

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Seismological  
Bulletin No. 33

Milne-Shaw Seismograph No. 41 E-W Component.

Period 12 secs. Damping ratio 20:1. Time 1" = 42.8mm.

Universal

Date	Time	Phase	A	t	$\Delta$	Remarks
1936	h m s		$\mu$	s	°	
Jan. 2	17 55 55	i	vs			
	39 25	S				
	44 55	i				
	47 20	L				
	50.4	M	44	17		
-2	22 44 9	P				
	52 0	S			56.7	
	23 0 47	L				
	4 23	o				beginning of larger, smooth waves.
	7.5	M	120	21		
9	23 24 52	i				
	30 38	L				
	34.7	M	8	10		
-14	5 49 13	CP	vs			
	58 46	S	-			
	6 4 9	SS				
	7 22	SSS				largest feature
	9 22	i				
	12 18	L				
	17.5	M	46	20		
14	12 18 44	i				
	24 22	o				
	29 45	L				
-14	17 46 58	iP				
	51 33	S			26.7	
	53 30	L				
	55.9	M	300	22		
-15	14 49 10	P				
	53 52	S			27.6	
	54.4	m	33	14		
	57.0	L				
	59.7	M	53	17		
15	16 44 37	o	vs			
	43 37	i				
	59.2	M	4	11		
-20	17 4 50	CP	-			
	5 10	i				
	7 2	PPP				
	11 25	S			44.6	
	11 56	i				
	14 58	SSS				largest amplitude of train.
	17 10	L				
	25.6	M	39	18		

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Seismological  
Bulletin No. 33 contd.

Date	Time	Phase	A	t	$\Delta$	Remarks
1936	h m s		$\mu$	s	o	
Jan. 23	10 8 30	C	vs			
	12 55	i	s			
	13 19	i	s			
	14 35	L				
	15.1	M	8	8		

27

record lost from 15h20m to 23h5m

Feb. 5	6 55 19	e	vs			
	55 52	e	vs			
5	7 9 10	e	s			
	9 50	e	s			
-7	0 57 50	e	vs			
	1 2 10	e	vs			
	8 0	L				
	13.5	M	8	16		

Chiufeng reports damage in Kansu

7	9 19 5	i	s			
	24 32	i	s			
	25 0	i	s			
	27 50	i	s			
	33 0	i	s			
	45.07	L				

-8	12 19 42	e	vs			
	22 50	i				
	25 19	i				
	28.4	L				
	32.3	M	23	10		

10	18 12 9	i				
	14 40	i	s			
	16 3	i	s			
	17 23	S				
	20 25	L				
	21.2	M	9	13		

small but distinct

12	9 46 58	i	s			
	50 31	i	s			

remainder insignificant

14	23 11.5	L	vs			
	24.5	L	s			

possibly a separate disturbance

-15	12 53 50	P	-			
	54 51	i				
	55 14	i				
	59 23	S	-	35.1		
13	2 31	i				
	3 3	i				
	3 13	L				
	7.5	M	612	16		

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Seismological  
Bulletin No. 53 contd

Date	Time	Phase	A	t	Δ	Remarks
1936	h m s		μ	s	°	
Feb. 16	→14 22 42	i	vs			
	23 30	i	s			
	27 22	i	s			
	32.5ca	L				
	34.6	M	6	12		
21	16 4 24	GP	vs			
	5 17	PP	s			
	9 15?	CS				
	11 29	i				
	12 52	L				
	19.7	M	46	10.5		
→22	15 36 7	GP	+			
	36 13	1P				
	36.5	n	80	7		
	39 32	S	+		18.7	
	41.5	L				
	42.0	M	390	13		
→22	19 26 57	P	+			
	30 26	S	-			
	31.4	L				
	31.9	M	55	12		
→27	10 10 43	P	+			
	14 2	i	s			
	14 58	i				
	15 53	S				
	17 32	L				
	23.4	M	89	8		
→28	16 30 6	i	s			
	33 6	i	s			
	35 37	i	s			
	37 0	L				
	45.4	M	7	14		
Mar. →1	10 34 32	C	vs			
	35 48	i	vs			
	40 15	S	-			
	44 32	L				
	46.0	M	90	20		
→2	3 41 10	i				
	49 40	C	s			
	52.3	L				
	4 2.3	M	11	18		
→4	6 41 53	C	vs			
	48.5	M	3	7		

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Seismological

Universal

Date	Time	Phase	$\Delta$	$\Delta$	Remarks.
1936	h m s	$\mu$	S	°	
Mar. 6	14 34 34	C	vs		
	39 21	C	vs		
	47.0	L			
	48.5	M	14 18		
11	17 7 23	C	vs		
	9 54	L			
	14.6	M	5 13		
14	9 14 11	C	vs		
	17 28	C	S		
	23 0	L			
	26.6	M	6 16		
18	11 54 51	C	vs		
	59 33	C	S		
	12 3 40	I			dcw longer waves
	8 11	C			
	11 48	I			
11.9	M	6 10			
18	13 53 4	C	vs		
	57 20	I	S		
	59 17	I			
	1/ 2 29	I			
2.7	M	8 10			
21	0 1 10	I	vs		
	3 7	I	S		
	7 55	I	S		
	13 58	L			all amplitudes small
22	12 22 28	1P	vs		
	27 30	S			
	30 42	L			
	32.6	M	228 18		

23

clock stopped from 12h11m to 23h10m

Small or insignificant disturbances were recorded as follows:-

Jan. 31 13h; 14d 14h; 15d 10h; 16d 7h, 13h, 18h;

Feb. 10d 0h; 12d 5h; 22d 21h; 29d 20h.

Mar. 5d 6h; 17d 20h; 21d 2h; 25d 2h; 27d 2h; 29d 20h.

*W. M. Holmes.*

W. M. Holmes,

for Government Astronomer.

Seismological

MELBOURNE OBSERVATORY

Bulletin No. 34

South Yarra S.E.1 VICTORIA.

Milne-Shaw Seismograph No. 41 E-W Component.

Period 12 secs. Damping ratio 80:1. Tilt 1" = 44.7mm.

Date	Universal Time			Phase	A	t	$\Delta$	Remarks
	h	m	s					
1936 Apr. 1	2	17	30	e	vs			
		17	45	iP	-			
		18	7	m	16	10		
		19	43	PPP				
		23	52	i				
		24	20	S	-	44.9		
		27	40	SSS				largest amplitude of trace
		30.5		L				
		38.5		M	600	18		
	-1	20	10	37	e	vs		
		12	26	L				
		16.5		M	9	11		
-1	20	19	10	P				
		25	56	S		46.4		
		29	13	i				
		31.8		L				
		39.4		M	29	18		
-2	6	24	7	e	vs			
		28	52	i	s			
		29	18	S				
		31	28	i				
		32	50	L				
	37.5		M	107	13			
7	1	45	50	e	vs			all amplitudes small
		46	33	e	s			
		54	38	L				
9	7	31	25	i	s			
		33	0	i	s			
		35	13	i	s			
-9	16	8	36	e	vs			
		9	42	i	s			
		13	45	S				
		16	9	i				
		18.3		L				
		21.7		M	20	12		
-12	20	58	36	e	s			obscured by micros
	21	0	23	iP	s			
		1	49	i				
		3	59	PP				
		6	18	S		38.6		strongly marked
		9	48	SS				
		11	32	i				
		13	10	L				
	17.4		M	94	12			
18	1	1.7		i	vs			obscured by micros.
		2.5		L	s			

MELBOURNE OBSERVATORY  
SOUTH YARRA S.E. 1 VICTORIA.

Seismological  
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Date	Time	Phase	$\Delta$	$t$	$\Delta$	Remarks
1936	h m s		$\mu$	s	°	
Apr. 19	5 13 43	GP				
	13 45	IP				
	14 42	i				
	14 56	i				
	18 42	i				
	18 58	S		32.4		
	20 55	SS				
22 0	L					
30.5	M	420	13			
19	7 32.5					previous still recording
	39.7	M	15	10.5		
19	9 23 56	G				
	24 30?	L				
	38 7	L				new disturbances?
	48.0	M	37	20		
24	12 54 9	i	s			
	58 6	i	s			
	59 43	G				L?
13 2.1	M	9	10			
26	8 55 12	i				
	58.6	L				
9 2.7	M	20	16			
28	5 50 24	i				preceded by irregular micros for several hours
	52 33	i				
	53 10	L				
	56.6	M	74	13		
28	13 47 28	S				Adelaide reports "felt at Darwin N.T."
	48 30	SS				
	49 32	L				
	55.0	M	32	10		
29	8 18 48?	G	vs			
	22 57	i				
	24 2	G				
	24.7	m	15	15		
	25 50	i				
May 1	0 10 28	i				
	16 42	L				
5	19 55 32	i	s			
	58 14	i	s			
	20 0.5	L				
	9.4	M	15	10		

MELBOURNE OBSERVATORY SOUTH YARRA S.E.1 VICTORIA

Seismological Bulletin No. 34 contd.

Date	Universal Time			Phase	Δ	t	Δ	Remarks
	h	m	s					
1936 May 8	9	24	34	S	-			earlier phases obscured by micros which were troublesome throughout.
		28	0	i				
		31	26	i	s			
		32	18	i	s			
-11	17	34	23	C	vs			
		39	22	S				
		43	38	L				
		47.7		M	141	19		
11	20	36	34	C	vs			
		44.7		M	5	17		
-16	7	27	22	i				all amplitudes small
		30	14	G				
		36	9	i				
		43	50	C	44.36			
		44	36	i				
		49	4	G				
		51	32	i				
		52	37	i				
8	0	7	L					8 16
		0.7	M					
19	7	35	23	i				main feature smaller remainder insignificant.
		38	34	i				
		46	48	i	s			
-19	20	57	22	CP				obscured by micros.
	21	2	47	iS				
		4	13	i				
		4	30	SSSS				
		7	30	L				
		12.2		M	54	12		
19	21	52	26	L				
	22	4	16	L				
20	3	0	15	C	s			
		2	0	i				
		2	11	L				
		3.5		M	7	13		
-20	3	11	41	P	*			29.3 <sup>Δ</sup>
		16	39	S				
		18	31	L				
		23		M	525	15		
-21	3	2	3	i	vs			
		5	42	G	vs			
		6	27	L				
		10.4		M	33	20		

MELBOURNE OBSERVATORY

Seismological  
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Universal

SOUTH YARRA S.E.1 VICTORIA

Date	Time	Phase	$\Delta$	$t$	$\Delta$	Remarks
1956	h m s		$\mu$	s	°	
May 22	23 26 49	c				
	31 20	i				
	31 43	i				
	35.0	ML				
	35.7	M	41	20		
22	19 24 40	c				
	28 3	L				
	30.8	M	4	14		
24	22 13 10	c				
	14 0	L				
	14.5	M	12	20		
25	3 14 52	c				
	17 53	i				
	18 23	e				longer waves
	24.7	M	28	12		
25	13 42 14	c				
	46 20	L				
	51.2	M	6	12		
27	6 32 5	P				
	35 34	PP				
	42 25	S				
	42.8	m	51	11		82.3 most important feature
	48 32	SS				
	52.7	SSS				
	55 18	i				
7 3	L					
	13.7	M	57	21		
28	19 18 11	c				
	19 10	e				
	24 30	e				
	41 20	L				
	56.9	M	7	14		
June 3	10 8.0a	L				
	14.4	M	6	20		
5	14 45 13	c				
	46 31	i				
	54 32	e				
	59 50	i				
9	16 54 2	GS				
	17 6.7	L				
	10.3	M	7	20		
10	8 30 26	e				
	34 15	S				
	34 40	i				
	35 32	L				
	39.6	M	131	11		



MELBOURNE OBSERVATORY

SOUTH YARR. S.E.1 VICTORIA

Seismological  
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Date 1936	Universal Time			Phase	μ	t s	Δ °	Remarks
	h	m	s					
June 11	13	4	53	c	vs			
		7	23	c				
		10.7		L				
		13.4		M	45	14		
13	9	7	35	2	vs			
		11	33	1	s			
		13	20	1	s			
16	0	4	37	1	s			
		52	25	1				
		54	2	1				
		54	23	1				
		56	40	c				
		57.8		M	7	13		
28	6	55	53	c	vs			
		56	55	L				
		58.5		M	8	11		
-30	15	19	38	P				
		30	30	c				
		30	53	S				
		31	10	1				
		36	20	1				
		44	12	L				
		52.5		M	49	14		

Small and insignificant disturbances were recorded as follows:-

April 3d 0h; 6d 0h; 13d 4h, 21h; 14d 12h, 16h; 15d 6h, 19h; 16d 1h, 9h; 19d 17h;  
20d 3h, 8h, 13h; 23d 23h; 24d 16h; 26d 5h; 27d 0h; 29d 3h; 30d 21h  
May 1d 17h; 4d 22h; 7d 22h; 8d 5h; 14d 5h; 22d 1h; 15h, 17h; 24d 12h;  
26d 13h.  
June 1d 11h, 13h; 6d 6h; 8d 2h; 17h; 12d 16h, 19h; 22d 5h, 11h, 22h; 23d 1h.

Small and very small amplitudes are denoted by "s" and "vs" respectively

*J. M. Baldwin.*  
J. M. Baldwin,

Government Astronomer.

REPORT ON THE SEISMOLOGICAL OBSERVATIONS AT THE STATION DURING THE YEAR 1954

Geological Survey of India  
Observatory No. 100  
University of Madras

Station	Instrument	Period	Remarks
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30

The following are the instruments used during the year 1954:

1. Seismograph No. 100, University of Madras, Madras.  
2. Seismograph No. 101, University of Madras, Madras.  
3. Seismograph No. 102, University of Madras, Madras.  
4. Seismograph No. 103, University of Madras, Madras.  
5. Seismograph No. 104, University of Madras, Madras.  
6. Seismograph No. 105, University of Madras, Madras.  
7. Seismograph No. 106, University of Madras, Madras.  
8. Seismograph No. 107, University of Madras, Madras.  
9. Seismograph No. 108, University of Madras, Madras.  
10. Seismograph No. 109, University of Madras, Madras.

*[Signature]*  
S. S. Srinivasan  
Government Astronomer

Seismological  
Bulletin No. 35

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Milne-Shaw Seismograph No. 41 E-W Component.

Period 12 secs. Damping ratio 20:1. Tilt 1" = 40.4mm.

Date	Time	Phase	A	t	$\Delta$	Remarks.
1936	h m s		$\mu$	s	$^{\circ}$	
July-3	3 5 3	iP	vs			
	5 13	i	s			
	10 13	S			31.7	
	12 40	L				
	15.3	M	124	17		
-5	19 3 43	eP	s			
	4 10	i	s			
	5 35	e				
	10 19	S	44.8			
	10 52	i				
	13 50	i				
	14 17	SSS				
	14.5	m	140	15		
	16.9	L				
	24.5	M	73	18		
6	18 34 44	i	s			
	38 15	i	s			
	43 42	eL	s			
-12	2 55 51	i	vs			
	58 18	e	vs			
	3 3 2	e	vs			
	5 17	L?				
	14.5	M	6	14		
-13	11 26 42	eP	vs			
	30 25	P'	s			
	31 18	PP-				
	37 13	SKS				
	37 53	SKKS				
	40 48	PS				
	46 53	SS			112.5ca	
	57 30	i				
	58.7	m	292	35		
	12 1 50	L				
	5.9	M	240	23		
14	10 3 0	e	s			
	5 5	i	s			
	8 13	L				
	13.4	M	3	8		
14	22 39 28	i	s			
	40 45	L				
	41.8	M	5	10		
15	11 23 18	e	vs			
	23 28	i	s			
	24 22	L				
	25.8	M	10	10.5		

destructive in Chile

fairly large micros throughout.

Seismological  
Bulletin No. 35 contdMELBOURNE OBSERVATORY  
SOUTH YARRA SE. E VICTORIA

Date 1936	Universal Time			Phase	A $\mu$	t s	$\Delta$ °	Remarks
	h	m	s					
July 23	6	34	55	e	vs			
		43	7	L				
		44.5		M	7	16		
26	8	2	4	i	vs			from distant source.
		23	42	i	s			
		28	40	L	s			
27	20	14	43	e	vs			
		19	30	i	s			
-28	5	27	44	e	s			
		30	38	S				
		35	12	L				
		41.0		M	47	10		
-28	8	0	53	e	vs			
		4	53	S				
		7	22	SS				
		9	48	L				
		15.5		M	36	9		
-30	14	16	3	i	vs			
		21	42	i	vs			
		25	33	L				
		29.0		M	52	17		
Aug. 12	11	38	23	i	s			
		40	4	L				
		40.9		M	5	10		
-13	20	11	38	e	vs			P?
		13	31	i	vs			
		18	42	i	-			S?
		21	21	i	-			
		21	50	i	-			SS?
		25	50	L				
		29.5		M	17	20		
16	13	21	32	L				preceded by micros.
		22.5		M	18	16		
-17	6	31	ca	e	vs			
		36	12	L				
		37.3		M	7	15		
-17	14	6	47	e	vs			
		11	49	i	s			
		15	44	L				
		18.4		M	27	13		
-22	7	2	13	P	s			
		10	37	S				62.1
		17	50	L				
		30.4		M	47	19		

Seismological  
Bulletin No. 55 contd.  
Universal

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Date	Time	Phase	A	t	Δ	Remarks
1936	h m s		μ	s	°	
Aug. 23	21 22 41	P				
	23 0	i				
	26 45	PPP				
	31 10	S			62.9	
	44 27	L				
	53.3	M	84	17		
24	22 26 13	i				obscured by strong micros.
	28 28	i				
	29 1	i				
	30.4	m	27	10		
25	19 0 26	e	vs			
	10 47	i	s			
	12 0	L				
28	6 49 17	e	s			
	52 55	L				
	55.7	M	22	18		
Sept. 3	11 58ca	L				
3	12 34 22	e	s			
	36 31	e				
	36 53	e				
	38 40	L				
	39.8	M	13	20		
4	8 29 47	i	s			
	30 47	i	s			
5	22 5 13	i	s			
	5 3	L				
	6.4	M	11	15		
6	17 46 52	i	vs			
	56 0	i	s			
18	1 0	i				
	3.5	M	13	17		
19	1 11 56	P	+			
	12 10	i				
	20 0	e				
	20 13	iS			60.9 <sup>Δ</sup>	
	20 46	PS				
	21 45	ScS				
	28 23	L1				
	30 27	L2				
	41.0	M	162	16		
19	6 57 13	e	vs			
	59.6	L				
7	9.5	M	8	18		

MELBOURNE OBSERVATORY.  
SOUTH YARRA S.E.1 VICTORIA.

Seismological  
Bulletin No. 35 contd.

Date 1936	Universal Time			Phase	A ←	t s	Δ °	Remarks
	h	m	s					
Sept. 20	16	37	30	e	s			
		41	48	i	s			
		47	26	L				
		48.7		M	6	20		
29	16	42	30	i	s			
		46	19	i				
		49.5		L				

Small and insignificant disturbances were recorded as follows:-

July 2d 19h; 21d 0h; 17h; 22d 6h; 23d 22h; 27d 9h.

August 14d 4h, 22h; 15d 2h, 5h; 17d 17h; 30d 17h, 21h.

September 3d 14h; 5d 17h; 9d 2h; 16d 9h; 17d 17h; 23d 6h; 25d 13h.

In the column for amplitudes small and very small values are indicated by s and vs respectively.

*J. M. Baldwin.*

J. M. Baldwin,

Government Astronomer.

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.V. VICTORIA.

Seismological Bulletin No. 36 Mil. ne-Shaw Seismograph No. 41 E-W Component. Period 12 secs. Damping ratio 20:1. Tilt 1" = 41.9mm.

Date	Universal Time	Phase	A	t	Remarks
1936	h m s				
Oct. 2	13 2.3	e	vs		
	6 0	e	vs		
	10.8	M	3	9	
-3	21 58 19	P	+		
	22 0 0	i			$\Delta$ three waves of longer period
	5 0	S			45.6
	5 22	i			
	6 5	i			
	8 7	i			
	10 58	i			
	14 50	L			
	20.5	M	43	15	
-4	23 59 57	P			
5	0 1 7	i			
	5 2	S?			$\Delta$ 30.9?
	5 35	i			may be S
	8 30	L			
	10.8	M	126	18.5	
-5	9 52 23	P			
	54 3	PP			
	58 45	S			$\Delta$ 42.7
10	1 43	SS			
	3 45	L			
	13 5	M	141	18	
13	6 48 44	e	s		obscured by heavy micros
	7 1.99	m	5	10	no phases recognised.
-14	22 21 27	e	vs		may be P
	25 55	S	s		
	28 43	L			
	30.6	M	16	20	
-16	12 8 23	i	s		minute traces earlier
	11 24	L			
	14.8	M	23	16	
-19	12 11 53	P			
	13 28	PP			
	18 0	S			$\Delta$ 40.4
	26 0	L			
	27.2	M	85	17	
22	10 8 40	e	vs		
	10 44	e	s		
	12 53	L			
	14.3	M	8	12	

MELBOURNE OBSERVATORY

Seismological Bulletin No. 36 contd. SOUTH YARRA S.E. & VICTORIA

Date	Time	Phase	A	t	Δ	Remarks.
1936	h m s		μ	s	°	
Oct. 23	6 43 34	e	vs			from remote source
	51 39	i	s			
	53 30	i				
	59 22	i				
	7 12 24	L				
	31.3	M	12	20		
23	19 36 52	e				
	36 58	i				
	37 37	i				
	41.4	M	33	9		
24	18 11 0	e	vs			
	17.4	M	4	13		
26	19 49 37	e	vs			minute traces earlier
	59.2	L				
	20 12.3	M	7	17		
29	18 48 23	eP	vs			
	55 14	S			47.1	
	19 2 25	L				
	8.0	M	97	13		
31						record lost from 0h to 3h 10m
31	15 7 18	i	vs			
	8 19	i	s			
	12 18	e	s			
	15 31	L				
	17.8	M	8	15		
Nov. 2	15 13 45	e	vs			
	20 56	i				
	21 13	iS				
	26 33	i				
	34 43	L				
	44 0	M	13	20		
2	20 58 30	iP	vs			
	21 7 20	S	-		66.5	
	12 4	SS				
	15 40	i				
	18 42	L				
	25.5	M	153	26		
4	13 57 21	i	s			
	14 1 21	i				
	3 50	i	s			
	7 55	i	s			
8	12 33 47	e	vs			extremely small movement
	38 10	eL	vs			
	39.4	M	4	17		



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SOUTH YARRA S.E.1 VICTORIA.

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Date	Time	Phase	A	t	Δ	Remarks
1936	h m s		u	s	o	
Nov. 11	10 29 10	e	vs			
	33 39	i	s			
	34.7	M	4	17		
12	2 24 28	e	vs			
	32 39	iS	s			
	33 7	i	s			
	37 0	i	s			
	45.5	m	4	13		
12	8 44 40	i				
	53 13	L				
	57.5	M	6	16		
13	12 45 7?	e	vs			
	46 10	e	s			
	55 23	s	s			
	56 12	S				
13	3 14	SS				
	12 43	L1				
	18 32	L2				
	21.7	M	37	17		
15	21 56 39	i	s			possible traces earlier
	59 18	i				
22	1 49	i				
	5 0	ii				
	5.3	m	7	10		
19	21 30 22	i	s			
	36 30	i	s			
	48 28	sS				
	52 50	e				
22	8.7	L				
	11.4	M	14	22		
22	14 50 0	P	s			
	55 20	S?				33.1?
	59 0	L				
15	0.8	M	17	20		
22	18 40 21	e	vs			possibly PP
	45 20	e	s			[S]
	57 27	e	s			SS
19	18 ca	L				
	22.4	M	10	22		
24	17 22.5	L	vs			
	25.3	M	5	14		
26	8 40 0	i	vs			
	40 15	i	vs			
	48 26	e	s			

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SOUTH YARRA S.E.1 VICTORIA

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Date 1936	Universal Time			Phase	A	t	Δ	Remarks
	h	m	s					
Nov. 29	8	31	42	eP				
		36	25	S				
		36	48	i				
		39	37	L				
		43.4		M	39	12		
	-30	23	53 18	eP				
			55 4	i				
			59 25	S			40.4	
		24	6 38	L				
			9.2	M	44	17		
Dec. 1	-6	28	48	S				
		41	35	L				
		33.3		M	13	20		
	2	18	23 30	i				
			26 4	i				
			28.3	M	7	10		
	3	3	21 12	i	s			
			25 5	i				
			26.8	M	6	12		
	-4	22	32 10	P	s			
			36 36	e				
			36 50	S			27.4	
			39 48	L				
			42.8	M	15	13		
	5	19	8 48	e	s			
			9 23	e	s			
			12 44	L				
			14.9	M	7	13		
	13	21	47 16	iS				record fogged after 51m
	18	10	16 14	i	vs			only perceptible because of absence of micros
			21 26	i	vs			
			25 26	i	vs			
	19	10	50 30	i	vs			
			53 7	i	vs			
			55 26	e	s			
			57.4	m	3	6		
	-20	18	38 25	i	s			
			45 15	i				
			48 2	i				
			49 0	i				
			54 30	L				
		19	1.7	M	10	16		

## MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Seismological  
Bulletin No. 36 contd

Date 1936	Universal Time			Phase	A $\mu$	t s	$\Delta$ °	Remarks
	h	m	s					
Dec. 22	8	42	ca	e	vs			times only approximate; time marks failed
		45.2		i				
		47.6		L				
		52.8		M	7	12		
23	6	42	11	S				
		43	50	L				
		44.5		M	13	10		
26	22	59	50	P	-			
	23	0	12	i				
		4	7	i				
		4	23	S			26.5 <sup>Δ</sup>	
		6	40	L				
		9.6		M	99	18		
27	8	55	0	i	s			
		58	29	i				
	9	0.4		m	5	13		
29	14	54	35	P	-			
		59	53	S			32.8	
	15	3	3	L				
		5.1		M	604	20		

Small and very small amplitudes are indicated by s and vs respectively.

Insignificant disturbances were recorded as follows:-

Oct. 5d 6h; 10d 3h; 11d 12h; 15d 21h; 21d 14h; 29d 6h.

Nov. 4d 7h; 7d 22h; 8d 10h; 12d 1h; 17d 2h; 18d 14h; 20d 2h; 30d 17h.

Dec. 1d 17h; 5d 5h, 14h; 6d 0h, 4h; 8d 10h, 14h; 14d 4h; 16d 19h; 17d 3h, 13h, 21h; 20d 3h; 21d 17h; 19h; 25d 20h; 29d 14h.

*J. M. Baldwin.*  
J. M. Baldwin,

Government Astronomer.

Station	Component	Amplitude	Duration	Remarks
11	V	2.5	11	23.00
	U	2.5	11	
	D	2.5	11	
12	V	4.5	11	23.00
	U	4.5	11	
	D	4.5	11	
13	V	4.5	11	23.00
	U	4.5	11	
	D	4.5	11	
14	V	4.5	11	23.00
	U	4.5	11	
	D	4.5	11	
15	V	4.5	11	23.00
	U	4.5	11	
	D	4.5	11	

Small and very small amplitudes are indicated by a and vs respectively.

Independent displacements were recorded as follows:-

Oct. 24 06:104 104:104 104:104 104:104 104:104 104:104

Nov. 24 104:104 104:104 104:104 104:104 104:104 104:104

Dec. 24 104:104 104:104 104:104 104:104 104:104 104:104

Jan. 24 104:104 104:104 104:104 104:104 104:104 104:104

Feb. 24 104:104 104:104 104:104 104:104 104:104 104:104

Mar. 24 104:104 104:104 104:104 104:104 104:104 104:104

Apr. 24 104:104 104:104 104:104 104:104 104:104 104:104

May 24 104:104 104:104 104:104 104:104 104:104 104:104

Jun. 24 104:104 104:104 104:104 104:104 104:104 104:104

Jul. 24 104:104 104:104 104:104 104:104 104:104 104:104

Aug. 24 104:104 104:104 104:104 104:104 104:104 104:104

Sept. 24 104:104 104:104 104:104 104:104 104:104 104:104

Oct. 24 104:104 104:104 104:104 104:104 104:104 104:104

Nov. 24 104:104 104:104 104:104 104:104 104:104 104:104

Dec. 24 104:104 104:104 104:104 104:104 104:104 104:104