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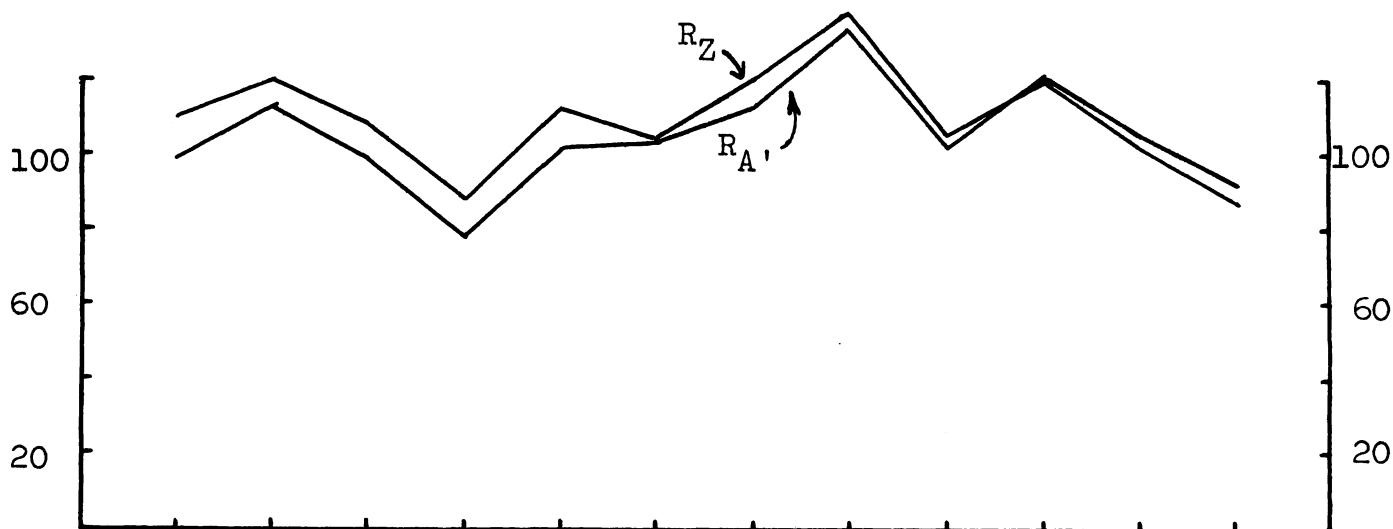
July 1969

SOLAR ACTIVITY DURING JULY

July was a month of few ionospheric disturbances caused by flares. All were of low intensity. The most widely recorded event occurred on the 5th at 1230 UT. Two strip-chart recordings made this day are reproduced on page two. The lower chart shows the event as recorded in Durban, South Africa. It can be seen as a small unimpressive increase of signal strength that would hardly be recognizable on this chart alone but can be confirmed as real by its presence (also small and hardly recognizable) on charts made in New York and Missouri. The upper chart shows the same event as a small SEA that is easily recognized although another receiver only 100 miles distant did not record it at all. All of this points up the advantage of having many widely distributed SEA stations if small low-intensity ionospheric disturbances are to be detected with certainty.

Sunspot activity was off somewhat from the June level. The monthly mean of the American sunspot numbers dropped to 92.5 from 105.5. High sunspot counts were made during the first half of the month when many sunspot groups were to be seen. The highest numbers occurred on the 3rd when many observers counted ten groups.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



AMERICAN (R_A) AND ZURICH (R_Z) RELATIVE SUNSPOT NUMBERS, JULY 1969

day	R_A	R_Z	day	R_A	R_Z
1	115	106	16	74	64
2	130	111	17	69	71
3	162	167	18	67	66
4	149	155	19	55	59
5	138	131	20	58	54
6	129	130	21	62	55
7	119	103	22	58	51
8	129	121	23	57	43
9	126	114	24	43	51
10	139	112	25	42	43
11	110	109	26	45	49
12	104	98	27	47	49
13	91	92	28	63	79
14	74	69	29	95	84
15	73	71	30	110	90
			31	133	128

July mean R_A = 92.5

July mean R_Z = 87.9

SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING JULY 1969

DAY	MAX. SEA SES DEF. OBSERVERS	DAY	MAX. SEA SES DEF. OBSERVERS
1	1630	1+	A-22,19
5	1228	1	A-22,19
		5	A-19,8,22
		5	A-22,17,1,23
		16	1815
		16	1905
		1+	A-22,19
		4	A-22,19
		5	A-22,19

