 13°19 | 12°52 | 6°38 | T 9 |
| W10 | 3 15 23 | 2°18'01 | 17° 5 | 15°39 | 13° 4 | 16°38 | 7° 1 | 14°40 | 16°45 | 21°15 | 8°44 | 14° 5 | 13°15 | 12°59 | 6°36 | W10 |
| T 11 | 3 19 20 | 3°18'23 | 7° 4 | 14°51 | 14°17 | 17°23 | 7°10 | 14°45 | 16°45 | 21°15 | 8°43 | 14° 4 | 13°12 | 13° 6 | 6°34 | T 11 |
| F 12 | 3 23 17 | 4°18'46 | 19°22 | 13°54 | 15°30 | 18° 8 | 7°18 | 14°50 | 16°45 | 21°15 | 8°42 | 14° 3 | 13° 9 | 13°12 | 6°32 | F 12 |
| S 13 | 3 27 13 | 5°19'11 | 9° 0 | 12°48 | 16°44 | 18°54 | 7°27 | 14°55 | 16°45 | 21°15 | 8°42 | 14° 2 | 13° 6 | 13°19 | 6°30 | S 13 |
| S 14 | 3 31 10 | 6°19'38 | 20°59 | 11°35 | 17°57 | 19°39 | 7°35 | 15° 1 | 16°45 | 21°16 | 8°41 | 13°59 | 13° 3 | 13°26 | 6°29 | S 14 |
| M15 | 3 35 6 | 7°20'06 | 10°23 | 10°17 | 19°10 | 20°25 | 7°44 | 15° 6 | 16°45 | 21°16 | 8°40 | 13°57 | 12°59 | 13°32 | 6°27 | M15 |
| T 16 | 3 39 3 | 8°20'36 | 22°14 | 8°57 | 20°24 | 21°10 | 7°52 | 15°10 | 16°46 | 21°16 | 8°39 | 13°54 | 12°56 | 13°39 | 6°25 | T 16 |
| W17 | 3 42 59 | 9°21'06 | 11°35 | 7°36 | 21°37 | 21°56 | 8° 0 | 15°15 | 16°46 | 21°16 | 8°39 | 13°52 | 12°53 | 13°46 | 6°24 | W17 |
| T 18 | 3 46 56 | 10°21'38 | 1° 2 | 6°18 | 0°20 | 0°11 | 8° 8 | 15°20 | 16°46 | 21°16 | 8°38 | 13°51 | 12°50 | 13°53 | 6°22 | T 18 |
| F 19 | 3 50 52 | 11°22'12 | 13° 8 | 5° 5 | 1°33 | 0°57 | 8°16 | 15°25 | 16°46 | 21°16 | 8°37 | 13°51 | 12°47 | 13°59 | 6°21 | F 19 |
| S 20 | 3 54 49 | 12°22'46 | 2°59 | 3°59 | 2°46 | 1°43 | 8°23 | 15°29 | 16°47 | 21°15 | 8°36 | 13°51 | 12°44 | 14° 6 | 6°19 | S 20 |
| S 21 | 3 58 46 | 13°23'22 | 15°38 | 3° 2 | 3°59 | 2°28 | 8°31 | 15°34 | 16°47 | 21°15 | 8°35 | 13°53 | 12°40 | 14°13 | 6°18 | S 21 |
| M22 | 4 2 42 | 14°23'59 | 6° 9 | 2°16 | 5°12 | 3°14 | 8°38 | 15°38 | 16°48 | 21°15 | 8°34 | 13°54 | 12°37 | 14°19 | 6°16 | M22 |
| T 23 | 4 6 39 | 15°24'37 | 19°36 | 1°41 | 6°25 | 4° 0 | 8°46 | 15°43 | 16°48 | 21°15 | 8°33 | 13°56 | 12°34 | 14°26 | 6°15 | T 23 |
| W24 | 4 10 35 | 16°25'16 | 11° 0 | 1°18 | 7°38 | 4°46 | 8°53 | 15°47 | 16°49 | 21°15 | 8°32 | 13°57 | 12°31 | 14°33 | 6°14 | W24 |
| T 25 | 4 14 32 | 17°25'57 | 2°48 | 1° 7 | 8°51 | 5°32 | 9° 0 | 15°51 | 16°50 | 21°14 | 8°31 | 13°56 | 12°28 | 14°40 | 6°12 | T 25 |
| F 26 | 4 18 28 | 18°26'39 | 17°28 | 1° 6 | 10° 4 | 6°18 | 9° 7 | 15°55 | 16°51 | 21°14 | 8°30 | 13°54 | 12°25 | 14°46 | 6°11 | F 26 |
| S 27 | 4 22 25 | 19°27'22 | 9°52 | 1°16 | 11°17 | 7° 4 | 9°13 | 15°59 | 16°51 | 21°14 | 8°30 | 13°51 | 12°21 | 14°53 | 6°10 | S 27 |
| S 28 | 4 26 21 | 20°28'07 | 2°23 | 1°36 | 12°30 | 7°50 | 9°20 | 16° 3 | 16°52 | 21°13 | 8°29 | 13°47 | 12°18 | 15° 0 | 6° 9 | S 28 |
| M29 | 4 30 18 | 21°28'53 | 17°20 | 2° 5 | 13°43 | 8°36 | 9°26 | 16° 7 | 16°53 | 21°13 | 8°28 | 13°43 | 12°15 | 15° 6 | 6° 8 | M29 |
| T 30 | 4 34 15 | 22°29'40 | 9°37 | 2°41 | 14°55 | 9°22 | 9°32 | 16°11 | 16°54 | 21°13 | 8°27 | 13°39 | 12°12 | 15°13 | 6° 7 | T 30 |

Delta T = 22.09 sec

DECEMBER 1920 mod 16

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| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|------|
| W 1 | 4 38 11 | 1° 0'29 | 1°36 | 3°25 | 16° 8 | 10° 8 | 9°39 | 16°14 | 16°55 | 21°12 | 8°25 | 13°36 | 12° 9 | 15°20 | 6° 6 | W 1 |
| T 2 | 4 42 8 | 2° 1'20 | 15°44 | 4°15 | 17°21 | 10°54 | 9°45 | 16°18 | 16°56 | 21°12 | 8°24 | 13°34 | 12° 5 | 15°27 | 6° 5 | T 2 |
| F 3 | 4 46 4 | 3° 2'11 | 6°59 | 5°11 | 18°33 | 11°41 | 9°50 | 16°21 | 16°57 | 21°11 | 8°23 | 13°34 | 12° 2 | 15°33 | 6° 4 | F 3 |
| S 4 | 4 50 1 | 4° 3'04 | 20°24 | 6°11 | 19°46 | 12°27 | 9°56 | 16°25 | 16°58 | 21°10 | 8°22 | 13°34 | 11°59 | 15°40 | 6° 3 | S 4 |
| S 5 | 4 53 57 | 5° 3'59 | 10°58 | 7°16 | 20°58 | 13°13 | 10° 2 | 16°28 | 16°59 | 21°10 | 8°21 | 13°36 | 11°56 | 15°47 | 6° 3 | S 5 |
| M 6 | 4 57 54 | 6° 4'54 | 1°16 | 8°24 | 22°11 | 13°59 | 10° 7 | 16°31 | 17° 1 | 21° 9 | 8°20 | 13°38 | 11°53 | 15°53 | 6° 2 | M 6 |
| T 7 | 5 1 50 | 7° 5'51 | 13°50 | 9°35 | 0°53 | 14°46 | 10°12 | 16°34 | 17° 2 | 21° 9 | 8°19 | 13°38 | 11°50 | 16° 0 | 6° 1 | T 7 |
| W 8 | 5 5 47 | 8° 6'50 | 3°43 | 10°49 | 2° 6 | 15°32 | 10°17 | 16°37 | 17° 3 | 21° 8 | 8°18 | 13°37 | 11°46 | 16° 7 | 6° 0 | W 8 |
| T 9 | 5 9 44 | 9° 7'49 | 15°56 | 12° 6 | 3°18 | 16°18 | 10°22 | 16°40 | 17° 5 | 21° 7 | 8°17 | 13°34 | 11°43 | 16°14 | 6° 0 | T 9 |
| F 10 | 5 13 40 | 10° 8'49 | 5°32 | 13°24 | 4°30 | 17° 5 | 10°27 | 16°43 | 17° 6 | 21° 6 | 8°16 | 13°29 | 11°40 | 16°20 | 6° 0 | F 10 |
| S 11 | 5 17 37 | 11° 9'50 | 17°32 | 14°44 | 5°43 | 17°51 | 10°31 | 16°46 | 17° 7 | 21° 6 | 8°15 | 13°22 | 11°37 | 16°27 | 6° 0 | S 11 |
| S 12 | 5 21 33 | 12°10'52 | 6°57 | 16° 6 | 6°55 | 18°38 | 10°35 | 16°48 | 17° 9 | 21° 5 | 8°13 | 13°14 | 11°34 | 16°34 | 5°59 | S 12 |
| M13 | 5 25 30 | 13°11'55 | 18°49 | 17°29 | 8° 7 | 19°24 | 10°40 | 16°51 | 17°10 | 21° 4 | 8°12 | 13° 5 | 11°31 | 16°40 | 5°59 | M13 |
| T 14 | 5 29 26 | 14°12'58 | 8°10 | 18°53 | 9°19 | 20°11 | 10°43 | 16°53 | 17°12 | 21° 3 | 8°11 | 13°56 | 11°27 | 16°47 | 5°59 | T 14 |
| W15 | 5 33 23 | 15°14'02 | 20° 2 | 20°19 | 10°31 | 20°57 | 10°47 | 16°55 | 17°14 | 21° 2 | 8°10 | 12°48 | 11°24 | 16°54 | 5°58 | W15 |
| T 16 | 5 37 19 | 16°15'06 | 9°28 | 21°45 | 11°43 | 21°44 | 10°51 | 16°57 | 17°15 | 21° 1 | 8° 9 | 12°41 | 11°21 | 17° 1 | 5°58 | T 16 |
| F 17 | 5 41 16 | 17°16'11 | 21°32 | 0°42 | 12°54 | 0° 0 | 10°54 | 16°59 | 17°17 | 21° 0 | 8° 7 | 12°37 | 11°18 | 17° 7 | 5°58 | F 17 |
| S 18 | 5 45 13 | 18°17'16 | 11°17 | 2° 9 | 14° 6 | 0°47 | 10°58 | 17° 1 | 17°19 | 20°59 | 8° 6 | 12°35 | 11°15 | 17°14 | 5°58 | S 18 |
| S 19 | 5 49 9 | 19°18'21 | 1°19 | 3°37 | 15°18 | 1°33 | 11° 1 | 17° 3 | 17°21 | 20°58 | 8° 5 | 12°35 | 11°11 | 17°21 | 5°58 | S 19 |
| M20 | 5 53 6 | 20°19'27 | 14°13 | 5° 6 | 16°29 | 2°20 | 11° 4 | 17° 5 | 17°23 | 20°57 | 8° 4 | 12°36 | 11° 8 | 17°27 | 5°58 | M20 |
| T 21 | 5 57 2 | 21°20'33 | 5° 2 | 6°35 | 17°41 | 3° 6 | 11° 6 | 17° 7 | 17°25 | 20°56 | 8° 3 | 12°37 | 11° 5 | 17°34 | 5°59 | T 21 |
| W22 | 6 0 59 | 22°21'39 | 18°49 | 8° 4 | 18°52 | 3°53 | 11° 9 | 17° 8 | 17°27 | 20°55 | 8° 1 | 12°37 | 11° 2 | 17°41 | 5°59 | W22 |
| T 23 | 6 4 55 | 0°52'45 | 10°36 | 9°34 | 20° 4 | 4°39 | 11°11 | 17°10 | 17°29 | 20°54 | 8° 0 | 12°35 | 10°59 | 17°48 | 5°59 | T 23 |
| F 24 | 6 8 52 | 1°53'51 | 2°50 | 11° 5 | 21°15 | 5°26 | 11°13 | 17°11 | 17°31 | 20°53 | 7°59 | 12°31 | 10°56 | 17°54 | 5°59 | F 24 |
| S 25 | 6 12 48 | 2°54'58 | 17°55 | 12°35 | 22°26 | 6°13 | 11°15 | 17°12 | 17°33 | 20°51 | 7°58 | 12°24 | 10°52 | 18° 1 | 6° 0 | S 25 |
| S 26 | 6 16 45 | 3°56'05 | 10°43 | 14° 6 | 1° 7 | 6°59 | 11°17 | 17°13 | 17°35 | 20°50 | 7°57 | 12°15 | 10°49 | 18° 8 | 6° 0 | S 26 |
| M27 | 6 20 42 | 4°57'13 | 3°31 | 15°38 | 2°18 | 7°46 | 11°19 | 17°14 | 17°37 | 20°49 | 7°55 | 12° 6 | 10°46 | 18°15 | 6° 1 | M27 |
| T 28 | 6 24 38 | 5°58'21 | 18°40 | 17° 9 | 3°29 | 8°32 | 11°20 | 17°15 | 17°39 | 20°48 | 7°54 | 11°57 | 10°43 | 18°21 | 6° 1 | T 28 |
| W29 | 6 28 35 | 6°59'29 | 10°59 | 18°41 | 4°39 | 9°19 | 11°22 | 17°16 | 17°41 | 20°47 | 7°53 | 11°49 | 10°40 | 18°28 | 6° 2 | W29 |
| T 30 | 6 32 31 | 8° 0'37 | 2°52 | 20°13 | 5°50 | 10° 6 | 11°23 | 17°16 | 17°44 | 20°45 | 7°52 | 11°43 | 10°37 | 18°35 | 6° 2 | T 30 |
| F 31 | 6 36 28 | 9° 1'46 | 16°47 | 21°46 | 7° 0 | 10°52 | 11°23 | 17°17 | 17°46 | 20°44 | 7°50 | 11°40 | 10°33 | 18°41 | 6° 3 | F 31 |

Delta T = 22.14 sec