

# OBSERVATIONAL RESULTS OF SOLAR RADIO EMISSION

## RADIO ASTRONOMY SECTION

### I. Observations of flux density at 3750 MC.

Continuing from the last Proceedings, the value of flux density at 3750 MC computed from daily observations during the period from February, 1954 to July, 1955 is given in Fig. 1 and Table 1. Outstanding occurrences in the period are separated and shown in Fig. 2 and Table 2.

Table 3 is the detailed data around the solar eclipse on June 20, 1955. (refer to page 84).

Table 1. Daily values at 3,750 MC  
February 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	82	82	82	82	82		
2	82	82	82	82	82		
3	80	80	80	80	80	80	
4	80	80	80	80	80	80	80
5	80	80	80	80	80		
6	80	80	80	80	80	80	80
7	80	80	80	80	80		
8	80	80	80	80	80		
9	80	80	80	80	80	80	80
10	80	80	80	80	80	80	80
11	80	80	80	80	80		
12	80	80	80	80	80		
13	80	80	80	80	80		
14	80	80	80	80	80		
15	80	80	80	80	80		
16	80	80	80	80	80		
17	80	80	80	80	80		
18	80	80	80	80	80		
19	80	80	80	80	80		
20	80	80	80	80	80		
21	80	80	80	80	80		
22	80	80	80	80	80		

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
23	80	80	80	80	80		
24	80	80	80	80	80		
25	80	80	80	80	80		
26	80	80	80	80	80		
27	80	80	80	80	80		
28	—	—	—	—	—		

March 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	80	80	80	80	80		
2	84	84	84	84	84		
3	82	82	82	82	82		
4	82	82	82	82	82		
5	80	80	80	80	80		
6	80	80	80	80	80		
7	—	—	—	—	—		
8	80	80	80	80	80		
9	80	80	80	80	80		
10	82	82	82	82	82	82	82
11	82	82	82	82	82	82	82
12	82	82	82	82	82	82	82
13	84	84	84	84	84	84	84
14	90	88	88	88	—	90	90
15	96	96	96	96	96	98	98
16	96	96	96	96	96	98	100
17	94	92	92	94	94	94	94
18	90	90	90	90	90	90	90
19	90	90	90	90	90	90	90
20	88	88	88	88	88	88	88
21	88	88	88	88	88	88	88
22	84	84	84	84	84	84	84
23	82	82	82	82	82	82	82
24	80	80	80	80	80	80	80
25	80	80	80	80	80	80	80
26	80	80	80	80	80	80	80

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
27	80	80	80	80	80	80	80
28	80	80	80	80	80	80	80
29	80	80	80	80	80	80	—
30	80	80	80	80	80	80	80
31	78	78	78	78	78	78	78

## April 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	78	78	78	78	78	78	78
2	78	78	78	78	78	78	78
3	78	78	78	78	78	78	78
4	78	78	78	78	78	80	80
5	80	80	80	80	80	80	80
6	80	80	80	80	80	80	80
7	82	82	82	82	82	82	82
8	82	82	82	82	82	82	82
9	82	82	82	82	82	82	82
10	82	82	82	82	82	82	82
11	—	—	—	—	—	—	—
12	82	—	82	82	82	—	—
13	82	82	82	82	82	—	—
14	82	82	82	82	82	—	—
15	82	82	82	82	82	82	82
16	82	82	82	82	82	—	—
17	82	82	82	82	82	—	—
18	—	—	—	—	—	—	—
19	80	80	80	80	80	—	—
20	80	80	80	80	80	—	—
21	80	80	80	80	80	—	—
22	80	80	80	80	80	—	—
23	80	80	80	80	80	80	—
24	80	80	80	80	80	80	—
25	—	—	—	—	—	—	—
26	78	78	78	78	78	—	—
27	78	78	78	78	78	—	—

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
28	78	78	78	78	78		
29	78	78	78	78	78		
30	78	78	78	78	78	78	78

May 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	78	78	78	78	78		
2	—	—	—	—	—		
3	80	80	80	80	80		
4	80	80	80	80	80		
5	80	80	80	80	80	80	80
6	80	80	80	80	80		
7	80	80	80	80	80		
8	78	78	78	78	78(a)		
9	—	—	—	—	—		
10	78	78	78	78	78		
11	78	78	78	78	78		
12	78	78	78	78	78		
13	78	78	78	78	78	78	78
14	80	80	80	80	80		
15	—	—	—	—	—		
16	78	78	78	78	78		
17	78	78	78	78	78		
18	78	78	78	78	78		
19	78	78	78	78	78		
20	78	78	76	78	78	78	78
21	78	78	78	78	78		
22	78	78	78	78	78		
23	—	—	—	—	—		
24	76	76	76	76	76		
25	78	78	78	78	78		
26	78	78(b)	78	78	78		
27	76	76	76	76	76		
28	78	78	78	78	78	78	78
29	78	78	78	78	78		
30	—	—	—	—	—		
31	78	78	78	78	78		

June 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	77	77	77	77	77		
2	78	78	78	78	78		
3	78	78	78	78	78		
4	78	—	78	78	78		
5	—	—	—	—	—		
6	78	78	78	78	78		
7	77	77	77	77	77	77	77
8	78	78	78	78	78		
9	78	78	78	78	78		
10	77	77	77	77	77	77	77
11	77	77	77	77	77	77	77
12	77	77	77	77	77		
13	77	77	77	77	77	77	77
14	78	—	78	78	78		
15	77	77	77	77	77	77	77
16	78	78	78	78	78	78	78
17	78	78	78	78	78	78	78
18	78	78	78	78	78	78	78
19	78	78	78	78	78	78	78
20	77	77	77	77	77	77	77
21	77	77	77	77	77	77	77
22	77	77	77	77	77	77	77
23	78	78	78	78	78	78	78
24	77	77	77	77	77	77	77
25	77	77	77	77	77	77	77
26	76	77	77	77	76	76	76
27	77	77	77	77	77	77	77
28	77	77	77	77	77	77	77
29	77	77	77	77	77	77	77
30	78	78	78	78	78	78	78

July 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	77	77	77	77	77	77	77
2	77	77	77	77	77	77	77
3	77	77	77	77	77	77	77
4	78	—	78	78	78	78	78
5	78	78	78	78	78	78	78
6	78	78	78	78	78	78	78
7	78	78	78	78	78	78	78
8	78	78	78	78	78	78	78
9	78	78	78	78	78	78	78
10	78	78	78	78	78	78	78
11	—	—	—	—	—		
12	78	78	78	78	78	—	79
13	79	79	79	79	79	79	79
14	78	78	78	78	78	78	78
15	78	78	78	78	78	78	78
16	79	79	79	79	79	79	79
17	78	78	78	78	78		
18	—	—	—	—	—		
19	78	78	78	78	78	78	78
20	78	78	78	78	78		
21	78	78	78	78	78	78	78
22	78	78	78	78	78	78	78
23	79	79	79	79	79	79	79
24	79	79	79	79	79		
25	—	—	—	—	—		
26	79	79	79	79	79	79	79
27	79	79	79	79	79	79	79
28	79	79	79	79	79		
29	79	79	79	79	79		
30	81	81	81	81	81		
31	80	80	80	80	80		

## August 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	81	81	81	81	81	—	—
2	82	82	82	82	82	—	—
3	82	82	82	82	82	82	—
4	82	82	82	82	82	—	—
5	82	82	82	82	82	—	—
6	82	82	82	82	82	—	—
7	82	82	82	82	82	—	—
8	81	81	81	81	81	—	—
9	81	81	81	81	81	—	—
10	85	85	85	85	85	—	—
11	84	84	84	84	84	—	—
12	83	83	83	83	83	—	—
13	82	82	82	82	82	—	—
14	—	—	—	—	—	—	—
15	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—
17	81	81	81	81	81	—	—
18	81	81	81	81	81	81	—
19	80	80	80	80	80	80	80
20	79	79	79	79	79	—	—
21	81	81	81	81	81	81	81
22	81	81	—	—	—	—	—
23	84	84	84	84	84	—	—
24	84	84	84	84	86	86	—
25	82	82	82	82	82	—	—
26	80	80	80	80	80	80	90
27	81	81	81	81	81	81	81
28	80	80	80	80	80	—	—
29	80	—	—	80	80	81	81
30	80	80	80	80	80	—	—
31	78	78	78	78	78	—	—

September 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	79	79	79	79	79	—	—
2	80	80	80	80	80	80	80
3	80	80	80	80	80	—	—
4	80	80	—	80	80	—	—
5	—	—	—	—	—	—	—
6	82	82	82	82	82	82	82
7	82	82	82	82	82	—	—
8	81	81	81	81	81	—	—
9	81	81	81	81	81	—	—
10	80	80	80	80	80	80	80
11	81	81	81	81	81	81	81
12	81	81	81	81	81	81	81
13	81	81	81	81	81	81	81
14	82	82	82	82	82	82	82
15	82	82	82	82	82	82	82
16	81	81	81	81	81	81	81
17	81	81	81	81	81	81	81
18	82	82	82	82	82	—	—
19	81	81	81	81	81	81	81
20	81	81	81	81	81	81	81
21	82	82	82	82	82	82	82
22	82	82	82	82	82	82	82
23	82	82	82	82	82	82	82
24	82	82	82	82	82	82	82
25	82	82	82	82	82	82	82
26	82	82	82	82	82	82	82
27	83	83	83	83	83	83	83
28	83	83	83	83	83	83	83
29	84	84	84	84	84	84	84
30	85	84	85	85	85	85	85



October 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	85	85	85	85	85	85	85
2	86	86	86	86	86	86	87
3	88	88	88	88	88	88	88
4	88	88	88	88	88	88	88
5	89	89	89	89	89	89	89
6	86	86	86	86	86	86	86
7	86	86	86	86	86	86	86
8	85	85	85	85	85	85	85
9	86	86	86	86	86	86	86
10	85	85	85	85	85	85	85
11	86	86	86	86	86	—	—
12	87	87	87	87	87	87	87
13	87	87	87	87	87	—	—
14	86	86	86	86	86	86	—
15	87	87	87	87	87	—	—
16	87	87	87	87	87	—	—
17	—	—	—	—	—	—	—
18	85	85	85	85	85	—	—
19	87	—	87	87	87	—	—
20	84	84	84	84	84	—	—
21	85	84	84	85	85	86	86
22	85	85	85	85	85	—	—
23	—	—	—	—	—	—	—
24	83	83	—	—	—	—	—
25	83	—	—	—	83	83	83
26	84	—	—	—	84	84	84
27	83	83	83	83	83	83	83
28	83	83	83	83	83	83	83
29	83	83	83	83	83	83	83
30	83	83	83	83	83	83	83
31	84	84	84	84	84	84	84

## November 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	82	82	82	82	—	—	—
2	82	82	—	82	82	—	—
3	81	81	81	81	82	82	—
4	82	82	82	82	82	—	—
5	82	82	82	82	82	—	—
6	82	82	82	82	82	—	—
7	—	—	—	—	—	—	—
8	85	84	84	85	85	—	—
9	85	85	85	85	85	—	—
10	91	90	90	91	91	92	92
11	91	91	91	91	91	—	—
12	93	—	—	93	—	—	—
13	93	93	93	93	93	—	—
14	—	—	—	—	—	—	—
15	91	92	92	91	91	—	—
16	89	89	89	89	89	89	—
17	88	88	88	88	88	—	—
18	84	84	84	84	84	84	84
19	84	84	84	84	84	84	84
20	84	84	84	84	84	—	—
21	—	—	—	—	—	—	—
22	83	83	83	83	83	83	—
23	83	83	83	83	83	—	—
24	84	84	84	84	84	—	—
25	84	84	84	84	84	—	—
26	84	84	84	84	84	—	—
27	83	83	83	83	83	—	—
28	—	—	—	—	—	—	—
29	84	84	84	84	84	84	84
30	84	84	84	85	85	86	—

December 1954

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	86	86	86	86	86	—	—
2	87	87	87	87	87	—	—
3	86	86	86	86	86	—	—
4	86	86	86	86	86	—	—
5	86	86	86	86	86	—	—
6	84	84	84	84	84	84	84
7	84	84	84	84	84	84	—
8	85	85	85	85	85	—	—
9	85	85	85	85	85	85	—
10	84	84	84	84	84	84	84
11	84	84	84	84	84	84	84
12	85	85	85	85	85	85	—
13	86	86	86	86	86	86	86
15	85	85	85	85	85	85	85
15	86	86	86	86	86	86	86
16	93	93	93	93	93	93	93
17	93	93	93	93	93	93	93
17	—	—	—	—	—	—	—
19	93	93	93	93	93	93	93
20	92	92	92	92	92	92	92
21	89	89	89	89	89	89	89
22	87	87	87	87	87	87	87
23	87	87	87	87	87	87	87
24	87	87	87	87	87	87	77
25	85	85	85	85	85	85	—
26	84	84	84	84	84	84	84
27	84	84	84	84	84	84	84
28	84	84	84	84	84	84	84
29	83	83	83	83	83	83	83
30	90	89	89	89	90	90	92
31	91	91	91	91	91	91	91

January 1955

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	88	88	88	88	88	88	88
2	87	87	87	87	87	87	87
3	88	88	88	88	88	88	88
4	88	88	88	88	88	88	88
5	93	93	93	93	93	93	94
6	108	103	103	105	109	108	108
7	113	114	113	113	113	113	116
8	114	111	114	114	114	111	112
9	111	111	111	111	111	111	111
10	111	111	111	111	111	111	112
11	111	108	109	112	113	111	111
12	109	109	109	109	109	111	111
13	109	109	109	109	109	109	109
14	105	105	105	105	105	104	104
15	103	101	101	103	105	129	129
16	101	105	103	103	101	101	101
17	97	99	99	99	97	97	97
18	96	96	96	96	96	95	95
19	92	92	92	92	92	92	92
20	89	89	89	89	89	89	89
21	87	87	87	87	87	—	—
22	85	85	85	85	85	—	—
23	84	—	84	84	84	—	—
24	91	90	92	92	91	90	89
25	90	90	90	90	90	—	90
26	90	90	90	90	90	90	90
27	90	90	90	90	90	90	90
28	90	90	90	90	90	90	90
29	89	89	89	89	89	—	—
30	91	—	—	—	91	91	91
31	93	93	93	93	93	93	93

Units are  $10^{-22}$  watts metre<sup>-2</sup> (cycle/sec.)<sup>-1</sup> —2 polarizations.  
Time : U.T.

## February 1955

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	93	93	93	93	93	93	93
2	94	94	94	94	94	94	94
3	95	95	95	95	95	95	95
4	100	99	99	100	100	100	100
5	97	97	97	97	97	97	97
6	93	—	—	—	93	93	93
7	94	93	93	94	94	—	—
8	95	94	94	95	95	95	95
9	95	95	95	95	95	95	95
10	96	96	96	96	96	96	96
11	93	93	93	93	93	93	93
12	93	93	93	93	93	93	93
13	91	—	91	91	91	—	—
14	91	91	91	91	91	91	91
15	90	90	90	90	90	90	90
16	89	89	89	—	89	89	89
17	87	87	87	87	87	87	87
18	87	87	87	87	87	87	87
19	87	87	87	87	87	87	87
20	—	—	—	—	—	—	—
21	89	89	89	89	89	89	89
22	88	88	88	88	88	88	88
23	90	90	90	90	90	90	90
24	92	91	91	92	92	92	92
25	92	92	92	92	92	92	92
26	91	91	91	91	91	91	91
27	—	—	—	—	—	—	—
28	92	92	92	92	92	—	—

March 1955

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	91	91	91	91	92	92	92
2	90	90	90	90	90	90	90
3	88	88	88	88	88	—	—
4	88	88	88	88	88	88	88
5	88	88	88	88	88	88	88
6	89	—	—	89	89	89	89
7	88	88	88	88	88	88	88
8	87	87	87	87	87	87	87
9	86	86	86	86	86	86	86
10	86	86	86	86	86	86	86
11	86	86	86	86	86	86	86
12	85	85	85	85	85	85	85
13	84	84	84	84	84	84	84
14	84	84	84	84	84	84	84
15	85	85	85	85	85	85	85
16	84	84	84	84	84	84	84
17	84	84	84	84	84	84	84
18	84	84	84	84	85	86	87
19	85	85	85	85	85	85	85
20	85	85	85	85	85	85	85
21	85	85	85	85	85	85	85
22	85	85	85	85	85	85	85
23	84	84	84	84	84	84	84
24	84	84	84	84	84	84	84
25	84	84	84	84	84	84	84
26	85	85	85	85	85	85	85
27	85	85	85	85	85	85	85
28	84	84	84	84	84	84	84
29	84	84	84	84	84	84	84
30	85	85	85	85	85	85	85
31	85	85	85	85	85	85	85

April 1955

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	84	84	84	84	84	84	85
2	86	86	86	86	86	86	86
3	84	84	84	84	84	—	—
4	85	85	85	85	85	85	85
5	86	86	86	86	86	86	86
6	88	88	88	88	88	88	89
7	91	90	90	90	91	92	93
8	87	87	87	87	87	87	87
9	86	86	86	86	86	86	86
10	86	86	86	86	86	86	86
11	86	86	—	86	—	—	—
12	86	84	84	85	86	86	86
13	83	83	83	83	83	—	—
14	83	83	83	83	83	—	—
15	83	83	83	83	83	—	—
16	85	85	85	86	86	—	—
17	—	—	—	—	—	—	—
18	85	84	84	85	85	85	—
19	84	84	84	84	84	—	—
20	84	84	84	84	84	—	—
21	85	84	84	85	85	85	85
22	84	84	84	84	84	84	85
23	85	85	85	85	85	85	—
24	85	85	85	85	85	85	85
25	85	85	85	85	85	—	—
26	86	86	86	86	86	—	—
27	87	87	87	87	88	—	—
28	88	88	88	88	88	89	89
29	90	89	89	89	90	90	90
30	89	88	88	89	89	—	—

May 1955

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	89	—	89	89	89	—	—
2	89	89	89	89	90	90	90
3	90	89	89	90	90	91	91
4	93	92	93	94	94	93	92
5	91	91	91	91	91	—	—
6	91	91	91	91	91	91	91
7	89	89	89	89	89	89	89
8	88	88	—	88	88	—	—
9	88	88	88	88	88	88	88
10	87	87	87	87	87	87	87
11	86	86	86	86	86	86	86
12	85	85	85	85	85	—	—
13	84	83	83	84	84	85	85
14	84	84	84	84	84	—	—
15	84	84	84	84	85	—	—
16	86	85	85	86	86	86	86
17	87	86	86	87	87	88	88
18	89	89	89	89	89	89	89
19	90	89	89	90	90	90	90
20	91	89	89	90	91	91	91
21	99	98	99	99	101	101	102
22	104	101	102	104	104	104	104
23	99	99	99	99	99	99	99
24	99	98	98	99	99	99	99
25	96	96	96	96	96	96	96
26	96	95	95	95	96	96	96
27	100	98	99	100	102	104	103
28	103	104	104	103	102	102	102
29	100	100	100	100	100	100	100
30	97	98	97	97	96	96	96
31	93	92	92	92	93	93	93



## June 1955

Date	Daily Values	Hourly Values								
		23-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08
1	91		91	91	91	91	91	95		
2	89		89	89	89	89	89	89		
3	89		89	89	89	89	89	89	89	89
4	89		89	89	89	89	89	89		
5	89		89	89	89	89	89	89		
6	89		89	89	89	89	89	89		
7	89		89	89	89	89	89	89		
8	88		88	88	88	88	89	89		
9	93		93	93	93	93	93	93		
10	97		95	96	97	97	97	98	98	98
11	98		98	98	98	99	100	100		
12	107		106	106	106	107	107	107	109	110
13	104		103	104	103	103	104	104	104	104
13-14	109	106	108	109	109	112	113	112		
15	115		116	114	113	116	124	120	115	113
15-16	121	118	119	120	121	122	124	125		
16-17	121	120	120	120	121	121	121	124	125	122
17-18	117	116	119	119	118	117	117	113	112	113
18-19	116	115	116	115	116	115	117	118	116	116
19-20	126	124	124	126	129	E	E	E	124	135
20-21	115	115	116	117	114	115	116	114	112	112
21-22	103	103	103	103	103	103	103	103	103	103
22-23	100	97	98	98	99	100	100	100	100	100
24	94		94	94	94	94	94	94		
25	90		90	90	90	90	90	90		
25-26	88	88	88	88	88	88	88	88		
26-27	88	88	88	88	88	88	88	88		
28	88		88	88	88	88	89	89		
29	91		89	89	90	91	92	92		
30	92		92	92	92	92	92	93		

July 1955

Date	Daily Values	Hourly Values					
		00-01	01-02	02-03	03-04	04-05	05-06
1	95	94	94	95	95	95	95
2	98	98	98	98	98	98	98
3	99	98	98	98	99	99	99
4	104	103	104	105	106	106	104
5	105	104	105	105	105	106	
6	106	105	105	106	107	107	107
7	106	106	106	106	107	107	107
8	106	106	107	105	106	106	107
9	105	105	105	105	105	105	105
10	105	105	105	105	105	105	105
11	105	103	103	105	105	105	105
12	102	102	102	102	102	102	102
13	101	101	101	101	101		
14	99	99	99	99	99		
15	—	—	—	—	—		
16	95	96	95	95	95	95	95
17	92	92	92	92	92	92	92
18	91	91	91	91	91	91	91
19	93	91	92	93	93	93	93
20	91	91	91	91	91	91	91
21	91	91	91	91	91	91	
22	89	88	88	89	89	89	
23	87	87	87	87	87		
24	86	86	86	—	86	86	86
25	85	85(c)	—	—	—		
26	—	—	—	—	—		
27	—	—	—	—	—		
28	86	85	85	86	87	—	87
29	89	89	89	89	89		
30	93	91	92	93	93	94	
31	92	92	92	92	92		

Time : U.T.

Unit :  $10^{-22}$  watts metre<sup>-2</sup> (cycle/sec.)<sup>-1</sup> -2 polarizations.

E : Solar eclipse (see Table 3).

( ) : No observations, (a) 0344-0400, (b) 0031-0040, (c) 0049-0100.

Table 2. Outstanding Occurrences at 3,750 MC

Date	Starting time	Duration	Type	Maximum		Radio fadeouts
				Intensity	Time	
1954						
February						
March						
15	0349-00s	6m00s	SD	10	0352-50s	
16	0536-20s	2m00s	SD	8	0537-20s	
18	0221-20s	1m00s	SD	6	0221-30s	
19	0524-00s	2m00s	SD	8	0524-35s	
April						
May						
June						
July						
August						
24	0240-00s	1m00s	SD	9	0240-35s	
26	0434-20s	3m00s	SD	8	0435-50s	
26	0440-00s	30m	CD	1st peak 121	0442-55s	
				2nd peak 152	0444-30s	
September						
October						
November						
December						
1955						
January						
6	0336-00s	30s	SD	6	0336-20s	
7	0503-00s	15m00s	SD	8	0507-00s	
9	0219-30s	3m00s	SD	4	0220-30s	
15	0351-00s	31m	CD	44	0408-30s	
25	0131-00s	2m00s	CD	4	0132-10s	

Date	Starting time	Duration	Type	Maximum		Radio fadeouts
				Intensity	Time	
1955						
February						
8	0335-00s	6m00s	SD	4	0335-50s	
10	0137-00s	6m00s	CD	8	0138-20s	
14	0159-00s	1m30s	SD	3	0159-40s	
24	0102-00s	2m30s	CD	1st peak 147 2nd peak 190	0102-30s 0102-45s	
	1% rise and fall, 0057-30s-0114-00s.					
25	0125-30s	2m30s	SD	6	0126-40s	
March						
1	0559-30s	28m	CD	1st peak 11 2nd peak 14 3rd peak 16	0600-00s 0600-25s 0602-50s	
April						
May						
22	0140-20s	7m	CD	1st peak 3 2nd peak 3	0140-30s 0145-00s	
22	0330-00s	30s	SD	3	0330-20s	
23	0342-30s	1m00s	SD	40	0343-00s	
23	0351-30s	3m00s	CD	1st peak 3 2nd peak 3	0352-00s 0353-30s	
25	0228-30s	30s	SD	4	0228-40s	
30	0523-30s	4m00s	SD	4	0525-30s	
June						
1	0447-30s	6m00s	CD	1st peak 19 2nd peak 18 3rd peak 18 4th peak 18	0449-20s 0450-10s 0450-50s 0452-00s	
13	0714-10s	1m30s	SD	6	0714-45s	
14	2322-00s	5m00s	SD	11	2324-20s	
15	0358-40s	13m40s	CD	1st peak 490 last peak 100	0359-10s 0412-10s	
	1% rise and fall, 0358-30s-0415-30s.					
17	0516-50s	3m00s	CD	1st peak 6 2nd peak 6	0517-40s 0518-30s	
18	0028-05s	15s	SD	4	0028-10s	

Date	Starting time	Duration	Type	Maximum		Radio fadeouts
				Intensity	Time	
1955						
June						
18	0158-30s	6m	SD	7	0159-45s	
18	0433-10s	1m20s	SD	99	0433-30s	
	1% rise and fall, 0432-50s-0442.					
18	2345-00s	1m40s	SD	18	2345-50s	
19	0219-30s	8m30s	SD	7	0220-40s	
19	2212-50s	4m00s	SD	23	2214-30s	
19	2328-00s	5m00s	CD	1st peak	2	2328-10s
				2nd peak	4	2330-00s
				3rd peak	3	2332-30s
20	0028-00s	9m	SD	8	0029-00s	
20	0152-00s	46m	SD	16	0203-00s	
20	0615-40s	1m20s	SD	32	0615-50s	
20	0621-30s	4m30s	SD	10	0622-30s	
21	0133-20s	7m30s	SD	23	0133-45s	
21	0305-30s	3m30s	SD	9	0306-00s	
21	2318-00s	7m	SD	4	2319-30s	
21	2330-10s	9m	CD	1st peak	40	2330-50s
				2nd peak	14	2336-10s
July						
1	0520-10s	3m20s	CD	1st peak	7	0520-25s
				2nd peak	14	0522-00s
5	0208-50s	3m00s	CD	1st peak	172	0209-05s
				2nd peak	98	0209-30s
				3rd peak	89	0210-20s
				4th peak	96	0210-50s
	1% rise and fall, 0207-20s-0218.					
7	?	4m30s?	SD	6	0201-25s	
	end 0205-30s.					
7	0724-00s	3m00s	CD	1st peak	8	0724-30s
				2nd peak	22	0725-15s
				3rd peak	8	0726-40s
8	0005-15s	4m30s	SD	7	0005-45s	
8	0118-50s	45s	CD	1st peak	7	0119-00s
				2nd peak	39	0119-30s
8	0435-00s	4m00s	CD	1st peak	15	0435-25s
				2nd peak	9	0436-10s

Date	Starting time	Duration	Type	Maximum		Radio fadeouts
				Intensity	Time	
1955						
July				3rd peak	8	0437-15s
8	2357-00s	5m00s	SD		6	2359-00s
28	0254-10s	50s	SD		5	0254-25s

Time : U. T.

Unit :  $10^{-22}$  watts metre $^{-2}$  (cycle/sec.) $^{-1}$  -2 polarizations.

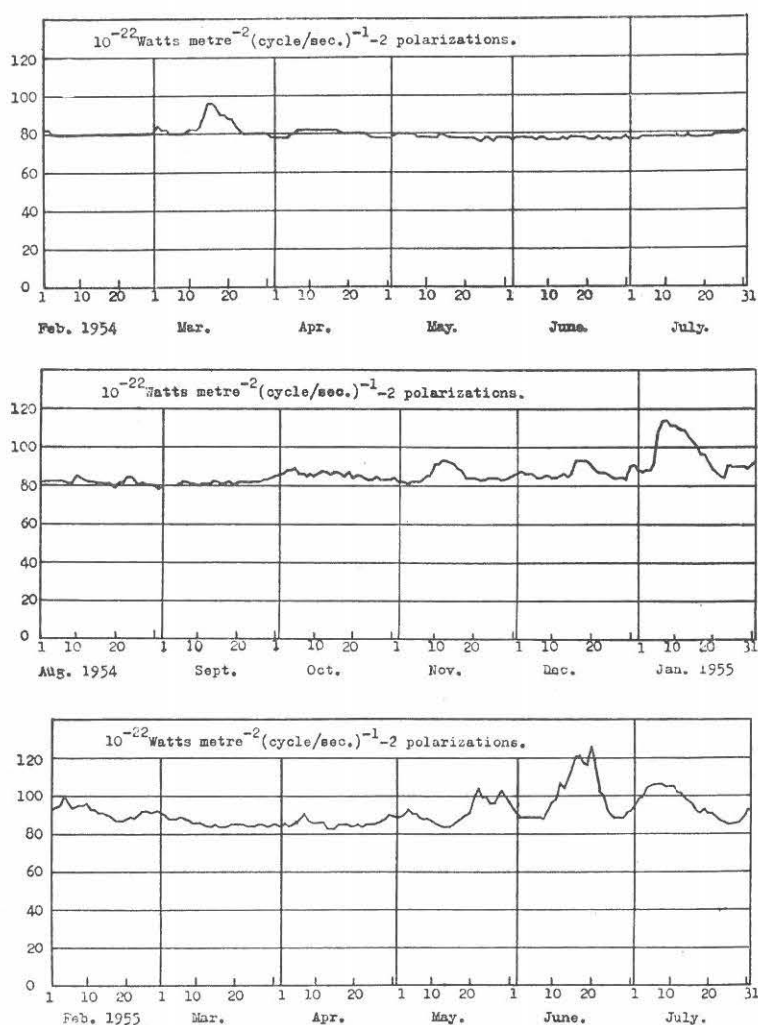
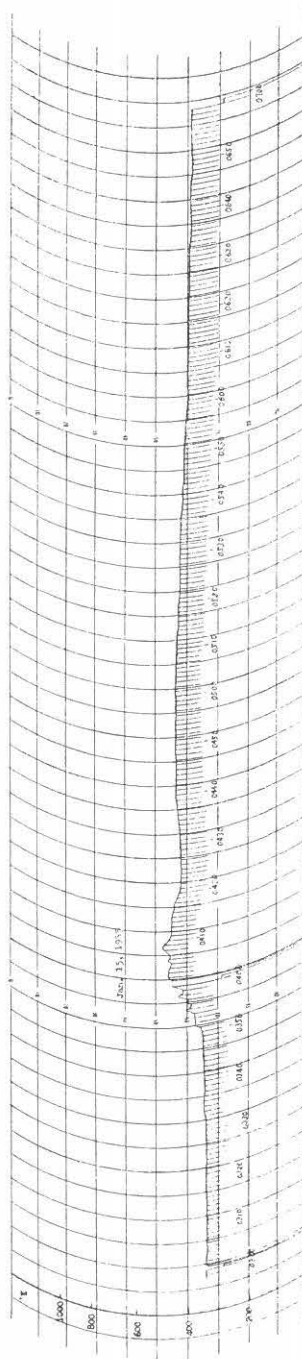
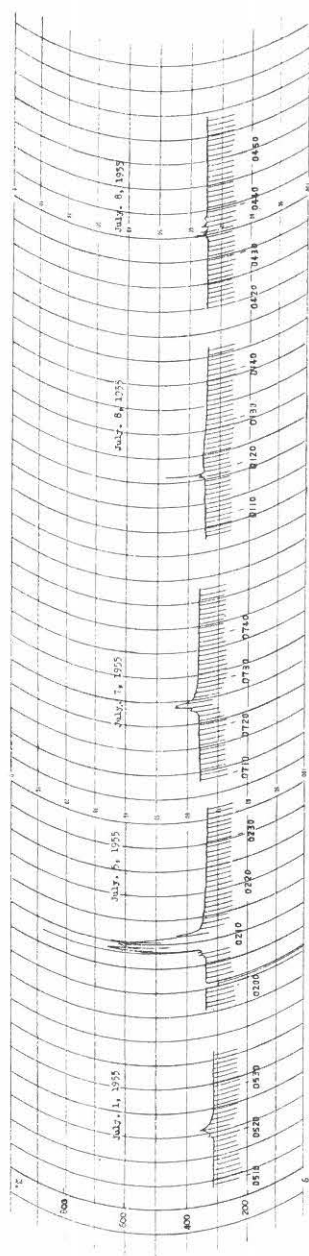
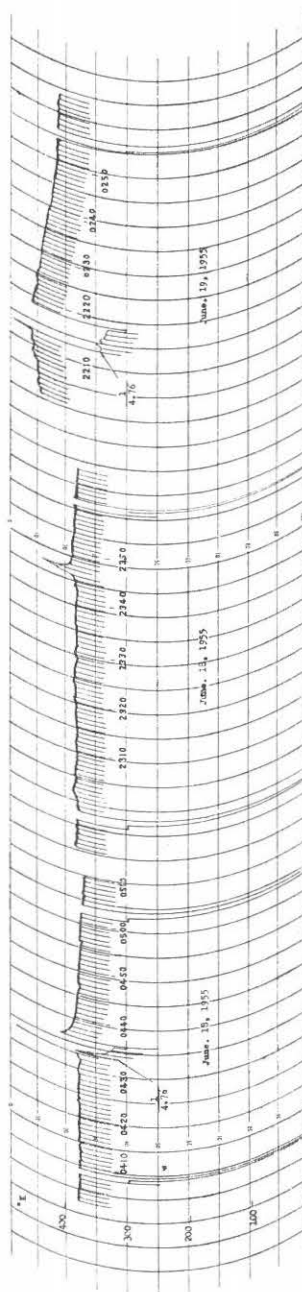
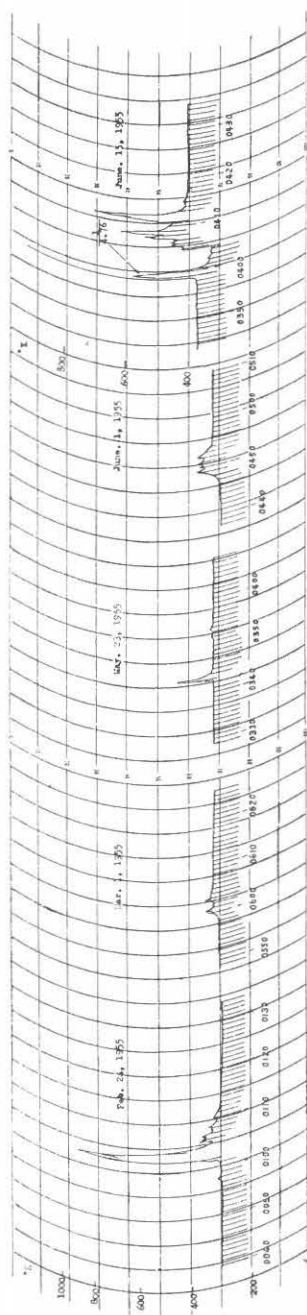


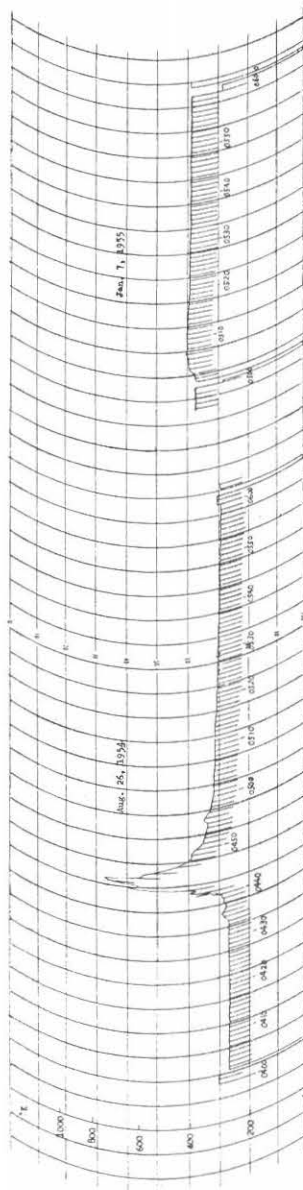
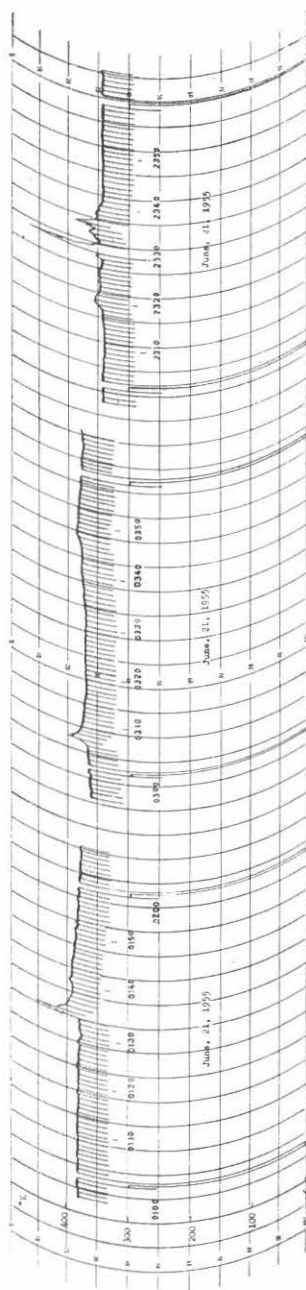
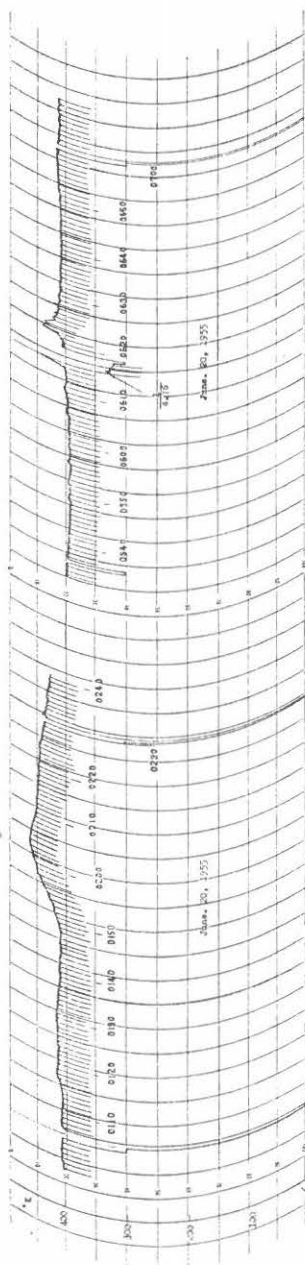
Fig. 1. Daily values at 3,750 MC

Fig. 2. Comparatively large outstanding occurrences









Tabl 3. Minutely values at 3,750MC around the solar eclipse on June 20, 1955.

Unit :  $10^{-22}$  watts metre $^{-2}$  (cycle/sec.) $^{-1}$  -2 polarizations.

Time : U.T.

Flux : Instantaneous Flux Density

Time	Flux	Time	Flux	Time	Flux	Time	Flux
0330	127.4	0410	111.2	0440	109.9	0510	124.6
0333	128.1	0411	108.7	0441	112.3	0511	125.1
0336	128.2	0412	107.5	40S	117.4	0512	124.9
0339	128.3	0413	105.0	0442	115.8	0513	125.1
0342	128.3	0414	102.7	30S	117.2	0414	124.9
				0443	116.7		
				0444	118.7		
0345	128.6	0415	101.1	0445	119.9	0515	124.9
0346	128.5	0416	99.3	0446	121.3	0516	124.8
0347	128.4	0417	97.3	0447	122.7	0517	125.1
0348	128.3	0418	95.6	0448	123.8	0518	124.9
0349	128.3	0419	93.6	0449	124.1	0519	124.9
0350	128.5	0420	92.1	0450	124.1	0520	124.4
0351	128.2	0421	91.1	0451	124.6	0521	124.8
0352	127.5	0422	90.0	0452	124.3	0522	124.8
0353	127.7	0423	89.0	0453	124.3	0523	124.8
0354	127.3	0424	88.9	0454	124.4	0524	125.0
0355	126.9	0425	88.7	0455	124.5	0525	124.8
0356	126.5	0426	88.6	0456	124.4	0526	124.8
0357	126.2	0427	88.6	0457	124.3	0527	124.8
0358	126.0	0428	89.2	0458	124.3	0528	124.4
0359	125.9	0429	89.8	0459	124.3	0529	124.0
0400	124.6	0430	91.1	0500	123.9	0530	123.3
0401	124.0	0431	92.5	0501	124.2	0533	Calib.
0402	123.5	0432	93.4	0502	124.6	0536	121.3
0403	122.8	0433	95.3	0503	124.3	0539	120.8
0404	122.1	0434	97.0	0504	124.6	0542	120.1
0405	120.8	0435	98.4	0505	124.4	0545	119.8
0406	119.6	0436	100.1	0506	124.5		
0407	118.3	0437	102.1	0507	124.1		
0408	116.2	0438	104.5	0508	124.3		
0409	113.7	0439	107.1	0509	124.6		

## II. Correction and summary of daily values at 3750 MC.

We have noticed that the daily values of flux at 3750 MC during the period from Nov., 1951 to Jan., 1953 have somewhat large (6 percent maximum) computation errors. On the other hand, the values of flux density had been expressed in the scale for "one

polarization" up to the last Proceedings. To avoid confusion, summary of daily values referring to "two polarizations" for almost all observations available is given in Table 4.

Table 4. Summary of daily values at 3,750 MC (partially revised)

Date	1951		1 9 5 2											
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	—	118	116	94	84	100	—	—	112	105	131	89	94	86
2	—	108	112	92	—	100	97	94	108	100	120	92	—	84
3	—	105	108	—	84	97	—	86	108	—	114	92	—	84
4	—	105	102	94	84	97	—	86	102	94	110	100	86	86
5	—	108	100	100	86	102	—	86	100	97	108	—	86	92
6	122	108	—	100	89	—	100	84	—	97	102	100	86	92
7	124	105	102	102	89	102	108	84	89	102	—	100	89	—
8	127	105	105	100	92	102	105	—	92	108	94	97	97	100
9	122	—	114	100	—	102	102	86	102	—	92	94	—	100
10	—	97	122	—	94	97	94	86	108	—	89	94	92	100
11	120	97	127	100	97	102	—	86	116	100	89	94	92	100
12	114	97	124	102	97	102	86	84	120	100	86	—	92	105
13	114	102	127	110	97	—	86	84	124	100	86	94	89	112
14	112	110	124	114	100	100	86	86	124	—	—	92	92	—
15	118	112	127	116	97	97	86	—	127	100	86	92	97	114
16	—	120	122	118	—	94	—	94	124	105	89	89	—	118
17	112	120	118	—	92	—	86	94	116	—	92	89	110	120
18	112	124	118	120	92	—	—	94	112	100	92	89	114	120
19	112	133	112	114	92	—	89	97	108	100	92	—	120	120
20	110	146	—	110	86	—	89	100	—	100	92	97	120	114
21	110	146	114	108	—	97	89	100	100	102	—	102	120	—
22	110	146	108	97	84	100	94	—	94	102	100	110	120	102
23	112	146	102	97	—	97	94	110	92	110	—	112	114	100
24	114	148	102	—	84	—	94	114	86	116	100	110	112	97
25	118	135	110	92	84	—	—	114	86	116	97	110	114	97
26	116	129	108	89	86	97	94	114	86	122	97	—	110	92
27	116	127	—	86	86	—	97	114	—	124	97	105	102	86
28	116	122	102	84	100	94	105	118	92	129	—	—	100	—
29	122	120	100	84	100	—	102	—	94	133	92	100	—	82
30	122	118	100	—	—	94	102	122	92	133	89	97	89	82
31	—	118	94	—	100	—	97	—	102	131	—	97	—	84

116.3 119.1 111.4 100.9 91.0 98.6 94.8

Date	1953												1954
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
1	86	—	—	94	112	80	76	78	80	86	—	82	82
2	89	86	84	96	106	84	76	78	80	86	86	82	82
3	89	88	84	96	100	86	78	80	80	88	84	82	82
4	—	90	84	96	94	86	—	82	80	86	84	82	82
5	97	90	84	96	90	88	78	82	82	84	84	82	80
6	105	90	84	92	82	82	78	82	—	86	82	82	82
7	105	88	82	90	82	—	78	82	86	86	82	84	82
8	105	—	—	92	78	82	78	82	86	84	84	82	80
9	112	88	80	92	78	82	80	—	86	84	82	82	80
10	112	88	80	92	—	82	80	88	86	82	82	82	80
11	—	86	80	88	76	80	—	96	86	—	82	82	80
12	114	86	80	82	76	80	80	104	88	84	80	82	82
13	114	86	80	80	76	80	82	98	—	86	80	82	82
14	114	84	80	78	76	82	82	102	90	90	—	82	82
15	110	84	—	76	76	82	—	104	92	92	80	82	80
16	108	84	80	76	76	84	82	98	92	88	82	80	82
17	102	82	80	—	—	86	82	92	90	84	80	80	—
18	—	82	78	76	78	86	82	88	90	84	82	80	82
19	94	82	78	—	78	84	—	86	—	84	82	82	82
20	92	80	80	76	80	84	80	86	86	84	82	82	82
21	89	78	80	78	82	—	80	86	84	82	82	84	82
22	86	—	80	82	84	82	80	84	84	—	84	82	82
23	86	78	78	90	84	82	80	—	86	84	84	84	—
24	84	78	78	96	84	82	80	82	88	84	84	84	80
25	—	78	82	100	82	82	80	80	88	84	84	84	80
26	84	78	82	—	82	82	78	78	88	84	84	82	82
27	84	80	84	112	82	80	76	78	88	84	84	84	82
28	84	80	—	116	82	—	78	78	88	84	84	84	82
29	84		88	116	82	78	78	78	88	84	82	84	82
30	84		88	112	82	78	78	—	86	84	82	84	82
31	86		92		—		78	78		86		84	—

The basis of the correction for the early part of the observations is as follows :

former value :	41	42	43	44	45	46	47	48	49	50
revised value :	82	84	86	89	92	94	97	100	102	105
former value :	51	52	53	54	55	56	57	58	59	60
revised value :	108	110	112	114	116	118	120	122	124	127
former value :	61	62	63	64	65	66	67	68	69	70
revised value :	129	131	133	135	137	139	142	144	146	148

### III. Records of the 8-element interferometer at 4000 MC

Drift curves of the interferometer referring to sunspots are shown in Fig. 3. The lower envelope of the monthly records is subtracted and separately shown at the top of each page. Continued from the last Proceedings, records are available for the period from Feb. 1 to Apr. 14 (5-element) and from June 1 to July 31 (8-element), but they are omitted because the rectangular co-ordinate type recorder had not been used.

### IV. Acknowledgement

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Fig. 3. Drift curves of the interferometer in relation to sunspots

