

ECLIPSES DURING THE YEAR 1862.

During this year there will be five Eclipses, three of the Sun and two of the Moon.

- I.—On the 11th of June there will be a *Total Eclipse* of the Moon. The eclipse will begin at Montreal 48 minutes past 11, and will end 6 minutes past 3 on the morning of the 12th. At Toronto it will begin at 25 minutes past 11, and will end at 42 minutes past 2 on the morning of the 12th. The total eclipse appears 1 hour and 7 minutes after the beginning, and lasts a few minutes over an hour.
- II.—On the 27th of June there will be a partial eclipse of the Sun. Not visible on this Continent.
- III.—On the 21st of November there will be an eclipse of the Sun, only partial and not visible in America.
- IV.—On the 6th of December there will be a *Total Eclipse* of the Moon, visible as follows: begins at Montreal 51 minutes past midnight, and ends 41 minutes past 4; begins at Toronto 28 minutes past midnight, and ends 17 minutes past 4. This eclipse becomes total 1 hour and 9 min. after the beginning, and continues 1 hour and 32 minutes.
- V.—On the 20th of December there will be an eclipse of the Sun, only partial, and invisible on the American Continent.

DURATION OF THE SEASONS, &c.

	D.	H.	M.	
Vernal Equinox begins.....	March	20	3	37 Evening.
Summer Solstice	June	21	0	12 Evening.
Autumnal Equinox	Sept.	23	2	20 Morning.
Winter Solstice	Dec.	21	8	12 Evening.
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Sun in Winter Signs, ...	89	1	10	
Sun in Spring Signs, ...	92	20	35	
Sun in Summer Signs, ...	93	14	8	
Sun in Autumnal Signs, ...	89	17	52	
Tropical Year,	365	5	45	
Sun North of Equator, ..	186	10	43	
Sun South of Equator, ..	178	19	2	
Difference,	7	15	42	

APPEARANCE OF THE PLANETS, 1862.

Until February 25th Venus will be the Evening Star, and then Morning Star until 10th Dec. Until October 5th Mars will be Morning Star. Until March 13th Jupiter will be Morning Star, then until Oct. 1st Evening Star. Until March 9th Saturn will be Morning Star, then until Sept. 18th Evening Star, then again Morning Star. Mercury about Feb. 17th, June 3rd, and Sept. 30th, will be visible in the West soon after sunset, and in the East before sunrise about March 29th, July 29th, and Nov. 15th.