

of Moon's shadow passing across the middle of South America, the Atlantic Ocean, Africa to Abyssinia.

II. An Annular Eclipse of the Sun, Greenwich mean time of conjunction, October 9th, 8h. 12m. 52.6 sec. Central line of Moon's shadow passing from China across the North Pacific Ocean to the middle of South America; only seen as a partial eclipse on the western half of North America.

### THE PLANETS.

MERCURY commences the year as a morning star with direct motion till March 26, retrograde till April 13, direct till July 24th, retrograde till August 17, direct till Nov. 16, retrograde till Dec. 6, and direct to the end of the year. At the above-named dates he will be at his greatest elongation east or west of the Sun. The most favorable time for finding this minute but bright planet will be about the 30th April in the east, just before sunrise, or in the evening, about July 9th, just after sunset.

VENUS will be direct throughout the year, commencing as a morning star. Approach the Sun till her superior conjunction, May 1st, after which she will reappear as an evening star and so continue till the end of the year. She will be occulted by the Moon September 13th, 1h. 7m. a. m.

MARS commences the year as an evening star with direct motion till his conjunction with the Sun, September 3rd, after which he will reappear as a morning star till the end of the year. He will be occulted by the moon February 21st, at 9.40 a. m. and November 6th, 1h. 44m.

JUPITER commences the year as an evening star with direct motion till September 19th, after which his motion will be retrograde till the end of the year. He will be in conjunction with the Sun, May 2nd, reappearing as a morning star. He will be in conjunction with Mars on January 26th, being then about a degree and a half to the south of that planet. He will be twice occulted by the Moon—January 23rd, 8h. 30m. 13 sec. p. m. and February 21st, 10.34 a. m.

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