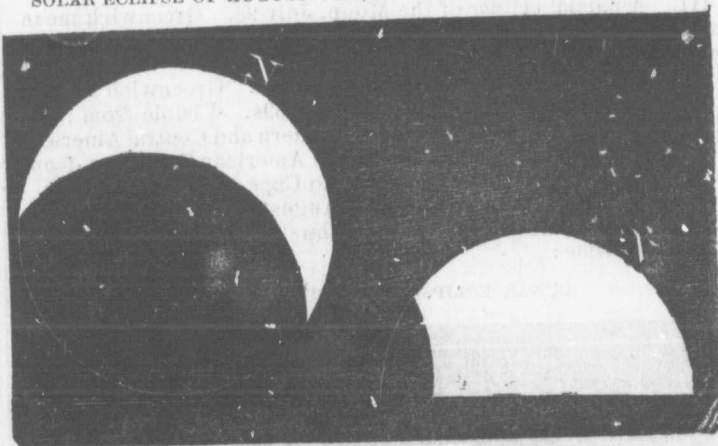


The diagram represents the appearance for direct vision—the earth's shadow being supposed stationary; the moon moving past it from West towards East.

The Solar eclipse of August 7th will be seen as a partial eclipse at Charlottetown; the disc of the moon reaching that of the sun, about the middle of the SW. quadrant at 46 minutes past 5, p. m. The time of greatest obscuration 6h. 36m., when .73 of the sun's diameter will be covered. The appearance of the eclipse at sunset is given, but owing to refraction it is likely that the eclipse will be more nearly ended at apparent sunset than is here represented.

SOLAR ECLIPSE OF AUGUST 7th, AS SEEN AT CHARLOTTETOWN.



Phase of the greatest obscuration, 6h. 36m.
Phase at true setting of Sun's centre, 7h. 17m.

THE ZODIACAL LIGHT will be an interesting object in the evenings of March. This is the name given by Cassini to a faintly luminous cone, visible soon after sunset, on the fading of twilight, pointing in the direction and sometimes extending to the Pleiades from the quarter in which the sun sets, nearly along the ecliptic; the breadth at the base is from 20° to 30° , its height, occasionally 50° . It was at one time supposed to be a projection of the solar atmosphere, but Laplace has proved that that could not extend to such a distance as the Zodiacal light has been observed to pass. Some have also imagined it a nebulous appendage of the earth itself, something of the nature of Saturn's ring, only becoming visible when the sun crosses its plane.

It will be most favourably observed during the early part of March, till about the 15th, before it becomes obscured by the increasing moon light. In the Spring of 1868 it could not be well discerned, owing to the refulgence of Venus in its immediate neighbourhood. The Zodiacal Light may also be seen about the time of the Autumnal Equinox, a little before sunrise.

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