Solar Bulletin

JUL 19 1967

Publisher:

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS — SOLAR DIVISION

540 NORTH CENTRAL AVENUE
RAMSEY, NEW JERSEY, U.S.A.

EDITOR: C. H. HOSSFIELD

Volume 23 Number 6

June 1967

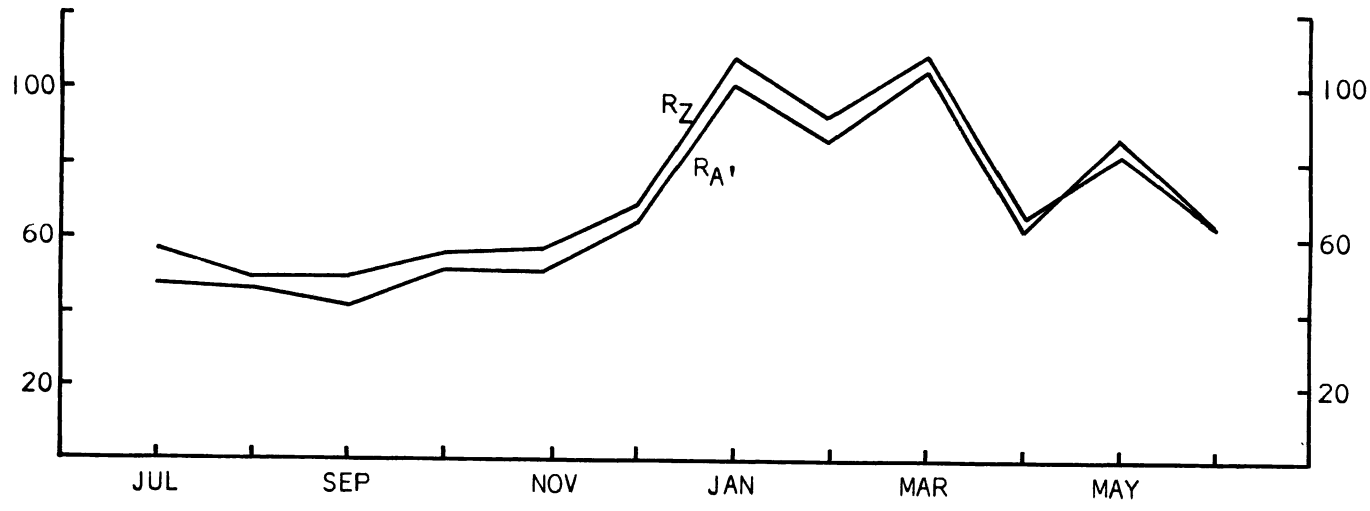
SOLAR ACTIVITY DURING JUNE

Solar activity during June fell to a much lower level than the previous month. Although there were no outstanding events, several ionospheric disturbances were recorded by the Solar Division's indirect flare patrol group. Two of these recordings are reproduced on page two.

The highest level of sunspot activity occurred at the beginning of the month and was the result of an F-type group which reached the central meridian on 3 June. Sunspot drawings showing magnetic polarities of this interesting sunspot group are included as a supplement to this issue of the Bulletin. This is actually two groups, several of the larger following spots being a separate group that was enveloped as the F-type group grew. The two were much easier to identify as separate groups as they came over the east limb. The magnetic polarity distribution of this F group was peculiar in that the middle portion was predominently positive (R) and the ends were negative (V). In spite of its unusual polarity distribution and rather large size, this group produced fewer flares than might have been expected. By limb passage on the 9th, very little was left except the large leader spot.

Sunspot activity reached its lowest level on the 12th. One small sunspot group consisting of several tiny spots was all that could be seen that day. The monthly mean of the American sunspot numbers fell to 62.3 in June. This is about equal to the lowest monthly mean of 1967 which occurred in April. The April mean was 61.9

RECENT TREND OF RELATIVE SUNSPOT NUMBERS

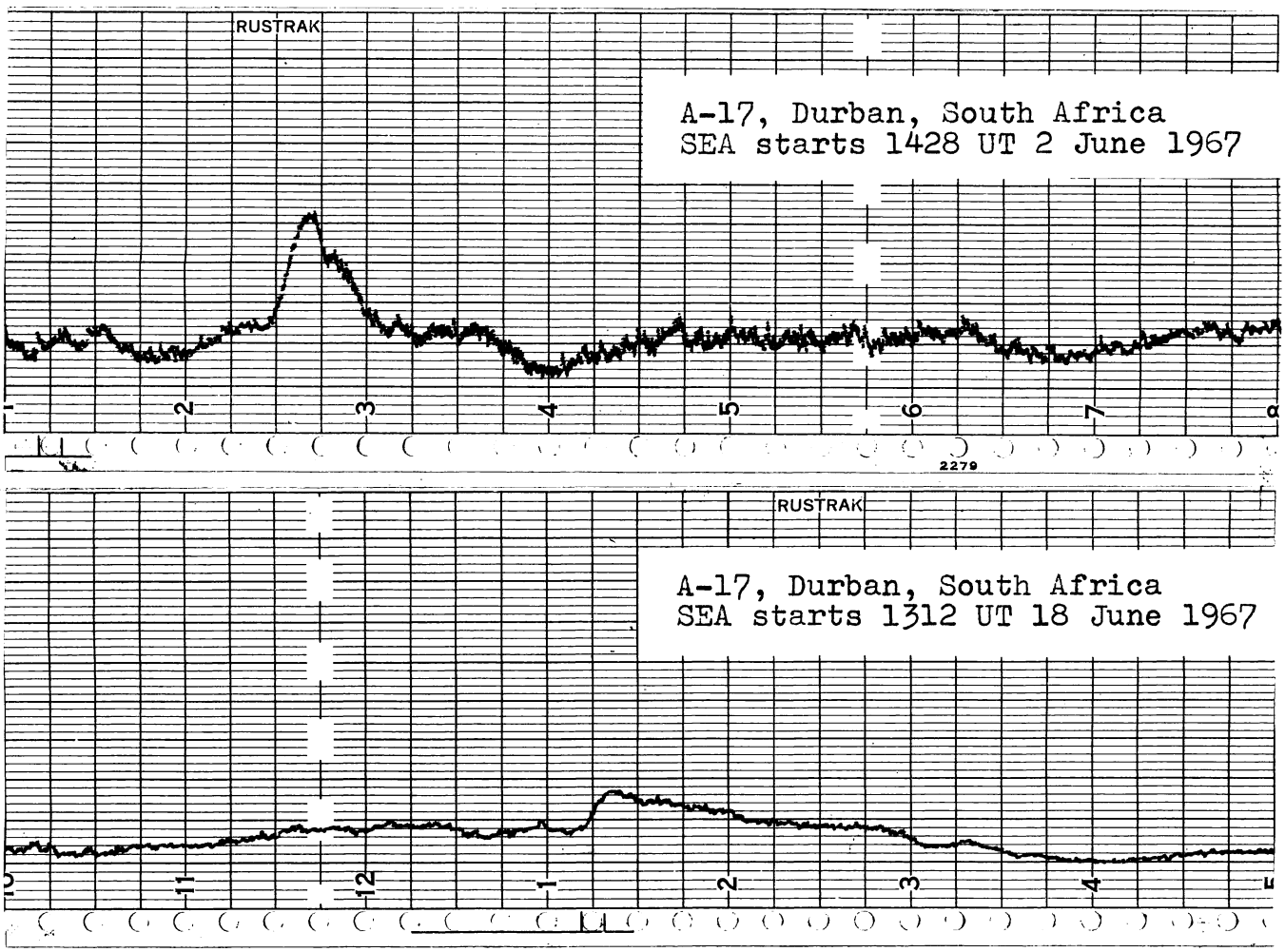


American ($R_{A'}$) and Zurich (R_Z) relative sunspot numbers, June 1967

day	$R_{A'}$	R_Z	day	$R_{A'}$	R_Z
1	145	123	16	40	38
2	119	113	17	60	57
3	98	92	18	61	60
4	95	93	19	71	65
5	86	79	20	79	79
6	69	76	21	74	61
7	53	55	22	82	83
8	37	36	23	74	80
9	20	22	24	99	92
10	17	17	25	79	92
11	20	17	26	65	79
12	12	19	27	51	52
13	19	19	28	65	80
14	31	20	29	54	59
15	29	30	30	66	89

June mean $R_{A'}$ = 62.3

June mean R_Z = 62.6



Recordings showing showing sudden enhancements of atmospheric noise (SEA) caused by solar flares. Atmospheric noise was recorded at 27 kHz.