

## ECLIPSES IN THE YEAR 1853.

There will be two Eclipses of the Sun, and one of the Moon, this year.

1. An Eclipse of the Sun on Monday, 6th June, in the afternoon—invisible in New Brunswick. This Eclipse will be visible in the Pacific Ocean, California, part of the Southern States, and nearly the whole of South America.

2. A partial Eclipse of the Moon visible in New Brunswick.

	H.	M.	
First contact with the Penumbra, June 20, at	11	28 a.	
“ “ Shadow, “ 21, at	0	49m.	} Mean time at St. John.
Middle of the Eclipse, “ 21, at	1	37m.	
Last contact with the Shadow, “ 21, at	2	25m.	
“ “ Penumbra, “ 21, at	3	46m.	

Magnitude of the Eclipse, (Moon's diameter, = 1,)  $0.204 = 2.45$  digits on the Northern Limb. The first contact with the Shadow occurs at  $33^\circ$  from the Northernmost point of the Moon's Limb towards the East. The last contact at  $21^\circ$  towards the West.

3. A total Eclipse of the Sun on the 30th November—invisible in New Brunswick. A small Eclipse may be seen on the Sun's Southern Limb along the Peninsula and Gulf of California, and the Isthmus of Darien. It will be visible in all parts of South America, as far as about  $46^\circ$  of South latitude.

## PHENOMENA OF THE PLANETS FOR 1853.

Jan. 10, ☿'s gr. elong.; 12, ♃ stat., ♃ stat.; 19, ☾ enters ♎; 24, ☾ ☿; 26, ☾ ☿; 31, ☾ ☿. Feb. 18, ☾ enters ♏; 26, sup. ☾ ☿. March 13, ☾ ☿; 23, ☿'s gr. elong.; 31, ☿ stat. April 10, inf. ☾ ☿; 24 stat.; 19, ☾ enters ♏; 23, ☿ stat.; 28, ☾ ☿. May 8, ☿'s gr. elong.; 11, ☾ ☿; 13, sup. ☾ ☿; 20, ☾ enters ♏. June 6, ☾ eclipsed; 10, ☾ ☿; 13, sup. ☾ ☿; 21, ☾ eclipsed. July 3, ☾ in apogee; 21, ☿'s gr. elong.; 22, ☾ enters ♏. Aug. 3, ☿ stat.; 4, ☾ ☿; 11, 24 stat.; 17, inf. ☾ ☿; 18, ☿ stat.; 23, ☾ enters ♏; 24, ☾ ☿; 26, ☿ stat. Sept. 3, ☿'s gr. elong.; 8, ☾ ☿; 13, ♃ stat.; 29, sup. ☾ ☿. October 23, ☾ enters ♏. Nov. 2, ☾ ☿; 3, ☾ ☿; 15, ☿'s gr. elong.; 20, ☾ ☿; 22, ☾ enters ♏; 24, ☿ stat.; 26, ☾ ☿. Dec. 4, inf. ☾ ☿; 14, ☿ stat.; 18, ☿'s gr. elong.; 24, ☿'s gr. elong.; 27, ☾ ☿.

*Characters.*—☾ Sun; ☾ Moon; ☿ Mercury; ♀ Venus; ⊕ Earth; ♃ Mars; ♃ Jupiter; ♃ Saturn; ♃ Herschel; ☾ Conjunction; ☐ Quadrature; ☿ Opposition; ☿ Ascending Node; ☿ Descending Node.

*Signs of the Zodiac.*—♈ Aries, head; ♉ Taurus, neck; ♊ Gemini, arms; ♋ Cancer, breast; ♌ Leo, heart; ♍ Virgo, belly; ♎ Libra, reins; ♏ Scorpio, secrets; ♐ Sagittarius, thighs; ♑ Capricornus, knees; ♒ Aquarius, legs; ♓ Pisces, feet.