

Duke of Hesse bestowed upon him an hereditary Baronetcy, and in 1852 he accepted a professorship at the University of Munich, as President of the Chemical Laboratory at that place, where a new and important sphere of operation was opened to him. He has composed numerous works, which have been translated into most European languages. His researches are recorded in his own journal (*Annalen*); in the "*Annales de Chimie et de Physique*;" and in the *Handbook of Chemistry*, commenced in 1836, by Poggendorf. He revised Geiger's "*Handbook of Pharmacy*," of which a corrected edition appeared at Heidelberg in 1839, and of which his section may be considered as forming a *Handbook of Organic Chemistry*.

His "*Organic Chemistry in its application to Agriculture*," published at Brunswick in 1840, has gone through several editions, and has been translated into English by Dr. Lyon Playfair, who studied under Liebig at Giessen. In a series of "*Familiar Letters*," he developed his views on Chemistry and its relations to commerce, physiology and vegetation, with such success, that the appearance of the work had the effect of inducing the foundation of several new chemical professorships in Germany. Professor Liebig, who frequently visited England, where his presence was always gladly hailed at the leading agricultural meetings, took much interest in the discussion of the great question of sewage in England, and his views have led to a better knowledge of this important subject. Of late years wide publicity has been given to his name in connection with his "*Extractum Carnis*," or "*Essence of Meat*." He was named Foreign Associate of the Academy of Sciences, Paris, in 1861.

Eclipses for 1873.

In the year 1873 there will be two Eclipses of the Sun, and two of the Moon.

I.—Total eclipse of the Moon, May 11, partly visible in Canada.

The following Table shews the local astronomical time at which such phases as are visible occur at different stations; the blank spaces indicating that the Moon at the corresponding stations will set before the occurrence of the phase.

| PHASE. | Halifax. | Frederict | Quebec. | Mont. cal | Toronto. |
|----------------------------------|----------|-----------|---------|-----------|----------|
| | h. m. | h. m. | h. m. | h. m. | h. m. |
| First contact with Penumbra..... | 16 13 | 16 3 | 15 43 | 15 33 | 15 9 |
| First contact with shadow..... | ... | ... | ... | ... | 10 12 |
| Beginning of total Phase..... | ... | ... | ... | ... | ... |
| Middle of Eclipse | ... | ... | ... | ... | ... |
| End of total Phase | ... | ... | ... | ... | ... |

Magnitude of the eclipse (Moon's diameter=1) 1.428. The first contact with the shadow occurs at 124° from the north point of the Moon's limb towards the east; and the last contact 82° towards the west; in each case for direct image.

II.—A partial eclipse of the Sun, May 25, 1873, visible in the eastern parts of Canada in the morning of May 26th (civil time). The eclipse begins on the earth generally, May 25, at 19h. 3m. Greenwich mean time, in longitude 26° 56' west and latitude 25° 4' north.

The greatest eclipse is at 21h. 8.8m., in longitude 99° 46' west, and latitude 63° 54 north: Magnitude 0.898, the Sun's diameter being unity.

The eclipse ends generally May 25, 23h. 14.5m., in longitude 131° 13 east of Greenwich, and latitude 52° 57 north.

The line on which the eclipse ends at sunrise crosses the St. Lawrence a little above Montreal.

AT HALIFAX the Sun rises partially eclipsed.
 Magnitude at sunrise 0.59
 Position 34° from northern point of Sun's disc towards the east.

AT FREDERICTON the Sun rises partially eclipsed.
 Magnitude at sunrise 0.56
 Position 40° from northern point of Sun's disc towards the east.

AT QUEBEC the Sun rises partially eclipsed.
 Magnitude at sunrise 0.56
 Position 54° from northern point of Sun's disc towards the east.

AT MONTREAL a very small portion of the Sun is eclipsed at rising.
 Magnitude at sunrise 0.06
 Position 58° from northern point of Sun's disc towards the east.

AT TORONTO the eclipse is not visible.

III.—A total eclipse of the Moon, Nov. 4, which occurs after the Moon has set at most parts of the Dominion. At Victoria, the first contacts with the Penumbra and with the shadow take place just before the Moon sets on the morning of Nov. 4.

IV.—A partial eclipse of the Sun, Nov. 19, 1873, invisible in Canada.—*Canadian Almanac*.

Periodicals Received.

THE AMERICAN FARMERS' ADVOCATE comes to hand for March, a little behind time, but the delay is accounted for by its improved appearance. The publishers, who have from the commencement shown unusual enterprise in giving a greater amount of reading matter, and of a quality unexcelled, have made one improvement after another. With this No. they commence printing upon fine paper, from clear, new type, furnishing as heretofore sixteen large pages of reading matter, stitched and cut. Every farmer and every business man should take it, and the publishers have adopted a plan which enables everybody to obtain it without cost. By sending them a subscription for any \$2 or higher priced paper or magazine they furnish the ADVOCATE as a premium, without extra charge. The subscription price is singly \$1, or in clubs at 50 cents each. Address as above,—Jackson, Tenn.

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