

# ECLIPSES DURING THE YEAR 1865.

- I. On the 10th of April there will be a partial eclipse of the Moon. At Quebec it begins at eleven in the evening and ends at 46 minutes past midnight. At Toronto it begins at 28 minutes past ten, and ends 14 minutes past midnight.
- II. On the 25th of April there will be a total eclipse of the Sun, visible in South America and Africa, but not visible in any part of North America.
- III. On the 4th of October, there will be a partial eclipse of the Moon, in the evening, visible. The beginning occurs before the Moon rises. At Quebec the middle of the eclipse occurs at 5.55, and ends there at 6.56. At Toronto it ends 6.24.
- IV. On the 19th of October, there will be an eclipse of the Sun, visible as a partial eclipse, but also as annular in some parts of North America. At Montreal it begins at 8.57 morning, and ends at seven minutes past noon. At Toronto it begins at 8.29, and ends 11.36 in the morning. The ring-like appearance not seen in Canada.

## DURATION OF THE SEASONS, &c.

	D.	H.	M.		D.	H.	M.
Sun in Winter signs..	89	1	9	Tropical year.....	365	5	44
Sun in Spring signs .	92	20	35	Sun North of Equator	186	10	48
Sun in Summer signs.	93	14	13	Sun South of Equator	178	18	56
Sun in Autumnal signs	89	17	47	Difference.....	7	15	52

## EQUINOXES AND SOLSTICES.

	D.	H.	M.
Vernal Equinox begins.....	March 20	8	58 morning
Summer Solstice " .....	June 21	5	38 "
Autumnal Equinox " .....	Sept'er 22	7	51 evening
Winter Solstice " .....	Dec'br 21	1	41 "

## APPEARANCES OF THE PLANETS, 1865.

Until March the 18th Jupiter will be morning star, then evening star until December 31st. Jupiter forms no conjunctions this year with Venus, Mars, or Saturn. Mars will be an evening star until November 11, then morning star the rest of the year. Until January 19th, Saturn will be a morning star, then evening star until October 26th, then morning star the remainder of the year. Venus, as an evening star, will be brilliant 1st April, and as a morning star 13th of June.

NOTE.—There are fifty-three Sundays in the year 1865.