

Prominences in 1974

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The following table gives the mean daily areas and numbers of calcium prominences at the limb derived from the spectroheliograms obtained at Kodaikanal during 1974.

1974	Area (sq. min.)					Numbers				
	N	S	E	W	Total	N	S	E	W	Total
January–June	1.69	1.44	1.38	1.75	3.14	3.6	2.9	3.2	3.3	6.5
July–December	1.26	1.34	1.38	1.22	2.60	2.5	2.4	2.6	2.3	4.9
Whole year (weighted mean)	1.52	1.39	1.38	1.54	2.91	3.1	2.7	2.9	2.9	5.8

These values when compared to the previous year show a decrease of activity by 2.3 per cent in the case of areas and 43.1 per cent in the case of numbers. The distribution of K-prominence areas and numbers in five-degree ranges of latitude shows a peak of activity in the latitude belt 40° – 45° in both the Northern and Southern Hemispheres.

The mean daily areas and numbers of hydrogen absorption markings obtained from H-alpha spectroheliograms at Kodaikanal are tabulated below.

	H-alpha absorption marking areas (in millionths of the Sun's visible <i>hemisphere uncorrected</i> for foreshortening)					Numbers				
	N	S	E	W	Total	N	S	E	W	Total
January–June	1107	1381	1329	1159	2488	9.7	13.0	11.9	10.7	22.7
July–December	864	1238	1084	1018	2102	8.6	10.8	10.1	9.2	19.3
Whole year (weighted mean)	997	1315	1218	1095	2313	9.1	12.0	11.1	10.0	21.1

These values when compared to the previous year show a decrease of activity by 30.7 per cent in the case of areas and 25.2 per cent in the case of numbers. The distribution of areas in five-degree ranges of latitude shows a peak of activity in the latitude belts 10° – 15° , 40° – 45° in the Northern Hemisphere and 10° – 25° and 40° – 45° in the Southern Hemisphere.