

herring, which now only reach as far as to the Kattegat, in those centuries extended into the Baltic. The bank water or deep water of the Kattegat in winter time must then have attained a higher level and entered the Baltic through Crescent. The surface-layer must have been thinner, and as a thin surface-layer is much more easily cooled in winter and heated in summer than a thicker one, it is evident that the controlling temperature influences of the ocean must have been different at least in North and North-Eastern Europe, whose climate in mediæval time must have had, on the whole, a more continental character than now. In conclusion the lecturer showed that the hypothesis, first proposed by A. W. Ljungman in 1879, that the great secular periodicity of the herring fishery of Bohusland should agree with that of the sun-spots, is by no means incompatible with the phenomena here described, since the 14th century is noted in Chinese annals as an epoch of maximum solar activity, and since the sun-spot frequency curve of Wolfer can be reconstructed by harmonic analysis, using the Moon's apsidal and nodal periods as the basis of the analysis.

Memoranda for Observers.

Standard Time of India is adopted in these Memoranda.

For the month of June 1912.

Sidereal time at 8 p.m.

			H.	M.	S.
<i>June 1st</i>	12	38 49
„ <i>8th</i>	13	6 25
„ <i>15th</i>	13	34 0
„ <i>22nd</i>	14	1 36
„ <i>29th</i>	14	29 12

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

Phases of the Moon.

			H.	M.
<i>June 8th</i>	Last Quarter	...	...	8 6 a.m.
„ <i>15th</i>	New Moon	...	...	11 54 a.m.
„ <i>22nd</i>	First Quarter	...	...	2 9 a.m.
„ <i>29th</i>	Full Moon	...	...	7 4 p.m.

Meteors.

Date.	Radiant.		Character.
	R. A.	Dec.	
May—June ...	235°	+9°	Rather slow
May—June ...	280°	+32°	Swift.

Planets.

Venus—Is a morning star. The position of this planet on the 15th of June at 8 p.m. will be R. A. 5 h. 9 m. 49 s. Dec. 22°-49'-4" N. The time of its rising will be 4 h. 30 m. a.m. on the 16th June.

Saturn.—The position of this planet on the 15th of June at 8 p.m. will be R. A. 3 h. 42 m. 56 s. Dec. 17°-44'-44" N. The time of its rising will be 3 h. 11 m. a.m. on the 16th June.

Mars.—The position of this planet on the 15th of June at 8 p.m. will be R. A. 8 h. 54 m. 44. s. Dec. 18°-48'-32" N. The time of its setting will be 9 h. 32 m. p.m.

Jupiter.—The position of this planet on the 15th of June at 8 p.m. will be R. A. 16 h. 28 m. 40 s. Dec. 21°-1'-58" N. The time of its setting will be 3 h. 55 m. a.m. on 16th June.

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.

Change of Addresses.

It is particularly requested that when members change their addresses, they will kindly notify the new address to the Secretary. The omission to do this is likely to cause the loss of the JOURNALS and other communications.

Telegraphic Address.

The address of the Society has been registered at the Telegraph Office, Calcutta. Telegrams should be addressed "Astronomy, Calcutta."