

## HERSCHEL'S WEATHER TABLE.

For foretelling the Weather, through all the lunations of the Moon forever.

| If the new Moon, the first quarter, the full Moon, or the last quarter happens | IN SUMMER.                       |  | IN WINTER.                                        |  |
|--------------------------------------------------------------------------------|----------------------------------|--|---------------------------------------------------|--|
|                                                                                |                                  |  |                                                   |  |
| Between midnight and 2 in the morning . . . . .                                | Fair . . . . .                   |  | { Hard Frost, unless the wind be S. or W. . . . . |  |
| — 2 and 4 morning . . . . .                                                    | Cold, frequent showers . . . . . |  | Snow and Stormy.                                  |  |
| — 4 and 7 " . . . . .                                                          | Rain . . . . .                   |  | Rain.                                             |  |
| — 6 and 8 " . . . . .                                                          | Wind and Rain . . . . .          |  | Stormy.                                           |  |
| — 8 and 10 " . . . . .                                                         | Changeable . . . . .             |  | { Cold rain, if the wind be west, snow if east.   |  |
| — 10 and 12 " . . . . .                                                        | Frequent showers . . . . .       |  | Cold, and high wind.                              |  |
| At 12 noon, and 2 P.M. . . . .                                                 | Very rainy . . . . .             |  | Snow and rain.                                    |  |
| Between 2 and 4 P.M. . . . .                                                   | Changeable . . . . .             |  | Fair and mild . . . . .                           |  |
| — 4 and 6 P.M. . . . .                                                         | Fair . . . . .                   |  | Fair.                                             |  |
| — 6 and 8 " . . . . .                                                          | { Fair if wind N.W. . . . .      |  | Fair and frosty, if wind north or north-east.     |  |
| — 8 and 10 " . . . . .                                                         | { Rainy, if S. or S.W. . . . .   |  | Rain or snow, if S.S.W.                           |  |
| — 10 and midnight . . . . .                                                    | Fair . . . . .                   |  | " " "                                             |  |
|                                                                                |                                  |  | Fair and frosty.                                  |  |

*Observations*—The nearest time of the Moon's change, the first quarter, full and the last quarter, are to midnight, the fairer will be the weather during the seven days following.

2. The space of this calculation occupies from ten at night till two next morning.

3. The nearer to mid-day or noon the phases of the Moon happen, the more foul or wet weather may be expected during the next seven days.

4. The space of calculation occupies from ten in the forenoon to two in the afternoon. These observations refer principally to the Summer, though they affect Spring and Autumn nearly in the same ratio.

5. The Moon's change, first quarter, full, and last quarter, happening during six as the afternoon hours, i.e., from four to ten, may be followed by fair weather.

## ECLIPSES FOR THE YEAR 1885.

There will be four Eclipses during the year 1885: two of the Sun and two of the Moon.

I. March 16th, there will be an annular Eclipse of the Sun, visible here as a partial Eclipse.

Eclipse begins March 16th, 3 h. 17, in Longitude  $136^{\circ} 57'$  W., in Latitude  $13^{\circ} 30'$  N.  
Eclipse ends " 8 h. 13, in "  $32^{\circ} 51'$  W. "  $49^{\circ} 6'$  N.

II. March 29-30, there will be a partial Eclipse of the Moon, not visible in these parts. Visible in the Eastern portions of Europe and Africa, in Asia and the Western Pacific Ocean.

First contact of shadow with Moon's limb  $139^{\circ}$  from the North point toward the East, when the Moon is in the Zenith, in Longitude  $135^{\circ} 53'$  East of Greenwich and in Latitude  $3^{\circ} 16'$  South.

Last contact of shadow with Moon's limb  $104^{\circ}$  from the North point, toward the West, when the Moon is in the Zenith, in Longitude  $89^{\circ} 32'$  East of Greenwich and in Latitude  $3^{\circ} 48'$  South.

III. September 8th, there will be a total Eclipse of the Sun, visible in the South Pacific Ocean, and therefore not visible here.

Eclipse begins Sept. 8th, 6 h. 34m in Long.  $171^{\circ} 53'$  E. and in Lat.  $16^{\circ} 12'$  S.

Eclipse ends " 7 h. 7 " "  $84^{\circ} 8'$  W. "  $50^{\circ} 29'$  S.

IV. September 23d, there will be a partial Eclipse of the Moon, visible here, on the Atlantic Ocean, North and South America, and on the Pacific Ocean.

Moon enters penumbra Sept. 23d, 11 h. 52m, Astronomical Time.

Middle of Eclipse " 14, 20 " " "

Moon leaves penumbra " 17, 27 " " "

First contact of shadow with Moon's limb  $37^{\circ}$  from the North point, toward the East; when the Moon is in the Zenith, in Long.  $95^{\circ} 45'$  West of Greenwich, and in Latitude  $0^{\circ} 13'$  South.

Last contact of shadow with Moon's limb  $73^{\circ}$  from the North point towards the West; when the Moon is in the Zenith, in Longitude  $141^{\circ} 37'$  West of Greenwich and in Lat.  $0^{\circ} 18'$  North.

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