Solar Bulletin

Publisher:

the American Association of Variable Star Observers — Solar Division

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

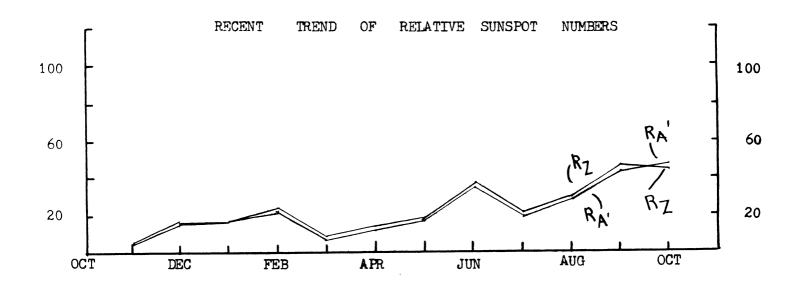
Volume 33 Number 10

OCTOBER 1977

SUNSPOT ACTIVITY FOR OCTOBER

Sunspot activity continued at the higher level of last month. The mean of the American sunspot numbers rose slightly to 45.5. There were no spotless days during October.

Thirteen ionospheric disturbances were found in charts received from nine observers this month. Six of these occurred on the sixth which was by far the most disturbed day. The other seven events were scattered throughout the rest of the month occurring singly on separate days. Charts reproduced on page two show a time-shared recording of very-low-frequency stations on 73.6, 21.4 and 17.8 KHz.



AMERICAN	(R _A •) AND	ZURICH
(R _Z) F	ELATI	ve sunspot	
NUMBERS	FOR	OCTOBER 1977	
DAY	R _A ,	$^{\mathtt{R}}\mathbf{z}$	
1 2 3 4 5 6 7 8	43 39 47 49 51	45 31 48 45 38	
6 7 8 9 10	62 63 49 52 38	47 54 49 45 36	
11 12 13 14 15	28 39 54 51 57	23 27 53 45 48	
16 17 18 19 20	56 53 49 60 61	53 50 50 46 53	
21 22 23 24 25	46 35 31 27 29	38 35 25 31 25	
26 27 28 29 30 31 M	31 34 32 47 47 49	29 40 39 39 43 <u>51</u> 41.3	

Day	Max.	SEA	SES	Def.	Observers
6	00:31	1	1	5	A31,43
6	04:38	1	1	5	A31,43
6	05:10	1	1	5	A31,43
6	08:10		1	5	A43
6	14:29		1	5	A1,31
6	19:57	1	1	5	A1,19,26,31
7	22:17		1-	5	A31,43
8	02:57	1	1	5	A43
9	16:09		1	5	A1,19,28
13	17:18	1-	1	5	A1,19,26,28,30,31
22	19:30		1-	5	A31
27	20:25		1	5	A1,19
29	20:14	1+	1	5	A31

Charts from the following observers were received and analyzed:

A-1,19,26,28,30,31,37,40,43

