IV. SOLAR RADIO NOISE DATA

CO-OPERATING OBSERVATORIES

Details relating to the contributors to the first quarter of 1952 are as follows:-

OBSERVING STATION	ABBREVIATION	FREQUENCIES USED Mc/s	NORMAL OBSERVING PERIOD (Hours U.T.)
Commonwealth Observatory, Canberra, Australia	Can	200	21 - 06
Cavendish Laboratory, Cambridge, England	Cav	81 175	10 - 15 10 - 15
Radiophysics Laboratory, Sydney, Australia	Syd	62 98 600 1200 3000 9400	19 - 07 19 - 07 20 - 06 20 - 06 00 - 06 00 - 06
National Research Council, Ottawa, Canada	Ott	2800	14 - 23
Laboratoire de Physique, Marcoussis, France	Mar	169	11 - 13
Cornell University, Ithaca, N.Y., U.S.A.	Cor	200	14 - 20
Tokyo Astronomical Observatory, Mitaka, Tokyo	Tok	60 100 200	00 - 08 00 - 08 00 - 08
Radio Astronomical Observatory, Osaka City University, Osaka, Japan	Osa	3260	23 - 08
Research Institute of Atmospherics, Nagoya University, Toyokawa, Japan	Nag	3750	23 - 08
Observing Station Nederhorst, Den Berg - Radio (Nera)	Ned	140 200	08 - 16 08 - 16

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 1952

	SYD	CAV	SYD	NED	MAR	CAV	CAN	COR	TOK	NED	SYD	SYD	OTT	SYD	OSA	NAG	SYD
Mc/s	62	81	98	140	169	175	200	200	200	200	600	1200	2800	3000	3260	3750	9400
Date 1	G	-	G	-	-	-	6	-	-	-	22	37	-	-	-	110	-
2	G	-	G	22	3	-	5	7	G	8	20	-	82	113	-	106	362
3	G	-	G	20	-	-	4	7	G	9	23	34	77	-	-	102	-
4	G	1	G	20	3	5	3	7	G	8	24	37	77	104	-	98	346
5	G	1	G	19	3	5	-	7	-	8	22	34	-	-	120	96	-
6	G	1	G	-	3	4	5	8	-	-	19	35	-	-	-	-	-
7	G	1	G	18	3	4	6	7	G	9	19	30	77	-	118	98	-
8	G	1	G	18	2	5	6	6	G	7	21	30	84	-	124	100	-
9	G	1	G	17	2	4	8	-	G	10	-	-	90	-	132	108	-
10	G	1	G	18	-	5	8	10	G	9	-	-	96	-	148	116	-
11	G	1	G	34	-	5	10	12	G	10	22	36	97	-	148	120	-
12	14	12	130	112	-	34	25	43	-	23	19	34	-	-	148	118	-
13	23	120	475	-	-	50	46	66	24	-	23	39	-	-	-	120	-
14	>G	17	120	65	-	9	28	22	16	14	-	37	97	-	160	118	-
15	>G	5	100	28	-	9	38	34	-	12	22	43	96	-	-	120	-
16	>12	4	G	14	-	7	27	24	30	18	-	40	84	-	148	116	-
17	>9	2	G	15	-	7	13	19	12	12	24	40	86	-	140	112	-
18	G	2	>G	13	-	5	12	11	15	11	22	41	80	97	136	112	335
19	G	1	G	11	-	6	7	-	15	10	21	41	-	-	132	106	-
20	G	2	G	-	-	6	9	11	G	-	21	-	-	-	-	-	-
21	G	2	G	13	-	-	8	9	G	8	-	-	82	101	-	106	375
22	G	2	G	12	-	6	9	10	G	11	23	32	77	-	116	102	-
23	G	2	G	11	-	6	9	9	-	9	21	33	96	96	116	98	382
24	G	-	G	11	-	5	8	8	G	10	20	33	77	-	-	98	-
25	G	3	G	16	-	-	7	12	G	9	-	-	75	116	124	104	423
26	G	2	G	17	-	8	-	14	G	9	19	32	-	-	120	102	-
27	-	2	-	-	-	6	9	11	G	-	-	-	-	-	-	-	-
28	-	1	-	10	-	5	8	10	G	7	22	36	75	-	132	98	-
29	G	-	G	9	-	6	7	7	G	7	-	41	73	96	116	96	423
30	G	1	G	10	-	6	6	7	G	7	23	39	73	74	114	96	340
31	G	1	G	10	-	5	7	7	G	8	-	-	71	-	112	92	-

FEBRUARY 1952

	CAV	NED	MAR	CAV	CAN	COR	TOK	NED	SYD	SYD	OTT	SYD	OSA	NAG	SYD
Mc/s	81	140	169	175	200	200	200	200	600	1200	2800	3000	3260	3750	9400
Date 1	1	7	-	5	7	8	-	7	17	-	75	86	114	92	293
2	1	8	-	-	6	-	-	6	18	39	-	-	112	90	-
3	1	-	-	-	7	-	-	-	-	-	-	-	-	-	-
4	1	9	-	5	7	-	-	7	-	-	71	102	-	92	384
5	1	10	-	5	6	9	-	7	18	31	77	-	118	96	-
6	1	10	-	5	-	9	-	7	-	33	75	90	121	96	316
7	1	8	-	5	-	8	-	7	18	41	77	-	-	98	-
8	1	9	-	5	-	9	-	7	18	-	77	74	124	96	349
9	-	9	-	5	6	6	8	7	17	38	-	-	-	96	-
10	2	-	-	4	7	8	8	-	18	-	-	-	-	-	-
11	2	9	-	5	8	9	8	7	17	-	77	89	120	96	304
12	-	10	-	6	6	8	-	8	20	-	75	-	124	98	-
13	1	9	-	5	7	8	-	8	19	-	82	95	124	104	342
14	1	9	-	6	7	9	7	8	22	-	84	-	-	108	-
15	1	9	-	5	7	9	8	8	17	32	-	110	132	110	255
16	2	9	4	5	-	10	7	8	18	30	88	-	140	112	-
17	1	-	-	6	-	9	7	-	17	-	-	-	-	-	-
18	1	8	-	6	-	9	7	8	20	-	90	86	140	114	383
19	1	8	-	6	-	9	-	8	20	-	84	-	134	108	-
20	1	8	-	5	-	10	7	8	19	-	77	108	132	104	342
21	1	9	3	6	-	9	-	8	19	-	75	-	-	102	-
22	1	9	4	6	-	9	7	7	-	-	70	94	118	94	351
23	1	9	3	6	-	9	7	7	18	32	-	84	112	94	344
24	1	-	4	5	-	9	8	-	18	29	70	77	-	-	309
25	1	6	4	6	-	9	8	7	16	38	69	86	112	90	312
26	1	8	3	7	-	7	7	7	14	29	64	78	108	88	336
27	1	8	3	6	-	8	7	7	15	29	62	76	106	86	377
28	1	8	4	5	-	9	-	7	17	26	62	-	100	84	-
29	1	8	4	6	-	9	8	6	16	-	60	-	-	84	322
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MARCH 1952

	SYD	CAV	SYD	NED	MAR	CAV	COR	TOK	NED	SYD	SYD	OTT	SYD	OSA	NAG	SYD
Mc/s	62	81	98	140	169	175	200	200	200	600	1200	2800	3000	3260	3750	9400
Date 1	G	1	G	8	3	6	7	6	6	16	26	-	-	100	84	-
2	G	1	G	-	4	7	7	9	-	15	26	-	-	-	-	-
3	G	1	G	8	3	6	8	8	6	16	25	61	82	100	84	320
4	G	1	G	8	3	6	9	7	6	18	29	60	-	100	84	-
5	G	1	G	8	3	6	8	8	6	20	31	65	84	104	86	362
6	G	1	G	8	3	6	8	7	6	19	29	65	-	110	88	-
7	G	1	G	8	3	6	7	7	6	20	34	65	75	-	88	245
8	G	1	G	8	3	6	8	-	6	19	37	-	-	110	90	-
9	G	1	G	-	4	6	9	9	-	20	30	-	-	-	-	-
10	G	1	G	8	4	6	8	8	7	20	30	70	86	112	92	307
11	G	1	G	8	4	6	8	9	6	20	30	69	-	114	94	-
12	G	1	G	8	3	7	6	8	6	20	28	71	102	-	94	302
13	G	1	G	8	4	7	7	11	6	20	29	75	-	-	94	-
14	G	1	G	7	4	7	8	7	7	22	28	75	99	116	96	313
15	-	1	-	8	4	7	8	8	7	20	30	-	-	-	94	-
16	-	1	-	-	4	6	8	7	-	22	30	-	-	-	-	314
17	G	1	G	7	3	6	8	8	7	19	-	69	94	106	90	-
18	G	1	G	8	3	6	-	8	7	20	28	69	-	108	90	-
19	G	1	G	8	4	7	-	7	6	20	27	67	84	-	90	293
20	G	1	G	7	3	7	-	8	6	20	25	67	-	100	88	-
21	G	1	G	7	3	6	-	7	6	21	25	67	90	-	-	235
22	G	1	G	7	4	6	-	7	7	18	-	-	-	98	84	-
23	G	1	G	-	3	7	-	8	-	21	24	-	-	-	-	-
24	G	1	G	7	3	6	-	7	6	20	24	65	77	-	84	289
25	G	-	G	7	3	6	-	6	6	20	25	65	-	96	84	-
26	G	1	G	-	3	5	-	7	6	20	24	65	112	100	86	321
27	G	1	G	7	3	5	-	7	6	21	-	69	-	-	86	-
28	G	1	G	7	3	5	-	7	6	20	31	75	91	-	96	260
29	G	1	G	7	3	5	7	7	6	19	29	-	-	-	96	-
30	G	1	G	-	3	5	7	7	-	-	-	-	-	-	-	-
31	G	1	G	7	3	6	9	6	6	-	-	75	112	-	96	236

G = median level below threshold (6 units at 62 Mc/s, 8 units at 98 Mc/s, and 10 units at 200 Mc/s)

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

2. POLARISATION

Daily medians or means of polarisation sense and percentage

	JANUARY 1952				FEBRUARY 1952			MARCH 1952	
	CAV	SYD	CAV	CAN	CAV	CAV	CAN	CAV	CAV
Mc/s	81	98	175	200	81	175	200	81	175
Date 1	-	-	-	-	0	-	-	0	0
2	-	-	-	-	0	-	-	0	0
3	-	-	-	-	0	-	-	0	0
4	-	-	-	-	0	-	-	0	0
5	-	-	-	-	0	0	-	0	0
6	-	-	-	-	0	0	-	0	0
7	0	-	-	-	0	0	-	0	0
8	0	-	-	-	0	0	-	0	0
9	0	-	-	-	-	0	-	0	0
10	-	-	-	-	0	0	-	0	0
11	0	R69	0	R47	0	-	-	0	0
12	-	R75	-	R45	0	-	-	0	0
13	-	R73	-	R56	0	0	-	0	0
14	LC	R72	-	R53	0	0	-	0	0
15	L20	R65	0	R62	0	0	-	1	0
16	0	-	0	R40	0	0	-	0	0
17	0	R41	-	-	-	-	-	0	0
18	0	R50	0	-	0	0	-	0	0
19	0	-	0	-	0	0	-	0	0
20	0	-	0	-	0	-	-	0	0
21	0	-	-	-	0	0	-	0	0
22	0	-	0	-	0	-	-	0	0
23	0	-	0	-	0	0	-	0	0
24	-	-	0	-	-	-	-	0	0
25	0	-	-	-	0	0	-	-	0
26	0	-	-	-	-	-	-	0	0
27	0	-	-	-	-	0	-	0	0
28	0	-	-	-	-	0	-	0	0
29	0	-	0	-	-	0	-	0	0
30	0	-	0	-	-	-	-	0	-
31	0	-	-	-	-	-	-	0	0

C = 100 percent polarisation

3. VARIABILITY

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

	JANUARY 1952												FEBRUARY 1952										MARCH 1952								
	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	CAN	COR	TOK	NED	TOK	CAV	TOK	NED	MAR	CAV	CAN	COR	TOK	NED	TOK	CAV	TOK	NED	MAR	CAV	COR	TOK	NED
Mc/s	60	62	81	98	100	140	169	175	200	200	200	200	60	81	100	140	169	175	200	200	200	200	60	81	100	140	169	175	200	200	200
Date																															
1	0	-	-	-	0	-	-	-	0	-	0	-	0	0	0	0	-	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	-	-	-	0	0	1	-	0	0	0	0	0	0	0	0	-	-	0	-	0	0	0	0	0	-	0	1	0	0	-
3	0	-	-	-	0	0	-	-	0	0	0	0	0	1	0	-	-	-	0	-	0	-	0	0	0	0	0	1	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	1	0
5	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
6	-	-	0	-	-	-	0	0	0	0	-	-	0	1	0	1	-	0	-	-	-	1	0	0	0	0	0	0	0	0	0
7	0	-	1	-	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
8	0	-	0	-	0	0	0	0	0	0	0	0	0	1	0	0	-	0	-	0	0	0	-	0	-	0	0	0	0	-	0
9	0	-	0	-	0	1	0	0	0	-	0	1	0	-	0	0	-	0	0	0	0	1	0	0	0	-	0	0	0	0	-
10	0	-	-	-	0	0	-	0	0	0	0	1	0	1	0	-	-	0	0	0	0	-	-	0	-	0	0	1	0	-	0
11	0	-	-	0	0	2	-	0	1	2	0	1	0	0	0	1	-	0	1	1	0	1	0	0	0	0	0	0	0	0	0
12	1	1	3	0	0	3	-	2	3	2	1	2	0	-	0	0	-	0	0	1	0	1	0	0	0	0	0	0	0	0	0
13	2	0	3	0	2	-	-	2	2	2	0	-	0	0	0	0	-	0	0	0	0	0	-	0	-	0	0	0	0	-	0
14	2	0	3	0	2	2	-	2	3	2	1	2	0	0	0	0	-	0	0	2	0	0	0	0	0	0	0	0	0	0	0
15	1	0	2	1	2	2	-	1	3	2	0	2	0	0	0	0	-	0	0	0	0	0	0	1	0	0	0	1	0	0	0
16	0	1	2	-	0	1	-	1	3	3	1	3	1	0	1	0	0	0	-	1	1	1	0	0	0	-	0	0	0	0	-
17	2	1	0	0	1	1	-	0	1	2	1	1	0	0	0	-	-	0	-	0	0	-	0	0	0	0	0	0	0	0	0
18	0	-	0	0	0	1	-	0	1	1	1	1	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	-	0	0
19	0	-	1	-	0	1	-	-	0	1	0	1	0	0	0	0	-	0	-	0	0	1	0	0	0	0	0	0	-	0	0
20	0	-	1	-	0	-	-	0	1	2	0	-	0	0	0	0	-	0	-	0	0	1	0	0	0	0	0	0	-	0	0
21	1	-	1	-	1	1	-	-	0	-	0	1	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	0	0
22	0	-	0	-	0	1	-	1	0	0	0	1	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	-	0	0
23	0	-	1	-	0	1	-	1	0	0	0	1	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	0	-	0	-
24	0	-	-	-	0	1	-	1	0	0	0	1	0	0	0	-	0	0	-	0	0	-	0	0	0	0	0	0	-	0	0
25	0	-	2	-	0	2	-	-	0	1	0	1	0	0	0	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
26	1	-	1	-	1	2	-	1	1	2	1	1	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	0	-	0	-
27	0	-	1	-	0	-	-	1	1	2	0	-	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	-	0	0
28	0	-	1	-	0	0	-	1	1	1	0	1	0	0	0	0	0	0	-	0	0	0	0	0	1	0	0	0	-	1	0
29	0	-	-	-	0	0	-	1	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	1	0	0	0	1	1	0
30	0	-	0	-	0	0	-	0	0	1	-	0	-	-	-	-	-	-	-	-	-	-	0	0	0	-	0	0	1	0	-
31	0	-	0	-	0	0	-	1	0	0	0	0	-	-	-	-	-	-	-	-	-	-	0	0	0	1	0	0	0	0	0

4. OUTSTANDING OCCURRENCES

Station and frequency		Date 1952	Starting time	Duration	Type	Maximum intensity		Polar-isation	Other frequencies on which occurrence is observed	Remarks
						Inst.	Smooth			
Mc/s			U.T.	Minutes		$10^{-21} wm^{-2}(c/s)^{-1}$			Mc/s	
Ned	200	Jan 2	0907	1.1	CD	7	2		140	
Ned	140	2	1309	0.8	CD	20	4			
Syd	62	2	2021	6.3	CD	700	72		98, 200	
Syd	98	2	2021	7	CD	462	87	0	62, 200	
Cor	200	2	2021	9	CD	>2	>1		62, 98	
Can	200	2	2021	8	CD	42	14		62, 98	
Ned	200	4	1255	2.9	CD	3	1		140	
Ned	140	4	1255	2.7	CD	5	3		200	
Syd	62	4	2241	0.4	CD	35	16		98	
Syd	98	4	2241	0.3	SD	33	14	-	62	
Tok	60	6	0020	3	CD	6	2			
Ned	140	8	1059	0.6	CD	9	3		200	
Ned	140	9	1122	1.1	CD	19	3			
Osa	3260	10	0449	3	SD		4			
Ott	2800	10	1849	5	SD		2			
Ned	140	11	0907	1.9	CD	10	5			
Ned	140	11	1023	2.3	CD	10	5			
Ned	140	11	1311	4.1	CD	11	7			
Ned	200	11	1505	25.1	M	10	3			
Ned	140	11	1522	1.5	CD	14	6			
Syd	600	12	0540	5	CD	3	1			
Syd	600	12	0722	8	CD	5	2			
Ned	140	12	0829	3.5	CD	16	10			
Ned	140	12	1317	1.9	CD	74	26			
Ned	140	12	1320	3.1	CD	51	20			
Ned	140	12	1336	3.5	CD	80	22			
Ned	200	12	1410	2.7	CD	14	5			
Ned	140	12	1515	3.5	CD	80	35			
Ned	200	12	1518	1.1	CD	14	9			
Tok	60	13	0233	4	CD	10	4			
Tok	60	14	0031	2	CD	>14	14			
Ned	140	14	1317	1.9	CD	35	8			
Ned	140	14	1345	0.8	CD	42	10			
Ott	2800	14	1348	2	SD		1		140, 200	
Ned	140	14	1349	0.8	CD	19	8		2800, 200	

Ned	200	14	1350	1.5	CD	4	2		140, 2800	
Ned	140	14	1452	0.8	CD	22	9			
Ned	140	15	0826	1.3	CD	51	10			
Ned	140	15	1107	1.9	CD	24	7		200	
Ned	140	15	1343	0.8	CD	24	5			
Ned	200	16	1155	0.8	CD	17	6			
Ned	200	16	1216	0.9	CD	>16	6			
Ned	200	16	1428	15	M	35				
Ned	200	16	1459	0.9	CD	>40	9			
Ned	140	16	1515	30	M	50	8			
Tok	60	17	0512	5	CD	22	6			
Ned	140	17	0845	9.2	M	40	5			
Tok	200	18	0319	5	CD	50	4			
Ned	200	18	0908	0.9	CD	13	2			
Ned	140	18	1001	1.1	CD	4	2			
Syd	62	18	2338	0.3	SD	17	9			
Ned	200	19	1051	0.6	CD	13	3		140	
Syd	62	21	0134	0.3	CD	41	22			
Syd	98	21	0622	8.3	M	62	2	-	62	
Syd	62	21	0622	8.8	M	50	1		98	
Ned	200	21	1109	10	M	4	3			
Ned	140	21	1118	3.5	CD	7	3			
Ott	2800	23	1839	60	CD		1			
Ned	140	25	1436	2.3	CD	86	5		200	
Ned	140	25	1521	1.5	CD	>200				
Ned	140	25	1523	1.9	M	>200			200	
Ned	200	25	1524	2.1	CD	10	2		140	
Syd	62	25	2135	0.4	CD	40	19			
Can	200	25	2142	415	M	>17	-			
Syd	62	25	2223	5.8	CD	>1320	80		98	
Syd	98	25	2224	1.5	M	>1316	188	-	62	
Syd	62	25	2308	7.3	M	165	8			
Syd	98	25	2314	0.4	CD	141	73	-		
Syd	62	26	(0042)	3.3	CD	924	52			
Tok	60	26	0104	2	CD	14	2			
Syd	62	26	0156	2.3	M	38	8		98	
Syd	98	26	0158	0.2	SA	40	16	-	62	
Syd	98	26	0406	9	M	141	9	-		
Syd	62	26	0413	5.5	CD	297	52			
Tok	60	26	0431	6	CD	16	2		100	
Tok	100	26	0432	2	CD	50	4		60	
Ned	140	26	0856	1.7	CD	20	5			
Ned	140	26	1450	55	M	12	6			
Cav	81	28	1105	4	SD	-	1	-	175	
Cav	175	28	1106	3	SD	1	1	-	81	
Cav	175	29	1441	6	CD	-	9	-		
Cor	200	30	1553	1.5	CD	>3	>2			
Cav	81	31	1026	6	SD	-	1	-	175	
Cav	175	31	1026	6	SD	-	2	-	81	
Ned	200	31	1150	9.8	CD	8	1			
Ned	140	Feb 11	1022	1.5	SD	5	2		200	
Ned	200	11	1022	1.1	SD	12	-		140	
Can	200	13	0549	2	CD	10	-			
Ned	140	14	1245	0.8	CD	15	-		200	
Ned	200	14	1245	0.8	CD	15	-		140	
Syd	62	16	0134	1.3	M	211	20		98	
Syd	98	16	0134	1	CD	56	15	-	62	
Tok	60	16	0315	1	SD	26	26		100	
Tok	100	16	0315	1	CD	26	4		60	
Ned	140	16	1525	0.8	CD	98	-		200	
Ned	200	16	1525	0.6	CD	116	-		140	
Cor	200	16	1551	30	CD	>3	>1			
Ott	2800	16	1845	12	CD	-	22			
Ott	2800	20	1416	15	CD	-	1			
Ott	2800	22	1405	20	CD	-	1			
Ott	2800	24	1910	30	CD	-	<1			
Tok	200	Mar 4	0344	2	CD	60	34			
Cor	200	9	1821	1.5	CD	>3	>2			
Syd	62	10	0102	0.6	CD	44	16		98	
Syd	98	10	0102	2	SD	35	18	-	62	
Ott	2800	19	2019	4	SD	-	1			
Cav	175	20	1106	2	SD	1	1	-		
Tok	200	28	0145	0.5	CD	46	6			
Ned	140	28	1029	1.7	M	2	-		200	
Ned	200	28	1029	1.7	M	3	-		140	
Ned	140	29	0856	3.5	CD	>160	-		200	
Ned	200	29	0856	1.3	CD	22	-		140	
Ned	200	29	1328	1.3	CD	2	1		140	
Ned	140	29	1329	1.3	CD	>90	-		200	
Ned	140	31	0854	1.1	CD	14	-			

Canberra, November 1952

S.F. Smerd

IV. SOLAR RADIO NOISE DATA

CO-OPERATING OBSERVATORIES AND TABULATED QUANTITIES

For details and definitions refer to No. 97 of the Quarterly Bulletin; it must be noticed, however, that in the second quarter of 1952 no observations have been received from the Commonwealth Observatory, Canberra, Australia.

1. FLUX

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

APRIL 1952

	SYD	CAV	SYD	NED	MAR	CAV	COR	TOK	NED	SYD	SYD	OTT	SYD	OSA	NAG	SYD
Mc/s	62	81	98	140	169	175	200	200	200	600	1200	2800	3000	3260	3750	9400
Date																
1	G	1	G	7	-	5	8	7	6	21	30	73	-	-	96	-
2	G	1	G	7	3	5	9	8	6	21	32	73	-	114	96	-
3	G	1	G	7	3	5	8	7	6	19	31	71	-	108	94	-
4	G	1	G	7	3	5	8	10	6	21	31	75	-	-	94	-
5	-	1	G	8	3	5	8	6	6	22	35	-	116	112	98	278
6	-	1	G	-	4	4	10	-	-	22	31	-	-	-	-	-
7	G	1	27	22	8	10	14	16	16	22	35	71	86	-	98	251
8	G	1	G	8	3	4	7	7	6	20	34	73	-	-	98	-
9	G	1	G	8	3	-	8	6	6	22	31	75	108	-	98	349
10	G	1	G	8	3	4	10	6	7	19	26	70	-	-	94	-
11	G	1	G	-	3	4	9	7	-	21	28	-	-	106	98	-
12	G	4	G	30	6	14	7	7	11	20	28	75	-	104	98	-
13	G	1	G	-	3	4	8	7	-	20	32	-	-	-	-	-
14	G	1	G	-	3	4	7	7	-	-	28	-	-	104	96	-
15	G	1	G	8	3	4	7	7	6	21	28	67	-	100	94	-
16	G	1	G	8	3	5	8	9	6	21	31	65	88	98	92	292
17	G	1	G	7	3	6	7	9	8	21	29	65	-	-	-	-
18	G	1	G	11	5	9	19	8	10	22	27	67	89	-	-	296
19	G	2	G	30	3	8	21	11	16	21	28	-	-	98	-	-
20	15	1	25	-	3	5	13	29	-	22	31	-	-	-	-	-
21	G	1	G	16	7	10	22	8	15	22	27	75	95	110	94	254
22	G	5	G	27	23	22	21	26	22	25	29	77	-	110	96	-
23	G	1	G	10	3	6	11	14	10	22	30	73	106	-	94	331
24	G	1	G	9	3	6	10	9	9	24	34	75	-	-	-	-
25	G	1	G	8	3	5	8	8	7	24	35	73	-	-	-	-
26	G	1	G	9	2	5	8	8	7	20	-	-	-	-	94	-
27	G	1	G	-	3	6	10	7	-	23	35	-	-	-	-	-
28	G	1	G	9	3	5	9	8	7	25	33	71	92	106	92	314
29	G	1	G	9	3	5	10	8	7	27	36	73	-	-	-	-
30	G	1	G	-	3	6	9	-	-	20	34	71	108	104	92	325
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MAY 1952

	CAV	SYD	NED	MAR	CAV	COR	TOK	NED	SYD	SYD	OTT	SYD	OSA	NAG	SYD
Mc/s	81	98	140	169	175	200	200	200	600	1200	2800	3000	3260	3750	9400
Date															
1	4	G	10	6	10	9	8	9	18	34	71	-	100	-	-
2	1	G	8	3	6	8	8	7	19	35	69	-	102	94	-
3	1	G	8	3	6	8	-	7	19	34	-	-	-	-	-
4	1	G	-	3	4	7	7	-	21	31	-	-	-	-	-
5	1	G	-	3	4	7	7	7	22	36	73	96	100	-	380
6	-	G	9	3	8	10	7	8	22	33	75	-	104	96	-
7	1	G	11	6	12	15	11	17	23	33	75	101	110	102	302
8	1	G	8	3	5	11	16	9	24	33	75	-	108	100	-
9	1	G	8	4	6	10	9	8	22	33	73	96	104	98	264
10	1	G	8	3	4	10	8	8	23	37	69	-	-	92	-
11	1	G	-	2	4	9	7	-	23	37	60	-	-	-	-
12	1	G	7	3	4	9	7	6	-	34	60	84	-	86	226
13	1	G	7	3	4	8	8	6	23	-	62	-	92	86	-
14	1	G	7	3	4	7	8	7	23	34	62	92	90	86	242
15	1	G	7	4	5	8	7	7	22	34	62	-	90	86	-
16	1	-	7	3	5	7	8	7	-	-	65	91	88	-	304
17	1	-	7	3	5	8	6	7	-	-	65	-	86	86	-
18	3	G	-	5	7	-	8	-	19	30	65	72	-	-	285
19	4	{12, 79}	26	6	9	18	10	10	20	30	67	-	90	88	-
20	2	{18, G}	20	9	15	18	10	15	22	36	67	89	-	88	258
21	1	G	53	6	9	16	9	13	24	33	68	-	92	88	-
22	1	G	-	4	6	9	9	-	26	34	69	92	96	92	287
23	1	G	-	4	6	9	9	8	23	32	70	101	-	92	262
24	1	G	7	4	6	10	9	8	20	36	67	-	102	92	-
25	1	G	-	4	6	9	9	-	21	36	-	-	-	-	-
26	1	G	8	5	5	7	-	8	25	35	71	-	96	92	-
27	1	G	7	4	6	7	-	7	25	37	73	96	-	94	325
28	1	G	8	4	6	8	-	7	25	39	77	106	108	100	309
29	1	G	8	4	7	8	-	8	24	34	75	-	110	98	-
30	1	G	8	3	7	9	-	8	25	34	71	90	108	98	291
31	1	G	8	4	7	10	-	7	27	31	71	-	102	94	-

JUNE 1952

	SYD	CAV	SYD	NED	MAR	CAV	COR	TOK	NED	SYD	SYD	OTT	SYD	OSA	NAG	SYD
Mc/s	62	81	98	140	169	175	200	200	200	600	1200	2800	3000	3260	3750	9400
Date																
1	G	1	G	-	4	7	-	-	-	24	32	-	-	-	-	-
2	G	1	G	-	4	5	8	-	-	25	33	65	95	98	92	316
3	G	1	G	8	6	5	8	-	9	22	31	63	-	95	86	-
4	G	1	G	8	4	5	8	-	9	23	31	62	92	92	86	331
5	G	1	G	8	6	5	-	5	9	19	32	62	-	88	86	-
6	G	1	G	8	5	6	-	5	9	20	31	60	94	88	84	356
7	G	1	G	8	5	6	-	5	9	20	30	62	-	93	84	-
8	G	1	G	-	5	6	-	5	-	-	28	60	-	-	-	-
9	G	1	G	8	5	6	-	5	9	20	24	62	86	-	86	334
10	G	1	G	8	4	8	-	5	9	19	24	63	-	95	86	-
11	G	1	G	8	-	8	-	5	8	19	26	60	99	90	86	294
12	G	1	G	8	-	6	-	6	9	21	23	62	-	92	84	-
13	G	1	G	9	4	8	-	5	9	22	26	65	85	95	84	238
14	{18, G}	1	{32, G}	14	5	8	28	11	20	22	30	65	-	95	86	-
15	G	1	G	-	-	6	8	17	-	23	31	69	-	-	-	-
16	G	2	G	9	5	8	-	7	10	23	29	69	-	103	92	384
17	G	1	G	18	5	7	-	7	16	-	-	71	-	110	92	-
18	G	2	G	8	4	7	-	7	11	-	-	73	86	114	92	300
19	G	2	G	12	5	9	10	7	12	23	33	73	-	108	94	-
20	G	1	G	9	4	7	10	6	14	24	-	75	107	116	96	304
21	G	1	G	8	4	7	10	6	12	26	33	77	-	116	96	-
22	G	2	G	-	5	8	9	7	-	-	-	77	-	-	-	-
23	G	10	G	47	25	13	15	7	20	26	35	84	124	-	104	325
24	G	5	{G, 63}	19	5	5	23	8	13	27	38	84	-	127	108	-
25	G	1	{12, G}	11	5	7	10	8	11	27	39	83	123	130	108	313
26	G	140	G	480	80	75	-	7	139	27	37	84	-	119	108	-
27	G	2	G	15	4	12	11	8	16	28	36	91	117	116	108	378
28	G	1	G	10	4	6	13	6	11	26	41	88	116	130	112	387
29	{2450, G}	4	{1071, G}	-	25	26	15	-	-	-	42	90	119	-	-	325
30	G	1	G	12	4	6	16	8	11	-	37	87	118	136	116	389
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Sydney 62 Mc/s, May - G

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 sense and percentage

	APRIL 1952			MAY 1952			JUNE 1952		
	CAV	SYD	CAV	CAV	SYD	CAV	CAV	SYD	CAV
Mc/s	81	98	175	81	98	175	81	98	175
Date									
1	0	-	0	0	-	0	-	-	-
2	0	-	0	0	-	0	0	-	0
3	0	-	0	0	-	0	0	-	0
4	0	-	0	0	-	0	0	-	0
5	0	-	0	0	-	0	0	-	0
6	-	-	-	-	-	0	0	-	-
7	0	L61	-	-	-	L20	0	-	0
8	0	-	0	0	-	0	-	-	0
9	0	-	0	0	-	0	0	-	-
10	0	-	0	0	-	0	0	-	0
11	0	-	0	0	-	0	0	-	0
12	0	-	0	0	-	0	0	-	0
13	-	-	-	0	-	0	0	-	0
14	-	-	-	0	-	0	0	L72	0
15	-	-	-	0	-	0	0	L44	0
16	0	-	0	0	-	0	0	-	0
17	0	-	0	0	-	0	0	-	0
18	0	-	0	-	-	-	L20	-	L20
19	0	-	0	0	{R28, R36}	0	0	-	0
20	0	V	0	0	R39	0	-	-	0
21	0	-	0	0	-	0	-	-	-
22	R50	-	-	0	-	0	-	-	0
23	0	-	L20	0	-	0	L20	-	L20
24	0	-	0	0	-	0	0	R88	0
25	0	-	0	0	-	0	0	R55	0
26	0	-	0	0	-	0	0	-	0
27	0	-	0	0	-	0	0	-	0
28	0	-	0	0	-	0	0	-	0
29	0	-	0	0	-	0	-	L86	-
30	0	-	0	0	-	0	0	-	0
31	-	-	-	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.

3. VARIABILITY

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

	APRIL 1952										
	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	COR	TOK	NED
Mc/s	60	62	81	98	100	140	169	175	200	200	200
Date 1	0	-	0	-	0	0	-	0	0	0	0
2	0	-	0	-	0	0	0	0	0	0	0
3	0	-	0	-	0	0	0	0	0	0	0
4	0	-	0	-	0	0	0	0	0	0	0
5	0	-	0	-	0	0	0	0	0	0	0
6	0	-	0	-	0	-	1	0	1	0	-
7	1	-	1	2	1	2	2	2	2	2	2
8	0	-	0	-	0	0	0	0	0	0	0
9	0	-	0	-	0	0	0	-	0	0	0
10	0	-	0	-	0	0	0	0	0	0	0
11	0	-	0	-	0	-	0	0	0	0	-
12	0	-	2	-	0	2	1	2	0	0	1
13	0	-	2	-	0	-	0	0	0	0	-
14	0	-	0	-	0	-	0	0	0	0	-
15	0	-	0	-	0	0	0	0	0	0	0
16	0	-	0	-	0	0	0	0	0	0	0
17	0	-	0	-	0	0	0	1	0	0	0
18	0	-	1	-	0	1	1	1	3	0	0
19	0	-	1	-	0	2	0	2	3	1	1
20	2	2	1	1	1	-	0	1	3	2	-
21	0	-	0	-	0	1	2	2	2	1	1
22	1	-	3	-	0	1	2	2	2	2	1
23	0	-	1	-	0	1	0	1	2	0	1
24	0	-	1	-	0	1	1	1	1	1	1
25	0	-	1	-	0	0	0	1	0	0	0
26	0	-	0	-	0	0	0	0	0	0	0
27	0	-	0	-	0	-	0	0	2	0	-
28	1	-	0	-	0	0	0	0	0	0	0
29	0	-	0	-	0	0	0	0	0	0	0
30	0	-	0	-	0	-	0	0	0	0	-
31	-	-	-	-	-	-	-	-	-	-	-

	MAY 1952									
	TOK	CAV	SYD	TOK	NED	MAR	CAV	COR	TOK	NED
Mc/s	60	81	98	100	140	169	175	200	200	200
Date 1	0	2	-	0	0	1	2	0	0	0
2	0	0	-	0	0	0	0	0	0	0
3	0	0	-	0	0	0	0	0	0	0
4	0	0	-	0	-	0	0	0	0	-
5	0	0	-	0	0	0	0	0	0	0
6	0	-	-	0	0	2	1	2	0	1
7	0	0	-	0	1	2	1	2	0	1
8	0	0	-	0	0	0	0	2	0	1
9	0	1	-	0	0	1	1	1	0	1
10	0	0	-	0	0	0	0	1	0	1
11	0	0	-	0	-	0	0	0	0	-
12	0	0	-	0	0	0	0	0	0	1
13	0	0	-	0	0	0	0	0	0	1
14	0	0	-	0	0	0	0	0	0	1
15	0	0	-	0	0	0	0	0	0	0
16	0	0	-	0	0	0	0	0	0	1
17	0	0	-	0	0	0	0	0	0	0
18	0	2	-	0	-	1	0	-	0	-
19	0	2	0	0	1	2	1	3	0	1
20	-	1	1	0	1	1	2	2	0	2
21	0	0	-	0	1	1	0	0	0	2
22	0	0	-	0	-	0	0	1	0	-
23	0	0	-	0	-	0	0	1	0	0
24	0	0	-	0	0	0	0	1	0	1
25	0	0	-	0	-	0	-	1	0	-
26	0	0	-	0	0	0	0	0	-	0
27	0	0	-	0	0	0	0	0	-	0
28	0	0	-	0	0	0	0	0	-	0
29	0	0	-	0	0	0	0	0	-	0
30	0	0	-	0	0	0	0	-	-	0
31	0	0	-	0	0	0	0	-	-	0

	JUNE 1952										
	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	COR	TOK	NED
Mc/s	60	62	81	98	100	140	169	175	200	200	200
Date 1	0	-	0	-	0	-	0	0	-	-	-
2	1	-	0	-	0	-	0	0	0	-	-
3	0	-	0	-	0	0	0	0	0	-	0
4	0	-	0	-	0	0	0	0	-	-	0
5	0	-	0	-	0	0	0	0	-	0	0
6	0	-	1	-	0	0	0	1	-	0	0
7	0	-	0	-	0	0	0	0	-	0	0
8	0	-	1	-	0	-	0	0	-	1	-
9	0	-	0	-	0	0	0	0	-	0	0
10	0	-	1	-	0	0	0	1	-	0	0
11	0	-	0	-	0	0	-	1	-	0	0
12	0	-	2	-	0	0	-	2	-	0	0
13	0	-	1	-	0	0	0	1	-	0	0
14	2	1	1	1	1	2	1	2	3	2	2
15	1	-	0	0	0	-	-	1	0	2	-
16	0	0	1	-	0	0	0	2	-	1	1
17	0	-	1	-	0	2	0	1	-	0	2
18	0	-	2	-	0	0	0	1	-	0	0
19	0	-	2	-	0	1	1	2	-	0	1
20	0	-	0	-	0	0	0	0	1	0	1
21	1	-	0	-	1	0	0	0	2	1	1
22	1	-	0	-	0	-	0	0	1	0	-
23	1	-	2	-	0	2	1	2	2	0	2
24	0	-	1	1	0	1	1	2	2	0	1
25	0	-	0	0	0	1	0	0	2	0	1
26	0	-	2	-	0	3	2	2	-	0	3
27	0	-	0	-	0	1	1	1	-	0	1
28	0	-	1	-	0	1	0	0	2	0	1
29	-	2	2	0	-	-	2	2	3	-	-
30	0	-	0	-	0	1	1	0	2	0	1
31	-	-	-	-	-	-	-	-	-	-	-

4. OUTSTANDING OCCURRENCES

Station and frequency		Date 1952	Starting time	Duration	Type	Maximum intensity		Polar-isation	Other frequencies on which occurrence is observed	Remarks
						Inst.	Smooth			
Mc/s			U.t.	Minutes		$10^{-21} wm^{-2}(c/s)^{-1}$			Mc/s	
Syd	62	April 7	0506	0.3	SA	39	19			
Tok	200	7	0607	2	CA	50	8			
Ned	140	7	0819	8.2	M	26	M		200	
Ned	140	7	0930	2.3	M	40	5			
Ned	140	7	0944	1.1	CA	47	7			
Ned	200	7	1415	15	M	22	2			
Nag	3750	9	0120	5	SD	-	<1			
Ott	2800	9	2119	10	SD	-	7			
Syd	98	10	2143	0.6	CD	38	14	-	62	
Syd	62	10	2220	0.2	SD	34	21			
Ned	200	12	0930	180	M	7	4			
Ned	140	12	1000	165	M	19	M			
Nag	3750	14	0032	6	SD	-	<1			
Cav	81	16	1144	2	SD	1	1	-	} 175	
Cav	175	16	1144	1	SD	2	1	-	} 81	
Syd	62	17	0417	0.2	SD	25	13		} 98	
Syd	98	17	0417	0.2	SD	46	21	-	} 62	
Ned	140	17	0923	4.1	CD	7	5		200	
Ned	140	17	0928	1.3	CD	4	2			
Ned	200	18	1216	0.4	SA	6	6		140	
Ned	140	18	1306	21.5	M	26	M			
Ned	140	18	1440	1.1	CA	6	3		200	
Ned	140	19	1312	0.8	CA	>5	3		200	
Ned	140	19	1330	33	M	>10	M			
Cav	81	19	1422	6	CD	-	>1	-		
Ned	200	19	1430	30	M	5	4		140	
Tok	60	20	0228	3	CD	24	5			
Tok	60	20	0422	3	CD	20	5			
Ned	140	21	1532	13.3	M	>150	M		} 200	
Ned	200	21	1532	1.5	CA	>30	-		} 140	
Syd	98	22	0040	1	M	72	12	-		
Syd	98	22	0427	0.2	SA	33	19	-		
Syd	98	22	0535	110	CD	5	5	LH		
Syd	98	22	0542	0.2	SA	46	22	-	62	
Syd	62	22	0608	0.4	CA	1087	445		} 98	
Syd	98	22	0608	0.2	SA	42	21	-	} 62	
Ned	140	22	0813	1.5	CA	>150	-		} 200	
Ned	200	22	0813	0.9	CD	240	-		} 140	
Ned	140	22	1045	4.3	CD	32	10		200	
Ned	140	22	1051	2.7	CD	19	10			
Ned	140	22	1159	46.5	M	55	25			
Ned	200	22	1200	3.5	CD	17	15			
Ned	200	22	1221	24	CD	17	15			
Ned	140	23	1025	5.1	CD	9	4			
Ned	140	23	1129	2.3	CD	>140	-		) 200	

Ned	200	23	1129	1.9	CD	25	-		140	
Ned	200	23	1324	2.7	CD	17	10		140	
Cor	200	23	1617	1.3	CD	>12	>8			
Syd	98	23	2136	1.5	CD	264	75	-	62	
Syd	62	23	2308	7	M	1049	56		98	
Syd	98	23	2308	6	M	360	25	-	62	
Syd	98	24	0216	0.2	SD	112	47	-	62	
Syd	62	24	0217	0.3	CD	1010	395		98	
Syd	98	24	0305	0.5	CD	96	47	-		
Ned	140	24	0857	1.9	M	23	M			
Ned	140	24	0957	11.7	CD	18	4			
Ned	140	24	1108	5.9	CD	>140	>140		200	
Ned	200	May 7	1130	2.3	CA	12	8		140	
Ned	140	7	1141	4.3	CA	>140	-		200	
Ned	140	8	1411	1.3	CD	20	6		200	
Ned	200	8	1439	0.4	CA	7	2		140	
Ned	140	9	1024	1.5	CD	32	15		200	
Ned	140	9	1217	3.9	CD	>5	>5		200	
Ned	140	19	0924	0.8	CD	17	8			
Ott	2800	21	1240	195	CA	-	1		81,140,175,200	
Ned	140	21	1241	26.9	CD	24	20		81,175,200,2800	
Ned	200	21	1245	30	CD	7	6		81,140,175,2800	
Cav	175	21	1249	35	SD	-	3	R20	81,140,200,2800	
Cav	81	21	1250	90	SD	-	2	L100	140,175,200,2800	
Cor	200	21	1250	19	CD	>20	>14		81,140,175;2800	
Syd	62	23	2114	2.8	M	57	3		98,2800	
Syd	98	23	2114	3	M	176	6	-	62,2800	
Ott	2800	23	2114	3	SD	-	1		62,98	
Osa	3260	30	0458	0.2	SD	-	3			
Syd	1200	June 2	0043	2	CD	4	<1			
Tok	60	2	0207	2	CD	11	3			
Ned	140	14	0855	2.3	CA	7	4			
Ned	200	14	0859	3.1	CA	16	7			
Ned	200	14	1130	16.1	CA	>20	-			
Syd	62	14	2325	1.3	CD	350	82			
Tok	60	15	0323	1	CD	11	3			
Tok	60	15	0450	1	CD	3	1			
Tok	60	15	0456	1	CD	7	1			
Syd	98	15	2131	50	CD	26	2	V		
Syd	62	20	2353	0.4	CD	59	22		98	
Syd	98	20	2353	0.2	SD	50	24	-	62	
Tok	60	21	0009	1	SD	14	5		62	
Syd	62	21	0009	0.7	CD	34	15		60	
Syd	98	21	0133	0.2	SD	56	26	-	62	
Tok	100	21	0356	1	CD	5	4		60,62	
Tok	60	21	0357	1	SD	16	13		62,100	
Syd	62	21	0358	0.7	CD	264	112		60,100	
Syd	62	21	2301	0.2	SD	>66	30			
Syd	98	22	2225	0.2	SD	27	14	-		
Syd	62	22	2226	0.5	CD	>66	28			
Nag	3750	23	0249	28	SD	-	1			
Tok	60	23	0255	4	CD	18	13			
Tok	60	23	0321	2	CD	22	16			
Syd	62	23	0358	0.2	SA	52	24			
Ned	200	23	0841	9.8	CA	>100	-		140	
Ned	140	23	1125	62.1	CA	100	15		200	
Ned	200	23	1125	32.7	CA	42	42		140	
Cav	81	23	1350	?	-	-	-		140,2800	
Ned	140	23	1351	10	CA	60	12		81,2800	
Ott	2800	23	1351	12	SD	-	1		81,140	
Ott	2800	23	1438	6	SD	-	1			
Ned	200	23	1517	2.7	CA	10	4			
Ott	2800	23	1958	6	CD	-	>16			
Syd	98	23	2115	125	CD	7	7	RH		
Syd	98	23	2149	0.2	SA	54	26	-		
Ned	140	24	0851	1.5	CD	37	10			
Ned	200	24	0904	1.9	CA	>15	>15			
Ned	140	24	1334	5.9	CD	37	10			
Syd	98	24	2254	0.2	SA	448	187	-		
Syd	62	25	0251	0.2	SD	33	15		98	
Syd	98	25	0251	0.2	SD	52	26	-	62	
Ned	140	25	0957	3.5	CD	>12	5		200	
Ned	200	25	0957	3.9	CA	>5	>5		140	Fade
Ott	2800	25	2150	10	SD	-	6			Fade
Osa	3260	26	0150	1	SD	-	24			
Syd	1200	26	0604	13	CD	6	2			
Syd	98	26	0627	0.8	CD	992	354	-	62	
Ned	140	26	1008	360	M	340	100		200	
Ned	200	27	1230	52.8	CA	85	-			
Cav	175	27	1308	1	SA	3	2	-		
Cav	175	27	1310	1	SA	3	2	-		
Ned	140	27	1315	2.5	CD	>8	5		175	
Cav	175	27	1316	1	SA	-	3	-	140	
Ned	140	27	1318	20.8	CD	11	5			
Ned	140	28	1309	2.3	CD	12	10			
Cav	175	30	1056	3	SD	-	3	-		
Ned	140	30	1530	2.1	CD	10	5		200	
Ned	200	30	1530	15	CA	14	6		140	

Canberra, December 1952

S.F. Smerd

IV. SOLAR RADIO NOISE DATA

CO-OPERATING OBSERVATORIES

Details relating to the contributors to the third quarter of 1952 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	19 - 07
		98	19 - 07
		600	20 - 06
		1200	20 - 06
		3000	00 - 06
		9400	00 - 06
Meudon Observatory, Paris, France	Meu	255	08 - 14
		545	08 - 14
National Research Council, Ottawa, Canada	Ott	2800	14 - 23
Laboratoire de Physique, Marcoussis, France	Mar	169	11 - 13
Cornell University, Ithaca, N.Y., U.S.A.	Cor	200	14 - 20
Tokyo Astronomical Observatory, Mitaka, Tokyo	Tok	60	00 - 08
		100	00 - 08
		200	00 - 08
Radio Astronomical Observatory, Osaka City Unversity, Osaka, Japan	Osa	3260	23 - 08
Research Institute of Atmospherics, Nagoya University, Toyokawa, Japan	Nag	3750	23 - 08
Observing Station Nederhorst, Den Berg - Radio (Nera)	Ned	140	08 - 16
		200	08 - 16

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)$^{-1}$.

CORRECTIONS

1. FLUX

OSA 3260 Feb. 6 read 122 for 121,

TOK	200	April	17	read	8	for	9
"	"	"	25	"	7	"	8
"	"	"	26	"	7	"	8
"	"	"	27	"	6	"	7
"	"	"	28	"	7	"	8
"	"	"	29	"	7	"	8

4. OUTSTANDING OCCURRENCES

Tok	60	Jan. 14	Smooth max.	read	13	for	14
Tok	60	Feb. 16	Starting time	read	0135	for	0315
"	"	" "	Smooth max.	read	5	for	26
Tok	100	Feb. 16	Starting time	read	0135	for	0315

1. FLUX

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

JULY 1952

Mc/s	SYD 62	CAV 81	SYD 98	NED 140	MAR 169	CAV 175	COR 200	TOK 200	NED 200	MEU 255	MEU 545	SYD 600	SYD 1200	OTT 2800	SYD 3000	OSA 3260	NAG 3750	SYD 9400
Date 1	G	25	G	72	4	75	26	10	53	-	20	27	36	84	-	-	106	-
2	G,56	1	G,82	8	3	4	13	7	9	-	20	25	35	80	95	110	102	388
3	G	1	32,G	13	5	8	11	10	14	-	21	23	36	80	101	114	102	348
4	G	1	G	8	3	4	8	6	9	-	20	24	35	75	100	117	98	367
5	G	1	G	8	3	4	8	5	8	-	19	25	35	71	-	106	96	-
6	G	1	G	-	2	4	8	5	-	-	18	23	30	67	-	-	-	-
7	G	1	G	7	3	3	8	5	9	-	20	25	31	67	86	110	88	326
8	G	1	G	7	4	4	10	5	10	-	20	24	29	71	-	110	90	-
9	G	1	G	6	5	3	9	5	8	-	20	-	36	75	90	121	98	242
10	G	1	G,13	8	4	3	9	5	10	-	20	25	35	80	-	-	102	-
11	G	1	G	20	12	-	12	8	21	-	22	-	35	86	99	132	110	330
12	G	-	G,13	15	10	3	10	5	13	-	-	23	-	90	-	152	114	-
13	G	-	G	-	10	4	14	8	-	-	27	24	38	90	-	-	118	-
14	G	-	G	7	3	5	9	9	9	-	26	23	39	90	117	156	118	344
15	G	1	G	6	3	5	8	6	7	-	24	25	37	88	-	147	120	-
16	G	1	G	6	-	5	8	5	6	-	23	26	35	88	115	141	118	304
17	G	1	G	6	4	6	8	5	7	-	23	25	-	86	-	141	110	-
18	G	-	G	6	3	7	9	5	9	-	23	23	33	80	104	136	106	386
19	G	1	G	6	3	6	8	5	7	-	21	22	37	77	-	123	102	-
20	G	-	G	-	3	5	-	5	-	-	21	25	35	73	-	-	-	-
21	G	-	G	7	4	5	-	5	8	-	20	24	34	69	113	110	96	317
22	G	1	G	7	3	5	9	5	9	-	20	25	35	69	-	105	92	-
23	G	1	G	6	3	5	9	5	8	10	20	-	-	65	117	105	90	386
24	G	1	G	6	3	5	9	5	9	10	21	22	-	65	80	105	86	255
25	G	1	G	7	3	-	9	5	9	10	20	21	-	65	78	103	86	326
26	G	1	G	6	3	-	11	5	9	10	20	-	37	65	-	101	86	-
27	G	2	G	-	6	15	18	7	-	14	21	-	-	67	-	-	-	-
28	G	1	G	17	6	18	22	7	25	17	23	23	40	69	86	112	90	338
29	G	1	G	7	3	6	10	5	13	15	26	23	36	67	81	-	92	317
30	G	1	G	6	2	5	10	5	9	17	24	27	35	74	86	117	90	386
31	G	1	G	6	3	-	8	-	8	16	23	26	-	84	91	115	98	326

AUGUST 1952

Mc/s	CAV 81	NED 140	MAR 169	CAV 175	COR 200	TOK 200	NED 200	MEU 255	MEU 545	SYD 600	SYD 1200	OTT 2800	SYD 3000	OSA 3260	NAG 3750	SYD 9400
Date 1	1	5	2	5	8	4	9	16	23	28	36	75	91	123	100	278
2	2	12	5	10	13	4	12	14	22	25	36	73	-	-	96	-
3	1	-	3	5	8	4	-	13	22	28	35	75	-	-	-	-
4	1	6	2	5	9	4	9	12	22	29	35	75	85	105	92	326
5	2	6	3	5	9	4	9	11	21	-	-	72	-	121	94	-
6	1	6	-	5	8	4	9	12	22	-	-	73	63	127	94	344
7	1	6	3	5	8	4	9	11	21	-	-	80	82	110	98	292
8	1	6	2	5	8	5	8	12	22	-	-	80	90	-	102	293
9	1	6	3	5	8	6	8	13	24	20	-	77	81	114	-	240
10	1	-	3	4	8	6	-	12	24	18	34	-	-	-	-	-
11	1	6	2	4	8	6	9	11	23	18	36	72	96	116	96	342
12	1	6	3	5	9	6	9	11	22	16	37	73	-	114	96	-
13	3	19	4	6	9	7	11	12	23	-	-	75	-	110	96	-
14	1	8	-	13	10	6	16	-	-	-	-	75	-	112	-	-
15	1	12	8	12	15	9	15	-	-	17	34	77	84	114	96	284
16	1	8	5	8	8	8	12	-	-	19	-	-	-	121	100	-
17	2	-	4	6	8	7	-	-	-	19	34	73	-	-	-	-
18	1	5	3	5	8	7	9	12	20	21	36	75	105	114	96	295
19	1	5	3	6	8	7	8	13	23	21	36	73	95	112	96	291
20	1	6	2	5	8	6	9	13	25	19	35	73	94	121	96	280
21	1	6	3	5	8	5	9	13	24	22	-	77	-	123	98	-
22	1	6	2	5	8	5	10	13	23	21	32	77	86	-	98	349
23	-	6	2	-	8	6	10	13	23	22	40	84	-	-	104	-
24	1	-	2	5	8	6	-	12	24	23	39	86	-	-	110	-
25	1	6	2	6	9	6	10	14	23	22	40	88	86	-	110	266
26	7	12	3	9	13	5	15	15	23	23	-	97	97	-	116	315
27	1	7	2	6	10	6	10	15	23	25	41	97	115	145	118	346
28	1	13	7	15	30	7	21	24	22	25	42	105	-	-	122	-
29	1	6	4	7	18	10	10	18	22	22	-	105	-	-	126	-
30	3	25	5	11	10	9	22	55	-	21	43	-	-	150	126	-
31	-	-	5	-	14	9	-	20	-	19	44	-	-	-	124	-

SEPTEMBER 1952

Mc/s	CAV 81	SYD 98	NED 140	MAR 169	CAV 175	COR 200	TOK 200	NED 200	MEU 255	MEU 545	SYD 600	SYD 1200	OTT 2800	SYD 3000	OSA 3260	NAG 3750	SYD 9400
Date 1	1	G	7	4	9	14	10	12	58	-	17	39	-	121	145	124	356
2	1	G	6	11	6	16	6	17	14	-	16	42	-	-	137	114	-
3	2	G	7	6	10	11	6	10	12	-	17	42	89	111	134	108	266
4	1	G	6	3	5	10	5	9	12	-	-	-	86	-	125	104	-
5	1	G	6	3	5	9	4	9	12	-	19	42	80	94	121	102	-
6	1	G	6	-	5	8	5	9	12	-	19	39	73	-	123	98	-
7	-	G	-	3	-	8	5	-	-	-	19	37	71	-	-	-	-
8	1	G	5	3	5	8	4	9	12	-	20	35	69	74	110	92	-
9	1	G	6	3	5	8	5	9	12	-	18	36	67	-	-	90	-
10	1	G	6	3	5	8	6	8	14	-	20	37	65	92	104	88	-
11	1	G	6	4	5	8	5	8	12	-	20	36	65	-	-	88	-
12	1	G	6	3	5	8	5	8	13	-	21	36	67	92	101	86	-
13	1	G	6	-	5	8	5	8	12	-	19	35	65	-	99	86	-
14	1	G	-	3	5	9	5	-	-	-	20	35	62	-	-	-	-
15	1	G	5	3	5	8	5	7	12	-	18	34	62	75	99	86	-
16	1	G	6	3	5	8	5	7	12	-	18	32	67	74	101	88	300
17	-	G	6	3	5	8	5	7	13	-	18	31	67	80	107	90	274
18	1	G	6	3	4	8	5	7	12	-	19	32	67	82	110	90	298
19	1	G	6	3	5	8	5	8	12	-	17	33	71	85	-	90	295
20	1	G	6	3	5	8	5	8	12	-	20	34	69	-	101	90	-
21	1	G	-	3	6	11	5	-	14	-	21	37	71	-	-	-	-
22	1	G	7	3	6	11	5	11	12	23	20	35	73	86	110	96	360
23	1	G	7	3	6	11	5	10	13	22	19	37	73	-	-	-	-
24	1	G	7	3	6	11	-	9	14	20	19	36	73	81	106	96	362
25	1	G	7	4	7	14	5	11	15	30	19	37	73	-	108	94	-
26	6	43,G	32	12	25	17	20	16	13	22	16	36	71	95	123	94	362
27	1	G	7	4	9	10	5	10	15	24	19	36	-	96	108	94	333
28	1	G	-	4	6	10	-	-	14	-	18	35	-	92	-	-	315
29	-	G	7	4	6	9	5	10	13	-	18	32	69	89	102	90	330
30	1	G	7	3	6	10	5	10	-	-	19	32	65	-	95	88	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

2. POLARISATION

Daily medians or means of polarisation sense & percentage

	JULY 1952			AUGUST 1952		SEPTEMBER 1952		
	CAV	SYD	CAV	CAV	CAV	CAV	SYD	CAV
Mc/s	81	98	175	81	175	81	98	175
Date								
1	R50	-	0	-	-	0	-	0
2	L20	L69	L20	0	0	0	-	0
3	0	L80	0	0	0	0	-	0
4	0	-	0	0	0	0	-	0
5	-	-	-	0	-	0	-	0
6	-	-	-	0	0	0	-	0
7	-	-	-	0	0	-	-	-
8	-	-	-	0	0	0	-	0
9	-	-	-	0	0	0	-	0
10	0	R67	0	-	-	0	-	0
11	0	R60	0	-	-	0	-	0
12	-	R67	0	0	0	0	-	0
13	-	-	0	0	0	0	-	0
14	-	-	-	0	0	-	-	-
15	-	-	-	0	0	-	-	-
16	-	-	-	0	0	0	-	0
17	-	-	-	-	0	0	-	0
18	-	-	-	-	-	-	-	0
19	-	-	-	-	-	0	-	0
20	-	-	0	-	-	-	-	0
21	-	-	0	0	0	-	-	-
22	-	-	-	0	0	0	-	0
23	-	-	-	-	-	-	-	0
24	0	-	-	-	-	0	-	0
25	0	-	0	-	-	0	-	0
26	0	-	-	0	0	L50	R64	0
27	0	-	0	0	0	-	-	-
28	-	-	-	0	0	-	-	-
29	0	-	0	0	0	-	-	-
30	-	-	-	0	0	0	-	0
31	0	-	0	-	-	-		

3. VARIABILITY

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

	JULY 1952												
	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	COR	TOK	NED	MEU	MEU
Mc/s	60	62	81	98	100	140	169	175	200	200	200	255	545
Date 1	0	0	3	0	0	2	0	2	2	2	3	-	0
2	0	0	0	0	0	0	0	2	2	0	0	-	0
3	0	0	0	1	0	1	0	1	1	0	1	-	0
4	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
6	0	0	0	0	0	-	0	0	0	0	-	-	0
7	0	0	0	0	0	0	0	0	0	0	0	-	0
8	0	0	0	0	0	0	0	0	1	0	1	-	0
9	0	0	0	0	0	0	0	0	-	0	1	-	0
10	0	2	0	0	0	1	0	0	2	0	1	-	0
11	1	1	0	0	1	2	2	2	2	2	2	-	0
12	1	2,0	-	1	1	2	1	1	2	1	2	-	-
13	1	2	-	1	1	-	2	1	2	1	-	-	0
14	0	0	-	0	0	1	0	0	0	0	1	-	0
15	0	0	0	0	0	0	0	0	0	0	1	-	0
16	0	0	0	0	0	0	-	0	0	0	1	-	0
17	0	0	0	0	0	0	0	0	0	0	1	-	0
18	0	0	-	0	0	0	0	0	0	0	0	-	0
19	0	0	0	0	0	0	0	0	0	0	0	-	0
20	0	0	-	0	0	-	0	0	-	0	-	-	0
21	0	0	-	0	0	0	1	0	-	0	0	-	0
22	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
24	0	0	1	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	1	0	-	0	0	1	0	0
26	0	0	0	0	0	1	0	-	2	0	1	1	0
27	0	0	1	0	0	-	1	1	2	0	-	1	0
28	0	0	1	0	0	2	2	2	3	1	2	2	1
29	1	3	1	2	0	2	0	1	1	1	2	2	1
30	1	2	0	2	1	2	0	0	1	1	1	1	1
31	1	3,0	0	3	1	1	0	-	1	1	1	0	0

	AUGUST 1952												
	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	COR	TOK	NED	MEU	MEU
Mc/s	60	62	81	98	100	140	169	175	200	200	200	255	545
Date 1	1	0	0	1	0	1	0	0	1	0	0	0	0
2	1	2,0	1	0	1	1	1	1	1	0	1	1	0
3	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
5	0	0	0	0	0	0	0	0	0	0	0	1	0
6	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
8	0	0	0	0	0	0	0	0	0	0	0	1	0
9	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
11	0	0	0	0	0	0	0	0	0	0	0	0	0
12	1	0	0	0	0	0	0	0	0	0	0	0	0
13	1	0	0	1	0	1	1	0	0	1	1	0	0
14	0	0	1	0	1	1	-	1	2	1	2	-	-
15	1	1	0	0	0	2	3	2	2	2	2	-	-
16	1	0	0	2,0	0	2	2	1	1	1	1	-	-
17	1	1	2	2,0	0	-	1	1	0	1	-	-	-
18	1	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
20	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
22	0	0	0	0	0	0	0	0	0	0	1	0	0
23	0	0	-	0	0	0	0	-	0	0	0	0	0
24	0	0	0	0	0	-	0	0	0	0	-	0	0
25	0	0	0	0	0	0	0	0	0	0	1	0	0
26	0	0	2	0	0	1	1	1	2	0	1	0	0
27	0	0	0	0	0	0	0	0	2	0	1	0	0
28	0	0	1	0	0	3	3	2	3	1	2	1	0
29	1	0	1	2,0	1	0	1	1	2	1	1	1	0
30	0	0,2	1	0,2	0	1	2	2	2	2	2	3	-
31	1	0	-	0	1	-	3	-	3	1	-	1	-

	SEPTEMBER 1952												
	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	COR	TOK	NED	MEU	MEU
Mc/s	60	62	81	98	100	140	169	175	200	200	200	255	545
Date 1	1	3,0	1	2,0	0	1	1	2	3	1	1	3	-
2	1	2,0	1	2,0	0	1	3	1	2	0	1	1	-
3	1	0	1	1	0	1	1	2	2	0	1	1	-
4	0	0	0	2,0	0	0	0	0	1	0	0	0	-
5	0	0	0	0	0	0	0	0	0	0	0	0	-
6	0	0	0	0	0	0	-	0	0	0	0	0	-
7	0	0	-	0	0	-	0	-	0	0	-	-	-
8	0	0	1	0	0	0	0	0	0	0	0	0	-
9	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	-
11	1	0	0	0	0	0	0	0	0	0	0	0	-
12	1	0	0	0	0	0	0	0	0	0	0	0	-
13	1	0	0	0	0	0	-	0	0	0	0	0	-
14	0	0	0	0	0	-	0	0	0	0	-	-	-
15	0	0	0	0	0	0	0	0	0	0	0	0	-
16	0	0	0	0	0	0	0	1	0	0	0	0	-
17	0	0	-	0	0	0	0	0	0	0	0	0	-
18	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	-
20	0	0	0	0	0	0	0	0	0	0	0	0	-
21	0	0	0	0	0	-	0	1	2	0	-	3	-
22	0	0	0	0	0	1	1	0	2	0	1	1	0
23	0	0	0	0	0	1	1	0	1	0	1	1	0
24	0	0	0	0	0	1	0	0	2	0	1	0	0
25	0	0	0	0	0	1	1	0	2	0	2	1	0
26	1	2,0	1	0	1	2	1	1	2	1	2	0	0
27	1	0	0	2,0	1	1	1	-	1	1	1	1	0
28	0	0	0	0	0	-	1	0	1	0	-	0	-
29	0	0	-	0	0	1	0	0	0	0	0	0	-
30	1	0	0	0	0	1	0	0	1	0	1	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-

4. OUTSTANDING OCCURRENCES

Station and frequency	Date 1952	Starting time	Duration	Type	Maximum intensity Inst.	Maximum intensity Smooth	Polarisation	Other frequencies on which occurrence is observed	Remarks
Mc/s		U.T.	Minutes		10^{-21} wm^{-2}(c/s)$^{-1}$			Mc/s	
Ned 140	July 1	1312	16.8	CA	62	10		200	
Ned 200	1	1314	1.5	CA	13	7		140	
Ned 200	1	1533	2.3	CA	18	6			
Syd 98	2	2108	2.8	M	42	5			
Syd 62	2	2116	0.7	CD	78	34	-		
Ott 2800	2	2118	35	SD		206			
Ned 200	3	1528	1.9	CD	13	4			
Syd 62	10	2234	1	CD	312	142			
Syd 98	10	2257	0.2	SA	30	10	-		
Syd 62	10	2340	0.3	SD	398	140		98	
Syd 98	10	2341	0.2	SA	55	18	-	62	
Syd 98	11	0043	0.5	CA	31	13	-		
Syd 98	11	0149	0.5	CA	31	13	-		
Syd 62	11	0542	2.3	CD	73	14			
Syd 62	11	0554	0.2	SD	27	14			
Tok 60	11	0734	2	CD	16	15		100,200	
Tok 100	11	0734	1	CD	24	8		60,200	
Tok 200	11	0734	1	CD	24	9		60,100	
Ned 140	11	0920	2.7	CD	70				
Ned 200	11	1045	3.5	CD	25	5			
Ned 200	11	1345	4.3	CD	25	7			
Ott 2800	11	1612	2.5	CD		2			
Ott 2800	11	1617	1.5	CD		1			
Ott 2800	11	2124	3	SD		1			
Syd 62	11	2235	1.3	CD	49	20		98	
Syd 98	11	2235	1.2	CD	37	10	-	62	
Tok 200	12	0442	2	CD	30	10		60,62,98,100,3260	
Tok 60	12	0443	0.5	CD	11	4		62,98,100,200,3260	
Syd 62	12	0443	0.5	CD	21	13		60,98,100,200,3260	
Syd 98	12	0443	16.5	CD	303	50	0	60,62,100,200,3260	
Tok 100	12	0443	0.5	CD	16	8		60,62,98,200,3260	
Osa 3260	12	0443	1.5	SD		11		60,62,98,100,200	
Tok 60	12	0449	1	CD	7	1		100	
Tok 100	12	0449	3	CD	22	8		60	
Tok 60	12	0456	3	CD	14	4		62	
Syd 62	12	0456	4	CD	209	27		60	
Syd 62	12	0604	2.5	CD	924	287		98,3260	
Syd 98	12	0604	3	CD	880	126	0	62,3260	
Osa 3260	12	0605	3	SD		3		62,98	
Ned 140	12	1100	2.3	CD	70	10		200	
Ned 140	12	1451	78.6	CD	10	10		200,2800	Fadeout
Ned 200	12	1451	11.7	CD	6	6		140,2800	Fadeout
Ott 2800	12	1451	6	CD		16		140,200	
Cor 200	12	1452	7	CD	>4	>4		140,2800	
Ned 200	12	1517	13.3	M	45				
Ott 2800	12	1527	1.5	SD		1			
Ott 2800	12	2128	2	SD		<1			
Syd 98	13	0024	0.2	SA	38	16	-		
Nag 3750	13	0126	1	SD		2			
Tok 60	13	0230	2	CD	16	7		62,98,200	
Tok 200	13	0230	1.5	CD	30	5		60,62,98	
Syd 62	13	0231	1.5	CD	291	51		60,98,200	
Syd 98	13	0231	0.5	CA	62	22	-	60,62,200	
Syd 62	13	0453	0.2	SD	81	35		98	
Syd 98	13	0524	0.2	SA	28	12	-		
Syd 98	14	0141	0.4	CD	49	20	-		
Ned 200	14	0810	1.5	CD	13				
Ned 140	14	1435	0.9	CD	30	30		200	
Cor 200	14	1435	1	CD	>3	2		140	
Ned 200	14	1435	1.3	CD	30	30		140	
Nag 3750	15	0132	3	SD		1			
Syd 98	16	0513	3.3	CD	880	204	0		
Ott 2800	16	1445	2	SD		1			
Ott 2800	21	2107	3	SD		1			
Ott 2800	23	2148	7	SD		1			
Tok 200	28	0626	1	CD	10	3			
Ned 140	28	1300	17.1	M	400				
Ned 200	28	1315	1.7	CA	190				
Ned 140	28	1415	3.9	CD	400			200	
Ned 200	28	1415	3.7	CA	190			140	

Ned	200	28	1524	0.9	CD	89			
Ned	140	28	1525	3.5	CD	260			
Cor	200	28	1632	3.5	CD	>10	8		255,545
Meu	255	28	1633	9	SA	50	35		200,545
Meu	545	28	1634	4	SD	200	70		200,255
Cor	200	28	1640	2	CD	>10	6		255
Syd	98	28	2239	2	CD	171	37	-	62
Syd	62	28	2325	0.5	CD	19	8		
Syd	98	29	0019	0.5	CD	735	265	-	
Nag	3750	29	0056	7.5	SD		1		
Syd	98	29	0440	2	M	37	2	-	62
Syd	62	29	0442	0.2	SD	24	13		98
Syd	98	29	0548	0.4	CD	32	14	-	62
Meu	255	29	0708	1	SD	105	60		
Tok	60	29	0734	1	CD	25	6		
Ned	140	29	0836	4.3	M	45			200
Tok	60	29	0849	1	CD	22	10		140,200
Ned	140	29	0850	17.2	M	340			60,200
Ned	200	29	0850	10.5	M	60			60,140
Ned	140	29	1036	23.8	M	500			255,545
Meu	255	29	1049	5	SD	120	75		140,545
Meu	545	29	1049	1.5	SD	40	30		140,255
Ned	140	29	1315	5.3	CD	190			200
Ned	140	29	1420	2.3	CD	460			
Ned	140	29	1525	1.9	CD	230			
Syd	98	29	2100	3	M	29	14	-	62
Syd	98	29	2121	2.8	M	47	4	-	62
Syd	62	29	2123	0.2	SD	197	74		98
Syd	62	29	2138	0.5	CD	263	100		98
Syd	98	29	2138	0.2	CD	>59	29	-	62
Syd	62	29	2206	0.2	SD	24	13		
Syd	98	29	2210	1	M	166	80	-	
Syd	62	29	2230	0.5	CD	75	33		98
Syd	62	29	2253	0.2	CD	68	22		
Syd	98	29	2306	0.2	SD	59	28	-	62
Syd	62	30	0020	0.2	SD	67	28		
Tok	60	30	0119	1	CD	35	25		62,98
Syd	62	30	0119	0.3	SD	837	178		60,98
Syd	98	30	0119	0.2	CD	53	23	-	60,62
Tok	60	30	0141	1	SD	30	15		62,98
Syd	62	30	0141	0.4	CD	102	33		60,98
Syd	98	30	0141	0.5	CD	158	69	-	60,62
Tok	60	30	0228	1	SD	28	10		62,98
Syd	62	30	0228	0.3	CD	57	26		60,98
Syd	98	30	0228	5	M	40	3	-	60,62
Syd	62	30	0644	0.3	CD	110	43		98
Ned	140	30	0948	1.5	CD	500			
Ned	140	30	1114	3.1	CD	>400			
Ned	140	30	1242	1.9	CD	>400			
Syd	62	30	2215	0.8	CD	401	134		98
Syd	98	30	2231	0.2	CD	66	28	-	62
Syd	98	31	0032	3	M	66	4	-	62,3750
Nag	3750	31	0032	0.3	SD		<1		62,98
Syd	62	31	0035	0.4	CD	261	102		98,3750
Syd	98	31	0107	0.2	SD	62	30	-	
Tok	60	31	0211	1	SD	25	20		62,98
Syd	62	31	0211	0.7	SD	837	324		60,98
Syd	98	31	0212	0.3	CD	377	113	-	60,62
Syd	62	31	0219	4.3	M	39	2		
Syd	62	31	0230	6.8	M	183	5		98
Syd	600	31	0249	6	CD	3	<1		62,98,3260,3750
Syd	62	31	0250	5.3	M	312	17		98,600,3260,3750
Syd	98	31	0250	5	M	482	10	-	62,600,3260,3750
Osa	3260	31	0250	0.5	SD		3		62,98,600,3750
Nag	3750	31	0250	0.8	SD		3		62,98,600,3260
Syd	62	31	0306	0.3	CD	63	29		98
Syd	98	31	0328	1.3	CD	27	7	-	62
Syd	62	31	0343	1	CD	560	155		98
Tok	60	31	0435	1	SD	22	15		62,98,200
Syd	62	31	0435	1.2	SD	926	334		60,98,200
Syd	98	31	0435	0.8	CD	1089	326	-	60,62,200
Tok	200	31	0435	0.5	CD	8	2		60,62,98
Syd	98	31	0439	0.2	SD	100	48	-	
Syd	98	31	0453	1.5	M	85	12	-	62
Syd	62	31	0551	2	CD	578	73		98
Syd	98	31	0608	11.8	M	671	36	-	62
Tok	60	31	0618	2.5	CD	25	10		100
Tok	100	31	0618	2	CD	8	2		60
Tok	60	31	0816	1	SD	22	15		
Ned	200	31	0907	2.7	CD	16	10		140

Ned	140	31	1315	3.9	CD	>500				
Syd	98	31	2116	0.2	SD	>75	35	-		
Syd	98	Aug 1	0445	0.2	SD	33	17	-		
Syd	62	1	0624	0.6	CD	820	301		{98	
Syd	98	1	0624	0.8	CD	318	97	-	{62	
Tok	60	1	0654	1	SD	20	18			
Ned	140	1	1342	3.3	CA	30				
Ned	140	1	1535	2.5	CA	45				
Syd	98	2	0322	0.2	SD	37	18	-		
Syd	62	2	0344	0.2	SD	39	18			
Tok	60	2	0414	2.5	M	23	10		{62,98	
Syd	98	2	0415	2	M	49	24	-	{60,62	
Syd	62	2	0415	2.5	CD	172	27		{60,98	
Syd	62	2	0453	0.3	CD	174	49		{60	
Tok	60	2	0454	1	CD	20	7		{62	
Syd	62	2	0517	0.2	CD	37	21			
Syd	62	2	0639	0.3	CD	39	15		{60,98	
Tok	60	2	0640	2.5	M	18	6		{62,98	
Syd	98	2	0640	0.3	CD	30	14	-	{60,62	
Cav	81	2	1117	20	SD		1			
Ned	140	2	1140	2.7	CA	28	10		200	
Ned	200	2	1344	46.5	M	90	-			
Ned	140	2	1515	2.7	CA	30	-			
Syd	62	11	0257	0.2	SD	22	13			
Syd	62	11	0431	4.8	M	35	4			
Osa	3260	11	0448	0.3	SD		2			
Syd	62	13	0112	13	CD	29	5			
Tok	60	13	0124	2	CD	18	8		{98	
Syd	98	13	0124	12.5	M	63	5	-	{60	
Tok	60	13	0405	2.5	CD	10	3			
Ned	140	13	0832	7.8	CA	35	18			
Syd	98	13	2211	9.5	M	45	2	-		
Syd	62	14	0221	0.3	CD	45	22		98	
Ned	200	14	0847	1.9	CA	27	-			
Ned	140	14	0857	1.5	CD	40	20			
Syd	62	15	0249	0.2	SD	40	20			
Tok	60	15	2321	2	CD	20	6		{62,98	
Syd	98	15	2321	2.3	CD	45	18	-	{60,62	
Syd	62	15	2322	0.3	CD	84	27		{60,98	
Syd	98	16	0239	17.8	M	44	1	-		
Syd	98	17	0452	1	M	165	21	-		
Syd	98	17	0520	0.3	CD	27	13	-	62	
Syd	62	17	0600	2.3	CD	59	15		98	
Ott	2800	17	1219	6	SD		1			
Syd	62	17	2314	4.3	M	25	5		60	
Tok	60	17	2316	1.5	CD	12	3		62	
Syd	62	17	2339	0.2	SD	31	15			
Syd	98	18	0020	0.3	SD	21	11	-		
Tok	60	18	0513	1.5	CD	14	7		{62	
Syd	62	18	0513	1.2	CD	39	13		{60	
Syd	62	21	2118	0.3	SD	187	37			
Nag	3750	23	0259	31	CD		1		62,98	
Syd	98	23	0306	0.6	CD	42	22	-		
Syd	62	23	0311	6	CD	36	7		3750	
Syd	62	23	0516	0.4	CD	69	24			
Ned	140	23	0956	3.1	CD	>20				
Syd	98	24	0054	0.3	SD	46	24	-		
Syd	98	24	0211	0.3	SD	44	20	-		
Cav	81	27	1116	3	SD		1	-	{175	
Cav	175	27	1116	2	SD		1	-	{81	
Tok	200	28	0057	1	CD	10	3			
Nag	3750	28	0240	4	CD		3			
Ned	140	28	1132	1.5	CD	45	7		{200	
Ned	200	28	1132	0.9	CA	65	10		{140	
Ned	200	28	1333	3.3	CA	65	12			
Tok	60	29	0113	1	CD	23	3		{62,98,200	
Syd	98	29	0113	0.7	CD	178	85	-	{60,62,200	
Tok	200	29	0113	1	CD	14	4		{60,62,98	
Syd	62	29	0114	0.3	CD	50	22		{60,98,200	
Syd	98	29	0330	0.2	SD	45	23	-		
Nag	3750	30	0305	138	SD		1			
Nag	3750	30	0552	0.7	SD		1			
Ned	140	30	0815	45	CA	10	10		{200	Fadeout
Ned	200	30	0815	45	CA	7	7		{140	Fadeout
Cav	175	30	0900	120	SD		2	-	{81,140,200	
Cav	81	30	0900	90	SD		1	-	{140,175,200	
Ned	140	30	0900	90	CA	20	20		{81,175,200	Fadeout
Ned	200	30	0906	84.1	CA	10	10		{81,140,175	Fadeout
Cor	200	30	1846	1	CD	4	2			
Syd	98	30	2111	11.5	M	41	1			

Syd 62	30	2145	0.3	CD	310	115		98	
Syd 62	30	2201	0.3	CD	66	29			
Nag 3750	31	0246	1.9	SD		1			
Syd 62	31	0331	1.5	CD	41	13			
Nag 3750	31	0518	1.2	SD		1			
Tok 100	31	0652	1.5	SD	3	2		60,62,98	
Tok 60	31	0653	4	CD	20	20		62,98,100	
Syd 98	31	0653	0.5	CD	47	25	-	60,62,100	
Syd 62	31	0654	0.5	CD	124	44		60,98,100	
Tok 60	31	0710	1	CD	10	6			
Syd 98	31	2103	0.2	CD	899	291	-		
Syd 62	Sept 1	0001	2.3	CD	82	23		3750	
Nag 3750	1	0003	1	SD		1		62	
Syd 62	1	0157	0.2	CD	59	30			
Syd 98	1	0252	4.8	CD	67	2	0	62	
Syd 62	1	0334	5.8	CD	885	64		60,98,3750	
Tok 60	1	0338	3	CD	22	20		62,98,3750	
Syd 98	1	0338	1.2	CD	61	30		60,62,3750	
Nag 3750	1	0338	4	CD		1		60,62,98	
Syd 62	1	0349	1.5	CD	107	41		60	
Tok 60	1	0350	4	CD	9	6		62	
Ned 140	1	1236	3.9	CD	>500	>500		200	Fadeout
Ned 200	1	1236	3.9	CD	>400	>400		140	Fadeout
Cav 81	1	1332	3	SD		1	-	175	
Cav 175	1	1332	3	SD		>1	-	81	
Syd 98	2	0043	4	SD	60	13	-		
Syd 62	2	0229	3.5	M	44	4		60	
Tok 60	2	0230	5	M	10	4		62	
Syd 98	2	0339	0.2	SD	28	16	-		
Syd 62	2	0353	4.3	CD	78	22			
Syd 62	2	0631	0.3	SD	304	120			
Ned 140	2	1439	0.8	CD	24				
Tok 60	3	0716	1	CD	18	3		98	
Syd 98	3	0716	0.2	SD	56	29	-	60	
Ned 140	3	1009	1.5	CD	18	3			
Ned 140	3	1153	1.3	CD	19	3			
Syd 98	3	2214	0.2	CD	28	15	-		
Syd 98	4	0054	4.5	M	46	4	-		
Syd 98	4	0108	1.5	M	61	8	-		
Syd 62	5	0307	0.4	CD	51	22			
Syd 98	5	0308	0.2	SD	48	23	-		
Tok 60	13	0543	1	CD	16	3			
Nag 3750	16	0039	1	SD		<1			
Ott 2800	21	1217	8	SD		7			
Ott 2800	22	1804	10	SD		2			
Ned 140	23	1302	0.8	SD	50	25		200	
Ned 200	23	1305	1.3	CD	8	4		140	
Ned 140	24	1217	0.8	SD	7	3		200	Fadeout
Ned 140	24	1413	5.9	CD	300	-		200	
Ned 200	24	1413	5.9	CD	20	-		140	
Ned 200	25	0920	1.1	CD	30	15		140	
Syd 98	26	0342	13.5	CD	1053	167	0	60,62,100,200,600	
Syd 600	26	0344	60	CD	>7	5		60,62,98,100,200	
Tok 60	26	0347	13	CD	>30	>30		62,98,100,200,600	
Syd 62	26	0347	27	CD	489	70		60,98,100,200,600	
Tok 100	26	0347	5	CD	30	15		60,62,98,200,600	
Tok 200	26	0347	6	CD	>100	16		60,62,98,100,600	
Tok 100	26	0354	4	CD	30	25		60,62,98,200,600	
Tok 200	26	0400	20	CA	26	10		60,62,100,600	
Tok 60	26	0401	15	CA	22	20		62,100,200,600	
Tok 100	26	0410	20	SA	3	3		60,62,200,600	
Syd 3000	26	0445	30	CD	29	10		9400	
Syd 9400	26	0448	24	SD	44	8		3000	
Ned 200	26	0819	1.9	CD	12	3			
Ned 140	26	1151	1.9	CA	45	-			
Syd 98	27	0213	0.2	SD	17	10			
Tok 200	27	0328	3	CD	28	4		60,62,98	
Tok 60	27	0329	3	CD	18	10		62,98,200	
Syd 62	27	0329	4.5	CD	55	5		60, 98,200	
Syd 98	27	0330	4	CD	410	62	-	60,62,100,200	
Tok 60	27	0333	1	CD	20	8			
Tok 100	27	0333	0.6	CD	12	4		62,98,100,200	
Tok 200	27	0333	0.6	CD	33	14		60,62,98,200	
Tok 60	30	0118	4	CD	20	2		60,62,98,100	
Ned 140	30	1346	1.1	CA	18	10		200	

Canberra, March 1953

S.F.Smerd

IV. SOLAR RADIO NOISE DATA

CO-OPERATING OBSERVATORIES

For details refer to No. 99 of the Quarterly Bulletin. In the list given there is to be inserted:

Radiophysics Laboratory, Sydney, Australia	Syd	200 Mc/s	19 - 07 U.T.
Tokyo Astronomical Observatory, Mitaka, Tokyo	Tok	3000 Mc/s	00 - 08 U.T.

TABULATED QUANTITIES

For details refer to No. 99 of the Quarterly Bulletin.

CORRECTIONS

1. **FLUX** The following approximate correction factors emerge from a statistical comparison of the data.

Station and Frequency	Correction Factor	Period in 1952
Ned 140	0.4	Year
Mar 169	1.4	Year
Tok 200	1.3	July, Aug., Oct., Nov.
Ned 200	0.7	June, July, Aug., Nov.
Syd 3000	0.8	April, to July, Sept.
Tok 3000	0.8	Oct., to Dec.
Osa 3260	0.7	Year
Syd 9400	0.8	Feb., July, Oct.

The relative recordings from Cor 200 have been multiplied by 8 throughout 1952, as in previous years. A correction factor of 0.89 may be applied to make the data conform with the flux from the quiet sun, given as 7.1 ± 0.9 by Cornell for November.

4. **OUTSTANDING OCCURRENCES** The relative intensities for Cor 200 have been multiplied by 0.8 throughout 1952, a similar correction to that for the flux applies here.

1. FLUX

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

OCTOBER 1952	CAV	NED	MAR	CAV	SYD	COR	TOK	NED	MEU	MEU	SYD	SYD	OTT	SYD	TOK	OSA	NAG	SYD
Mc/s	81	140	169	175	200	200	200	200	255	545	600	1200	2800	3000	3000	3260	3750	9400
Date																		
1	1	7	4	5	8	8	5	10	-	-	19	31	67	52	91	95	88	322
2	1	6	3	5	8	7	6	10	-	-	22	33	67	-	85	95	90	-
3	1	6	4	5	8	9	5	10	-	-	18	33	69	56	66	-	90	302
4	1	7	4	5	10	-	5	10	-	-	21	35	77	-	87	-	96	-
5	1	-	3	7	10	-	4	-	-	-	-	35	73	-	89	-	-	-
6	1	7	3	8	-	8	5	8	-	-	18	35	75	62	93	-	96	314
7	1	7	-	5	8	8	6	10	-	-	19	35	73	-	-	-	96	-
8	1	7	4	6	7	8	5	10	10	21	20	37	71	62	96	110	94	302
9	1	6	2	5	8	8	4	10	10	20	20	34	71	-	88	110	92	-
10	1	6	3	5	8	8	4	10	10	-	19	35	70	61	82	110	92	295
11	1	6	3	5	7	8	-	10	10	-	21	31	-	-	-	-	92	-
12	9	-	4	8	6	9	4	-	-	-	19	35	73	-	-	-	-	-
13	1	7	4	5	8	8	5	10	-	-	20	34	71	60	78	110	92	328
14	1	7	3	5	9	8	6	10	-	-	18	33	68	-	98	-	90	-
15	1	7	3	4	8	8	5	10	-	-	17	31	67	69	94	-	90	318
16	-	7	3	5	7	9	5	10	-	-	-	-	67	-	70	110	88	-
17	-	7	4	5	8	9	5	10	10	20	19	34	66	61	95	106	88	300
18	1	7	3	5	-	8	5	10	10	20	21	33	65	-	93	103	88	-
19	1	-	3	5	-	8	5	-	-	-	-	32	69	-	95	-	-	-
20	-	6	3	5	7	8	5	10	10	20	24	34	69	64	95	119	94	331
21	-	8	5	10	9	12	4	16	13	20	25	36	73	-	86	119	98	-
22	-	7	-	6	17	13	-	14	-	-	25	36	80	67	-	-	104	318
23	-	13	7	9	11	12	5	14	15	-	23	39	80	-	90	121	106	-
24	1	8	-	7	12	10	6	15	12	24	23	39	81	68	103	-	104	276
25	-	10	-	14	14	12	7	22	10	-	22	39	-	-	86	128	104	-
26	-	-	-	5	7	8	-	-	10	-	22	37	77	-	-	-	-	-
27	-	-	3	4	7	8	5	-	10	-	22	37	75	70	96	-	100	288
28	-	-	3	-	7	8	-	-	10	20	24	37	77	-	81	-	-	-
29	-	7	3	-	6	8	-	10	10	20	24	35	75	68	-	125	96	322
30	-	8	3	4	8	8	5	9	10	20	23	34	73	-	94	-	94	-
31	-	8	3	-	7	7	5	10	10	21	24	33	71	59	90	-	94	296

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

NOVEMBER 1952	SYD	CAV	SYD	NED	MAR	CAV	SYD	COR	TOK	NED	MEU	MEU	SYD	SYD	OTT	SYD	TOK	OSA	NAG	SYD
Mc/s	62	81	98	140	169	175	200	200	200	200	255	545	600	1200	2800	3000	3000	3260	3750	9400
Date																				
1	G	-	G	7	3	3	6	9	4	9	10	20	23	33	67	-	86	-	92	-
2	G	-	G	-	3	3	6	8	4	-	10	20	23	32	-	-	-	-	-	-
3	G	-	G	-	2	4	-	8	5	-	10	20	21	28	63	59	82	-	-	315
4	G	-	G	10	2	4	6	8	5	9	-	-	21	33	62	-	84	97	86	-
5	G	-	G	10	2	-	7	9	4	9	10	20	22	34	67	48	76	-	86	294
6	G	-	G	10	3	4	6	8	-	10	10	20	23	32	64	-	80	103	86	-
7	G	-	G	10	2	4	5	9	4	10	10	20	22	36	65	60	83	106	88	276
8	G	-	G	10	3	-	5	9	5	9	-	-	22	37	-	-	89	110	94	-
9	G	-	G	-	3	5	4	7	6	-	-	-	20	41	65	-	87	-	-	-
10	G	-	G	10	3	-	5	-	5	9	10	20	21	36	65	61	80	110	90	326
11	G	1	G	11	3	4	6	9	6	10	10	20	23	36	67	-	77	106	90	-
12	G	-	G	11	3	4	6	10	5	10	12	22	22	38	68	55	70	-	90	340
13	G	-	G	11	3	4	7	-	7	10	10	20	21	35	69	-	-	-	88	-
14	G	-	G	13	3	4	10	-	6	11	12	24	20	35	69	66	83	-	90	311
15	-	1	G	22	3	8	7	-	-	19	16	28	21	34	-	-	89	-	94	-
16	-	1	-	-	3	5	-	-	-	-	12	35	19	34	-	70	91	-	-	330
17	G	1	G	10	3	4	15	-	-	11	12	22	22	36	78	-	-	123	104	-
18	G	-	G	13	3	4	12	12	-	15	18	29	22	38	82	-	102	134	108	-
19	G	-	G	12	3	4	9	19	-	12	13	27	21	37	97	81	-	-	114	336
20	G	1	G	13	4	4	12	10	-	12	11	20	23	36	84	-	115	141	114	-
21	G	1	G	16	8	6	15	13	6	19	17	20	23	39	87	78	109	-	114	331
22	G	-	G	13	4	-	39,7	15	11	11	10	20	23	40	82	77	110	-	114	325
23	G	1	G	-	3	5	7	9	7	-	11	20	24	39	82	72	87	-	108	294
24	G	2	G	15	8	11	8	10	5	20	17	20	23	38	82	-	99	-	106	-
25	G	1	G	17	9	9	10	14	7	18	34	-	23	37	83	69	116	132	108	316
26	G	-	G	12	7	8	23,12	18	6	14	10	-	23	34	75	-	107	125	104	-
27	G	1	G	29	6	9	20	-	7	33	15	-	22	32	67	-	92	-	98	-
28	G	1	G	14	8	6	22	10	7	17	15	-	-	-	68	69	92	-	96	293
29	G	1	G	7	6	-	5	9	6	12	10	-	22	35	-	-	88	110	-	-
30	G	1	G	-	6	5	7	9	5	-	10	-	21	33	-	-	-	-	88	-

DECEMBER 1952	CAV	SYD	NED	MAR	CAV	SYD	COR	TOK	NED	MEU	MEU	SYD	SYD	OTT	SYD	TOK	OSA	NAG	SYD
Mc/s	81	98	140	169	175	200	200	200	200	255	545	600	1200	2800	3000	3000	3260	3750	9400
Date																			
1	1	G	10	4	-	-	8	5	10	11	-	19	32	67	60	82	-	86	318
2	1	G	7	4	5	25,9	8	6	9	11	-	20	30	-	-	84	108	84	-
3	1	G	8	4	6	6	8	5	9	12	-	20	29	67	66	85	-	84	328
4	1	G	8	4	5	-	8	6	9	10	-	20	30	65	-	78	-	86	-
5	1	G	9	4	5	7	8	6	9	12	-	20	38	67	59	85	-	90	284
6	1	G	9	4	5	7	9	-	10	12	-	-	-	-	-	-	119	90	-
7	1	G	-	4	6	8	10	5	-	12	-	-	-	-	-	94	-	-	-
8	1	G	8	3	4	11	10	6	11	12	24	22	32	73	58	94	-	96	313
9	-	G	8	4	-	12	9	6	11	11	23	21	35	77	-	95	-	96	-
10	2	G	10	4	4	11	9	7	11	12	24	22	33	79	66	98	-	96	290
11	-	22,G	23	6	-	-	9	-	17	-	-	-	-	84	-	-	121	96	-
12	1	G	14	5	4	10	10	7	12	13	25	22	-	82	76	-	125	100	300
13	1	G	13	6	7	9	9	-	11	13	25	-	-	-	-	-	119	106	-
14	-	G	-	6	-	8	9	5	-	12	24	-	-	-	-	109	-	-	-
15	1	G	9	6	7	9	9	6	15	12	23	27	36	88	85	119	143	108	326
16	-	G	11	4	-	11	7	5	12	12	23	25	36	88	78	118	-	112	332
17	1	G	8	4	-	14	9	6	11	12	22	25	38	90	96	116	-	114	293
18	1	G	7	3	-	11	16	-	9	-	-	27	43	88	-	-	-	114	-
19	1	G	6	3	4	10	9	5	10	12	-	25	41	-	81	118	-	114	324
20	1	G	7	3	5	9	9	-	9	12	-	22	41	-	-	-	-	108	-
21	1	G	-	3	4	8	9	6	-	-	-	23	39	-	-	114	-	-	-
22	1	G	6	3	4	9	8	5	8	12	-	23	39	73	86	99	130	98	322
23	1	G	7	3	4	7	8	6	8	11	23	21	32	73	-	105	-	96	-
24	-	G	7	3	-	7,25	8	6	7	11	21	21	33	71	-	101	116	94	-
25	1	G	-	3	4	10,5	-	-	-	11	21	19	35	-	-	-	-	94	-
26	1	G	-	3	4	9	10	6	-	11	21	20	34	69	-	-	-	90	-
27	1	G	-	3	-	7	8	-	-	12	22	19	30	-	-	-	-	86	-
28	1	G	-	3	-	7	9	6	-	-	-	19	29	-	-	-	-	-	-
29	1	G	6	3	-	7	9	6	7	12	23	18	28	62	65	-	-	82	324
30	1	G	4	3	4	7	9	6	7	11	23	23	27	62	-	-	-	82	-
31	1	G	5	3	4	7	10	7	9	11	23	21	29	71	-	-	-	84	-

Sydney 62 Mc/s - G for the whole month

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

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.

3. VARIABILITY

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

OCTOBER 1952

	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	SYD	COR	TOK	NED	MEU	MEU
Mc/s	60	62	81	98	100	140	169	175	200	200	200	200	255	545
Date														
1	1	1	0	2	0	0	0	0	1	0	1	0	-	-
2	1	2	0	2,1	1	1	0	1	1	-	1	1	-	-
3	1	2,3	0	2	1	1	0	0	2	-	1	1	-	-
4	1	2	0	3,1	1	1	0	0	1	-	1	1	-	-
5	1	2,0	0	2,0	1	-	0	0	1	-	1	-	-	-
6	1	1	-	1	1	1	0	0	1	0	1	1	-	-
7	1	1	0	0	1	0	-	0	1	0	0	0	-	-
8	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
10	0	0	0	0	0	1	0	0	0	0	0	0	0	-
11	-	0	0	0	-	0	0	0	0	0	-	0	0	-
12	0	0	2	0	0	-	1	0	0	0	0	-	-	-
13	1	1	0	1	1	1	0	0	0	0	0	0	-	-
14	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	-	-
16	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
18	0	0	0	0	0	1	0	0	-	0	0	0	0	0
19	0	0	0	0	0	-	0	0	-	0	0	-	-	-
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	-	0	0	1	1	1	0	2	0	1	0	0
22	-	0	-	0	-	1	-	0	0	2	-	1	-	-
23	0	0	-	0	0	1	1	0	1	2	0	1	1	-
24	0	0	0	0	0	1	-	0	1	2	0	1	1	0
25	0	0	-	0	0	2	-	2	2,0	2	0	2	0	-
26	-	0	-	0	-	-	-	0	0	0	-	-	0	-
27	0	0	-	0	0	-	0	0	0	0	0	-	0	-
28	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
30	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

NOVEMBER 1952

	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	SYD	COR	TOK	NED	MEU	MEU
Mc/s	60	62	81	98	100	140	169	175	200	200	200	200	255	545
Date														
1	0	0	-	0	0	0	0	0	0	0	0	0	0	0
2	-	0	-	0	0	-	0	0	0	0	0	-	0	0
3	0	0	-	0	0	-	0	0	-	0	0	-	0	0
4	0	0	-	0	0	0	0	0	0	0	0	0	-	-
5	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
7	0	0	-	0	0	0	0	1	0	0	0	0	0	0
8	0	0	-	0	0	0	0	-	0	0	0	0	-	-
9	0	0	-	0	0	-	0	0	0	0	0	-	-	-
10	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
12	0	0	-	0	0	0	0	0	0	-	0	0	0	0
13	0	0	-	0	-	0	1	0	0	-	0	0	0	0
14	0	0	-	0	0	1	1	0	0	-	0	0	0	0
15	-	-	0	0	-	2	1	0	0	-	-	2	1	1
16	0	-	0	-	0	-	0	1	-	-	-	-	0	1
17	0	0	0	0	0	0	0	0	1	-	-	1	0	0
18	0	0	-	0	0	1	0	0	0	2	-	1	1	0
19	-	0	-	0	-	0	0	0	0	2	-	0	1	0
20	0	0	0	0	0	0	0	0	0	1	0	0	0	1
21	0	0	0	0	0	1	2	1	1	2	0	2	1	0
22	1	2,0	-	2,0	1	0	1	-	3,0	1	1	0	1	0
23	0	0	0	0	0	-	0	0	0	0	0	-	1	0
24	-	0	1	0	0	1	2	2	1	1	0	2	3	1
25	0	1	0	1	0	1	1	0	1	2	0	2	3	-
26	0	0	-	0	0	0	1	0	1	2	0	1	0	-
27	-	0	0	0	0	3	1	3	2	-	0	3	1	-
28	0	0	1	0	0	1	1	0	2	2	1	1	3	-
29	0	0	0	0	0	0	0	0	1	1	0	1	1	-
30	0	0	0	0	0	-	1	0	0	1	0	-	0	-
31														

DECEMBER 1952

	TOK	SYD	CAV	SYD	TOK	NED	MAR	CAV	SYD	COR	TOK	NED	MEU	MEU
Mc/s	60	62	81	98	100	140	169	175	200	200	200	200	255	545
Date														
1	0	0	0	0	0	1	0	0	-	0	0	1	0	-
2	0	0	0	0	0	0	0	0	0	0	0	0	0	-
3	0	0	1	0	0	0	0	0	-	1	0	1	0	-
4	0	0	0	0	0	0	0	0	-	0	0	0	0	-
5	0	0	0	0	0	0	0	0	0	0	0	1	0	-
6	-	0	0	0	-	0	1	0	0	1	-	1	0	-
7	0	0	1	0	0	-	1	1	1	1	0	-	0	-
8	1	1	0	1	1	1	0	0	1	1	1	1	0	0
9	0	0	-	0	0	0	0	-	0	2	0	1	0	0
10	0	0	0	0	0	0	0	0	1	1	0	0	0	0
11	-	0	-	0	-	1	0	-	1	0	-	1	-	-
12	0	1,3	0	1	0	1	0	0	1	1	0	1	0	0
13	-	3,0	0	3,0	-	0	0	0	1	1	-	1	0	0
14	0	0	-	0	0	-	0	0	0	1	0	-	0	0
15	0	0	-	0	0	1	0	0	0	1	0	1	0	0
16	0	0	-	1	0	1	0	-	0	0	0	1	0	0
17	0	0	0	0	0	1	0	-	0	0	0	1	0	0
18	-	0	1	0	-	1	0	-	0	2	-	1	-	-
19	0	0	0	0	0	0	0	0	0	0	1	1	0	-
20	-	0	0	0	-	0	0	0	0	0	-	1	0	-
21	1	0	1	0	0	-	0	1	0	0	0	-	-	-
22	0	0	0	0	0	0	0	0	0	0	0	1	0	-
23	0	1	0	3,1	0	0	0	0	0	1	0	0	0	0
24	0	0	-	0	0	0	0	-	0	1	0	1	0	0
25	-	2,0	0	2,0	-	-	0	0	1	-	-	-	0	0
26	0	0	-	0	0	-	0	0	0	1	0	-	0	0
27	-	1	-	1	-	-	0	-	1	0	-	-	0	0
28	0	0	-	0	0	-	0	-	0	0	0	-	-	-
29	0	0	0	0	0	1	0	0	0	0	0	1	0	0
30	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

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 sense & percentage

	OCTOBER 1952		NOVEMBER 1952		DECEMBER 1952		
	CAV	CAV	CAV	CAV	CAV	SYD	CAV
Mc/s	81	175	81	175	81	98	175
Date							
1	0	0	-	0	0	-	0
2	-	0	-	0	0	-	0
3	0	0	-	0	0	-	0
4	-	-	-	-	0	-	0
5	-	0	-	0	-	-	0
6	0	0	-	0	0	-	0
7	-	-	-	0	0	-	0
8	0	0	-	-	0	-	0
9	0	0	-	0	-	-	0
10	0	0	-	-	0	-	0
11	0	0	0	0	-	L40	-
12	0	0	0	0	0	-	-
13	0	0	-	-	0	-	0
14	0	0	-	-	0	-	0
15	0	0	0	0	0	-	0
16	-	0	-	-	-	-	-
17	0	0	-	-	0	-	-
18	0	0	-	-	0	-	0
19	-	-	-	-	0	-	-
20	0	0	-	-	0	-	0
21	-	0	0	0	-	-	-
22	-	0	-	-	0	-	0
23	-	0	0	0	0	-	0
24	0	0	-	-	-	-	-
25	0	0	-	-	-	-	-
26	-	-	-	0	-	-	-
27	0	0	0	0	-	-	-
28	-	0	-	0	-	-	-
29	-	0	-	-	0	-	0
30	-	0	0	0	0	-	0
31	-	0	-	-	0	-	0

4. OUTSTANDING OCCURRENCES

Station and frequency	Date 1952	Starting time	Duration	Type	Maximum intensity Inst.	Maximum intensity Smooth	Polar-isation	Other frequencies on which occurrence is observed	Remarks
Mc/s		U.T.	Minutes		10^{-21}wm^{-2}(c/s)$^{-1}$			Mc/s	
Syd 62	Oct 1	0228	0.2	SD	31	16			
Syd 98	1	0308	0.2	CD	50	25	-	200	
Syd 62	1	0313	0.2	SD	31	15		200	
Syd 200	1	0317	0.8	CD	70	17		62	
Syd 200	2	0033	0.2	SD	24	10		98	
Mag 3750	2	0036	30	SD		< 1		98	
Syd 200	2	0043	1.8	CD	>37	11		98,3750	
Syd 98	2	0044	2.5	CD	>59	21	0	200,3750	
Tok 200	2	0043	0.6	CD	60	15		98,3750	
Syd 98	2	0200	0.2	SD	54	28	-		
Syd 62	2	0551	4.3	CD	48	12		200	
Syd 200	2	0554	2.3	CD	9	3		62	
Syd 98	2	0623	0.3	SD	31	16	-	62	
Syd 62	2	0706	0.3	CD	34	16		98	
Cav 175	2	1022	0.5	SD	1	1	-		
Ned 140	2	1041	2.3	CD	50	7		175	
Cav 175	2	1042	0.5	SD	1	1	-	140	
Ned 140	2	1107	1.1	SD	10	5		81,175	
Cav 81	2	1108	1	SD	-	2	-	140,175	
Cav 175	2	1108	1	SD	1	1	-	81,140	
Syd 200	2	2241	14.7	M	12	< 1			
Syd 62	2	2247	0.3	CD	29	14			
Syd 62	2	2328	2	CD	431	127		98,200,600	
Syd 98	2	2328	1.8	CD	489	107	-	62,200,600	
Syd 200	2	2328	2.2	CD	24	6		62,98,600	
Syd 600	2	2328	2	CD	2	< 1		62,98,200	
Syd 200	3	0018	9.5	M	113	10		60,62,98,600	
Tok 60	3	0018	4	CD	30	15		62,98,200,600	
Syd 62	3	0018	3	CD	134	20		60,98,200,600	
Syd 98	3	0118	1	CD	63	22	-	60,62,200,600	

Tok 200	Oct 3	0118	3	CD	60	2		60,62,98,600	
Syd 600	3	0119	7	CD	4	1		60,62,98,200	
Tok 60	3	0123	3	CD	12	4		200,600,3750	
Tok 200	3	0124	1	CD	30	4		60,600,3750	
Nag 3750	3	0124	11	SD		<1		60,200,600	
Syd 200	3	0128	6.5	CD	200	8		60,600,3750	
Syd 62	3	0342	0.2	SD	20	10			
Syd 62	3	0441	7	CD	>66	22			
Syd 200	3	0450	1.2	CD	174	43		60,98,100,600	
Tok 60	3	0451	3	CD	>30	30		98,100,200,600	
Tok 100	3	0451	4	CD	22	16		60,98,200,600	
Tok 200	3	0451	1.2	CD	65	24		60,98,100,600	
Syd 600	3	0451	7	CD	4	1		60,98,100,200	
Syd 98	3	0451	5.5	CD	250	52	0	60,100,200,600	
Syd 200	3	0456	0.6	CD	26	11		60,100	
Tok 60	3	0457	1	CD	>30	3		100,200	
Tok 100	3	0457	1	CD	20	4		60,200	
Tok 200	3	0457	0.5	CD	25	1.5		60,100	
Syd 200	3	0738	1.7	CD	20	8			
Ned 140	3	0932	3.3	CD	>10	>10		200	Fade
Ned 140	3	0936	1.9	CD	>10	>10			Fade
Ned 200	3	1455	1.5	CD	30	15		140	
Ned 200	3	1457	1.5	CD	40	20		140	
Syd 98	3	2128	4.3	CD	469	74	0	62,200	
Syd 200	3	2225	0.5	CD	7	3			
Syd 98	3	2320	4.5	CD	50	20	-	62,200	
Tok 60	4	0113	1	CD	30	2		62,98	
Syd 62	4	0113	0.2	SD	50	22		60,98	
Syd 98	4	0113	0.3	SD	25	13	-	60,62	
Tok 60	4	0156	1	CD	22	10			
Syd 98	4	0201	5.5	CD	334	34	0	60,100,200	
Tok 60	4	0201	4	CD	35	15		98,100,200	
Syd 200	4	0201	4	CD	42	13		60,98,100	
Tok 100	4	0202	2	CD	30	2		60,98,200	
Tok 100	4	0228	0.6	CD	20	4		60,62,98,200,3750	
Tok 60	4	0230	1.5	CD	30	9		62,98,100,200,3750	
Syd 62	4	0232	1.3	CD	486	165		60,98,100,200,3750	
Syd 98	4	0232	0.3	CD	171	63	-	60,62,100,200,3750	
Nag 3750	4	0233	0.3	SD		1		60,62,98,100,3750	
Syd 200	4	0234	0.5	CD	7	4		60,62,98,100,3750	
Tok 60	4	0346	1	CD	>30	30		62,98,100	
Tok 100	4	0347	1	CD	16	6		60,62,98	
Syd 62	4	0350	0.7	CD	201	67		60,98,100	
Syd 98	4	0350	0.2	CD	44	19	-	60,62,100	
Syd 200	4	0402	7.5	M	14	4			
Syd 62	4	0418	6	CD	>53	9		60,98	
Tok 60	4	0419	4	CD	25	15		62,98	
Syd 98	4	0419	2	CD	23	7	-	60,62	
Syd 62	4	0537	1	CD	48	21		98	
Syd 98	4	0554	0.5	CD	36	13	-		
Syd 98	4	0557	0.3	SD	50	23	-	62	
Syd 62	4	0633	1	CD	37	11			
Syd 62	4	0646	3.8	M	14	1			
Ned 140	4	0951	0.6	CD	25	-			
Ned 140	4	1001	1.3	CD	20	-			
Ned 140	4	1121	17.6	M	320	-		200	Fade
Ned 200	4	1129	7	CD	10	4		140	Fade
Ned 140	4	1311	1.3	CD	30	15			
Ned 140	4	1318	0.4	CD	17	-			
Ned 140	4	1458	3.1	CD	35	-			
Ned 140	4	1534	1.9	CD	>400	-		200	
Ned 200	4	1534	1.9	CD	55	4		140	
Cav 81	4	1356	3	CA	-	2	-		
Cav 175	4	1400	3	SD	-	1	-		
Cav 81	4	1447	4	SD	4	3	-	175	
Cav 175	4	1447	4	SD	5	4	-	81	
Syd 62	4	2046	0.2	SD	23	12			
Syd 98	4	2110	1.2	CD	29	7	-	62	
Syd 62	4	2212	0.4	CD	49	16			
Syd 200	4	2309	2.2	CD	23	6			
Syd 62	4	2332	0.2	SD	35	14		98	
Syd 62	5	0116	2.5	CD	34	7			
Tok 60	5	0145	8	M	20	4		62,98,200	
Syd 62	5	0145	7.5	CD	70	14		60,98,200	
Syd 200	5	0148	4.5	CD	26	5		60,62,98	
Syd 98	5	0151	1.5	CD	>50	25	-	60,62,200	
Syd 98	5	0157	0.2	CD	25	13	-		
Syd 98	5	0201	0.2	CD	34	15			
Syd 200	5	0707	10.8	CD	29	4			
Cav 81	5	1123	5	SD	-	4	-	175	

Cav 175	Oct 5	1123	5	SD	-	1	-	81	
Syd 200	6	0127	39	CD	10	2		62	
Syd 62	6	0130	0.2	SD	35	18		200	
Syd 62	6	0141	6	CD	56	7		3750	
Nag 3750	6	0142	0.2	SD	-	1		62	
Syd 3000	6	0216	6	SD	12	5		9400	
Syd 9400	6	0217	3	SD	52	13		3000	
Syd 200	6	0336	6.2	CD	6	2		60,62	
Tok 60	6	0337	5	CD	10	2		62,200	
Syd 62	6	0339	3.2	CD	14	3		60,200	
Ned 140	6	1055	1.1	CD	10	5			
Cor 200	6	1832	8.5	CD	> 4	> 3			
Syd 200	7	0118	1.5	CD	11	11		3750	
Nag 3750	7	0118	2	CD	-	3		200	
Syd 200	7	0215	4.7	CD	>29	11		62,98,600,3750	
Nag 3750	7	0216	3	SD	-	9		62,98,200,600	
Syd 98	7	0216	8.8	CD	60	20	0	62,200,600,3750	
Syd 600	7	0216	15	CD	13	3		62,98,200,3750	
Syd 62	7	0221	3.3	CD	> 58	21		98,200,600,3750	
Syd 200	7	2355	0.4	CD	22	8			
Cav 81	8	0942	1	SD	1	1	-		
Cav 175	8	1115	1	SD	1	1	-		
Syd 98	12	2219	0.2	SD	65	31	-	62	
Syd 98	13	0133	2	CD	> 77	6	-	62	
Cav 175	17	1402	2	SD	5	3	-		
Cav 81	19	1028	2	SD	1	1	-		
Syd 200	22	2245	0.2	CA	18	8			
Cav 175	23	1334	3	SD	7	5	-		
Ned 140	23	1456	1.1	CD	46	-			
Nag 3750	25	0111	24	CD	-	< 1			
Ned 140	25	0901	1.1	CA	10	-			
Ned 140	30	1047	1.1	CD	10	-		200	
Ned 200	30	1047	1.1	CD	10	-		140	
Nag 3750	Nov 8	0020	17	SD		4			
Cav 81	13	1005	2	SD	4	2	-	175	
Cav 175	13	1005	1.5	SD	5	4	-	81	
Ned 140	15	0915	90	M	28	4			Fade
Ned 140	15	1230	30	M	6	3			Fade
Ned 200	15	1308	2.7	CA	8	3			Fade
Ned 140	15	1330	90	M	32	10		200	Fade
Nag 3750	17	0058	1.2	SD	-	4			
Ned 140	17	0952	2.3	CD	>400	-		200	
Ned 200	17	1438	3.9	CD	7	5		140	
Nag 3750	19	0021	25	CD	-	4			
Nag 3750	19	0138	70	CD	-	4			
Meu 545	19	1352	132	CD	43	17			
Syd 200	19	2106	1.5	CD	23	8			
Nag 3750	20	0047	1.7	SD	-	6			
Syd 200	20	0156	0.2	SD	15	7			
Ned 200	21	0858	1.9	CA	17	5			
Ned 140	21	0950	2.7	CD	19	-			
Ned 200	21	1129	2.7	CA	18	-			
Ned 200	21	1249	3.9	CA	18	10			
Syd 600	21	2345	70	CD	12	2		62,98,200,1200,3000,9400	Fade
Syd 1200	21	2345	15	CD	28	20		62,98,200,600,3000,9400	Fade
Syd 3000	21	2346	14	SD	130	68		62,98,200,600,1200,9400	Fade
Syd 200	21	2350	1.7	CD	177	58		62,98,600,1200,3000,9400	Fade
Syd 9400	21	2350	10	SD	76	40		62,98,200,600,1200,3000	Fade
Syd 98	21	2351	100	CD	405	107	R.H.	62,200,600,1200,3000,9400	Fade
Syd 62	21	2354	82	CD	948	54		98,200,600,1200,3000,9400	Fade
Nag 3750	22	0241	3	SD	-	4			
Nag 3750	22	0331	0.5	SD	-	4			
Ott 2800	22	1839	4	CD	-	4			
Ned 200	24	1000	360	M	15	4			
Cav 81	24	1133	1	SD	1	1	-		
Cav 175	24	1135	2.5	SD	2	1	-		
Cav 175	24	1158	1.5	SD	3	1	-		
Cav 175	24	1320	1	SD	1	1	-		
Syd 62	25	0231	0.3	CD	68	32		98	
Syd 98	25	0231	0.4	CD	223	99	-	62	
Syd 200	25	0327	3	CD	12	4			
Ned 200	25	0830	30	M	55	-			
Ned 200	25	1115	7.5	M	12	-			
Syd 200	25	2307	11	CD	13	3			
Nag 3750	26	0154	6	SD		6			
Syd 200	26	0601	27	CD	12	4			
Syd 200	26	2139	26	CD	27	4			
Ned 200	27	0820	105	M	15	-			
Ned 200	27	1215	165	M	36	10			
Nag 3750	28	0223	4	CD	-	6			

Ned	200	Nov 28	1056	3.9	CD	12	7			
Cav	81	28	1214	2	SD	-	2	-		
Cav	81	28	1316	4	SA	-	2	-		
Syd	200	29	0443	1.2	CD	12	4			
Syd	200	29	0528	0.7	CD	15	6			
Meu	255	29	2040	5.9	CA	36	15			
Syd	200	30	0338	0.2	CD	8	4			
Cav	81	30	1418	5	SD	-	2	-	{175	
Cav	175	30	1418	4	SD	2	1	-	81	
Syd	200	Dec 5	2143	3	M	21	2		{62,98	
Syd	62	5	2145	0.4	SD	63	27		98,200	
Syd	98	5	2145	0.4	CD	25	13	-	62,200	
Cor	200	7	2041	1	CD	> 4	> 4		{62	
Syd	62	7	2023	0.2	SD	47	21		200	
Syd	62	7	2053	0.3	CD	58	27			
Syd	62	7	2148	2.6	CD	68	29		98	
Tok	60	8	0221	1	CD	30	15		{62,98	
Syd	98	8	0221	0.8	CD	66	24	-	60,62	
Syd	62	8	0221	1	CD	>68	53		60,98	
Syd	98	9	2139	55	CD	44	12	R.H.		
Syd	200	11	0316	6.5	CD	110	40		{62,98	
Syd	62	11	0316	12.5	CD	68	48		98,200	
Syd	98	11	0317	5	CD	892	156	0	62,200	
Syd	200	12	0252	4.5	M	11	1		{62,98	
Syd	62	12	0252	4	CD	69	15		98,200	
Syd	98	12	0252	1.3	CD	28	9	-	62,200	
Syd	62	12	0420	0.2	SD	48	22			
Ned	200	12	1000	6.1	CD	16	6		140	
Ned	140	12	1004	2.4	CD	90	13			
Ned	140	12	1338	0.8	SD	60	-			
Syd	200	12	2007	7.6	M	9	< 1			
Syd	98	12	2013	0.5	CD	68	28	-	62	
Syd	62	12	2041	1	SD	>79	72		98	
Syd	98	13	0057	0.2	SD	44	25	-		
Syd	62	13	0225	10.3	M	7	3		98	
Syd	62	13	0300	9	M	85	4			
Syd	98	13	0309	0.2	SD	28	16	-		
Syd	98	13	0318	1	M	118	17	-		
Syd	62	13	0335	0.3	SD	85	49			
Syd	62	13	0400	0.4	SD	> 85	62			
Syd	62	13	0530	0.3	CD	75	44			
Syd	98	13	0610	0.2	SD	38	22	-		
Syd	98	13	0706	4.5	M	555	15	-	62	
Ned	200	13	1011	5.6	CD	11	2			
Syd	200	15	0429	2	M	12	2			
Ned	200	15	0815	13	M	10	3			
Ned	200	15	1012	7	CD	32	15		140	
Ned	140	15	1020	3.2	CD	28	6			
Ned	200	15	1031	0.8	CD	15	-		140	
Syd	600	16	0513	7	CD	4	1		{200,1200	
Syd	1200	16	0514	4	CD	4	1		200,600	
Syd	200	16	0515	3.2	CD	112	33		600,1200	
Syd	200	16	0549	0.2	SD	11	7			
Syd	600	16	0619	10	CD	3	1			
Syd	98	16	0752	1.7	CD	704	94	-	200	
Ned	140	16	0954	5.6	CD	19	-			
Ned	140	16	1114	1.2	CD	60	20			
Syd	98	16	2005	0.3	CD	38	21	-		
Syd	62	17	1945	0.3	SD	63	28			
Syd	200	17	2240	10	CD	21	6			
Syd	200	20	2348	1.9	M	23	4			
Cav	175	21	1228	1.5	SD	4	3	-		
Syd	98	23	0510	3.5	M	28	1	-		
Syd	98	23	2132	5.8	M	33	1	-	62	
Syd	200	25	0050	1.2	CD	18	8			
Syd	98	25	0216	0.3	CD	82	43	-		
Syd	200	25	0320	6	CD	69	10			
Syd	98	25	0324	0.3	CD	>81	45	-		
Syd	200	25	0547	7	M	87	5			
Syd	62	25	0552	0.5	CD	341	131		98	
Syd	200	25	0737	0.2	SD	15	6			
Syd	62	26	2041	0.2	CD	32	17		{98,200	
Syd	98	26	2041	0.2	SD	58	35	-	62,200	
Syd	200	26	2041	1	CD	10	4		62,98	
Syd	200	27	0729	0.5	CD	19	6		{98	
Syd	98	27	0731	2.3	M	33	1	-	200	
Ned	140	29	1408	1	CD	22	5			

Canberra, August 1953

S.F. Smerd