

PROMINENCES

The following table gives the mean daily areas and numbers of calcium prominences at the limb as derived from spectroheliograms obtained at Kodaikanal during 1964.

1964	(Area (square minutes))					Numbers				
	N	S	E	W	Total	N	S	E	W	Total
January-June	1.69	0.87	1.21	1.35	2.56	4.75	3.09	3.85	3.99	7.84
July-December	1.28	0.36	0.72	0.92	1.64	2.81	1.52	1.82	2.51	4.33
Whole year (weighted mean)	1.54	0.68	1.03	1.19	2.22	4.02	2.49	3.08	3.43	6.51

The figures show a slight decrease in activity from the previous year judged both by areas and numbers, the decrease in area being 14 per cent and the decrease in number being 9.6 per cent. The distribution of areas in the northern hemisphere in five degree ranges of latitude shows a peak of activity extending from 45° - 55° . In the southern hemisphere the peak of activity is in the latitude belt 45° - 50° with a secondary maximum in the zone 20° - 25° .

The mean daily areas and numbers of hydrogen absorption markings on the disc as obtained from Kodaikanal records are as follows:

1964	H-alpha dark marking area (in millionths of the Sun's visible hemisphere uncorrected for foreshortening)					Number				
	N	S	E	W	Total	N	S	E	W	Total
January-June	1760	435	1195	1000	2195	12.82	4.38	8.67	8.53	17.20
July-December	1221	171	688	704	1392	8.20	1.75	4.25	5.70	9.95
Whole year (weighted mean)	1548	331	995	884	1879	11.00	3.34	6.92	7.42	14.34

Compared to the previous year there is a decrease of activity of the absorption markings judged both by areas and numbers. The decrease in area amounted to 20.9 per cent while the decrease in numbers was 15.7 per cent. In the northern hemisphere the peak of activity is in the latitude belt 45° - 55° and in the southern hemisphere it is in the zone 10° - 15° .

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