

Eclipses. 1863.

There will be Four Eclipses in the year 1863, viz:—two of the Sun, and two of the Moon:—

I.—A partial Eclipse of the Sun, May 17, invisible in this Island. The Southern line of simple contact of this Eclipse passes through the Straits of Bella Isle, falling a few Miles North of Point Ferrolle, Lat. 51 1.9 N., Long. 57.5.47 W. It will be visible at Labrador, from Cape Charles Northwards; also, at Iceland, Greenland, British Islands, Spain, and other Countries of Europe, &c.

It begins on the Earth generally May 17, 2h. 48m. (m.t.g.) in Long. 143.7 W., and Lat. 32.57 N.; ending on the 17th, 7h. 12m. in Long. 2.57 E., and Lat. 47.13 N.

Greatest Magnitude (Sun's diameter=1) 0.863.

II.—A total Eclipse of the Moon, June 1, visible in this Island:—

First contact with Penumbra	5h 18m	Evening	St John's, N. I.
First contact with shadow	6h 15m	do	
Beginning of Total Phase	7h 22m	do	
Middle of Eclipse	7h 55m	do	
End of Total Phase	8h 28m	do	
Last contact with Shadow	9h 35m	do	
Last contact with Penumbra	10h 31m	do	

At these times respectively the Moon will be in the zenith of those places whose positions are,—

Long. 45.26 E.	Lat. 21.46 S.
31.51	21.48
15.48	21.51
7.54	21.52
0. 0	21.53
16. 3 W.	21.54
29.38 W.	21.56 S.

Magnitude of Eclipse (Moon's diameter=1) 1.218. Duration, 5h 18m.

III.—An annular Eclipse of the Sun, November 11, invisible in this Island.

This Eclipse is limited to the Great Southern Ocean, Cape of Good Hope, Australia, Cape Horn, &c. Its line of central and annular Eclipse runs within ten degrees of the South Pole. At the Cape of Good Hope it will be a partial Eclipse, the greatest phase being about one-fourth of the Sun's disc.

IV.—A partial Eclipse of the Moon, November 25, visible in this Island:—

First contact with Penumbra	2h 32m	Morning	St John's, N. I.
First contact with Shadow	3h 44m	do	
Middle of Eclipse	5h 25m	do	
Last contact with Shadow	7h 5m	do	
Last contact with Penumbra	8h 17m	do	

At these times respectively the Moon will be in the zenith of those places whose positions are,—

Long. 95.35	Lat. 20.13
113. 0	20.17
137.11	20.23
151.28	21.23
173.45	23.32

Magnitude of the Eclipse (Moon's diameter=1) 0.950. Duration 5h 45m.