

V. Total Eclipse of the Moon, visible throughout British North America, September 12:—

PLACES.	Eclipse Begins.	Mid ^l 's of Eclipse.	Eclipse Ends.
	Sept. 12.	Sept. 13.	Sept. 13.
	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>
Toronto	11 13 9 P.M.	1 1 6 A.M.	4 49 3 A.M.
Kingston.....	11 3 1	0 50 8	4 38 5
Montreal.....	10 50 8	0 43 5	4 26 5
Quebec	10 41 6	0 29 3	4 17 0
Fredericton	10 23 5	0 11 2	3 58 9
Halifax, N.S.	10 10 9	11 58 6 P.M.	3 46 3
St. John's, Newfoundland	9 27 3	11 15 0	3 2 7

Mean time of the respective places.

VI. A partial Eclipse of the Sun, September 26, 1848, invisible in British North America. This Eclipse is confined to the north of Europe and Siberia.

VII. A Transit of Mercury, November 9. The Ingress will be visible from the greater portions of Europe and Asia, and the whole of Africa and South America. The Egress from the western extremity of Europe, the greater part of Africa and North America, and the whole of South America. The following will be the times of Egress at the respective places named:—

PLACES.	EGRESS.
	<i>h. m. s.</i>
Toronto	11 10 49 A.M.
Kingston.....	11 20 19
Montreal	11 32 37
Quebec.....	11 41 53
Fredericton	11 59 55
Halifax	12 12 26 P.M.
St. John's Newfoundland.....	12 55 52

TABLE

SHewing the Illuminated Portion of the Discs of Venus and Mars.

The numbers given in this table represent the sizes of the illuminated portion of the Discs—the apparent diameters of the planets being considered at unity.

1848.	Venus.	Mars.	1848.	Venus.	Mars.
January15..	0.647	0.890	July15..	0.999	0.975
February.....14..	0.750	0.891	August15..	0.994	0.989
March15..	0.831	0.901	September.....15..	0.967	0.997
April15..	0.898	0.919	October15..	0.926	1.000
May15..	0.949	0.939	November.....15..	0.869	.997
June15..	0.984	0.959	December15..	0.800	.989.

SATURN'S RING.

Saturn's Ring will not be visible from the 22nd of April to the 3rd of September: it ceases to be visible again on the 12th of September, and continues invisible for the rest of the year.

BEGINNING AND LENGTH OF THE SEASONS.

	<i>d. h. m.</i>	
Sun enters Capricorn ♑ (Winter begins), 1847, December 21 16 48		Mean Time of Toronto.
Sun enters Aries ♈ (Spring "), 1848, March 19 18 2		
Sun enters Cancer ♋ (Summer "), 1848, June 20 14 58		
Sun enters Libra ♎ (Autumn "), 1848, September 22 5 2		
Sun enters Capricorn ♑ (Winter "), 1848, December 20 22 43		