prevent the deposition of dew, but the plan has not been tried.

<div align="right">[English Mechanic.</div>

Major E. H. Hills, Secretary of the Joint Permanent Eclipse Committee of the Royal Society and the Royal Astronomical Society, has received from Father Cortie, of Stonyhurst College, the head of the Government Eclipse Expedition sent out to Vavan in the Southern Pacific, to observe the total Solar Eclipse of April 28th, a cable message to the following effect:—"Thick cirrus clouds at totality, but obtained some photographs of Corona and Spectrum. Corona of type characteristic of minimum sunspot period." Mr. F. W. Dyson, the Astronomer Royal, has received the following telegram from Mr. Worthington, an English Astronomer who went out to Vavan to observe the eclipse :—" Splendid photos inner and outer Corona, one and half degrees." Mr. Clement L. Wragge witnessed the eclipse from Lifuka, Friendly Islands, where he telegraphs : " The weather was cloudless. The hydrogen flames were wonderfully distinct, and four great Coronæ were observed, extending as far as 40,000 miles from the surface of the Sun."

<div align="right">[English Mechanic.</div>

Memoranda for Observers.

Standard Time of India is adopted in these Memoranda.

<div align="center">For the month of July 1911.</div>

Sidereal time at 8 p.m.

				H.	M.	S.
July 1st	...	...	...	14	34	6
,, *8th*	...	...	...	15	1	42
,, *15th*	...	...	...	15	29	18
,, *22nd*	...	...	...	15	56	54
,, *29th*	...	...	...	16	24	29

From this table the Constellations visible during the evenings of July can be ascertained by a reference to their position as given in the Star Chart.

Phases of the Moon.

		H.	M.	
July 3rd First Quarter	...	2	50	p.m.
,, *11th* Full Moon	...	6	23	p.m.
,, *19th* Last Quarter	...	11	1	a.m.
,, *26th* New Moon	...	1	42	a.m.

Eclipse.

An eclipse of the sun, visible at Calcutta as a partial eclipse, will occur on the 22nd October 1911.

The following are the Indian standard times of its different phases.

    Begins, October 22nd, at   ... 7-1 a.m.
    Greatest phase, October 22nd, at 8-15 a.m.
    Ends October 22nd, at   ,,   ... 9-38 a.m.

    Magnitude (Sun's diameter $= 1$) $= \cdot 643$.

Angle, from vertex, of first contact is 31° towards east.
    Do.   do.   do.   of last contact is 150° towards east.

Planets.

Venus.—Is an evening star. Its position on the 15th July at 8 p.m. will be R. A. 10 h. 35 m. 52 s. Dec. 9°-1′-2″ N. The time of its setting will be 9 h. 0 m. p.m. on the 15th July.

Saturn.—The position of this planet on the 15th July at 8 p.m. will be R. A. 3 h. 5 m. 24 s. Dec. 15°-5′-23″ N. The time of its rising will be 0 h. 13 m. a.m. on the 16th July.

Mars.—The position of this planet on the 15th July at 8 p.m. will be R. A. 1 h. 54 m. 31 s. Dec. 9°-27′-29″ N. The time of its rising will be 11 h. 43 m. p.m. on the 15th July.

Jupiter.—The position of this planet on the 15th July at 8 p.m will be R. A. 14 h. 12 m. 3 s. Dec. 12°-6′-12″ S. The time of its setting will be midnight on the 15th July.

Notices of the Society.

Election of Members.

The attention of members is invited to Bye-law No. 14, regulating the election of persons who desire to join the Society. It is hoped that those who are already members will induce others to join. Forms of application can be had from the Secretary, Mr. P. N. Mukherji.