

1890.]

CHAPPELLE'S ALMANAC.

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I. An annular Eclipse of the Sun, June 16th-17th, Greenwich Mean Time of Conjunction, in Right Ascension, 21h. 58m. 32.2 sec.; line of central Eclipse, passing from Cape Verde along Asia Minor to all of Caspian Sea to Calcutta.

II. A partial Eclipse of the Moon, November 25th-26th, Greenwich Mean Time of Opposition, in Right Ascension, November 26th, 1h. 1m. 3.4 sec.; a very small portion of the northern part of the Moon's limb eclipsed about $\frac{1}{800}$.

III. A total Eclipse of the Sun, Greenwich Mean Time of Conjunction, in Right Ascension, December 11th, 15h. 14m. 57.8 sec.; line of central Eclipse passing across the Indian Ocean South of Australia and New Zealand, not near any inhabited land.

PLANETS.

MERCURY.—Mercury will be at his greatest angular distance from the Sun—to the east of the Sun as an Evening Star, to the west as a Morning Star—as follows: on January 13th, $18^{\circ} 51'$ E.; February 23rd, $26^{\circ} 50'$ W.; May 6th, $21^{\circ} 9'$ E.; June 23rd, $22^{\circ} 6'$ W.; September 2nd, $26^{\circ} 59'$ E.; October 14th, $18^{\circ} 5'$ W.; December 28th, $19^{\circ} 36'$ E. Between these dates he will pass in conjunction with the Sun. Inferior, or between the Earth and Sun January 29th, May 29th, and September 26th. Superior, or beyond the Sun, April 8th, July 22nd, and November 16th.

VENUS will commence the year as a Morning Star, with direct motion rapidly approaching the Sun, coming to superior conjunction February 17th, after which she will re-appear as an Evening Star, still with direct motion, till November 13th, and retrograde till the end of the year. On the 23rd September she will be at her greatest elongation, $46^{\circ} 29'$ east of the Sun; at her greatest brilliancy October 29th, and in inferior conjunction with the Sun December 3rd.

On the 20th May there will be an occultation of Venus by

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