Solar Bulletin

Publisher:

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS — SOLAR DIVISION

RAMSEY, NEW JERSEY, U.S.A.

Volume 29

Number 6

JUNE 1973

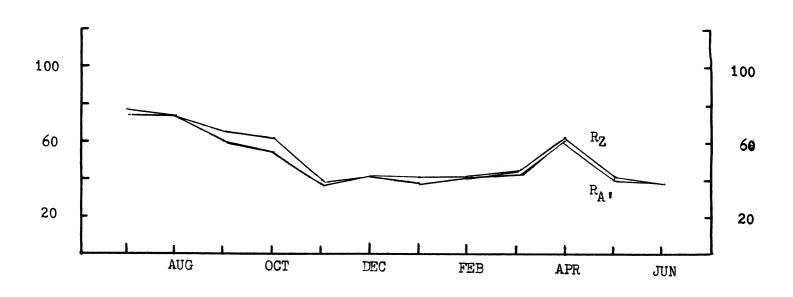
SOLAR ACTIVITY DURING JUNE

Solar Division observers recorded only eleven ionospheric disturbances during June. This compares to thirty eight events the previous two months. The disturbances of June were mostly small ones except two of medium intensity on the 28th and the 29th. Charts are reproduced on page two showing some events. These include two SEA recordings made by Paul Boltwood, A-39, of Somerset, Bermuda. Mr. Boltwood has only had his equipment operating since 24 June and sent charts to the AAVSO for the first time this month. SES charts by A-19 are also reproduced which show how even minor events stand out clearly on good clean interference free recordings. The small event reaching maximum at 1912 UT on the 29th could easily be overlooked except on a clean trace. Note how the SEA recording by A-39 also shows a hint of this small disturbance. Small events such as this one can only be determined to be real when they appear on several charts by widely separated observers using different signal sources.

Sunspot activity continued at about the same level. Two short spotless periods occurred during June, both less than a day. The first occurred late on the 2nd and the other early on the 5th.

The large spot at the northeast limb on 29 June is in the right area to be the return of a group that showed resurgence of activity as it went over the west limb on the 14th

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



AMERICAN (RA.) AND ZURICH

SUDDEN IONOSPHERIO DISTURBANCES RECORDED DURING JUNE 1973

AMERICAN	$(_{RA},)$	AND ZURIC
(R _Z) REI	ATIVE ST	INSPOT
NUMBERS	FOR JUNI	E 1973
DAY	R _A ,	$^{ m R}_{ m Z}$
1	9	8 8
3	<u>7</u>	1 6
4 5	R _A , 967 33	8 8 16 14 7
DAY 1 2 3 4 5 6 7 8 9	10	
7	29 29	16 37
8	28	34
1 0	17 29 28 27 33	16 37 34 28 35
	56	60
12	59 59	58
13 14	54 57	52 51
11 12 13 14 15	56 59 54 57 52	60 58 52 51 46
	3 8	
16 17 18 19 20	38 24 23 45 63	41 34 18 38 46
19	45	18 38
20	63	46
21	77	75
23	65 54	75 61 48 48 47
24	50	48
21 22 23 24 25	77 65 54 50 53	4 7
26	48	43
28	43	<i>9</i> 8 39
26 27 28 29 30	48 44 43 42 27	43 38 39 51 33
Means =	37.9	37.6

DAY MAX	SEA	SES	DEF	OBSERVERS
9 1820 13 1816 15 1414 16 1432 28 1846 28 1905		1- 2 1+ 1- 2	5	A-1,19,21,33,37 A-19,21,33,37 A-1,19,21,37,38 A-1,19,21,37 A-1,19,21,37,38 A-1,19,21,23,37 38,39

DAY MAX	SEA	SES	DEF	OBSERVERS
29 1518 29 1914		1 1-	5 2	A-1,19,21,37 A-19,21,38
29 1952	1	2+	5	A-1,19,21,23 37,38,39
30 1524 30 1524 30 2206		2 2 1	5 5 5	A-1,19,21,37,38 A-1,19,21,37,38 A-19,21,37

