

1862.] JANUARY HAS 31 DAYS AND BEGINS ON THURSDAY. [5

| MOON'S PHASES.                   |         |          |    | THE<br>PLANETS.      | 1st JANUARY.      |                          |       | 15th JANUARY.     |                          |       |
|----------------------------------|---------|----------|----|----------------------|-------------------|--------------------------|-------|-------------------|--------------------------|-------|
| d. h. m.                         |         |          |    |                      | Meridian          | Right<br>Ascen-<br>sion. | Decl. | Meridian          | Right<br>Ascen-<br>sion. | Decl. |
| ○ Full Moon ...                  | 6       | 12       | 52 |                      |                   |                          |       |                   |                          |       |
| ● Last Quarter..                 | 13      | 08       | 01 |                      |                   |                          |       |                   |                          |       |
| ● New Moon...                    | 20      | 14       | 10 |                      |                   |                          |       |                   |                          |       |
| ● First Quarter..                | 28      | 17       | 17 |                      |                   |                          |       |                   |                          |       |
| ☾ Perigee .....                  | 10      | 05       |    |                      |                   |                          |       |                   |                          |       |
| ☾ Apogee.....                    | 26      | 02       |    |                      |                   |                          |       |                   |                          |       |
| Semidiameter at Greenwich, Noon. |         |          |    |                      |                   |                          |       |                   |                          |       |
| Date.                            | Of sun. | Of Moon. |    |                      |                   |                          |       |                   |                          |       |
|                                  | "       | "        |    |                      |                   |                          |       |                   |                          |       |
| 1                                | 16 17.3 | 14 59.3  |    | ♿ Mercury            | A. m.             | A. m.                    | °     | A. m.             | A. m.                    | °     |
| 10                               | 16 17.1 | 16 14.5  |    | ♀ Venus.             | An Evening Star.  | 20 24 20                 | 57 S  | An Evening Star.  | 18 29 20                 | 08 S  |
| 20                               | 16 16.4 | 15 15.9  |    | ♂ Mars.              | 2 22 m            | 9 02 20                  | 56 N  | 1 10 m            | 8 45 22                  | 34 N  |
| 30                               | 16 15.2 | 15 08.9  |    | ♃ Jupiter.           | 8 16 m            | 14 59 15                 | 53 S  | 7 30 m            | 15 07 16                 | 28 S  |
|                                  |         |          |    | ♄ Saturn.            | 7 02 a            | 1 43 8                   | 12 N  | 6 08 a            | 1 46 8                   | 21 N  |
|                                  |         |          |    | ♅ Uranus.            | 7 11 a            | 1 54 11                  | 10 N  | 6 15 a            | 1 54 11                  | 11 N  |
|                                  |         |          |    | ♆ Neptune.           | 3 53 a            | 22 36 9                  | 43 S  | 3 00 a            | 22 38 9                  | 34 S  |
|                                  |         |          |    | Mean time of transit | 5 17 03.4 evening |                          |       | 4 22 00.7 evening |                          |       |

Meteorological Comparisons for the month of January.

|                             | Hamilton,<br>C. W. | Quebec,<br>C. E. | Frederic-<br>ton, N. B. | Makara's<br>Scotland. | Toronto,<br>C. W. |
|-----------------------------|--------------------|------------------|-------------------------|-----------------------|-------------------|
| Mean Temperature.....       | 28.3               | 9.9              | 12.5                    | 36.0                  | 24.7              |
| Mean Highest Temperature    | 53.6               | 39.7             | 43.7                    | 50.6                  | 45.3              |
| Mean Lowest Temperature.    | 2.8                | -21.5            | -22.7                   | 15.0                  | -4.4              |
| Mean Humidity of the Air.   | •                  | •                | •                       | 90                    | 82                |
| Average No. of days of Rain | 4.2                | •                | 1.3                     | •                     | 5.2               |
| Average Rain, in inches...  | •                  | •                | •                       | 1.841                 | 2.215             |
| Average No. of days of Snow | •                  | •                | 12.3                    | •                     | 9.7               |

| Day of<br>Week. | Day of<br>Year. | Remarkable Days.                | Sun's<br>Decl'n<br>South. | App. noon<br>showing<br>the Eq. of<br>time. | Sun.     |          |           |          | Moon.    |          |
|-----------------|-----------------|---------------------------------|---------------------------|---------------------------------------------|----------|----------|-----------|----------|----------|----------|
|                 |                 |                                 |                           |                                             | Toronto. |          | Montreal. |          | Toronto. |          |
|                 |                 |                                 |                           |                                             | Rises    | Sets.    | Rises     | Sets.    | Sets.    | Sets.    |
| 1 Thur.         | 1               | Circumcision.                   | 0                         | h. m. s.                                    | h. m. s. | h. m. s. | h. m. s.  | h. m. s. | h. m. s. | h. m. s. |
| 2 Friday        | 2               | (1st) Edmund Burke b 1730.      | 23 02.4                   | 12 03 44                                    | 7 40 4   | 28 7 47  | 4 21      | 1 27 m   | 1 29 m   |          |
| 3 Satur.        | 3               | Battle of Princeton, 1777.      | 22 57.3                   | 12 04 12                                    | 7 40 4   | 29 7 46  | 4 22      | 2 28     | 2 31     |          |
| 4 Sun.          | 4               | Earthquake in Canada, 1663.     | 22 51.8                   | 12 04 40                                    | 7 40 4   | 30 7 46  | 4 23      | 3 29     | 3 33     |          |
| 5 Mond.         | 5               | Treaty bet'n Brit. & U.S. 1784. | 22 45.8                   | 12 05 07                                    | 7 40 4   | 30 7 46  | 4 24      | 4 33     | 4 39     |          |
| 6 Tues.         | 6               | Epiphany.                       | 22 39.4                   | 12 05 34                                    | 7 40 4   | 31 7 46  | 4 25      | 5 37     | 5 43     |          |
| 7 Wed.          | 7               | Full Moon, 0h. 52m., a. m.      | 22 32.5                   | 12 06 01                                    | 7 39 4   | 33 7 46  | 4 26      | 6 37 m   | 6 44 m   |          |
| 8 Thurs.        | 8               | Galileo d 1642.                 | 22 25.2                   | 12 06 27                                    | 7 39 4   | 34 7 46  | 4 27      | Rises.   | Rises.   |          |
| 9 Friday        | 9               | Fontenelle d 1757. [ailed 1850. | 22 17.4                   | 12 06 53                                    | 7 39 4   | 35 7 46  | 4 28      | 6 41 a   | 6 35 a   |          |
| 10 Satur.       | 10              | "Enterprise" & "Investigator"   | 22 09.2                   | 12 07 18                                    | 7 39 4   | 35 7 46  | 4 29      | 7 53     | 7 49     |          |
| 11 Sun.         | 11              | Dr. Dwight d 1753.              | 22 00.6                   | 12 07 43                                    | 7 39 4   | 37 7 46  | 4 30      | 9 06     | 9 03     |          |
| 12 Mond.        | 12              | Sir. C. Bagot, Gov. Gen. 1842.  | 21 51.5                   | 12 08 07                                    | 7 39 4   | 37 7 46  | 4 31      | 10 19    | 10 18    |          |
| 13 Tues.        | 13              | Last Quarter, 8h. 01m., p.m.    | 21 42.0                   | 12 08 30                                    | 7 38 4   | 38 7 46  | 4 32      | 11 32 a  | 11 31 a  |          |
| 14 Wed.         | 14              | Halley d 1742.                  | 21 32.1                   | 12 08 53                                    | 7 38 4   | 40 7 46  | 4 34      | Morn'g.  | Morn'g.  |          |
| 15 Thurs.       | 15              | General Wolfe b 1726.           | 21 21.8                   | 12 09 16                                    | 7 37 4   | 41 7 46  | 4 35      | 0 43 m   | 0 44 m   |          |
| 16 Friday       | 16              | Battle of Corunna, 1800.        | 21 11.0                   | 12 09 37                                    | 7 37 4   | 42 7 46  | 4 37      | 1 55     | * 1 57   |          |
| 17 Satur.       | 17              | Franklin b 1706.                | 20 59.9                   | 12 09 58                                    | 7 36 4   | 41 7 46  | 4 38      | 3 04     | 3 08     |          |
| 18 Sun.         | 18              | Cuidad Rodrigo stormed, 1812.   | 20 48.3                   | 12 10 18                                    | 7 36 4   | 45 7 46  | 4 39      | 4 15     | 4 19     |          |
| 19 Mond.        | 19              | James Watt b 1733.              | 20 36.4                   | 12 10 38                                    | 7 35 4   | 47 7 46  | 4 41      | 5 20     | 5 26     |          |
| 20 Tues.        | 20              | Howard d 1700.                  | 20 24.1                   | 12 10 57                                    | 7 34 4   | 48 7 46  | 4 42      | 6 21 m   | 6 27 m   |          |
| 21 Wed.         | 21              | New Moon, 2h. 10m., a. m.       | 20 11.3                   | 12 11 15                                    | 7 33 4   | 49 7 46  | 4 43      | Sets.    | Sets.    |          |
| 22 Thurs.       | 22              | (21st) ☿ enters Aquarius.       | 19 58.2                   | 12 11 33                                    | 7 33 4   | 50 7 46  | 4 44      | 5 11 a   | 5 06 a   |          |
| 23 Friday       | 23              | W. Pitt d 1806.                 | 19 44.8                   | 12 11 49                                    | 7 32 4   | 52 7 46  | 4 46      | 6 14     | 6 09     |          |
| 24 Satur.       | 24              | (25th) Burns b 1730.            | 19 30.9                   | 12 12 05                                    | 7 31 4   | 53 7 46  | 4 47      | 7 17     | 7 13     |          |
| 25 Sun.         | 25              | Sir F. B. Head, Lt. Gov. 1836.  | 19 16.7                   | 12 12 21                                    | 7 30 4   | 54 7 46  | 4 48      | 8 17     | 8 15     |          |
| 26 Mond.        | 26              | Francis Jeffrey d 1850.         | 19 02.2                   | 12 12 35                                    | 7 30 4   | 56 7 46  | 4 50      | 9 17     | 9 17     |          |
| 27 Tues.        | 27              | Mosart b 1756.                  | 18 47.3                   | 12 12 48                                    | 7 29 4   | 57 7 46  | 4 52      | 10 16    | 10 16    |          |
| 28 Wed.         | 28              | Gibbon d 1794.                  | 18 32.1                   | 12 13 01                                    | 7 28 4   | 58 7 46  | 4 53      | 11 15 a  | 11 16 a  |          |
| 29 Thurs.       | 29              | First Quarter, 5h. 17m., a. m.  | 18 16.5                   | 12 13 17                                    | 7 27 4   | 59 7 46  | 4 54      | Morn'g.  | Morn'g.  |          |
| 30 Friday       | 30              | Charles 1st beheaded, 1643.     | 18 00.6                   | 12 13 24                                    | 7 26 5   | 00 7 46  | 4 56      | 0 14 m   | 0 16 m   |          |
| 31 Satur.       | 31              | Earl of Elgin, Gov. Gen. 1847.  | 17 44.4                   | 12 13 34                                    | 7 25 5   | 02 7 46  | 4 58      | 1 16     | 1 19     |          |
|                 |                 |                                 | 17 27.8                   | 12 13 43                                    | 7 24 5   | 04 7 46  | 4 59      | 2 17 m   | 2 20 m   |          |