

EPHEMERIS OF THE SUN

Pages 4-39 contain for every even hour of Greenwich civil time the *Equation of Time*, the *Sun's Declination*, and its *Greenwich Hour Angle*. Interpolation of the equation of time and the declination may be made by inspection and is facilitated by the *H. D. (Hourly Difference)* which is given at the end of each day. The Sun's Greenwich hour angle may be found for any Greenwich civil time by means of the interpolation table on every third page. These tables have been computed using a mean value of the motion ($30^{\circ} 0' .0$ for two hours G. C. T.), which may in extreme cases produce an error of $0' .7$. To avoid this error the minutes column of G. H. A. should be interpolated by inspection; i. e., multiply the difference ($0' .0$ to $0' .7$) by the fractional part of two hours required and apply the product with the proper sign. At the end of the month is given the Sun's *Semidiameter* for every tenth day. The equation of time for 0^{h} Greenwich civil time is the hour angle at Greenwich of the true Sun at that instant minus 12 hours. When interpolated to any given Greenwich civil time, it is the correction to be applied to mean time in order to obtain apparent time.

The Sun's declination given in the Almanac and the right ascension used in computing the equation of time and the Greenwich hour angle are referred to the true equator and equinox, and are corrected for aberration. They are therefore apparent positions.

It is to be noted that here, as elsewhere throughout the volume, the positive sign used with declinations indicates north and the negative sign south.

EXAMPLES

As examples of the use of pages 2-39:—

- Let the sidereal time be required for December 23, 1947, $8^{\text{h}} 3^{\text{m}} 30^{\text{s}}$, A. M., at a place in longitude $85^{\circ} 15'$ or $5^{\text{h}} 41^{\text{m}}$ west from Greenwich.

| | h m s |
|---|----------------|
| Greenwich sidereal time of 0^{h} Greenwich civil time, Dec. 23, page 3 . | 6 2 46.4 |
| Reduction for $5^{\text{h}} 41^{\text{m}}$, bottom of page 2 | <u>+0 56.1</u> |
| Local sidereal time of 0^{h} local civil time, Dec. 23 | 6 3 42.5 |
| Add the local civil time | 8 3 30.0 |
| Reduction for $8^{\text{h}} 3^{\text{m}} 30^{\text{s}} .0$, Table VI | <u>+1 19.4</u> |
| The required sidereal time | 14 8 31.9 |

- On December 23, 1947, A. M., at a place in longitude $85^{\circ} 15'$ or $5^{\text{h}} 41^{\text{m}}$ west from Greenwich, suppose the sidereal time to be $14^{\text{h}} 8^{\text{m}} 31^{\text{s}} .9$ and that the corresponding civil time is required.

| | h m s |
|---|------------------|
| Greenwich sidereal time of 0^{h} Greenwich civil time, Dec. 23, page 3 . | 6 2 46.4 |
| Reduction for $5^{\text{h}} 41^{\text{m}}$, bottom of | <u>+0 56.1</u> |
| Local sidereal time of 0^{h} local | 6 3 42.5 |
| The given sidereal time | <u>14 8 31.9</u> |
| Subtracting the first from the second gives the sidereal interval from | |
| 0^{h} civil time | 8 4 49.4 |
| Reduction for $8^{\text{h}} 4^{\text{m}} 49^{\text{s}} .4$, Table V | <u>-1 19.5</u> |
| The required local civil time | 8 3 29.9 |

- Let the Sun's right ascension, declination, and local hour angle be required for December 23, 1947, $8^{\text{h}} 3^{\text{m}} 30^{\text{s}}$, A. M., at a place in longitude $85^{\circ} 15'$ or $5^{\text{h}} 41^{\text{m}}$ west from Greenwich.

| | Dec. 23, | h m s |
|---|----------|--------------------------------------|
| Local civil time | 8 3 30 | |
| Longitude from Greenwich (additive) | 5 41 0 | |
| Greenwich civil time | Dec. 23, | <u>13 44 30 = 13^h .74</u> |

| | Equation of Time | | | Sun's Declination | | |
|--|-------------------------|------|--|-------------------|------|---|
| | m | s | | ° | , | ° |
| Dec. 23, 12 ^h , G. C. T. | +1 | 10.6 | | -23 | 26.7 | |
| Change in 1 ^h .74 | -1 ^h .2×1.74 | | | 0.0 | | |
| | | | | | | |
| | +1 | 8.5 | | -23 | 26.7 | |
| <i>Local Hour Angle</i> ° , | | | | | | |
| G. H. A., Dec. 23, 12 ^h | 0 | 17.7 | | | | |
| Corr. -0' 7× $\frac{1.74}{2}$ | -0.6 | | | | | |
| Corr. for 1 ^h 44 ^m 30 ^s (p. 39) . | 26 | 7.5 | | | | |
| G. H. A. | 26 | 24.6 | | | | |
| Longitude west (subtract) . | 85 | 15.0 | | | | |
| Local H. A. | 301 | 9.6 | | | | |

The sign + must be used with the H. D. when the equation of time or Sun's declination, if itself positive, is increasing, or, if negative, is decreasing numerically; contrariwise, the sign - must be used with the H. D. when the equation of time or Sun's declination, if positive, is decreasing, or, if negative, is increasing numerically.

EPHEMERIS OF THE MOON

Pages 40–131 contain for each hour throughout the year the *Moon's Right Ascension* and *Declination*, referred to the true equator and equinox, and also the *Moon's Greenwich Hour Angle*. The hourly differences are tabulated to facilitate the use of the interpolation tables on pages 132–134.

At the foot of pages 40–131 are given the *Moon's Semidiameter* and *Horizontal Parallax* for 0^b Greenwich civil time of each day.

Page 131 contains also the *Phases of the Moon* for the entire year.

Pages 132–134 contain interpolation tables for finding the Moon's right ascension, declination, and Greenwich hour angle for any given Greenwich civil time, using the hourly differences of the quantities at the given time.

Example.—Let the Moon's right ascension, declination, and Greenwich hour angle be required for January 2, 1947, at 20^h 24^m 44^s Greenwich civil time.

| | Right Ascension | Declination | Greenwich Hour Angle |
|--|------------------|---------------|-------------------------|
| Hourly diff., Jan. 2, 20 ^h to 21 ^h (p. 40) | 135 ^s | +13.5' | 14° 28.7' |
| Jan. 2, 20 ^h (p. 40) | 2 37 54 | | |
| Change in 24 ^m 44 ^s (p. 134) | 55 | (p. 134) +5.5 | (p. 133) 5 58.2 |
| Jan. 2, 20 ^h 24 ^m 44 ^s , G. C. T. | 2 38 49 | +12 43.2 | 8 6.3 |

Pages 135–136 contain the Moon's civil *Time of Transit*, *Meridian of Greenwich*, accompanied by the *Variations per Hour*; that is, the variation for one hour of longitude, by means of which the local time of transit may be found for any place whose longitude is known.

EPHEMERIDES OF PLANETS

Pages 138–153 contain the *Right Ascensions*, the *Declinations*, and the *Greenwich Hour Angles* of the four planets, Venus, Mars, Jupiter, and Saturn, for 0^b Greenwich civil time of each day, referred to the true equator and equinox; and the times of *Transit*, *Meridian of Greenwich*, given to the nearest minute. The right ascensions and the declinations are accompanied by the difference or change in every 24-hour interval by means of which

SIDEREAL INTO MEAN SOLAR TIME
TO BE SUBTRACTED FROM A SIDEREAL TIME INTERVAL

| Sidereal | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| m | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s |
| 0 | 0 0.0 | 0 9.8 | 0 19.7 | 0 29.5 | 0 39.3 | 0 49.1 | 0 59.0 | 1 8.8 | 1 18.6 | 1 28.5 | 1 38.3 | 1 48.1 |
| 1 | 0 0.2 | 0 10.0 | 0 19.8 | 0 29.7 | 0 39.5 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.8 | 1 28.6 | 1 38.5 | 1 48.3 |
| 2 | 0 0.3 | 0 10.2 | 0 20.0 | 0 29.8 | 0 39.6 | 0 49.5 | 0 59.3 | 1 9.1 | 1 19.0 | 1 28.8 | 1 38.6 | 1 48.5 |
| 3 | 0 0.5 | 0 10.3 | 0 20.2 | 0 30.0 | 0 39.8 | 0 49.6 | 0 59.5 | 1 9.3 | 1 19.1 | 1 29.0 | 1 38.8 | 1 48.6 |
| 4 | 0 0.7 | 0 10.5 | 0 20.3 | 0 30.1 | 0 40.0 | 0 49.8 | 0 59.6 | 1 9.5 | 1 19.3 | 1 29.1 | 1 39.0 | 1 48.8 |
| 5 | 0 0.8 | 0 10.6 | 0 20.5 | 0 30.3 | 0 40.1 | 0 50.0 | 0 59.8 | 1 9.6 | 1 19.5 | 1 29.3 | 1 39.1 | 1 48.9 |
| 6 | 0 1.0 | 0 10.8 | 0 20.6 | 0 30.5 | 0 40.3 | 0 50.1 | 1 0.0 | 1 9.8 | 1 19.6 | 1 29.4 | 1 39.3 | 1 49.1 |
| 7 | 0 1.1 | 0 11.0 | 0 20.8 | 0 30.6 | 0 40.5 | 0 50.3 | 1 0.1 | 1 10.0 | 1 19.8 | 1 29.6 | 1 39.4 | 1 49.3 |
| 8 | 0 1.3 | 0 11.1 | 0 21.0 | 0 30.8 | 0 40.6 | 0 50.5 | 1 0.3 | 1 10.1 | 1 19.9 | 1 29.8 | 1 39.6 | 1 49.4 |
| 9 | 0 1.5 | 0 11.3 | 0 21.1 | 0 31.0 | 0 40.8 | 0 50.6 | 1 0.5 | 1 10.3 | 1 20.1 | 1 29.9 | 1 39.8 | 1 49.6 |
| 10 | 0 1.6 | 0 11.5 | 0 21.3 | 0 31.1 | 0 41.0 | 0 50.8 | 1 0.6 | 1 10.4 | 1 20.3 | 1 30.1 | 1 39.9 | 1 49.8 |
| 11 | 0 1.8 | 0 11.6 | 0 21.5 | 0 31.3 | 0 41.1 | 0 51.0 | 1 0.8 | 1 10.6 | 1 20.4 | 1 30.3 | 1 40.1 | 1 49.9 |
| 12 | 0 2.0 | 0 11.8 | 0 21.6 | 0 31.5 | 0 41.3 | 0 51.1 | 1 0.9 | 1 10.8 | 1 20.6 | 1 30.4 | 1 40.3 | 1 50.1 |
| 13 | 0 2.1 | 0 12.0 | 0 21.8 | 0 31.6 | 0 41.4 | 0 51.3 | 1 1.1 | 1 10.9 | 1 20.8 | 1 30.6 | 1 40.4 | 1 50.3 |
| 14 | 0 2.3 | 0 12.1 | 0 22.0 | 0 31.8 | 0 41.6 | 0 51.4 | 1 1.3 | 1 11.1 | 1 20.9 | 1 30.8 | 1 40.6 | 1 50.4 |
| 15 | 0 2.5 | 0 12.3 | 0 22.1 | 0 31.9 | 0 41.8 | 0 51.6 | 1 1.4 | 1 11.3 | 1 21.1 | 1 30.9 | 1 40.8 | 1 50.6 |
| 16 | 0 2.6 | 0 12.5 | 0 22.3 | 0 32.1 | 0 41.9 | 0 51.8 | 1 1.6 | 1 11.4 | 1 21.3 | 1 31.1 | 1 40.9 | 1 50.7 |
| 17 | 0 2.8 | 0 12.6 | 0 22.4 | 0 32.3 | 0 42.1 | 0 51.9 | 1 1.8 | 1 11.6 | 1 21.4 | 1 31.3 | 1 41.1 | 1 50.9 |
| 18 | 0 2.9 | 0 12.8 | 0 22.6 | 0 32.4 | 0 42.3 | 0 52.1 | 1 1.9 | 1 11.8 | 1 21.6 | 1 31.4 | 1 41.2 | 1 51.1 |
| 19 | 0 3.1 | 0 12.9 | 0 22.8 | 0 32.6 | 0 42.4 | 0 52.3 | 1 2.1 | 1 11.9 | 1 21.7 | 1 31.6 | 1 41.4 | 1 51.2 |
| 20 | 0 3.3 | 0 13.1 | 0 22.9 | 0 32.8 | 0 42.6 | 0 52.4 | 1 2.3 | 1 12.1 | 1 21.9 | 1 31.7 | 1 41.6 | 1 51.4 |
| 21 | 0 3.4 | 0 13.3 | 0 23.1 | 0 32.9 | 0 42.8 | 0 52.6 | 1 2.4 | 1 12.2 | 1 22.1 | 1 31.9 | 1 41.7 | 1 51.6 |
| 22 | 0 3.6 | 0 13.4 | 0 23.3 | 0 33.1 | 0 42.9 | 0 52.8 | 1 2.6 | 1 12.4 | 1 22.2 | 1 32.1 | 1 41.9 | 1 51.7 |
| 23 | 0 3.8 | 0 13.6 | 0 23.4 | 0 33.3 | 0 43.1 | 0 52.9 | 1 2.7 | 1 12.6 | 1 22.4 | 1 32.2 | 1 42.1 | 1 51.9 |
| 24 | 0 3.9 | 0 13.8 | 0 23.6 | 0 33.4 | 0 43.2 | 0 53.1 | 1 2.9 | 1 12.7 | 1 22.6 | 1 32.4 | 1 42.2 | 1 52.1 |
| 25 | 0 4.1 | 0 13.9 | 0 23.8 | 0 33.6 | 0 43.4 | 0 53.2 | 1 3.1 | 1 12.9 | 1 22.7 | 1 32.6 | 1 42.4 | 1 52.2 |
| 26 | 0 4.3 | 0 14.1 | 0 23.9 | 0 33.7 | 0 43.6 | 0 53.4 | 1 3.2 | 1 13.1 | 1 22.9 | 1 32.7 | 1 42.6 | 1 52.4 |
| 27 | 0 4.4 | 0 14.3 | 0 24.1 | 0 33.9 | 0 43.7 | 0 53.6 | 1 3.4 | 1 13.2 | 1 23.1 | 1 32.9 | 1 42.7 | 1 52.5 |
| 28 | 0 4.6 | 0 14.4 | 0 24.2 | 0 34.1 | 0 43.9 | 0 53.7 | 1 3.6 | 1 13.4 | 1 23.2 | 1 33.1 | 1 42.9 | 1 52.7 |
| 29 | 0 4.8 | 0 14.6 | 0 24.4 | 0 34.2 | 0 44.1 | 0 53.9 | 1 3.7 | 1 13.6 | 1 23.4 | 1 33.2 | 1 43.0 | 1 52.9 |
| 30 | 0 4.9 | 0 14.7 | 0 24.6 | 0 34.4 | 0 44.2 | 0 54.1 | 1 3.9 | 1 13.7 | 1 23.6 | 1 33.4 | 1 43.2 | 1 53.0 |
| 31 | 0 5.1 | 0 14.9 | 0 24.7 | 0 34.6 | 0 44.4 | 0 54.2 | 1 4.1 | 1 13.9 | 1 23.7 | 1 33.5 | 1 43.4 | 1 53.2 |
| 32 | 0 5.2 | 0 15.1 | 0 24.9 | 0 34.7 | 0 44.6 | 0 54.4 | 1 4.2 | 1 14.0 | 1 23.9 | 1 33.7 | 1 43.5 | 1 53.4 |
| 33 | 0 5.4 | 0 15.2 | 0 25.1 | 0 34.9 | 0 44.7 | 0 54.6 | 1 4.4 | 1 14.2 | 1 24.0 | 1 33.9 | 1 43.7 | 1 53.5 |
| 34 | 0 5.6 | 0 15.4 | 0 25.2 | 0 35.1 | 0 44.9 | 0 54.7 | 1 4.5 | 1 14.4 | 1 24.2 | 1 34.0 | 1 43.9 | 1 53.7 |
| 35 | 0 5.7 | 0 15.6 | 0 25.4 | 0 35.2 | 0 45.1 | 0 54.9 | 1 4.7 | 1 14.5 | 1 24.4 | 1 34.2 | 1 44.0 | 1 53.9 |
| 36 | 0 5.9 | 0 15.7 | 0 25.6 | 0 35.4 | 0 45.2 | 0 55.0 | 1 4.9 | 1 14.7 | 1 24.5 | 1 34.4 | 1 44.2 | 1 54.0 |
| 37 | 0 6.1 | 0 15.9 | 0 25.7 | 0 35.6 | 0 45.4 | 0 55.2 | 1 5.0 | 1 14.9 | 1 24.7 | 1 34.5 | 1 44.4 | 1 54.2 |
| 38 | 0 6.2 | 0 16.1 | 0 25.9 | 0 35.7 | 0 45.5 | 0 55.4 | 1 5.2 | 1 15.0 | 1 24.9 | 1 34.7 | 1 44.5 | 1 54.4 |
| 39 | 0 6.4 | 0 16.2 | 0 26.0 | 0 35.9 | 0 45.7 | 0 55.5 | 1 5.4 | 1 15.2 | 1 25.0 | 1 34.9 | 1 44.7 | 1 54.5 |
| 40 | 0 6.6 | 0 16.4 | 0 26.2 | 0 36.0 | 0 45.9 | 0 55.7 | 1 5.5 | 1 15.4 | 1 25.2 | 1 35.0 | 1 44.8 | 1 54.7 |
| 41 | 0 6.7 | 0 16.5 | 0 26.4 | 0 36.2 | 0 46.0 | 0 55.9 | 1 5.7 | 1 15.5 | 1 25.4 | 1 35.2 | 1 45.0 | 1 54.8 |
| 42 | 0 6.9 | 0 16.7 | 0 26.5 | 0 36.4 | 0 46.2 | 0 56.0 | 1 5.9 | 1 15.7 | 1 25.5 | 1 35.3 | 1 45.2 | 1 55.0 |
| 43 | 0 7.0 | 0 16.9 | 0 26.7 | 0 36.5 | 0 46.4 | 0 56.2 | 1 6.0 | 1 15.9 | 1 25.7 | 1 35.5 | 1 45.3 | 1 55.2 |
| 44 | 0 7.2 | 0 17.0 | 0 26.9 | 0 36.7 | 0 46.5 | 0 56.4 | 1 6.2 | 1 16.0 | 1 25.8 | 1 35.7 | 1 45.5 | 1 55.3 |
| 45 | 0 7.4 | 0 17.2 | 0 27.0 | 0 36.9 | 0 46.7 | 0 56.5 | 1 6.4 | 1 16.2 | 1 26.0 | 1 35.8 | 1 45.7 | 1 55.5 |
| 46 | 0 7.5 | 0 17.4 | 0 27.2 | 0 37.0 | 0 46.9 | 0 56.7 | 1 6.5 | 1 16.3 | 1 26.2 | 1 36.0 | 1 45.8 | 1 55.7 |
| 47 | 0 7.7 | 0 17.5 | 0 27.4 | 0 37.2 | 0 47.0 | 0 56.8 | 1 6.7 | 1 16.5 | 1 26.3 | 1 36.2 | 1 46.0 | 1 55.8 |
| 48 | 0 7.9 | 0 17.7 | 0 27.5 | 0 37.4 | 0 47.2 | 0 57.0 | 1 6.8 | 1 16.7 | 1 26.5 | 1 36.3 | 1 46.2 | 1 56.0 |
| 49 | 0 8.0 | 0 17.9 | 0 27.7 | 0 37.5 | 0 47.3 | 0 57.2 | 1 7.0 | 1 16.8 | 1 26.7 | 1 36.5 | 1 46.3 | 1 56.2 |
| 50 | 0 8.2 | 0 18.0 | 0 27.8 | 0 37.7 | 0 47.5 | 0 57.3 | 1 7.2 | 1 17.0 | 1 26.8 | 1 36.7 | 1 46.5 | 1 56.3 |
| 51 | 0 8.4 | 0 18.2 | 0 28.0 | 0 37.8 | 0 47.7 | 0 57.5 | 1 7.3 | 1 17.2 | 1 27.0 | 1 36.8 | 1 46.7 | 1 56.5 |
| 52 | 0 8.5 | 0 18.3 | 0 28.2 | 0 38.0 | 0 47.8 | 0 57.7 | 1 7.5 | 1 17.3 | 1 27.2 | 1 37.0 | 1 46.8 | 1 56.6 |
| 53 | 0 8.7 | 0 18.5 | 0 28.3 | 0 38.2 | 0 48.0 | 0 57.8 | 1 7.7 | 1 17.5 | 1 27.3 | 1 37.1 | 1 47.0 | 1 56.8 |
| 54 | 0 8.8 | 0 18.7 | 0 28.5 | 0 38.3 | 0 48.2 | 0 58.0 | 1 7.8 | 1 17.7 | 1 27.5 | 1 37.3 | 1 47.1 | 1 57.0 |
| 55 | 0 9.0 | 0 18.8 | 0 28.7 | 0 38.5 | 0 48.3 | 0 58.2 | 1 8.0 | 1 17.8 | 1 27.6 | 1 37.5 | 1 47.3 | 1 57.1 |
| 56 | 0 9.2 | 0 19.0 | 0 28.8 | 0 38.7 | 0 48.5 | 0 58.3 | 1 8.2 | 1 18.0 | 1 27.8 | 1 37.6 | 1 47.5 | 1 57.3 |
| 57 | 0 9.3 | 0 19.2 | 0 29.0 | 0 38.8 | 0 48.7 | 0 58.5 | 1 8.3 | 1 18.1 | 1 28.0 | 1 37.8 | 1 47.6 | 1 57.5 |
| 58 | 0 9.5 | 0 19.3 | 0 29.2 | 0 39.0 | 0 48.8 | 0 58.6 | 1 8.5 | 1 18.3 | 1 28.1 | 1 38.0 | 1 47.8 | 1 57.6 |
| 59 | 0 9.7 | 0 19.5 | 0 29.3 | 0 39.2 | 0 49.0 | 0 58.8 | 1 8.6 | 1 18.5 | 1 28.3 | 1 38.1 | 1 48.0 | 1 57.8 |

TABLE V
SIDEREAL INTO MEAN SOLAR TIME
TO BE SUBTRACTED FROM A SIDEREAL TIME INTERVAL

| Sidereal | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
|----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| m | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s |
| 0 | 1 58.0 | 2 7.8 | 2 17.6 | 2 27.4 | 2 37.3 | 2 47.1 | 2 56.9 | 3 6.8 | 3 16.6 | 3 26.4 | 3 36.2 | 3 46.1 |
| 1 | 1 58.1 | 2 7.9 | 2 17.8 | 2 27.6 | 2 37.4 | 2 47.3 | 2 57.1 | 3 6.9 | 3 16.8 | 3 26.6 | 3 36.4 | 3 46.2 |
| 2 | 1 58.3 | 2 8.1 | 2 17.9 | 2 27.8 | 2 37.6 | 2 47.4 | 2 57.3 | 3 7.1 | 3 16.9 | 3 26.7 | 3 36.6 | 3 46.4 |
| 3 | 1 58.4 | 2 8.3 | 2 18.1 | 2 27.9 | 2 37.8 | 2 47.6 | 2 57.4 | 3 7.2 | 3 17.1 | 3 26.9 | 3 36.7 | 3 46.6 |
| 4 | 1 58.6 | 2 8.4 | 2 18.3 | 2 28.1 | 2 37.9 | 2 47.8 | 2 57.6 | 3 7.4 | 3 17.2 | 3 27.1 | 3 36.9 | 3 46.7 |
| 5 | 1 58.8 | 2 8.6 | 2 18.4 | 2 28.3 | 2 38.1 | 2 47.9 | 2 57.8 | 3 7.6 | 3 17.4 | 3 27.2 | 3 37.1 | 3 46.9 |
| 6 | 1 58.9 | 2 8.8 | 2 18.6 | 2 28.4 | 2 38.3 | 2 48.0 | 2 57.9 | 3 7.7 | 3 17.6 | 3 27.4 | 3 37.2 | 3 47.1 |
| 7 | 1 59.1 | 2 8.9 | 2 18.8 | 2 28.6 | 2 38.4 | 2 48.2 | 2 58.1 | 3 7.9 | 3 17.7 | 3 27.6 | 3 37.4 | 3 47.2 |
| 8 | 1 59.3 | 2 9.1 | 2 18.9 | 2 28.8 | 2 38.6 | 2 48.4 | 2 58.2 | 3 8.1 | 3 17.9 | 3 27.7 | 3 37.6 | 3 47.4 |
| 9 | 1 59.4 | 2 9.3 | 2 19.1 | 2 28.9 | 2 38.7 | 2 48.6 | 2 58.4 | 3 8.2 | 3 18.1 | 3 27.9 | 3 37.7 | 3 47.6 |
| 10 | 1 59.6 | 2 9.4 | 2 19.3 | 2 29.1 | 2 38.9 | 2 48.7 | 2 58.6 | 3 8.4 | 3 18.2 | 3 28.1 | 3 37.9 | 3 47.7 |
| 11 | 1 59.8 | 2 9.6 | 2 19.4 | 2 29.2 | 2 39.1 | 2 48.9 | 2 58.7 | 3 8.6 | 3 18.4 | 3 28.2 | 3 38.1 | 3 47.9 |
| 12 | 1 59.9 | 2 9.8 | 2 19.6 | 2 29.4 | 2 39.2 | 2 49.1 | 2 58.9 | 3 8.7 | 3 18.6 | 3 28.4 | 3 38.2 | 3 48.0 |
| 13 | 2 0.1 | 2 9.9 | 2 19.7 | 2 29.6 | 2 39.4 | 2 49.2 | 2 59.1 | 3 8.9 | 3 18.7 | 3 28.6 | 3 38.4 | 3 48.2 |
| 14 | 2 0.2 | 2 10.1 | 2 19.9 | 2 29.7 | 2 39.6 | 2 49.4 | 2 59.2 | 3 9.1 | 3 18.9 | 3 28.7 | 3 38.5 | 3 48.4 |
| 15 | 2 0.4 | 2 10.2 | 2 20.1 | 2 29.9 | 2 39.7 | 2 49.6 | 2 59.4 | 3 9.2 | 3 19.0 | 3 28.9 | 3 38.7 | 3 48.5 |
| 16 | 2 0.6 | 2 10.4 | 2 20.2 | 2 30.1 | 2 39.9 | 2 49.7 | 2 59.6 | 3 9.4 | 3 19.2 | 3 29.0 | 3 38.9 | 3 48.7 |
| 17 | 2 0.7 | 2 10.6 | 2 20.4 | 2 30.2 | 2 40.1 | 2 49.9 | 2 59.7 | 3 9.5 | 3 19.4 | 3 29.2 | 3 39.0 | 3 48.9 |
| 18 | 2 0.9 | 2 10.7 | 2 20.6 | 2 30.4 | 2 40.2 | 2 50.1 | 2 59.9 | 3 9.7 | 3 19.5 | 3 29.4 | 3 39.2 | 3 49.0 |
| 19 | 2 1.1 | 2 10.9 | 2 20.7 | 2 30.6 | 2 40.4 | 2 50.2 | 3 0.0 | 3 9.9 | 3 19.7 | 3 29.5 | 3 39.4 | 3 49.2 |
| 20 | 2 1.2 | 2 11.1 | 2 20.9 | 2 30.7 | 2 40.5 | 2 50.4 | 3 0.2 | 3 10.0 | 3 19.9 | 3 29.7 | 3 39.5 | 3 49.4 |
| 21 | 2 1.4 | 2 11.2 | 2 21.1 | 2 30.9 | 2 40.7 | 2 50.5 | 3 0.4 | 3 10.2 | 3 20.0 | 3 29.9 | 3 39.7 | 3 49.5 |
| 22 | 2 1.6 | 2 11.4 | 2 21.2 | 2 31.0 | 2 40.9 | 2 50.7 | 3 0.5 | 3 10.4 | 3 20.2 | 3 30.0 | 3 39.9 | 3 49.7 |
| 23 | 2 1.7 | 2 11.6 | 2 21.4 | 2 31.2 | 2 41.0 | 2 50.9 | 3 0.7 | 3 10.5 | 3 20.4 | 3 30.2 | 3 40.0 | 3 49.8 |
| 24 | 2 1.9 | 2 11.7 | 2 21.5 | 2 31.4 | 2 41.2 | 2 51.0 | 3 0.9 | 3 10.7 | 3 20.5 | 3 30.4 | 3 40.2 | 3 50.0 |
| 25 | 2 2.0 | 2 11.9 | 2 21.7 | 2 31.5 | 2 41.4 | 2 51.2 | 3 1.0 | 3 10.9 | 3 20.7 | 3 30.5 | 3 40.3 | 3 50.2 |
| 26 | 2 2.2 | 2 12.0 | 2 21.9 | 2 31.7 | 2 41.5 | 2 51.4 | 3 1.2 | 3 11.0 | 3 20.9 | 3 30.7 | 3 40.5 | 3 50.3 |
| 27 | 2 2.4 | 2 12.2 | 2 22.0 | 2 31.9 | 2 41.7 | 2 51.5 | 3 1.4 | 3 11.2 | 3 21.0 | 3 30.8 | 3 40.7 | 3 50.5 |
| 28 | 2 2.5 | 2 12.4 | 2 22.2 | 2 32.0 | 2 41.9 | 2 51.7 | 3 1.5 | 3 11.3 | 3 21.2 | 3 31.0 | 3 40.8 | 3 50.7 |
| 29 | 2 2.7 | 2 12.5 | 2 22.4 | 2 32.2 | 2 42.0 | 2 51.9 | 3 1.7 | 3 11.5 | 3 21.3 | 3 31.2 | 3 41.0 | 3 50.8 |
| 30 | 2 2.9 | 2 12.7 | 2 22.5 | 2 32.4 | 2 42.2 | 2 52.0 | 3 1.8 | 3 11.7 | 3 21.5 | 3 31.3 | 3 41.2 | 3 51.0 |
| 31 | 2 3.0 | 2 12.9 | 2 22.7 | 2 32.5 | 2 42.4 | 2 52.2 | 3 2.0 | 3 11.8 | 3 21.7 | 3 31.5 | 3 41.3 | 3 51.2 |
| 32 | 2 3.2 | 2 13.0 | 2 22.9 | 2 32.7 | 2 42.5 | 2 52.3 | 3 2.2 | 3 12.0 | 3 21.8 | 3 31.7 | 3 41.5 | 3 51.3 |
| 33 | 2 3.4 | 2 13.2 | 2 23.0 | 2 32.8 | 2 42.7 | 2 52.5 | 3 2.3 | 3 12.2 | 3 22.0 | 3 31.8 | 3 41.7 | 3 51.5 |
| 34 | 2 3.5 | 2 13.4 | 2 23.2 | 2 33.0 | 2 42.8 | 2 52.7 | 3 2.5 | 3 12.3 | 3 22.2 | 3 32.0 | 3 41.8 | 3 51.6 |
| 35 | 2 3.7 | 2 13.5 | 2 23.3 | 2 33.2 | 2 43.0 | 2 52.8 | 3 2.6 | 3 12.5 | 3 22.3 | 3 32.2 | 3 42.0 | 3 51.8 |
| 36 | 2 3.9 | 2 13.7 | 2 23.5 | 2 33.3 | 2 43.2 | 2 53.0 | 3 2.8 | 3 12.7 | 3 22.5 | 3 32.3 | 3 42.1 | 3 52.0 |
| 37 | 2 4.0 | 2 13.8 | 2 23.7 | 2 33.5 | 2 43.3 | 2 53.2 | 3 3.0 | 3 12.8 | 3 22.7 | 3 32.5 | 3 42.3 | 3 52.1 |
| 38 | 2 4.2 | 2 14.0 | 2 23.8 | 2 33.7 | 2 43.5 | 2 53.3 | 3 3.2 | 3 13.0 | 3 22.8 | 3 32.6 | 3 42.5 | 3 52.3 |
| 39 | 2 4.3 | 2 14.2 | 2 24.0 | 2 33.8 | 2 43.7 | 2 53.5 | 3 3.3 | 3 13.2 | 3 23.0 | 3 32.8 | 3 42.6 | 3 52.5 |
| 40 | 2 4.5 | 2 14.3 | 2 24.2 | 2 34.0 | 2 43.8 | 2 53.7 | 3 3.5 | 3 13.3 | 3 23.1 | 3 33.0 | 3 42.8 | 3 52.6 |
| 41 | 2 4.7 | 2 14.5 | 2 24.3 | 2 34.2 | 2 44.0 | 2 53.8 | 3 3.6 | 3 13.5 | 3 23.3 | 3 33.1 | 3 43.0 | 3 52.8 |
| 42 | 2 4.8 | 2 14.7 | 2 24.5 | 2 34.3 | 2 44.2 | 2 54.0 | 3 3.8 | 3 13.6 | 3 23.5 | 3 33.3 | 3 43.1 | 3 53.0 |
| 43 | 2 5.0 | 2 14.8 | 2 24.7 | 2 34.5 | 2 44.3 | 2 54.1 | 3 4.0 | 3 13.8 | 3 23.6 | 3 33.5 | 3 43.3 | 3 53.1 |
| 44 | 2 5.2 | 2 15.0 | 2 24.8 | 2 34.7 | 2 44.5 | 2 54.3 | 3 4.1 | 3 14.0 | 3 23.8 | 3 33.6 | 3 43.5 | 3 53.3 |
| 45 | 2 5.3 | 2 15.2 | 2 25.0 | 2 34.8 | 2 44.6 | 2 54.5 | 3 4.3 | 3 14.1 | 3 24.0 | 3 33.8 | 3 43.6 | 3 53.5 |
| 46 | 2 5.5 | 2 15.3 | 2 25.2 | 2 35.0 | 2 44.8 | 2 54.6 | 3 4.5 | 3 14.3 | 3 24.1 | 3 34.0 | 3 43.8 | 3 53.6 |
| 47 | 2 5.7 | 2 15.5 | 2 25.3 | 2 35.1 | 2 45.0 | 2 54.8 | 3 4.6 | 3 14.5 | 3 24.3 | 3 34.1 | 3 44.0 | 3 53.8 |
| 48 | 2 5.8 | 2 15.6 | 2 25.5 | 2 35.3 | 2 45.1 | 2 55.0 | 3 4.8 | 3 14.6 | 3 24.5 | 3 34.3 | 3 44.1 | 3 53.9 |
| 49 | 2 6.0 | 2 15.8 | 2 25.6 | 2 35.5 | 2 45.3 | 2 55.1 | 3 5.0 | 3 14.8 | 3 24.6 | 3 34.4 | 3 44.3 | 3 54.1 |
| 50 | 2 6.1 | 2 16.0 | 2 25.8 | 2 35.6 | 2 45.5 | 2 55.3 | 3 5.1 | 3 15.0 | 3 24.8 | 3 34.6 | 3 44.4 | 3 54.3 |
| 51 | 2 6.3 | 2 16.1 | 2 26.0 | 2 35.8 | 2 45.6 | 2 55.5 | 3 5.3 | 3 15.1 | 3 24.9 | 3 34.8 | 3 44.6 | 3 54.4 |
| 52 | 2 6.5 | 2 16.3 | 2 26.1 | 2 36.0 | 2 45.8 | 2 55.6 | 3 5.5 | 3 15.3 | 3 25.1 | 3 34.9 | 3 44.8 | 3 54.6 |
| 53 | 2 6.6 | 2 16.5 | 2 26.3 | 2 36.1 | 2 46.0 | 2 55.8 | 3 5.6 | 3 15.4 | 3 25.3 | 3 35.1 | 3 44.9 | 3 54.8 |
| 54 | 2 6.8 | 2 16.6 | 2 26.5 | 2 36.3 | 2 46.1 | 2 55.9 | 3 5.8 | 3 15.6 | 3 25.4 | 3 35.3 | 3 45.1 | 3 54.9 |
| 55 | 2 7.0 | 2 16.8 | 2 26.6 | 2 36.5 | 2 46.3 | 2 56.1 | 3 5.9 | 3 15.8 | 3 25.6 | 3 35.4 | 3 45.3 | 3 55.1 |
| 56 | 2 7.1 | 2 17.0 | 2 26.8 | 2 36.6 | 2 46.4 | 2 56.3 | 3 6.1 | 3 15.9 | 3 25.8 | 3 35.6 | 3 45.4 | 3 55.3 |
| 57 | 2 7.3 | 2 17.1 | 2 27.0 | 2 36.8 | 2 46.6 | 2 56.4 | 3 6.3 | 3 16.1 | 3 25.9 | 3 35.8 | 3 45.6 | 3 55.4 |
| 58 | 2 7.5 | 2 17.3 | 2 27.1 | 2 36.9 | 2 46.8 | 2 56.6 | 3 6.4 | 3 16.3 | 3 26.1 | 3 35.9 | 3 45.8 | 3 55.6 |
| 59 | 2 7.6 | 2 17.4 | 2 27.3 | 2 37.1 | 2 46.9 | 2 56.8 | 3 6.6 | 3 16.4 | 3 26.3 | 3 36.1 | 3 45.9 | 3 55.7 |

TABLE VI

289

 MEAN SOLAR INTO SIDEREAL TIME
 TO BE ADDED TO A MEAN TIME INTERVAL

| Mean Solar | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| m | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s |
| 0 | 0 0.0 | 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 |
| 1 | 0 0.2 | 0 10.0 | 0 19.9 | 0 29.7 | 0 39.6 | 0 49.4 | 0 59.3 | 1 9.2 | 1 19.0 | 1 28.9 | 1 38.7 | 1 48.6 |
| 2 | 0 0.3 | 0 10.2 | 0 20.0 | 0 29.9 | 0 39.8 | 0 49.6 | 0 59.5 | 1 9.3 | 1 19.2 | 1 29.0 | 1 38.9 | 1 48.8 |
| 3 | 0 0.5 | 0 10.3 | 0 20.2 | 0 30.1 | 0 39.9 | 0 49.8 | 0 59.6 | 1 9.5 | 1 19.3 | 1 29.2 | 1 39.1 | 1 48.9 |
| 4 | 0 0.7 | 0 10.5 | 0 20.4 | 0 30.2 | 0 40.1 | 0 49.9 | 0 59.8 | 1 9.7 | 1 19.5 | 1 29.4 | 1 39.2 | 1 49.1 |
| 5 | 0 0.8 | 0 10.7 | 0 20.5 | 0 30.4 | 0 40.2 | 0 50.1 | 1 0.0 | 1 9.8 | 1 19.7 | 1 29.5 | 1 39.4 | 1 49.2 |
| 6 | 0 1.0 | 0 10.8 | 0 20.7 | 0 30.6 | 0 40.4 | 0 50.3 | 1 0.1 | 1 10.0 | 1 19.8 | 1 29.7 | 1 39.6 | 1 49.4 |
| 7 | 0 1.2 | 0 11.0 | 0 20.9 | 0 30.7 | 0 40.6 | 0 50.4 | 1 0.3 | 1 10.1 | 1 20.0 | 1 29.9 | 1 39.7 | 1 49.6 |
| 8 | 0 1.3 | 0 11.2 | 0 21.0 | 0 30.9 | 0 40.7 | 0 50.6 | 1 0.5 | 1 10.3 | 1 20.2 | 1 30.0 | 1 39.9 | 1 49.7 |
| 9 | 0 1.5 | 0 11.3 | 0 21.2 | 0 31.0 | 0 40.9 | 0 50.8 | 1 0.6 | 1 10.5 | 1 20.3 | 1 30.2 | 1 40.0 | 1 49.9 |
| 10 | 0 1.6 | 0 11.5 | 0 21.4 | 0 31.2 | 0 41.1 | 0 50.9 | 1 0.8 | 1 10.6 | 1 20.5 | 1 30.4 | 1 40.2 | 1 50.1 |
| 11 | 0 1.8 | 0 11.7 | 0 21.5 | 0 31.4 | 0 41.2 | 0 51.1 | 1 0.9 | 1 10.8 | 1 20.7 | 1 30.5 | 1 40.4 | 1 50.2 |
| 12 | 0 2.0 | 0 11.8 | 0 21.7 | 0 31.5 | 0 41.4 | 0 51.3 | 1 1.1 | 1 11.0 | 1 20.8 | 1 30.7 | 1 40.5 | 1 50.4 |
| 13 | 0 2.1 | 0 12.0 | 0 21.8 | 0 31.7 | 0 41.6 | 0 51.4 | 1 1.3 | 1 11.1 | 1 21.0 | 1 30.8 | 1 40.7 | 1 50.6 |
| 14 | 0 2.3 | 0 12.2 | 0 22.0 | 0 31.9 | 0 41.7 | 0 51.6 | 1 1.4 | 1 11.3 | 1 21.2 | 1 31.0 | 1 40.9 | 1 50.7 |
| 15 | 0 2.5 | 0 12.3 | 0 22.2 | 0 32.0 | 0 41.9 | 0 51.7 | 1 1.6 | 1 11.5 | 1 21.3 | 1 31.2 | 1 41.0 | 1 50.9 |
| 16 | 0 2.6 | 0 12.5 | 0 22.3 | 0 32.2 | 0 42.1 | 0 51.9 | 1 1.8 | 1 11.6 | 1 21.5 | 1 31.3 | 1 41.2 | 1 51.0 |
| 17 | 0 2.8 | 0 12.6 | 0 22.5 | 0 32.4 | 0 42.2 | 0 52.1 | 1 1.9 | 1 11.8 | 1 21.6 | 1 31.5 | 1 41.4 | 1 51.2 |
| 18 | 0 3.0 | 0 12.8 | 0 22.7 | 0 32.5 | 0 42.4 | 0 52.2 | 1 2.1 | 1 12.0 | 1 21.8 | 1 31.7 | 1 41.5 | 1 51.4 |
| 19 | 0 3.1 | 0 13.0 | 0 22.8 | 0 32.7 | 0 42.5 | 0 52.4 | 1 2.3 | 1 12.1 | 1 22.0 | 1 31.8 | 1 41.7 | 1 51.5 |
| 20 | 0 3.3 | 0 13.1 | 0 23.0 | 0 32.9 | 0 42.7 | 0 52.6 | 1 2.4 | 1 12.3 | 1 22.1 | 1 32.0 | 1 41.8 | 1 51.7 |
| 21 | 0 3.4 | 0 13.3 | 0 23.2 | 0 33.0 | 0 42.9 | 0 52.7 | 1 2.6 | 1 12.4 | 1 22.3 | 1 32.2 | 1 42.0 | 1 51.9 |
| 22 | 0 3.6 | 0 13.5 | 0 23.3 | 0 33.2 | 0 43.0 | 0 52.9 | 1 2.8 | 1 12.6 | 1 22.5 | 1 32.3 | 1 42.2 | 1 52.0 |
| 23 | 0 3.8 | 0 13.6 | 0 23.5 | 0 33.3 | 0 43.2 | 0 53.1 | 1 2.9 | 1 12.8 | 1 22.6 | 1 32.5 | 1 42.3 | 1 52.2 |
| 24 | 0 3.9 | 0 13.8 | 0 23.7 | 0 33.5 | 0 43.4 | 0 53.2 | 1 3.1 | 1 12.9 | 1 22.8 | 1 32.7 | 1 42.5 | 1 52.4 |
| 25 | 0 4.1 | 0 14.0 | 0 23.8 | 0 33.7 | 0 43.5 | 0 53.4 | 1 3.2 | 1 13.1 | 1 23.0 | 1 32.8 | 1 42.7 | 1 52.5 |
| 26 | 0 4.3 | 0 14.1 | 0 24.0 | 0 33.8 | 0 43.7 | 0 53.6 | 1 3.4 | 1 13.3 | 1 23.1 | 1 33.0 | 1 42.8 | 1 52.7 |
| 27 | 0 4.4 | 0 14.3 | 0 24.1 | 0 34.0 | 0 43.9 | 0 53.7 | 1 3.6 | 1 13.4 | 1 23.3 | 1 33.1 | 1 43.0 | 1 52.9 |
| 28 | 0 4.6 | 0 14.5 | 0 24.3 | 0 34.2 | 0 44.0 | 0 53.9 | 1 3.7 | 1 13.6 | 1 23.5 | 1 33.3 | 1 43.2 | 1 53.0 |
| 29 | 0 4.8 | 0 14.6 | 0 24.5 | 0 34.3 | 0 44.2 | 0 54.0 | 1 3.9 | 1 13.8 | 1 23.6 | 1 33.5 | 1 43.3 | 1 53.2 |
| 30 | 0 4.9 | 0 14.8 | 0 24.6 | 0 34.5 | 0 44.4 | 0 54.2 | 1 4.1 | 1 13.9 | 1 23.8 | 1 33.6 | 1 43.5 | 1 53.3 |
| 31 | 0 5.1 | 0 14.9 | 0 24.8 | 0 34.7 | 0 44.5 | 0 54.4 | 1 4.2 | 1 14.1 | 1 23.9 | 1 33.8 | 1 43.7 | 1 53.5 |
| 32 | 0 5.3 | 0 15.1 | 0 25.0 | 0 34.8 | 0 44.7 | 0 54.5 | 1 4.4 | 1 14.3 | 1 24.1 | 1 34.0 | 1 43.8 | 1 53.7 |
| 33 | 0 5.4 | 0 15.3 | 0 25.1 | 0 35.0 | 0 44.8 | 0 54.7 | 1 4.6 | 1 14.4 | 1 24.3 | 1 34.1 | 1 44.0 | 1 53.8 |
| 34 | 0 5.6 | 0 15.4 | 0 25.3 | 0 35.2 | 0 45.0 | 0 54.9 | 1 4.7 | 1 14.6 | 1 24.4 | 1 34.3 | 1 44.2 | 1 54.0 |
| 35 | 0 5.8 | 0 15.6 | 0 25.5 | 0 35.3 | 0 45.2 | 0 55.0 | 1 4.9 | 1 14.7 | 1 24.6 | 1 34.5 | 1 44.3 | 1 54.2 |
| 36 | 0 5.9 | 0 15.8 | 0 25.6 | 0 35.5 | 0 45.3 | 0 55.2 | 1 5.1 | 1 14.9 | 1 24.8 | 1 34.6 | 1 44.5 | 1 54.3 |
| 37 | 0 6.1 | 0 15.9 | 0 25.8 | 0 35.6 | 0 45.5 | 0 55.4 | 1 5.2 | 1 15.1 | 1 24.9 | 1 34.8 | 1 44.6 | 1 54.5 |
| 38 | 0 6.2 | 0 16.1 | 0 26.0 | 0 35.8 | 0 45.7 | 0 55.5 | 1 5.4 | 1 15.2 | 1 25.1 | 1 35.0 | 1 44.8 | 1 54.7 |
| 39 | 0 6.4 | 0 16.3 | 0 26.1 | 0 36.0 | 0 45.8 | 0 55.7 | 1 5.5 | 1 15.4 | 1 25.3 | 1 35.1 | 1 45.0 | 1 54.8 |
| 40 | 0 6.6 | 0 16.4 | 0 26.3 | 0 36.1 | 0 46.0 | 0 55.9 | 1 5.7 | 1 15.6 | 1 25.4 | 1 35.3 | 1 45.1 | 1 55.0 |
| 41 | 0 6.7 | 0 16.6 | 0 26.4 | 0 36.3 | 0 46.2 | 0 56.0 | 1 5.9 | 1 15.7 | 1 25.6 | 1 35.4 | 1 45.3 | 1 55.2 |
| 42 | 0 6.9 | 0 16.8 | 0 26.6 | 0 36.5 | 0 46.3 | 0 56.2 | 1 6.0 | 1 15.9 | 1 25.8 | 1 35.6 | 1 45.5 | 1 55.3 |
| 43 | 0 7.1 | 0 16.9 | 0 26.8 | 0 36.6 | 0 46.5 | 0 56.3 | 1 6.2 | 1 16.1 | 1 25.9 | 1 35.8 | 1 45.6 | 1 55.5 |
| 44 | 0 7.2 | 0 17.1 | 0 26.9 | 0 36.8 | 0 46.7 | 0 56.5 | 1 6.4 | 1 16.2 | 1 26.1 | 1 35.9 | 1 45.8 | 1 55.6 |
| 45 | 0 7.4 | 0 17.2 | 0 27.1 | 0 37.0 | 0 46.8 | 0 56.7 | 1 6.5 | 1 16.4 | 1 26.2 | 1 36.1 | 1 46.0 | 1 55.8 |
| 46 | 0 7.6 | 0 17.4 | 0 27.3 | 0 37.1 | 0 47.0 | 0 56.8 | 1 6.7 | 1 16.6 | 1 26.4 | 1 36.3 | 1 46.1 | 1 56.0 |
| 47 | 0 7.7 | 0 17.6 | 0 27.4 | 0 37.3 | 0 47.1 | 0 57.0 | 1 6.9 | 1 16.7 | 1 26.6 | 1 36.4 | 1 46.3 | 1 56.1 |
| 48 | 0 7.9 | 0 17.7 | 0 27.6 | 0 37.5 | 0 47.3 | 0 57.2 | 1 7.0 | 1 16.9 | 1 26.7 | 1 36.6 | 1 46.4 | 1 56.3 |
| 49 | 0 8.0 | 0 17.9 | 0 27.8 | 0 37.6 | 0 47.5 | 0 57.3 | 1 7.2 | 1 17.0 | 1 26.9 | 1 36.8 | 1 46.6 | 1 56.5 |
| 50 | 0 8.2 | 0 18.1 | 0 27.9 | 0 37.8 | 0 47.6 | 0 57.5 | 1 7.4 | 1 17.2 | 1 27.1 | 1 36.9 | 1 46.8 | 1 56.6 |
| 51 | 0 8.4 | 0 18.2 | 0 28.1 | 0 37.9 | 0 47.8 | 0 57.7 | 1 7.5 | 1 17.4 | 1 27.2 | 1 37.1 | 1 46.9 | 1 56.8 |
| 52 | 0 8.5 | 0 18.4 | 0 28.3 | 0 38.1 | 0 48.0 | 0 57.8 | 1 7.7 | 1 17.5 | 1 27.4 | 1 37.3 | 1 47.1 | 1 57.0 |
| 53 | 0 8.7 | 0 18.6 | 0 28.4 | 0 38.3 | 0 48.1 | 0 58.0 | 1 7.8 | 1 17.7 | 1 27.6 | 1 37.4 | 1 47.3 | 1 57.1 |
| 54 | 0 8.9 | 0 18.7 | 0 28.6 | 0 38.4 | 0 48.3 | 0 58.2 | 1 8.0 | 1 17.9 | 1 27.7 | 1 37.6 | 1 47.4 | 1 57.3 |
| 55 | 0 9.0 | 0 18.9 | 0 28.7 | 0 38.6 | 0 48.5 | 0 58.3 | 1 8.2 | 1 18.0 | 1 27.9 | 1 37.7 | 1 47.6 | 1 57.5 |
| 56 | 0 9.2 | 0 19.1 | 0 28.9 | 0 38.8 | 0 48.6 | 0 58.5 | 1 8.3 | 1 18.2 | 1 28.1 | 1 37.9 | 1 47.8 | 1 57.6 |
| 57 | 0 9.4 | 0 19.2 | 0 29.1 | 0 38.9 | 0 48.8 | 0 58.6 | 1 8.5 | 1 18.4 | 1 28.2 | 1 38.1 | 1 47.9 | 1 57.8 |
| 58 | 0 9.5 | 0 19.4 | 0 29.2 | 0 39.1 | 0 49.0 | 0 58.8 | 1 8.7 | 1 18.5 | 1 28.4 | 1 38.2 | 1 48.1 | 1 57.9 |
| 59 | 0 9.7 | 0 19.5 | 0 29.4 | 0 39.3 | 0 49.1 | 0 59.0 | 1 8.8 | 1 18.7 | 1 28.5 | 1 38.4 | 1 48.3 | 1 58.1 |

TABLE VI

 MEAN SOLAR INTO SIDEREAL TIME
 TO BE ADDED TO A MEAN TIME INTERVAL

| Mean Solar | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| m | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s |
| 0 | 1 58.3 | 2 8.1 | 2 18.0 | 2 27.8 | 2 37.7 | 2 47.6 | 2 57.4 | 3 7.3 | 3 17.1 | 3 27.0 | 3 36.8 | 3 46.7 |
| 1 | 1 58.4 | 2 8.3 | 2 18.2 | 2 28.0 | 2 37.9 | 2 47.7 | 2 57.6 | 3 7.4 | 3 17.3 | 3 27.2 | 3 37.0 | 3 46.9 |
| 2 | 1 58.6 | 2 8.5 | 2 18.3 | 2 28.2 | 2 38.0 | 2 47.9 | 2 57.7 | 3 7.6 | 3 17.5 | 3 27.3 | 3 37.2 | 3 47.0 |
| 3 | 1 58.8 | 2 8.6 | 2 18.5 | 2 28.3 | 2 38.2 | 2 48.1 | 2 57.9 | 3 7.8 | 3 17.6 | 3 27.5 | 3 37.3 | 3 47.2 |
| 4 | 1 58.9 | 2 8.8 | 2 18.6 | 2 28.5 | 2 38.4 | 2 48.2 | 2 58.1 | 3 7.9 | 3 17.8 | 3 27.6 | 3 37.5 | 3 47.4 |
| 5 | 1 59.1 | 2 9.0 | 2 18.8 | 2 28.7 | 2 38.5 | 2 48.4 | 2 58.2 | 3 8.1 | 3 18.0 | 3 27.8 | 3 37.7 | 3 47.5 |
| 6 | 1 59.3 | 2 9.1 | 2 19.0 | 2 28.8 | 2 38.7 | 2 48.5 | 2 58.4 | 3 8.3 | 3 18.1 | 3 28.0 | 3 37.8 | 3 47.7 |
| 7 | 1 59.4 | 2 9.3 | 2 19.1 | 2 29.0 | 2 38.9 | 2 48.7 | 2 58.6 | 3 8.4 | 3 18.3 | 3 28.1 | 3 38.0 | 3 47.8 |
| 8 | 1 59.6 | 2 9.4 | 2 19.3 | 2 29.2 | 2 39.0 | 2 48.9 | 2 58.7 | 3 8.6 | 3 18.4 | 3 28.3 | 3 38.2 | 3 48.0 |
| 9 | 1 59.8 | 2 9.6 | 2 19.5 | 2 29.3 | 2 39.2 | 2 49.0 | 2 58.9 | 3 8.8 | 3 18.6 | 3 28.5 | 3 38.3 | 3 48.2 |
| 10 | 1 59.9 | 2 9.8 | 2 19.6 | 2 29.5 | 2 39.3 | 2 49.2 | 2 59.1 | 3 8.9 | 3 18.8 | 3 28.6 | 3 38.5 | 3 48.3 |
| 11 | 2 0.1 | 2 9.9 | 2 19.8 | 2 29.7 | 2 39.5 | 2 49.4 | 2 59.2 | 3 9.1 | 3 18.9 | 3 28.8 | 3 38.6 | 3 48.5 |
| 12 | 2 0.2 | 2 10.1 | 2 20.0 | 2 29.8 | 2 39.7 | 2 49.5 | 2 59.4 | 3 9.2 | 3 19.1 | 3 29.0 | 3 38.8 | 3 48.7 |
| 13 | 2 0.4 | 2 10.3 | 2 20.1 | 2 30.0 | 2 39.8 | 2 49.7 | 2 59.6 | 3 9.4 | 3 19.3 | 3 29.1 | 3 39.0 | 3 48.8 |
| 14 | 2 0.6 | 2 10.4 | 2 20.3 | 2 30.1 | 2 40.0 | 2 49.9 | 2 59.7 | 3 9.6 | 3 19.4 | 3 29.3 | 3 39.1 | 3 49.0 |
| 15 | 2 0.7 | 2 10.6 | 2 20.5 | 2 30.3 | 2 40.2 | 2 50.0 | 2 59.9 | 3 9.7 | 3 19.6 | 3 29.4 | 3 39.3 | 3 49.2 |
| 16 | 2 0.9 | 2 10.8 | 2 20.6 | 2 30.5 | 2 40.3 | 2 50.2 | 3 0.0 | 3 9.9 | 3 19.8 | 3 29.6 | 3 39.5 | 3 49.3 |
| 17 | 2 1.1 | 2 10.9 | 2 20.8 | 2 30.6 | 2 40.5 | 2 50.4 | 3 0.2 | 3 10.1 | 3 19.9 | 3 29.8 | 3 39.6 | 3 49.5 |
| 18 | 2 1.2 | 2 11.1 | 2 20.9 | 2 30.8 | 2 40.7 | 2 50.5 | 3 0.4 | 3 10.2 | 3 20.1 | 3 29.9 | 3 39.8 | 3 49.7 |
| 19 | 2 1.4 | 2 11.3 | 2 21.1 | 2 31.0 | 2 40.8 | 2 50.7 | 3 0.5 | 3 10.4 | 3 20.3 | 3 30.1 | 3 40.0 | 3 49.8 |
| 20 | 2 1.6 | 2 11.4 | 2 21.3 | 2 31.1 | 2 41.0 | 2 50.8 | 3 0.7 | 3 10.6 | 3 20.4 | 3 30.3 | 3 40.1 | 3 50.0 |
| 21 | 2 1.7 | 2 11.6 | 2 21.4 | 2 31.3 | 2 41.2 | 2 51.0 | 3 0.9 | 3 10.7 | 3 20.6 | 3 30.4 | 3 40.3 | 3 50.1 |
| 22 | 2 1.9 | 2 11.7 | 2 21.6 | 2 31.5 | 2 41.3 | 2 51.2 | 3 1.0 | 3 10.9 | 3 20.7 | 3 30.6 | 3 40.5 | 3 50.3 |
| 23 | 2 2.1 | 2 11.9 | 2 21.8 | 2 31.6 | 2 41.5 | 2 51.3 | 3 1.2 | 3 11.1 | 3 20.9 | 3 30.8 | 3 40.6 | 3 50.5 |
| 24 | 2 2.2 | 2 12.1 | 2 21.9 | 2 31.8 | 2 41.6 | 2 51.5 | 3 1.4 | 3 11.2 | 3 21.1 | 3 30.9 | 3 40.8 | 3 50.6 |
| 25 | 2 2.4 | 2 12.2 | 2 22.1 | 2 32.0 | 2 41.8 | 2 51.7 | 3 1.5 | 3 11.4 | 3 21.2 | 3 31.1 | 3 40.9 | 3 50.8 |
| 26 | 2 2.5 | 2 12.4 | 2 22.3 | 2 32.1 | 2 42.0 | 2 51.8 | 3 1.7 | 3 11.5 | 3 21.4 | 3 31.3 | 3 41.1 | 3 51.0 |
| 27 | 2 2.7 | 2 12.6 | 2 22.4 | 2 32.3 | 2 42.1 | 2 52.0 | 3 1.9 | 3 11.7 | 3 21.6 | 3 31.4 | 3 41.3 | 3 51.1 |
| 28 | 2 2.9 | 2 12.7 | 2 22.6 | 2 32.4 | 2 42.3 | 2 52.2 | 3 2.0 | 3 11.9 | 3 21.7 | 3 31.6 | 3 41.4 | 3 51.3 |
| 29 | 2 3.0 | 2 12.9 | 2 22.8 | 2 32.6 | 2 42.5 | 2 52.3 | 3 2.2 | 3 12.0 | 3 21.9 | 3 31.8 | 3 41.6 | 3 51.5 |
| 30 | 2 3.2 | 2 13.1 | 2 22.9 | 2 32.8 | 2 42.6 | 2 52.5 | 3 2.3 | 3 12.2 | 3 22.1 | 3 31.9 | 3 41.8 | 3 51.6 |
| 31 | 2 3.4 | 2 13.2 | 2 23.1 | 2 32.9 | 2 42.8 | 2 52.7 | 3 2.5 | 3 12.4 | 3 22.2 | 3 32.1 | 3 41.9 | 3 51.8 |
| 32 | 2 3.5 | 2 13.4 | 2 23.2 | 2 33.1 | 2 43.0 | 2 52.8 | 3 2.7 | 3 12.5 | 3 22.4 | 3 32.2 | 3 42.1 | 3 52.0 |
| 33 | 2 3.7 | 2 13.6 | 2 23.4 | 2 33.3 | 2 43.1 | 2 53.0 | 3 2.8 | 3 12.7 | 3 22.6 | 3 32.4 | 3 42.3 | 3 52.1 |
| 34 | 2 3.9 | 2 13.7 | 2 23.6 | 2 33.4 | 2 43.3 | 2 53.1 | 3 3.0 | 3 12.9 | 3 22.7 | 3 32.6 | 3 42.4 | 3 52.3 |
| 35 | 2 4.0 | 2 13.9 | 2 23.7 | 2 33.6 | 2 43.5 | 2 53.3 | 3 3.2 | 3 13.0 | 3 22.9 | 3 32.7 | 3 42.6 | 3 52.4 |
| 36 | 2 4.2 | 2 14.0 | 2 23.9 | 2 33.8 | 2 43.6 | 2 53.5 | 3 3.3 | 3 13.2 | 3 23.0 | 3 32.9 | 3 42.8 | 3 52.6 |
| 37 | 2 4.4 | 2 14.2 | 2 24.1 | 2 33.9 | 2 43.8 | 2 53.6 | 3 3.5 | 3 13.4 | 3 23.2 | 3 33.1 | 3 42.9 | 3 52.8 |
| 38 | 2 4.5 | 2 14.4 | 2 24.2 | 2 34.1 | 2 43.9 | 2 53.8 | 3 3.7 | 3 13.5 | 3 23.4 | 3 33.2 | 3 43.1 | 3 52.9 |
| 39 | 2 4.7 | 2 14.5 | 2 24.4 | 2 34.3 | 2 44.1 | 2 54.0 | 3 3.8 | 3 13.7 | 3 23.5 | 3 33.4 | 3 43.2 | 3 53.1 |
| 40 | 2 4.8 | 2 14.7 | 2 24.6 | 2 34.4 | 2 44.3 | 2 54.1 | 3 4.0 | 3 13.8 | 3 23.7 | 3 33.6 | 3 43.4 | 3 53.3 |
| 41 | 2 5.0 | 2 14.9 | 2 24.7 | 2 34.6 | 2 44.4 | 2 54.3 | 3 4.2 | 3 14.0 | 3 23.9 | 3 33.7 | 3 43.6 | 3 53.4 |
| 42 | 2 5.2 | 2 15.0 | 2 24.9 | 2 34.7 | 2 44.6 | 2 54.5 | 3 4.3 | 3 14.2 | 3 24.0 | 3 33.9 | 3 43.7 | 3 53.6 |
| 43 | 2 5.3 | 2 15.2 | 2 25.1 | 2 34.9 | 2 44.8 | 2 54.6 | 3 4.5 | 3 14.3 | 3 24.2 | 3 34.0 | 3 43.9 | 3 53.8 |
| 44 | 2 5.5 | 2 15.4 | 2 25.2 | 2 35.1 | 2 44.9 | 2 54.8 | 3 4.6 | 3 14.5 | 3 24.4 | 3 34.2 | 3 44.1 | 3 53.9 |
| 45 | 2 5.7 | 2 15.5 | 2 25.4 | 2 35.2 | 2 45.1 | 2 55.0 | 3 4.8 | 3 14.7 | 3 24.5 | 3 34.4 | 3 44.2 | 3 54.1 |
| 46 | 2 5.8 | 2 15.7 | 2 25.5 | 2 35.4 | 2 45.3 | 2 55.1 | 3 5.0 | 3 14.8 | 3 24.7 | 3 34.5 | 3 44.4 | 3 54.3 |
| 47 | 2 6.0 | 2 15.9 | 2 25.7 | 2 35.6 | 2 45.4 | 2 55.3 | 3 5.1 | 3 15.0 | 3 24.8 | 3 34.7 | 3 44.6 | 3 54.4 |
| 48 | 2 6.2 | 2 16.0 | 2 25.9 | 2 35.7 | 2 45.6 | 2 55.4 | 3 5.3 | 3 15.2 | 3 25.0 | 3 34.9 | 3 44.7 | 3 54.6 |
| 49 | 2 6.3 | 2 16.2 | 2 26.0 | 2 35.9 | 2 45.8 | 2 55.6 | 3 5.5 | 3 15.3 | 3 25.2 | 3 35.0 | 3 44.9 | 3 54.7 |
| 50 | 2 6.5 | 2 16.3 | 2 26.2 | 2 36.1 | 2 45.9 | 2 55.8 | 3 5.6 | 3 15.5 | 3 25.3 | 3 35.2 | 3 45.1 | 3 54.9 |
| 51 | 2 6.7 | 2 16.5 | 2 26.4 | 2 36.2 | 2 46.1 | 2 55.9 | 3 5.8 | 3 15.7 | 3 25.5 | 3 35.4 | 3 45.2 | 3 55.1 |
| 52 | 2 6.8 | 2 16.7 | 2 26.5 | 2 36.4 | 2 46.2 | 2 56.1 | 3 6.0 | 3 15.8 | 3 25.7 | 3 35.5 | 3 45.4 | 3 55.2 |
| 53 | 2 7.0 | 2 16.8 | 2 26.7 | 2 36.6 | 2 46.4 | 2 56.3 | 3 6.1 | 3 16.0 | 3 25.8 | 3 35.7 | 3 45.5 | 3 55.4 |
| 54 | 2 7.1 | 2 17.0 | 2 26.9 | 2 36.7 | 2 46.6 | 2 56.4 | 3 6.3 | 3 16.1 | 3 26.0 | 3 35.9 | 3 45.7 | 3 55.6 |
| 55 | 2 7.3 | 2 17.2 | 2 27.0 | 2 36.9 | 2 46.7 | 2 56.6 | 3 6.5 | 3 16.3 | 3 26.2 | 3 36.0 | 3 45.9 | 3 55.7 |
| 56 | 2 7.5 | 2 17.3 | 2 27.2 | 2 37.0 | 2 46.9 | 2 56.8 | 3 6.6 | 3 16.5 | 3 26.3 | 3 36.2 | 3 46.0 | 3 55.9 |
| 57 | 2 7.6 | 2 17.5 | 2 27.4 | 2 37.2 | 2 47.1 | 2 56.9 | 3 6.8 | 3 16.6 | 3 26.5 | 3 36.4 | 3 46.2 | 3 56.1 |
| 58 | 2 7.8 | 2 17.7 | 2 27.5 | 2 37.4 | 2 47.2 | 2 57.1 | 3 6.9 | 3 16.8 | 3 26.7 | 3 36.5 | 3 46.4 | 3 56.2 |
| 59 | 2 8.0 | 2 17.8 | 2 27.7 | 2 37.5 | 2 47.4 | 2 57.3 | 3 7.1 | 3 17.0 | 3 26.8 | 3 36.7 | 3 46.5 | 3 56.4 |

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|----------|----|------|-------|----|------|-------|----|------|-----|----|------|------|----|------|
| | January | | | February | | | March | | | April | | | May | | | June | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 6 | 39 | 12.5 | 8 | 41 | 25.8 | 10 | 31 | 49.3 | 12 | 34 | 2.5 | 14 | 32 | 19.1 | 16 | 34 | 32.3 |
| 2 | 6 | 43 | 9.0 | 8 | 45 | 22.3 | 10 | 35 | 45.9 | 12 | 37 | 59.0 | 14 | 36 | 15.7 | 16 | 38 | 28.9 |
| 3 | 6 | 47 | 5.6 | 8 | 49 | 18.9 | 10 | 39 | 42.4 | 12 | 41 | 55.6 | 14 | 40 | 12.2 | 16 | 42 | 25.5 |
| 4 | 6 | 51 | 2.2 | 8 | 53 | 15.5 | 10 | 43 | 39.0 | 12 | 45 | 52.1 | 14 | 44 | 8.8 | 16 | 46 | 22.0 |
| 5 | 6 | 54 | 58.7 | 8 | 57 | 12.0 | 10 | 47 | 35.6 | 12 | 49 | 48.7 | 14 | 48 | 5.3 | 16 | 50 | 18.6 |
| 6 | 6 | 58 | 55.3 | 9 | 1 | 8.6 | 10 | 51 | 32.1 | 12 | 53 | 45.2 | 14 | 52 | 1.9 | 16 | 54 | 15.1 |
| 7 | 7 | 2 | 51.8 | 9 | 5 | 51 | 10 | 55 | 28.7 | 12 | 57 | 41.8 | 14 | 55 | 58.4 | 16 | 58 | 11.7 |
| 8 | 7 | 6 | 48.4 | 9 | 9 | 1.7 | 10 | 59 | 25.2 | 13 | 1 | 38.3 | 14 | 59 | 55.0 | 17 | 2 | 8.3 |
| 9 | 7 | 10 | 45.0 | 9 | 12 | 58.2 | 11 | 3 | 21.8 | 13 | 5 | 34.9 | 15 | 3 | 51.5 | 17 | 6 | 4.8 |
| 10 | 7 | 14 | 41.5 | 9 | 16 | 54.8 | 11 | 7 | 18.3 | 13 | 9 | 31.4 | 15 | 7 | 48.1 | 17 | 10 | 1.4 |
| 11 | 7 | 18 | 38.1 | 9 | 20 | 51.3 | 11 | 11 | 14.9 | 13 | 13 | 28.0 | 15 | 11 | 44.7 | 17 | 13 | 57.9 |
| 12 | 7 | 22 | 34.6 | 9 | 24 | 47.9 | 11 | 15 | 11.4 | 13 | 17 | 24.6 | 15 | 15 | 41.2 | 17 | 17 | 54.5 |
| 13 | 7 | 26 | 31.2 | 9 | 28 | 44.4 | 11 | 19 | 8.0 | 13 | 21 | 21.1 | 15 | 19 | 37.8 | 17 | 21 | 51.0 |
| 14 | 7 | 30 | 27.8 | 9 | 32 | 41.0 | 11 | 23 | 4.5 | 13 | 25 | 17.7 | 15 | 23 | 34.3 | 17 | 25 | 47.6 |
| 15 | 7 | 34 | 24.3 | 9 | 36 | 37.6 | 11 | 27 | 1.1 | 13 | 29 | 14.2 | 15 | 27 | 30.9 | 17 | 29 | 44.2 |
| 16 | 7 | 38 | 20.9 | 9 | 40 | 34.1 | 11 | 30 | 57.6 | 13 | 33 | 10.8 | 15 | 31 | 27.4 | 17 | 33 | 40.7 |
| 17 | 7 | 42 | 17.4 | 9 | 44 | 30.7 | 11 | 34 | 54.2 | 13 | 37 | 7.3 | 15 | 35 | 24.0 | 17 | 37 | 37.3 |
| 18 | 7 | 46 | 14.0 | 9 | 48 | 27.2 | 11 | 38 | 50.7 | 13 | 41 | 3.9 | 15 | 39 | 20.5 | 17 | 41 | 33.8 |
| 19 | 7 | 50 | 10.5 | 9 | 52 | 23.8 | 11 | 42 | 47.3 | 13 | 45 | 0.4 | 15 | 43 | 17.1 | 17 | 45 | 30.4 |
| 20 | 7 | 54 | 7.1 | 9 | 56 | 20.3 | 11 | 46 | 43.8 | 13 | 48 | 57.0 | 15 | 47 | 13.7 | 17 | 49 | 27.0 |
| 21 | 7 | 58 | 3.7 | 10 | 0 | 16.9 | 11 | 50 | 40.4 | 13 | 52 | 53.5 | 15 | 51 | 10.2 | 17 | 53 | 23.5 |
| 22 | 8 | 2 | 0.2 | 10 | 4 | 13.4 | 11 | 54 | 36.9 | 13 | 56 | 50.1 | 15 | 55 | 6.8 | 17 | 57 | 20.1 |
| 23 | 8 | 5 | 56.8 | 10 | 8 | 10.0 | 11 | 58 | 33.5 | 14 | 0 | 46.6 | 15 | 59 | 3.3 | 18 | 1 | 16.6 |
| 24 | 8 | 9 | 53.3 | 10 | 12 | 6.5 | 12 | 2 | 30.0 | 14 | 4 | 43.2 | 16 | 2 | 59.9 | 18 | 5 | 13.2 |
| 25 | 8 | 13 | 49.9 | 10 | 16 | 3.1 | 12 | 6 | 26.6 | 14 | 8 | 39.8 | 16 | 6 | 56.5 | 18 | 9 | 9.8 |
| 26 | 8 | 17 | 46.4 | 10 | 19 | 59.6 | 12 | 10 | 23.1 | 14 | 12 | 36.3 | 16 | 10 | 53.0 | 18 | 13 | 6.3 |
| 27 | 8 | 21 | 43.0 | 10 | 23 | 56.2 | 12 | 14 | 19.7 | 14 | 16 | 32.9 | 16 | 14 | 49.6 | 18 | 17 | 2.9 |
| 28 | 8 | 25 | 39.5 | 10 | 27 | 52.8 | 12 | 18 | 16.2 | 14 | 20 | 29.4 | 16 | 18 | 46.1 | 18 | 20 | 59.4 |
| 29 | 8 | 29 | 36.1 | 10 | 31 | 49.3 | 12 | 22 | 12.8 | 14 | 24 | 26.0 | 16 | 22 | 42.7 | 18 | 24 | 56.0 |
| 30 | 8 | 33 | 32.7 | 10 | 35 | 45.9 | 12 | 26 | 9.4 | 14 | 28 | 22.6 | 16 | 26 | 39.2 | 18 | 28 | 52.5 |
| 31 | 8 | 37 | 29.2 | 10 | 39 | 42.4 | 12 | 30 | 5.9 | 14 | 32 | 19.1 | 16 | 30 | 35.8 | 18 | 32 | 49.1 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | | | | | | | | | | | | | |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|------|---|------|---|------|---|------|---|------|---|------|---|------|
| | m | m | s | m | m | s | m | m | s | m | m | s | m | m | s | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 9.9 | 0 | 19.7 | 0 | 29.6 | 0 | 39.4 | 0 | 49.3 | 0 | 59.1 | 1 | 9.0 | 1 | 18.9 | 1 | 28.7 | 1 | 38.6 | 1 | 48.4 |
| 5 | 0 | 0 | 8 | 0 | 10.7 | 0 | 20.5 | 0 | 30.4 | 0 | 40.2 | 0 | 50.1 | 1 | 0.0 | 1 | 9.8 | 1 | 19.7 | 1 | 29.5 | 1 | 39.4 | 1 | 49.2 |
| 10 | 0 | 1 | 6 | 0 | 11.5 | 0 | 21.4 | 0 | 31.2 | 0 | 41.1 | 0 | 50.9 | 1 | 0.8 | 1 | 10.6 | 1 | 20.5 | 1 | 30.4 | 1 | 40.2 | 1 | 50.1 |
| 15 | 0 | 2 | 5 | 0 | 12.3 | 0 | 22.2 | 0 | 32.0 | 0 | 41.9 | 0 | 51.7 | 1 | 1.6 | 1 | 11.5 | 1 | 21.3 | 1 | 31.2 | 1 | 41.0 | 1 | 50.9 |
| 20 | 0 | 3 | 3 | 0 | 13.1 | 0 | 23.0 | 0 | 32.9 | 0 | 42.7 | 0 | 52.6 | 1 | 2.4 | 1 | 12.3 | 1 | 22.1 | 1 | 32.0 | 1 | 41.8 | 1 | 51.7 |
| 25 | 0 | 4 | 1 | 0 | 14.0 | 0 | 23.8 | 0 | 33.7 | 0 | 43.5 | 0 | 53.4 | 1 | 3.2 | 1 | 13.1 | 1 | 23.0 | 1 | 32.8 | 1 | 42.7 | 1 | 52.5 |
| 30 | 0 | 4 | 9 | 0 | 14.8 | 0 | 24.6 | 0 | 34.5 | 0 | 44.4 | 0 | 54.2 | 1 | 4.1 | 1 | 13.9 | 1 | 23.8 | 1 | 33.6 | 1 | 43.5 | 1 | 53.3 |
| 35 | 0 | 5 | 8 | 0 | 15.6 | 0 | 25.5 | 0 | 35.3 | 0 | 45.2 | 0 | 55.0 | 1 | 4.9 | 1 | 14.7 | 1 | 24.6 | 1 | 34.5 | 1 | 44.3 | 1 | 54.2 |
| 40 | 0 | 6 | 6 | 0 | 16.4 | 0 | 26.3 | 0 | 36.1 | 0 | 46.0 | 0 | 55.9 | 1 | 5.7 | 1 | 15.6 | 1 | 25.4 | 1 | 35.3 | 1 | 45.1 | 1 | 55.0 |
| 45 | 0 | 7 | 4 | 0 | 17.2 | 0 | 27.1 | 0 | 37.0 | 0 | 46.8 | 0 | 56.7 | 1 | 6.5 | 1 | 16.4 | 1 | 26.2 | 1 | 36.1 | 1 | 46.0 | 1 | 55.8 |
| 50 | 0 | 8 | 2 | 0 | 18.1 | 0 | 27.9 | 0 | 37.8 | 0 | 47.6 | 0 | 57.5 | 1 | 7.4 | 1 | 17.2 | 1 | 27.1 | 1 | 36.9 | 1 | 46.8 | 1 | 56.6 |
| 55 | 0 | 9 | 0 | 0 | 18.9 | 0 | 28.7 | 0 | 38.6 | 0 | 48.5 | 0 | 58.3 | 1 | 8.2 | 1 | 18.0 | 1 | 27.9 | 1 | 37.7 | 1 | 47.6 | 1 | 57.5 |
| 60 | 0 | 9 | 9 | 0 | 19.7 | 0 | 29.6 | 0 | 39.4 | 0 | 49.3 | 0 | 59.1 | 1 | 9.0 | 1 | 18.9 | 1 | 28.7 | 1 | 38.6 | 1 | 48.4 | 1 | 58.3 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S. + 12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|--------|----|------|-----------|----|------|---------|----|------|----------|----|------|----------|----|------|
| | July | | | August | | | September | | | October | | | November | | | December | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 18 | 32 | 49.1 | 20 | 35 | 2.4 | 22 | 37 | 15.6 | 0 | 35 | 32.2 | 2 | 37 | 45.3 | 4 | 36 | 2.1 |
| 2 | 18 | 36 | 45.6 | 20 | 38 | 58.9 | 22 | 41 | 12.1 | 0 | 39 | 28.7 | 2 | 41 | 41.9 | 4 | 39 | 58.6 |
| 3 | 18 | 40 | 42.2 | 20 | 42 | 55.5 | 22 | 45 | 8.7 | 0 | 43 | 25.3 | 2 | 45 | 38.5 | 4 | 43 | 55.2 |
| 4 | 18 | 44 | 38.8 | 20 | 46 | 52.0 | 22 | 49 | 5.2 | 0 | 47 | 21.8 | 2 | 49 | 35.0 | 4 | 47 | 51.7 |
| 5 | 18 | 48 | 35.3 | 20 | 50 | 48.6 | 22 | 53 | 1.8 | 0 | 51 | 18.4 | 2 | 53 | 31.6 | 4 | 51 | 48.3 |
| 6 | 18 | 52 | 31.9 | 20 | 54 | 45.2 | 22 | 56 | 58.3 | 0 | 55 | 14.9 | 2 | 57 | 28.1 | 4 | 55 | 44.9 |
| 7 | 18 | 56 | 28.4 | 20 | 58 | 41.7 | 23 | 0 | 54.9 | 0 | 59 | 11.5 | 3 | 1 | 24.7 | 4 | 59 | 41.4 |
| 8 | 19 | 0 | 25.0 | 21 | 2 | 38.3 | 23 | 4 | 51.4 | 1 | 3 | 8.1 | 3 | 5 | 21.3 | 5 | 3 | 38.0 |
| 9 | 19 | 4 | 21.6 | 21 | 6 | 34.8 | 23 | 8 | 48.0 | 1 | 7 | 4.6 | 3 | 9 | 17.8 | 5 | 7 | 34.5 |
| 10 | 19 | 8 | 18.1 | 21 | 10 | 31.4 | 23 | 12 | 44.6 | 1 | 11 | 1.2 | 3 | 13 | 14.4 | 5 | 11 | 31.1 |
| 11 | 19 | 12 | 14.7 | 21 | 14 | 27.9 | 23 | 16 | 41.1 | 1 | 14 | 57.7 | 3 | 17 | 10.9 | 5 | 15 | 27.6 |
| 12 | 19 | 16 | 11.2 | 21 | 18 | 24.5 | 23 | 20 | 37.7 | 1 | 18 | 54.3 | 3 | 21 | 7.5 | 5 | 19 | 24.2 |
| 13 | 19 | 20 | 7.8 | 21 | 22 | 21.0 | 23 | 24 | 34.2 | 1 | 22 | 50.8 | 3 | 25 | 4.0 | 5 | 23 | 20.8 |
| 14 | 19 | 24 | 4.3 | 21 | 26 | 17.6 | 23 | 28 | 30.8 | 1 | 26 | 47.4 | 3 | 29 | 0.6 | 5 | 27 | 17.3 |
| 15 | 19 | 28 | 0.9 | 21 | 30 | 14.2 | 23 | 32 | 27.3 | 1 | 30 | 43.9 | 3 | 32 | 57.1 | 5 | 31 | 13.9 |
| 16 | 19 | 31 | 57.4 | 21 | 34 | 10.7 | 23 | 36 | 23.9 | 1 | 34 | 40.5 | 3 | 36 | 53.7 | 5 | 35 | 10.4 |
| 17 | 19 | 35 | 54.0 | 21 | 38 | 7.3 | 23 | 40 | 20.4 | 1 | 38 | 37.0 | 3 | 40 | 50.3 | 5 | 39 | 7.0 |
| 18 | 19 | 39 | 50.6 | 21 | 42 | 3.8 | 23 | 44 | 17.0 | 1 | 42 | 33.6 | 3 | 44 | 46.8 | 5 | 43 | 3.6 |
| 19 | 19 | 43 | 47.1 | 21 | 46 | 0.4 | 23 | 48 | 13.5 | 1 | 46 | 30.1 | 3 | 48 | 43.4 | 5 | 47 | 0.1 |
| 20 | 19 | 47 | 43.7 | 21 | 49 | 56.9 | 23 | 52 | 10.1 | 1 | 50 | 26.7 | 3 | 52 | 39.9 | 5 | 50 | 56.7 |
| 21 | 19 | 51 | 40.2 | 21 | 53 | 53.5 | 23 | 56 | 6.6 | 1 | 54 | 23.3 | 3 | 56 | 36.5 | 5 | 54 | 53.2 |
| 22 | 19 | 55 | 36.8 | 21 | 57 | 50.0 | 0 | 0 | 3.2 | 1 | 58 | 19.8 | 4 | 0 | 33.0 | 5 | 58 | 49.8 |
| 23 | 19 | 59 | 33.4 | 22 | 1 | 46.6 | 0 | 3 | 59.8 | 2 | 2 | 16.4 | 4 | 4 | 29.6 | 6 | 2 | 46.4 |
| 24 | 20 | 3 | 29.9 | 22 | 5 | 43.1 | 0 | 7 | 56.3 | 2 | 6 | 12.9 | 4 | 8 | 26.1 | 6 | 6 | 42.9 |
| 25 | 20 | 7 | 26.5 | 22 | 9 | 39.7 | 0 | 11 | 52.9 | 2 | 10 | 9.5 | 4 | 12 | 22.7 | 6 | 10 | 39.5 |
| 26 | 20 | 11 | 23.0 | 22 | 13 | 36.3 | 0 | 15 | 49.4 | 2 | 14 | 6.0 | 4 | 16 | 19.3 | 6 | 14 | 36.0 |
| 27 | 20 | 15 | 19.6 | 22 | 17 | 32.8 | 0 | 19 | 46.0 | 2 | 18 | 2.6 | 4 | 20 | 15.8 | 6 | 18 | 32.6 |
| 28 | 20 | 19 | 16.1 | 22 | 21 | 29.4 | 0 | 23 | 42.5 | 2 | 21 | 59.1 | 4 | 24 | 12.4 | 6 | 22 | 29.2 |
| 29 | 20 | 23 | 12.7 | 22 | 25 | 25.9 | 0 | 27 | 39.1 | 2 | 25 | 55.7 | 4 | 28 | 8.9 | 6 | 26 | 25.7 |
| 30 | 20 | 27 | 9.3 | 22 | 29 | 22.5 | 0 | 31 | 35.6 | 2 | 29 | 52.2 | 4 | 32 | 5.5 | 6 | 30 | 22.3 |
| 31 | 20 | 31 | 5.8 | 22 | 33 | 19.0 | 0 | 35 | 32.2 | 2 | 33 | 48.8 | 4 | 36 | 2.1 | 6 | 34 | 18.8 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longi- tude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|------|---|------|---|------|---|------|---|------|---|------|
| 0 | m | m | s | m | m | s | m | m | s | m | m | s | m | s | | | | | | | | | | |
| 0 | 1 | 58.3 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 3 | 7.8 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 | | |
| 5 | 1 | 59.1 | 2 | 9.0 | 2 | 18.8 | 2 | 28.7 | 2 | 38.5 | 2 | 48.4 | 3 | 58.2 | 3 | 8.1 | 3 | 18.0 | 3 | 27.8 | 3 | 37.7 | 3 | 47.5 |
| 10 | 1 | 59.9 | 2 | 9.8 | 2 | 19.6 | 2 | 29.5 | 2 | 39.3 | 2 | 49.2 | 3 | 59.1 | 3 | 8.9 | 3 | 18.8 | 3 | 28.6 | 3 | 38.5 | 3 | 48.3 |
| 15 | 2 | 0.7 | 2 | 10.6 | 2 | 20.5 | 2 | 30.3 | 2 | 40.2 | 2 | 50.0 | 3 | 59.9 | 3 | 9.7 | 3 | 19.6 | 3 | 29.4 | 3 | 39.3 | 3 | 49.2 |
| 20 | 2 | 1.6 | 2 | 11.4 | 2 | 21.3 | 2 | 31.1 | 2 | 41.0 | 2 | 50.8 | 3 | 0.7 | 3 | 10.6 | 3 | 20.4 | 3 | 30.3 | 3 | 40.1 | 3 | 50.0 |
| 25 | 2 | 2.4 | 2 | 12.2 | 2 | 22.1 | 2 | 32.0 | 2 | 41.8 | 2 | 51.7 | 3 | 1.5 | 3 | 11.4 | 3 | 21.2 | 3 | 31.1 | 3 | 40.9 | 3 | 50.8 |
| 30 | 2 | 3.2 | 2 | 13.1 | 2 | 22.9 | 2 | 32.8 | 2 | 42.6 | 2 | 52.5 | 3 | 2.3 | 3 | 12.2 | 3 | 22.1 | 3 | 31.9 | 3 | 41.8 | 3 | 51.6 |
| 35 | 2 | 4.0 | 2 | 13.9 | 2 | 23.7 | 2 | 33.6 | 2 | 43.5 | 2 | 53.3 | 3 | 3.2 | 3 | 13.0 | 3 | 22.9 | 3 | 32.7 | 3 | 42.6 | 3 | 52.4 |
| 40 | 2 | 4.8 | 2 | 14.7 | 2 | 24.6 | 2 | 34.4 | 2 | 44.3 | 2 | 54.1 | 3 | 4.0 | 3 | 13.8 | 3 | 23.7 | 3 | 33.6 | 3 | 43.4 | 3 | 53.3 |
| 45 | 2 | 5.7 | 2 | 15.5 | 2 | 25.4 | 2 | 35.2 | 2 | 45.1 | 2 | 55.0 | 3 | 4.8 | 3 | 14.7 | 3 | 24.5 | 3 | 34.4 | 3 | 44.2 | 3 | 54.1 |
| 50 | 2 | 6.5 | 2 | 16.3 | 2 | 26.2 | 2 | 36.1 | 2 | 45.9 | 2 | 55.8 | 3 | 5.6 | 3 | 15.5 | 3 | 25.3 | 3 | 35.2 | 3 | 45.1 | 3 | 54.9 |
| 55 | 2 | 7.3 | 2 | 17.2 | 2 | 27.0 | 2 | 36.9 | 2 | 46.7 | 2 | 56.6 | 3 | 6.5 | 3 | 16.3 | 3 | 26.2 | 3 | 36.0 | 3 | 45.9 | 3 | 55.7 |
| 60 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | 3 | 7.3 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 | 3 | 56.6 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

SUN, JANUARY 1947

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. |
|-------------|------------------|-------------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|
| Wednesday 1 | | | | | | | | | |
| b | m s | ° ' | ° ' | m s | ° ' | ° ' | m s | ° ' | ° ' |
| 0 | -3 8.3 | -23 5.4 | 179 12.9 | -5 0.1 | -22 43.8 | 178 45.0 | -6 45.2 | -22 15.1 | 178 18.7 |
| 2 | 3 10.7 | 23 5.0 | 209 12.3 | 5 2.4 | 22 43.3 | 208 44.4 | 6 47.3 | 22 14.4 | 208 18.2 |
| 4 | 3 13.1 | 23 4.6 | 239 11.7 | 5 4.6 | 22 42.8 | 238 43.8 | 6 49.4 | 22 13.7 | 238 17.7 |
| 6 | 3 15.4 | 23 4.3 | 269 11.1 | 5 6.9 | 22 42.3 | 268 43.3 | 6 51.5 | 22 13.1 | 268 17.1 |
| 8 | 3 17.8 | 23 3.9 | 299 10.5 | 5 9.1 | 22 41.7 | 298 42.7 | 6 53.6 | 22 12.4 | 298 16.6 |
| 10 | 3 20.2 | 23 3.5 | 329 10.0 | 5 11.4 | 22 41.2 | 328 42.2 | 6 55.7 | 22 11.7 | 328 16.1 |
| 12 | 3 22.6 | 23 3.1 | 359 9.4 | 5 13.6 | 22 40.6 | 358 41.6 | 6 57.8 | 22 11.0 | 358 15.6 |
| 14 | 3 24.9 | 23 2.7 | 29 8.8 | 5 15.9 | 22 40.1 | 28 41.0 | 6 59.9 | 22 10.3 | 28 15.0 |
| 16 | 3 27.3 | 23 2.3 | 59 8.2 | 5 18.1 | 22 39.5 | 58 40.5 | 7 1.9 | 22 9.6 | 58 14.5 |
| 18 | 3 29.7 | 23 1.9 | 89 7.6 | 5 20.3 | 22 39.0 | 88 39.9 | 7 4.0 | 22 8.9 | 88 14.0 |
| 20 | 3 32.0 | 23 1.5 | 119 7.0 | 5 22.6 | 22 38.4 | 118 39.4 | 7 6.1 | 22 8.2 | 118 13.5 |
| 22 | -3 34.4 | -23 1.1 | 149 6.4 | -5 24.8 | -22 37.9 | 148 38.8 | -7 8.2 | -22 7.5 | 148 13.0 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.3 | ... |
| Thursday 2 | | | | | | | | | |
| b | m s | ° ' | ° ' | m s | ° ' | ° ' | m s | ° ' | ° ' |
| 0 | -3 36.8 | -23 0.7 | 179 5.8 | -5 27.1 | -22 37.3 | 178 38.2 | -7 10.2 | -22 6.8 | 178 12.4 |
| 2 | 3 39.1 | 23 0.3 | 209 5.2 | 5 29.3 | 22 36.8 | 208 37.7 | 7 12.3 | 22 6.1 | 208 11.9 |
| 4 | 3 41.5 | 22 59.9 | 239 4.6 | 5 31.5 | 22 36.2 | 238 37.1 | 7 14.4 | 22 5.4 | 238 11.4 |
| 6 | 3 43.8 | 22 59.5 | 269 4.0 | 5 33.7 | 22 35.6 | 268 36.6 | 7 16.4 | 22 4.7 | 268 10.9 |
| 8 | 3 46.2 | 22 59.0 | 299 3.5 | 5 35.9 | 22 35.0 | 298 36.0 | 7 18.5 | 22 3.9 | 298 10.4 |
| 10 | 3 48.5 | 22 58.6 | 329 2.9 | 5 38.1 | 22 34.5 | 328 35.5 | 7 20.5 | 22 3.2 | 328 9.9 |
| 12 | 3 50.9 | 22 58.2 | 359 2.3 | 5 40.4 | 22 33.9 | 358 34.9 | 7 22.6 | 22 2.5 | 358 9.4 |
| 14 | 3 53.2 | 22 57.7 | 29 1.7 | 5 42.6 | 22 33.3 | 28 34.4 | 7 24.6 | 22 1.8 | 28 8.9 |
| 16 | 3 55.6 | 22 57.3 | 59 1.1 | 5 44.8 | 22 32.7 | 58 33.8 | 7 26.6 | 22 1.0 | 58 8.3 |
| 18 | 3 57.9 | 22 56.9 | 89 0.5 | 5 47.0 | 22 32.1 | 88 33.3 | 7 28.7 | 22 0.3 | 88 7.8 |
| 20 | 4 0.3 | 22 56.4 | 118 59.9 | 5 49.2 | 22 31.5 | 118 32.7 | 7 30.7 | 21 59.6 | 118 7.3 |
| 22 | -4 2.6 | -22 56.0 | 148 59.4 | -5 51.4 | -22 31.0 | 148 32.2 | -7 32.7 | -21 58.8 | 148 6.8 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Friday 3 | | | | | | | | | |
| b | m s | ° ' | ° ' | m s | ° ' | ° ' | m s | ° ' | ° ' |
| 0 | -4 4.9 | -22 55.5 | 178 58.8 | -5 53.6 | -22 30.4 | 178 31.6 | -7 34.8 | -21 58.1 | 178 6.3 |
| 2 | 4 7.3 | 22 55.1 | 208 58.2 | 5 55.8 | 22 29.8 | 208 31.1 | 7 36.8 | 21 57.3 | 208 5.8 |
| 4 | 4 9.6 | 22 54.6 | 238 57.6 | 5 57.9 | 22 29.2 | 238 30.5 | 7 38.8 | 21 56.6 | 238 5.3 |
| 6 | 4 11.9 | 22 54.2 | 268 57.0 | 6 0.1 | 22 28.5 | 268 30.0 | 7 40.8 | 21 55.8 | 268 4.8 |
| 8 | 4 14.2 | 22 53.7 | 298 56.4 | 6 2.3 | 22 27.9 | 298 29.4 | 7 42.8 | 21 55.1 | 298 4.3 |
| 10 | 4 16.5 | 22 53.2 | 328 55.9 | 6 4.5 | 22 27.3 | 328 28.9 | 7 44.8 | 21 54.3 | 328 3.8 |
| 12 | 4 18.9 | 22 52.8 | 358 55.3 | 6 6.6 | 22 26.7 | 358 28.3 | 7 46.8 | 21 53.6 | 358 3.3 |
| 14 | 4 21.2 | 22 52.3 | 28 54.7 | 6 8.8 | 22 26.1 | 28 27.8 | 7 48.8 | 21 52.8 | 28 2.8 |
| 16 | 4 23.5 | 22 51.8 | 58 54.1 | 6 11.0 | 22 25.5 | 58 27.3 | 7 50.8 | 21 52.0 | 58 2.3 |
| 18 | 4 25.8 | 22 51.4 | 88 53.6 | 6 13.1 | 22 24.8 | 88 26.7 | 7 52.8 | 21 51.3 | 88 1.8 |
| 20 | 4 28.1 | 22 50.9 | 118 53.0 | 6 15.3 | 22 24.2 | 118 26.2 | 7 54.8 | 21 50.5 | 118 1.3 |
| 22 | -4 30.4 | -22 50.4 | 148 52.4 | -6 17.5 | -22 23.6 | 148 25.6 | -7 56.8 | -21 49.7 | 148 0.8 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Saturday 4 | | | | | | | | | |
| b | m s | ° ' | ° ' | m s | ° ' | ° ' | m s | ° ' | ° ' |
| 0 | -4 32.7 | -22 49.9 | 178 51.8 | -6 19.6 | -22 22.9 | 178 25.1 | -7 58.7 | -21 48.9 | 178 0.3 |
| 2 | 4 35.0 | 22 49.4 | 208 51.3 | 6 21.8 | 22 22.3 | 208 24.6 | 8 0.7 | 21 48.2 | 207 59.8 |
| 4 | 4 37.3 | 22 48.9 | 238 50.7 | 6 23.9 | 22 21.7 | 238 24.0 | 8 2.7 | 21 47.4 | 237 59.3 |
| 6 | 4 39.6 | 22 48.4 | 268 50.1 | 6 26.1 | 22 21.0 | 268 23.5 | 8 4.6 | 21 46.6 | 267 58.8 |
| 8 | 4 41.9 | 22 47.9 | 298 49.5 | 6 28.2 | 22 20.4 | 298 23.0 | 8 6.6 | 21 45.8 | 297 58.3 |
| 10 | 4 44.2 | 22 47.4 | 328 49.0 | 6 30.3 | 22 19.7 | 328 22.4 | 8 8.6 | 21 45.0 | 327 57.9 |
| 12 | 4 46.4 | 22 46.9 | 358 48.4 | 6 32.5 | 22 19.1 | 358 21.9 | 8 10.5 | 21 44.2 | 357 57.4 |
| 14 | 4 48.7 | 22 46.4 | 28 47.8 | 6 34.6 | 22 18.4 | 28 21.4 | 8 12.5 | 21 43.4 | 27 56.9 |
| 16 | 4 51.0 | 22 45.9 | 58 47.2 | 6 36.7 | 22 17.8 | 58 20.8 | 8 14.4 | 21 42.6 | 57 56.4 |
| 18 | 4 53.3 | 22 45.4 | 88 46.7 | 6 38.8 | 22 17.1 | 88 20.3 | 8 16.3 | 21 41.8 | 87 55.9 |
| 20 | 4 55.6 | 22 44.9 | 118 46.1 | 6 41.0 | 22 16.4 | 118 19.8 | 8 18.3 | 21 41.0 | 117 55.4 |
| 22 | -4 57.8 | -22 44.4 | 148 45.5 | -6 43.1 | -22 15.8 | 148 19.2 | -8 20.2 | -21 40.2 | 147 54.9 |
| H. D. | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Wednesday 8 | | | | | | | | | |
| b | m s | ° ' | ° ' | m s | ° ' | ° ' | m s | ° ' | ° ' |
| 0 | -5 0.1 | -22 43.8 | 178 45.0 | -6 45.2 | -22 15.1 | 178 18.7 | -7 58.7 | -21 48.9 | 178 0.3 |
| 2 | 5 2.4 | 22 43.3 | 208 44.4 | 6 47.3 | 22 14.4 | 208 18.2 | 8 0.7 | 21 48.2 | 207 59.8 |
| 4 | 5 4.6 | 22 42.8 | 238 43.8 | 6 49.4 | 22 13.7 | 238 17.7 | 8 2.7 | 21 47.4 | 237 59.3 |
| 6 | 5 6.9 | 22 42.3 | 268 43.3 | 6 51.5 | 22 13.1 | 268 17.1 | 8 4.6 | 21 46.6 | 267 58.8 |
| 8 | 5 9.1 | 22 41.7 | 298 42.7 | 6 53.6 | 22 12.4 | 298 16.6 | 8 6.6 | 21 45.8 | 297 58.3 |
| 10 | 5 11.4 | 22 41.2 | 328 42.2 | 6 55.7 | 22 11.7 | 328 16.1 | 8 8.6 | 21 45.0 | 327 57.9 |
| 12 | 5 13.6 | 22 40.6 | 358 41.6 | 6 57.8 | 22 11.0 | 358 15.6 | 8 10.5 | 21 44.2 | 357 57.4 |
| 14 | 5 15.9 | 22 40.1 | 28 41.0 | 6 59.9 | 22 10.3 | 28 15.0 | 8 12.5 | 21 43.4 | 27 56.9 |
| H. D. | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... | 1.0 | 0.4 | ... |
| Sunday 12 | | | | | | | | | |
| b | m s | ° ' | ° ' | m s | ° ' | ° ' | m s | ° ' | ° ' |
| 0 | -6 19.6 | -22 22.9 | 178 25.1 | -7 58.7 | -21 48.9 | 178 0.3 | -8 0.7 | -21 48.2 | 207 59.8 |
| 2 | 6 21.8 | 22 22.3 | 208 24.6 | 8 0.7 | 21 48.2 | 207 59.8 | 8 2.7 | 21 47.4 | 237 59.3 |
| 4 | 6 23.9 | 22 21.7 | 238 24.0 | 8 2.7 | 21 47.4 | 237 59.3 | 8 4.6 | 21 46.6 | 267 58.8 |
| 6 | 6 26.1 | 22 21.0 | 268 23.5 | 8 4.6 | 21 46.6 | 267 58.8 | 8 6.6 | 21 45.8 | 297 58.3 |
| 8 | 6 28.2 | 22 20.4 | 298 23.0 | 8 6.6 | 21 45.8 | 297 58.3 | 8 8.6 | 21 45.0 | 327 57.9 |
| 10 | 6 30.3 | 22 19.7 | 328 22.4 | 8 8.6 | 21 45.0 | 327 57.9 | 8 10.5 | 21 44.2 | 357 57.4 |
| 12 | 6 32.5 | 22 19.1 | 358 21.9 | 8 10.5 | 21 44.2 | 357 57.4 | 8 12.5 | 21 43.4 | 27 56.9 |
| 14 | 6 34.6 | 22 18.4 | 28 21.4 | 8 12.5 | 21 43.4 | 27 56.9 | 8 14.4 | 21 42.6 | 57 56.4 |
| 16 | 6 36.7 | 22 17.8 | 58 20.8 | 8 14.4 | 21 42.6 | 57 56.4 | 8 16.3 | 21 41.8 | 87 55.9 |
| 18 | 6 38.8 | 22 17.1 | 88 20.3 | 8 16.3 | 21 41.8 | 87 55.9 | 8 18.3 | 21 41.0 | 117 55.4 |
| 20 | 6 41.0 | 22 16.4 | 118 19.8 | 8 18.3 | 21 41.0 | 117 55.4 | 8 20.2 | 21 40.2 | 147 54.9 |
| 22 | -6 43.1 | -22 15.8 | 148 19.2 | -8 20.2 | -21 40.2 | 147 54.9 | 8 0.7 | -21 39.5 | 177 18.7 |
| H. D. | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... | 1.0 | 0.4 | ... |

NOTE.—The Equation of Time is to be applied to the G. C. T. in accordance with the sign as given.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|----------|----|------|-------|----|------|-------|----|------|-----|----|------|------|----|------|
| | January | | | February | | | March | | | April | | | May | | | June | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 6 | 40 | 9.7 | 8 | 42 | 23.0 | 10 | 32 | 46.5 | 12 | 34 | 59.7 | 14 | 33 | 16.3 | 16 | 35 | 29.5 |
| 2 | 6 | 44 | 6.3 | 8 | 46 | 19.6 | 10 | 36 | 43.1 | 12 | 38 | 56.2 | 14 | 37 | 12.8 | 16 | 39 | 26.1 |
| 3 | 6 | 48 | 2.8 | 8 | 50 | 16.1 | 10 | 40 | 39.6 | 12 | 42 | 52.8 | 14 | 41 | 9.4 | 16 | 43 | 22.6 |
| 4 | 6 | 51 | 59.4 | 8 | 54 | 12.7 | 10 | 44 | 36.2 | 12 | 46 | 49.3 | 14 | 45 | 5.9 | 16 | 47 | 19.2 |
| 5 | 6 | 55 | 56.0 | 8 | 58 | 9.2 | 10 | 48 | 32.7 | 12 | 50 | 45.9 | 14 | 49 | 2.5 | 16 | 51 | 15.8 |
| 6 | 6 | 59 | 52.5 | 9 | 2 | 5.8 | 10 | 52 | 29.3 | 12 | 54 | 42.4 | 14 | 52 | 59.1 | 16 | 55 | 12.3 |
| 7 | 7 | 3 | 49.1 | 9 | 6 | 2.3 | 10 | 56 | 25.8 | 12 | 58 | 39.0 | 14 | 56 | 55.6 | 16 | 59 | 8.9 |
| 8 | 7 | 7 | 45.6 | 9 | 9 | 58.9 | 11 | 0 | 22.4 | 13 | 2 | 35.5 | 15 | 0 | 52.2 | 17 | 3 | 5.4 |
| 9 | 7 | 11 | 42.2 | 9 | 13 | 55.4 | 11 | 4 | 18.9 | 13 | 6 | 32.1 | 15 | 4 | 48.7 | 17 | 7 | 2.0 |
| 10 | 7 | 15 | 38.7 | 9 | 17 | 52.0 | 11 | 8 | 15.5 | 13 | 10 | 28.7 | 15 | 8 | 45.3 | 17 | 10 | 58.5 |
| 11 | 7 | 19 | 35.3 | 9 | 21 | 48.5 | 11 | 12 | 12.1 | 13 | 14 | 25.2 | 15 | 12 | 41.8 | 17 | 14 | 55.1 |
| 12 | 7 | 23 | 31.9 | 9 | 25 | 45.1 | 11 | 16 | 8.6 | 13 | 18 | 21.8 | 15 | 16 | 38.4 | 17 | 18 | 51.7 |
| 13 | 7 | 27 | 28.4 | 9 | 29 | 41.7 | 11 | 20 | 5.2 | 13 | 22 | 18.3 | 15 | 20 | 34.9 | 17 | 22 | 48.2 |
| 14 | 7 | 31 | 25.0 | 9 | 33 | 38.2 | 11 | 24 | 1.7 | 13 | 26 | 14.9 | 15 | 24 | 31.5 | 17 | 26 | 44.8 |
| 15 | 7 | 35 | 21.5 | 9 | 37 | 34.8 | 11 | 27 | 58.3 | 13 | 30 | 11.4 | 15 | 28 | 28.0 | 17 | 30 | 41.3 |
| 16 | 7 | 39 | 18.1 | 9 | 41 | 31.3 | 11 | 31 | 54.8 | 13 | 34 | 8.0 | 15 | 32 | 24.6 | 17 | 34 | 37.9 |
| 17 | 7 | 43 | 14.7 | 9 | 45 | 27.9 | 11 | 35 | 51.4 | 13 | 38 | 4.5 | 15 | 36 | 21.2 | 17 | 38 | 34.5 |
| 18 | 7 | 47 | 11.2 | 9 | 49 | 24.4 | 11 | 39 | 47.9 | 13 | 42 | 1.1 | 15 | 40 | 17.7 | 17 | 42 | 31.0 |
| 19 | 7 | 51 | 7.8 | 9 | 53 | 21.0 | 11 | 43 | 44.5 | 13 | 45 | 57.6 | 15 | 44 | 14.3 | 17 | 46 | 27.6 |
| 20 | 7 | 55 | 4.3 | 9 | 57 | 17.5 | 11 | 47 | 41.0 | 13 | 49 | 54.2 | 15 | 48 | 10.8 | 17 | 50 | 24.1 |
| 21 | 7 | 59 | 0.9 | 10 | 1 | 14.1 | 11 | 51 | 37.6 | 13 | 53 | 50.7 | 15 | 52 | 7.4 | 17 | 54 | 20.7 |
| 22 | 8 | 2 | 57.4 | 10 | 5 | 10.6 | 11 | 55 | 34.1 | 13 | 57 | 47.3 | 15 | 56 | 4.0 | 17 | 58 | 17.2 |
| 23 | 8 | 6 | 54.0 | 10 | 9 | 7.2 | 11 | 59 | 30.7 | 14 | 1 | 43.8 | 16 | 0 | 0.5 | 18 | 2 | 13.8 |
| 24 | 8 | 10 | 50.5 | 10 | 13 | 3.7 | 12 | 3 | 27.2 | 14 | 5 | 40.4 | 16 | 3 | 57.1 | 18 | 6 | 10.3 |
| 25 | 8 | 14 | 47.1 | 10 | 17 | 0.3 | 12 | 7 | 23.8 | 14 | 9 | 37.0 | 16 | 7 | 53.6 | 18 | 10 | 6.9 |
| 26 | 8 | 18 | 43.6 | 10 | 20 | 56.9 | 12 | 11 | 20.3 | 14 | 13 | 33.5 | 16 | 11 | 50.2 | 18 | 14 | 3.5 |
| 27 | 8 | 22 | 40.2 | 10 | 24 | 53.4 | 12 | 15 | 16.9 | 14 | 17 | 30.1 | 16 | 15 | 46.7 | 18 | 18 | 0.0 |
| 28 | 8 | 26 | 36.8 | 10 | 28 | 50.0 | 12 | 19 | 13.5 | 14 | 21 | 26.6 | 16 | 19 | 43.3 | 18 | 21 | 56.6 |
| 29 | 8 | 30 | 33.3 | 10 | 32 | 46.5 | 12 | 23 | 10.0 | 14 | 25 | 23.2 | 16 | 23 | 39.8 | 18 | 25 | 53.1 |
| 30 | 8 | 34 | 29.9 | 10 | 36 | 43.1 | 12 | 27 | 6.6 | 14 | 29 | 19.7 | 16 | 27 | 36.4 | 18 | 29 | 49.7 |
| 31 | 8 | 38 | 26.4 | 10 | 40 | 39.6 | 12 | 31 | 3.1 | 14 | 33 | 16.3 | 16 | 31 | 33.0 | 18 | 33 | 46.3 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longi- tude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|---|------|---|------|---|------|
| | m | m | m | m | m | m | m | m | m | m | m | m | m | s | | | | |
| 0 | 0 | 0.0 | 0 | 9.9 | 0 | 19.7 | 0 | 29.6 | 0 | 39.4 | 0 | 49.3 | 0 | 59.1 | 1 | 9.0 | 1 | 18.9 |
| 5 | 0 | 0.8 | 0 | 10.7 | 0 | 20.5 | 0 | 30.4 | 0 | 40.2 | 0 | 50.1 | 1 | 0.0 | 1 | 9.8 | 1 | 19.7 |
| 10 | 0 | 1.6 | 0 | 11.5 | 0 | 21.4 | 0 | 31.2 | 0 | 41.1 | 0 | 50.9 | 1 | 0.8 | 1 | 10.6 | 1 | 20.5 |
| 15 | 0 | 2.5 | 0 | 12.3 | 0 | 22.2 | 0 | 32.0 | 0 | 41.9 | 0 | 51.7 | 1 | 1.6 | 1 | 11.5 | 1 | 21.3 |
| 20 | 0 | 3.3 | 0 | 13.1 | 0 | 23.0 | 0 | 32.9 | 0 | 42.7 | 0 | 52.6 | 1 | 2.4 | 1 | 12.3 | 1 | 22.1 |
| 25 | 0 | 4.1 | 0 | 14.0 | 0 | 23.8 | 0 | 33.7 | 0 | 43.5 | 0 | 53.4 | 1 | 3.2 | 1 | 13.1 | 1 | 23.0 |
| 30 | 0 | 4.9 | 0 | 14.8 | 0 | 24.6 | 0 | 34.5 | 0 | 44.4 | 0 | 54.2 | 1 | 4.1 | 1 | 13.9 | 1 | 23.8 |
| 35 | 0 | 5.8 | 0 | 15.6 | 0 | 25.5 | 0 | 35.3 | 0 | 45.2 | 0 | 55.0 | 1 | 4.9 | 1 | 14.7 | 1 | 24.6 |
| 40 | 0 | 6.6 | 0 | 16.4 | 0 | 26.3 | 0 | 36.1 | 0 | 46.0 | 0 | 55.9 | 1 | 5.7 | 1 | 15.6 | 1 | 25.4 |
| 45 | 0 | 7.4 | 0 | 17.2 | 0 | 27.1 | 0 | 37.0 | 0 | 46.8 | 0 | 56.7 | 1 | 6.5 | 1 | 16.4 | 1 | 26.2 |
| 50 | 0 | 8.2 | 0 | 18.1 | 0 | 27.9 | 0 | 37.8 | 0 | 47.6 | 0 | 57.5 | 1 | 7.4 | 1 | 17.2 | 1 | 27.1 |
| 55 | 0 | 9.0 | 0 | 18.9 | 0 | 28.7 | 0 | 38.6 | 0 | 48.5 | 0 | 58.3 | 1 | 8.2 | 1 | 18.0 | 1 | 27.9 |
| 60 | 0 | 9.9 | 0 | 19.7 | 0 | 29.6 | 0 | 39.4 | 0 | 49.3 | 0 | 59.1 | 1 | 9.0 | 1 | 18.9 | 1 | 28.7 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

SYMBOLS AND ABBREVIATIONS

SIGNS OF THE PLANETS, ETC.

| | | | |
|----------------|------------|----------------|----------|
| \odot | The Sun. | \mathfrak{A} | Jupiter. |
| \mathbb{C} | The Moon. | \mathfrak{b} | Saturn. |
| \mathfrak{x} | Mercury. | \mathfrak{d} | Uranus. |
| \mathfrak{y} | Venus. | \mathfrak{y} | Neptune. |
| \oplus | The Earth. | \mathfrak{p} | Pluto. |
| σ | Mars. | | |

SIGNS OF THE ZODIAC

| | | | |
|--------------------|---------|--------------------|--------------|
| 1. \mathfrak{T} | Aries. | 7. \mathfrak{L} | Libra. |
| 2. \mathfrak{S} | Taurus. | 8. \mathfrak{M} | Scorpius. |
| 3. \mathfrak{II} | Gemini. | 9. \mathfrak{F} | Sagittarius. |
| 4. \mathfrak{C} | Cancer. | 10. \mathfrak{B} | Capricornus. |
| 5. \mathfrak{L} | Leo. | 11. \mathfrak{A} | Aquarius. |
| 6. \mathfrak{V} | Virgo. | 12. \mathfrak{X} | Pisces. |

ASPECTS

- δ Conjunction, or having the same Longitude or Right Ascension.
- φ Opposition, or differing 180° in Longitude or Right Ascension.
- \square Quadrature, or having a geocentric angular distance of 90° .

ABBREVIATIONS

| | | | |
|----------|------------------|----------|------------------|
| Ω | Ascending Node. | $^\circ$ | Degrees. |
| Ω | Descending Node. | ' | Minutes of Arc. |
| N. | North. | " | Seconds of Arc. |
| S. | South. | h | Hours. |
| E. | East. | m | Minutes of Time. |
| W. | West. | s | Seconds of Time. |

GREEK ALPHABET

| | | | | | |
|---------------------|---------|--------------------------|---------|-------------------------|---------|
| A, α | Alpha | I, ι | Iota | P, ρ | Rho |
| B, β | Beta | K, κ | Kappa | Σ , σ | Sigma |
| Γ , γ | Gamma | Λ , λ | Lambda | T, τ | Tau |
| Δ , δ | Delta | M, μ | Mu | Υ , υ | Upsilon |
| E, ϵ | Epsilon | N, ν | Nu | Φ , ϕ | Phi |
| Z, ξ | Zeta | Ξ , ξ | Xi | X, χ | Chi |
| H, η | Eta | O, \circ | Omicron | Ψ , ψ | Psi |
| Θ , θ | Theta | Π , π , ϖ | Pi | Ω , ω | Omega |

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|--------|----|------|-----------|----|------|---------|----|------|----------|----|------|----------|----|------|
| | July | | | August | | | September | | | October | | | November | | | December | | |
| 1 | 18 | 33 | 46.3 | 20 | 35 | 59.5 | 22 | 38 | 12.7 | 0 | 36 | 29.3 | 2 | 38 | 42.5 | 4 | 36 | 59.2 |
| 2 | 18 | 37 | 42.8 | 20 | 39 | 56.1 | 22 | 42 | 9.3 | 0 | 40 | 25.9 | 2 | 42 | 39.1 | 4 | 40 | 55.8 |
| 3 | 18 | 41 | 39.4 | 20 | 43 | 52.6 | 22 | 46 | 5.8 | 0 | 44 | 22.4 | 2 | 46 | 35.6 | 4 | 44 | 52.3 |
| 4 | 18 | 45 | 36.0 | 20 | 47 | 49.2 | 22 | 50 | 2.4 | 0 | 48 | 19.0 | 2 | 50 | 32.2 | 4 | 48 | 48.9 |
| 5 | 18 | 49 | 32.5 | 20 | 51 | 45.7 | 22 | 53 | 58.9 | 0 | 52 | 15.5 | 2 | 54 | 28.7 | 4 | 52 | 45.4 |
| 6 | 18 | 53 | 29.1 | 20 | 55 | 42.3 | 22 | 57 | 55.5 | 0 | 56 | 12.1 | 2 | 58 | 25.3 | 4 | 56 | 42.0 |
| 7 | 18 | 57 | 25.6 | 20 | 59 | 38.9 | 23 | 1 | 52.1 | 1 | 0 | 8.6 | 3 | 2 | 21.8 | 5 | 0 | 38.5 |
| 8 | 19 | 1 | 22.2 | 21 | 3 | 35.4 | 23 | 5 | 48.6 | 1 | 4 | 5.2 | 3 | 6 | 18.4 | 5 | 4 | 35.1 |
| 9 | 19 | 5 | 18.7 | 21 | 7 | 32.0 | 23 | 9 | 45.2 | 1 | 8 | 1.7 | 3 | 10 | 14.9 | 5 | 8 | 31.7 |
| 10 | 19 | 9 | 15.3 | 21 | 11 | 28.5 | 23 | 13 | 41.7 | 1 | 11 | 58.3 | 3 | 14 | 11.5 | 5 | 12 | 28.2 |
| 11 | 19 | 13 | 11.8 | 21 | 15 | 25.1 | 23 | 17 | 38.3 | 1 | 15 | 54.8 | 3 | 18 | 8.0 | 5 | 16 | 24.8 |
| 12 | 19 | 17 | 8.4 | 21 | 19 | 21.7 | 23 | 21 | 34.8 | 1 | 19 | 51.4 | 3 | 22 | 4.6 | 5 | 20 | 21.3 |
| 13 | 19 | 21 | 5.0 | 21 | 23 | 18.2 | 23 | 25 | 31.4 | 1 | 23 | 47.9 | 3 | 26 | 1.2 | 5 | 24 | 17.9 |
| 14 | 19 | 25 | 1.5 | 21 | 27 | 14.8 | 23 | 29 | 27.9 | 1 | 27 | 44.5 | 3 | 29 | 57.7 | 5 | 28 | 14.5 |
| 15 | 19 | 28 | 58.1 | 21 | 31 | 11.3 | 23 | 33 | 24.5 | 1 | 31 | 41.1 | 3 | 33 | 54.3 | 5 | 32 | 11.0 |
| 16 | 19 | 32 | 54.6 | 21 | 35 | 7.9 | 23 | 37 | 21.0 | 1 | 35 | 37.6 | 3 | 37 | 50.8 | 5 | 36 | 7.6 |
| 17 | 19 | 36 | 51.2 | 21 | 39 | 4.4 | 23 | 41 | 17.6 | 1 | 39 | 34.2 | 3 | 41 | 47.4 | 5 | 40 | 4.1 |
| 18 | 19 | 40 | 47.8 | 21 | 43 | 1.0 | 23 | 45 | 14.1 | 1 | 43 | 30.7 | 3 | 45 | 44.0 | 5 | 44 | 0.7 |
| 19 | 19 | 44 | 44.3 | 21 | 46 | 57.5 | 23 | 49 | 10.7 | 1 | 47 | 27.3 | 3 | 49 | 40.5 | 5 | 47 | 57.2 |
| 20 | 19 | 48 | 40.9 | 21 | 50 | 54.1 | 23 | 53 | 7.2 | 1 | 51 | 23.9 | 3 | 53 | 37.1 | 5 | 51 | 53.8 |
| 21 | 19 | 52 | 37.4 | 21 | 54 | 50.6 | 23 | 57 | 3.8 | 1 | 55 | 20.4 | 3 | 57 | 33.6 | 5 | 55 | 50.4 |
| 22 | 19 | 56 | 34.0 | 21 | 58 | 47.2 | 0 | 1 | 0.4 | 1 | 59 | 17.0 | 4 | 1 | 30.2 | 5 | 59 | 46.9 |
| 23 | 20 | 0 | 30.5 | 22 | 2 | 43.7 | 0 | 4 | 56.9 | 2 | 3 | 13.5 | 4 | 5 | 26.7 | 6 | 3 | 43.5 |
| 24 | 20 | 4 | 27.1 | 22 | 6 | 40.3 | 0 | 8 | 53.5 | 2 | 7 | 10.1 | 4 | 9 | 23.3 | 6 | 7 | 40.0 |
| 25 | 20 | 8 | 23.6 | 22 | 10 | 36.9 | 0 | 12 | 50.0 | 2 | 11 | 6.6 | 4 | 13 | 19.8 | 6 | 11 | 36.6 |
| 26 | 20 | 12 | 20.2 | 22 | 14 | 33.4 | 0 | 16 | 46.6 | 2 | 15 | 3.2 | 4 | 17 | 16.4 | 6 | 15 | 33.2 |
| 27 | 20 | 16 | 16.8 | 22 | 18 | 30.0 | 0 | 20 | 43.1 | 2 | 18 | 59.7 | 4 | 21 | 13.0 | 6 | 19 | 29.7 |
| 28 | 20 | 20 | 13.3 | 22 | 22 | 26.5 | 0 | 24 | 39.7 | 2 | 22 | 56.3 | 4 | 25 | 9.5 | 6 | 23 | 26.3 |
| 29 | 20 | 24 | 9.9 | 22 | 26 | 23.1 | 0 | 28 | 36.2 | 2 | 26 | 52.8 | 4 | 29 | 6.1 | 6 | 27 | 22.8 |
| 30 | 20 | 28 | 6.4 | 22 | 30 | 19.6 | 0 | 32 | 32.8 | 2 | 30 | 49.4 | 4 | 33 | 2.6 | 6 | 31 | 19.4 |
| 31 | 20 | 32 | 3.0 | 22 | 34 | 16.2 | 0 | 36 | 29.3 | 2 | 34 | 45.9 | 4 | 36 | 59.2 | 6 | 35 | 15.9 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longi- tude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|
| | m | m | s | m | m | s | m | m | s | m | m | s | |
| 0 | 1 | 58 | .3 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 |
| 5 | 1 | 59 | .1 | 2 | 9.0 | 2 | 18.8 | 2 | 28.7 | 2 | 38.5 | 2 | 48.4 |
| 10 | 1 | 59 | .9 | 2 | 9.8 | 2 | 19.6 | 2 | 29.5 | 2 | 39.3 | 2 | 49.2 |
| 15 | 2 | 0 | .7 | 2 | 10.6 | 2 | 20.5 | 2 | 30.3 | 2 | 40.2 | 2 | 50.0 |
| 20 | 2 | 1 | .6 | 2 | 11.4 | 2 | 21.3 | 2 | 31.1 | 2 | 41.0 | 2 | 50.8 |
| 25 | 2 | 2 | .4 | 2 | 12.2 | 2 | 22.1 | 2 | 32.0 | 2 | 41.8 | 2 | 51.7 |
| 30 | 2 | 3 | .2 | 2 | 13.1 | 2 | 22.9 | 2 | 32.8 | 2 | 42.6 | 2 | 52.5 |
| 35 | 2 | 4 | .0 | 2 | 13.9 | 2 | 23.7 | 2 | 33.6 | 2 | 43.5 | 2 | 53.3 |
| 40 | 2 | 4 | .8 | 2 | 14.7 | 2 | 24.6 | 2 | 34.4 | 2 | 44.3 | 2 | 54.1 |
| 45 | 2 | 5 | .7 | 2 | 15.5 | 2 | 25.4 | 2 | 35.2 | 2 | 45.1 | 2 | 55.0 |
| 50 | 2 | 6 | .5 | 2 | 16.3 | 2 | 26.2 | 2 | 36.1 | 2 | 45.9 | 2 | 55.8 |
| 55 | 2 | 7 | .3 | 2 | 17.2 | 2 | 27.0 | 2 | 36.9 | 2 | 46.7 | 2 | 56.6 |
| 60 | 2 | 8 | .1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 |

P. P.

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. |
|-------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|
| Tuesday 1 | | | | | | | | | |
| 0 | -3 14.8 | -23 4.3 | 179 11.3 | -5 6.8 | -22 42.3 | 178 43.3 | -6 52.0 | -22 13.1 | 178 17.0 |
| 2 | 3 17.2 | 23 3.9 | 209 10.7 | 5 9.0 | 22 41.7 | 208 42.7 | 6 54.1 | 22 12.4 | 208 16.5 |
| 4 | 3 19.5 | 23 3.5 | 239 10.1 | 5 11.3 | 22 41.2 | 238 42.2 | 6 56.2 | 22 11.7 | 238 15.9 |
| 6 | 3 21.9 | 23 3.1 | 269 9.5 | 5 13.6 | 22 40.7 | 268 41.6 | 6 58.3 | 22 11.0 | 268 15.4 |
| 8 | 3 24.3 | 23 2.7 | 299 8.9 | 5 15.8 | 22 40.1 | 298 41.0 | 7 0.4 | 22 10.3 | 298 14.9 |
| 10 | 3 26.7 | 23 2.3 | 329 8.3 | 5 18.1 | 22 39.6 | 328 40.5 | 7 2.5 | 22 9.6 | 328 14.4 |
| 12 | 3 29.1 | 23 1.9 | 359 7.7 | 5 20.3 | 22 39.0 | 358 39.9 | 7 4.6 | 22 8.9 | 358 13.8 |
| 14 | 3 31.4 | 23 1.5 | 29 7.1 | 5 22.6 | 22 38.5 | 28 39.4 | 7 6.7 | 22 8.2 | 28 13.3 |
| 16 | 3 33.8 | 23 1.1 | 59 6.5 | 5 24.8 | 22 37.9 | 58 38.8 | 7 8.8 | 22 7.5 | 58 12.8 |
| 18 | 3 36.2 | 23 0.7 | 89 6.0 | 5 27.1 | 22 37.3 | 88 38.2 | 7 10.8 | 22 6.8 | 88 12.3 |
| 20 | 3 38.6 | 23 0.3 | 119 5.4 | 5 29.3 | 22 36.8 | 118 37.7 | 7 12.9 | 22 6.1 | 118 11.8 |
| 22 | -3 40.9 | -22 59.9 | 149 4.8 | -5 31.6 | -22 36.2 | 148 37.1 | -7 15.0 | -22 5.4 | 148 11.3 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.3 | ... |
| Wednesday 2 | | | | | | | | | |
| 0 | -3 43.3 | -22 59.5 | 179 4.2 | -5 33.8 | -22 35.6 | 178 36.5 | -7 17.1 | -22 4.7 | 178 10.7 |
| 2 | 3 45.7 | 22 59.0 | 209 3.6 | 5 36.0 | 22 35.1 | 208 36.0 | 7 19.1 | 22 4.0 | 208 10.2 |
| 4 | 3 48.0 | 22 58.6 | 239 3.0 | 5 38.3 | 22 34.5 | 238 35.4 | 7 21.2 | 22 3.2 | 238 9.7 |
| 6 | 3 50.4 | 22 58.2 | 269 2.4 | 5 40.5 | 22 33.9 | 268 34.9 | 7 23.2 | 22 2.5 | 268 9.2 |
| 8 | 3 52.7 | 22 57.7 | 299 1.8 | 5 42.7 | 22 33.3 | 298 34.3 | 7 25.3 | 22 1.8 | 298 8.7 |
| 10 | 3 55.1 | 22 57.3 | 329 1.2 | 5 44.9 | 22 32.7 | 328 33.8 | 7 27.3 | 22 1.1 | 328 8.2 |
| 12 | 3 57.4 | 22 56.9 | 359 0.6 | 5 47.1 | 22 32.2 | 358 33.2 | 7 29.3 | 22 0.3 | 358 7.7 |
| 14 | 3 59.8 | 22 56.4 | 29 0.1 | 5 49.4 | 22 31.6 | 28 32.7 | 7 31.4 | 21 59.6 | 28 7.2 |
| 16 | 4 2.1 | 22 56.0 | 58 59.5 | 5 51.6 | 22 31.0 | 58 32.1 | 7 33.4 | 21 58.9 | 58 6.6 |
| 18 | 4 4.5 | 22 55.5 | 88 58.9 | 5 53.8 | 22 30.4 | 88 31.6 | 7 35.4 | 21 58.1 | 88 6.1 |
| 20 | 4 6.8 | 22 55.1 | 118 58.3 | 5 56.0 | 22 29.8 | 118 31.0 | 7 37.5 | 21 57.4 | 118 5.6 |
| 22 | -4 9.2 | -22 54.6 | 148 57.7 | -5 58.2 | -22 29.2 | 148 30.5 | -7 39.5 | -21 56.6 | 148 5.1 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Thursday 3 | | | | | | | | | |
| 0 | -4 11.5 | -22 54.2 | 178 57.1 | -6 0.4 | -22 28.6 | 178 29.9 | -7 41.5 | -21 55.9 | 178 4.6 |
| 2 | 4 13.8 | 22 53.7 | 208 56.5 | 6 2.6 | 22 28.0 | 208 29.4 | 7 43.5 | 21 55.1 | 208 4.1 |
| 4 | 4 16.2 | 22 53.3 | 238 56.0 | 6 4.8 | 22 27.3 | 238 28.8 | 7 45.5 | 21 54.4 | 238 3.6 |
| 6 | 4 18.5 | 22 52.8 | 268 55.4 | 6 6.9 | 22 26.7 | 268 28.3 | 7 47.5 | 21 53.6 | 268 3.1 |
| 8 | 4 20.8 | 22 52.3 | 298 54.8 | 6 9.1 | 22 26.1 | 298 27.7 | 7 49.5 | 21 52.8 | 298 2.6 |
| 10 | 4 23.1 | 22 51.8 | 328 54.2 | 6 11.3 | 22 25.5 | 328 27.2 | 7 51.5 | 21 52.1 | 328 2.1 |
| 12 | 4 25.5 | 22 51.4 | 358 53.6 | 6 13.5 | 22 24.9 | 358 26.6 | 7 53.5 | 21 51.3 | 358 1.6 |
| 14 | 4 27.8 | 22 50.9 | 28 53.1 | 6 15.6 | 22 24.2 | 28 26.1 | 7 55.5 | 21 50.5 | 28 1.1 |
| 16 | 4 30.1 | 22 50.4 | 58 52.5 | 6 17.8 | 22 23.6 | 58 25.5 | 7 57.5 | 21 49.7 | 58 0.6 |
| 18 | 4 32.4 | 22 49.9 | 88 51.9 | 6 20.0 | 22 23.0 | 88 25.0 | 7 59.5 | 21 49.0 | 88 0.1 |
| 20 | 4 34.7 | 22 49.4 | 118 51.3 | 6 22.2 | 22 22.3 | 118 24.5 | 8 1.4 | 21 48.2 | 117 59.6 |
| 22 | -4 37.0 | -22 48.9 | 148 50.7 | -6 24.3 | -22 21.7 | 148 23.9 | -8 3.4 | -21 47.4 | 147 59.2 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Friday 4 | | | | | | | | | |
| 0 | -4 39.3 | -22 48.5 | 178 50.2 | -6 26.5 | -22 21.0 | 178 23.4 | -8 5.4 | -21 46.6 | 177 58.7 |
| 2 | 4 41.6 | 22 48.0 | 208 49.6 | 6 28.6 | 22 20.4 | 208 22.8 | 8 7.3 | 21 45.8 | 207 58.2 |
| 4 | 4 43.9 | 22 47.5 | 238 49.0 | 6 30.8 | 22 19.8 | 238 22.3 | 8 9.3 | 21 45.0 | 237 57.7 |
| 6 | 4 46.2 | 22 46.9 | 268 48.4 | 6 32.9 | 22 19.1 | 268 21.8 | 8 11.2 | 21 44.2 | 267 57.2 |
| 8 | 4 48.5 | 22 46.4 | 298 47.9 | 6 35.0 | 22 18.4 | 298 21.2 | 8 13.2 | 21 43.4 | 297 56.7 |
| 10 | 4 50.8 | 22 45.9 | 328 47.3 | 6 37.2 | 22 17.8 | 328 20.7 | 8 15.1 | 21 42.6 | 327 56.2 |
| 12 | 4 53.1 | 22 45.4 | 358 46.7 | 6 39.3 | 22 17.1 | 358 20.2 | 8 17.1 | 21 41.8 | 357 55.7 |
| 14 | 4 55.4 | 22 44.9 | 28 46.2 | 6 41.4 | 22 16.5 | 28 19.6 | 8 19.0 | 21 41.0 | 27 55.3 |
| 16 | 4 57.7 | 22 44.4 | 58 45.6 | 6 43.6 | 22 15.8 | 58 19.1 | 8 20.9 | 21 40.2 | 57 54.8 |
| 18 | 5 0.0 | 22 43.9 | 88 45.0 | 6 45.7 | 22 15.1 | 88 18.6 | 8 22.8 | 21 39.4 | 87 54.3 |
| 20 | 5 2.2 | 22 43.3 | 118 44.4 | 6 47.8 | 22 14.4 | 118 18.0 | 8 24.8 | 21 38.6 | 117 53.8 |
| 22 | -5 4.5 | -22 42.8 | 148 43.9 | -6 49.9 | -22 13.8 | 148 17.5 | -8 26.7 | -21 37.8 | 147 53.3 |
| H. D. | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Saturday 8 | | | | | | | | | |
| 0 | -4 41.5 | -21 55.9 | 178 4.6 | -7 41.5 | -21 55.9 | 178 4.6 | -7 41.5 | -21 55.9 | 178 4.6 |
| 2 | 4 43.5 | 21 55.1 | 208 4.1 | 7 43.5 | 21 55.1 | 208 4.1 | 7 43.5 | 21 55.1 | 208 4.1 |
| 4 | 4 45.5 | 21 54.4 | 238 3.6 | 7 45.5 | 21 54.4 | 238 3.6 | 7 45.5 | 21 54.4 | 238 3.6 |
| 6 | 4 47.5 | 21 53.6 | 268 3.1 | 7 47.5 | 21 53.6 | 268 3.1 | 7 47.5 | 21 53.6 | 268 3.1 |
| 8 | 4 49.5 | 21 52.8 | 298 2.6 | 7 49.5 | 21 52.8 | 298 2.6 | 7 49.5 | 21 52.8 | 298 2.6 |
| 10 | 4 51.5 | 21 52.1 | 328 2.1 | 7 51.5 | 21 52.1 | 328 2.1 | 7 51.5 | 21 52.1 | 328 2.1 |
| 12 | 4 53.5 | 21 51.3 | 358 1.6 | 7 53.5 | 21 51.3 | 358 1.6 | 7 53.5 | 21 51.3 | 358 1.6 |
| 14 | 4 55.5 | 21 50.5 | 28 1.1 | 7 55.5 | 21 50.5 | 28 1.1 | 7 55.5 | 21 50.5 | 28 1.1 |
| 16 | 4 57.5 | 21 49.7 | 58 0.6 | 7 57.5 | 21 49.7 | 58 0.6 | 7 57.5 | 21 49.7 | 58 0.6 |
| 18 | 4 59.5 | 21 49.0 | 88 0.1 | 7 59.5 | 21 49.0 | 88 0.1 | 7 59.5 | 21 49.0 | 88 0.1 |
| 20 | 4 61.4 | 21 48.2 | 117 59.6 | 8 1.4 | 21 48.2 | 117 59.6 | 8 1.4 | 21 48.2 | 117 59.6 |
| 22 | -4 63.4 | -21 47.4 | 147 59.2 | -8 3.4 | -21 47.4 | 147 59.2 | -8 3.4 | -21 47.4 | 147 59.2 |
| H. D. | 1.1 | 0.4 | ... | 1.0 | 0.4 | ... | 1.0 | 0.4 | ... |
| Saturday 12 | | | | | | | | | |
| 0 | -4 46.6 | -21 46.6 | 177 58.7 | -8 5.4 | -21 46.6 | 177 58.7 | -8 5.4 | -21 46.6 | 177 58.7 |
| 2 | 4 48.6 | 207 58.2 | 207 58.2 | 8 7.3 | 21 45.8 | 207 58.2 | 8 7.3 | 21 45.8 | 207 58.2 |
| 4 | 4 50.6 | 237 57.7 | 237 57.7 | 8 9.3 | 21 45.0 | 237 57.7 | 8 9.3 | 21 45.0 | 237 57.7 |
| 6 | 4 52.6 | 267 57.2 | 267 57.2 | 8 11.2 | 21 44.2 | 267 57.2 | 8 11.2 | 21 44.2 | 267 57.2 |
| 8 | 4 54.6 | 297 56.7 | 297 56.7 | 8 13.2 | 21 43.4 | 297 56.7 | 8 13.2 | 21 43.4 | 297 56.7 |
| 10 | 4 56.6 | 327 56.2 | 327 56.2 | 8 15.1 | 21 42.6 | 327 56.2 | 8 15.1 | 21 42.6 | 327 56.2 |
| 12 | 4 58.6 | 357 55.7 | 357 55.7 | 8 17.1 | 21 41.8 | 357 55.7 | 8 17.1 | 21 41.8 | 357 55.7 |
| 14 | 4 60.6 | 27 55.3 | 27 55.3 | 8 19.0 | 21 41.0 | 27 55.3 | 8 19.0 | 21 41.0 | 27 55.3 |
| 16 | 4 62.6 | 57 54.8 | 57 54.8 | 8 20.9 | 21 40.2 | 57 54.8 | 8 20.9 | 21 40.2 | 57 54.8 |
| 18 | 4 64.6 | 87 54.3 | 87 54.3 | 8 22.8 | 21 39.4 | 87 54.3 | 8 22.8 | 21 39.4 | 87 54.3 |
| 20 | 4 66.6 | 117 53.8 | 117 53.8 | 8 24.8 | 21 38.6 | 117 53.8 | 8 24.8 | 21 38.6 | 117 53.8 |
| 22 | -4 68.6 | 147 53.3 | 147 53.3 | -8 26.7 | -21 37.8 | 147 53.3 | -8 26.7 | -21 37.8 | 147 53.3 |
| H. D. | 1.1 | 0.4 | ... | 1.0 | 0.4 | ... | 1.0 | 0.4 | ... |

NOTE.—The Equation of Time is to be applied to the G. C. T. in accordance with the sign as given.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|----------|----|------|-------|----|------|-------|----|------|-----|----|------|------|----|------|
| | January | | | February | | | March | | | April | | | May | | | June | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 2 | 6 | 41 | 7.1 | 8 | 43 | 20.3 | 10 | 33 | 43.8 | 12 | 35 | 57.0 | 14 | 34 | 13.6 | 16 | 36 | 26.8 |
| 3 | 6 | 45 | 3.6 | 8 | 47 | 16.9 | 10 | 37 | 40.4 | 12 | 39 | 53.5 | 14 | 38 | 10.1 | 16 | 40 | 23.4 |
| 4 | 6 | 49 | 0.2 | 8 | 51 | 13.4 | 10 | 41 | 36.9 | 12 | 43 | 50.1 | 14 | 42 | 6.7 | 16 | 44 | 19.9 |
| 5 | 6 | 52 | 56.7 | 8 | 55 | 10.0 | 10 | 45 | 33.5 | 12 | 47 | 46.6 | 14 | 46 | 3.2 | 16 | 48 | 16.5 |
| 6 | 6 | 56 | 53.3 | 8 | 59 | 6.5 | 10 | 49 | 30.0 | 12 | 51 | 43.2 | 14 | 49 | 59.8 | 16 | 52 | 13.0 |
| 7 | 7 | 0 | 49.8 | 9 | 3 | 3.1 | 10 | 53 | 26.6 | 12 | 55 | 39.7 | 14 | 53 | 56.4 | 16 | 56 | 9.6 |
| 8 | 7 | 4 | 46.4 | 9 | 6 | 59.6 | 10 | 57 | 23.1 | 12 | 59 | 36.3 | 14 | 57 | 52.9 | 17 | 0 | 6.1 |
| 9 | 7 | 8 | 43.0 | 9 | 10 | 56.2 | 11 | 1 | 19.7 | 13 | 3 | 32.8 | 15 | 1 | 49.5 | 17 | 4 | 2.7 |
| 10 | 7 | 12 | 39.5 | 9 | 14 | 52.8 | 11 | 5 | 16.3 | 13 | 7 | 29.4 | 15 | 5 | 46.0 | 17 | 7 | 59.3 |
| 11 | 7 | 16 | 36.1 | 9 | 18 | 49.3 | 11 | 9 | 12.8 | 13 | 11 | 26.0 | 15 | 9 | 42.6 | 17 | 11 | 55.8 |
| 12 | 7 | 20 | 32.6 | 9 | 22 | 45.9 | 11 | 13 | 9.4 | 13 | 15 | 22.5 | 15 | 13 | 39.1 | 17 | 15 | 52.4 |
| 13 | 7 | 24 | 29.2 | 9 | 26 | 42.4 | 11 | 17 | 5.9 | 13 | 19 | 19.0 | 15 | 17 | 35.7 | 17 | 19 | 49.0 |
| 14 | 7 | 28 | 25.7 | 9 | 30 | 39.0 | 11 | 21 | 2.5 | 13 | 23 | 15.6 | 15 | 21 | 32.2 | 17 | 23 | 45.5 |
| 15 | 7 | 32 | 22.3 | 9 | 34 | 35.5 | 11 | 24 | 59.0 | 13 | 27 | 12.1 | 15 | 25 | 28.8 | 17 | 27 | 42.1 |
| 16 | 7 | 36 | 18.9 | 9 | 38 | 32.1 | 11 | 28 | 55.6 | 13 | 31 | 8.7 | 15 | 29 | 25.4 | 17 | 31 | 38.6 |
| 17 | 7 | 40 | 15.4 | 9 | 42 | 28.6 | 11 | 32 | 52.1 | 13 | 35 | 5.3 | 15 | 33 | 21.9 | 17 | 35 | 35.2 |
| 18 | 7 | 44 | 12.0 | 9 | 46 | 25.2 | 11 | 36 | 48.7 | 13 | 39 | 1.8 | 15 | 37 | 18.5 | 17 | 39 | 31.7 |
| 19 | 7 | 48 | 8.5 | 9 | 50 | 21.7 | 11 | 40 | 45.2 | 13 | 42 | 58.4 | 15 | 41 | 15.0 | 17 | 43 | 28.3 |
| 20 | 7 | 52 | 5.1 | 9 | 54 | 18.3 | 11 | 44 | 41.8 | 13 | 46 | 54.9 | 15 | 45 | 11.6 | 17 | 47 | 24.8 |
| 21 | 7 | 56 | 1.6 | 9 | 58 | 14.9 | 11 | 48 | 38.3 | 13 | 50 | 51.5 | 15 | 49 | 8.1 | 17 | 51 | 21.4 |
| 22 | 7 | 59 | 58.2 | 10 | 2 | 11.4 | 11 | 52 | 34.9 | 13 | 54 | 48.1 | 15 | 53 | 4.7 | 17 | 55 | 18.0 |
| 23 | 8 | 3 | 54.8 | 10 | 6 | 8.0 | 11 | 56 | 31.5 | 13 | 58 | 44.6 | 15 | 57 | 1.2 | 17 | 59 | 14.5 |
| 24 | 8 | 7 | 51.3 | 10 | 10 | 4.5 | 12 | 0 | 28.0 | 14 | 2 | 41.2 | 16 | 0 | 57.8 | 18 | 3 | 11.1 |
| 25 | 8 | 11 | 47.9 | 10 | 14 | 1.1 | 12 | 4 | 24.6 | 14 | 6 | 37.7 | 16 | 4 | 54.3 | 18 | 7 | 7.6 |
| 26 | 8 | 15 | 44.4 | 10 | 17 | 57.6 | 12 | 8 | 21.1 | 14 | 10 | 34.2 | 16 | 8 | 50.9 | 18 | 11 | 4.2 |
| 27 | 8 | 19 | 41.0 | 10 | 21 | 54.2 | 12 | 12 | 17.7 | 14 | 14 | 30.8 | 16 | 12 | 47.5 | 18 | 15 | 0.7 |
| 28 | 8 | 23 | 37.6 | 10 | 25 | 50.7 | 12 | 16 | 14.2 | 14 | 18 | 27.3 | 16 | 16 | 44.0 | 18 | 18 | 57.3 |
| 29 | 8 | 27 | 34.1 | 10 | 29 | 47.3 | 12 | 20 | 10.8 | 14 | 22 | 23.9 | 16 | 20 | 40.6 | 18 | 22 | 53.9 |
| 30 | 8 | 31 | 30.7 | 10 | 33 | 43.8 | 12 | 24 | 7.3 | 14 | 26 | 20.5 | 16 | 24 | 37.1 | 18 | 26 | 50.4 |
| 31 | 8 | 35 | 27.2 | 10 | 37 | 40.4 | 12 | 28 | 3.9 | 14 | 30 | 17.0 | 16 | 28 | 33.7 | 18 | 30 | 47.0 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longi- tude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| m | m | m | m | m | m | m | m | m | m | m | m | m |
| 0 | 0.0 | 0.9.9 | 0.19.7 | 0.29.6 | 0.39.4 | 0.49.3 | 0.59.1 | 1.9.0 | 1.18.9 | 1.28.7 | 1.38.6 | 1.48.4 |
| 5 | 0.0.8 | 0.10.7 | 0.20.5 | 0.30.4 | 0.40.2 | 0.50.1 | 1.0.0 | 1.9.8 | 1.19.7 | 1.29.5 | 1.39.4 | 1.49.2 |
| 10 | 0.1.6 | 0.11.5 | 0.21.4 | 0.31.2 | 0.41.1 | 0.50.9 | 1.0.8 | 1.10.6 | 1.20.5 | 1.30.4 | 1.40.2 | 1.50.1 |
| 15 | 0.2.5 | 0.12.3 | 0.22.2 | 0.32.0 | 0.41.9 | 0.51.7 | 1.1.6 | 1.11.5 | 1.21.3 | 1.31.2 | 1.41.0 | 1.50.9 |
| 20 | 0.3.3 | 0.13.1 | 0.23.0 | 0.32.9 | 0.42.7 | 0.52.6 | 1.2.4 | 1.12.3 | 1.22.1 | 1.32.0 | 1.41.8 | 1.51.7 |
| 25 | 0.4.1 | 0.14.0 | 0.23.8 | 0.33.7 | 0.43.5 | 0.53.4 | 1.3.2 | 1.13.1 | 1.23.0 | 1.32.8 | 1.42.7 | 1.52.5 |
| 30 | 0.4.9 | 0.14.8 | 0.24.6 | 0.34.5 | 0.44.4 | 0.54.2 | 1.4.1 | 1.13.9 | 1.23.8 | 1.33.6 | 1.43.5 | 1.53.3 |
| 35 | 0.5.8 | 0.15.6 | 0.25.5 | 0.35.3 | 0.45.2 | 0.55.0 | 1.4.9 | 1.14.7 | 1.24.6 | 1.34.5 | 1.44.3 | 1.54.2 |
| 40 | 0.6.6 | 0.16.4 | 0.26.3 | 0.36.1 | 0.46.0 | 0.55.9 | 1.5.7 | 1.15.6 | 1.25.4 | 1.35.3 | 1.45.1 | 1.55.0 |
| 45 | 0.7.4 | 0.17.2 | 0.27.1 | 0.37.0 | 0.46.8 | 0.56.7 | 1.6.5 | 1.16.4 | 1.26.2 | 1.36.1 | 1.46.0 | 1.55.8 |
| 50 | 0.8.2 | 0.18.1 | 0.27.9 | 0.37.8 | 0.47.6 | 0.57.5 | 1.7.4 | 1.17.2 | 1.27.1 | 1.36.9 | 1.46.8 | 1.56.6 |
| 55 | 0.9.0 | 0.18.9 | 0.28.7 | 0.38.6 | 0.48.5 | 0.58.3 | 1.8.2 | 1.18.0 | 1.27.9 | 1.37.7 | 1.47.6 | 1.57.5 |
| 60 | 0.9.9 | 0.19.7 | 0.29.6 | 0.39.4 | 0.49.3 | 0.59.1 | 1.9.0 | 1.18.9 | 1.28.7 | 1.38.6 | 1.48.4 | 1.58.3 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|--------|----|------|-----------|----|------|---------|----|------|----------|----|------|----------|----|------|
| | July | | | August | | | September | | | October | | | November | | | December | | |
| | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 18 | 34 | 43.5 | 20 | 36 | 56.8 | 22 | 39 | 10.0 | 0 | 37 | 26.6 | 2 | 39 | 39.7 | 4 | 37 | 56.4 |
| 2 | 18 | 38 | 40.1 | 20 | 40 | 53.3 | 22 | 43 | 6.5 | 0 | 41 | 23.1 | 2 | 43 | 36.3 | 4 | 41 | 53.0 |
| 3 | 18 | 42 | 36.6 | 20 | 44 | 49.9 | 22 | 47 | 3.1 | 0 | 45 | 19.7 | 2 | 47 | 32.8 | 4 | 45 | 49.5 |
| 4 | 18 | 46 | 33.2 | 20 | 48 | 46.5 | 22 | 50 | 59.7 | 0 | 49 | 16.2 | 2 | 51 | 29.4 | 4 | 49 | 46.1 |
| 5 | 18 | 50 | 29.8 | 20 | 52 | 43.0 | 22 | 54 | 56.2 | 0 | 53 | 12.8 | 2 | 55 | 25.9 | 4 | 53 | 42.6 |
| 6 | 18 | 54 | 26.3 | 20 | 56 | 39.6 | 22 | 58 | 52.8 | 0 | 57 | 9.3 | 2 | 59 | 22.5 | 4 | 57 | 39.2 |
| 7 | 18 | 58 | 22.9 | 21 | 0 | 36.1 | 23 | 2 | 49.3 | 1 | 1 | 5.9 | 3 | 3 | 19.0 | 5 | 1 | 35.8 |
| 8 | 19 | 2 | 19.4 | 21 | 4 | 32.7 | 23 | 6 | 45.9 | 1 | 5 | 2.4 | 3 | 7 | 15.6 | 5 | 5 | 32.3 |
| 9 | 19 | 6 | 16.0 | 21 | 8 | 29.3 | 23 | 10 | 42.4 | 1 | 8 | 59.0 | 3 | 11 | 12.2 | 5 | 9 | 28.9 |
| 10 | 19 | 10 | 12.6 | 21 | 12 | 25.8 | 23 | 14 | 39.0 | 1 | 12 | 55.5 | 3 | 15 | 8.7 | 5 | 13 | 25.4 |
| 11 | 19 | 14 | 9.1 | 21 | 16 | 22.4 | 23 | 18 | 35.5 | 1 | 16 | 52.1 | 3 | 19 | 5.3 | 5 | 17 | 22.0 |
| 12 | 19 | 18 | 5.7 | 21 | 20 | 18.9 | 23 | 22 | 32.1 | 1 | 20 | 48.6 | 3 | 23 | 1.8 | 5 | 21 | 18.6 |
| 13 | 19 | 22 | 2.2 | 21 | 24 | 15.5 | 23 | 26 | 28.6 | 1 | 24 | 45.2 | 3 | 26 | 58.4 | 5 | 25 | 15.1 |
| 14 | 19 | 25 | 58.8 | 21 | 28 | 12.0 | 23 | 30 | 25.2 | 1 | 28 | 41.8 | 3 | 30 | 55.0 | 5 | 29 | 11.7 |
| 15 | 19 | 29 | 55.3 | 21 | 32 | 8.6 | 23 | 34 | 21.7 | 1 | 32 | 38.3 | 3 | 34 | 51.5 | 5 | 33 | 8.2 |
| 16 | 19 | 33 | 51.9 | 21 | 36 | 5.1 | 23 | 38 | 18.3 | 1 | 36 | 34.9 | 3 | 38 | 48.1 | 5 | 37 | 4.8 |
| 17 | 19 | 37 | 48.4 | 21 | 40 | 1.7 | 23 | 42 | 14.8 | 1 | 40 | 31.4 | 3 | 42 | 44.6 | 5 | 41 | 1.3 |
| 18 | 19 | 41 | 45.0 | 21 | 43 | 58.2 | 23 | 46 | 11.4 | 1 | 44 | 28.0 | 3 | 46 | 41.2 | 5 | 44 | 57.9 |
| 19 | 19 | 45 | 41.6 | 21 | 47 | 54.8 | 23 | 50 | 7.9 | 1 | 48 | 24.5 | 3 | 50 | 37.7 | 5 | 48 | 54.5 |
| 20 | 19 | 49 | 38.1 | 21 | 51 | 51.3 | 23 | 54 | 4.5 | 1 | 52 | 21.1 | 3 | 54 | 34.3 | 5 | 52 | 51.0 |
| 21 | 19 | 53 | 34.7 | 21 | 55 | 47.9 | 23 | 58 | 1.0 | 1 | 56 | 17.6 | 3 | 58 | 30.8 | 5 | 56 | 47.6 |
| 22 | 19 | 57 | 31.2 | 21 | 59 | 44.5 | 0 | 1 | 57.6 | 2 | 0 | 14.2 | 4 | 2 | 27.4 | 6 | 0 | 44.2 |
| 23 | 20 | 1 | 27.8 | 22 | 3 | 41.0 | 0 | 5 | 54.1 | 2 | 4 | 10.7 | 4 | 6 | 24.0 | 6 | 4 | 40.7 |
| 24 | 20 | 5 | 24.4 | 22 | 7 | 37.6 | 0 | 9 | 50.7 | 2 | 8 | 7.3 | 4 | 10 | 20.5 | 6 | 8 | 37.3 |
| 25 | 20 | 9 | 20.9 | 22 | 11 | 34.1 | 0 | 13 | 47.2 | 2 | 12 | 3.8 | 4 | 14 | 17.1 | 6 | 12 | 33.8 |
| 26 | 20 | 13 | 17.5 | 22 | 15 | 30.7 | 0 | 17 | 43.8 | 2 | 16 | 0.4 | 4 | 18 | 13.6 | 6 | 16 | 30.4 |
| 27 | 20 | 17 | 14.0 | 22 | 19 | 27.2 | 0 | 21 | 40.4 | 2 | 19 | 57.0 | 4 | 22 | 10.2 | 6 | 20 | 26.9 |
| 28 | 20 | 21 | 10.6 | 22 | 23 | 23.8 | 0 | 25 | 36.9 | 2 | 23 | 53.5 | 4 | 26 | 6.8 | 6 | 24 | 23.5 |
| 29 | 20 | 25 | 7.1 | 22 | 27 | 20.3 | 0 | 29 | 33.5 | 2 | 27 | 50.1 | 4 | 30 | 3.3 | 6 | 28 | 20.0 |
| 30 | 20 | 29 | 3.7 | 22 | 31 | 16.9 | 0 | 33 | 30.0 | 2 | 31 | 46.6 | 4 | 33 | 59.9 | 6 | 32 | 16.6 |
| 31 | 20 | 33 | 0.2 | 22 | 35 | 13.4 | 0 | 37 | 26.6 | 2 | 35 | 43.2 | 4 | 37 | 56.4 | 6 | 36 | 13.1 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | | | | | | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|------|------|---|------|---|------|---|------|---|------|
| m | m | s | m | s | m | s | m | s | m | s | m | s | | | | | | | | | | | |
| 0 | 0 | 58.3 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | | | | | | | | | |
| 5 | 5 | 59.1 | 2 | 9.0 | 2 | 18.8 | 2 | 28.7 | 2 | 38.5 | 2 | 48.4 | 2 | 58.2 | | | | | | | | | |
| 10 | 10 | 59.9 | 2 | 9.8 | 2 | 19.6 | 2 | 29.5 | 2 | 39.3 | 2 | 49.2 | 2 | 59.1 | | | | | | | | | |
| 15 | 15 | 0.7 | 2 | 10.6 | 2 | 20.5 | 2 | 30.3 | 2 | 40.2 | 2 | 50.0 | 2 | 59.9 | | | | | | | | | |
| 20 | 20 | 2 | 11.4 | 2 | 21.3 | 2 | 31.1 | 2 | 41.0 | 2 | 50.8 | 3 | 0.7 | 3 | 10.6 | 3 | 20.4 | 3 | 30.3 | 3 | 40.1 | 3 | 50.0 |
| 25 | 25 | 2 | 12.2 | 2 | 22.1 | 2 | 32.0 | 2 | 41.8 | 2 | 51.7 | 3 | 1.5 | 3 | 11.4 | 3 | 21.2 | 3 | 31.1 | 3 | 40.9 | 3 | 50.8 |
| 30 | 30 | 2 | 13.1 | 2 | 22.9 | 2 | 32.8 | 2 | 42.6 | 2 | 52.5 | 3 | 2.3 | 3 | 12.2 | 3 | 22.1 | 3 | 31.9 | 3 | 41.8 | 3 | 51.6 |
| 35 | 35 | 2 | 13.9 | 2 | 23.7 | 2 | 33.6 | 2 | 43.5 | 2 | 53.3 | 3 | 3.2 | 3 | 13.0 | 3 | 22.9 | 3 | 32.7 | 3 | 42.6 | 3 | 52.4 |
| 40 | 40 | 2 | 14.7 | 2 | 24.6 | 2 | 34.4 | 2 | 44.3 | 2 | 54.1 | 3 | 4.0 | 3 | 13.8 | 3 | 23.7 | 3 | 33.6 | 3 | 43.4 | 3 | 53.3 |
| 45 | 45 | 2 | 15.5 | 2 | 25.4 | 2 | 35.2 | 2 | 45.1 | 2 | 55.0 | 3 | 4.8 | 3 | 14.7 | 3 | 24.5 | 3 | 34.4 | 3 | 44.2 | 3 | 54.1 |
| 50 | 50 | 2 | 16.3 | 2 | 26.2 | 2 | 36.1 | 2 | 45.9 | 2 | 55.8 | 3 | 5.6 | 3 | 15.5 | 3 | 25.3 | 3 | 35.2 | 3 | 45.1 | 3 | 54.9 |
| 55 | 55 | 2 | 17.2 | 2 | 27.0 | 2 | 36.9 | 2 | 46.7 | 2 | 56.6 | 3 | 6.5 | 3 | 16.3 | 3 | 26.2 | 3 | 36.0 | 3 | 45.9 | 3 | 55.7 |
| 60 | 60 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | 3 | 7.3 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 | 3 | 56.6 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

SUN, JANUARY 1945

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. |
|--------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|
| Monday 1 | | | | | | | | | |
| 0 | m 21.0 | -23 3.1 | 179 9.7 | -5 12.1 | -22 40.7 | 178 42.0 | -6 56.7 | -22 11.1 | 178 15.8 |
| 2 | 3 23.4 | 23 2.7 | 209 9.2 | 5 14.4 | 22 40.1 | 208 41.4 | 6 58.8 | 22 10.4 | 208 15.3 |
| 4 | 3 25.8 | 23 2.3 | 239 8.6 | 5 16.6 | 22 39.6 | 238 40.8 | 7 0.9 | 22 9.7 | 238 14.8 |
| 6 | 3 28.1 | 23 1.9 | 269 8.0 | 5 18.9 | 22 39.0 | 268 40.3 | 7 3.0 | 22 9.0 | 268 14.2 |
| 8 | 3 30.5 | 23 1.5 | 299 7.4 | 5 21.1 | 22 38.5 | 298 39.7 | 7 5.1 | 22 8.3 | 298 13.7 |
| 10 | 3 32.8 | 23 1.1 | 329 6.8 | 5 23.3 | 22 37.9 | 328 39.2 | 7 7.2 | 22 7.6 | 328 13.2 |
| 12 | 3 35.2 | 23 0.7 | 359 6.2 | 5 25.6 | 22 37.4 | 358 38.6 | 7 9.3 | 22 6.9 | 358 12.7 |
| 14 | 3 37.6 | 23 0.3 | 29 5.6 | 5 27.8 | 22 36.8 | 28 38.0 | 7 11.3 | 22 6.2 | 28 12.2 |
| 16 | 3 39.9 | 22 59.9 | 59 5.0 | 5 30.1 | 22 36.2 | 58 37.5 | 7 13.4 | 22 5.5 | 58 11.6 |
| 18 | 3 42.3 | 22 59.5 | 89 4.4 | 5 32.3 | 22 35.7 | 88 36.9 | 7 15.5 | 22 4.7 | 88 11.1 |
| 20 | 3 44.6 | 22 59.0 | 119 3.8 | 5 34.5 | 22 35.1 | 118 36.4 | 7 17.5 | 22 4.0 | 118 10.6 |
| 22 | -3 47.0 | -22 58.6 | 149 3.3 | -5 36.7 | -22 34.5 | 148 35.8 | -7 19.6 | -22 3.3 | 148 10.1 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Tuesday 2 | | | | | | | | | |
| 0 | -3 49.3 | -22 58.2 | 179 2.7 | -5 39.0 | -22 34.0 | 178 35.3 | -7 21.7 | -22 2.6 | 178 9.6 |
| 2 | 3 51.7 | 22 57.8 | 209 2.1 | 5 41.2 | 22 33.4 | 208 34.7 | 7 23.7 | 22 1.9 | 208 9.1 |
| 4 | 3 54.0 | 22 57.3 | 239 1.5 | 5 43.4 | 22 32.8 | 238 34.2 | 7 25.8 | 22 1.1 | 238 8.6 |
| 6 | 3 56.3 | 22 56.9 | 269 0.9 | 5 45.6 | 22 32.2 | 268 33.6 | 7 27.8 | 22 0.4 | 268 8.0 |
| 8 | 3 58.7 | 22 56.5 | 299 0.3 | 5 47.8 | 22 31.6 | 298 33.1 | 7 29.9 | 21 59.7 | 298 7.5 |
| 10 | 4 1.0 | 22 56.0 | 328 59.8 | 5 50.0 | 22 31.0 | 328 32.5 | 7 31.9 | 21 58.9 | 328 7.0 |
| 12 | 4 3.3 | 22 55.6 | 358 59.2 | 5 52.2 | 22 30.4 | 358 32.0 | 7 33.9 | 21 58.2 | 358 6.5 |
| 14 | 4 5.7 | 22 55.1 | 28 58.6 | 5 54.4 | 22 29.8 | 28 31.4 | 7 36.0 | 21 57.4 | 28 6.0 |
| 16 | 4 8.0 | 22 54.7 | 58 58.0 | 5 56.6 | 22 29.2 | 58 30.9 | 7 38.0 | 21 56.7 | 58 5.5 |
| 18 | 4 10.3 | 22 54.2 | 88 57.4 | 5 58.8 | 22 28.6 | 88 30.3 | 7 40.0 | 21 55.9 | 88 5.0 |
| 20 | 4 12.6 | 22 53.7 | 118 56.8 | 6 1.0 | 22 28.0 | 118 29.8 | 7 42.0 | 21 55.2 | 118 4.5 |
| 22 | -4 15.0 | -22 53.3 | 148 56.3 | -6 3.2 | -22 27.4 | 148 29.2 | -7 44.1 | -21 54.4 | 148 4.0 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Wednesday 3 | | | | | | | | | |
| 0 | -4 17.3 | -22 52.8 | 178 55.7 | -6 5.3 | -22 26.8 | 178 28.7 | -7 46.1 | -21 53.7 | 178 3.5 |
| 2 | 4 19.6 | 22 52.3 | 208 55.1 | 6 7.5 | 22 26.2 | 208 28.1 | 7 48.1 | 21 52.9 | 208 3.0 |
| 4 | 4 21.9 | 22 51.9 | 238 54.5 | 6 9.7 | 22 25.5 | 238 27.6 | 7 50.1 | 21 52.1 | 238 2.5 |
| 6 | 4 24.2 | 22 51.4 | 268 53.9 | 6 11.9 | 22 24.9 | 268 27.0 | 7 52.1 | 21 51.4 | 268 2.0 |
| 8 | 4 26.5 | 22 50.9 | 298 53.4 | 6 14.0 | 22 24.3 | 298 26.5 | 7 54.1 | 21 50.6 | 298 1.5 |
| 10 | 4 28.8 | 22 50.4 | 328 52.8 | 6 16.2 | 22 23.6 | 328 25.9 | 7 56.1 | 21 49.8 | 328 1.0 |
| 12 | 4 31.1 | 22 49.9 | 358 52.2 | 6 18.4 | 22 23.0 | 358 25.4 | 7 58.1 | 21 49.0 | 358 0.5 |
| 14 | 4 33.4 | 22 49.5 | 28 51.6 | 6 20.5 | 22 22.4 | 28 24.9 | 8 0.0 | 21 48.2 | 28 0.0 |
| 16 | 4 35.7 | 22 49.0 | 58 51.1 | 6 22.7 | 22 21.7 | 58 24.3 | 8 2.0 | 21 47.5 | 57 59.5 |
| 18 | 4 38.0 | 22 48.5 | 88 50.5 | 6 24.8 | 22 21.1 | 88 23.8 | 8 4.0 | 21 46.7 | 87 59.0 |
| 20 | 4 40.3 | 22 48.0 | 118 49.9 | 6 27.0 | 22 20.4 | 118 23.3 | 8 6.0 | 21 45.9 | 117 58.5 |
| 22 | -4 42.6 | -22 47.5 | 148 49.4 | -6 29.1 | -22 19.8 | 148 22.7 | -8 7.9 | -21 45.1 | 147 58.0 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Thursday 4 | | | | | | | | | |
| 0 | -4 44.9 | -22 47.0 | 178 48.8 | -6 31.3 | -22 19.1 | 178 22.2 | -8 9.9 | -21 44.3 | 177 57.5 |
| 2 | 4 47.2 | 22 46.5 | 208 48.2 | 6 33.4 | 22 18.5 | 208 21.6 | 8 11.9 | 21 43.5 | 207 57.0 |
| 4 | 4 49.4 | 22 46.0 | 238 47.6 | 6 35.6 | 22 17.8 | 238 21.1 | 8 13.8 | 21 42.7 | 237 56.5 |
| 6 | 4 51.7 | 22 45.4 | 268 47.1 | 6 37.7 | 22 17.2 | 268 20.6 | 8 15.8 | 21 41.9 | 267 56.1 |
| 8 | 4 54.0 | 22 44.9 | 298 46.5 | 6 39.8 | 22 16.5 | 298 20.0 | 8 17.7 | 21 41.1 | 297 55.6 |
| 10 | 4 56.3 | 22 44.4 | 328 45.9 | 6 41.9 | 22 15.8 | 328 19.5 | 8 19.7 | 21 40.3 | 327 55.1 |
| 12 | 4 58.6 | 22 43.9 | 358 45.4 | 6 44.1 | 22 15.2 | 358 19.0 | 8 21.6 | 21 39.5 | 357 54.6 |
| 14 | 5 0.8 | 22 43.4 | 28 44.8 | 6 46.2 | 22 14.5 | 28 18.5 | 8 23.5 | 21 38.6 | 27 54.1 |
| 16 | 5 3.1 | 22 42.8 | 58 44.2 | 6 48.3 | 22 13.8 | 58 17.9 | 8 25.5 | 21 37.8 | 57 53.6 |
| 18 | 5 5.3 | 22 42.3 | 88 43.7 | 6 50.4 | 22 13.1 | 88 17.4 | 8 27.4 | 21 37.0 | 87 53.2 |
| 20 | 5 7.6 | 22 41.8 | 118 43.1 | 6 52.5 | 22 12.5 | 118 16.9 | 8 29.3 | 21 36.2 | 117 52.7 |
| 22 | -5 9.9 | -22 41.2 | 148 42.5 | -6 54.6 | -22 11.8 | 148 16.3 | -8 31.2 | -21 35.4 | 147 52.2 |
| H. D. | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Monday 8 | | | | | | | | | |
| 0 | -6 31.3 | -22 19.1 | 178 22.2 | -8 9.9 | -21 44.3 | 177 57.5 | | | |
| 2 | 6 33.4 | 22 18.5 | 208 21.6 | 8 11.9 | 21 43.5 | 207 57.0 | | | |
| 4 | 6 35.6 | 22 17.8 | 238 21.1 | 8 13.8 | 21 42.7 | 237 56.5 | | | |
| 6 | 6 37.7 | 22 17.2 | 268 20.6 | 8 15.8 | 21 41.9 | 267 56.1 | | | |
| 8 | 6 39.8 | 22 16.5 | 298 20.0 | 8 17.7 | 21 41.1 | 297 55.6 | | | |
| 10 | 6 41.9 | 22 15.8 | 328 19.5 | 8 19.7 | 21 40.3 | 327 55.1 | | | |
| 12 | 6 44.1 | 22 15.2 | 358 19.0 | 8 21.6 | 21 39.5 | 357 54.6 | | | |
| 14 | 6 46.2 | 22 14.5 | 28 18.5 | 8 23.5 | 21 38.6 | 27 54.1 | | | |
| 16 | 6 48.3 | 22 13.8 | 58 17.9 | 8 25.5 | 21 37.8 | 57 53.6 | | | |
| 18 | 6 50.4 | 22 13.1 | 88 17.4 | 8 27.4 | 21 37.0 | 87 53.2 | | | |
| 20 | 6 52.5 | 22 12.5 | 118 16.9 | 8 29.3 | 21 36.2 | 117 52.7 | | | |
| 22 | 6 54.6 | -22 11.8 | 148 16.3 | -8 31.2 | -21 35.4 | 147 52.2 | | | |
| H. D. | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Friday 12 | | | | | | | | | |
| 0 | -8 9.9 | -21 44.3 | 177 57.5 | | | | | | |
| 2 | 8 11.9 | 21 43.5 | 207 57.0 | | | | | | |
| 4 | 8 13.8 | 21 42.7 | 237 56.5 | | | | | | |
| 6 | 8 15.8 | 21 41.9 | 267 56.1 | | | | | | |
| 8 | 8 17.7 | 21 41.1 | 297 55.6 | | | | | | |
| 10 | 8 19.7 | 21 40.3 | 327 55.1 | | | | | | |
| 12 | 8 21.6 | 21 39.5 | 357 54.6 | | | | | | |
| 14 | 8 23.5 | 21 38.6 | 27 54.1 | | | | | | |
| 16 | 8 25.5 | 21 37.8 | 57 53.6 | | | | | | |
| 18 | 8 27.4 | 21 37.0 | 87 53.2 | | | | | | |
| 20 | 8 29.3 | 21 36.2 | 117 52.7 | | | | | | |
| 22 | 8 31.2 | -21 35.4 | 147 52.2 | | | | | | |
| H. D. | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Tuesday 9 | | | | | | | | | |
| 0 | -6 56.7 | -22 11.1 | 178 15.8 | | | | | | |
| 2 | 6 58.8 | 22 10.4 | 208 15.3 | | | | | | |
| 4 | 7 0.9 | 22 9.7 | 238 14.8 | | | | | | |
| 6 | 7 3.0 | 22 9.0 | 268 14.2 | | | | | | |
| 8 | 7 5.1 | 22 8.3 | 298 13.7 | | | | | | |
| 10 | 7 7.2 | 22 7.6 | 328 13.2 | | | | | | |
| 12 | 7 9.3 | 22 6.9 | 358 12.7 | | | | | | |
| 14 | 7 11.3 | 22 6.2 | 28 12.2 | | | | | | |
| 16 | 7 13.4 | 22 5.5 | 58 11.6 | | | | | | |
| 18 | 7 15.5 | 22 4.7 | 88 11.1 | | | | | | |
| 20 | 7 17.5 | 22 4.0 | 118 10.6 | | | | | | |
| 22 | 7 19.6 | -22 3.3 | 148 10.1 | | | | | | |
| H. D. | 1.0 | 0.4 | ... | 1.0 | 0.4 | ... | 1.0 | 0.4 | ... |
| Wednesday 10 | | | | | | | | | |
| 0 | -7 21.7 | -22 2.6 | 178 9.6 | | | | | | |
| 2 | 7 23.7 | 22 1.9 | 208 9.1 | | | | | | |
| 4 | 7 25.8 | 22 1.1 | 238 8.6 | | | | | | |
| 6 | 7 27.8 | 22 0.4 | 268 8.0 | | | | | | |
| 8 | 7 29.9 | 21 59.7 | 298 7.5 | | | | | | |
| 10 | 7 31.9 | 21 58.9 | 328 7.0 | | | | | | |
| 12 | 7 33.9 | 21 58.2 | 358 6.5 | | | | | | |
| 14 | 7 36.0 | 21 57.4 | 28 6.0 | | | | | | |
| 16 | 7 38.0 | 21 56.7 | 58 5.5 | | | | | | |
| 18 | 7 40.0 | 21 55.9 | 88 5.0 | | | | | | |
| 20 | 7 42.0 | 21 55.2 | 118 4.5 | | | | | | |
| 22 | 7 44.1 | -21 54.4 | 148 4.0 | | | | | | |
| H. D. | 1.0 | 0.4 | ... | 1.0</ | | | | | |

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S. + 12 ^h) | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|------------|--|--|------------|--|--|------------|--|--|------------|--|--|------------|--|
| | January | | | February | | | March | | | April | | | May | | | June | |
| 1 | 6 38 8.0 | | | 8 40 21.2 | | | 10 34 41.3 | | | 12 36 54.4 | | | 14 35 11.0 | | | 16 37 24.2 | |
| 2 | 6 42 4.5 | | | 8 44 17.8 | | | 10 38 37.8 | | | 12 40 51.0 | | | 14 39 7.6 | | | 16 41 20.8 | |
| 3 | 6 46 1.1 | | | 8 48 14.3 | | | 10 42 34.4 | | | 12 44 47.5 | | | 14 43 4.1 | | | 16 45 17.3 | |
| 4 | 6 49 57.6 | | | 8 52 10.9 | | | 10 46 30.9 | | | 12 48 44.1 | | | 14 47 0.7 | | | 16 49 13.9 | |
| 5 | 6 53 54.2 | | | 8 56 7.4 | | | 10 50 27.5 | | | 12 52 40.6 | | | 14 50 57.2 | | | 16 53 10.4 | |
| 6 | 6 57 50.7 | | | 9 0 4.0 | | | 10 54 24.1 | | | 12 56 37.2 | | | 14 54 53.8 | | | 16 57 7.0 | |
| 7 | 7 1 47.3 | | | 9 4 0.6 | | | 10 58 20.6 | | | 13 0 33.7 | | | 14 58 50.3 | | | 17 1 3.6 | |
| 8 | 7 5 43.9 | | | 9 7 57.1 | | | 11 2 17.2 | | | 13 4 30.3 | | | 15 2 46.9 | | | 17 5 0.1 | |
| 9 | 7 9 40.4 | | | 9 11 53.7 | | | 11 6 13.7 | | | 13 8 26.8 | | | 15 6 43.4 | | | 17 8 56.7 | |
| 10 | 7 13 37.0 | | | 9 15 50.2 | | | 11 10 10.3 | | | 13 12 23.4 | | | 15 10 40.0 | | | 17 12 53.2 | |
| 11 | 7 17 33.5 | | | 9 19 46.8 | | | 11 14 6.8 | | | 13 16 19.9 | | | 15 14 36.5 | | | 17 16 49.8 | |
| 12 | 7 21 30.1 | | | 9 23 43.3 | | | 11 18 3.3 | | | 13 20 16.5 | | | 15 18 33.1 | | | 17 20 46.4 | |
| 13 | 7 25 26.7 | | | 9 27 39.9 | | | 11 21 59.9 | | | 13 24 13.0 | | | 15 22 29.7 | | | 17 24 42.9 | |
| 14 | 7 29 23.2 | | | 9 31 36.4 | | | 11 25 56.4 | | | 13 28 9.6 | | | 15 26 26.2 | | | 17 28 39.5 | |
| 15 | 7 33 19.8 | | | 9 35 33.0 | | | 11 29 53.0 | | | 13 32 6.1 | | | 15 30 22.8 | | | 17 32 36.0 | |
| 16 | 7 37 16.3 | | | 9 39 29.5 | | | 11 33 49.5 | | | 13 36 2.7 | | | 15 34 19.3 | | | 17 36 32.6 | |
| 17 | 7 41 12.9 | | | 9 43 26.1 | | | 11 37 46.1 | | | 13 39 59.3 | | | 15 38 15.9 | | | 17 40 29.1 | |
| 18 | 7 45 9.4 | | | 9 47 22.6 | | | 11 41 42.7 | | | 13 43 55.8 | | | 15 42 12.4 | | | 17 44 25.7 | |
| 19 | 7 49 6.0 | | | 9 51 19.2 | | | 11 45 39.2 | | | 13 47 52.4 | | | 15 46 9.0 | | | 17 48 22.2 | |
| 20 | 7 53 2.5 | | | 9 55 15.7 | | | 11 49 35.8 | | | 13 51 48.9 | | | 15 50 5.5 | | | 17 52 18.8 | |
| 21 | 7 56 59.1 | | | 9 59 12.3 | | | 11 53 32.3 | | | 13 55 45.5 | | | 15 54 2.1 | | | 17 56 15.4 | |
| 22 | 8 0 55.6 | | | 10 3 8.9 | | | 11 57 28.9 | | | 13 59 42.0 | | | 15 57 58.6 | | | 18 0 11.9 | |
| 23 | 8 4 52.2 | | | 10 7 5.4 | | | 12 1 25.4 | | | 14 3 38.6 | | | 16 1 55.2 | | | 18 4 8.5 | |
| 24 | 8 8 48.8 | | | 10 11 2.0 | | | 12 5 22.0 | | | 14 7 35.1 | | | 16 5 51.8 | | | 18 8 5.0 | |
| 25 | 8 12 45.3 | | | 10 14 58.5 | | | 12 9 18.5 | | | 14 11 31.7 | | | 16 9 48.3 | | | 18 12 1.6 | |
| 26 | 8 16 41.9 | | | 10 18 55.1 | | | 12 13 15.1 | | | 14 15 28.2 | | | 16 13 44.9 | | | 18 15 58.2 | |
| 27 | 8 20 38.4 | | | 10 22 51.6 | | | 12 17 11.6 | | | 14 19 24.8 | | | 16 17 41.5 | | | 18 19 54.7 | |
| 28 | 8 24 35.0 | | | 10 26 48.2 | | | 12 21 8.2 | | | 14 23 21.3 | | | 16 21 38.0 | | | 18 23 51.3 | |
| 29 | 8 28 31.6 | | | 10 30 44.7 | | | 12 25 4.7 | | | 14 27 17.9 | | | 16 25 34.6 | | | 18 27 47.8 | |
| 30 | 8 32 28.1 | | | 10 34 41.3 | | | 12 29 1.3 | | | 14 31 14.5 | | | 16 29 31.1 | | | 18 31 44.4 | |
| 31 | 8 36 24.7 | | | 10 38 37.8 | | | 12 32 57.9 | | | 14 35 11.0 | | | 16 33 27.7 | | | 18 35 40.9 | |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| m m | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s |
| 0 0 0.0 | 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 0.0 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 |
| 5 0 0.8 | 0 10.7 | 0 20.5 | 0 30.4 | 0 40.2 | 0 50.1 | 1 0.0 | 1 9.8 | 1 19.7 | 1 29.5 | 1 39.4 | 1 49.2 | P. P. |
| 10 0 1.6 | 0 11.5 | 0 21.4 | 0 31.2 | 0 41.1 | 0 50.9 | 1 0.8 | 1 10.6 | 1 20.5 | 1 30.4 | 1 40.2 | 1 50.1 | |
| 15 0 2.5 | 0 12.3 | 0 22.2 | 0 32.0 | 0 41.9 | 0 51.7 | 1 1.6 | 1 11.5 | 1 21.3 | 1 31.2 | 1 41.0 | 1 50.9 | |
| 20 0 3.3 | 0 13.1 | 0 23.0 | 0 32.9 | 0 42.7 | 0 52.6 | 1 2.4 | 1 12.3 | 1 22.1 | 1 32.0 | 1 41.8 | 1 51.7 | m 1 0.2 |
| 25 0 4.1 | 0 14.0 | 0 23.8 | 0 33.7 | 0 43.5 | 0 53.4 | 1 3.2 | 1 13.1 | 1 23.0 | 1 32.8 | 1 42.7 | 1 52.5 | 2 0.3 |
| 30 0 4.9 | 0 14.8 | 0 24.6 | 0 34.5 | 0 44.4 | 0 54.2 | 1 4.1 | 1 13.9 | 1 23.8 | 1 33.6 | 1 43.5 | 1 53.3 | 3 0.5 |
| 35 0 5.8 | 0 15.6 | 0 25.5 | 0 35.3 | 0 45.2 | 0 55.0 | 1 4.9 | 1 14.7 | 1 24.6 | 1 34.5 | 1 44.3 | 1 54.2 | 4 0.7 |
| 40 0 6.6 | 0 16.4 | 0 26.3 | 0 36.1 | 0 46.0 | 0 55.9 | 1 5.7 | 1 15.6 | 1 25.4 | 1 35.3 | 1 45.1 | 1 55.0 | 5 0.8 |
| 45 0 7.4 | 0 17.2 | 0 27.1 | 0 37.0 | 0 46.8 | 0 56.7 | 1 6.5 | 1 16.4 | 1 26.2 | 1 36.1 | 1 46.0 | 1 55.8 | |
| 50 0 8.2 | 0 18.1 | 0 27.9 | 0 37.8 | 0 47.6 | 0 57.5 | 1 7.4 | 1 17.2 | 1 27.1 | 1 36.9 | 1 46.8 | 1 56.6 | |
| 55 0 9.0 | 0 18.9 | 0 28.7 | 0 38.6 | 0 48.5 | 0 58.3 | 1 8.2 | 1 18.0 | 1 27.9 | 1 37.7 | 1 47.6 | 1 57.5 | |
| 60 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 | 1 58.3 | |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|--------|----|------|-----------|----|------|---------|----|------|----------|----|------|----------|----|------|
| | July | | | August | | | September | | | October | | | November | | | December | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 18 | 35 | 40.9 | 20 | 37 | 54.2 | 22 | 40 | 7.4 | 0 | 38 | 23.9 | 2 | 40 | 37.1 | 4 | 38 | 53.8 |
| 2 | 18 | 39 | 37.5 | 20 | 41 | 50.7 | 22 | 44 | 3.9 | 0 | 42 | 20.5 | 2 | 44 | 33.6 | 4 | 42 | 50.3 |
| 3 | 18 | 43 | 34.0 | 20 | 45 | 47.3 | 22 | 48 | 0.5 | 0 | 46 | 17.0 | 2 | 48 | 30.2 | 4 | 46 | 46.9 |
| 4 | 18 | 47 | 30.6 | 20 | 49 | 43.9 | 22 | 51 | 57.0 | 0 | 50 | 13.6 | 2 | 52 | 26.8 | 4 | 50 | 43.5 |
| 5 | 18 | 51 | 27.2 | 20 | 53 | 40.4 | 22 | 55 | 53.6 | 0 | 54 | 10.1 | 2 | 56 | 23.3 | 4 | 54 | 40.0 |
| 6 | 18 | 55 | 23.7 | 20 | 57 | 37.0 | 22 | 59 | 50.1 | 0 | 58 | 6.7 | 3 | 0 | 19.9 | 4 | 58 | 36.6 |
| 7 | 18 | 59 | 20.3 | 21 | 1 | 33.5 | 23 | 3 | 46.7 | 1 | 2 | 3.3 | 3 | 4 | 16.4 | 5 | 2 | 33.1 |
| 8 | 19 | 3 | 16.8 | 21 | 5 | 30.1 | 23 | 7 | 43.2 | 1 | 5 | 59.8 | 3 | 8 | 13.0 | 5 | 6 | 29.7 |
| 9 | 19 | 7 | 13.4 | 21 | 9 | 26.6 | 23 | 11 | 39.8 | 1 | 9 | 56.4 | 3 | 12 | 9.5 | 5 | 10 | 26.2 |
| 10 | 19 | 11 | 10.0 | 21 | 13 | 23.2 | 23 | 15 | 36.3 | 1 | 13 | 52.9 | 3 | 16 | 6.1 | 5 | 14 | 22.8 |
| 11 | 19 | 15 | 6.5 | 21 | 17 | 19.7 | 23 | 19 | 32.9 | 1 | 17 | 49.5 | 3 | 20 | 2.6 | 5 | 18 | 19.3 |
| 12 | 19 | 19 | 3.1 | 21 | 21 | 16.3 | 23 | 23 | 29.5 | 1 | 21 | 46.0 | 3 | 23 | 59.2 | 5 | 22 | 15.9 |
| 13 | 19 | 22 | 59.6 | 21 | 25 | 12.8 | 23 | 27 | 26.0 | 1 | 25 | 42.6 | 3 | 27 | 55.7 | 5 | 26 | 12.4 |
| 14 | 19 | 26 | 56.2 | 21 | 29 | 9.4 | 23 | 31 | 22.6 | 1 | 29 | 39.1 | 3 | 31 | 52.3 | 5 | 30 | 9.0 |
| 15 | 19 | 30 | 52.7 | 21 | 33 | 6.0 | 23 | 35 | 19.1 | 1 | 33 | 35.7 | 3 | 35 | 48.9 | 5 | 34 | 5.6 |
| 16 | 19 | 34 | 49.3 | 21 | 37 | 2.5 | 23 | 39 | 15.7 | 1 | 37 | 32.2 | 3 | 39 | 45.4 | 5 | 38 | 2.1 |
| 17 | 19 | 38 | 45.8 | 21 | 40 | 59.1 | 23 | 43 | 12.2 | 1 | 41 | 28.8 | 3 | 43 | 42.0 | 5 | 41 | 58.7 |
| 18 | 19 | 42 | 42.4 | 21 | 44 | 55.6 | 23 | 47 | 8.8 | 1 | 45 | 25.3 | 3 | 47 | 38.5 | 5 | 45 | 55.3 |
| 19 | 19 | 46 | 39.0 | 21 | 48 | 52.2 | 23 | 51 | 5.3 | 1 | 49 | 21.9 | 3 | 51 | 35.1 | 5 | 49 | 51.8 |
| 20 | 19 | 50 | 35.5 | 21 | 52 | 48.7 | 23 | 55 | 1.9 | 1 | 53 | 18.4 | 3 | 55 | 31.6 | 5 | 53 | 48.4 |
| 21 | 19 | 54 | 32.1 | 21 | 56 | 45.3 | 23 | 58 | 58.4 | 1 | 57 | 15.0 | 3 | 59 | 28.2 | 5 | 57 | 44.9 |
| 22 | 19 | 58 | 28.6 | 22 | 0 | 41.8 | 0 | 2 | 55.0 | 2 | 1 | 11.5 | 4 | 3 | 24.8 | 6 | 1 | 41.5 |
| 23 | 20 | 2 | 25.2 | 22 | 4 | 38.4 | 0 | 6 | 51.5 | 2 | 5 | 8.1 | 4 | 7 | 21.3 | 6 | 5 | 38.0 |
| 24 | 20 | 6 | 21.7 | 22 | 8 | 34.9 | 0 | 10 | 48.1 | 2 | 9 | 4.7 | 4 | 11 | 17.9 | 6 | 9 | 34.6 |
| 25 | 20 | 10 | 18.3 | 22 | 12 | 31.5 | 0 | 14 | 44.6 | 2 | 13 | 1.2 | 4 | 15 | 14.4 | 6 | 13 | 31.1 |
| 26 | 20 | 14 | 14.9 | 22 | 16 | 28.0 | 0 | 18 | 41.2 | 2 | 16 | 57.8 | 4 | 19 | 11.0 | 6 | 17 | 27.7 |
| 27 | 20 | 18 | 11.4 | 22 | 20 | 24.6 | 0 | 22 | 37.7 | 2 | 20 | 54.3 | 4 | 23 | 7.5 | 6 | 21 | 24.3 |
| 28 | 20 | 22 | 8.0 | 22 | 24 | 21.1 | 0 | 26 | 34.3 | 2 | 24 | 50.9 | 4 | 27 | 4.1 | 6 | 25 | 20.8 |
| 29 | 20 | 26 | 4.5 | 22 | 28 | 17.7 | 0 | 30 | 30.8 | 2 | 28 | 47.4 | 4 | 31 | 0.6 | 6 | 29 | 17.4 |
| 30 | 20 | 30 | 1.1 | 22 | 32 | 14.3 | 0 | 34 | 27.4 | 2 | 32 | 44.0 | 4 | 34 | 57.2 | 6 | 33 | 14.0 |
| 31 | 20 | 33 | 57.6 | 22 | 36 | 10.8 | 0 | 38 | 23.9 | 2 | 36 | 40.5 | 4 | 38 | 53.8 | 6 | 37 | 10.5 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longi- tude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | P. P. | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|------|
| m | m | s | m | m | s | m | s | m | s | m | s | m | s | |
| 0 | 1 | 58.3 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 3 | 7.3 |
| 5 | 1 | 59.1 | 2 | 9.0 | 2 | 18.8 | 2 | 28.7 | 2 | 38.5 | 2 | 48.4 | 2 | 58.2 |
| 10 | 1 | 59.9 | 2 | 9.8 | 2 | 19.6 | 2 | 29.5 | 2 | 39.3 | 2 | 49.2 | 2 | 59.1 |
| 15 | 2 | 0.7 | 2 | 10.6 | 2 | 20.5 | 2 | 30.3 | 2 | 40.2 | 2 | 50.0 | 2 | 59.9 |
| 20 | 2 | 1.6 | 2 | 11.4 | 2 | 21.3 | 2 | 31.1 | 2 | 41.0 | 2 | 50.8 | 3 | 0.7 |
| 25 | 2 | 2.4 | 2 | 12.2 | 2 | 22.1 | 2 | 32.0 | 2 | 41.8 | 2 | 51.7 | 3 | 1.5 |
| 30 | 2 | 3.2 | 2 | 13.1 | 2 | 22.9 | 2 | 32.8 | 2 | 42.6 | 2 | 52.5 | 3 | 2.3 |
| 35 | 2 | 4.0 | 2 | 13.9 | 2 | 23.7 | 2 | 33.6 | 2 | 43.5 | 2 | 53.3 | 3 | 3.2 |
| 40 | 2 | 4.8 | 2 | 14.7 | 2 | 24.6 | 2 | 34.4 | 2 | 44.3 | 2 | 54.1 | 3 | 4.0 |
| 45 | 2 | 5.7 | 2 | 15.5 | 2 | 25.4 | 2 | 35.2 | 2 | 45.1 | 2 | 55.0 | 3 | 4.8 |
| 50 | 2 | 6.5 | 2 | 16.3 | 2 | 26.2 | 2 | 36.1 | 2 | 45.9 | 2 | 55.8 | 3 | 5.6 |
| 55 | 2 | 7.3 | 2 | 17.2 | 2 | 27.0 | 2 | 36.9 | 2 | 46.7 | 2 | 56.6 | 3 | 6.5 |
| 60 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | 3 | 7.3 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

SUN, JANUARY 1944

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. |
|--------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|
| Saturday 1 | | | | | | | | | |
| 0 | -3 0.1 | -23 6.5 | 179 15.0 | -4 52.6 | -22 45.4 | 178 46.9 | -6 38.3 | -22 17.2 | 178 20.4 |
| 2 | 3 2.5 | 23 6.1 | 209 14.4 | 4 54.8 | 22 44.9 | 208 46.3 | 6 40.4 | 22 16.5 | 208 19.9 |
| 4 | 3 4.9 | 23 5.8 | 239 13.8 | 4 57.1 | 22 44.4 | 238 45.7 | 6 42.5 | 22 15.8 | 238 19.4 |
| 6 | 3 7.3 | 23 5.4 | 269 13.2 | 4 59.4 | 22 43.9 | 268 45.2 | 6 44.6 | 22 15.2 | 268 18.8 |
| 8 | 3 9.7 | 23 5.0 | 299 12.6 | 5 1.6 | 22 43.4 | 298 44.6 | 6 46.7 | 22 14.5 | 298 18.3 |
| 10 | 3 12.1 | 23 4.6 | 329 12.0 | 5 3.9 | 22 42.8 | 328 44.0 | 6 48.8 | 22 13.8 | 328 17.8 |
| 12 | 3 14.5 | 23 4.3 | 359 11.4 | 5 6.2 | 22 42.3 | 358 43.5 | 6 50.9 | 22 13.1 | 358 17.3 |
| 14 | 3 16.9 | 23 3.9 | 29 10.8 | 5 8.4 | 22 41.8 | 28 42.9 | 6 53.0 | 22 12.5 | 28 16.7 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... |
| Sunday 2 | | | | | | | | | |
| 0 | -3 28.8 | -23 1.9 | 179 7.8 | -5 19.7 | -22 39.0 | 178 40.1 | -7 3.5 | -22 9.0 | 178 14.1 |
| 2 | 3 31.1 | 23 1.5 | 209 7.2 | 5 21.9 | 22 38.5 | 208 39.5 | 7 5.6 | 22 8.3 | 208 13.6 |
| 4 | 3 33.5 | 23 1.1 | 239 6.6 | 5 24.2 | 22 37.9 | 238 39.0 | 7 7.6 | 22 7.6 | 238 13.1 |
| 6 | 3 35.9 | 23 0.7 | 269 6.0 | 5 26.4 | 22 37.4 | 268 38.4 | 7 9.7 | 22 6.9 | 268 12.6 |
| 8 | 3 38.2 | 23 0.3 | 299 5.4 | 5 28.6 | 22 36.8 | 298 37.8 | 7 11.8 | 22 6.2 | 298 12.1 |
| 10 | 3 40.6 | 22 59.9 | 329 4.9 | 5 30.8 | 22 36.2 | 328 37.3 | 7 13.8 | 22 5.5 | 328 11.5 |
| 12 | 3 43.0 | 22 59.5 | 359 4.3 | 5 33.1 | 22 35.7 | 358 36.7 | 7 15.9 | 22 4.8 | 358 11.0 |
| 14 | 3 45.3 | 22 59.0 | 29 3.7 | 5 35.3 | 22 35.1 | 28 36.2 | 7 17.9 | 22 4.0 | 28 10.5 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Monday 3 | | | | | | | | | |
| 0 | -3 57.1 | -22 56.9 | 179 0.7 | -5 46.4 | -22 32.2 | 178 33.4 | -7 28.1 | -22 0.4 | 178 8.0 |
| 2 | 3 59.4 | 22 56.4 | 209 0.1 | 5 48.6 | 22 31.6 | 208 32.9 | 7 30.2 | 21 59.7 | 208 7.5 |
| 4 | 4 1.8 | 22 56.0 | 238 59.6 | 5 50.8 | 22 31.0 | 238 32.3 | 7 32.2 | 21 58.9 | 238 7.0 |
| 6 | 4 4.1 | 22 55.5 | 268 59.0 | 5 53.0 | 22 30.4 | 268 31.8 | 7 34.2 | 21 58.2 | 268 6.4 |
| 8 | 4 6.4 | 22 55.1 | 298 58.4 | 5 55.1 | 22 29.8 | 298 31.2 | 7 36.2 | 21 57.4 | 298 5.9 |
| 10 | 4 8.8 | 22 54.6 | 328 57.8 | 5 57.3 | 22 29.2 | 328 30.7 | 7 38.2 | 21 56.7 | 328 5.4 |
| 12 | 4 11.1 | 22 54.2 | 358 57.2 | 5 59.5 | 22 28.6 | 358 30.1 | 7 40.3 | 21 55.9 | 358 4.9 |
| 14 | 4 13.4 | 22 53.7 | 28 56.6 | 6 1.7 | 22 28.0 | 28 29.6 | 7 42.3 | 21 55.2 | 28 4.4 |
| 16 | 4 15.7 | 22 53.3 | 58 56.1 | 6 3.9 | 22 27.4 | 58 29.0 | 7 44.3 | 21 54.4 | 58 3.9 |
| 18 | 4 18.1 | 22 52.8 | 88 55.5 | 6 6.1 | 22 26.8 | 88 28.5 | 7 46.3 | 21 53.7 | 88 3.4 |
| 20 | 4 20.4 | 22 52.3 | 118 54.9 | 6 8.2 | 22 26.2 | 118 27.9 | 7 48.3 | 21 52.9 | 118 2.9 |
| 22 | 4 22.7 | 22 51.9 | 148 54.3 | 6 10.4 | 22 25.5 | 148 27.4 | 7 50.2 | 21 52.1 | 148 2.4 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Tuesday 4 | | | | | | | | | |
| 0 | -4 25.0 | -22 51.4 | 178 53.7 | -6 12.6 | -22 24.9 | 178 26.9 | -7 52.2 | -21 51.4 | 178 1.9 |
| 2 | 4 27.3 | 22 50.9 | 208 53.2 | 6 14.7 | 22 24.3 | 208 26.3 | 7 54.2 | 21 50.6 | 208 1.4 |
| 4 | 4 29.6 | 22 50.4 | 238 52.6 | 6 16.9 | 22 23.7 | 238 25.8 | 7 56.2 | 21 49.8 | 238 1.0 |
| 6 | 4 31.9 | 22 49.9 | 268 52.0 | 6 19.0 | 22 23.0 | 268 25.2 | 7 58.2 | 21 49.1 | 268 0.5 |
| 8 | 4 34.2 | 22 49.5 | 298 51.4 | 6 21.2 | 22 22.4 | 298 24.7 | 8 0.1 | 21 48.3 | 298 0.0 |
| 10 | 4 36.5 | 22 49.0 | 328 50.9 | 6 23.3 | 22 21.7 | 328 24.2 | 8 2.1 | 21 47.5 | 328 59.5 |
| 12 | 4 38.8 | 22 48.5 | 358 50.3 | 6 25.5 | 22 21.1 | 358 23.6 | 8 4.1 | 21 46.7 | 358 59.0 |
| 14 | 4 41.1 | 22 48.0 | 28 49.7 | 6 27.6 | 22 20.5 | 28 23.1 | 8 6.0 | 21 45.9 | 27 58.5 |
| 16 | 4 43.4 | 22 47.5 | 58 49.1 | 6 29.8 | 22 19.8 | 58 22.6 | 8 8.0 | 21 45.1 | 57 58.0 |
| 18 | 4 45.7 | 22 47.0 | 88 48.6 | 6 31.9 | 22 19.2 | 88 22.0 | 8 9.9 | 21 44.3 | 87 57.5 |
| 20 | 4 48.0 | 22 46.5 | 118 48.0 | 6 34.0 | 22 18.5 | 118 21.5 | 8 11.9 | 21 43.5 | 117 57.0 |
| 22 | -4 50.3 | -22 46.0 | 148 47.4 | -6 36.2 | -22 17.8 | 148 21.0 | -8 13.8 | -21 42.7 | 147 56.5 |
| H. D. | 1.1 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Saturday 8 | | | | | | | | | |
| Wednesday 12 | | | | | | | | | |

NOTE.—The Equation of Time is to be applied to the G. C. T. in accordance with the sign as given.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|------------|--|--|------------|--|--|------------|--|--|------------|--|--|------------|--|
| | January | | | February | | | March | | | April | | | May | | | June | |
| 1 | 6 39 5.5 | | | 8 41 18.8 | | | 10 31 42.3 | | | 12 33 55.4 | | | 14 32 12.0 | | | 16 34 25.2 | |
| 2 | 6 43 2.1 | | | 8 45 15.3 | | | 10 35 38.8 | | | 12 37 51.9 | | | 14 36 8.5 | | | 16 38 21.7 | |
| 3 | 6 46 58.6 | | | 8 49 11.9 | | | 10 39 35.4 | | | 12 41 48.5 | | | 14 40 5.1 | | | 16 42 18.3 | |
| 4 | 6 50 55.2 | | | 8 53 8.4 | | | 10 43 31.9 | | | 12 45 45.0 | | | 14 44 1.6 | | | 16 46 14.9 | |
| 5 | 6 54 51.7 | | | 8 57 5.0 | | | 10 47 28.5 | | | 12 49 41.6 | | | 14 47 58.2 | | | 16 50 11.4 | |
| 6 | 6 58 48.3 | | | 9 1 1.6 | | | 10 51 25.0 | | | 12 53 38.1 | | | 14 51 54.7 | | | 16 54 8.0 | |
| 7 | 7 2 44.9 | | | 9 4 58.1 | | | 10 55 21.6 | | | 12 57 34.7 | | | 14 55 51.3 | | | 16 58 4.5 | |
| 8 | 7 6 41.4 | | | 9 8 54.7 | | | 10 59 18.1 | | | 13 1 31.2 | | | 14 59 47.8 | | | 17 2 1.1 | |
| 9 | 7 10 38.0 | | | 9 12 51.2 | | | 11 3 14.7 | | | 13 5 27.8 | | | 15 3 44.4 | | | 17 5 57.6 | |
| 10 | 7 14 34.5 | | | 9 16 47.8 | | | 11 7 11.2 | | | 13 9 24.3 | | | 15 7 41.0 | | | 17 9 54.2 | |
| 11 | 7 18 31.1 | | | 9 20 44.3 | | | 11 11 7.8 | | | 13 13 20.9 | | | 15 11 37.5 | | | 17 13 50.8 | |
| 12 | 7 22 27.6 | | | 9 24 40.9 | | | 11 15 4.3 | | | 13 17 17.5 | | | 15 15 34.1 | | | 17 17 47.3 | |
| 13 | 7 26 24.2 | | | 9 28 37.4 | | | 11 19 0.9 | | | 13 21 14.0 | | | 15 19 30.6 | | | 17 21 43.9 | |
| 14 | 7 30 20.8 | | | 9 32 34.0 | | | 11 22 57.4 | | | 13 25 10.6 | | | 15 23 27.2 | | | 17 25 40.4 | |
| 15 | 7 34 17.3 | | | 9 36 30.5 | | | 11 26 54.0 | | | 13 29 7.1 | | | 15 27 23.7 | | | 17 29 37.0 | |
| 16 | 7 38 13.9 | | | 9 40 27.1 | | | 11 30 50.6 | | | 13 33 3.7 | | | 15 31 20.3 | | | 17 33 33.5 | |
| 17 | 7 42 10.4 | | | 9 44 23.6 | | | 11 34 47.1 | | | 13 37 0.2 | | | 15 35 16.8 | | | 17 37 30.1 | |
| 18 | 7 46 7.0 | | | 9 48 20.2 | | | 11 38 43.7 | | | 13 40 56.8 | | | 15 39 13.4 | | | 17 41 26.6 | |
| 19 | 7 50 3.5 | | | 9 52 16.7 | | | 11 42 40.2 | | | 13 44 53.3 | | | 15 43 9.9 | | | 17 45 23.2 | |
| 20 | 7 54 0.1 | | | 9 56 13.3 | | | 11 46 36.8 | | | 13 48 49.9 | | | 15 47 6.5 | | | 17 49 19.8 | |
| 21 | 7 57 56.7 | | | 10 0 9.8 | | | 11 50 33.3 | | | 13 52 46.4 | | | 15 51 3.1 | | | 17 53 16.3 | |
| 22 | 8 1 53.2 | | | 10 4 6.4 | | | 11 54 29.9 | | | 13 56 43.0 | | | 15 54 59.6 | | | 17 57 12.9 | |
| 23 | 8 5 49.8 | | | 10 8 2.9 | | | 11 58 26.4 | | | 14 0 39.5 | | | 15 58 56.2 | | | 18 1 9.4 | |
| 24 | 8 9 46.3 | | | 10 11 59.5 | | | 12 2 23.0 | | | 14 4 36.1 | | | 16 2 52.7 | | | 18 5 6.0 | |
| 25 | 8 13 42.9 | | | 10 15 56.0 | | | 12 6 19.5 | | | 14 8 32.6 | | | 16 6 49.3 | | | 18 9 2.6 | |
| 26 | 8 17 39.4 | | | 10 19 52.6 | | | 12 10 16.1 | | | 14 12 29.2 | | | 16 10 45.9 | | | 18 12 59.1 | |
| 27 | 8 21 36.0 | | | 10 23 49.1 | | | 12 14 12.6 | | | 14 16 25.8 | | | 16 14 42.4 | | | 18 16 55.7 | |
| 28 | 8 25 32.5 | | | 10 27 45.7 | | | 12 18 9.2 | | | 14 20 22.3 | | | 16 18 39.0 | | | 18 20 52.2 | |
| 29 | 8 29 29.1 | | | 10 31 42.3 | | | 12 22 5.7 | | | 14 24 18.9 | | | 16 22 35.5 | | | 18 24 48.8 | |
| 30 | 8 33 25.6 | | | 10 35 38.8 | | | 12 26 2.3 | | | 14 28 15.4 | | | 16 26 32.1 | | | 18 28 45.3 | |
| 31 | 8 37 22.2 | | | 10 39 35.4 | | | 12 29 58.8 | | | 14 32 12.0 | | | 16 30 28.6 | | | 18 32 41.9 | |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| m | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s |
| 0 | 0 0 0 | 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 |
| 5 | 0 0.8 | 0 10.7 | 0 20.5 | 0 30.4 | 0 40.2 | 0 50.1 | 1 0.0 | 1 9.8 | 1 19.7 | 1 29.5 | 1 39.4 | 1 49.2 |
| 10 | 0 1.6 | 0 11.5 | 0 21.4 | 0 31.2 | 0 41.1 | 0 50.9 | 1 0.8 | 1 10.6 | 1 20.5 | 1 30.4 | 1 40.2 | 1 50.1 |
| 15 | 0 2.5 | 0 12.3 | 0 22.2 | 0 32.0 | 0 41.9 | 0 51.7 | 1 1.6 | 1 11.5 | 1 21.3 | 1 31.2 | 1 41.0 | 1 50.9 |
| 20 | 0 3.3 | 0 13.1 | 0 23.0 | 0 32.9 | 0 42.7 | 0 52.6 | 1 2.4 | 1 12.3 | 1 22.1 | 1 32.0 | 1 41.8 | 1 51.7 |
| 25 | 0 4.1 | 0 14.0 | 0 23.8 | 0 33.7 | 0 43.5 | 0 53.4 | 1 3.2 | 1 13.1 | 1 23.0 | 1 32.8 | 1 42.7 | 1 52.5 |
| 30 | 0 4.9 | 0 14.8 | 0 24.6 | 0 34.5 | 0 44.4 | 0 54.2 | 1 4.1 | 1 13.9 | 1 23.8 | 1 33.6 | 1 43.5 | 1 53.3 |
| 35 | 0 5.8 | 0 15.6 | 0 25.5 | 0 35.3 | 0 45.2 | 0 55.0 | 1 4.9 | 1 14.7 | 1 24.6 | 1 34.5 | 1 44.3 | 1 54.2 |
| 40 | 0 6.6 | 0 16.4 | 0 26.3 | 0 36.1 | 0 46.0 | 0 55.9 | 1 5.7 | 1 15.6 | 1 25.4 | 1 35.3 | 1 45.1 | 1 55.0 |
| 45 | 0 7.4 | 0 17.2 | 0 27.1 | 0 37.0 | 0 46.8 | 0 56.7 | 1 6.5 | 1 16.4 | 1 26.2 | 1 36.1 | 1 46.0 | 1 55.8 |
| 50 | 0 8.2 | 0 18.1 | 0 27.9 | 0 37.8 | 0 47.6 | 0 57.5 | 1 7.4 | 1 17.2 | 1 27.1 | 1 36.9 | 1 46.8 | 1 56.6 |
| 55 | 0 9.0 | 0 18.9 | 0 28.7 | 0 38.6 | 0 48.5 | 0 58.3 | 1 8.2 | 1 18.0 | 1 27.9 | 1 37.7 | 1 47.6 | 1 57.5 |
| 60 | 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 | 1 58.3 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|--------|----|------|-----------|----|------|---------|----|------|----------|----|------|----------|----|------|
| | July | | | August | | | September | | | October | | | November | | | December | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 18 | 32 | 41.9 | 20 | 34 | 55.1 | 22 | 37 | 8.3 | 0 | 35 | 24.9 | 2 | 37 | 38.0 | 4 | 35 | 54.7 |
| 2 | 18 | 36 | 38.5 | 20 | 38 | 51.7 | 22 | 41 | 4.9 | 0 | 39 | 21.4 | 2 | 41 | 34.6 | 4 | 39 | 51.2 |
| 3 | 18 | 40 | 35.0 | 20 | 42 | 48.3 | 22 | 45 | 1.4 | 0 | 43 | 18.0 | 2 | 45 | 31.1 | 4 | 43 | 47.8 |
| 4 | 18 | 44 | 31.6 | 20 | 46 | 44.8 | 22 | 48 | 58.0 | 0 | 47 | 14.5 | 2 | 49 | 27.7 | 4 | 47 | 44.9 |
| 5 | 18 | 48 | 28.1 | 20 | 50 | 41.4 | 22 | 52 | 54.5 | 0 | 51 | 11.1 | 2 | 53 | 24.2 | 4 | 51 | 40.9 |
| 6 | 18 | 52 | 24.7 | 20 | 54 | 37.9 | 22 | 56 | 51.1 | 0 | 55 | 7.6 | 2 | 57 | 20.8 | 4 | 55 | 37.5 |
| 7 | 18 | 56 | 21.2 | 20 | 58 | 34.5 | 23 | 0 | 47.6 | 0 | 59 | 4.2 | 3 | 1 | 17.3 | 4 | 59 | 34.0 |
| 8 | 19 | 0 | 17.8 | 21 | 2 | 31.0 | 23 | 4 | 44.2 | 1 | 3 | 0.7 | 3 | 5 | 13.9 | 5 | 3 | 30.6 |
| 9 | 19 | 4 | 14.3 | 21 | 6 | 27.6 | 23 | 8 | 40.7 | 1 | 6 | 57.3 | 3 | 9 | 10.4 | 5 | 7 | 27.1 |
| 10 | 19 | 8 | 10.9 | 21 | 10 | 24.1 | 23 | 12 | 37.3 | 1 | 10 | 53.9 | 3 | 13 | 7.0 | 5 | 11 | 23.7 |
| 11 | 19 | 12 | 7.4 | 21 | 14 | 20.7 | 23 | 16 | 33.8 | 1 | 14 | 50.4 | 3 | 17 | 3.5 | 5 | 15 | 20.2 |
| 12 | 19 | 16 | 4.0 | 21 | 18 | 17.2 | 23 | 20 | 30.4 | 1 | 18 | 47.0 | 3 | 21 | 0.1 | 5 | 19 | 16.8 |
| 13 | 19 | 20 | 0.6 | 21 | 22 | 13.8 | 23 | 24 | 26.9 | 1 | 22 | 43.5 | 3 | 24 | 56.7 | 5 | 23 | 13.4 |
| 14 | 19 | 23 | 57.1 | 21 | 26 | 10.4 | 23 | 28 | 23.5 | 1 | 26 | 40.0 | 3 | 28 | 53.2 | 5 | 27 | 9.9 |
| 15 | 19 | 27 | 53.7 | 21 | 30 | 6.9 | 23 | 32 | 20.0 | 1 | 30 | 36.6 | 3 | 32 | 49.8 | 5 | 31 | 6.5 |
| 16 | 19 | 31 | 50.2 | 21 | 34 | 3.5 | 23 | 36 | 16.6 | 1 | 34 | 33.1 | 3 | 36 | 46.3 | 5 | 35 | 3.0 |
| 17 | 19 | 35 | 46.8 | 21 | 38 | 0.0 | 23 | 40 | 18.1 | 1 | 38 | 29.7 | 3 | 40 | 42.9 | 5 | 38 | 59.6 |
| 18 | 19 | 39 | 43.4 | 21 | 41 | 56.6 | 23 | 44 | 9.7 | 1 | 42 | 26.3 | 3 | 44 | 39.5 | 5 | 42 | 56.2 |
| 19 | 19 | 43 | 39.9 | 21 | 45 | 53.1 | 23 | 48 | 6.2 | 1 | 46 | 22.8 | 3 | 48 | 36.0 | 5 | 46 | 52.7 |
| 20 | 19 | 47 | 36.5 | 21 | 49 | 49.7 | 23 | 52 | 2.8 | 1 | 50 | 19.4 | 3 | 52 | 32.6 | 5 | 50 | 49.3 |
| 21 | 19 | 51 | 33.0 | 21 | 53 | 46.2 | 23 | 55 | 59.4 | 1 | 54 | 15.9 | 3 | 56 | 29.1 | 5 | 54 | 45.8 |
| 22 | 19 | 55 | 29.6 | 21 | 57 | 42.8 | 23 | 59 | 55.9 | 1 | 58 | 12.5 | 4 | 0 | 25.7 | 5 | 58 | 42.4 |
| 23 | 19 | 59 | 26.1 | 22 | 1 | 39.3 | 0 | 3 | 52.5 | 2 | 2 | 9.0 | 4 | 4 | 22.2 | 6 | 2 | 38.9 |
| 24 | 20 | 3 | 22.7 | 22 | 5 | 35.9 | 0 | 7 | 49.0 | 2 | 6 | 5.6 | 4 | 8 | 18.8 | 6 | 6 | 35.5 |
| 25 | 20 | 7 | 19.2 | 22 | 9 | 32.4 | 0 | 11 | 45.6 | 2 | 10 | 2.1 | 4 | 12 | 15.3 | 6 | 10 | 32.0 |
| 26 | 20 | 11 | 15.8 | 22 | 13 | 29.0 | 0 | 15 | 42.1 | 2 | 13 | 58.7 | 4 | 16 | 11.9 | 6 | 14 | 28.6 |
| 27 | 20 | 15 | 12.4 | 22 | 17 | 25.5 | 0 | 19 | 38.7 | 2 | 17 | 55.2 | 4 | 20 | 8.4 | 6 | 18 | 25.2 |
| 28 | 20 | 19 | 8.9 | 22 | 21 | 22.1 | 0 | 23 | 35.2 | 2 | 21 | 51.8 | 4 | 24 | 5.0 | 6 | 22 | 21.7 |
| 29 | 20 | 23 | 5.5 | 22 | 25 | 18.7 | 0 | 27 | 31.8 | 2 | 25 | 48.3 | 4 | 28 | 1.6 | 6 | 26 | 18.3 |
| 30 | 20 | 27 | 2.0 | 22 | 29 | 15.2 | 0 | 31 | 28.3 | 2 | 29 | 44.9 | 4 | 31 | 58.1 | 6 | 30 | 14.9 |
| 31 | 20 | 30 | 58.6 | 22 | 33 | 11.8 | 0 | 35 | 24.9 | 2 | 33 | 41.4 | 4 | 35 | 54.7 | 6 | 34 | 11.4 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | | | | | | | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|------|---|------|---|------|---|------|---|------|---|------|
| m | m | s | m | s | m | s | m | s | m | s | m | s | | | | | | | | | | | | |
| 0 | 1 | 58.3 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | 3 | 7.3 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 |
| 5 | 1 | 59.1 | 2 | 9.0 | 2 | 18.8 | 2 | 28.7 | 2 | 38.5 | 2 | 48.4 | 2 | 58.2 | 3 | 8.1 | 3 | 18.0 | 3 | 27.8 | 3 | 37.7 | 3 | 47.5 |
| 10 | 1 | 59.9 | 2 | 9.8 | 2 | 19.6 | 2 | 29.5 | 2 | 39.3 | 2 | 49.2 | 2 | 59.1 | 3 | 8.9 | 3 | 18.8 | 3 | 28.6 | 3 | 38.5 | 3 | 48.3 |
| 15 | 2 | 0.7 | 2 | 10.6 | 2 | 20.5 | 2 | 30.3 | 2 | 40.2 | 2 | 50.0 | 2 | 59.9 | 3 | 9.7 | 3 | 19.6 | 3 | 29.4 | 3 | 39.3 | 3 | 49.2 |
| 20 | 2 | 1.6 | 2 | 11.4 | 2 | 21.3 | 2 | 31.1 | 2 | 41.0 | 2 | 50.8 | 3 | 0.7 | 3 | 10.6 | 3 | 20.4 | 3 | 30.3 | 3 | 40.1 | 3 | 50.0 |
| 25 | 2 | 2.4 | 2 | 12.2 | 2 | 22.1 | 2 | 32.0 | 2 | 41.8 | 2 | 51.7 | 3 | 1.5 | 3 | 11.4 | 3 | 21.2 | 3 | 31.1 | 3 | 40.9 | 3 | 50.8 |
| 30 | 2 | 3.2 | 2 | 13.1 | 2 | 22.9 | 2 | 32.8 | 2 | 42.6 | 2 | 52.5 | 3 | 2.3 | 3 | 12.2 | 3 | 22.1 | 3 | 31.9 | 3 | 41.8 | 3 | 51.6 |
| 35 | 2 | 4.0 | 2 | 13.9 | 2 | 23.7 | 2 | 33.6 | 2 | 43.5 | 2 | 53.3 | 3 | 3.2 | 3 | 13.0 | 3 | 22.9 | 3 | 32.7 | 3 | 42.6 | 3 | 52.4 |
| 40 | 2 | 4.8 | 2 | 14.7 | 2 | 24.6 | 2 | 34.4 | 2 | 44.3 | 2 | 54.1 | 3 | 4.0 | 3 | 13.8 | 3 | 23.7 | 3 | 33.6 | 3 | 43.4 | 3 | 53.3 |
| 45 | 2 | 5.7 | 2 | 15.5 | 2 | 25.4 | 2 | 35.2 | 2 | 45.1 | 2 | 55.0 | 3 | 4.8 | 3 | 14.7 | 3 | 24.5 | 3 | 34.4 | 3 | 44.2 | 3 | 54.1 |
| 50 | 2 | 6.5 | 2 | 16.3 | 2 | 26.2 | 2 | 36.1 | 2 | 45.9 | 2 | 55.8 | 3 | 5.6 | 3 | 15.5 | 3 | 25.3 | 3 | 35.2 | 3 | 45.1 | 3 | 54.9 |
| 55 | 2 | 7.3 | 2 | 17.2 | 2 | 27.0 | 2 | 36.9 | 2 | 46.7 | 2 | 56.6 | 3 | 6.5 | 3 | 16.3 | 3 | 26.2 | 3 | 36.0 | 3 | 45.9 | 3 | 55.7 |
| 60 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | 3 | 7.3 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 | 3 | 56.6 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

SUN, JANUARY 1943

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Eqn of Time | Sun's Declination | Sun's G. H. A. |
|------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|-------------|----------------------|-------------------|
| Friday 1 | | | | | | | | | |
| h | m s | ° ' | ° ' | m s | ° ' | ° ' | m s | ° ' | ° ' |
| 0 | -3 5.6 | -23 5.4 | 179 13.6 | -4 57.9 | -22 43.9 | 178 45.5 | -6 43.8 | -22 15.2 | 178 19.0 |
| 2 | 3 8.0 | 23 5.0 | 209 13.0 | 5 0.2 | 22 43.4 | 208 45.0 | 6 46.0 | 22 14.5 | 208 18.5 |
| 4 | 3 10.4 | 23 4.7 | 239 12.4 | 5 2.5 | 22 42.9 | 238 44.4 | 6 48.1 | 22 13.9 | 238 18.0 |
| 6 | 3 12.7 | 23 4.3 | 269 11.8 | 5 4.7 | 22 42.3 | 268 43.8 | 6 50.2 | 22 13.2 | 268 17.5 |
| 8 | 3 15.1 | 23 3.9 | 299 11.2 | 5 7.0 | 22 41.8 | 298 43.2 | 6 52.3 | 22 12.5 | 298 16.9 |
| 10 | 3 17.5 | 23 3.5 | 329 10.6 | 5 9.3 | 22 41.3 | 328 42.7 | 6 54.4 | 22 11.8 | 328 16.4 |
| 12 | 3 19.9 | 23 3.1 | 359 10.0 | 5 11.5 | 22 40.7 | 358 42.1 | 6 56.5 | 22 11.1 | 358 15.9 |
| 14 | 3 22.3 | 23 2.7 | 29 9.4 | 5 13.8 | 22 40.2 | 28 41.6 | 6 58.6 | 22 10.4 | 28 15.3 |
| 16 | 3 24.6 | 23 2.3 | 59 8.8 | 5 16.1 | 22 39.6 | 58 41.0 | 7 0.7 | 22 9.8 | 58 14.8 |
| 18 | 3 27.0 | 23 1.9 | 89 8.2 | 5 18.3 | 22 39.1 | 88 40.4 | 7 2.8 | 22 9.1 | 88 14.3 |
| 20 | 3 29.4 | 23 1.5 | 119 7.7 | 5 20.6 | 22 38.5 | 118 39.9 | 7 4.9 | 22 8.4 | 118 13.8 |
| 22 | 3 31.8 | 23 1.1 | 149 7.1 | 5 22.8 | 22 38.0 | 148 39.3 | 7 7.0 | 22 7.7 | 148 13.3 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... |
| Saturday 2 | | | | | | | | | |
| | Wednesday 6 | | | | Sunday 10 | | | | |
| 0 | -3 34.1 | -23 0.7 | 179 6.5 | -5 25.1 | -22 37.4 | 178 38.7 | -7 9.1 | -22 6.9 | 178 12.7 |
| 2 | 3 36.5 | 23 0.3 | 209 5.9 | 5 27.3 | 22 36.8 | 208 38.2 | 7 11.2 | 22 6.2 | 208 12.2 |
| 4 | 3 38.9 | 22 59.9 | 239 5.3 | 5 29.5 | 22 36.3 | 238 37.6 | 7 13.2 | 22 5.5 | 238 11.7 |
| 6 | 3 41.2 | 22 59.5 | 269 4.7 | 5 31.8 | 22 35.7 | 268 37.1 | 7 15.3 | 22 4.8 | 268 11.2 |
| 8 | 3 43.6 | 22 59.0 | 299 4.1 | 5 34.0 | 22 35.1 | 298 36.5 | 7 17.4 | 22 4.1 | 298 10.7 |
| 10 | 3 46.0 | 22 58.6 | 329 3.5 | 5 36.3 | 22 34.6 | 328 35.9 | 7 19.4 | 22 3.4 | 328 10.1 |
| 12 | 3 48.3 | 22 58.2 | 359 2.9 | 5 38.5 | 22 34.0 | 358 35.4 | 7 21.5 | 22 2.6 | 358 9.6 |
| 14 | 3 50.7 | 22 57.8 | 29 2.3 | 5 40.7 | 22 33.4 | 28 34.8 | 7 23.5 | 22 1.9 | 28 9.1 |
| 16 | 3 53.0 | 22 57.3 | 59 1.7 | 5 42.9 | 22 32.8 | 58 34.3 | 7 25.6 | 22 1.2 | 58 8.6 |
| 18 | 3 55.4 | 22 56.9 | 89 1.2 | 5 45.2 | 22 32.2 | 88 33.7 | 7 27.6 | 22 0.5 | 88 8.1 |
| 20 | 3 57.7 | 22 56.5 | 119 0.6 | 5 47.4 | 22 31.6 | 118 33.2 | 7 29.7 | 21 59.7 | 118 7.6 |
| 22 | 4 0.1 | 22 56.0 | 149 0.0 | 5 49.6 | 22 31.1 | 148 32.6 | 7 31.7 | 21 59.0 | 148 7.1 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Sunday 3 | | | | | | | | | |
| | Thursday 7 | | | | Monday 11 | | | | |
| 0 | -4 2.4 | -22 55.6 | 178 59.4 | -5 51.8 | -22 30.5 | 178 32.0 | -7 33.8 | -21 58.2 | 178 6.6 |
| 2 | 4 4.7 | 22 55.1 | 208 58.8 | 5 54.0 | 22 29.9 | 208 31.5 | 7 35.8 | 21 57.5 | 208 6.1 |
| 4 | 4 7.1 | 22 54.7 | 238 58.2 | 5 56.2 | 22 29.3 | 238 30.9 | 7 37.8 | 21 56.7 | 238 5.5 |
| 6 | 4 9.4 | 22 54.2 | 268 57.6 | 5 58.4 | 22 28.6 | 268 30.4 | 7 39.8 | 21 56.0 | 268 5.0 |
| 8 | 4 11.7 | 22 53.8 | 298 57.1 | 6 0.6 | 22 28.0 | 298 29.8 | 7 41.8 | 21 55.2 | 298 4.5 |
| 10 | 4 14.1 | 22 53.3 | 328 56.5 | 6 2.8 | 22 27.4 | 328 29.3 | 7 43.9 | 21 54.5 | 328 4.0 |
| 12 | 4 16.4 | 22 52.8 | 358 55.9 | 6 5.0 | 22 26.8 | 358 28.8 | 7 45.9 | 21 53.7 | 358 3.5 |
| 14 | 4 18.7 | 22 52.4 | 28 55.3 | 6 7.2 | 22 26.2 | 28 28.2 | 7 47.9 | 21 53.0 | 28 3.0 |
| 16 | 4 21.1 | 22 51.9 | 58 54.7 | 6 9.4 | 22 25.6 | 58 27.7 | 7 49.9 | 21 52.2 | 58 2.5 |
| 18 | 4 23.4 | 22 51.4 | 88 54.2 | 6 11.5 | 22 24.9 | 88 27.1 | 7 51.9 | 21 51.4 | 88 2.0 |
| 20 | 4 25.7 | 22 50.9 | 118 53.6 | 6 13.7 | 22 24.3 | 118 26.6 | 7 53.9 | 21 50.7 | 118 1.5 |
| 22 | 4 28.0 | 22 50.5 | 148 53.0 | 6 15.9 | 22 23.7 | 148 26.0 | 7 55.8 | 21 49.9 | 148 1.0 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Monday 4 | | | | | | | | | |
| | Friday 8 | | | | Tuesday 12 | | | | |
| 0 | -4 30.3 | -22 50.0 | 178 52.4 | -6 18.1 | -22 23.1 | 178 25.5 | -7 57.8 | -21 49.1 | 178 0.5 |
| 2 | 4 32.6 | 22 49.5 | 208 51.8 | 6 20.2 | 22 22.4 | 208 24.9 | 7 59.8 | 21 48.3 | 208 0.0 |
| 4 | 4 35.0 | 22 49.0 | 238 51.3 | 6 22.4 | 22 21.8 | 238 24.4 | 8 1.8 | 21 47.5 | 237 59.6 |
| 6 | 4 37.3 | 22 48.5 | 268 50.7 | 6 24.6 | 22 21.1 | 268 23.9 | 8 3.8 | 21 46.8 | 267 59.1 |
| 8 | 4 39.6 | 22 48.0 | 298 50.1 | 6 26.7 | 22 20.5 | 298 23.3 | 8 5.7 | 21 46.0 | 297 58.6 |
| 10 | 4 41.9 | 22 47.5 | 328 49.5 | 6 28.9 | 22 19.8 | 328 22.8 | 8 7.7 | 21 45.2 | 327 58.1 |
| 12 | 4 44.2 | 22 47.0 | 358 49.0 | 6 31.0 | 22 19.2 | 358 22.2 | 8 9.6 | 21 44.4 | 357 57.6 |
| 14 | 4 46.5 | 22 46.5 | 28 48.4 | 6 33.2 | 22 18.5 | 28 21.7 | 8 11.6 | 21 43.6 | 27 57.1 |
| 16 | 4 48.8 | 22 46.0 | 58 47.8 | 6 35.3 | 22 17.9 | 58 21.2 | 8 13.6 | 21 42.8 | 57 56.6 |
| 18 | 4 51.0 | 22 45.5 | 88 47.2 | 6 37.4 | 22 17.2 | 88 20.6 | 8 15.5 | 21 42.0 | 87 56.1 |
| 20 | 4 53.3 | 22 45.0 | 118 46.7 | 6 39.6 | 22 16.6 | 118 20.1 | 8 17.4 | 21 41.2 | 117 55.6 |
| 22 | -4 55.6 | -22 44.4 | 148 46.1 | -6 41.7 | -22 15.9 | 148 19.6 | -8 19.4 | -21 40.4 | 147 55.2 |
| H. D. | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |

NOTE.—The Equation of Time is to be applied to the G. C. T. in accordance with the sign as given.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S. +12 ^h) | | | | | | | | | | | | | | | | |
|--------------------|---|--|--|------------|--|--|------------|--|--|------------|--|--|------------|--|--|------------|--|
| | January | | | February | | | March | | | April | | | May | | | June | |
| 1 | 6 40 3.1 | | | 8 42 16.4 | | | 10 32 39.9 | | | 12 34 53.0 | | | 14 33 9.6 | | | 16 35 22.8 | |
| 2 | 6 43 59.7 | | | 8 46 12.9 | | | 10 36 36.4 | | | 12 38 49.5 | | | 14 37 6.1 | | | 16 39 19.4 | |
| 3 | 6 47 56.3 | | | 8 50 9.5 | | | 10 40 33.0 | | | 12 42 46.1 | | | 14 41 2.7 | | | 16 43 15.9 | |
| 4 | 6 51 52.8 | | | 8 54 6.1 | | | 10 44 29.5 | | | 12 46 42.6 | | | 14 44 59.2 | | | 16 47 12.5 | |
| 5 | 6 55 49.4 | | | 8 58 2.6 | | | 10 48 26.1 | | | 12 50 39.2 | | | 14 48 55.8 | | | 16 51 9.0 | |
| 6 | 6 59 45.9 | | | 9 1 59.2 | | | 10 52 22.6 | | | 12 54 35.7 | | | 14 52 52.4 | | | 16 55 5.6 | |
| 7 | 7 3 42.5 | | | 9 5 55.7 | | | 10 56 19.2 | | | 12 58 32.3 | | | 14 56 48.9 | | | 16 59 2.1 | |
| 8 | 7 7 39.0 | | | 9 9 52.3 | | | 11 0 15.7 | | | 13 2 28.9 | | | 15 0 45.5 | | | 17 2 58.7 | |
| 9 | 7 11 35.6 | | | 9 13 48.8 | | | 11 4 12.3 | | | 13 6 25.4 | | | 15 4 42.0 | | | 17 6 55.2 | |
| 10 | 7 15 32.1 | | | 9 17 45.4 | | | 11 8 8.8 | | | 13 10 22.0 | | | 15 8 38.6 | | | 17 10 51.8 | |
| 11 | 7 19 28.7 | | | 9 21 41.9 | | | 11 12 5.4 | | | 13 14 18.5 | | | 15 12 35.1 | | | 17 14 48.3 | |
| 12 | 7 23 25.3 | | | 9 25 38.5 | | | 11 16 2.0 | | | 13 18 15.1 | | | 15 16 31.7 | | | 17 18 44.9 | |
| 13 | 7 27 21.8 | | | 9 29 35.0 | | | 11 19 58.5 | | | 13 22 11.6 | | | 15 20 28.2 | | | 17 22 41.5 | |
| 14 | 7 31 18.4 | | | 9 33 31.6 | | | 11 23 55.1 | | | 13 26 8.2 | | | 15 24 24.8 | | | 17 26 38.0 | |
| 15 | 7 35 14.9 | | | 9 37 28.2 | | | 11 27 51.6 | | | 13 30 4.7 | | | 15 28 21.3 | | | 17 30 34.6 | |
| 16 | 7 39 11.5 | | | 9 41 24.7 | | | 11 31 48.2 | | | 13 34 1.3 | | | 15 32 17.9 | | | 17 34 31.1 | |
| 17 | 7 43 8.1 | | | 9 45 21.3 | | | 11 35 44.7 | | | 13 37 57.8 | | | 15 36 14.4 | | | 17 38 27.7 | |
| 18 | 7 47 4.6 | | | 9 49 17.8 | | | 11 39 41.3 | | | 13 41 54.4 | | | 15 40 11.0 | | | 17 42 24.3 | |
| 19 | 7 51 1.2 | | | 9 53 14.4 | | | 11 43 37.8 | | | 13 45 50.9 | | | 15 44 7.6 | | | 17 46 20.8 | |
| 20 | 7 54 57.7 | | | 9 57 10.9 | | | 11 47 34.4 | | | 13 49 47.5 | | | 15 48 4.1 | | | 17 50 17.4 | |
| 21 | 7 58 54.3 | | | 10 1 7.5 | | | 11 51 30.9 | | | 13 53 44.0 | | | 15 52 0.7 | | | 17 54 13.9 | |
| 22 | 8 2 50.8 | | | 10 5 4.0 | | | 11 55 27.5 | | | 13 57 40.6 | | | 15 55 57.2 | | | 17 58 10.5 | |
| 23 | 8 6 47.4 | | | 10 9 0.6 | | | 11 59 24.0 | | | 14 1 37.1 | | | 15 59 53.8 | | | 18 2 7.0 | |
| 24 | 8 10 43.9 | | | 10 12 57.1 | | | 12 3 20.6 | | | 14 5 33.7 | | | 16 3 50.3 | | | 18 6 3.6 | |
| 25 | 8 14 40.5 | | | 10 16 53.7 | | | 12 7 17.1 | | | 14 9 30.3 | | | 16 7 46.9 | | | 18 10 0.1 | |
| 26 | 8 18 37.0 | | | 10 20 50.2 | | | 12 11 13.7 | | | 14 13 26.8 | | | 16 11 43.4 | | | 18 13 56.7 | |
| 27 | 8 22 33.6 | | | 10 24 46.8 | | | 12 15 10.2 | | | 14 17 23.4 | | | 16 15 40.0 | | | 18 17 53.3 | |
| 28 | 8 26 30.2 | | | 10 28 43.3 | | | 12 19 6.8 | | | 14 21 19.9 | | | 16 19 36.5 | | | 18 21 49.8 | |
| 29 | 8 30 26.7 | | | 10 32 39.9 | | | 12 23 3.3 | | | 14 25 16.5 | | | 16 23 33.1 | | | 18 25 46.4 | |
| 30 | 8 34 23.3 | | | 10 36 36.4 | | | 12 26 59.9 | | | 14 29 13.0 | | | 16 27 29.7 | | | 18 29 42.9 | |
| 31 | 8 38 19.8 | | | 10 40 33.0 | | | 12 30 56.4 | | | 14 33 9.6 | | | 16 31 26.2 | | | 18 33 39.5 | |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s | m s |
| 0 | 0 0.0 | 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 |
| 5 | 0 0.8 | 0 10.7 | 0 20.5 | 0 30.4 | 0 40.2 | 0 50.1 | 1 0.0 | 1 9.8 | 1 19.7 | 1 29.5 | 1 39.4 | 1 49.2 |
| 10 | 0 1.6 | 0 11.5 | 0 21.4 | 0 31.2 | 0 41.1 | 0 50.9 | 1 0.8 | 1 10.6 | 1 20.5 | 1 30.4 | 1 40.2 | 1 50.1 |
| 15 | 0 2.5 | 0 12.3 | 0 22.2 | 0 32.0 | 0 41.9 | 0 51.7 | 1 1.6 | 1 11.5 | 1 21.3 | 1 31.2 | 1 41.0 | 1 50.9 |
| 20 | 0 3.3 | 0 13.1 | 0 23.0 | 0 32.9 | 0 42.7 | 0 52.6 | 1 2.4 | 1 12.3 | 1 22.1 | 1 32.0 | 1 41.8 | 1 51.7 |
| 25 | 0 4.1 | 0 14.0 | 0 23.8 | 0 33.7 | 0 43.5 | 0 53.4 | 1 3.2 | 1 13.1 | 1 23.0 | 1 32.8 | 1 42.7 | 1 52.5 |
| 30 | 0 4.9 | 0 14.8 | 0 24.6 | 0 34.5 | 0 44.4 | 0 54.2 | 1 4.1 | 1 13.9 | 1 23.8 | 1 33.6 | 1 43.5 | 1 53.3 |
| 35 | 0 5.8 | 0 15.6 | 0 25.5 | 0 35.3 | 0 45.2 | 0 55.0 | 1 4.9 | 1 14.7 | 1 24.6 | 1 34.5 | 1 44.3 | 1 54.2 |
| 40 | 0 6.6 | 0 16.4 | 0 26.3 | 0 36.1 | 0 46.0 | 0 55.9 | 1 5.7 | 1 15.6 | 1 25.4 | 1 35.3 | 1 45.1 | 1 55.0 |
| 45 | 0 7.4 | 0 17.2 | 0 27.1 | 0 37.0 | 0 46.8 | 0 56.7 | 1 6.5 | 1 16.4 | 1 26.2 | 1 36.1 | 1 46.0 | 1 55.8 |
| 50 | 0 8.2 | 0 18.1 | 0 27.9 | 0 37.8 | 0 47.6 | 0 57.5 | 1 7.4 | 1 17.2 | 1 27.1 | 1 36.9 | 1 46.8 | 1 56.6 |
| 55 | 0 9.0 | 0 18.9 | 0 28.7 | 0 38.6 | 0 48.5 | 0 58.3 | 1 8.2 | 1 18.0 | 1 27.9 | 1 37.7 | 1 47.6 | 1 57.5 |
| 60 | 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 | 1 58.3 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S. +12 ^h) | | | | | | | | | | | | | | | | |
|--------------------|---|------------|------------|-----------|-----------|-----------|-----------|--|--|---------|--|--|----------|--|--|----------|--|
| | July | | | August | | | September | | | October | | | November | | | December | |
| 1 | h m s | 18 33 39.5 | 20 35 52.7 | 22 38 5.9 | 0 36 22.4 | 2 38 35.6 | 4 36 52.2 | | | | | | | | | | |
| 2 | 18 37 36.1 | 20 39 49.3 | 22 42 2.4 | 0 40 19.0 | 2 42 32.1 | 4 40 48.8 | | | | | | | | | | | |
| 3 | 18 41 32.6 | 20 43 45.8 | 22 45 59.0 | 0 44 15.6 | 2 46 28.7 | 4 44 45.3 | | | | | | | | | | | |
| 4 | 18 45 29.2 | 20 47 42.4 | 22 49 55.5 | 0 48 12.1 | 2 50 25.2 | 4 48 41.9 | | | | | | | | | | | |
| 5 | 18 49 25.7 | 20 51 38.9 | 22 53 52.1 | 0 52 8.7 | 2 54 21.8 | 4 52 38.5 | | | | | | | | | | | |
| 6 | 18 53 22.3 | 20 55 35.5 | 22 57 48.7 | 0 56 5.2 | 2 58 18.3 | 4 56 35.0 | | | | | | | | | | | |
| 7 | 18 57 18.8 | 20 59 32.0 | 23 1 45.2 | 1 0 1.8 | 3 2 14.9 | 5 0 31.6 | | | | | | | | | | | |
| 8 | 19 1 15.4 | 21 3 28.6 | 23 5 41.8 | 1 3 58.3 | 3 6 11.4 | 5 4 28.1 | | | | | | | | | | | |
| 9 | 19 5 11.9 | 21 7 25.2 | 23 9 38.3 | 1 7 54.9 | 3 10 8.0 | 5 8 24.7 | | | | | | | | | | | |
| 10 | 19 9 8.5 | 21 11 21.7 | 23 13 34.9 | 1 11 51.4 | 3 14 4.6 | 5 12 21.3 | | | | | | | | | | | |
| 11 | 19 13 5.1 | 21 15 18.3 | 23 17 31.4 | 1 15 48.0 | 3 18 1.1 | 5 16 17.8 | | | | | | | | | | | |
| 12 | 19 17 1.6 | 21 19 14.8 | 23 21 28.0 | 1 19 44.5 | 3 21 57.7 | 5 20 14.4 | | | | | | | | | | | |
| 13 | 19 20 58.2 | 21 23 11.4 | 23 25 24.5 | 1 23 41.1 | 3 25 54.2 | 5 24 10.9 | | | | | | | | | | | |
| 14 | 19 24 54.7 | 21 27 7.9 | 23 29 21.1 | 1 27 37.6 | 3 29 50.8 | 5 28 7.5 | | | | | | | | | | | |
| 15 | 19 28 51.3 | 21 31 4.5 | 23 33 17.6 | 1 31 34.2 | 3 33 47.4 | 5 32 4.0 | | | | | | | | | | | |
| 16 | 19 32 47.8 | 21 35 1.0 | 23 37 14.2 | 1 35 30.7 | 3 37 43.9 | 5 36 0.6 | | | | | | | | | | | |
| 17 | 19 36 44.4 | 21 38 57.6 | 23 41 10.7 | 1 39 27.3 | 3 41 40.5 | 5 39 57.2 | | | | | | | | | | | |
| 18 | 19 40 40.9 | 21 42 54.1 | 23 45 7.3 | 1 43 23.8 | 3 45 37.0 | 5 43 53.7 | | | | | | | | | | | |
| 19 | 19 44 37.5 | 21 46 50.7 | 23 49 3.8 | 1 47 20.4 | 3 49 33.6 | 5 47 50.3 | | | | | | | | | | | |
| 20 | 19 48 34.1 | 21 50 47.2 | 23 53 0.4 | 1 51 17.0 | 3 53 30.1 | 5 51 46.8 | | | | | | | | | | | |
| 21 | 19 52 30.6 | 21 54 43.8 | 23 56 56.9 | 1 55 13.5 | 3 57 26.7 | 5 55 43.4 | | | | | | | | | | | |
| 22 | 19 56 27.2 | 21 58 40.4 | 0 0 53.5 | 1 59 10.0 | 4 1 23.2 | 5 59 39.9 | | | | | | | | | | | |
| 23 | 20 0 23.7 | 22 2 36.9 | 0 4 50.0 | 2 3 6.6 | 4 5 19.8 | 6 3 36.5 | | | | | | | | | | | |
| 24 | 20 4 20.3 | 22 6 33.5 | 0 8 46.6 | 2 7 3.1 | 4 9 16.3 | 6 7 33.1 | | | | | | | | | | | |
| 25 | 20 8 16.8 | 22 10 30.0 | 0 12 43.1 | 2 10 59.7 | 4 13 12.9 | 6 11 29.6 | | | | | | | | | | | |
| 26 | 20 12 13.4 | 22 14 26.6 | 0 16 39.7 | 2 14 56.3 | 4 17 9.5 | 6 15 26.2 | | | | | | | | | | | |
| 27 | 20 16 10.0 | 22 18 23.1 | 0 20 36.2 | 2 18 52.8 | 4 21 6.0 | 6 19 22.7 | | | | | | | | | | | |
| 28 | 20 20 6.5 | 22 22 19.7 | 0 24 32.8 | 2 22 49.4 | 4 25 2.6 | 6 23 19.3 | | | | | | | | | | | |
| 29 | 20 24 3.1 | 22 26 16.2 | 0 28 29.3 | 2 26 45.9 | 4 28 59.1 | 6 27 15.8 | | | | | | | | | | | |
| 30 | 20 27 59.6 | 22 30 12.8 | 0 32 25.9 | 2 30 42.5 | 4 32 55.7 | 6 31 12.4 | | | | | | | | | | | |
| 31 | 20 31 56.2 | 22 34 9.3 | 0 36 22.4 | 2 34 39.0 | 4 36 52.2 | 6 35 9.0 | | | | | | | | | | | |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| m m s | m m s | m m s | m m s | m m s | m m s | m m s | m m s | m m s | m m s | m m s | m m s | m m s |
| 0 1 58.3 | 2 8.1 | 2 18.0 | 2 27.8 | 2 37.7 | 2 47.6 | 2 57.4 | 3 7.3 | 3 17.1 | 3 27.0 | 3 36.8 | 3 46.7 | |
| 5 1 59.1 | 2 9.0 | 2 18.8 | 2 28.7 | 2 38.5 | 2 48.4 | 2 58.2 | 3 8.1 | 3 18.0 | 3 27.8 | 3 37.7 | 3 47.5 | |
| 10 1 59.9 | 2 9.8 | 2 19.6 | 2 29.5 | 2 39.3 | 2 49.2 | 2 59.1 | 3 8.9 | 3 18.8 | 3 28.6 | 3 38.5 | 3 48.3 | |
| 15 2 0.7 | 2 10.6 | 2 20.5 | 2 30.3 | 2 40.2 | 2 50.0 | 2 59.9 | 3 9.7 | 3 19.6 | 3 29.4 | 3 39.3 | 3 49.2 | |
| | | | | | | | | | | | | |
| P. P. | | | | | | | | | | | | |
| 20 2 1.6 | 2 11.4 | 2 21.3 | 2 31.1 | 2 41.0 | 2 50.8 | 3 0.7 | 3 10.6 | 3 20.4 | 3 30.3 | 3 40.1 | 3 50.0 | m 1 0.2 |
| 25 2 2.4 | 2 12.2 | 2 22.1 | 2 32.0 | 2 41.8 | 2 51.7 | 3 1.5 | 3 11.4 | 3 21.2 | 3 31.1 | 3 40.9 | 3 50.8 | 2 0.3 |
| 30 2 3.2 | 2 13.1 | 2 22.9 | 2 32.8 | 2 42.6 | 2 52.5 | 3 2.3 | 3 12.2 | 3 22.1 | 3 31.9 | 3 41.8 | 3 51.6 | 3 0.5 |
| 35 2 4.0 | 2 13.9 | 2 23.7 | 2 33.6 | 2 43.5 | 2 53.3 | 3 3.2 | 3 13.0 | 3 22.9 | 3 32.7 | 3 42.6 | 3 52.4 | 4 0.7 |
| 40 2 4.8 | 2 14.7 | 2 24.6 | 2 34.4 | 2 44.3 | 2 54.1 | 3 4.0 | 3 13.8 | 3 23.7 | 3 33.6 | 3 43.4 | 3 53.3 | 5 0.8 |
| 45 2 5.7 | 2 15.5 | 2 25.4 | 2 35.2 | 2 45.1 | 2 55.0 | 3 4.8 | 3 14.7 | 3 24.5 | 3 34.4 | 3 44.2 | 3 54.1 | |
| 50 2 6.5 | 2 16.3 | 2 26.2 | 2 36.1 | 2 45.9 | 2 55.8 | 3 5.6 | 3 15.5 | 3 25.3 | 3 35.2 | 3 45.1 | 3 54.9 | |
| 55 2 7.3 | 2 17.2 | 2 27.0 | 2 36.9 | 2 46.7 | 2 56.6 | 3 6.5 | 3 16.3 | 3 26.2 | 3 36.0 | 3 45.9 | 3 55.7 | |
| 60 2 8.1 | 2 18.0 | 2 27.8 | 2 37.7 | 2 47.6 | 2 57.4 | 3 7.3 | 3 17.1 | 3 27.0 | 3 36.8 | 3 46.7 | 3 56.6 | |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

SUN, JANUARY 1942

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | |
|-------------|------------------|-------------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|------|
| Thursday 1 | | | | | | | | | | |
| h | m | s | ° | ' | ° | ' | m | s | ° | ' |
| 0 | -3 | 13.7 | -23 | 4.3 | 179 | 11.6 | -5 | 5.1 | -22 | 42.4 |
| 2 | 3 | 16.1 | 23 | 3.9 | 209 | 11.0 | 5 | 7.3 | 22 | 41.8 |
| 4 | 3 | 18.5 | 23 | 3.5 | 239 | 10.4 | 5 | 9.6 | 22 | 41.3 |
| 6 | 3 | 20.8 | 23 | 3.1 | 269 | 9.8 | 5 | 11.8 | 22 | 40.7 |
| 8 | 3 | 23.2 | 23 | 2.7 | 299 | 9.2 | 5 | 14.1 | 22 | 40.2 |
| 10 | 3 | 25.6 | 23 | 2.3 | 329 | 8.6 | 5 | 16.3 | 22 | 39.7 |
| 12 | 3 | 27.9 | 23 | 2.0 | 359 | 8.0 | 5 | 18.5 | 22 | 39.1 |
| 14 | 3 | 30.3 | 23 | 1.6 | 29 | 7.4 | 5 | 20.8 | 22 | 38.6 |
| 16 | 3 | 32.7 | 23 | 1.1 | 59 | 6.9 | 5 | 23.0 | 22 | 38.0 |
| 18 | 3 | 35.0 | 23 | 0.7 | 89 | 6.3 | 5 | 25.2 | 22 | 37.4 |
| 20 | 3 | 37.4 | 23 | 0.3 | 119 | 5.7 | 5 | 27.5 | 22 | 36.9 |
| 22 | 3 | 39.7 | 22 | 59.9 | 149 | 5.1 | 5 | 29.7 | 22 | 36.3 |
| H. D. | | 1.2 | | 0.2 | ... | ... | | 1.1 | 0.3 | ... |
| Friday 2 | | | | | | | | | | |
| Tuesday 6 | | | | | | | | | | |
| 0 | -3 | 42.1 | -22 | 59.5 | 179 | 4.5 | -5 | 31.9 | -22 | 35.7 |
| 2 | 3 | 44.4 | 22 | 59.1 | 209 | 3.9 | 5 | 34.1 | 22 | 35.2 |
| 4 | 3 | 46.8 | 22 | 58.7 | 239 | 3.3 | 5 | 36.4 | 22 | 34.6 |
| 6 | 3 | 49.1 | 22 | 58.2 | 269 | 2.7 | 5 | 38.6 | 22 | 34.0 |
| 8 | 3 | 51.4 | 22 | 57.8 | 299 | 2.2 | 5 | 40.8 | 22 | 33.4 |
| 10 | 3 | 53.8 | 22 | 57.4 | 329 | 1.6 | 5 | 43.0 | 22 | 32.9 |
| 12 | 3 | 56.1 | 22 | 56.9 | 359 | 1.0 | 5 | 45.2 | 22 | 32.3 |
| 14 | 3 | 58.5 | 22 | 56.5 | 29 | 0.4 | 5 | 47.4 | 22 | 31.7 |
| 16 | 4 | 0.8 | 22 | 56.0 | 58 | 59.8 | 5 | 49.6 | 22 | 31.1 |
| 18 | 4 | 3.1 | 22 | 55.6 | 88 | 59.2 | 5 | 51.8 | 22 | 30.5 |
| 20 | 4 | 5.4 | 22 | 55.1 | 118 | 58.7 | 5 | 54.0 | 22 | 29.9 |
| 22 | 4 | 7.8 | 22 | 54.7 | 148 | 58.1 | 5 | 56.2 | 22 | 29.3 |
| H. D. | | 1.2 | | 0.2 | ... | ... | | 1.1 | 0.3 | ... |
| Saturday 3 | | | | | | | | | | |
| Wednesday 7 | | | | | | | | | | |
| 0 | -4 | 10.1 | -22 | 54.2 | 178 | 57.5 | -5 | 58.4 | -22 | 28.7 |
| 2 | 4 | 12.4 | 22 | 53.8 | 208 | 56.9 | 6 | 0.6 | 22 | 28.1 |
| 4 | 4 | 14.7 | 22 | 53.3 | 238 | 56.3 | 6 | 2.7 | 22 | 27.5 |
| 6 | 4 | 17.0 | 22 | 52.8 | 268 | 55.8 | 6 | 4.9 | 22 | 26.8 |
| 8 | 4 | 19.4 | 22 | 52.4 | 298 | 55.2 | 6 | 7.1 | 22 | 26.2 |
| 10 | 4 | 21.7 | 22 | 51.9 | 328 | 54.6 | 6 | 9.3 | 22 | 25.6 |
| 12 | 4 | 24.0 | 22 | 51.4 | 358 | 54.0 | 6 | 11.4 | 22 | 25.0 |
| 14 | 4 | 26.3 | 22 | 51.0 | 28 | 53.5 | 6 | 13.6 | 22 | 24.4 |
| 16 | 4 | 28.6 | 22 | 50.5 | 58 | 52.9 | 6 | 15.8 | 22 | 23.7 |
| 18 | 4 | 30.9 | 22 | 50.0 | 88 | 52.3 | 6 | 17.9 | 22 | 23.1 |
| 20 | 4 | 33.2 | 22 | 49.5 | 118 | 51.7 | 6 | 20.1 | 22 | 22.5 |
| 22 | 4 | 35.5 | 22 | 49.0 | 148 | 51.1 | 6 | 22.2 | 22 | 21.8 |
| H. D. | | 1.2 | | 0.2 | ... | ... | | 1.1 | 0.3 | ... |
| Sunday 4 | | | | | | | | | | |
| Thursday 8 | | | | | | | | | | |
| 0 | -4 | 37.8 | -22 | 48.5 | 178 | 50.6 | -6 | 24.4 | -22 | 21.2 |
| 2 | 4 | 40.0 | 22 | 48.0 | 208 | 50.0 | 6 | 26.5 | 22 | 20.5 |
| 4 | 4 | 42.3 | 22 | 47.5 | 238 | 49.4 | 6 | 28.7 | 22 | 19.9 |
| 6 | 4 | 44.6 | 22 | 47.0 | 268 | 48.9 | 6 | 30.8 | 22 | 19.2 |
| 8 | 4 | 46.9 | 22 | 46.5 | 298 | 48.3 | 6 | 32.9 | 22 | 18.6 |
| 10 | 4 | 49.2 | 22 | 46.0 | 328 | 47.7 | 6 | 35.1 | 22 | 17.9 |
| 12 | 4 | 51.5 | 22 | 45.5 | 358 | 47.2 | 6 | 37.2 | 22 | 17.3 |
| 14 | 4 | 53.7 | 22 | 45.0 | 28 | 46.6 | 6 | 39.3 | 22 | 16.6 |
| 16 | 4 | 56.0 | 22 | 44.5 | 58 | 46.0 | 6 | 41.4 | 22 | 15.9 |
| 18 | 4 | 58.3 | 22 | 43.9 | 88 | 45.5 | 6 | 43.6 | 22 | 15.3 |
| 20 | 5 | 0.5 | 22 | 43.4 | 118 | 44.9 | 6 | 45.7 | 22 | 14.6 |
| 22 | -5 | 2.8 | -22 | 42.9 | 148 | 44.3 | -6 | 47.8 | -22 | 13.9 |
| H. D. | | 1.1 | | 0.3 | ... | ... | | 1.1 | 0.3 | ... |
| Monday 12 | | | | | | | | | | |
| Sunday 11 | | | | | | | | | | |
| 0 | -7 | 14.9 | -22 | 4.9 | 178 | 11.3 | -7 | 39.4 | -21 | 56.0 |
| 2 | 7 | 17.0 | 22 | 4.1 | 208 | 10.8 | 7 | 41.4 | 21 | 55.3 |
| 4 | 7 | 19.0 | 22 | 3.4 | 238 | 10.3 | 7 | 43.4 | 21 | 54.5 |
| 6 | 7 | 21.1 | 22 | 2.7 | 268 | 9.8 | 7 | 45.4 | 21 | 53.8 |
| 8 | 7 | 23.1 | 22 | 2.0 | 298 | 9.2 | 7 | 47.4 | 21 | 53.0 |
| 10 | 7 | 25.2 | 22 | 1.2 | 328 | 8.7 | 7 | 33.3 | 21 | 52.2 |
| 12 | 7 | 27.2 | 22 | 0.5 | 358 | 8.2 | 7 | 35.3 | 21 | 51.5 |
| 14 | 7 | 29.2 | 21 | 0.4 | 148 | 5.7 | 7 | 37.4 | 21 | 56.8 |
| H. D. | | 1.0 | | 0.4 | ... | ... | | 1.0 | 0.4 | ... |
| Sunday 12 | | | | | | | | | | |
| 0 | -8 | 3.3 | -21 | 46.8 | 177 | 59.2 | -8 | 3.3 | -21 | 46.0 |
| 2 | 8 | 5.3 | 21 | 46.0 | 207 | 58.7 | 8 | 5.3 | 21 | 45.2 |
| 4 | 8 | 7.2 | 21 | 44.4 | 237 | 58.2 | 8 | 9.2 | 21 | 44.4 |
| 6 | 8 | 9.2 | 21 | 44.4 | 267 | 57.7 | 8 | 11.2 | 21 | 43.6 |
| 8 | 8 | 13.1 | 21 | 42.8 | 297 | 57.2 | 8 | 13.1 | 21 | 42.8 |
| 10 | 8 | 15.1 | 21 | 42.0 | 327 | 56.8 | 8 | 15.1 | 21 | 42.0 |
| 12 | 8 | 17.0 | 21 | 41.2 | 357 | 56.3 | 8 | 17.0 | 21 | 41.2 |
| 14 | 8 | 19.0 | 21 | 40.4 | 147 | 59.7 | 8 | 19.0 | 21 | 40.4 |
| H. D. | | 1.0 | | 0.4 | ... | ... | | 1.0 | 0.4 | ... |

NOTE.—The Equation of Time is to be applied to the G. C. T. in accordance with the sign as given.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S. +12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|---|----|------|----------|----|------|-------|----|------|-------|----|------|-----|----|------|------|----|------|
| | January | | | February | | | March | | | April | | | May | | | June | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 6 | 41 | 0.8 | 8 | 43 | 14.0 | 10 | 33 | 37.5 | 12 | 35 | 50.6 | 14 | 34 | 7.2 | 16 | 36 | 20.4 |
| 2 | 6 | 44 | 57.4 | 8 | 47 | 10.6 | 10 | 37 | 34.1 | 12 | 39 | 47.2 | 14 | 38 | 3.8 | 16 | 40 | 17.0 |
| 3 | 6 | 48 | 53.9 | 8 | 51 | 7.1 | 10 | 41 | 30.6 | 12 | 43 | 43.7 | 14 | 42 | 0.3 | 16 | 44 | 13.5 |
| 4 | 6 | 52 | 50.5 | 8 | 55 | 3.7 | 10 | 45 | 27.2 | 12 | 47 | 40.3 | 14 | 45 | 56.9 | 16 | 48 | 10.1 |
| 5 | 6 | 56 | 47.0 | 8 | 59 | 0.2 | 10 | 49 | 23.7 | 12 | 51 | 36.8 | 14 | 49 | 53.4 | 16 | 52 | 6.6 |
| 6 | 7 | 0 | 43.6 | 9 | 2 | 56.8 | 10 | 53 | 20.3 | 12 | 55 | 33.4 | 14 | 53 | 50.0 | 16 | 56 | 3.2 |
| 7 | 7 | 4 | 40.1 | 9 | 6 | 53.4 | 10 | 57 | 16.8 | 12 | 59 | 30.0 | 14 | 57 | 46.5 | 16 | 59 | 59.8 |
| 8 | 7 | 8 | 36.7 | 9 | 10 | 49.9 | 11 | 1 | 13.4 | 13 | 3 | 26.5 | 15 | 1 | 43.1 | 17 | 3 | 56.3 |
| 9 | 7 | 12 | 33.2 | 9 | 14 | 46.5 | 11 | 5 | 10.0 | 13 | 7 | 23.1 | 15 | 5 | 39.6 | 17 | 7 | 52.9 |
| 10 | 7 | 16 | 29.8 | 9 | 18 | 43.0 | 11 | 9 | 6.5 | 13 | 11 | 19.6 | 15 | 9 | 36.2 | 17 | 11 | 49.4 |
| 11 | 7 | 20 | 26.4 | 9 | 22 | 39.6 | 11 | 13 | 3.1 | 13 | 15 | 16.2 | 15 | 13 | 32.8 | 17 | 15 | 46.0 |
| 12 | 7 | 24 | 22.9 | 9 | 26 | 36.1 | 11 | 16 | 59.6 | 13 | 19 | 12.7 | 15 | 17 | 29.3 | 17 | 19 | 42.6 |
| 13 | 7 | 28 | 19.5 | 9 | 30 | 32.7 | 11 | 20 | 56.2 | 13 | 23 | 9.3 | 15 | 21 | 25.9 | 17 | 23 | 39.1 |
| 14 | 7 | 32 | 16.0 | 9 | 34 | 29.2 | 11 | 24 | 52.7 | 13 | 27 | 5.8 | 15 | 25 | 22.4 | 17 | 27 | 35.7 |
| 15 | 7 | 36 | 12.6 | 9 | 38 | 25.8 | 11 | 28 | 49.3 | 13 | 31 | 2.4 | 15 | 29 | 19.0 | 17 | 31 | 32.2 |
| 16 | 7 | 40 | 9.2 | 9 | 42 | 22.3 | 11 | 32 | 45.8 | 13 | 34 | 58.9 | 15 | 33 | 15.6 | 17 | 35 | 28.8 |
| 17 | 7 | 44 | 5.7 | 9 | 46 | 18.9 | 11 | 36 | 42.4 | 13 | 38 | 55.5 | 15 | 37 | 12.1 | 17 | 39 | 25.3 |
| 18 | 7 | 48 | 2.3 | 9 | 50 | 15.4 | 11 | 40 | 38.9 | 13 | 42 | 52.0 | 15 | 41 | 8.7 | 17 | 43 | 21.9 |
| 19 | 7 | 51 | 58.8 | 9 | 54 | 12.0 | 11 | 44 | 35.5 | 13 | 46 | 48.6 | 15 | 45 | 5.2 | 17 | 47 | 18.4 |
| 20 | 7 | 55 | 55.4 | 9 | 58 | 8.6 | 11 | 48 | 32.0 | 13 | 50 | 45.2 | 15 | 49 | 1.8 | 17 | 51 | 15.0 |
| 21 | 7 | 59 | 51.9 | 10 | 2 | 5.1 | 11 | 52 | 28.6 | 13 | 54 | 41.7 | 15 | 52 | 58.3 | 17 | 55 | 11.6 |
| 22 | 8 | 3 | 48.5 | 10 | 6 | 1.7 | 11 | 56 | 25.1 | 13 | 58 | 38.2 | 15 | 56 | 54.9 | 17 | 59 | 8.1 |
| 23 | 8 | 7 | 45.0 | 10 | 9 | 58.2 | 12 | 0 | 21.7 | 14 | 2 | 34.8 | 16 | 0 | 51.4 | 18 | 3 | 4.7 |
| 24 | 8 | 11 | 41.6 | 10 | 13 | 54.8 | 12 | 4 | 18.2 | 14 | 6 | 31.3 | 16 | 4 | 48.0 | 18 | 7 | 1.2 |
| 25 | 8 | 15 | 38.2 | 10 | 17 | 51.3 | 12 | 8 | 14.8 | 14 | 10 | 27.9 | 16 | 8 | 44.5 | 18 | 10 | 57.8 |
| 26 | 8 | 19 | 34.7 | 10 | 21 | 47.9 | 12 | 12 | 11.3 | 14 | 14 | 24.4 | 16 | 12 | 41.1 | 18 | 14 | 54.4 |
| 27 | 8 | 23 | 31.3 | 10 | 25 | 44.4 | 12 | 16 | 7.9 | 14 | 18 | 21.0 | 16 | 16 | 37.6 | 18 | 18 | 50.9 |
| 28 | 8 | 27 | 27.8 | 10 | 29 | 41.0 | 12 | 20 | 4.4 | 14 | 22 | 17.6 | 16 | 20 | 34.2 | 18 | 22 | 47.5 |
| 29 | 8 | 31 | 24.4 | 10 | 33 | 37.5 | 12 | 24 | 1.0 | 14 | 26 | 14.1 | 16 | 24 | 30.8 | 18 | 26 | 44.0 |
| 30 | 8 | 35 | 20.9 | 10 | 37 | 34.1 | 12 | 27 | 57.5 | 14 | 30 | 10.7 | 16 | 28 | 27.3 | 18 | 30 | 40.6 |
| 31 | 8 | 39 | 17.5 | 10 | 41 | 30.6 | 12 | 31 | 54.1 | 14 | 34 | 7.2 | 16 | 32 | 23.9 | 18 | 34 | 37.1 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | | | | | | | | | | | | |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|---|-----|---|------|---|------|---|------|---|------|---|-------|
| | m | m | m | m | m | m | m | m | m | m | m | m | | | | | | | | | | | | |
| 0 | 0 | 0.0 | 0 | 9.9 | 0 | 19.7 | 0 | 29.6 | 0 | 39.4 | 0 | 49.3 | 1 | 9.0 | 1 | 18.9 | 1 | 28.7 | 1 | 38.6 | 1 | 48.4 | | |
| 5 | 0 | 0.8 | 0 | 10.7 | 0 | 20.5 | 0 | 30.4 | 0 | 40.2 | 0 | 50.1 | 1 | 0.0 | 1 | 9.8 | 1 | 19.7 | 1 | 29.5 | 1 | 39.4 | 1 | 49.2 |
| 10 | 0 | 1.6 | 0 | 11.5 | 0 | 21.4 | 0 | 31.2 | 0 | 41.1 | 0 | 50.9 | 1 | 0.8 | 1 | 10.6 | 1 | 20.5 | 1 | 30.4 | 1 | 40.2 | 1 | 50.1 |
| 15 | 0 | 2.5 | 0 | 12.3 | 0 | 22.2 | 0 | 32.0 | 0 | 41.9 | 0 | 51.7 | 1 | 1.6 | 1 | 11.5 | 1 | 21.3 | 1 | 31.2 | 1 | 41.0 | 1 | 50.9 |
| | | | | | | | | | | | | | | | | | | | | | | | | P. P. |
| 20 | 0 | 3.3 | 0 | 13.1 | 0 | 23.0 | 0 | 32.9 | 0 | 42.7 | 0 | 52.6 | 1 | 2.4 | 1 | 12.3 | 1 | 22.1 | 1 | 32.0 | 1 | 41.8 | 1 | 51.7 |
| 25 | 0 | 4.1 | 0 | 14.0 | 0 | 23.8 | 0 | 33.7 | 0 | 43.5 | 0 | 53.4 | 1 | 3.2 | 1 | 13.1 | 1 | 23.0 | 1 | 32.8 | 1 | 42.7 | 1 | 52.5 |
| 30 | 0 | 4.9 | 0 | 14.8 | 0 | 24.6 | 0 | 34.5 | 0 | 44.4 | 0 | 54.2 | 1 | 4.1 | 1 | 13.9 | 1 | 23.8 | 1 | 33.6 | 1 | 43.5 | 1 | 53.3 |
| 35 | 0 | 5.8 | 0 | 15.6 | 0 | 25.5 | 0 | 35.3 | 0 | 45.2 | 0 | 55.0 | 1 | 4.9 | 1 | 14.7 | 1 | 24.6 | 1 | 34.5 | 1 | 44.3 | 1 | 54.2 |
| 40 | 0 | 6.6 | 0 | 16.4 | 0 | 26.3 | 0 | 36.1 | 0 | 46.0 | 0 | 55.9 | 1 | 5.7 | 1 | 15.6 | 1 | 25.4 | 1 | 35.3 | 1 | 45.1 | 1 | 55.0 |
| 45 | 0 | 7.4 | 0 | 17.2 | 0 | 27.1 | 0 | 37.0 | 0 | 46.8 | 0 | 56.7 | 1 | 6.5 | 1 | 16.4 | 1 | 26.2 | 1 | 36.1 | 1 | 46.0 | 1 | 55.8 |
| 50 | 0 | 8.2 | 0 | 18.1 | 0 | 27.9 | 0 | 37.8 | 0 | 47.6 | 0 | 57.5 | 1 | 7.4 | 1 | 17.2 | 1 | 27.1 | 1 | 36.9 | 1 | 46.8 | 1 | 56.6 |
| 55 | 0 | 9.0 | 0 | 18.9 | 0 | 28.7 | 0 | 38.6 | 0 | 48.5 | 0 | 58.3 | 1 | 8.2 | 1 | 18.0 | 1 | 27.9 | 1 | 37.7 | 1 | 47.6 | 1 | 57.5 |
| 60 | 0 | 9.9 | 0 | 19.7 | 0 | 29.6 | 0 | 39.4 | 0 | 49.3 | 0 | 59.1 | 1 | 9.0 | 1 | 18.9 | 1 | 28.7 | 1 | 38.6 | 1 | 48.4 | 1 | 58.3 |

NOTE—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S. +12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|---|----|------|--------|----|------|-----------|----|------|---------|----|------|----------|----|------|----------|----|------|
| | July | | | August | | | September | | | October | | | November | | | December | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 18 | 34 | 37.1 | 20 | 36 | 50.4 | 22 | 39 | 3.5 | 0 | 37 | 20.1 | 2 | 39 | 33.2 | 4 | 37 | 49.9 |
| 2 | 18 | 38 | 33.7 | 20 | 40 | 46.9 | 22 | 43 | 0.1 | 0 | 41 | 16.6 | 2 | 43 | 29.8 | 4 | 41 | 46.4 |
| 3 | 18 | 42 | 30.2 | 20 | 44 | 43.5 | 22 | 46 | 56.6 | 0 | 45 | 13.2 | 2 | 47 | 26.3 | 4 | 45 | 43.0 |
| 4 | 18 | 46 | 26.8 | 20 | 48 | 40.0 | 22 | 50 | 53.2 | 0 | 49 | 9.7 | 2 | 51 | 22.9 | 4 | 49 | 39.5 |
| 5 | 18 | 50 | 23.3 | 20 | 52 | 36.6 | 22 | 54 | 49.7 | 0 | 53 | 6.3 | 2 | 55 | 19.4 | 4 | 53 | 36.1 |
| 6 | 18 | 54 | 19.9 | 20 | 56 | 33.1 | 22 | 58 | 46.3 | 0 | 57 | 2.8 | 2 | 59 | 16.0 | 4 | 57 | 32.7 |
| 7 | 18 | 58 | 16.5 | 21 | 0 | 29.7 | 23 | 2 | 42.8 | 1 | 0 | 59.4 | 3 | 3 | 12.5 | 5 | 1 | 29.2 |
| 8 | 19 | 2 | 13.0 | 21 | 4 | 26.3 | 23 | 6 | 39.4 | 1 | 4 | 55.9 | 3 | 7 | 9.1 | 5 | 5 | 25.8 |
| 9 | 19 | 6 | 9.6 | 21 | 8 | 22.8 | 23 | 10 | 35.9 | 1 | 8 | 52.5 | 3 | 11 | 5.6 | 5 | 9 | 22.3 |
| 10 | 19 | 10 | 6.2 | 21 | 12 | 19.4 | 23 | 14 | 32.5 | 1 | 12 | 49.0 | 3 | 15 | 2.2 | 5 | 13 | 18.9 |
| 11 | 19 | 14 | 2.7 | 21 | 16 | 15.9 | 23 | 18 | 29.0 | 1 | 16 | 45.6 | 3 | 18 | 58.8 | 5 | 17 | 15.4 |
| 12 | 19 | 17 | 59.3 | 21 | 20 | 12.5 | 23 | 22 | 25.6 | 1 | 20 | 42.2 | 3 | 22 | 55.3 | 5 | 21 | 12.0 |
| 13 | 19 | 21 | 55.8 | 21 | 24 | 9.0 | 23 | 26 | 22.1 | 1 | 24 | 38.7 | 3 | 26 | 51.9 | 5 | 25 | 8.5 |
| 14 | 19 | 25 | 52.4 | 21 | 28 | 5.6 | 23 | 30 | 18.7 | 1 | 28 | 35.3 | 3 | 30 | 48.4 | 5 | 29 | 5.1 |
| 15 | 19 | 29 | 48.9 | 21 | 32 | 2.1 | 23 | 34 | 15.3 | 1 | 32 | 31.8 | 3 | 34 | 45.0 | 5 | 33 | 1.7 |
| 16 | 19 | 33 | 45.5 | 21 | 35 | 58.7 | 23 | 38 | 11.8 | 1 | 36 | 28.4 | 3 | 38 | 41.5 | 5 | 36 | 58.2 |
| 17 | 19 | 37 | 42.0 | 21 | 39 | 55.2 | 23 | 42 | 8.4 | 1 | 40 | 24.9 | 3 | 42 | 38.1 | 5 | 40 | 54.8 |
| 18 | 19 | 41 | 38.6 | 21 | 43 | 51.8 | 23 | 46 | 4.9 | 1 | 44 | 21.5 | 3 | 46 | 34.6 | 5 | 44 | 51.3 |
| 19 | 19 | 45 | 35.1 | 21 | 47 | 48.3 | 23 | 50 | 1.5 | 1 | 48 | 18.0 | 3 | 50 | 31.2 | 5 | 48 | 47.9 |
| 20 | 19 | 49 | 31.7 | 21 | 51 | 44.9 | 23 | 53 | 58.0 | 1 | 52 | 14.6 | 3 | 54 | 27.7 | 5 | 52 | 44.5 |
| 21 | 19 | 53 | 28.3 | 21 | 55 | 41.5 | 23 | 57 | 54.6 | 1 | 56 | 11.1 | 3 | 58 | 24.3 | 5 | 56 | 41.0 |
| 22 | 19 | 57 | 24.8 | 21 | 59 | 38.0 | 0 | 1 | 51.1 | 2 | 0 | 7.7 | 4 | 2 | 20.9 | 6 | 0 | 37.6 |
| 23 | 20 | 1 | 21.4 | 22 | 3 | 34.6 | 0 | 5 | 47.7 | 2 | 4 | 4.2 | 4 | 6 | 17.4 | 6 | 4 | 34.1 |
| 24 | 20 | 5 | 17.9 | 22 | 7 | 31.1 | 0 | 9 | 44.2 | 2 | 8 | 0.8 | 4 | 10 | 14.0 | 6 | 8 | 30.7 |
| 25 | 20 | 9 | 14.5 | 22 | 11 | 27.7 | 0 | 13 | 40.8 | 2 | 11 | 57.3 | 4 | 14 | 10.5 | 6 | 12 | 27.2 |
| 26 | 20 | 13 | 11.0 | 22 | 15 | 24.2 | 0 | 17 | 37.3 | 2 | 15 | 53.9 | 4 | 18 | 7.1 | 6 | 16 | 23.8 |
| 27 | 20 | 17 | 7.6 | 22 | 19 | 20.8 | 0 | 21 | 33.9 | 2 | 19 | 50.5 | 4 | 22 | 3.7 | 6 | 20 | 20.4 |
| 28 | 20 | 21 | 4.1 | 22 | 23 | 17.3 | 0 | 25 | 30.4 | 2 | 23 | 47.0 | 4 | 26 | 0.2 | 6 | 24 | 16.9 |
| 29 | 20 | 25 | 0.7 | 22 | 27 | 13.9 | 0 | 29 | 27.0 | 2 | 27 | 43.6 | 4 | 29 | 56.8 | 6 | 28 | 13.5 |
| 30 | 20 | 28 | 57.2 | 22 | 31 | 10.4 | 0 | 33 | 23.5 | 2 | 31 | 40.1 | 4 | 33 | 53.3 | 6 | 32 | 10.0 |
| 31 | 20 | 32 | 53.8 | 22 | 35 | 7.0 | 0 | 37 | 20.1 | 2 | 35 | 36.7 | 4 | 37 | 49.9 | 6 | 36 | 6.6 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longi- tude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|------|---|------|---|------|---|------|---|------|---|------|
| 0 | m | m | s | m | m | s | m | m | s | m | m | s | | | | | | | | | | | | |
| 0 | 1 | 58.3 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 3 | 27.4 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 | | |
| 5 | 1 | 59.1 | 2 | 9.0 | 2 | 18.8 | 2 | 28.7 | 2 | 38.5 | 2 | 48.4 | 2 | 58.2 | 3 | 8.1 | 3 | 18.0 | 3 | 27.8 | 3 | 37.7 | 3 | 47.5 |
| 10 | 1 | 59.9 | 2 | 9.8 | 2 | 19.6 | 2 | 29.5 | 2 | 39.3 | 2 | 49.2 | 2 | 59.1 | 3 | 8.9 | 3 | 18.8 | 3 | 28.6 | 3 | 38.5 | 3 | 48.3 |
| 15 | 2 | 0.7 | 2 | 10.6 | 2 | 20.5 | 2 | 30.3 | 2 | 40.2 | 2 | 50.0 | 2 | 59.9 | 3 | 9.7 | 3 | 19.6 | 3 | 29.4 | 3 | 39.3 | 3 | 49.2 |
| 20 | 2 | 1.6 | 2 | 11.4 | 2 | 21.3 | 2 | 31.1 | 2 | 41.0 | 2 | 50.8 | 3 | 0.7 | 3 | 10.6 | 3 | 20.4 | 3 | 30.3 | 3 | 40.1 | 3 | 50.0 |
| 25 | 2 | 2.4 | 2 | 12.2 | 2 | 22.1 | 2 | 32.0 | 2 | 41.8 | 2 | 51.7 | 3 | 1.5 | 3 | 11.4 | 3 | 21.2 | 3 | 31.1 | 3 | 40.9 | 3 | 50.8 |
| 30 | 2 | 3.2 | 2 | 13.1 | 2 | 22.9 | 2 | 32.8 | 2 | 42.6 | 2 | 52.5 | 3 | 2.3 | 3 | 12.2 | 3 | 22.1 | 3 | 31.9 | 3 | 41.8 | 3 | 51.6 |
| 35 | 2 | 4.0 | 2 | 13.9 | 2 | 23.7 | 2 | 33.6 | 2 | 43.5 | 2 | 53.3 | 3 | 3.2 | 3 | 13.0 | 3 | 22.9 | 3 | 32.7 | 3 | 42.6 | 3 | 52.4 |
| 40 | 2 | 4.8 | 2 | 14.7 | 2 | 24.6 | 2 | 34.4 | 2 | 44.3 | 2 | 54.1 | 3 | 4.0 | 3 | 13.8 | 3 | 23.7 | 3 | 33.6 | 3 | 43.4 | 3 | 53.3 |
| 45 | 2 | 5.7 | 2 | 15.5 | 2 | 25.4 | 2 | 35.2 | 2 | 45.1 | 2 | 55.0 | 3 | 4.8 | 3 | 14.7 | 3 | 24.5 | 3 | 34.4 | 3 | 44.2 | 3 | 54.1 |
| 50 | 2 | 6.5 | 2 | 16.3 | 2 | 26.2 | 2 | 36.1 | 2 | 45.9 | 2 | 55.8 | 3 | 5.6 | 3 | 15.5 | 3 | 25.3 | 3 | 35.2 | 3 | 45.1 | 3 | 54.9 |
| 55 | 2 | 7.3 | 2 | 17.2 | 2 | 27.0 | 2 | 36.9 | 2 | 46.7 | 2 | 56.6 | 3 | 6.5 | 3 | 16.3 | 3 | 26.2 | 3 | 36.0 | 3 | 45.9 | 3 | 55.7 |
| 60 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | 3 | 7.3 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 | 3 | 56.6 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. |
|-------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|
| Wednesday 1 | | | | | | | | | |
| h | m s | ° ' | ° ' | m s | ° ' | ° ' | m s | ° ' | ° ' |
| 0 | -3 21.4 | -23 3.1 | 179 9.6 | -5 12.9 | -22 40.8 | 178 41.8 | -6 57.5 | -22 11.2 | 178 15.6 |
| 2 | 3 23.8 | 23 2.7 | 209 9.1 | 5 15.2 | 22 40.2 | 208 41.2 | 6 59.5 | 22 10.5 | 208 15.1 |
| 4 | 3 26.2 | 23 2.3 | 239 8.5 | 5 17.5 | 22 39.7 | 238 40.6 | 7 1.6 | 22 9.8 | 238 14.6 |
| 6 | 3 28.5 | 23 2.0 | 269 7.9 | 5 19.7 | 22 39.1 | 268 40.1 | 7 3.7 | 22 9.1 | 268 14.1 |
| 8 | 3 30.9 | 23 1.6 | 299 7.3 | 5 22.0 | 22 38.6 | 298 39.5 | 7 5.8 | 22 8.4 | 298 13.6 |
| 10 | 3 33.3 | 23 1.1 | 329 6.7 | 5 24.2 | 22 38.0 | 328 39.0 | 7 7.9 | 22 7.7 | 328 13.0 |
| 12 | 3 35.7 | 23 0.7 | 359 6.1 | 5 26.4 | 22 37.5 | 358 38.4 | 7 9.9 | 22 7.0 | 358 12.5 |
| 14 | 3 38.0 | 23 0.3 | 29 5.5 | 5 28.7 | 22 36.9 | 28 37.8 | 7 12.0 | 22 6.3 | 28 12.0 |
| 16 | 3 40.4 | 22 59.9 | 59 4.9 | 5 30.9 | 22 36.3 | 58 37.3 | 7 14.1 | 22 5.6 | 58 11.5 |
| 18 | 3 42.8 | 22 59.5 | 89 4.3 | 5 33.1 | 22 35.8 | 88 36.7 | 7 16.1 | 22 4.9 | 88 11.0 |
| 20 | 3 45.1 | 22 59.1 | 119 3.7 | 5 35.4 | 22 35.2 | 118 36.2 | 7 18.2 | 22 4.2 | 118 10.5 |
| 22 | 3 47.5 | 22 58.7 | 149 3.1 | 5 37.6 | 22 34.6 | 148 35.6 | 7 20.2 | 22 3.4 | 148 9.9 |
| H. D. | 1.2 | 0.2 | ... . . . | 1.1 | 0.3 | ... . . . | 1.0 | 0.4 | ... . . . |
| Thursday 2 | | | | | | | | | |
| | Monday 6 | | | Friday 10 | | | | | |
| 0 | -3 49.8 | -22 58.2 | 179 2.5 | -5 39.8 | -22 34.0 | 178 35.0 | -7 22.3 | -22 2.7 | 178 9.4 |
| 2 | 3 52.2 | 22 57.8 | 209 2.0 | 5 42.0 | 22 33.4 | 208 34.5 | 7 24.3 | 22 2.0 | 208 8.9 |
| 4 | 3 54.5 | 22 57.4 | 239 1.4 | 5 44.2 | 22 32.9 | 238 33.9 | 7 26.4 | 22 1.3 | 238 8.4 |
| 6 | 3 56.9 | 22 56.9 | 269 0.8 | 5 46.5 | 22 32.3 | 268 33.4 | 7 28.4 | 22 0.5 | 268 7.9 |
| 8 | 3 59.2 | 22 56.5 | 299 0.2 | 5 48.7 | 22 31.7 | 298 32.8 | 7 30.4 | 21 59.8 | 298 7.4 |
| 10 | 4 1.6 | 22 56.0 | 328 59.6 | 5 50.9 | 22 31.1 | 328 32.3 | 7 32.5 | 21 59.0 | 328 6.9 |
| 12 | 4 3.9 | 22 55.6 | 358 59.0 | 5 53.1 | 22 30.5 | 358 31.7 | 7 34.5 | 21 58.3 | 358 6.4 |
| 14 | 4 6.3 | 22 55.2 | 28 58.4 | 5 55.3 | 22 29.9 | 28 31.2 | 7 36.5 | 21 57.6 | 28 5.9 |
| H. D. | 1.2 | 0.2 | ... . . . | 1.1 | 0.3 | ... . . . | 1.0 | 0.4 | ... . . . |
| Friday 3 | | | | | | | | | |
| | Tuesday 7 | | | Saturday 11 | | | | | |
| 0 | -4 17.9 | 22 52.9 | 178 55.5 | -6 6.2 | -22 26.9 | 178 28.4 | -7 46.5 | -21 53.8 | 178 3.4 |
| 2 | 4 20.3 | 22 52.4 | 208 54.9 | 6 8.4 | 22 26.2 | 208 27.9 | 7 48.5 | 21 53.0 | 208 2.9 |
| 4 | 4 22.6 | 22 51.9 | 238 54.4 | 6 10.6 | 22 25.6 | 238 27.4 | 7 50.5 | 21 52.3 | 238 2.4 |
| 6 | 4 24.9 | 22 51.4 | 268 53.8 | 6 12.7 | 22 25.0 | 268 26.8 | 7 52.5 | 21 51.5 | 268 1.9 |
| 8 | 4 27.2 | 22 51.0 | 298 53.2 | 6 14.9 | 22 24.4 | 298 26.3 | 7 54.5 | 21 50.7 | 298 1.4 |
| 10 | 4 29.5 | 22 50.5 | 328 52.6 | 6 17.1 | 22 23.7 | 328 25.7 | 7 56.5 | 21 50.0 | 328 0.9 |
| 12 | 4 31.8 | 22 50.0 | 358 52.0 | 6 19.2 | 22 23.1 | 358 25.2 | 7 58.5 | 21 49.2 | 358 0.4 |
| 14 | 4 34.2 | 22 49.5 | 28 51.5 | 6 21.4 | 22 22.5 | 28 24.7 | 8 0.4 | 21 48.4 | 27 59.9 |
| 16 | 4 36.5 | 22 49.0 | 58 50.9 | 6 23.5 | 22 21.8 | 58 24.1 | 8 2.4 | 21 47.6 | 57 59.4 |
| 18 | 4 38.8 | 22 48.5 | 88 50.3 | 6 25.7 | 22 21.2 | 88 23.6 | 8 4.3 | 21 46.8 | 87 58.9 |
| 20 | 4 41.1 | 22 48.0 | 118 49.7 | 6 27.8 | 22 20.6 | 118 23.0 | 8 6.3 | 21 46.0 | 117 58.4 |
| 22 | 4 43.4 | 22 47.5 | 148 49.2 | 6 30.0 | 22 19.9 | 148 22.5 | 8 8.3 | 21 45.3 | 147 57.9 |
| H. D. | 1.2 | 0.2 | ... . . . | 1.1 | 0.3 | ... . . . | 1.0 | 0.4 | ... . . . |
| Saturday 4 | | | | | | | | | |
| | Wednesday 8 | | | Sunday 12 | | | | | |
| 0 | -4 45.6 | -22 47.0 | 178 48.6 | -6 32.1 | -22 19.2 | 178 22.0 | -8 10.2 | -21 44.5 | 177 57.4 |
| 2 | 4 47.9 | 22 46.5 | 208 48.0 | 6 34.2 | 22 18.6 | 208 21.4 | 8 12.2 | 21 43.7 | 207 57.0 |
| 4 | 4 50.2 | 22 46.0 | 238 47.4 | 6 36.4 | 22 17.9 | 238 20.9 | 8 14.1 | 21 42.9 | 237 56.5 |
| 6 | 4 52.5 | 22 45.5 | 268 46.9 | 6 38.5 | 22 17.3 | 268 20.4 | 8 16.0 | 21 42.1 | 267 56.0 |
| 8 | 4 54.8 | 22 45.0 | 298 46.3 | 6 40.6 | 22 16.6 | 298 19.9 | 8 18.0 | 21 41.2 | 297 55.5 |
| 10 | 4 57.1 | 22 44.5 | 328 45.7 | 6 42.7 | 22 15.9 | 328 19.3 | 8 19.9 | 21 40.4 | 327 55.0 |
| 12 | 4 59.4 | 22 44.0 | 358 45.2 | 6 44.8 | 22 15.3 | 358 18.8 | 8 21.8 | 21 39.6 | 357 54.5 |
| 14 | 5 1.6 | 22 43.4 | 28 44.6 | 6 47.0 | 22 14.6 | 28 18.3 | 8 23.7 | 21 38.8 | 27 54.1 |
| 16 | 5 3.9 | 22 42.9 | 58 44.0 | 6 49.1 | 22 13.9 | 58 17.7 | 8 25.6 | 21 38.0 | 57 53.6 |
| 18 | 5 6.2 | 22 42.4 | 88 43.5 | 6 51.2 | 22 13.2 | 88 17.2 | 8 27.6 | 21 37.2 | 87 53.1 |
| 20 | 5 8.4 | 22 41.8 | 118 42.9 | 6 53.3 | 22 12.6 | 118 16.7 | 8 29.6 | 21 36.3 | 117 52.6 |
| 22 | -5 10.7 | -22 41.3 | 148 42.3 | -6 55.4 | -22 11.9 | 148 16.2 | -8 31.4 | -21 35.5 | 147 52.2 |
| H. D. | 1.1 | 0.3 | ... . . . | 1.1 | 0.3 | ... . . . | 1.0 | 0.4 | ... . . . |

NOTE—The Equation of Time is to be applied to the G. C. T. in accordance with the sign as given.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | |
|--------------------|--|------------|------------|------------|------------|------------|-------|--|--|-------|--|--|-----|--|--|------|--|
| | January | | | February | | | March | | | April | | | May | | | June | |
| 1 | 6 38 1.9 | 8 40 15.1 | 10 34 35.2 | 12 36 48.3 | 14 35 4.9 | 16 37 18.1 | | | | | | | | | | | |
| 2 | 6 41 58.4 | 8 44 11.7 | 10 38 31.7 | 12 40 44.9 | 14 39 1.4 | 16 41 14.6 | | | | | | | | | | | |
| 3 | 6 45 55.0 | 8 48 8.2 | 10 42 28.3 | 12 44 41.4 | 14 42 58.0 | 16 45 11.2 | | | | | | | | | | | |
| 4 | 6 49 51.5 | 8 52 4.8 | 10 46 24.8 | 12 48 38.0 | 14 46 54.5 | 16 49 7.7 | | | | | | | | | | | |
| 5 | 6 53 48.1 | 8 56 1.4 | 10 50 21.4 | 12 52 34.5 | 14 50 51.1 | 16 53 4.3 | | | | | | | | | | | |
| 6 | 6 57 44.7 | 8 59 57.9 | 10 54 18.0 | 12 56 31.0 | 14 54 47.6 | 16 57 0.9 | | | | | | | | | | | |
| 7 | 7 1 41.2 | 9 3 54.5 | 10 58 14.5 | 13 0 27.6 | 14 58 44.2 | 17 0 57.4 | | | | | | | | | | | |
| 8 | 7 5 37.8 | 9 7 51.0 | 11 2 11.1 | 13 4 24.1 | 15 2 40.7 | 17 4 54.0 | | | | | | | | | | | |
| 9 | 7 9 34.3 | 9 11 47.6 | 11 6 7.6 | 13 8 20.7 | 15 6 37.3 | 17 8 50.5 | | | | | | | | | | | |
| 10 | 7 13 30.9 | 9 15 44.1 | 11 10 4.1 | 13 12 17.2 | 15 10 33.9 | 17 12 47.1 | | | | | | | | | | | |
| 11 | 7 17 27.5 | 9 19 40.7 | 11 14 0.7 | 13 16 13.8 | 15 14 30.4 | 17 16 43.7 | | | | | | | | | | | |
| 12 | 7 21 24.0 | 9 23 37.2 | 11 17 57.2 | 13 20 10.4 | 15 18 27.0 | 17 20 40.2 | | | | | | | | | | | |
| 13 | 7 25 20.6 | 9 27 33.8 | 11 21 53.8 | 13 24 6.9 | 15 22 23.5 | 17 24 36.8 | | | | | | | | | | | |
| 14 | 7 29 17.1 | 9 31 30.3 | 11 25 50.3 | 13 28 3.5 | 15 26 20.1 | 17 28 33.3 | | | | | | | | | | | |
| 15 | 7 33 13.7 | 9 35 26.9 | 11 29 46.9 | 13 32 0.0 | 15 30 16.6 | 17 32 29.9 | | | | | | | | | | | |
| 16 | 7 37 10.2 | 9 39 23.4 | 11 33 43.5 | 13 35 56.6 | 15 34 13.2 | 17 36 26.4 | | | | | | | | | | | |
| 17 | 7 41 6.8 | 9 43 20.0 | 11 37 40.0 | 13 39 53.1 | 15 38 9.7 | 17 40 23.0 | | | | | | | | | | | |
| 18 | 7 45 3.3 | 9 47 16.5 | 11 41 36.6 | 13 43 49.7 | 15 42 6.3 | 17 44 19.5 | | | | | | | | | | | |
| 19 | 7 48 59.9 | 9 51 13.1 | 11 45 33.1 | 13 47 46.2 | 15 46 2.9 | 17 48 16.1 | | | | | | | | | | | |
| 20 | 7 52 56.4 | 9 55 9.7 | 11 49 29.7 | 13 51 42.8 | 15 49 59.4 | 17 52 12.7 | | | | | | | | | | | |
| 21 | 7 56 53.0 | 9 59 6.2 | 11 53 26.2 | 13 55 39.3 | 15 53 56.0 | 17 56 9.2 | | | | | | | | | | | |
| 22 | 8 0 49.6 | 10 3 2.8 | 11 57 22.8 | 13 59 35.9 | 15 57 52.5 | 18 0 5.8 | | | | | | | | | | | |
| 23 | 8 4 46.1 | 10 6 59.3 | 12 1 19.3 | 14 3 32.4 | 16 1 49.1 | 18 4 2.3 | | | | | | | | | | | |
| 24 | 8 8 42.7 | 10 10 55.9 | 12 5 15.9 | 14 7 29.0 | 16 5 45.6 | 18 7 58.9 | | | | | | | | | | | |
| 25 | 8 12 39.2 | 10 14 52.4 | 12 9 12.4 | 14 11 25.5 | 16 9 42.2 | 18 11 55.5 | | | | | | | | | | | |
| 26 | 8 16 35.8 | 10 18 49.0 | 12 13 9.0 | 14 15 22.1 | 16 13 38.8 | 18 15 52.0 | | | | | | | | | | | |
| 27 | 8 20 32.4 | 10 22 45.5 | 12 17 5.5 | 14 19 18.7 | 16 17 35.3 | 18 19 48.6 | | | | | | | | | | | |
| 28 | 8 24 28.9 | 10 26 42.1 | 12 21 2.1 | 14 23 15.2 | 16 21 31.9 | 18 23 45.1 | | | | | | | | | | | |
| 29 | 8 28 25.5 | 10 30 38.6 | 12 24 58.6 | 14 27 11.8 | 16 25 28.4 | 18 27 41.7 | | | | | | | | | | | |
| 30 | 8 32 22.0 | 10 34 35.2 | 12 28 55.2 | 14 31 8.3 | 16 29 25.0 | 18 31 38.2 | | | | | | | | | | | |
| 31 | 8 36 18.6 | 10 38 31.7 | 12 32 51.7 | 14 35 4.9 | 16 33 21.5 | 18 35 34.8 | | | | | | | | | | | |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | P. P. | m | s |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-------|---|---|
| 0 | 0 0.0 | 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 | | | |
| 5 | 0 0.8 | 0 10.7 | 0 20.5 | 0 30.4 | 0 40.2 | 0 50.1 | 1 0.0 | 1 9.8 | 1 19.7 | 1 29.5 | 1 39.4 | 1 49.2 | | | |
| 10 | 0 1.6 | 0 11.5 | 0 21.4 | 0 31.2 | 0 41.1 | 0 50.9 | 1 0.8 | 1 10.6 | 1 20.5 | 1 30.4 | 1 40.2 | 1 50.1 | | | |
| 15 | 0 2.5 | 0 12.3 | 0 22.2 | 0 32.0 | 0 41.9 | 0 51.7 | 1 1.6 | 1 11.5 | 1 21.3 | 1 31.2 | 1 41.0 | 1 50.9 | | | |
| 20 | 0 3.3 | 0 13.1 | 0 23.0 | 0 32.9 | 0 42.7 | 0 52.6 | 1 2.4 | 1 12.3 | 1 22.1 | 1 32.0 | 1 41.8 | 1 51.7 | | | |
| 25 | 0 4.1 | 0 14.0 | 0 23.8 | 0 33.7 | 0 43.5 | 0 53.4 | 1 3.2 | 1 13.1 | 1 23.0 | 1 32.8 | 1 42.7 | 1 52.5 | | | |
| 30 | 0 4.9 | 0 14.8 | 0 24.6 | 0 34.5 | 0 44.4 | 0 54.2 | 1 4.1 | 1 13.9 | 1 23.8 | 1 33.6 | 1 43.5 | 1 53.3 | | | |
| 35 | 0 5.8 | 0 15.6 | 0 25.5 | 0 35.3 | 0 45.2 | 0 55.0 | 1 4.9 | 1 14.7 | 1 24.6 | 1 34.5 | 1 44.3 | 1 54.2 | | | |
| 40 | 0 6.6 | 0 16.4 | 0 26.3 | 0 36.1 | 0 46.0 | 0 55.9 | 1 5.7 | 1 15.6 | 1 25.4 | 1 35.3 | 1 45.1 | 1 55.0 | | | |
| 45 | 0 7.4 | 0 17.2 | 0 27.1 | 0 37.0 | 0 46.8 | 0 56.7 | 1 6.5 | 1 16.4 | 1 26.2 | 1 36.1 | 1 46.0 | 1 55.8 | | | |
| 50 | 0 8.2 | 0 18.1 | 0 27.9 | 0 37.8 | 0 47.6 | 0 57.5 | 1 7.4 | 1 17.2 | 1 27.1 | 1 36.9 | 1 46.8 | 1 56.6 | | | |
| 55 | 0 9.0 | 0 18.9 | 0 28.7 | 0 38.6 | 0 48.5 | 0 58.3 | 1 8.2 | 1 18.0 | 1 27.9 | 1 37.7 | 1 47.6 | 1 57.5 | | | |
| 60 | 0 9.9 | 0 19.7 | 0 29.6 | 0 39.4 | 0 49.3 | 0 59.1 | 1 9.0 | 1 18.9 | 1 28.7 | 1 38.6 | 1 48.4 | 1 58.3 | | | |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|--------|----|------|-----------|----|------|---------|----|------|----------|----|------|----------|----|------|
| | July | | | August | | | September | | | October | | | November | | | December | | |
| | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 18 | 35 | 34.8 | 20 | 37 | 48.0 | 22 | 40 | 1.2 | 0 | 38 | 17.7 | 2 | 40 | 30.9 | 4 | 38 | 47.5 |
| 2 | 18 | 39 | 31.3 | 20 | 41 | 44.6 | 22 | 43 | 57.7 | 0 | 42 | 14.3 | 2 | 44 | 27.4 | 4 | 42 | 44.1 |
| 3 | 18 | 43 | 27.9 | 20 | 45 | 41.1 | 22 | 47 | 54.3 | 0 | 46 | 10.8 | 2 | 48 | 24.0 | 4 | 46 | 40.7 |
| 4 | 18 | 47 | 24.5 | 20 | 49 | 37.7 | 22 | 51 | 50.8 | 0 | 50 | 7.4 | 2 | 52 | 20.5 | 4 | 50 | 37.2 |
| 5 | 18 | 51 | 21.0 | 20 | 53 | 34.2 | 22 | 55 | 47.4 | 0 | 54 | 3.9 | 2 | 56 | 17.1 | 4 | 54 | 33.8 |
| 6 | 18 | 55 | 17.6 | 20 | 57 | 30.8 | 22 | 59 | 43.9 | 0 | 58 | 0.5 | 3 | 0 | 13.7 | 4 | 58 | 30.3 |
| 7 | 18 | 59 | 14.1 | 21 | 1 | 27.3 | 23 | 3 | 40.5 | 1 | 1 | 57.1 | 3 | 4 | 10.2 | 5 | 2 | 26.9 |
| 8 | 19 | 3 | 10.7 | 21 | 5 | 23.9 | 23 | 7 | 37.0 | 1 | 5 | 53.6 | 3 | 8 | 6.8 | 5 | 6 | 23.4 |
| 9 | 19 | 7 | 7.2 | 21 | 9 | 20.4 | 23 | 11 | 33.6 | 1 | 9 | 50.2 | 3 | 12 | 3.3 | 5 | 10 | 20.0 |
| 10 | 19 | 11 | 3.8 | 21 | 13 | 17.0 | 23 | 15 | 30.2 | 1 | 13 | 46.7 | 3 | 15 | 59.9 | 5 | 14 | 16.5 |
| 11 | 19 | 15 | 0.4 | 21 | 17 | 13.6 | 23 | 19 | 26.7 | 1 | 17 | 43.3 | 3 | 19 | 56.4 | 5 | 18 | 13.1 |
| 12 | 19 | 18 | 56.9 | 21 | 21 | 10.1 | 23 | 23 | 23.3 | 1 | 21 | 39.8 | 3 | 23 | 53.0 | 5 | 22 | 9.6 |
| 13 | 19 | 22 | 53.5 | 21 | 25 | 6.7 | 23 | 27 | 19.8 | 1 | 25 | 36.4 | 3 | 27 | 49.5 | 5 | 26 | 6.2 |
| 14 | 19 | 26 | 50.0 | 21 | 29 | 3.2 | 23 | 31 | 16.4 | 1 | 29 | 32.9 | 3 | 31 | 46.1 | 5 | 30 | 2.8 |
| 15 | 19 | 30 | 46.6 | 21 | 32 | 59.8 | 23 | 35 | 12.9 | 1 | 33 | 29.5 | 3 | 35 | 42.6 | 5 | 33 | 59.3 |
| 16 | 19 | 34 | 43.1 | 21 | 36 | 56.3 | 23 | 39 | 9.5 | 1 | 37 | 26.0 | 3 | 39 | 39.2 | 5 | 37 | 55.9 |
| 17 | 19 | 38 | 39.7 | 21 | 40 | 52.9 | 23 | 43 | 6.0 | 1 | 41 | 22.6 | 3 | 43 | 35.7 | 5 | 41 | 52.4 |
| 18 | 19 | 42 | 36.2 | 21 | 44 | 49.5 | 23 | 47 | 2.6 | 1 | 45 | 19.1 | 3 | 47 | 32.3 | 5 | 45 | 49.0 |
| 19 | 19 | 46 | 32.8 | 21 | 48 | 46.0 | 23 | 50 | 59.1 | 1 | 49 | 15.7 | 3 | 51 | 28.9 | 5 | 49 | 45.6 |
| 20 | 19 | 50 | 29.4 | 21 | 52 | 42.6 | 23 | 54 | 55.7 | 1 | 53 | 12.2 | 3 | 55 | 25.4 | 5 | 53 | 42.1 |
| 21 | 19 | 54 | 25.9 | 21 | 56 | 39.1 | 23 | 58 | 52.2 | 1 | 57 | 8.8 | 3 | 59 | 22.0 | 5 | 57 | 38.7 |
| 22 | 19 | 58 | 22.5 | 22 | 0 | 35.6 | 0 | 2 | 48.8 | 2 | 1 | 5.3 | 4 | 3 | 18.5 | 6 | 1 | 35.2 |
| 23 | 20 | 2 | 19.0 | 22 | 4 | 32.2 | 0 | 6 | 45.3 | 2 | 5 | 1.9 | 4 | 7 | 15.1 | 6 | 5 | 31.8 |
| 24 | 20 | 6 | 15.6 | 22 | 8 | 28.7 | 0 | 10 | 41.9 | 2 | 8 | 58.4 | 4 | 11 | 11.6 | 6 | 9 | 28.3 |
| 25 | 20 | 10 | 12.1 | 22 | 12 | 25.3 | 0 | 14 | 38.4 | 2 | 12 | 55.0 | 4 | 15 | 8.2 | 6 | 13 | 24.9 |
| 26 | 20 | 14 | 8.7 | 22 | 16 | 21.9 | 0 | 18 | 35.0 | 2 | 16 | 51.6 | 4 | 19 | 4.7 | 6 | 17 | 21.4 |
| 27 | 20 | 18 | 5.2 | 22 | 20 | 18.4 | 0 | 22 | 31.5 | 2 | 20 | 48.1 | 4 | 23 | 1.3 | 6 | 21 | 18.0 |
| 28 | 20 | 22 | 1.8 | 22 | 24 | 15.0 | 0 | 26 | 28.1 | 2 | 24 | 44.7 | 4 | 26 | 57.8 | 6 | 25 | 14.6 |
| 29 | 20 | 25 | 58.3 | 22 | 28 | 11.5 | 0 | 30 | 24.6 | 2 | 28 | 41.2 | 4 | 30 | 54.4 | 6 | 29 | 11.1 |
| 30 | 20 | 29 | 54.9 | 22 | 32 | 8.1 | 0 | 34 | 21.2 | 2 | 32 | 37.8 | 4 | 34 | 51.0 | 6 | 33 | 7.7 |
| 31 | 20 | 33 | 51.5 | 22 | 36 | 4.6 | 0 | 38 | 17.7 | 2 | 36 | 34.3 | 4 | 38 | 47.5 | 6 | 37 | 4.3 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|----|----|
| | m | m | s | m | m | s | m | m | s | m | m | s | m | m | s |
| 0° | 1 | 58 | .3 | 2 | 8 | .1 | 2 | 18 | .0 | 2 | 27 | .8 | 2 | 47 | .6 |
| 5 | 1 | 59 | .1 | 2 | 9 | .0 | 2 | 18 | .8 | 2 | 28 | .7 | 2 | 48 | .4 |
| 10 | 1 | 59 | .9 | 2 | 9 | .8 | 2 | 19 | .6 | 2 | 29 | .5 | 2 | 49 | .2 |
| 15 | 2 | 0 | .7 | 2 | 10 | .6 | 2 | 20 | .5 | 2 | 30 | .3 | 2 | 50 | .0 |
| 20 | 2 | 1 | .6 | 2 | 11 | .4 | 2 | 21 | .3 | 2 | 31 | .1 | 3 | 10 | .6 |
| 25 | 2 | 2 | .4 | 2 | 12 | .2 | 2 | 22 | .1 | 2 | 32 | .0 | 3 | 11 | .4 |
| 30 | 2 | 3 | .2 | 2 | 13 | .1 | 2 | 22 | .9 | 2 | 32 | .8 | 3 | 12 | .2 |
| 35 | 2 | 4 | .0 | 2 | 13 | .9 | 2 | 23 | .7 | 2 | 33 | .6 | 3 | 13 | .0 |
| 40 | 2 | 4 | .8 | 2 | 14 | .7 | 2 | 24 | .6 | 2 | 34 | .4 | 3 | 13 | .8 |
| 45 | 2 | 5 | .7 | 2 | 15 | .5 | 2 | 25 | .4 | 2 | 35 | .2 | 3 | 14 | .7 |
| 50 | 2 | 6 | .5 | 2 | 16 | .3 | 2 | 26 | .2 | 2 | 36 | .1 | 3 | 14 | .5 |
| 55 | 2 | 7 | .3 | 2 | 17 | .2 | 2 | 27 | .0 | 2 | 36 | .9 | 3 | 15 | .3 |
| 60 | 2 | 8 | .1 | 2 | 18 | .0 | 2 | 27 | .8 | 2 | 37 | .7 | 3 | 17 | 1 |

P. P.

| | |
|---|-----|
| m | s |
| 1 | 0.2 |
| 2 | 0.3 |
| 3 | 0.5 |
| 4 | 0.7 |
| 5 | 0.8 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. |
|--------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|---------------------|----------------------|-------------------|
| Monday 1 | | | | | | | | | |
| 0 | -2 57.8 | -23 6.6 | 179 15.5 | -4 50.3 | -22 45.6 | 178 47.4 | -6 36.7 | -22 17.4 | 178 20.8 |
| 2 | 3 0.2 | 23 6.2 | 209 14.9 | 4 52.6 | 22 45.1 | 208 46.8 | 6 38.8 | 22 16.7 | 208 20.3 |
| 4 | 3 2.6 | 23 5.9 | 239 14.3 | 4 54.9 | 22 44.6 | 238 46.3 | 6 41.0 | 22 16.1 | 238 19.8 |
| 6 | 3 5.0 | 23 5.5 | 269 13.8 | 4 57.2 | 22 44.1 | 268 45.7 | 6 43.0 | 22 15.4 | 268 19.2 |
| 8 | 3 7.4 | 23 5.1 | 299 13.2 | 4 59.4 | 22 43.5 | 298 45.1 | 6 45.2 | 22 14.7 | 298 18.7 |
| 10 | 3 9.8 | 23 4.8 | 329 12.6 | 5 1.7 | 22 43.0 | 328 44.6 | 6 47.3 | 22 14.0 | 328 18.2 |
| 12 | 3 12.2 | 23 4.4 | 359 12.0 | 5 4.0 | 22 42.5 | 358 44.0 | 6 49.4 | 22 13.4 | 358 17.6 |
| 14 | 3 14.5 | 23 4.0 | 29 11.4 | 5 6.3 | 22 41.9 | 28 43.4 | 6 51.6 | 22 12.7 | 28 17.1 |
| 16 | 3 16.9 | 23 3.6 | 59 10.8 | 5 8.5 | 22 41.4 | 58 42.9 | 6 53.7 | 22 12.0 | 58 16.6 |
| 18 | 3 19.3 | 23 3.2 | 89 10.2 | 5 10.8 | 22 40.9 | 88 42.3 | 6 55.8 | 22 11.3 | 88 16.1 |
| 20 | 3 21.7 | 23 2.8 | 119 9.6 | 5 13.1 | 22 40.3 | 118 41.7 | 6 57.9 | 22 10.6 | 118 15.5 |
| 22 | 3 24.0 | 23 2.4 | 149 9.0 | 5 15.3 | 22 39.8 | 148 41.2 | 7 0.0 | 22 9.9 | 148 15.0 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.3 | ... |
| Tuesday 2 | | | | | | | | | |
| 0 | -3 26.4 | -23 2.0 | 179 8.4 | -5 17.6 | -22 39.2 | 178 40.6 | -7 2.1 | -22 9.2 | 178 14.5 |
| 2 | 3 28.8 | 23 1.6 | 209 7.8 | 5 19.8 | 22 38.7 | 208 40.0 | 7 4.2 | 22 8.5 | 208 14.0 |
| 4 | 3 31.1 | 23 1.2 | 239 7.2 | 5 22.1 | 22 38.1 | 238 39.5 | 7 6.3 | 22 7.8 | 238 13.4 |
| 6 | 3 33.5 | 23 0.8 | 269 6.6 | 5 24.3 | 22 37.6 | 268 38.9 | 7 8.3 | 22 7.1 | 268 12.9 |
| 8 | 3 35.9 | 23 0.4 | 299 6.0 | 5 26.5 | 22 37.0 | 298 38.4 | 7 10.4 | 22 6.4 | 298 12.4 |
| 10 | 3 38.2 | 23 0.0 | 329 5.4 | 5 28.8 | 22 36.4 | 328 37.8 | 7 12.5 | 22 5.7 | 328 11.9 |
| 12 | 3 40.6 | 22 59.6 | 359 4.8 | 5 31.0 | 22 35.9 | 358 37.2 | 7 14.6 | 22 5.0 | 358 11.4 |
| 14 | 3 43.0 | 22 59.2 | 29 4.3 | 5 33.3 | 22 35.3 | 28 36.7 | 7 16.7 | 22 4.3 | 28 10.9 |
| 16 | 3 45.3 | 22 58.7 | 59 3.7 | 5 35.5 | 22 34.7 | 58 36.1 | 7 18.7 | 22 3.5 | 58 10.3 |
| 18 | 3 47.7 | 22 58.3 | 89 3.1 | 5 37.7 | 22 34.1 | 88 35.6 | 7 20.8 | 22 2.8 | 88 9.8 |
| 20 | 3 50.0 | 22 57.9 | 119 2.5 | 5 39.9 | 22 33.6 | 118 35.0 | 7 22.8 | 22 2.1 | 118 9.3 |
| 22 | 3 52.4 | 22 57.5 | 149 1.9 | 5 42.2 | 22 33.0 | 148 34.5 | 7 24.9 | 22 1.4 | 148 8.8 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Wednesday 3 | | | | | | | | | |
| 0 | -3 54.7 | -22 57.0 | 179 1.3 | -5 44.4 | -22 32.4 | 178 33.9 | -7 27.0 | -22 0.6 | 178 8.3 |
| 2 | 3 57.1 | 22 56.6 | 209 0.7 | 5 46.6 | 22 31.8 | 208 33.3 | 7 29.0 | 21 59.9 | 208 7.8 |
| 4 | 3 59.4 | 22 56.1 | 239 0.2 | 5 48.8 | 22 31.2 | 238 32.8 | 7 31.0 | 21 59.2 | 238 7.2 |
| 6 | 4 1.7 | 22 55.7 | 268 59.6 | 5 51.0 | 22 30.6 | 268 32.2 | 7 33.1 | 21 58.4 | 268 6.7 |
| 8 | 4 4.0 | 22 55.2 | 298 59.0 | 5 53.2 | 22 30.0 | 298 31.7 | 7 35.1 | 21 57.7 | 298 6.2 |
| 10 | 4 6.4 | 22 54.8 | 328 58.4 | 5 55.4 | 22 29.4 | 328 31.1 | 7 37.1 | 21 56.9 | 328 5.7 |
| 12 | 4 8.7 | 22 54.3 | 358 57.8 | 5 57.6 | 22 28.8 | 358 30.6 | 7 39.2 | 21 56.2 | 358 5.2 |
| 14 | 4 11.1 | 22 53.9 | 28 57.2 | 5 59.8 | 22 28.2 | 28 30.0 | 7 41.2 | 21 55.4 | 28 4.7 |
| 16 | 4 13.4 | 22 53.4 | 58 56.7 | 6 2.0 | 22 27.6 | 58 29.5 | 7 43.2 | 21 54.7 | 58 4.2 |
| 18 | 4 15.7 | 22 53.0 | 88 56.1 | 6 4.2 | 22 27.0 | 88 28.9 | 7 45.2 | 21 53.9 | 88 3.7 |
| 20 | 4 18.1 | 22 52.5 | 118 55.5 | 6 6.4 | 22 26.3 | 118 28.4 | 7 47.2 | 21 53.1 | 118 3.2 |
| 22 | 4 20.4 | 22 52.0 | 148 54.9 | 6 8.6 | 22 25.7 | 148 27.8 | 7 49.2 | 21 52.4 | 148 2.7 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Thursday 4 | | | | | | | | | |
| 0 | -4 22.7 | -22 51.5 | 178 54.3 | -6 10.8 | -22 25.1 | 178 27.3 | -7 51.2 | -21 51.6 | 178 2.2 |
| 2 | 4 25.0 | 22 51.1 | 208 53.8 | 6 13.0 | 22 24.5 | 208 26.8 | 7 53.2 | 21 50.8 | 208 1.7 |
| 4 | 4 27.3 | 22 50.6 | 238 53.2 | 6 15.1 | 22 23.8 | 238 26.2 | 7 55.2 | 21 50.1 | 238 1.2 |
| 6 | 4 29.6 | 22 50.1 | 268 52.6 | 6 17.3 | 22 23.2 | 268 25.7 | 7 57.2 | 21 49.3 | 268 0.7 |
| 8 | 4 31.9 | 22 49.6 | 298 52.0 | 6 19.5 | 22 22.6 | 298 25.1 | 7 59.2 | 21 48.5 | 298 0.2 |
| 10 | 4 34.2 | 22 49.1 | 328 51.4 | 6 21.6 | 22 21.9 | 328 24.6 | 8 1.2 | 21 47.7 | 327 59.7 |
| 12 | 4 36.5 | 22 48.6 | 358 50.9 | 6 23.8 | 22 21.3 | 358 24.1 | 8 3.2 | 21 46.9 | 357 59.2 |
| 14 | 4 38.8 | 22 48.1 | 28 50.3 | 6 25.9 | 22 20.6 | 28 23.5 | 8 5.1 | 21 46.1 | 27 58.7 |
| 16 | 4 41.1 | 22 47.6 | 58 49.7 | 6 28.1 | 22 20.0 | 58 23.0 | 8 7.1 | 21 45.3 | 57 58.2 |
| 18 | 4 43.4 | 22 47.1 | 88 49.1 | 6 30.2 | 22 19.3 | 88 22.4 | 8 9.1 | 21 44.5 | 87 57.7 |
| 20 | 4 45.7 | 22 46.6 | 118 48.6 | 6 32.4 | 22 18.7 | 118 21.9 | 8 11.0 | 21 43.8 | 117 57.2 |
| 22 | -4 48.0 | -22 46.1 | 148 48.0 | -6 34.5 | -22 18.0 | 148 21.4 | -8 13.0 | -21 43.0 | 147 56.7 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Friday 5 | | | | | | | | | |
| Saturday 6 | | | | | | | | | |
| Sunday 7 | | | | | | | | | |
| Monday 8 | | | | | | | | | |
| Tuesday 9 | | | | | | | | | |
| Wednesday 10 | | | | | | | | | |
| Thursday 11 | | | | | | | | | |
| Friday 12 | | | | | | | | | |

NOTE.—The Equation of Time is to be applied to the G. C. T. in accordance with the sign as given

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|----------|----|------|-------|----|------|-------|----|------|-----|----|------|------|----|------|
| | January | | | February | | | March | | | April | | | May | | | June | | |
| | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 6 | 38 | 59.4 | 8 | 41 | 12.7 | 10 | 31 | 36.2 | 12 | 33 | 49.3 | 14 | 32 | 5.9 | 16 | 34 | 19.1 |
| 2 | 6 | 42 | 56.0 | 8 | 45 | 9.3 | 10 | 35 | 32.8 | 12 | 37 | 45.9 | 14 | 36 | 2.5 | 16 | 38 | 15.7 |
| 3 | 6 | 46 | 52.6 | 8 | 49 | 5.8 | 10 | 39 | 29.3 | 12 | 41 | 42.4 | 14 | 39 | 59.0 | 16 | 42 | 12.3 |
| 4 | 6 | 50 | 49.1 | 8 | 53 | 2.4 | 10 | 43 | 25.9 | 12 | 45 | 39.0 | 14 | 43 | 55.6 | 16 | 46 | 8.8 |
| 5 | 6 | 54 | 45.7 | 8 | 56 | 58.9 | 10 | 47 | 22.4 | 12 | 49 | 35.5 | 14 | 47 | 52.1 | 16 | 50 | 5.4 |
| 6 | 6 | 58 | 42.3 | 9 | 0 | 55.5 | 10 | 51 | 19.0 | 12 | 53 | 32.1 | 14 | 51 | 48.7 | 16 | 54 | 1.9 |
| 7 | 7 | 2 | 38.8 | 9 | 4 | 52.1 | 10 | 55 | 15.5 | 12 | 57 | 28.6 | 14 | 55 | 45.3 | 16 | 57 | 58.5 |
| 8 | 7 | 6 | 35.4 | 9 | 8 | 48.6 | 10 | 59 | 12.1 | 13 | 1 | 25.2 | 14 | 59 | 41.8 | 17 | 1 | 55.0 |
| 9 | 7 | 10 | 31.9 | 9 | 12 | 45.2 | 11 | 3 | 8.6 | 13 | 5 | 21.8 | 15 | 3 | 38.4 | 17 | 5 | 51.6 |
| 10 | 7 | 14 | 28.5 | 9 | 16 | 41.7 | 11 | 7 | 5.2 | 13 | 9 | 18.3 | 15 | 7 | 34.9 | 17 | 9 | 48.2 |
| 11 | 7 | 18 | 25.0 | 9 | 20 | 38.3 | 11 | 11 | 1.7 | 13 | 13 | 14.9 | 15 | 11 | 31.5 | 17 | 13 | 44.7 |
| 12 | 7 | 22 | 21.6 | 9 | 24 | 34.8 | 11 | 14 | 58.3 | 13 | 17 | 11.4 | 15 | 15 | 28.0 | 17 | 17 | 41.3 |
| 13 | 7 | 26 | 18.1 | 9 | 28 | 31.4 | 11 | 18 | 54.9 | 13 | 21 | 8.0 | 15 | 19 | 24.6 | 17 | 21 | 37.8 |
| 14 | 7 | 30 | 14.7 | 9 | 32 | 27.9 | 11 | 22 | 51.4 | 13 | 25 | 4.5 | 15 | 23 | 21.1 | 17 | 25 | 34.4 |
| 15 | 7 | 34 | 11.3 | 9 | 36 | 24.5 | 11 | 26 | 48.0 | 13 | 29 | 1.1 | 15 | 27 | 17.7 | 17 | 29 | 30.9 |
| 16 | 7 | 38 | 7.8 | 9 | 40 | 21.0 | 11 | 30 | 44.5 | 13 | 32 | 57.6 | 15 | 31 | 14.2 | 17 | 33 | 27.5 |
| 17 | 7 | 42 | 4.4 | 9 | 44 | 17.6 | 11 | 34 | 41.1 | 13 | 36 | 54.2 | 15 | 35 | 10.8 | 17 | 37 | 24.0 |
| 18 | 7 | 46 | 0.9 | 9 | 48 | 14.2 | 11 | 38 | 37.6 | 13 | 40 | 50.7 | 15 | 39 | 7.3 | 17 | 41 | 20.6 |
| 19 | 7 | 49 | 57.5 | 9 | 52 | 10.7 | 11 | 42 | 34.2 | 13 | 44 | 47.3 | 15 | 43 | 3.9 | 17 | 45 | 17.2 |
| 20 | 7 | 53 | 54.1 | 9 | 56 | 7.3 | 11 | 46 | 30.7 | 13 | 48 | 43.8 | 15 | 47 | 0.5 | 17 | 49 | 13.7 |
| 21 | 7 | 57 | 50.6 | 10 | 0 | 3.8 | 11 | 50 | 27.3 | 13 | 52 | 40.4 | 15 | 50 | 57.0 | 17 | 53 | 10.3 |
| 22 | 8 | 1 | 47.2 | 10 | 4 | 0.3 | 11 | 54 | 23.8 | 13 | 56 | 36.9 | 15 | 54 | 53.6 | 17 | 57 | 6.8 |
| 23 | 8 | 5 | 43.7 | 10 | 7 | 56.9 | 11 | 58 | 20.4 | 14 | 0 | 33.5 | 15 | 58 | 50.1 | 18 | 1 | 3.4 |
| 24 | 8 | 9 | 40.3 | 10 | 11 | 53.4 | 12 | 2 | 16.9 | 14 | 4 | 30.0 | 16 | 2 | 46.7 | 18 | 5 | 0.0 |
| 25 | 8 | 13 | 36.8 | 10 | 15 | 50.0 | 12 | 6 | 13.5 | 14 | 8 | 26.6 | 16 | 6 | 43.3 | 18 | 8 | 56.5 |
| 26 | 8 | 17 | 33.4 | 10 | 19 | 46.6 | 12 | 10 | 10.0 | 14 | 12 | 23.2 | 16 | 10 | 39.8 | 18 | 12 | 53.1 |
| 27 | 8 | 21 | 29.9 | 10 | 23 | 43.1 | 12 | 14 | 6.6 | 14 | 16 | 19.7 | 16 | 14 | 36.4 | 18 | 16 | 49.6 |
| 28 | 8 | 25 | 26.5 | 10 | 27 | 39.7 | 12 | 18 | 3.1 | 14 | 20 | 16.3 | 16 | 18 | 32.9 | 18 | 20 | 46.2 |
| 29 | 8 | 29 | 23.0 | 10 | 31 | 36.2 | 12 | 21 | 59.7 | 14 | 24 | 12.8 | 16 | 22 | 29.5 | 18 | 24 | 42.7 |
| 30 | 8 | 33 | 19.6 | 10 | 35 | 32.8 | 12 | 25 | 56.2 | 14 | 28 | 9.4 | 16 | 26 | 26.0 | 18 | 28 | 39.3 |
| 31 | 8 | 37 | 16.2 | 10 | 39 | 29.3 | 12 | 29 | 52.8 | 14 | 32 | 5.9 | 16 | 30 | 22.6 | 18 | 32 | 35.8 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | P. P. | | | | | | | | | | | |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-------|------|---|------|---|------|---|------|---|------|---|------|
| 0 | m | m | s | m | m | s | m | m | s | m | m | s | m | m | s | | | | | | | | | |
| 5 | 0 | 0.0 | 0 | 9.9 | 0 | 19.7 | 0 | 29.6 | 0 | 39.4 | 0 | 49.3 | 0 | 59.1 | 1 | 9.0 | 1 | 18.9 | 1 | 28.7 | 1 | 38.6 | 1 | 48.4 |
| 10 | 0 | 0.8 | 0 | 10.7 | 0 | 20.5 | 0 | 30.4 | 0 | 40.2 | 0 | 50.1 | 1 | 0.0 | 1 | 9.8 | 1 | 19.7 | 1 | 29.5 | 1 | 39.4 | 1 | 49.2 |
| 15 | 0 | 1.6 | 0 | 11.5 | 0 | 21.4 | 0 | 31.2 | 0 | 41.1 | 0 | 50.9 | 1 | 0.8 | 1 | 10.6 | 1 | 20.5 | 1 | 30.4 | 1 | 40.2 | 1 | 50.1 |
| 20 | 0 | 2.5 | 0 | 12.3 | 0 | 22.2 | 0 | 32.0 | 0 | 41.9 | 0 | 51.7 | 1 | 1.6 | 1 | 11.5 | 1 | 21.3 | 1 | 31.2 | 1 | 41.0 | 1 | 50.9 |
| 25 | 0 | 3.3 | 0 | 13.1 | 0 | 23.0 | 0 | 32.9 | 0 | 42.7 | 0 | 52.6 | 1 | 2.4 | 1 | 12.3 | 1 | 22.1 | 1 | 32.0 | 1 | 41.8 | 1 | 51.7 |
| 30 | 0 | 4.1 | 0 | 14.0 | 0 | 23.8 | 0 | 33.7 | 0 | 43.5 | 0 | 53.4 | 1 | 3.2 | 1 | 13.1 | 1 | 23.0 | 1 | 32.8 | 1 | 42.7 | 1 | 52.5 |
| 35 | 0 | 4.9 | 0 | 14.8 | 0 | 24.6 | 0 | 34.5 | 0 | 44.4 | 0 | 54.2 | 1 | 4.1 | 1 | 13.9 | 1 | 23.8 | 1 | 33.6 | 1 | 43.5 | 1 | 53.3 |
| 40 | 0 | 5.8 | 0 | 15.6 | 0 | 25.5 | 0 | 35.3 | 0 | 45.2 | 0 | 55.0 | 1 | 4.9 | 1 | 14.7 | 1 | 24.6 | 1 | 34.5 | 1 | 44.3 | 1 | 54.2 |
| 45 | 0 | 6.6 | 0 | 16.4 | 0 | 26.3 | 0 | 36.1 | 0 | 46.0 | 0 | 55.9 | 1 | 5.7 | 1 | 15.6 | 1 | 25.4 | 1 | 35.3 | 1 | 45.1 | 1 | 55.0 |
| 50 | 0 | 7.4 | 0 | 17.2 | 0 | 27.1 | 0 | 37.0 | 0 | 46.8 | 0 | 56.7 | 1 | 6.5 | 1 | 16.4 | 1 | 26.2 | 1 | 36.1 | 1 | 46.0 | 1 | 55.8 |
| 55 | 0 | 8.2 | 0 | 18.1 | 0 | 27.9 | 0 | 37.8 | 0 | 47.6 | 0 | 57.5 | 1 | 7.4 | 1 | 17.2 | 1 | 27.1 | 1 | 36.9 | 1 | 46.8 | 1 | 56.6 |
| 60 | 0 | 9.0 | 0 | 18.9 | 0 | 28.7 | 0 | 38.6 | 0 | 48.5 | 0 | 58.3 | 1 | 8.2 | 1 | 18.0 | 1 | 27.9 | 1 | 37.7 | 1 | 47.6 | 1 | 57.5 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| Day of Month | Sidereal Time of 0 ^h Civil Time at Greenwich (R. A. M. S.+12 ^h) | | | | | | | | | | | | | | | | | |
|--------------------|--|----|------|--------|----|------|-----------|----|------|---------|----|------|----------|----|------|----------|----|------|
| | July | | | August | | | September | | | October | | | November | | | December | | |
| 1 | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 18 | 32 | 35.8 | 20 | 34 | 49.1 | 22 | 37 | 2.3 | 0 | 35 | 18.8 | 2 | 37 | 31.9 | 4 | 35 | 48.6 |
| 2 | 18 | 36 | 32.4 | 20 | 38 | 45.6 | 22 | 40 | 58.8 | 0 | 39 | 15.4 | 2 | 41 | 28.5 | 4 | 39 | 45.2 |
| 3 | 18 | 40 | 29.0 | 20 | 42 | 42.2 | 22 | 44 | 55.3 | 0 | 43 | 11.9 | 2 | 45 | 25.1 | 4 | 43 | 41.7 |
| 4 | 18 | 44 | 25.5 | 20 | 46 | 38.8 | 22 | 48 | 51.9 | 0 | 47 | 8.5 | 2 | 49 | 21.6 | 4 | 47 | 38.3 |
| 5 | 18 | 48 | 22.1 | 20 | 50 | 35.3 | 22 | 52 | 48.4 | 0 | 51 | 5.0 | 2 | 53 | 18.2 | 4 | 51 | 34.8 |
| 6 | 18 | 52 | 18.6 | 20 | 54 | 31.9 | 22 | 56 | 45.0 | 0 | 55 | 1.6 | 2 | 57 | 14.7 | 4 | 55 | 31.4 |
| 7 | 18 | 56 | 15.2 | 20 | 58 | 28.4 | 23 | 0 | 41.6 | 0 | 58 | 58.1 | 3 | 1 | 11.3 | 4 | 59 | 27.9 |
| 8 | 19 | 0 | 11.7 | 21 | 2 | 25.0 | 23 | 4 | 38.1 | 1 | 2 | 54.7 | 3 | 5 | 7.8 | 5 | 3 | 24.5 |
| 9 | 19 | 4 | 8.3 | 21 | 6 | 21.5 | 23 | 8 | 34.7 | 1 | 6 | 51.2 | 3 | 9 | 4.4 | 5 | 7 | 21.1 |
| 10 | 19 | 8 | 4.8 | 21 | 10 | 18.1 | 23 | 12 | 31.2 | 1 | 10 | 47.8 | 3 | 13 | 0.9 | 5 | 11 | 17.6 |
| 11 | 19 | 12 | 1.4 | 21 | 14 | 14.6 | 23 | 16 | 27.8 | 1 | 14 | 44.3 | 3 | 16 | 57.5 | 5 | 15 | 14.2 |
| 12 | 19 | 15 | 58.0 | 21 | 18 | 11.2 | 23 | 20 | 24.3 | 1 | 18 | 40.9 | 3 | 20 | 54.0 | 5 | 19 | 10.7 |
| 13 | 19 | 19 | 54.5 | 21 | 22 | 7.7 | 23 | 24 | 20.9 | 1 | 22 | 37.4 | 3 | 24 | 50.6 | 5 | 23 | 7.3 |
| 14 | 19 | 23 | 51.1 | 21 | 26 | 4.3 | 23 | 28 | 17.4 | 1 | 26 | 34.0 | 3 | 28 | 47.2 | 5 | 27 | 3.9 |
| 15 | 19 | 27 | 47.6 | 21 | 30 | 0.9 | 23 | 32 | 14.0 | 1 | 30 | 30.5 | 3 | 32 | 43.7 | 5 | 31 | 0.4 |
| 16 | 19 | 31 | 44.2 | 21 | 33 | 57.4 | 23 | 36 | 10.5 | 1 | 34 | 27.1 | 3 | 36 | 40.3 | 5 | 34 | 57.0 |
| 17 | 19 | 35 | 40.8 | 21 | 37 | 54.0 | 23 | 40 | 7.1 | 1 | 38 | 23.6 | 3 | 40 | 36.8 | 5 | 38 | 53.5 |
| 18 | 19 | 39 | 37.3 | 21 | 41 | 50.5 | 23 | 44 | 3.6 | 1 | 42 | 20.2 | 3 | 44 | 33.4 | 5 | 42 | 50.1 |
| 19 | 19 | 43 | 33.9 | 21 | 45 | 47.1 | 23 | 48 | 0.2 | 1 | 46 | 16.8 | 3 | 48 | 29.9 | 5 | 46 | 46.6 |
| 20 | 19 | 47 | 30.4 | 21 | 49 | 43.6 | 23 | 51 | 56.7 | 1 | 50 | 13.3 | 3 | 52 | 26.5 | 5 | 50 | 43.2 |
| 21 | 19 | 51 | 27.0 | 21 | 53 | 40.2 | 23 | 55 | 53.3 | 1 | 54 | 9.9 | 3 | 56 | 23.0 | 5 | 54 | 39.7 |
| 22 | 19 | 55 | 23.5 | 21 | 57 | 36.7 | 23 | 59 | 49.9 | 1 | 58 | 6.4 | 4 | 0 | 19.6 | 5 | 58 | 36.3 |
| 23 | 19 | 59 | 20.1 | 22 | 1 | 33.3 | 0 | 3 | 46.4 | 2 | 2 | 3.0 | 4 | 4 | 16.1 | 6 | 2 | 32.8 |
| 24 | 20 | 3 | 16.6 | 22 | 5 | 29.8 | 0 | 7 | 43.0 | 2 | 5 | 59.5 | 4 | 8 | 12.7 | 6 | 6 | 29.4 |
| 25 | 20 | 7 | 13.2 | 22 | 9 | 26.4 | 0 | 11 | 39.5 | 2 | 9 | 56.1 | 4 | 12 | 9.3 | 6 | 10 | 26.0 |
| 26 | 20 | 11 | 9.8 | 22 | 13 | 22.9 | 0 | 15 | 36.1 | 2 | 13 | 52.6 | 4 | 16 | 5.8 | 6 | 14 | 22.5 |
| 27 | 20 | 15 | 6.3 | 22 | 17 | 19.5 | 0 | 19 | 32.6 | 2 | 17 | 49.2 | 4 | 20 | 2.4 | 6 | 18 | 19.1 |
| 28 | 20 | 19 | 2.9 | 22 | 21 | 16.1 | 0 | 23 | 29.2 | 2 | 21 | 45.7 | 4 | 23 | 58.9 | 6 | 22 | 15.7 |
| 29 | 20 | 22 | 59.4 | 22 | 25 | 12.6 | 0 | 27 | 25.7 | 2 | 25 | 42.3 | 4 | 27 | 55.5 | 6 | 26 | 12.2 |
| 30 | 20 | 26 | 56.0 | 22 | 29 | 9.2 | 0 | 31 | 22.3 | 2 | 29 | 38.8 | 4 | 31 | 52.1 | 6 | 30 | 8.8 |
| 31 | 20 | 30 | 52.5 | 22 | 33 | 5.7 | 0 | 35 | 18.8 | 2 | 33 | 35.4 | 4 | 35 | 48.6 | 6 | 34 | 5.3 |

CORRECTION FOR LONGITUDE FROM GREENWICH

(This correction table is equivalent to Table VI)

| Longitude | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | | | | | | | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|------|---|------|---|------|---|------|---|------|---|------|
| m | m | s | m | m | s | m | m | s | m | s | m | s | | | | | | | | | | | | |
| 0 | 1 | 58.3 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | 3 | 7.3 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 |
| 5 | 1 | 59.1 | 2 | 9.0 | 2 | 18.8 | 2 | 28.7 | 2 | 38.5 | 2 | 48.4 | 2 | 58.2 | 3 | 8.1 | 3 | 18.0 | 3 | 27.8 | 3 | 37.7 | 3 | 47.5 |
| 10 | 1 | 59.9 | 2 | 9.8 | 2 | 19.6 | 2 | 29.5 | 2 | 39.3 | 2 | 49.2 | 2 | 59.1 | 3 | 8.9 | 3 | 18.8 | 3 | 28.6 | 3 | 38.5 | 3 | 48.3 |
| 15 | 2 | 0.7 | 2 | 10.6 | 2 | 20.5 | 2 | 30.3 | 2 | 40.2 | 2 | 50.0 | 2 | 59.9 | 3 | 9.7 | 3 | 19.6 | 3 | 29.4 | 3 | 39.3 | 3 | 49.2 |
| 20 | 2 | 1.6 | 2 | 11.4 | 2 | 21.3 | 2 | 31.1 | 2 | 41.0 | 2 | 50.8 | 3 | 0.7 | 3 | 10.6 | 3 | 20.4 | 3 | 30.3 | 3 | 40.1 | 3 | 50.0 |
| 25 | 2 | 2.4 | 2 | 12.2 | 2 | 22.1 | 2 | 32.0 | 2 | 41.8 | 2 | 51.7 | 3 | 1.5 | 3 | 11.4 | 3 | 21.2 | 3 | 31.1 | 3 | 40.9 | 3 | 50.8 |
| 30 | 2 | 3.2 | 2 | 13.1 | 2 | 22.9 | 2 | 32.8 | 2 | 42.6 | 2 | 52.5 | 3 | 2.3 | 3 | 12.2 | 3 | 22.1 | 3 | 31.9 | 3 | 41.8 | 3 | 51.6 |
| 35 | 2 | 4.0 | 2 | 13.9 | 2 | 23.7 | 2 | 33.6 | 2 | 43.5 | 2 | 53.3 | 3 | 3.2 | 3 | 13.0 | 3 | 22.9 | 3 | 32.7 | 3 | 42.6 | 3 | 52.4 |
| 40 | 2 | 4.8 | 2 | 14.7 | 2 | 24.6 | 2 | 34.4 | 2 | 44.3 | 2 | 54.1 | 3 | 4.0 | 3 | 13.8 | 3 | 23.7 | 3 | 33.6 | 3 | 43.4 | 3 | 53.3 |
| 45 | 2 | 5.7 | 2 | 15.5 | 2 | 25.4 | 2 | 35.2 | 2 | 45.1 | 2 | 55.0 | 3 | 4.8 | 3 | 14.7 | 3 | 24.5 | 3 | 34.4 | 3 | 44.2 | 3 | 54.1 |
| 50 | 2 | 6.5 | 2 | 16.3 | 2 | 26.2 | 2 | 36.1 | 2 | 45.9 | 2 | 55.8 | 3 | 5.6 | 3 | 15.5 | 3 | 25.3 | 3 | 35.2 | 3 | 45.1 | 3 | 54.9 |
| 55 | 2 | 7.3 | 2 | 17.2 | 2 | 27.0 | 2 | 36.9 | 2 | 46.7 | 2 | 56.6 | 3 | 6.5 | 3 | 16.3 | 3 | 26.2 | 3 | 36.0 | 3 | 45.9 | 3 | 55.7 |
| 60 | 2 | 8.1 | 2 | 18.0 | 2 | 27.8 | 2 | 37.7 | 2 | 47.6 | 2 | 57.4 | 3 | 7.3 | 3 | 17.1 | 3 | 27.0 | 3 | 36.8 | 3 | 46.7 | 3 | 56.6 |

NOTE.—The correction is to be added to Sidereal Time of 0^h Civil Time at Greenwich to obtain Sidereal Time of 0^h Civil Time at any longitude west of Greenwich; to be subtracted if the longitude is east of Greenwich.

| G. C. T. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. | Equation of Time | Sun's Declination | Sun's G. H. A. |
|-------------|------------------|-------------------|----------------|------------------|-------------------|----------------|------------------|-------------------|----------------|
| Sunday 1 | | | | | | | | | |
| h | m s | ° s' | ° s' | m s | ° s' | ° s' | m s | ° s' | ° s' |
| 0 | -3 6.4 | -23 5.5 | 179 13.4 | -4 58.2 | -22 44.1 | 178 45.5 | -6 43.4 | -22 15.5 | 178 19.2 |
| 2 | 3 8.7 | 23 5.2 | 209 12.8 | 5 0.4 | 22 43.6 | 208 44.9 | 6 45.5 | 22 14.8 | 208 18.6 |
| 4 | 3 11.1 | 23 4.8 | 239 12.2 | 5 2.7 | 22 43.1 | 238 44.3 | 6 47.6 | 22 14.1 | 238 18.1 |
| 6 | 3 13.5 | 23 4.4 | 269 11.6 | 5 4.9 | 22 42.5 | 268 43.8 | 6 49.7 | 22 13.4 | 268 17.6 |
| 8 | 3 15.9 | 23 4.0 | 299 11.0 | 5 7.2 | 22 42.0 | 298 43.2 | 6 51.8 | 22 12.8 | 298 17.0 |
| 10 | 3 18.3 | 23 3.7 | 329 10.4 | 5 9.5 | 22 41.5 | 328 42.6 | 6 53.9 | 22 12.1 | 328 16.5 |
| 12 | 3 20.6 | 23 3.3 | 359 9.8 | 5 11.7 | 22 40.9 | 358 42.1 | 6 56.0 | 22 11.4 | 358 16.0 |
| 14 | 3 23.0 | 23 2.9 | 29 9.3 | 5 14.0 | 22 40.4 | 28 41.5 | 6 58.1 | 22 10.7 | 28 15.5 |
| 16 | 3 25.4 | 23 2.5 | 59 8.7 | 5 16.2 | 22 39.8 | 58 41.0 | 7 0.2 | 22 10.0 | 58 15.0 |
| 18 | 3 27.7 | 23 2.1 | 89 8.1 | 5 18.4 | 22 39.3 | 88 40.4 | 7 2.3 | 22 9.3 | 88 14.4 |
| 20 | 3 30.1 | 23 1.7 | 119 7.5 | 5 20.7 | 22 38.7 | 118 39.8 | 7 4.4 | 22 8.6 | 118 13.9 |
| 22 | 3 32.5 | 23 1.3 | 149 6.9 | 5 22.9 | 22 38.2 | 148 39.3 | 7 6.4 | 22 7.9 | 148 13.4 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.3 | ... |
| Monday 2 | | | | | | | | | |
| 0 | -3 34.8 | -23 0.9 | 179 6.3 | -5 25.2 | -22 37.6 | 178 38.7 | -7 8.5 | -22 7.2 | 178 12.9 |
| 2 | 3 37.2 | 23 0.5 | 209 5.7 | 5 27.4 | 22 37.1 | 208 38.2 | 7 10.6 | 22 6.5 | 208 12.4 |
| 4 | 3 39.5 | 23 0.1 | 239 5.1 | 5 29.6 | 22 36.5 | 238 37.6 | 7 12.6 | 22 5.8 | 238 11.8 |
| 6 | 3 41.9 | 22 59.6 | 269 4.5 | 5 31.8 | 22 35.9 | 268 37.0 | 7 14.7 | 22 5.1 | 268 11.3 |
| 8 | 3 44.3 | 22 59.2 | 299 3.9 | 5 34.1 | 22 35.4 | 298 36.5 | 7 16.8 | 22 4.4 | 298 10.8 |
| 10 | 3 46.6 | 22 58.8 | 329 3.4 | 5 36.3 | 22 34.8 | 328 35.9 | 7 18.8 | 22 3.6 | 328 10.3 |
| 12 | 3 49.0 | 22 58.4 | 359 2.8 | 5 38.5 | 22 34.2 | 358 35.4 | 7 20.9 | 22 2.9 | 358 9.8 |
| 14 | 3 51.3 | 22 57.9 | 29 2.2 | 5 40.7 | 22 33.6 | 28 34.8 | 7 22.9 | 22 2.2 | 28 9.3 |
| 16 | 3 53.6 | 22 57.5 | 59 1.6 | 5 42.9 | 22 33.0 | 58 34.3 | 7 25.0 | 22 1.5 | 58 8.8 |
| 18 | 3 56.0 | 22 57.1 | 89 1.0 | 5 45.1 | 22 32.5 | 88 33.7 | 7 27.0 | 22 0.7 | 88 8.3 |
| 20 | 3 58.3 | 22 56.6 | 119 0.4 | 5 47.3 | 22 31.9 | 118 33.2 | 7 29.0 | 22 0.0 | 118 7.7 |
| 22 | 4 0.7 | 22 56.2 | 148 59.8 | 5 49.5 | 22 31.3 | 148 32.6 | 7 31.1 | 21 59.3 | 148 7.2 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Tuesday 3 | | | | | | | | | |
| 0 | -4 3.0 | -22 55.7 | 178 59.3 | -5 51.7 | -22 30.7 | 178 32.1 | -7 33.1 | -21 58.5 | 178 6.7 |
| 2 | 4 5.3 | 22 55.3 | 208 58.7 | 5 53.9 | 22 30.1 | 208 31.5 | 7 35.1 | 21 57.8 | 208 6.2 |
| 4 | 4 7.6 | 22 54.8 | 238 58.1 | 5 56.1 | 22 29.5 | 238 31.0 | 7 37.1 | 21 57.0 | 238 5.7 |
| 6 | 4 10.0 | 22 54.4 | 268 57.5 | 5 58.3 | 22 28.9 | 268 30.4 | 7 39.2 | 21 56.3 | 268 5.2 |
| 8 | 4 12.3 | 22 53.9 | 298 56.9 | 6 0.4 | 22 28.3 | 298 29.9 | 7 41.2 | 21 55.5 | 298 4.7 |
| 10 | 4 14.6 | 22 53.5 | 328 56.3 | 6 2.6 | 22 27.7 | 328 29.3 | 7 43.2 | 21 54.8 | 328 4.2 |
| 12 | 4 16.9 | 22 53.0 | 358 55.8 | 6 4.8 | 22 27.0 | 358 28.8 | 7 45.2 | 21 54.0 | 358 3.7 |
| 14 | 4 19.2 | 22 52.5 | 28 55.2 | 6 7.0 | 22 26.4 | 28 28.3 | 7 47.2 | 21 53.2 | 28 3.2 |
| 16 | 4 21.5 | 22 52.1 | 58 54.6 | 6 9.1 | 22 25.8 | 58 27.7 | 7 49.2 | 21 52.5 | 58 2.7 |
| 18 | 4 23.9 | 22 51.6 | 88 54.0 | 6 11.3 | 22 25.2 | 88 27.2 | 7 51.2 | 21 51.7 | 88 2.2 |
| 20 | 4 26.2 | 22 51.1 | 118 53.4 | 6 13.5 | 22 24.6 | 118 26.6 | 7 53.2 | 21 50.9 | 118 1.7 |
| 22 | 4 28.5 | 22 50.6 | 148 52.9 | 6 15.6 | 22 23.9 | 148 26.1 | 7 55.2 | 21 50.2 | 148 1.2 |
| H. D. | 1.2 | 0.2 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Wednesday 4 | | | | | | | | | |
| 0 | 4 30.8 | -22 50.2 | 178 52.3 | -6 17.8 | -22 23.3 | 178 25.6 | -7 57.1 | -21 49.4 | 178 0.7 |
| 2 | 4 33.1 | 22 49.7 | 208 51.7 | 6 19.9 | 22 22.7 | 208 25.0 | 7 59.1 | 21 48.6 | 208 0.2 |
| 4 | 4 35.4 | 22 49.2 | 238 51.2 | 6 22.1 | 22 22.0 | 238 24.5 | 8 1.1 | 21 47.8 | 237 59.7 |
| 6 | 4 37.7 | 22 48.7 | 268 50.6 | 6 24.2 | 22 21.4 | 268 23.9 | 8 3.1 | 21 47.0 | 267 59.2 |
| 8 | 4 39.9 | 22 48.2 | 298 50.0 | 6 26.4 | 22 20.7 | 298 23.4 | 8 5.0 | 21 46.3 | 297 58.8 |
| 10 | 4 42.2 | 22 47.7 | 328 49.4 | 6 28.5 | 22 20.1 | 328 22.9 | 8 7.0 | 21 45.5 | 327 58.3 |
| 12 | 4 44.5 | 22 47.2 | 358 48.9 | 6 30.6 | 22 19.4 | 358 22.3 | 8 8.9 | 21 44.7 | 357 57.8 |
| 14 | 4 46.8 | 22 46.7 | 28 48.3 | 6 32.8 | 22 18.8 | 28 21.8 | 8 10.9 | 21 43.9 | 27 57.3 |
| 16 | 4 49.1 | 22 46.2 | 58 47.7 | 6 34.9 | 22 18.1 | 58 21.3 | 8 12.8 | 21 43.1 | 57 56.8 |
| 18 | 4 51.4 | 22 45.7 | 88 47.2 | 6 37.0 | 22 17.5 | 88 20.7 | 8 14.8 | 21 42.3 | 87 56.3 |
| 20 | 4 53.6 | 22 45.2 | 118 46.6 | 6 39.2 | 22 16.8 | 118 20.2 | 8 16.7 | 21 41.5 | 117 55.8 |
| 22 | -4 55.9 | -22 44.6 | 148 46.0 | -6 41.3 | -22 16.1 | 148 19.7 | -8 18.7 | -21 40.6 | 147 55.3 |
| H. D. | 1.1 | 0.3 | ... | 1.1 | 0.3 | ... | 1.0 | 0.4 | ... |
| Sunday 8 | | | | | | | | | |
| Thursday 12 | | | | | | | | | |

NOTE.—The Equation of Time is to be applied to the G. C. T. in accordance with the sign as given