

PHASE.	Halifax.	Fred- erickton.	Que- bec.	Mont- real.	King- ston.	To- ronto.	Lon- don.	Port Garry.	Victo- ria.
First contact with Penumbra	H. M. 16 18	H. M. 16 3	H. M. 15 43	H. M. 15 33	H. M. 15 21	H. M. 15 9	H. M. 13 1	H. M. 13 58	H. M. 12 15
First contact with shadow					16 24	16 12	16 4	15 1	13 18
Beginning of total Phase								16 6	14 24
Middle of Eclipse ..									15 8
End of total Phase ..									15 53

Magnitude of Eclipse (Moon's diameter = 1)
1.428.

I. First contact with shadow occurs at 124° from the North point of Moon's limb towards the East; and the last contact 82° towards the West; in each case for direct image.

II. A partial Eclipse of the Sun, May 23, 1873, visible in the Eastern part of Canada on the morning of May 26 (civil time.)

The Eclipse begins on the earth generally May 23, at 19h. 3m. Greenwich time, in longitude 20° 57' W. of Greenwich, and latitude 23° 4' N.

The greatest Eclipse is at 21h. 8.8m. in long. 99° 46' W., and latitude 63° 54' N.

Magnitude 0.599; the Sun's diameter being unity.

The Eclipse ends generally May 23, 23h. 14.5m. in longitude 131° 13' E., and latitude 52° 57' N.

The line on which the Eclipse ends at sunrise crosses the St. Lawrence a little above Montreal.

At HALIFAX the Sun rises partially eclipsed.

Magnitude at sunrise 0.59.

Position 34° from North point of Sun's disc towards the East.

At FREDERICKTON the Sun rises partially eclipsed.

Magnitude at sunrise 0.56.

Position 40° from North point of Sun's disc towards the East.

At QUEBEC the sun rises partially eclipsed.

Magnitude at sunrise 0.30.

Position 51° from North point of Sun's disc, towards the East.

At MONTREAL, a very small portion of the Sun is eclipsed at rising.

Magnitude at sunrise 0.06.

Position 58° from North point of Sun's disc, towards the East.

At TORONTO the Eclipse is not visible.

III. A total Eclipse of the Moon, Nov. 4, which occurs after the Moon has set at most parts of the Dominion.

At Victoria the first contact with the Penumbra and with the shadow occur just before the Moon sets in the morning of November 4.

IV. A partial Eclipse of the Sun Nov. 10, 1873 invisible in Canada.

EUROPEAN SOVEREIGNS.

DATES OF BIRTH AND ACCESSION.

		Born.	Accession.
Austria	Francis Joseph, Emperor	18 Aug., 1830	2 Dec., 1848
Baden	Friedrich W. L., Grand Duke	9 Sept., 1826	6 Sept., 1856
Bavaria	Louis II., King	25 Aug., 1845	10 Mar., 1884
Belgium	Leopold II., King	9 April, 1835	10 Dec., 1865
Brazil (South America) ..	Pedro II., Emperor of	2 Dec., 1825	7 April, 1891
Denmark	Christian IX., King	8 April, 1818	15 Nov., 1888
England	Victoria, Queen	24 May, 1819	29 June, 1837
France	L. A. Thiers, President	16 April, 1797	31 Aug., 1871
Greece	George I., King of the Greeks	21 Dec., 1845	6 June, 1838
Hesse Darmstadt	Leopold II., Grand Duke	9 June, 1806	16 June, 1818
Holland	William III., King	19 Feb., 1817	17 Mar., 1849
Italy	Victor Emmanuel II., King	18 Mar., 1830	23 Mar., 1849
Mecklenburg Schwerin ..	Frederic Francis, Grand Duke	28 Feb., 1823	7 Mar., 1842
Mecklenburg Strelitz ..	Fred. Wm. Charles, Grand Duke ..	17 Oct., 1819	6 Sept., 1889
Oldenburg	Nicolas, Grand Duke	8 July, 1827	27 Feb., 1853
Portugal	Don Louis I., King	31 Oct., 1878	11 Nov., 1841
Prussia	William I., Emperor of Germany ..	22 Mar., 1797	2 Jan., 1861
Roman Church	Pius IX., Pope	13 May, 1793	16 June, 1846
Russia	Alexander II., Emperor	29 April, 1818	2 Mar., 1855
Saxe Coburg and Gotha ..	Ernest II., Augustus Charles, Duke ..	21 June, 1818	29 Jan., 1844
Saxe Meiningen	George, Duke	2 April, 1826	20 Sept., 1868
Saxe Weimar	Charles Alexander, Grand Duke	24 June, 1818	8 July, 1858
Saxony	John I., King	12 Dec., 1801	9 Aug., 1854
Spain	Amadeus, King	30 May, 1845	Nov., 1870
Sweden and Norway	Charles XV., Louis Eugene, King ..	3 Mar., 1823	7 July, 1859
Turkey	Abdul Aziz Khan, Sultan	9 Feb., 1820	25 June, 1888
United States (America) ..	Ulysses S. Grant, President	27 April, 1822	4 Mar., 1869
Wurtemberg	Charles Frederick Alexander, King ..	6 Mar., 1823	25 June, 1861