

ECLIPSES.

There will be four Eclipses this year—two of the Sun, and two of the Moon.

I. January 22. An Annular Eclipse of the Sun, invisible in North America, but may be seen at Cape Horn and in the South Pacific Ocean.

This Eclipse begins Jan. 22, 5h. 40m. A. }
Ends Jan. 22, 10h. 45m. A. } Mean time at Halifax.

II. February 6. A partial Eclipse of the Moon, visible in all parts of North America :

	H.	M.	
First contact with the Penumbra....	7	46	A.
First contact with the shadow	8	47	A.
Middle of the Eclipse.....	10	14	A.
Moon leaves the shadow.....	11	41	A.
Moon leaves the Penumbra, 7th.....	0	43	M.

} Mean time at
Halifax.

Magnitude of the Eclipse (Moon's diameter = 1)0,809.

III. July 18. A total Eclipse of the Sun, visible (as a partial one) at Halifax :

	H.	M.	
Begins on the Earth generally.....	7	39	M.
Central Eclipse begins generally....	8	43	M.
Central Eclipse ends generally.....	11	39	M.
Ends on the Earth generally.....	0	38	A.

} Mean time at
Halifax.

This Eclipse will be central and total in Oregon, northern part of British America, Spain, and the Barbary States. It will be partial in all North America, most of Europe, and part of Africa. More than half of the Sun's disc will be obscured at Halifax.

IV. August 1. A partial eclipse of the Moon, invisible at Halifax and all parts of British America :

	H.	M.	
First contact with the Penumbra....	10	29	M.
First contact with the shadow.....	11	51	M.
Middle of the Eclipse	1	10	A.
Last contact with the shadow	2	26	A.
Last contact with the Penumbra....	3	51	A.

} Mean time at
Halifax.

This Eclipse will be visible in China.

Magnitude of the Eclipse (Moon's diameter = 1)0.443.

Eclipses take place every half year, and at each period there may be one, two, or three ; if only one, it must be an eclipse of the Sun; if two, there will be one of each luminary; and if three, there will be two of the Sun, with one of the Moon between them. Eclipses of the Sun are caused by the interposition of the body of the Moon between our eyes and the Sun ; and eclipses of the Moon by a real deprivation of light from the Moon occasioned by the shadow of the earth.