

III. Annular Eclipse of the Sun, October 9-10, 1874, invisible in Canada.

This Eclipse as a partial one is visible throughout Europe, excepting the S. W. half of Spain, and also throughout the greater part of Asia and in part of Africa. It is seen as a central eclipse from the centre of Siberia.

IV. A total eclipse of the Moon, Oct. 24, 1874, visible in Canada.

Magnitude of the Eclipse 1.049 (the Moon's diameter=1.)

The first contact with the shadow occurs 90° from the Northern point of the Moon towards the East, and the last contact 142° towards the West.

The following table shews the local astronomical times at which the several phases occur at certain places in Canada:—

PHASES.	Halt-fax.	Fred-e-ri-cton.	Que-bec.	Mon-treal.	Kings-ton.	To-ron-to.	Lon-don.	Fort Garry.	Vic-toria.
	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
First contact with Penumbra.....	12 29	12 19	11 59	11 49	11 37	11 26	11 18	10 16	8 32
First contact with shadow.....	18 27	13 17	12 57	12 47	12 35	12 24	12 16	11 14	9 30
Beginning of total Eclipse.....	14 45	14 35	14 15	14 5	13 54	13 42	13 35	12 32	10 48
Middle.....	15 2	14 52	14 31	14 22	14 10	13 59	13 51	12 48	11 4
End of total eclipse.....	15 18	15 8	14 48	14 38	14 26	14 15	14 7	13 4	11 20
Last contact with shadow.....	16 36	16 26	16 6	15 56	15 45	15 33	15 26	14 23	12 39
Last contact with Penumbra.....	17 34	17 24	17 4	16 54	16 43	16 31	16 24	15 21	13 37

The transit of Venus over the Sun's disc takes place December 8, 1874, and is invisible in Canada.

RANK OF PRINCIPAL STATES OF THE WORLD.

According to Population.

States.	No. of Inhabitants.	States.	No. of Inhabitants.
1. Chinese Empire.....	399,693,000	15. Sweden and Norway.....	5,905,542
2. British Empire.....	238,582,155	16. Belgium.....	5,087,105
3. Russian Empire.....	82,172,022	17. Persia.....	4,400,000
4. German Empire.....	41,053,139	18. Portugal.....	3,995,152
5. United States.....	38,553,371	19. Netherlands.....	3,915,856
6. France.....	36,102,821	20. Peru.....	3,199,000
7. Austria-Hungary.....	35,904,435	21. Colombia.....	2,794,473
8. Ottoman Empire.....	35,350,000	22. Switzerland.....	2,690,147
9. Japan.....	35,000,000	23. Venezuela.....	2,200,000
10. Italy.....	28,798,253	24. Chili.....	1,938,881
11. Spain.....	18,901,851	25. Denmark.....	1,784,741
12. Siam.....	11,800,000	26. Bolivia.....	1,742,352
13. Brazil.....	9,858,000	27. Argentine Confederation.....	1,738,922
14. Mexico.....	9,176,082	28. Greece.....	1,457,694

RANK OF THE PRINCIPAL STATES OF THE WORLD.

According to Territorial Extent.

States.	Area Eng. sq. miles.	States.	Area Eng. sq. miles.
1. Russian Empire.....	7,888,330	15. Chili.....	280,977
2. British Empire.....	7,762,758	16. Austria-Hungary.....	226,406
3. United States.....	3,608,844	17. German Empire.....	212,091
4. Brazil.....	3,100,104	18. France.....	201,900
5. Ottoman Empire.....	1,812,048	19. Sweden and Norway.....	188,771
6. Chinese Empire.....	1,297,999	20. Spain.....	182,758
7. Mexico.....	1,030,442	21. Japan.....	156,604
8. Persia.....	648,000	22. Italy.....	112,677
9. Argentine Confederation.....	515,700	23. Portugal.....	86,510
10. Peru.....	502,780	24. Greece.....	19,941
11. Bolivia.....	473,500	25. Switzerland.....	19,641
12. Colombia.....	432,400	26. Denmark.....	15,238
13. Venezuela.....	368,235	27. Netherlands.....	18,464
14. Siam.....	250,000	28. Belgium.....	11,287