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1889.]

CHAPPELLE'S ALMANAC.

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IV. A partial Eclipse of the Moon, July 12th, 1889, Greenwich Mean Time of Opposition, 8h. 49m. 40.5 sec.; Eclipse ended before Moon rises at Charlottetown.

V. A total Eclipse of the Sun, December 22nd, 1889, Greenwich Mean Time of Conjunction, oh. 52m. 31.2 sec., p. m., visible partially to South America and Africa, the central line of totality passing along the north coast line of South America across Africa from $10^{\circ} 9'$ on the west coast to 5° north on the east coast.

PLANETS.

MERCURY.—Mercury will be at his greatest elongation to the east of the Sun as an Evening Star, and to the west as a Morning Star, as follows: January 30th, $18^{\circ} 20' E.$; March 12th, $27^{\circ} 35' W.$; May 24th, $22^{\circ} 44' E.$; July 12th, $20^{\circ} 37' W.$; September 20th, $26^{\circ} 12' E.$; October 31st, $18^{\circ} 36' W.$ These are the times most favorable for obtaining sight of this Planet, particularly when the Declination of Mercury is more northerly than that of the Sun, which will be the case during the first half of the year. Between the above dates he will be in conjunction with the Sun. Inferior or nearer than the Sun, on February 14th, June 18th and October 15th. Superior or beyond the Sun, April 24th, August 7th and December 7th.

VENUS.—Her apparent motion will be direct from the beginning of the year till April 9th, then retrograde till May 20th, after which direct to the end of the year. She will be an Evening Star previous to her inferior conjunction with the Sun, April 30th, re-appearing as a Morning Star till the end of the year. About March 25th she will be at her greatest brilliancy, sufficient to cast a distinct shadow.

MARS will commence the year as an Evening Star, coming to conjunction with the Sun June 17th, afterwards re-appearing as a Morning Star his motion will be direct throughout the year. In the latter part of September he will be in close companionship with Saturn and Venus, coming in conjunction with the former about 4 o'clock in the morning of the

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