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1874

THE NEWFOUNDLAND ALMANAC.

Eclipses, 1874.

In this year there will be *Two Eclipses* of the Sun, and *Two* of the Moon, viz:—

I.—A *Total Eclipse* of the Sun, April 15-16, 1874, invisible at Greenwich.

Begins on the Earth generally, April 15, 23h. 48m. 2s., Mean Time at Greenwich, in Long. 79°.10' W. of Greenwich, and Lat. 38° 32' S.

Ends on the Earth generally, April 16, 4h. 13m.; in Long. 25°. 32' E. of Greenwich, and Lat. 60°. 11' S.

II.—A *Partial Eclipse* of the Moon, May 1, 1874, invisible at Greenwich.

The first contact with the Shadow occurs at 81° from the Northernmost point of the Moon's limb towards the East. The last contact at 23°. towards the West; in each case for a *direct* image.

III.—An *Annular Eclipse* of the Sun, October 9-10, 1874, visible (as a *Partial Eclipse*) at Greenwich.

Begins on the Earth generally, October 9, 20h. 42m. 3s., Mean Time at Greenwich, in Long. 29°. 35' W., and Lat. 60°. 29' N.

Ends on the Earth generally, October 10, 1h. 33m. 3s., in Long. 60°. 34' E. of Greenwich, and Lat. 10°. 47' N.

IV.—A *Total Eclipse* of the Moon, October 24, 1874, partly visible as a *Partial Eclipse* at Greenwich.

The first contact with the Shadow occurs at 90° from the Northernmost point of the Moon's limb towards the East. The last contact at 112°. towards the West; in each case for *direct* image. At Greenwich, the Moon will set partially eclipsed

The Eclipses of Jupiter's Satellites (given in the Greenwich Almanac to the nearest tenth of one second of time) afford the easiest means of knowing the Greenwich time and thence to determine the longitude of whatever place on the globe, the observer may be situated. No calculation is required, but they cannot be observed at sea, the motion of the Ship rendering it impossible to secure that steadiness of the instruments necessary to observe them.

Planetary Positions.

There will be a *Transit of Venus* over the Sun's disc, on December 8, 1874, invisible at Greenwich.

For *Direct image*,
Angle from North Pole, of { first external contact 30°. towards the E.
first internal contact 44°. towards the E.
last internal contact 14°. towards the W.
last external contact 20°. towards the W.