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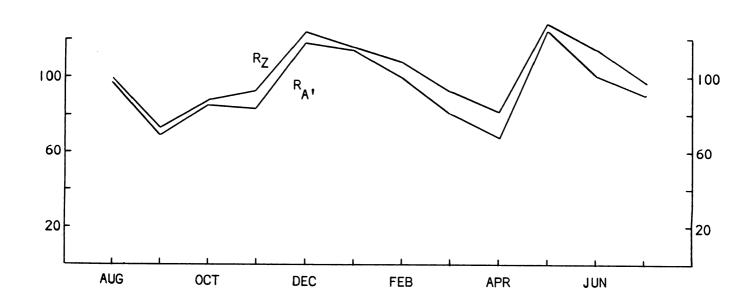
July 1968

SOLAR ACTIVITY DURING JULY

Solar activity as judged by disturbances of the ionosphere showed an increase over the level of last month. The most intense disturbance of recent months occurred on the 8th and in most cases recording apparatus was driven off scale at the time of maximum. A recording of another widely observed event of the 30th is reproduced on page two. A total of eleven separate disturbances were recorded by Solar Division observers. A complete listing of these appears on page two.

Sunspot activity declined from the level of June. The monthly mean of the American sunspot number fell to 90.2 compared to 101.8 last month. The numbers reached a remarkably low level during the first week of July but soon began to rise rapidly to reach their highest point of the month on the 12th when ten sunspot groups were visible on the suns disk.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS

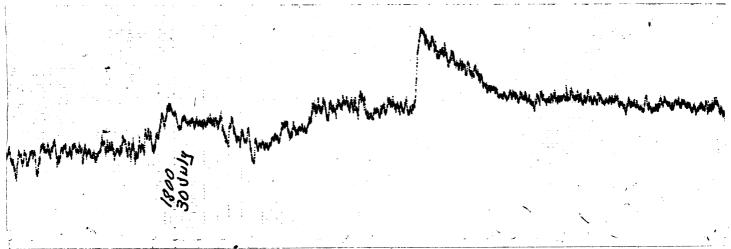


AMERICAN (RAI) AND ZURICH (RZ) RELATIVE SUNSPOT NUMBERS, JULY 1968

						
day	RA,	$\mathtt{R}_{\mathbf{Z}}$		day	$\mathtt{R}_{\mathbf{A}^{(\mathbf{r})}}$	$\mathtt{R}_{\mathbf{Z}}$
1 2 3 4 5	43 3 30 33 27 29	55 37 30 26 28		16 17 18 19 20	125 92 94 90 105	149 117 96 102 93
6 7 8 9 10	42 62 82 83 88	41 54 89 91 99		21 22 23 24 25	95 89 94 96 113	93 86 93 101 120
11 12 13 14 15	122 151 143 119 101	124 152 151 147 123		26 27 28 29 30 31	123 117 110 116 97 86	134 131 118 129 115 93
July m	ean R,	= 90.2		July	mean R	= 97.3

SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING JULY

]	DAY	MAX.	SEA	SES	DEF.	OBSERVERS	DAY	MAX.	SEA	SES	DEF.	OBSERVERS
	-	2334 2245 1738 1640 1712 1825	1 3+	1 3 1+ 3+ 2+	434355	A-21 A-21 A-1,20,21 A-20,1,22 A-1,20,21,22, A-20,21	17 27 28 30 830	2118 1219 0725 0656 2033	2 3 2 3+	2	3 1 4 2 5	A-21 A-17 A-17 A-17 A-20,21,22, 18,6



Above is shown a recording of the integrated signal strength of very-low-frequency station NPM operating on a frequency of 23.5 kHz and located in Hawaii. It was made by observer A-21 at Littleton, Colorado and shows a sudden enhancement of signal strength (SES) atarting at 2030 UT.