

IV. SOLAR RADIO NOISE DATA

CO-OPERATING OBSERVATORIES

Details relating to the contributors to the first quarter of 1954 are as follows:-

<u>OBSERVING STATION</u>	<u>ABBREVIATION</u>	<u>FREQUENCIES</u>	<u>NORMAL OBSERVING PERIOD</u>
		<u>USED</u>	(Hours U.T.)
Cavendish Laboratory, Cambridge, England	Cav	81	10 - 15
		175	10 - 15
Radiophysics Laboratory, Sydney, Australia	Syd	62	20 - 08
		98	20 - 08
		200	20 - 08
		600	20 - 07
		1200	20 - 07
		3000	00 - 06
		9400	00 - 06
Meudon Observatory, Paris, France	Meu	255	08 - 14
		545	08 - 14
National Research Council, Ottawa, Canada	Ott	2800	13 - 22
Laboratoire de Physique, Marcoussis, France	Mar	169	11 - 13
Cornell University, Ithaca, N.Y., U.S.A.	Cor	200	15 - 21
Tokyo Astronomical Observatory, Mitaka, Tokyo	Tok	60	00 - 08
		100	00 - 08
		200	00 - 08
Research Institute of Atmospherics, Nagoya University, Toyokawa, Japan	Nag	3750	23 - 08
Observing Station Nederhorst, Den Berg - Radio (Nera)	Ned	140	09 - 14
		200	09 - 14
National Bureau of Standards Central Radio Propagation Laboratory, Boulder, Colorado	NBS	460	14 - 24

TABULATED QUANTITIES

1. FLUX The unit for this tabulation is 10^{-22} watts metre⁻²(c/s)⁻¹. The values can readily be converted into equivalent temperature T of the sun's visible disc by the relation

$$\text{Flux} = 2.09 \times 10^{-44} \nu^2 T$$

where ν is the frequency in cycles per second.

2. POLARISATION The radio-electric (not optical) convention is adopted so that for R polarisation the vector, in a fixed plane, perpendicular to the ray, rotates clockwise when viewed in the direction of propagation. The values quoted are percentage polarisation, i.e.

$$100(I_R - I_L) / (I_R + I_L)$$

where I_R and I_L are the intensities.

3. VARIABILITY The variability is described by indices on a scale 0 - 3 where 0 = quiet, and 3 = violent variability.

4. OUTSTANDING OCCURRENCES

- S = Simple rise and fall of intensity
- C = Complex variation of intensity
- A = Appears to be part of general activity
- D = Distinct from (i.e. apparently superimposed upon) the general activity
- M = Two or more peaks separated by relatively long periods of quietness
- E = Sudden commencement of activity

The two maximum intensity columns contain, firstly, the maximum instantaneous value, and secondly, the maximum smoothed value measured above the previous level. The second is thought to be more suitable for comparative purposes. When the occurrence consists of well separated peaks (type M) it is not always possible to estimate a smoothed maximum value, and M is inserted in this column. The intensity unit in these columns is 10^{-21} watts metre⁻²(c/s)⁻¹.

1. FLUX

Daily medians of radio-noise flux received from the sun in units of 10^{-22} watts metre⁻²(c/s)⁻¹

JANUARY 1954

Mc/s	CAV	NED	MAR	CAV	SYD	COR	TOK	NED	MEU	NBS	MEU	SYD	SYD	OTT	SYD	NAG
	81	140	169	175	200	200	200	200	255	460	545	600	1200	2800	3000	3750
Date																
1	0.8	-	-	-	-	9	6	-	-	21	-	-	-	-	-	82
2	0.7	-	-	5	-	11	-	-	-	21	-	-	-	73	-	82
3	0.9	-	-	4	-	9	5	-	-	20	-	-	-	-	-	82
4	0.8	-	-	5	-	9	5	7	15	20	30	-	-	71	-	82
5	0.9	6	3	5	-	10	6	6	11	21	28	-	29	72	-	80
6	-	6	3	5	-	8	5	7	11	20	25	-	31	68	-	82
7	-	5	3	4	-	9	5	6	10	20	27	21	36	72	-	82
8	0.7	5	3	4	12	10	6	6	10	20	25	14	-	71	-	80
9	0.8	4	3	4	10	11	5	6	9	21	24	-	-	-	-	80
10	0.9	-	3	4	10	10	5	-	-	20	-	-	-	-	-	80
11	-	4	3	4	9	10	5	6	10	21	26	14	27	76	-	80
12	0.7	5	3	4	15	10	6	6	11	21	23	13	30	74	-	82
13	0.7	5	3	4	12	11	6	6	10	21	25	14	28	70	67	82
14	0.8	5	3	4	11	9	6	6	11	21	27	19	29	72	63	82
15	-	5	3	4	11	10	5	6	10	21	26	18	25	74	-	80
16	0.7	4	3	4	10	10	5	7	10	19	26	-	-	-	-	82
17	0.7	-	-	4	11	11	-	-	-	-	-	-	-	70	-	-
18	0.8	-	3	5	12	11	6	-	10	-	25	18	-	72	-	82
19	0.7	-	3	4	10	-	-	-	8	-	30	16	-	74	-	82
20	0.6	-	-	4	10	11	6	-	8	21	32	18	24	71	-	82
21	0.6	-	-	4	11	11	6	-	9	22	30	16	26	74	-	82
22	0.6	-	-	4	10	11	6	10	21	31	19	34	72	-	82	
23	-	-	-	4	8,-	12	6	-	9	21	30	-	-	-	-	-
24	0.8	-	-	-	-	-	6	-	-	21	-	-	-	-	-	80
25	0.7	-	-	4	10	12	6	-	9	21	29	25	-	70	69	80
26	-	-	-	4	10	11	5	-	8	21	27	17	27	72	76	82
27	-	-	-	4	10	11	5	-	10	21	25	14	30	71	51	82
28	-	-	-	4	10	11	-	-	9	20	-	18	-	73	50	82
29	0.7	-	-	5	8,-	11	6	-	9	21	25	17	27	71	49	82
30	0.7	-	-	5	-	12	6	-	10	21	26	-	-	-	-	82
31	-	-	-	5	-	12	6	-	-	21	-	-	-	-	-	-

G = median level below threshold (6 units at 62 Mc/s, 8 units at 98 Mc/s)

Sydney 62 Mc/s, and Sydney 98 Mc/s - G for the whole month

FEBRUARY 1954

Mc/s	CAV	NED	CAV	SYD	COR	TOK	NED	NBS	SYD	SYD	OTT	SYD	NAG	SYD
	81	140	175	200	200	200	200	460	600	1200	2800	3000	3750	9400
Date														
1	0.8	4	5	-	10	6	6	21	-	-	73	-	82	-
2	0.7	4	5	13	11	6	6	21	17	-	-	54	82	203
3	0.7	4	5	11	11	6	6	21	-	-	70	-	80	-
4	-	4	5	10	11	6	6	21	12	-	73	-	80	-
5	-	-	5	9,-	11	6	6	21	21	26	72	64	80	-
6	0.8	4	5	-	11	5	6	21	-	-	-	-	80	-
7	0.7	4	5	-	10	5	6	21	-	-	-	-	80	-
8	0.8	4	5	12	10	5	6	20	-	-	71	56	80	-
9	0.8	-	5	11	11	5	6	21	-	-	-	48	80	-
10	0.9	-	5	11	10	5	7	21	21	29	72	-	80	-
11	0.8	5	5	10	11	5	6	21	-	30	72	59	80	265
12	0.7	4	5	10	11	5	7	21	18	23	-	-	80	202
13	0.8	4	5	11	11	5	7	21	-	-	-	-	80	-
14	0.8	-	5	11	10	5	6	21	-	-	-	-	80	-
15	-	4	5	13	11	6	6	20	17	29	73	-	80	239
16	0.7	4	5	11	11	6	6	20	16	34	71	-	80	231
17	0.9	4	5	12	11	-	6	20	29	33	-	-	80	274
18	0.7	4	5	12,-	11	5	6	21	18	31	71	-	80	200
19	0.7	4	5	11	11	5	7	21	16	28	70	-	80	194
20	0.8	4	5	11	11	5	7	20	-	-	-	-	80	-
21	0.9	-	5	12	11	5	-	21	-	-	-	-	80	-
22	0.8	4	5	12	12	5	6	20	-	33	70	-	80	-
23	0.7	4	5	12	12	5	7	21	16	38	72	-	80	-
24	0.7	4	5	11	11	5	6	20	-	31	71	-	80	-
25	0.8	4	5	12,-	11	-	6	21	18	27	73	-	80	-
26	-	4	-	-	11	6	6	20	17	32	73	-	80	-
27	0.8	4	5	-	12	5	6	20	-	-	-	-	80	-
28	0.9	-	5	-	12	5	-	21	-	-	73	-	-	-

G = median level below threshold (6 units at 62 Mc/s, 8 units at 98 Mc/s)

Sydney 62 Mc/s, and Sydney 98 Mc/s - G for the whole month

Two values are given, where these differ significantly, for the two Eastern observing periods (i.e. before sunset and after sunrise) in one day U.T.

loc

1. FLUX

Daily medians of radio-noise flux received from the sun in units of 10^{-22} watts metre⁻²(c/s)⁻¹

MARCH 1954

Mc/s	CAV	NED	CAV	SYD	COR	FOK	NED	NBS	SYD	SYD	OTT	NAG	SYD
	81	140	175	200	200	200	200	460	600	1200	2800	3750	9400
Date													
1	0.8	5	5	14,18	-	5	6	23	-	35	72	80	-
2	0.8	5	-	22,13	11	6	8	21	18	35	71	84	-
3	-	4	-	12	10	5	7	20	-	34	72	82	-
4	0.8	5	-	13,-	11	5	6	21	-	28	71	82	-
5	0.9	5	-	13,-	10	-	7	21	-	33	71	80	260
6	0.8	5	-	-	10	5	6	20	-	-	-	80	-
7	-	-	-	-	11	5	-	20	-	-	-	-	-
8	0.9	5	-	13	10	-	6	20	16	34	72	80	197
9	0.9	5	-	13	11	8	7	20	19	32	72	80	-
10	0.8	5	-	12	11	9	6	20	17	37	72	82	240
11	0.8	5	-	12,-	11	6	6	20	17	37	72	82	332
12	1.0	5	-	11	11	6	6	21	17	35	72	82	-
13	0.9	5	-	11	-	7	7	20	-	-	-	84	-
14	1.0	-	-	-	35	7	-	27	-	-	-	89	-
15	0.8	20	-	16,-	47	12	35	25	26	34	85	96	326
16	0.8	6	-	12	16	7	11	22	18	34	82	97	-
17	0.8	5	-	18,14	17	12	11	22	18	35	81	94	197
18	0.9	4	-	13	11	7	7	21	17	34	79	90	-
19	0.8	5	-	12	11	5	7	20	-	32	80	90	-
20	0.9	5	5	12	11	5	6	21	-	-	73	88	-
21	0.9	-	5	12,-	11	5	-	21	-	-	74	88	-
22	0.8	4	5	12	12	5	7	20	21	32	73	84	-
23	0.7	5	5	12	12	5	7	20	-	25	70	82	324
24	-	5	5	11,15	11	5	7	21	18	29	72	80	-
25	-	4	5	16,-	11	5	7	20	21	24	71	80	-
26	0.8	4	5	-	11	5	7	19	16	30	66	80	-
27	0.7	4	5	-	11	5	7	20	-	-	-	80	-
28	0.8	-	5	-	11	5	-	21	-	-	70	80	-
29	0.7	5	5	-	13	5	7	20	26	29	-	80	-
30	0.8	4	5	12	11	5	6	20	-	-	-	80	-
31	0.9	4	5	13	11	5	6	20	18	28	69	78	-

G = median level below threshold (6 units at 62 Mc/s, 8 units at 98 Mc/s)

Sydney 62 Mc/s, and Sydney 98 Mc/s - G for the whole month

Two values are given, where these differ significantly, for the two Eastern observing periods (i.e. before sunset and after sunrise) in one day U.T.

2. POLARISATION

Daily medians or means of polarisation and percentage

Mc/s	JANUARY 1954		FEBRUARY 1954		MARCH 1954	
	CAV	CAV	CAV	CAV	CAV	CAV
	81	175	81	175	81	175
Date						
1	-	-	-	0	0	0
2	0	0	-	0	-	0
3	0	0	-	0	-	-
4	0	0	-	0	-	-
5	0	0	-	0	-	-
6	-	0	-	0	-	-
7	-	0	0	0	-	-
8	-	-	0	0	0	-
9	-	0	0	0	0	-
10	0	0	0	0	-	-
11	-	0	0	0	-	-
12	0	0	0	0	-	-
13	0	0	0	0	-	-
14	0	0	0	0	-	-
15	-	0	0	0	-	-
16	0	0	0	0	-	-
17	-	-	-	0	-	-
18	-	0	-	0	-	-
19	0	0	-	0	-	-
20	0	0	-	0	-	0
21	-	0	0	0	-	0
22	0	0	0	0	-	0
23	-	-	0	0	-	0
24	0	0	-	0	-	0
25	0	0	-	0	-	0
26	-	0	-	-	-	0
27	-	0	-	0	-	0
28	-	0	-	0	-	0
29	0	0	-	0	-	0
30	0	0	-	0	-	0
31	-	0	-	-	-	0

4. OUTSTANDING OCCURRENCES

Station and frequency	Date 1954	Starting time	Duration	Type	Maximum intensity		Polarisation	Remarks	
					Inst.	Smooth			
Mc/s		U.T.	Minutes		$10^{-21} \text{ w m}^{-2} (\text{c/s})^{-1}$				
Cav 81	Jan 4	1022	15.0	CD	1.0	0.6			
Cav 175		1022	15.0	CD	0.9	0.2			
NBS 460		1756	0.2	SD	17	3.6			
NBS 460		1807	0.2	SD	5.7	1.1			
Cav 175		1108	30.0	CA	2.5	1.0			
NBS 460		12	1625	1.5	SD	3.6	2.3		
Cav 81	18	1156	2.0	SD	0.8	0.5			
Cav 175	18	1156	2.0	SD	1.2	0.5			
Cav 175	22	1144	1.0	SD	1.0	0.4			
NBS 460	23	2049	8.7	CD	10	-			
Cav 81	25	1118	4.0	SD	0.7	0.3			
Cav 175		1118	4.0	SD	0.7	0.2			
NBS 460		1539	5.0	CD	3.1	0.4			
Tok 100		0536	4.0	CD	5.0	1.0			
NBS 460		1628	6.5	CD	3.8	0.4			
Cav 175		5	1158	2.0	SD	2.2	0.3		
Cav 81	13	1107	3.0	SD	1.1	0.7			
Ott 2800	22	1600	1.5	SD	-	2.1			
Cav 81	23	1132	2.0	SD	1.5	0.5			
Cav 175	23	1132	1.0	SD	1.5	0.3			
Cav 81	23	1151	1.5	SD	1.3	0.5			
Cav 175		1151	0.5	SD	1.5	0.4			
Cav 175		1156	1.5	SD	3.0	2.0			
NBS 460		2334	2.5	CD	5.3	0.5			
Ned 200		5	1431	36.5	CA	5.5	2.5		
NBS 460		5	2336	2.5	CD	4.8	0.6		
Cav 81	10	1116	1.0	SD	0.3	0.2			
Cav 81	10	1200	1.0	SD	0.3	0.2			
NBS 460	14	1849	1.5	CD	6.6	0.7		Also, type M from 1314 on. Fade at 1610	
NBS 460	14	1915	1.0	CD	6.0	0.7			
Nag 3750	15	0349	6.0	SD	-	1.0			
Ned 200	15	0912	0.5	CD	20	9.0			
Ned 200	15	0958	0.3	CD	15	9.0			
NBS 460	15	2224	23.0	M	3.2	0.4		Also, type M from 1313 to 2018	
Nag 3750	16	0536	2.0	SD	-	0.8			
Ned 200	16	0713	2.8	CD	9.5	5.5			
NBS 460	16	1430	70.0	M	2.7	0.3			
NBS 460	16	1739	79.0	M	2.7	0.3			
NBS 460	16	2120	0.5	CD	5.9	1.0			
NBS 460	16	2312	88.0	M	2.8	0.2			
Nag 3750	18	0221	1.0	SD	-	0.6			
Nag 3750	19	0524	2.0	SD	-	0.8			
NBS 460	26	1759	0.8	SD	2.1	-			
Cav 175	29	1202	2.0	SD	1.6	0.8			

IV. SOLAR RADIO NOISE DATA

CO-OPERATING OBSERVATORIES

Details relating to the contributors to the second quarter of 1954 are as follows:-

OBSERVING STATION	ABBREVIATION	FREQUENCIES USED		NORMAL OBSERVING PERIOD (Hours U.T.)
		Mc/s		
Cavendish Laboratory, Cambridge, England	Cav	81		10 - 15
		175		10 - 15
Radiophysics Laboratory, Sydney, Australia	Syd	62		20 - 08
		98		20 - 08
		200		20 - 08
		600		20 - 08
		1200		20 - 08
		9400		00 - 06
National Research Council, Ottawa, Canada	Ott	2800		12 - 24
Cornell University, Ithaca, N.Y., U.S.A.	Cor	200		15 - 21
Tokyo Astronomical Observatory, Mitaka, Tokyo	Tok	60		00 - 08
		100		00 - 08
		200		00 - 08
Research Institute of Atmospheric, Nagoya University, Toyokawa, Japan	Nag	3750		23 - 08
Observing Station Nederherst, Den Berg - Radio (Nera)	Ned	140		07 - 16
		200		07 - 16
		545		07 - 16
National Bureau of Standards Central Radio Propagation Laboratory, Boulder, Colorado	NBS	167		12 - 17
		460		12 - 25

1. PLOT

APRIL 1954

Date	CAV	NED	NBS	CAV	SYD	GOR	TOK	NED	NBS	SYD	SYD	OTT	NAG
	81	140	167	175	200	200	200	200	460	600	1200	2800	3750
1	0.7	5	-	5	11	12	5	7	19	12	-	70	78
2	0.7	5	-	5	13	11	5	7	20	-	-	64	78
3	0.8	5	7	5	-	12	5	7	20	-	-	-	78
4	0.8	5	-	5	-	12	5	7	20	-	-	-	78
5	-	5	-	5	-	11	5	7	20	-	-	68	80
6	-	-	-	-	-	-	-	7	19	17	25	68	80
7	-	5	-	5	-	11	5	7	20	-	-	70	82
8	-	5	-	5	-	11	5	7	19	-	27	72	82
9	-	5	8	5	15,-	12	5	7	19	16	30	70	82
10	-	5	7	5	-	11	5	7	20	-	-	71	82
11	-	-	7	5	-	11	5	-	20	-	-	69	-
12	-	5	-	5	-	-	-	6	20	20	27	72	82
13	-	5	-	5	-	-	-	7	20	-	-	72	82
14	-	5	-	5	-	-	-	6	20	16	30	70	82
15	-	5	-	5	-	-	-	6	20	17	28	71	82
16	-	-	-	5	-	-	5	-	19	-	-	-	82
17	-	-	6	5	-	-	6	-	20	-	-	70	82
18	-	-	7	5	-	-	-	-	19	-	-	70	-
19	-	-	-	5	-	-	-	-	20	-	-	69	80
20	-	5	-	5	-	-	-	7	20	18	27	68	80
21	-	-	-	-	-	-	5	-	-	-	-	-	-
22	-	6	-	5	-	-	5	6	20	-	30	71	80
23	-	-	8	5	-	-	5	-	19	-	28	70	80
24	-	6	-	5	-	-	5	-	19	-	28	68	80
25	-	-	8	5	13,-	-	5	7	19	-	-	69	80
26	-	-	-	-	-	-	-	-	19	-	-	69	78
27	-	-	-	-	-	-	5	-	19	-	28	68	78
28	-	-	-	-	-	-	5	-	19	-	26	67	78
29	-	-	-	-	-	-	5	-	19	-	18	68	78
30	-	-	-	-	-	-	5	-	19	-	18	68	78
31	-	-	7	-	-	-	5	-	19	18	27	68	78

MAY 1954

Date	CAV	NBS	CAV	SYD	GOR	TOK	NED	NBS	NED	SYD	SYD	OTT	NAG	SYD
	81	167	175	200	200	200	200	460	545	600	1200	2800	3750	9400
1	-	-	-	15	-	5	-	20	-	-	-	-	78	-
2	-	-	-	16	-	5	-	20	-	-	-	-	68	-
3	-	-	-	15	-	5	-	20	-	-	-	68	80	-
4	-	-	-	17	11	5	8	20	-	13	30	69	80	355
5	-	-	-	18	10	5	7	20	-	14	31	69	80	-
6	-	8	-	18	10	5	7	20	-	13	25	67	80	313
7	-	7	-	19	11	5	8	20	28	14	-	68	80	-
8	-	-	-	19	11	5	8	-	25	-	-	-	78	-
9	-	7	-	18	11	5	8	20	-	-	-	-	-	-
10	-	-	-	18	11	5	8	20	26	-	26	69	78	-
11	-	-	-	17	11	5	-	20	-	15	-	68	78	-
12	-	-	-	18	-	5	-	20	-	32	-	68	78	-
13	-	-	-	17	-	5	-	20	-	-	-	68	78	-
14	-	-	-	17	11	5	7	20	24	-	-	68	78	-
15	-	7	-	13	11	5	7	20	26	-	28	68	80	257
16	-	-	-	13	11	-	-	20	25	-	-	-	78	-
17	-	-	-	14	11	5	7	20	25	12	25	68	78	-
18	-	-	-	16	11	5	7	20	25	-	-	67	78	-
19	-	-	-	18	11	5	8	20	25	-	-	78	78	-
20	-	-	-	17	11	5	8	20	24	-	25	66	78	-
21	-	-	-	18,-	11	5	8	20	24	12	26	67	78	-
22	0.9	8	-	-	11	-	7	20	24	-	-	68	78	-
23	1.1	7	-	18	11	5	-	20	-	-	-	66	-	-
24	1.0	-	-	16	11	5	-	20	25	14	25	68	76	-
25	1.0	-	5	16	11	5	7	19	26	19	25	58	78	-
26	1.0	-	5	18	11	5	7	20	26	12	25	68	78	384
27	-	-	-	15	10	5	-	20	26	13	-	69	76	-
28	1.0	-	-	14	11	5	8	19	26	16	27	66	78	-
29	1.0	7	-	16	11	5	-	-	24	-	-	67	78	-
30	1.9	-	-	15	11	5	-	-	20	-	-	67	78	-
31	-	-	5	16	11	5	-	20	25	13	30	68	78	-

1. FLUX

JUNE 1954

	CAV	NBS	CAV	SYD	COR	TOK	NED	NBS	NED	SYD	SYD	OTT	NAG	SYD
Mc/s	81	167	175	200	200	200	200	460	545	600	1200	2800	3750	9400
Date														
1	-	-	-	17	11	-	8	20	-	12	32	64	77	251
2	-	-	-	18	11	-	7	21	-	11	27	66	78	-
3	1.0	-	-	16	10	-	7	20	21	-	-	66	78	-
4	1.0	-	-	18	11	-	-	20	-	-	26	66	78	-
5	-	7	-	17	10	-	7	20	23	-	-	68	-	-
6	-	9	-	18	11	-	-	20	-	-	-	66	78	-
7	0.9	-	-	18	10	-	-	20	-	14	28	67	77	-
8	1.0	-	-	19	11	-	8	20	23	12	25	67	78	-
9	0.8	-	-	18	11	-	7	20	24	12	28	69	78	283
10	0.9	-	-	18	11	-	-	20	-	14	26	68	77	253
11	0.9	-	-	5	11	-	-	20	-	12	27	67	77	-
12	0.8	-	-	5	11	-	-	20	-	-	-	66	77	-
13	0.9	-	-	5	10	-	-	20	-	-	-	66	77	-
14	0.9	-	-	5	11	-	-	20	-	-	-	68	78	-
15	1.0	-	-	5	11	5	-	20	-	14	27	67	77	-
16	0.9	-	-	5	11	6	-	20	-	-	-	68	78	-
17	1.0	-	-	5	11	-	-	20	-	11	29	67	78	-
18	0.8	-	-	5	11	6	-	20	-	-	-	67	78	-
19	0.9	-	-	5	11	-	-	20	-	-	-	67	78	-
20	0.9	-	-	5	11	-	-	-	-	-	-	64	77	-
21	0.8	-	-	5	11	6	-	20	-	-	-	64	77	-
22	0.9	-	-	5	11	6	-	20	-	-	-	65	77	-
23	1.0	-	-	5	11	-	8	20	25	14	-	67	78	-
24	0.9	-	-	5	11	6	-	20	24	-	-	67	77	306
25	1.5	-	-	5	11	-	-	20	-	13	25	67	77	255
26	-	-	-	5	11	-	7	-	23	-	-	66	76	-
27	-	-	-	5	10	-	-	-	-	-	-	62	77	-
28	0.9	-	-	5	11	-	8	-	24	15	-	69	77	303
29	0.9	-	-	5	-	-	8	-	23	14	-	68	77	279
30	0.9	-	-	5	11	6	8	24	24	13	28	68	78	265

Daily medians of radio-noise flux received from the sun in units of 10^{-22} watts metre⁻²(e/s)⁻¹

G = median level below threshold (6 units at 62 Mc/s, 8 units at 98 Mc/s)

Sydney 62 Mc/s, and Sydney 98 Mc/s - G for the whole quarter

Two values are given, where these differ significantly, for the two Eastern observing periods (i.e. before sunset and after sunrise) in one day U.T.

2. POLARISATION

No circular polarisation was found by Cav 175 from the 1st., to the 11th., of August. No other polarisation measurements were taken during this quarter.

4. OUTSTANDING OCCURRENCES

Station and frequency	Date 1954	Starting time	Duration	Type	Maximum intensity		Polarisation	Remarks
					Inst.	Smooth		
Mc/s		U.T.	Minutes		10^{-21} w m ⁻² (e/s) ⁻¹			
Cav 175	Apr 8	1241	2.0	SD	1.2	0.4	-	
Cav 81	May 23	1125	1.0	SD	0.5	0.3	-	
Ott 2800	26	1957	3.0	CD	-	5.2	-	
Cav 81	June 8	1306	0.5	SD	0.9	0.5	-	
Cav 175	8	1306	0.5	SD	1.8	0.5	-	
Cav 175	10	1127	1.0	CD	2.4	1.0	-	
Cav 81	16	1117	0.5	SD	1.0	0.7	-	
Cav 175	16	1117	0.5	SD	1.0	0.5	-	
Cav 81	20	1204	1.5	SD	1.0	0.6	-	
Cav 175	20	1204	1.0	SD	2.3	1.0	-	
Cav 81	23	1334	2.0	SD	2.5	1.8	-	
Cav 175	23	1334	4.0	SD	4.5	2.8	-	

3. VARIABILITY

Daily indices on a scale 0 - 3 of the variability of the solar noise

Mo/s	APRIL 1954											MAY 1954											JUNE 1954																
	TOK	SYD	CAV	SYD	TOK	NED	NBS	CAV	SYD	COR	TOK	NED	NBS	TOK	SYD	CAV	SYD	COR	TOK	NED	NBS	NED	TOK	SYD	CAV	SYD	TOK	NBS	CAV	SYD	COR	TOK	NED	NBS	NED				
Date	60	62	81	98	100	140	167	175	200	200	200	200	460	60	62	81	98	100	167	175	200	200	200	200	460	545	60	62	81	98	100	167	175	200	200	200	200	460	545
1																																							
2																																							
3																																							
4																																							
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							
13																																							
14																																							
15																																							
16																																							
17																																							
18																																							
19																																							
20																																							
21																																							
22																																							
23																																							
24																																							
25																																							
26																																							
27																																							
28																																							
29																																							
30																																							
31																																							

Two values are given, where these differ significantly, for the two Eastern observing periods (i.e. before sunset and after sunrise) in one day U.T.

IV. SOLAR RADIO NOISE DATA

CO-OPERATING OBSERVATORIES

Details relating to the contributors to the third quarter of 1954 are as follows:-

OBSERVING STATION	ABBREVIATION	FREQUENCIES USED	Mc/s	NORMAL OBSERVING PERIOD (Hours U.T.)
Cavendish Laboratory, Cambridge, England	Cav	81	10 - 15	
		175	10 - 15	
Radiophysics Laboratory, Sydney, Australia	Syd	62	20 - 08	
		98	20 - 08	
		200	20 - 08	
		600	20 - 08	
		1200	20 - 08	
		9400	00 - 06	
National Research Council, Ottawa, Canada	Ott	2800	12 - 24	
Cornell University, Ithaca, N.Y., U.S.A.	Cor	200	13 - 20	
Tokyo Astronomical Observatory, Mitaka, Tokyo	Tok	60	00 - 06	
		100	00 - 06	
		200	00 - 06	
Research Institute of Atmospheres, Nagoya University, Toyokawa, Japan	Nag	3750	00 - 08	
Observing Station Nedarhorst, Den Berg - Radio (Nera)	Ned	200	07 - 16	
		545	07 - 16	
National Bureau of Standards Central Radio Propagation Laboratory, Boulder, Colorado	NBS	167	12 - 26	
		460	12 - 25	
Cornell University, Solar Radio Observatory, U.S.A.F. Upper Air Research Observatory, Sunspot, New Mexico	Sun	200	16 - 23	

TABULATED QUANTITIES

For details and definitions refer to No. 105 of the Quarterly Bulletin.

1. FLUX

JULY 1954

Date	CAV	CAV	SYD	COR	TOK	NED	SUN	NBS	NED	SYD	SYD	OTT	NAG	SYD
	81	175	200	200	200	200	200	460	545	600	1200	2800	3750	9400
1	1.0	6	-	11	7	8	-	-	22	13	-	68	77	235
2	1.1	5	-	11	7	8	-	-	22	-	-	64	77	329
3	1.0	5	-	11	6	8	-	-	21	-	-	66	77	-
4	-	5	-	-	6	-	-	-	-	-	-	67	78	-
5	-	5	-	-	6	9	-	-	22	17	-	68	78	328
6	-	5	-	11	6	9	-	-	23	-	-	68	78	290
7	-	-	-	11	6	8	-	-	24	-	-	78	78	311
8	-	-	-	11	6	9	-	-	24	-	-	67	78	357
9	-	-	-	11	7	8	-	-	23	-	-	67	78	-
10	-	-	-	-	6	9	-	-	24	-	-	-	78	-
11	-	-	-	-	6	-	-	-	-	-	-	-	-	-
12	-	5	-	-	6	10	-	-	25	-	-	68	78	-
13	-	5	-	11	7	10	-	-	22	24	-	27	68	79
14	-	5	-	11	7	11	-	-	23	24	-	-	68	78
15	0.9	5	-	11	-	11	10	22	24	-	26	68	78	286
16	1.1	5	-	11	6	9	9	21	23	-	-	66	79	328
17	1.0	5	-	11	7	9	9	21	22	-	-	68	78	-
18	1.1	5	-	11	7	-	9	20	-	-	-	66	-	-
19	1.1	5	-	11	7	9	9	21	23	-	-	67	78	-
20	1.1	5	-	11	6	8	9	21	23	-	-	67	78	-
21	1.0	5	-	11	6	8	9	21	22	11	-	65	78	314
22	1.1	5	-	11	7	8	9	20	23	13	-	67	79	-
23	1.1	5	-	11	6	8	9	20	23	13	-	67	79	-
24	1.0	5	-	11	6	8	9	20	23	-	-	67	79	-
25	1.1	5	-	11	7	-	9	21	-	12	-	66	-	-
26	1.2	5	-	11	6	8	9	20	23	13	-	68	79	-
27	1.1	5	-	11	7	8	9	20	22	13	27	69	79	290
28	1.2	5	-	11	6	8	9	20	22	15	-	68	79	-
29	1.3	5	-	11	7	8	-	20	24	-	-	68	79	224
30	1.1	5	-	11	6	8	9	21	25	13	-	69	81	-
31	1.2	5	-	11	6	8	9	20	24	-	-	-	80	-

AUGUST 1954

Date	CAV	SYD	CAV	SYD	COR	TOK	NED	SUN	NBS	NED	SYD	SYD	OTT	NAG	SYD
	81	93	175	200	200	200	200	200	460	545	600	1200	2800	3750	9400
1	1.1	-	5	-	-	7	-	8	20	-	-	-	70	81	-
2	1.2	-	5	-	-	7	-	8	21	-	12	-	-	82	-
3	1.1	G	5	17	11	7	-	9	21	-	-	-	-	69	82
4	1.0	G	5	16	10	-	8	8	21	26	-	-	-	68	82
5	1.3	G	5	15	11	-	8	9	22	25	14	26	-	69	82
6	1.3	G	5	14	11	-	-	10	22	-	13	-	-	71	82
7	-	-	5	13	10	7	-	8	20	-	-	-	-	71	82
8	-	G	5	13	10	8	7	13	20	25	11	27	71	81	344
9	-	-	5	13	10	8	7	13	20	25	11	27	71	81	-
10	1.1	-	5	14	11	7	7	9	21	25	-	-	-	73	85
11	1.2	G	5	15	11	7	7	9	21	25	15	29	71	84	323
12	1.1	-	5	15	11	7	8	-	20	25	12	-	-	71	85
13	1.0	-	5	15	11	7	8	-	21	26	14	-	-	70	82
14	1.0	-	-	14	11	8	8	-	21	25	-	-	-	-	-
15	1.0	-	-	15	-	8	-	9	20	-	-	-	-	71	-
16	1.1	-	5	14	-	8	8	8	21	26	14	-	-	70	-
17	1.0	-	5	14	-	8	8	9	21	26	-	-	-	68	81
18	1.1	G	5	13	-	8	8	9	21	26	-	-	-	69	81
19	1.0	G	5	13	11	-	8	-	20	25	2	-	-	67	80
20	1.2	-	5	19	10	8	7	-	21	24	16	28	69	79	264
21	1.1	-	5	16	10	8	7	-	20	24	-	-	-	81	-
22	1.1	-	5	14	11	8	-	8	20	-	-	-	-	70	-
23	1.2	-	6	15	24	8	14	22	21	25	19	30	-	72	84
24	1.0	-	5	16	16	11	10	11	20	25	-	-	-	72	84
25	0.9	-	5	20	16	8	9	7	19	25	-	-	-	72	82
26	-	-	5	18	10	8	8	8	20	25	14	26	72	80	-
27	-	-	5	18	10	7	8	8	20	25	14	-	70	81	-
28	-	-	5	19	10	7	8	7	20	25	-	-	-	81	-
29	-	-	5	19	10	7	8	7	20	25	-	-	-	68	80
30	-	-	5	18	11	8	8	8	21	24	16	32	69	80	311
31	-	-	5	20	11	8	8	8	20	23	-	-	68	78	-

1. FLUX

SEPTEMBER 1954

Mc/s	SYD	CAV	SYD	CAV	SYD	COR	TOK	NED	SUN	NBS	NED	SYD	SYD	OTT	NAG
	62	81	98	175	200	200	200	200	200	460	545	600	1200	2800	3750
Date															
1	-	1.1	-	5	16	10	7	8	9	21	25	-	-	69	79
2	-	1.0	-	5	19	10	7	9	7	22	24	16	-	69	80
3	-	1.1	-	5	14	10	8	9	7	22	25	-	-	73	80
4	-	1.2	-	-	14,-	10	7	9	8	21	24	-	-	-	80
5	-	1.0	-	-	-	10	7	-	7	21	-	-	-	70	-
6	-	1.0	-	-	17	-	7	-	8	20	-	-	-	71	82
7	G	1.1	G	-	13,-	10	7	-	8	22	-	11	-	68	82
8	-	1.2	-	5	-	10	7	-	7	22	-	-	-	70	81
9	G	1.1	G	5	-	11	7	-	10	21	-	-	-	72	81
10	G	1.0	G	5	-	11	7	8	9	22	25	-	-	71	80
11	-	1.0	-	5	-	-	7	8	7	22	25	-	-	-	81
12	-	0.9	-	5	-	-	-	-	7	21	-	-	-	72	81
13	G	1.0	G	5	-	-	7	8	8	22	26	-	-	68	81
14	G	0.9	G	5	-	-	7	8	8	22	25	-	-	71	82
15	G	-	G	5	-13	-	7	8	7	21	24	15	31	70	82
16	G	-	G	-	13,-	-	8	8	8	23	25	13	30	70	81
17	G	-	G	-	-	-	7	8	8	23	24	14	31	72	81
18	-	1.0	-	-	-	-	7	-	8	22	25	-	-	-	82
19	-	1.2	-	-	-	-	8	-	-	21	-	-	-	-	81
20	G	1.0	G	-	-16	10	8	-	-	23	25	14	-	73	81
21	G	0.9	G	-	18	10	-	9	-	22	25	12	-	71	82
22	G	1.0	G	-	17	10	-	9	-	21	25	13	-	71	82
23	G	0.8	G	-	17	11	7	9	-	22	-	16	-	73	82
24	G	1.1	G	-	16	11	7	9	-	23	24	16	31	72	82
25	-	1.2	-	-	18	11	-	9	-	22	23	-	-	-	82
26	-	1.0	G	-	15	11	-	-	-	21	-	-	-	71	82
27	G	1.1	G	-	18	11	9	-	10	-	24	17	32	73	83
28	G	1.0	G	-	18	10	-	-	9	22	26	14	32	73	83
29	G	1.0	G	-	19,-	10	8	-	10	22	26	14	31	74	84
30	G	1.2	G	-	-	10	8	-	10	-	25	14	30	76	85

Daily medians of radio-noise flux received from the sun in units of 10^{-22} watts metre⁻²(e/s)⁻¹

G = median level below threshold (6 units at 62 Mc/s, 8 units at 98 Mc/s)

Sydney 62 Mc/s, and Sydney 98 Mc/s - G for the whole quarter

Two values are given, where these differ significantly, for the two Eastern observing periods (i.e. before sunset and after sunrise) in one day U.T.

2. POLARISATION

No polarisation measurements were taken during the third quarter 1954.

4. OUTSTANDING OCCURRENCES

Station and frequency	Date 1954	Starting time U.T.	Duration Minutes	Type	Maximum intensity 10^{-21} w m ⁻² (e/s) ⁻¹		Polarisation	Remarks
					Inst.	Smooth		
Ned 200	July 15	0716	2.3	SD	18.0	8.5		
Cav 175	19	1116	1.0	SD	5.0	3.5		
Cav 175	24	1123	1.5	SD	2.2	1.6		
NBS 460	25	1808	4.2	CD	4.5	0.5		
NBS 460	25	1823	1.5	CD	2.3	0.5		
Cav 175	31	1141	1.0	SD	1.7	0.8		
NBS 460	Aug. 6	1243	9.3	CE	5.5	0.3		
Cor 200	6	1312	0.8	CD	5.7	4.9		
Ned 545	9	1305	4.3	CD	3.5	-		
NBS 460	9	1305	8.1	CE	7.0	1.1		
Ned 200	9	1306	1.4	SD	-	2.1		
NBS 460	9	1430	21.0	CE	5.7	0.6		
Ott 2800	9	2145	1.5	SD	-	4.8		
NBS 460	10	2306	10.0	CE	>37.0	>2.8		
NBS 460	13	1850	6.0	CE	>37.0	>3.0		
Cav 81	17	1154	2.5	SD	0.5	0.3		
Cav 175	17	1154	2.0	SD	1.6	0.7		
Tok 60	23	0314	0.2	SD	10.0	-		
Tok 100	23	0314	0.2	SD	15.0	-		
Cav 81	23	1257	1.5	SD	0.4	0.2		
Ott 2800	23	1323	5.0	SD	-	1.5		
NBS 460	23	1324	35.3	CE	5.0	1.4		
Nag 3750	24	0240	1.0	SD	-	1.0		
Nag 3750	26	0434	3.0	SD	-	1.0		
Syd 200	26	0457	22.0	CD	49.0	25.0		
Syd 1200	26	0439	17.0	CD	2.0	2.0		
Syd 98	26	0440	16.5	CD	>64.0	34.0		
Nag 3750	26	0440	30.0	CD	-	13.5		
Tok 60	26	0441	31.0	CD	>60.0	>40.0		
Tok 100	26	0441	10.0	CD	30.0	10.0		
Syd 600	26	0441	15.0	CA	3.0	3.0		
Tok 200	26	0448	9.0	CD	120.0	10.0		
Cav 175	27	1454	2.0	SD	2.4	1.6		
Cav 175	29	1153	1.5	SD	1.3	0.5		
NBS 460	31	2429	1.0	SE	2.3	0.4		
NBS 460	Sept. 3	1834	1.9	CD	52.0	3.3		
Cav 81	24	1410	2.0	SD	0.4	0.2		
Cav 81	25	1036	1.0	SD	0.5	0.2		

3. VARIABILITY

Daily indices on a scale 0 - 3 of the variability of the solar noise

Mo/s	JULY 1954															AUGUST 1954										SEPTEMBER 1954												
	TOK	SYD	CAV	SYD	TOK	NBS	CAV	SYD	COR	TOK	NED	SUN	NBS	NED	TOK	CAV	SYD	TOK	CAV	SYD	COR	TOK	NED	SUN	NBS	NED	SYD	CAV	SYD	TOK	CAV	SYD	COR	TOK	NED	SUN	NBS	NED
	60	62	81	98	100	167	175	200	200	200	200	200	460	545	60	81	98	100	175	200	200	200	200	200	460	545	62	81	98	100	175	200	200	200	200	200	460	545
Date	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Two values are given, where these differ significantly, for the two Eastern observing periods (i.e. before sunset and after sunrise) in one day U.T.

IV. SOLAR RADIO NOISE DATA

CO-OPERATING OBSERVATORIES

Details relating to the contributors to the fourth quarter of 1954 are as follows:-

<u>OBSERVING STATION</u>	<u>ABBREVIATION</u>	<u>FREQUENCIES USED</u>	<u>NORMAL OBSERVING PERIOD</u>
		Mc/s	(Hours U.T.)
Cavendish Laboratory, Cambridge, England	Cav	81	10 - 15
		175	10 - 15
Radiophysics Laboratory, Sydney, Australia	Syd	62	20 - 08
		98	20 - 08
		200	20 - 08
		600	20 - 08
		1200	20 - 08
National Research Council, Ottawa, Canada	Ott	2800	00 - 06
			12 - 24
Cornell University, Ithaca, N.Y., U.S.A.	Cor	200	13 - 20
Tokyo Astronomical Observatory, Mitaka, Tokyo	Tok	60	00 - 06
		100	00 - 06
		200	00 - 06
Research Institute of Atmospheres, Nagoya University, Toyokawa, Japan	Nag	3750	00 - 08
Observing Station Nederhorst, Den Berg - Radio (Nera)	Ned	200	07 - 16
		545	07 - 16
National Bureau of Standards Central Radio Propagation Laboratory, Boulder, Colorado	NBS	460	12 - 25
Cornell University, Solar Radio Observatory, U.S.A.F. Upper Air Research Observatory, Sunspot, New Mexico	Sun	200	16 - 23

TABLED QUANTITIES

For details and definitions refer to No. 105 of the Quarterly Bulletin.

CORRECTIONS

1. FLUX The following approximate corrections seem indicated by a smooth spectrum drawn through yearly means of monthly minima.

Station and Frequency	Correction Factor	Period in 1954
Ned 140	0.8	Jan.-May
Cav 175	1.2	Year
Syd 200	0.7	Year
Cor 200	0.8	Year
Tok 200	1.2	Year
Ned 545	0.8	May-Dec.
Syd 600	1.3	Jan.-Apr., Oct.-Dec.
	1.8	May-Sept.
Syd 1200	1.2	Year

The relative readings from Cor 200 have been multiplied by 7.1 throughout 1954, those from Sun 200 from July to Dec.

4. OUTSTANDING OCCURRENCES The relative readings from Cor 200 have been multiplied by 0.71 throughout 1954, those from Sun 200 from July to Dec. The starting time for Ott 2800 on August 9th. should be 2154, not 2145.

1. FLUX

Daily medians of radio noise flux received from the sun in units of 10^{-22} watts metre⁻² (s/s)⁻¹

OCTOBER 1954

Date	QAV	QAV	SYD	COR	TOK	NED	SUN	NBS	NED	SYD	SYD	OTT	NAG	SYD
	81	175	200	200	200	200	200	460	545	600	1200	2800	3750	9400
1	1.0	-	-	10	8	-	10	23	26	19	31	76	85	273
2	1.1	6	-	10	-	-	9	24	26	-	-	-	86	-
3	1.1	-	-	10	-	-	10	22	-	-	-	69	88	-
4	2.0	5	18	10	8	-	10	23	26	-	-	76	88	-
5	1.5	5	18	-	9	-	10	23	26	-	30	78	89	319
6	1.2	5	16	10	8	8	9	23	26	-	29	79	86	299
7	1.1	5	17	10	8	8	10	23	24	-	29	77	86	-
8	1.4	5	19	10	8	8	9	23	26	-	26	78	85	-
9	1.6	5	18	11	8	8	10	23	26	-	-	77	86	-
10	1.2	5	16	11	8	-	7	23	-	-	-	-	85	-
11	1.1	5	19	11	-	8	-	23	26	24	32	-	86	-
12	-	5	18	11	8	8	-	23	26	24	33	75	87	-
13	-	5	18	11	7	8	-	22	25	20	28	77	87	-
14	1.4	5	16	-	7	8	-	23	27	24	31	78	86	-
15	-	5	19	11	7	8	-	22	27	27	39	76	87	-
16	-	5	15	-	7	8	-	22	27	-	-	-	87	-
17	-	5	18	-	7	-	9	-	-	-	-	78	-	-
18	1.1	5	16	-	7	8	11	23	26	21	32	77	85	-
19	1.4	5	17	11	7	8	9	22	27	28	28	76	87	268
20	1.6	5	17	11	7	8	9	22	27	18	33	77	84	335
21	1.7	5	16	11	7	-	11	21	27	21	30	74	85	-
22	1.5	5	18	11	7	8	10	23	28	25	32	74	85	220
23	1.5	5	19	11	7	8	-	22	28	-	-	-	-	-
24	1.3	5	20	11	-	-	-	21	-	-	-	74	-	-
25	1.6	5	19	-	7	8	-	21	27	-	34	75	83	278
26	1.6	5	18	-	7	8	-	-	27	20	33	75	84	-
27	1.3	5	19	-	7	8	-	23	27	19	26	72	83	-
28	1.4	5	19	-	7	8	-	22	27	-	-	74	83	-
29	1.3	5	18	10	7	8	-	23	27	20	31	72	83	-
30	1.4	5	16	11	7	8	-	23	27	-	-	-	83	-
31	1.4	5	-	11	7	-	-	22	-	-	-	73	84	-

0 = median level below threshold (6 units at 62 Mc/s, 8 units at 98 Mc/s)

Sydney 62 Mc/s, and Sydney 98 Mc/s - 0 for the whole month

Two values are given, where these differ significantly, for the two Eastern observing periods (i.e. before sunset and after sunrise) in one day U.T.

1. FLUX

NOVEMBER 1954

Mo/s	CAV	CAV	SYD	COB	TOK	NED	SUN	NBS	NED	SYD	SYD	OTT	LAG
	81	175	200	200	200	200	200	460	545	600	1200	2800	3750
Date													
1	1.3	5	18	11	7	8	-	22	27	20	34	74	82
2	1.2	5	17	10	7	6	6	22	27	19	31	74	82
3	1.4	5	17	11	7	8	6	23	28	-	-	66	81
4	1.3	5	17	11	7	8	-	22	28	18	-	33	71
5	1.2	5	20	10	8	-	5	-	28	-	29	73	82
6	1.0	5	-	11	7	8	5	23	29	-	-	-	82
7	1.2	5	-	11	8	-	7	23	-	-	-	-	-
8	1.2	5	-	11	8	8	6	24	29	-	-	77	85
9	1.4	5	16	16	8	9	10	25	30	25	30	81	85
10	1.3	5	-	14	8	11	10	24	29	26	32	84	91
11	1.3	5	-	17	-	11	12	23	30	25	36	87	91
12	1.3	5	-	17	11	12	-	24	30	25	31	83	93
13	1.4	5	-	13	11	9	-	24	29	-	-	-	93
14	1.2	5	-	12	9	-	11	24	-	-	-	-	-
15	1.1	5	-	12	9	9	10	23	29	21	37	80	91
16	1.0	5	16	12	11	9	9	23	29	20	30	77	89
17	1.3	5	16	10	12	-	9	22	28	19	35	77	88
18	1.2	5	14	11	9	8	7	22	28	21	31	76	84
19	1.1	5	15	10	-	9	11	22	28	27	-	75	84
20	1.0	5	12	10	8	8	10	22	27	-	-	-	84
21	1.2	5	-	9	-	-	10	24	-	-	-	72	-
22	1.0	5	-	15	9	8	-	10	24	19	35	72	83
23	1.2	5	-	15	9	-	-	27	29	-	-	75	83
24	1.2	5	-	10	-	-	8	10	22	14	28	75	84
25	1.0	5	-	14	-	-	8	11	21	27	-	74	84
26	1.1	5	12	10	7	9	9	22	27	21	-	72	84
27	1.3	5	-	10	-	8	-	21	27	-	-	-	83
28	1.1	5	-	10	-	-	-	21	-	-	-	-	-
29	1.2	5	13	10	8	-	-	22	27	-	31	72	84
30	1.3	5	14	10	7	9	-	23	27	21	34	76	85

DECEMBER 1954

Mo/s	CAV	CAV	SYD	COB	TOK	NED	SUN	NBS	NED	SYD	SYD	OTT	LAG
	81	175	200	200	200	200	200	460	545	600	1200	2800	3750
Date													
1	1.1	-	13	10	7	8	12	23	28	17	-	80	86
2	1.0	5	14	-	7	9	12	22	28	19	31	79	87
3	1.2	5	12	-	7	9	12	23	30	-	30	77	86
4	0.9	5	-	10	7	9	13	23	30	-	-	78	86
5	1.2	5	-	10	-	-	11	-	-	-	-	-	86
6	1.0	5	15	10	-	9	11	23	29	-	28	75	84
7	-	-	14	10	8	9	-	23	-	-	35	76	84
8	1.1	5	-	10	7	9	-	23	29	-	29	75	85
9	0.9	5	-	10	7	10	9	23	28	-	-	77	85
10	0.9	5	-	10	7	10	-	23	28	-	26	74	84
11	0.9	5	-	10	7	10	15	22	28	-	-	-	84
12	1.0	5	-	10	7	-	12	23	-	-	-	77	85
13	1.0	5	-	10	7	10	11	23	29	-	33	76	86
14	1.1	5	-	10	8	10	10	24	-	-	31	78	85
15	1.2	5	10	12	-	9	12	25	30	-	35	84	86
16	1.3	12	16	58	20	40	57	30	34	-	-	85	93
17	1.0	12	13	17	16	25	12	25	33	-	-	81	93
18	0.9	21	9	21	9	9	21	24	29	-	-	-	-
19	0.8	4	6	15	13	-	12	23	-	-	-	82	93
20	-	-	15	16	14	11	11	23	29	-	36	81	92
21	1.0	5	15	9	7	9	9	22	28	-	34	79	89
22	0.9	5	13	8	7	8	8	22	27	20	31	79	87
23	0.9	5	9	13	7	-	-	24	-	-	-	80	87
24	1.2	5	10	13	-	8	12	22	27	-	-	80	87
25	0.8	5	10	-	-	-	11	22	-	-	-	-	85
26	1.0	5	10	-	8	-	10	-	-	-	-	78	84
27	0.8	5	10	-	8	-	23	26	-	-	-	76	84
28	1.0	5	-	12	-	8	14	22	26	-	-	-	-
29	0.9	5	14	15	9	9	19	25	-	18	-	77	83
30	0.8	5	24	20	9	14	18	23	28	-	-	80	90
31	1.4	10	-	46	9	30	46	22	28	-	-	83	91

2. POLARISATION

No polarisation measurements were taken during this quarter.

4. OUTSTANDING OCCURRENCES

Station and frequency	Date 1954	Starting time	Duration	Type	Maximum intensity		Polarisation	Remarks
					Inst.	Smooth		
Mo/s		U.T.	Minutes		$10^{-21} \text{ W m}^{-2} (\text{c/s})^{-1}$			
NBS 460	Oct 1	1537	9.0	CD	12.0	2.9		
NBS 200	15	1540	3.0	CD	8.0	1.5		
NBS 200	16	1511	4.2	CD	4.9	2.5		
Cav 175	16	1246	0.5	SD	1.4	0.3		
NBS 200	16	1336	0.7	SD	5.0	1.5		
NBS 200	16	1437	2.0	SD	7.5	2.5		
NBS 460	24	2046	2.0	CD	6.4	1.7		
Cav 175	27	1115	1.5	SD	1.7	0.5		
NBS 200	Nov 9	1414	0.6	SD	-	15.0		
Cav 81	10	1024	0.5	SD	0.3	0.1		
Cav 81	10	1049	0.5	SD	0.3	0.1		
NBS 460	10	1911	0.8	SD	5.7	0.9		
NBS 200	10	1944	0.5	CD	>1.9	-		
OTT 2800	12	1930	7.5	CD	-	0.6		
NBS 460	20	2059	1.0	CD	16.0	2.3		
Cav 175	Dec 24	1154	1.0	SD	2.5	1.5		
Cav 175	6	1222	3.0	SD	2.1	0.5		
Cav 81	9	1316	1.0	SD	0.5	0.2		
Cav 81	14	1242	3.0	SD	0.8	0.4		
NBS 460	15	1804	53.0	M	5.0	0.6		
SYD 98	16	0420	115.0	CD	75.0	-		
Cav 81	16	1430	2.0	CA	6.0	4.0		
NBS 460	16	1915	186.0	CA	5.5	0.5		
SYD 62	17	2149	0.8	CD	69.0	39.0		
SYD 62	18	0225	0.3	SD	33.0	20.0		
NBS 460	18	1935	1.0	SD	5.1	0.8		
NBS 460	19	1757	36.0	M	9.8	1.2		
Cav 175	22	1130	1.5	SD	1.3	0.5		
Cav 175	28	1201	1.0	SD	1.0	0.4		
NBS 460	29	2106	0.5	SD	8.2	0.2		
Cav 81	30	1228	1.0	SD	0.3	0.1		

3. VARIABILITY

Daily indices on a scale 0 - 3 of the variability of the solar noise

Mo/s	OCTOBER 1954													NOVEMBER 1954										DECEMBER 1954									
	SYD	CAV	SYD	TOK	CAV	SYD	COR	TOK	NED	SUN	NBS	NED	CAV	TOK	CAV	SYD	COR	TOK	NED	SUN	NBS	NED	CAV	TOK	CAV	SYD	COR	TOK	NED	SUN	NBS	NED	
	62	81	98	100	175	200	200	200	200	200	460	545	81	100	175	200	200	200	200	200	200	460	545	81	100	175	200	200	200	200	200	460	545
Date																																	
1	0	0	0	0	-	-	0	0	-	0	2	0	0	-	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0
2	-	0	0	0	-	-	0	0	-	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	-	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	-	0	0	0	1	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2	2
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Two values are given, where these differ significantly, for the two Eastern observing periods (i.e. before sunset and after sunrise) in one day U.T.