

Solar Bulletin

NOV 1974

Publisher:

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



Volume 29 Number 11

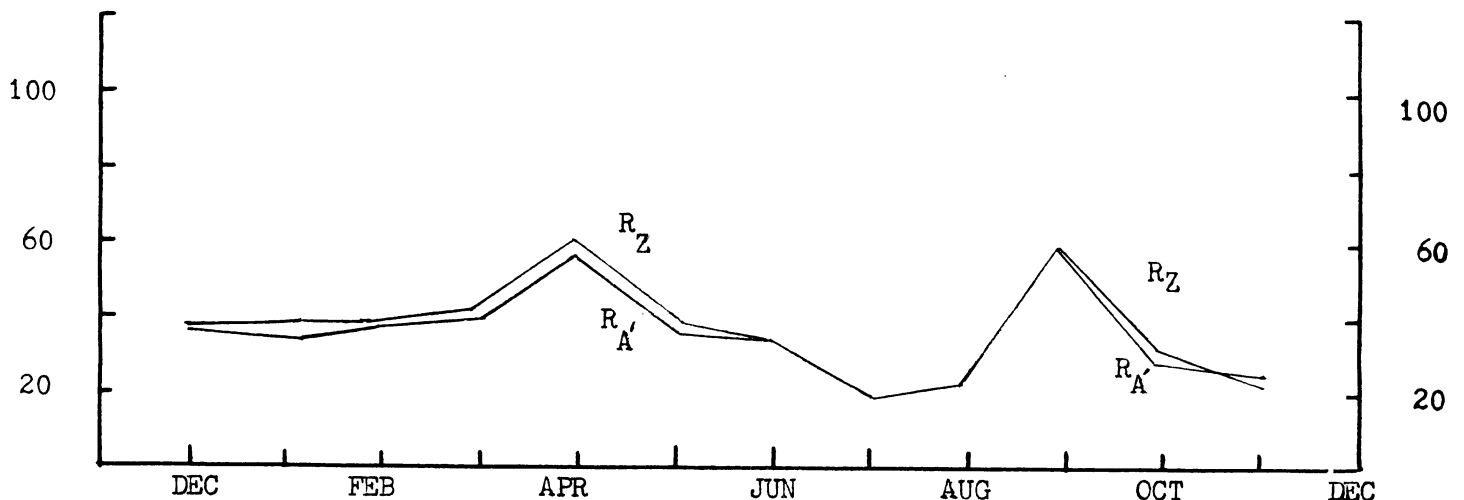
NOVEMBER

SOLAR ACTIVITY DURING NOVEMBER

TC Sunspot activity continued at a low level during November. The mean of the American sunspot numbers fell to 24.2. The first extended period of spotlessness of the current cycle occurred lasting seven days compared to previous spotless periods which had so far not exceeded two days.

Despite the low level of solar activity, AAVSO observers recorded seven ionospheric disturbances during November. An interesting one is shown at the bottom of page two where an event is recorded after local sunset by recording the signal strength of very-low-frequency station NWC on the west coast of Australia. Just above it is a chart showing the event of the 30th recorded as a decrease in signal strength instead of the usual enhancement. This one was made by recording the standard frequency station in Boulder, Colorado operating on 60 kHz. Just above it is another chart which also shows an inverted SES made by recording a nearby station on 37.2 kHz. Such inverted SES's occur frequently when the recorded station is not very distant. The chart is reproduced upside down so time advances in the usual direction from left to right. This event is notable for the long rise time which lasted 30 minutes. Its total duration of almost two hours was also unusual for an event of such modest intensity.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



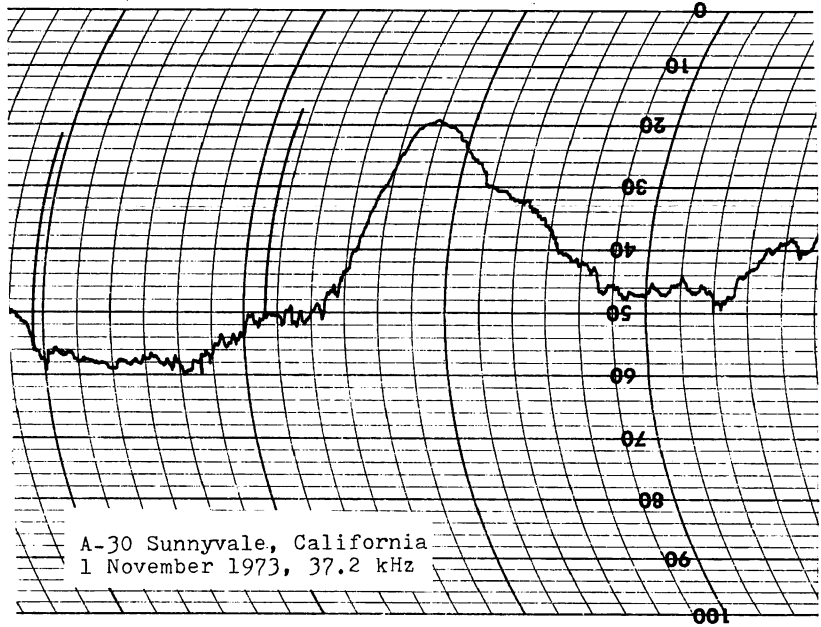
AMERICAN (R_A) AND ZURICH (R_Z) RELATIVE SUNSPOT NUMBERS FOR NOVEMBER 1973

SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING NOVEMBER 1973

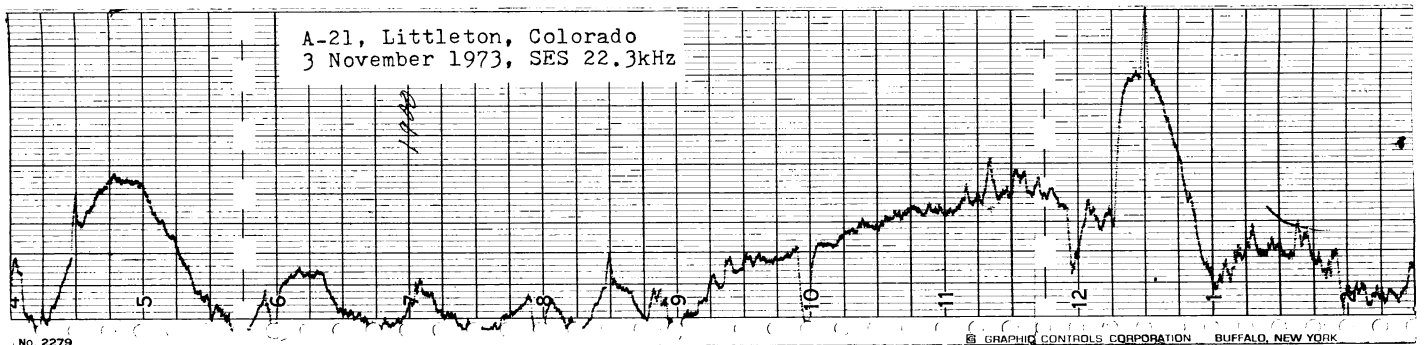
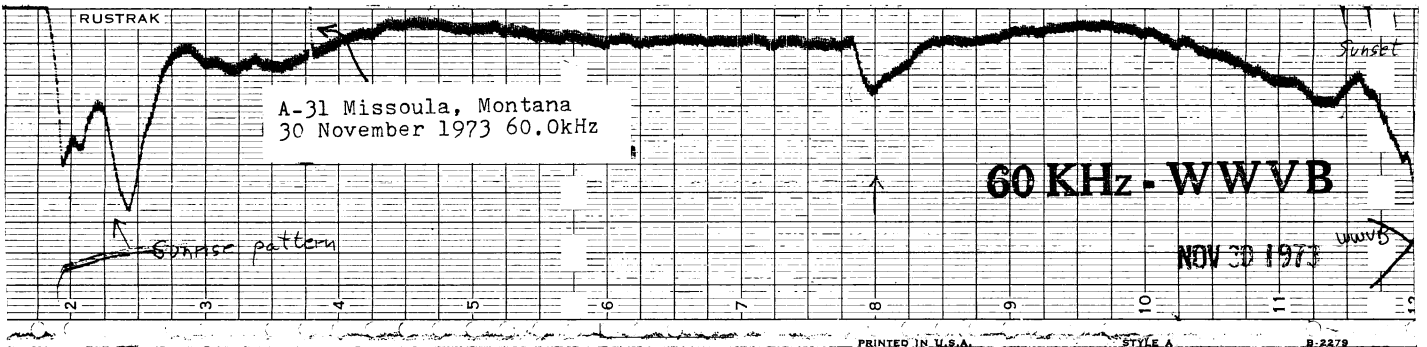
Day	R _A	R _Z
1	29	31
2	33	33
3	21	23
4	16	20
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	7
12	3	0
13	9	9
14	12	11
15	14	12
16	14	13
17	13	12
18	13	16
19	15	22
20	11	16
21	15	23
22	26	29
23	40	39
24	41	37
25	50	38
26	75	54
27	66	56
28	81	54
29	67	54
30	62	55
Means	24.2	22.1

SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING NOVEMBER 1973

DAY	MAX	SEA	SES	DEF	OBSERVERS	DAY	MAX	SEA	SES	OBSERVERS
1	1930		2	2	A30, 31, 19	20	1838	1-	1	A30, 19, 31, 26, 38
3	0022		3	5	A21, 31	27	0316		2	A21, 31
4	2003		2	5	A30, 19	30	1955		2-	A30, 19, 31, 38
14	0240		2-	3	A31, 21					



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