

# Solar Bulletin

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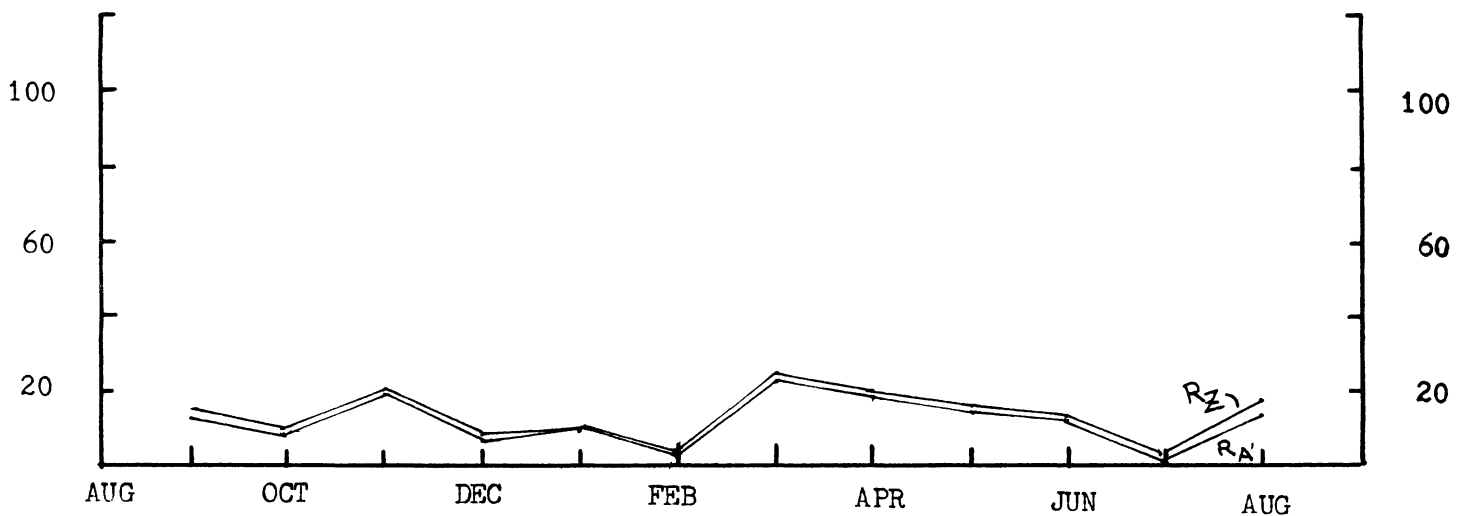
AUGUST 1976

## SUNSPOT ACTIVITY FOR AUGUST

Sunspot activity rose to well above the very low level of July. The Mean of the American sunspot numbers was 13.7. There were no spotless days during August. A short spotless period of less than a day did occur late on the twenty-seventh lasting into the early part of the twenty-eighth.

The increase in sunspot activity was accompanied by two ionospheric disturbances. Seven charts from six observers are reproduced on page-two showing how these disturbances were recorded. A multiple recording of three different frequencies, 18.6, 34.5 and 73.6 kHz by observer A-1 illustrate how the reality of disturbances is confirmed by their presence on several frequencies.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING AUGUST 1976

Day	Max.	SEA	SES	Def.	Observers
18	18:51	1	1+	5	A1,19,26,28,31, 34,37,40
22	12:07	1+		3	A42

AMERICAN ( $R_A$ ) AND ZURICH ( $R_Z$ )

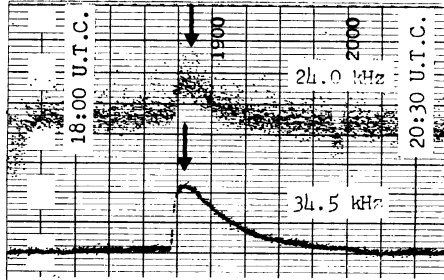
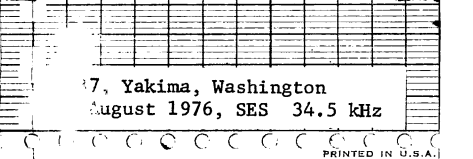
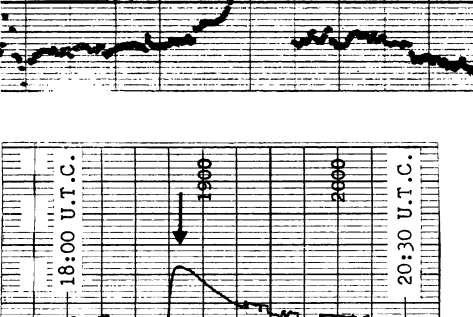
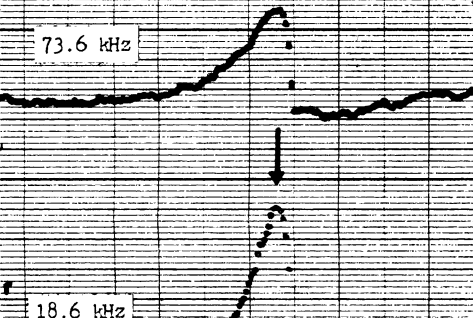
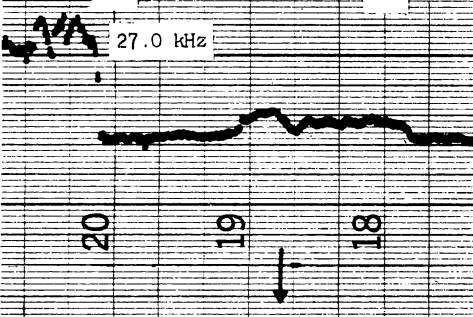
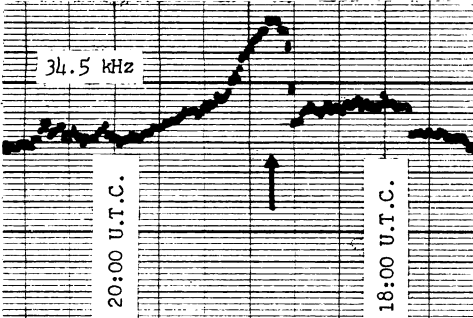
RELATIVE SUNSPOT NUMBERS FOR

AUGUST 1976

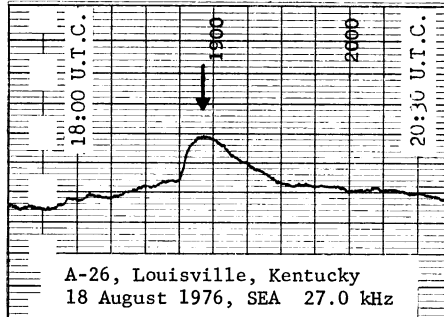
DAY	$R_A$	$R_Z$
1	7	10
2	12	18
3	13	19
4	12	14
5	14	17
6	12	15
7	14	26
8	18	30
9	18	31
10	21	24
11	22	22
12	22	29
13	19	27
14	12	16
15	5	8
16	14	15
17	19	19
18	21	23
19	25	25
20	20	19
21	14	17
22	10	8
23	10	9
24	13	17
25	10	9
26	8	14
27	3	7
28	6	8
29	9	9
30	10	10
31	11	9
Mean	13.7	16.9

Charts from the following observers were received and analyzed: A1,19,26,28,29,30,31,32,34,36,37,40,42,43

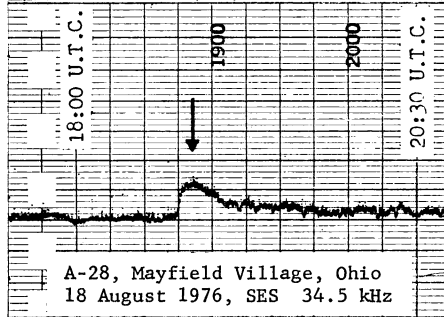
A-1, Valley Cottage, New York  
18 August 1976, SES 18.6, 34.5, 73.6 kHz



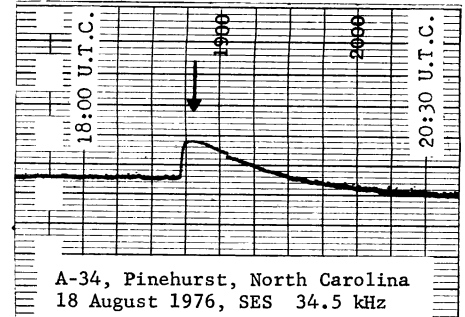
A-19, Latrobe, Pennsylvania  
18 August 1976, SES 24.0, 34.5 kHz



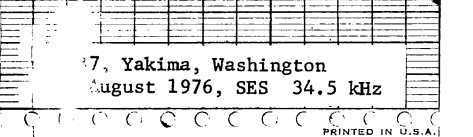
A-26, Louisville, Kentucky  
18 August 1976, SEA 27.0 kHz



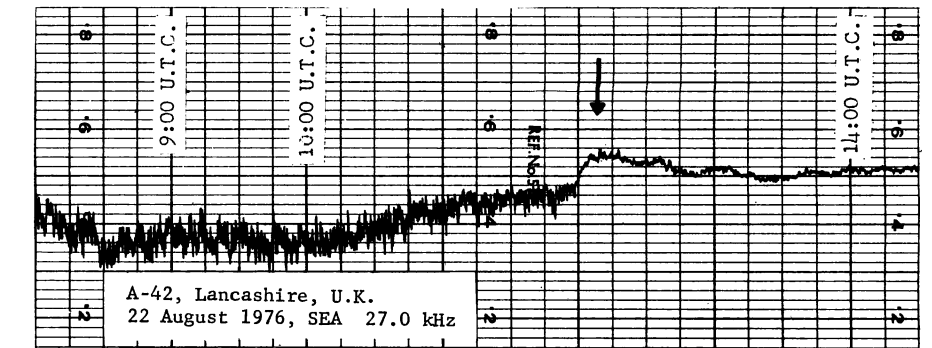
A-28, Mayfield Village, Ohio  
18 August 1976, SES 34.5 kHz



A-34, Pinehurst, North Carolina  
18 August 1976, SES 34.5 kHz



A-37, Yakima, Washington  
August 1976, SES 34.5 kHz



A-42, Lancashire, U.K.  
22 August 1976, SEA 27.0 kHz