

Solar Bulletin

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SOLAR ACTIVITY DURING SEPTEMBER

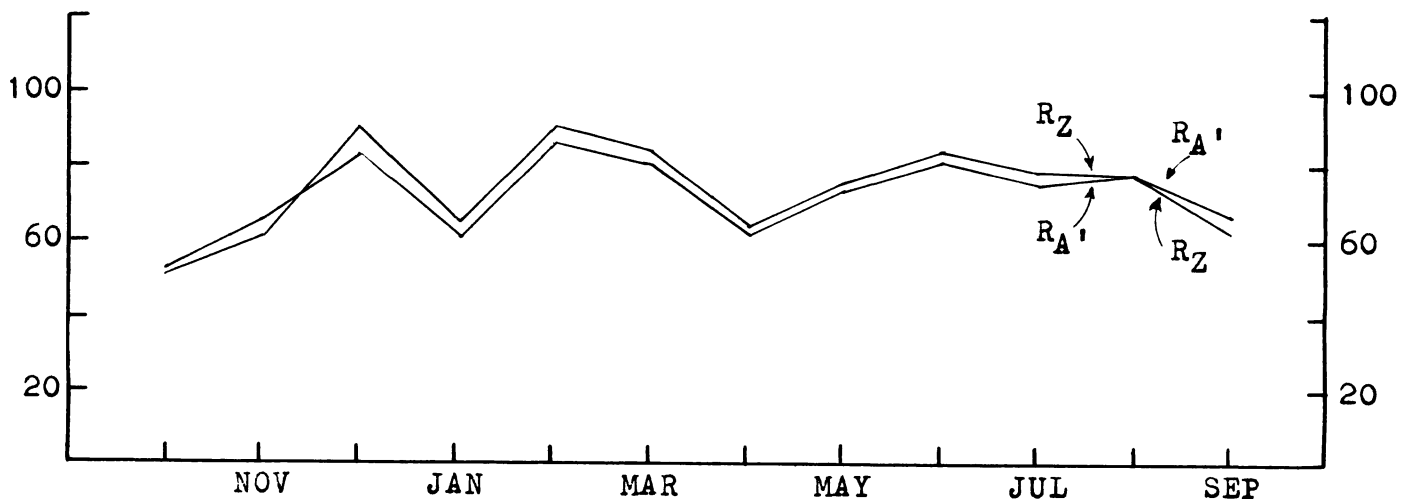
Nine ionospheric disturbances were recorded by the observers of the Solar Division during September. This was a significant reduction of activity from the previous month. In addition to the decrease in number of events, the energy level of the individual events appeared to be very much reduced, however it is probably not proper to compare events with those of the 2nd and 7th of August since these were among the most energetic recorded in recent years.

The event of the 6th September is shown on page two as recorded at Louisville, Kentucky by the SEA (Sudden Enhancement of Atmospherics) method. The events recorded on the 22nd are also reproduced as recorded by one of our newer observers Mr. Ralph V. Rickett of Worthington, Ohio. The events of the 22nd were recorded by using the SES (Sudden Enhancement of Signal) method.

The mean of the American sunspot numbers fell to 66.2 for the month of September from a mean of 73.8 for August.

An area of spottedness in the southeastern quadrant of the sun's disk was of interest since this first appeared to be two separate groups. By the time the sun's rotation brought it to the west limb, it had changed to appear as being a single group and this designation was borne out by magnetic field data.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



AMERICAN (R_A') AND ZURICH (R_Z) RELATIVE SUNSPOT NUMBERS, SEPTEMBER 1972

DAY	R _A '	R _Z	DAY	R _A '	R _Z
1	119	121	16	59	53
2	100	91	17	45	44
3	87	69	18	36	35
4	73	68	19	28	30
5	80	77	20	57	44
6	80	78	21	58	60
7	74	73	22	66	69
8	70	65	23	67	59
9	54	57	24	78	71
10	44	43	25	93	82
11	43	43	26	88	78
12	33	33	27	81	77
13	34	31	28	69	67
14	47	35	29	83	70
15	59	42	30	81	75

Monthly Means
 R_A' = 66.2
 R_Z = 61.3

SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING SEPTEMBER 1972

DAY	MAX	SEA	SES	DEF	OBSERVERS	DAY	MAX	SEA	SES	DEF	OBSERVERS
6	2140	1+	1+	5	A1,5,8,19,21,22,26,30,31,33,34,35	22	1633	1-	1-	5	A1,5,36
10	1749		1-	5	A1,18,19,21,30,31,33,35	22	1658	1+	1+	5	A1,5,8,19,21,23,26,30,31,33,34,35,36
13	1915		1	4	A1,31,35	25	2151		1-	5	A21,30,31,33,37
22	1059	1+		2	A17,*	26	0158		1+	3	A31
						26	2235		1-	5	A21,30,31,35,37

*Additional events, to above, as reported by letter by Dr. V. Barocas, Preston, U.K. are: SEPTEMBER 14-0520; 17-0637.

