Solar Bulletin

Publisher:

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS — SOLAR DIVISION 540 NORTH CENTRAL AVENUE RAMSEY, NEW JERSEY, U.S.A.

Volume 27 Number 5

May 1971

SOLAR ACTIVITY DURING MAY

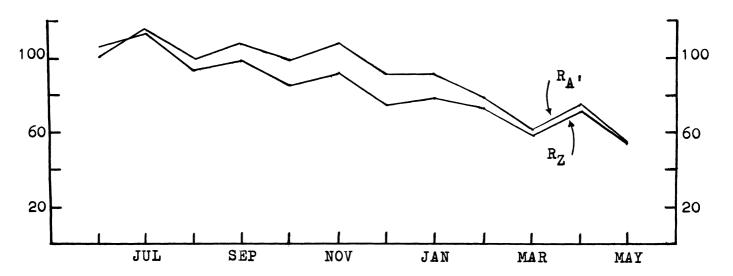
While the number of ionospheric disturbances recorded by the Solar Division observers reached a total of thirteen during May, only six of these thirteen were classed above a minor (1-) in importance.

On page two is reproduced two of the most widely recorded events. The event of the 3rd of the month is shown as recorded by A17 in the southern hemisphere and also by A27 in the northern hemisphere. The major event recorded on the 14th was recorded by Dr. Walter L. Moore (A26).

The mean of the American sunspot numbers fell to 54.6 from 74.9 last month. The lesser activity provided sunspot observers with a taste of approaching minimum conditions starting on the 23rd of May. During this brief period only A and B-type sunspot groups were present on the solar disk with none of the larger types which have dominated the scene during recent maximum. By the 23rd a prominent J-type group had passed over the west limb and another J group of the previous day had decayed to a single small spot. East of the small spot was a B-type group and to the south an A group. These three groups were all that could be seen that day.

On the 31st, a pair of sunspots encompassed in the same penumbra had the solar equator passing between them. Magnetic observations showed the two spots to be of opposite polarity with the leading spot of "R" polarity indicating the group probably belonged to the southern hemisphere.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



$_{ m R_Z}$	81 62 443 40 40	8050 54000 80500 50000	09
RA 1	007444 00744	24 20 20 20 20 20 20 20 20 20 20 20 20 20	28
DAY	51 18 20 20	22 22 22 22 22 22 22 22 22 22 22 22 22	31
	·	Means 54.6 53.8	
		Monthly RA' = RZ =	
$R_{ m Z}$	44 rv rv o - 0 si o rv	64 72 73 73 73 73	<u>0</u>
RA 1	44 447 66 66	65 65 65 67 72 87 87 77 87 77	o O
DAY	- 01M4 rD	01-800 -017-	<u>ر</u>

1971 RECORDED DURING MAY IONOSPHERIC DISTURBANCES SUDDEN

SES DEF OBSERVERS 2+ 5 A1,17,21,22,23	A 1 , 2 ,		A	r L. Moore A26
SEA 2+	1 -			ָבָּ בָּבָ
MAX 1425	1744 1510	1530	1551	•
DAY 14	4 1 18	27	29	
OBSERVERS A1,17,21,23,26,27	A1,8,17,22,27 A1,21 A21	1,17	A1,23,26	- g
り起する	ひ44	44	വ	Africa
SES 2	0		2-	S.
SEA		-	+	- d -
MA X 1417	1217 1931 2306	1317	1757	A17 Durbas
	տատ		13	A 1

A17 Durban S. Africa 3 May 1971 SEA 27 kHz
Durban ay 1971 27 kHz 27 kHz

The recording of the event on the 2rd
א מא
event recorded in Pennsylvania at about
four hours after local sunfise. Include
rise characteristics and sharp pear sign
in both. The trace made in South Allica
does show the typical last lair time dies
is almost concave. Inis is very common
for events recorded just belore rocar
sunset.

14th is sevent, 3rd rounded of the 3 this the event on of recordings of A26 rise w ģ to made typical of the rec which have a fast peak in contrast t recording The