

Period 12 secs. Damping ratio 20:1 Tilt 1" = 43.5mm.

Date	Universal Time	Phase	A	t	$\Delta$	Remarks
1934	h m s		$\mu$	s	°	
Jan. 1	6 29 48	e				
	32 5	i				
	34 7	i				
	36 33	i				
	37 43	i				
	40 3	L?				
	40.9	M	31	12		
2	17 38 13?	e				very small
	40 35	e				
	42 30	L				
	44.9	M	22	10		
2	21 48.5?	L				
	22 0.7	M	2	20		
3	9 55.5	e				very small
	10 5 45	i	22	9		largest wave in disturbance
	7 43	i				second largest wave; all others small
	20ca	L				
15	8 56 0	P				destructive in Bihar, India.
	56 14	i				
	9 6 24	S				
	12 13	SR1				83.9°
	16 2	SR2				
	23ca	L				
	34	M	828	22		
16	18 48 23	i				P?
	55 20	i				S?
	58 50	i				SR1?
	19 7	L				
27	5 10.3	e				
	12.1	M	4	12		
28	19 30 27	ePR1				identification assisted by USCGS report
	35 52	[S]				
	40 15	S				
	41 33	PS				
	47 15	i				
	51 20	i				
	20 5.9	L				
	10.8	M	12	20		
29	13 2 15	i				small
	6 15	i				"
	7 43	i				"
	12.7	M	4	13		
30	20 30 25	e				
	30 32	M	4	4		probably Gunning, N.S.W.

continued on next sheet

Seismological MELBOURNE OBSERVATORY SOUTH YARRA S.E.1 VICTORIA.  
 Bulletin No. 25 cont'd

Date	Universal Time	Phase	A t Δ	Remarks
1934	h m s		μ s	
Jan-31	10 14 31	i		small
	16 28	i		
	21 22	i		
	24 42	i		
	27 33	L		
	27.9	M	24 30	
Feb-2	15 17 35	S		micros strong
	20 2	SR1		
	22 7	L		
	25.0	M	145? 8?	
2	18 44 22	e		
	45 23	L		
	46.3	M	20 16	
3	14 40 20?	P		obscured by micros
	44 3	S	20.6?	
	48 12	L		
	50.1	M	87 20	
4	14 20.3	e		shallow waves
	41.0	M	9 20	
4	22 9 4?	P		
	13 44	S	27.0?	
	18 24	L		
	24.3	M	34 13	
5	10 31 42	e		small
	32 50	L		
	33.3	M	11 19	
7	1 56 4	e		
	57 10	L		
	58.4	M	8 12	record lost from 3h to 12h.
9	9 36 14	e		very small
	40 51	S		
	42 50	L		
	48.2	M	22 15	
11	9 11 16	e		small
	13 36	i		
	15 39?	L		
	17.2	M	11 13	
14	1 28 2	i		very small
	33 20	i		" "
	37 5?	L		
	38.6	M	5 7	
14	4 9 46	P		
	17 56	S	59.7	
	18 11	PS		
	19 44	Z		

PTC

continued on next sheet

Seismological  
Bulletin No. 25 contd

MELBOURNE OBSERVATORY

SOUTH YARRA S.E. 1 VICTORIA

Date 1934	Universal Time			Phase	A $\mu$	t s	$\Delta$ °	Remarks
	h	m	s					
Feb. 14	4	26	23	i				SR3?
		27	12	i				six long period waves
		36.0		M	84	19		
14	9	42.8		L				very shallow waves
		44.5		M	2	19		
17	21	15	3	e				
		22	53	L				
		25.1		M	10	14		
18	12	58	3	e				
		59	10	L				
	13	0.2		M	5	17		
19	10	34	16	e				very small
		40	42	i				
	11	2		M	11	11		
24	6	34	25	P				
		42	3	S		54.6		
		42	23	i				
		46	17	SR1				
		49	0	i	87	20		
		51	24	L				
		54.1		M	158	20		
27	21	41	7	i				
		43	24	i				small
		44	55	L				
		46.9		M	22	13		
28	14	28	36	eP				
		33	38	S		30.2		
		37.5?		L				
		43.9		M	134	10		
Mar. 1	3	58	16	e				very small
	4	1	54	i				
		4	15	L				
		8.1		M	7	13		
1	19	52	47	S				earlier phases extremely small
		56	30	i				
		58	11	L				
	20	1.5		M	19	16		
1	21	58	38	e				very small
	22	9	39	iS				largest waves
		10	40	i				
		16	3	i				
		26	2	i				nothing distinct after this.
2	13	29.6?		e				very small
		39.5?		L				small

Seismological  
Bulletin No. 25 contd  
Universal

MELBOURNE OBSERVATORY  
SOUTH YARRA S.E. 1 VICTORIA

Date	Time	Phase	A	t	$\Delta$	Remarks
1934	h m s		$\mu$	s	°	
Mar. 2	19 58.1	e				very small
	20 2.5	L				
	7.5	M	6	15		
-4	6 1 15	eP				
	1 21	i				
	5 55	S			27.0	
	7 48	SR1				
	9 27	L				
	11.0	M	55	22		
4	11 51 33	P				
	55 55?	S			24.8?	very difficult to decipher owing to overlapping record off paper from 11h 58m to 12h 4m
	58	L				
	?	M				
6	13 2 13	i				small throughout
	5 45	L				
	9.2	M				
-10	8 2 33	P				
	7 3	S			15.8	
	10 1	L				
	12.8	M	11	15		
12	15 26 12	e				small throughout
	36 15	i				apparently from distant source
-13	13 18 17	eP				
	23 32	iS			31.9	
	26 30	L				
	30.2	M	174	20		
-15	10 51 58	P				
	56 28	S			25.8	
	58 22	L				
	11 1.4	M	81	20		
-16	14 24 57	i				somewhat obscured by micros
	26 13	e				
	28 53	i				
	29 40	L				
	34.1	M	14	10		
18	4 56 40	i				well marked; remainder obscured by micros
-20	2 50 16	S				earlier phases very small
	52 50	L				
	57.2	M	162	20		
-24	12 10 51	e				
	10 56	iP				
	15 58	S			30.0	
	18.0	L				
	19.3	M	744	23		

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Seismological  
Bulletin No 26

MELBOURNE OBSERVATORY  
SOUTH YARRA S.E.1 VICTORIA  
MILNE-SHAW SEISMOGRAPH No.41; E-W COMPONENT.

Period 12 secs. Damping ratio 20:1 Tilt 45.8mm = 1".  
Universal

Date	Time	Phase	A	Period	Remarks.
1934	h m s		$\mu$	secs.	
Mar. 27	3 31 20	e			very small
	35 50	i			
	41 0	L?			
	42.3	M	10	17	
Apr. 3	8 33 59	i			very small; obscured by micros.
	39 25	i			
	42 5	L			
	45.5	M	11	15	
8	3 23 52	i			small; obscured by strong micros
	25 7	i			
	27 45	L			
-9	15 52 34	iS			
	53 33	i			
	58 13	i			
	16 9.2	L			
	18.5	M	7	19	
-10	10 30 40	P			
	32 17	PR1			
	36 53	S			$\Delta-40.9$
	40 5	SR1			
	42.7	L			
	46.7	M	45	20	
-11	21 17 42	P			
	18 30	PR1			
	22 15	S			$\Delta-26.2$
	23 57	SR1			
	26 40	L			
	30.9	M	32	14	
14	8 58 14	i			small
	9 1.5	L			
-15	22 23 45	eP			obscured by micros
	24 33	i			beginning of phases not very definite
	26 23	PR1			
	31 13	S			$\Delta 52.9$
	31 41	i			
	34 55	SR1			
	37.3	L			
	46.5	M	99	17	
16	4 15 16	e			small; obscured by micros
	18 52	i			
	29.5	L			
-24	2 11 0	S			
	12 28	SR1			
	14 10?	L			
	17.6	M	16	10	

Seismological  
Bulletin No. 26

MELBOURNE OBSERVATORY  
SOUTH YARRA S.E.1 VICTORIA

Universal

Date	Time	Phase	A	Period	Remarks
1934	h m s		$\mu$	secs	
Apr. 24	17 45 53?	e			
	50 17	i			
	→ 54 16	i →			
	56 42	i			
	18 0.7	M	16	18	very
26	5 37 51	6P			
	42 23	S			
	45 0	L			$\Delta = 26.0$
	48.7	M	32	15	
26	8 2 42	e			similar to preceding
	3 32	i			
	3 44	i			
	7 30	S			
	10 55	L			
	13.8	M	30	14	
26	13 49 30	e			small
	54 24	i			
	58 34	i			
	14 5.3	L			
	8.4	M	7	14	
26	21 6 33	iP			small
	11 40	S			$\Delta = 30.8$
	15 15	L			
	19.8	M	33	13	
27	3 24 44	i			small; obscured by micros
	26 45	L			
	29.1	M	5	9	
27	20 52 46	e			
	53 20	i			
	53 33	i			
	57 13	eS			
	58 0	i			
	21 1	L			
	3.8	M	118	14	
27	22 55.0	e			small; obscured
	23 2.2	eL			
	3.3	M	7	13	
28	15 20 52	i			small; obscured
	24 32	L			
	30.8	M	7	13	
28	18 14.5	e			very small
	18 38	L			
	24.8	M	3	9	
May 1	7 22 58	i			largest wave in train
	23 56	i			
	40	M	4	17	

Date	Universal Time			Phase	A $\mu$	Period secs	Remarks
	h	m	s				
1934 May 3	1	48	15	e			small
		50	36	e			
		58	24	i			
-4	4	55	32	P			identification aided by USCGS report
	5	5	23	PS			
		11	15	SR1			
		15	7	i			
		19	6	i			
		30	17	L			
		32.8		M	35	28	
-5	14	38	30	P			$\Delta = 27.7$
		38	53	i			
		39	24	i			
		43	15	S			
		45	37	L			
		48.1		M	22	18	
5	16	57.5		e			very small
	17	3	42	L			
8	19	29	48	i			small
		33	12	i			
		41.4		M	5	15	
11	18	34	6	e			
		37	10	i			
		38.8		M	3	10	
-13	9	8	47	P			$\Delta = 32.6$
		14	6	S			
		17	42	L	52	10	
17	22	23.7		e			very small
		29	12	i			
		35.1		M	3	10	
25	19	6.6		e			small
		12.0		M	3	7	
June 3	16	23	30	e			very small
		27	45	i			
		28	4	i			
		29	56	L			
-3	21	13	32	e			small
		16	10	i			
		20	0	i			
		20	42	L			
		21.7		M	36	15	
6	3	35	7	i			small; from distant source
		40	44	e			

Seismological  
Bulletin No. 26

MELBOURNE OBSERVATORY

SOUTH YARRA S.E. 1 VICTORIA

Universal

Date	Time	Phase	A	Period	Remarks
1934	h m s		"	secs.	
June 9	13 5 30	eP		small	
	10 9	S			
	10 58	i			$\Delta = 26.9$
	12 53	i			
	14 42	L			
	19.2	M	67	13	
13	2 3 8	iP			very small
	13 13	S			$\Delta = 80.3$
	13 57	i			
	18 28	i			remainder small
13	17 9 24	i			very small
	13.3	M	2	8	
13	22 24 6	e			very small
	28 25	e			small
	36 13	iS			
	38 52	i			
	45 22	i			
	49 4	e			
23	2 0	L			
	4.3	M	23	25	
15	3 0 22	e			small
	3 35	i			
	6.4	L			
	13.7	M	9	11	
22	18 7 55	iS			
	10 33	SR1			
	12 57	L			
	16.8	M	8	13	
24	3 36 13	i			
	38 34	L			
	43.4	M	9	13	
24	6 18 45	i			
	19 34	i			
	25 18	e			
	27 3	e			
	28 20	i			
	28 53	i			
	34 55	i			
	42 28	i			most prominent feature nothing definite after this
28	1 8 12	iS			in heavy micros
	11 3	i			
	13 20	L			
	14.9	M	14	12	
29	8 31 30	iP			
	33 12	i			
	36 28	iS	69	12	$\Delta = 29.4$ ; largest wave in train.
	39 48	iL			
	40 16	i			
	40 24	i			



Date 1934	Universal Time			Phase	A	Period secs	Remarks
	h	m	s				
June 29	12	40	53	i	μ		very small
		43	10	i			
		46	34	i			
		49	57	i			
		57.7		L?			
30	8	29	52	L	3	14	
		33.6		M			
30	12	8	5	e	30	12	
		11	2	S			
		12	0	L			
		13.5		M			
30	20	3	e	2	12	very small	
		9.5					M

Small undecipherable records were made as follows:-  
 April 6d 19h; 13d 14h; 16d 12h; 21d 6h; 26d 16h;  
 May 9d 5h; 22d 1h, 3h;  
 June 2d 15h; 6d 10h; 10d 19h.

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SEISMOLOGICAL OBSERVATORY  
SOUTH YAKAL, S.E. I. VIETNAM

Date: 1954  
June 29

Date	Time	Phase	A	Period	Remarks
1954 June 29	12 40 55	1			very small
	45 10	1			small
	45 34	1			main features in train
	45 58	1			
	47 17	1			
30	8 59 32	1			
	11 0	3			
30	12 8 2	e			
	11 5	3			
	12 0	1			
	13 2	M 30			
30	20 3	e			very small
	2 2	M 2			

Small undetectable records were made as follows:-  
April 24 1954; 134 144; 144 154; 214 224 144;  
May 24 25; 244 254;  
June 24 1954; 24 1954.

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Period 12 secs. Damping ratio 20:1 Tilt 1" = 43.7 mm.  
Universal

Date	Time	Phase	A	Period	Remarks	
1934	h m s		s.	s.		
July 4	2 5 42	i	4	19		
	27.1	M				
4	13 38.2?	eL				
	45.3	M	6	18		
-6	23 15 25	e			small; possibly $\Sigma$	
	18 35	i			"	
	24 23	SR1				
	39.5	L				
	51.9	M	14	18		
-12	14 37 13	e			small	
	44 5	i				
	44 48	i				
	45 10	i				
	47 56	L				
	48.6	M	22	18		
Record lost from 13d 18h to 16d 23h driving clock under repair						
-18	1 52 25	P			$\Delta$ 132° ea. Identification aided by press reports. McElvan's tables.	
	55 40	P1				
	57 38	PR1				
	59 0	SPP				
2	2 41	(S)				
	4 30	$\Sigma$				
	5 53	S				
	7 32	PPS				
	15 11	SR1	503	31		largest wave in train
	19 48	SR2				
	35.0	L				
	40.1	M	132	20		
6	30	F				
18	13 9 52	e			very small	
	15 23	i			small	
	18 13	i			"	
	20 22	i			"	
-18	17 21 2	e			very small; possible traces earlier.	
	22 12	i			small	
	25.59	(S)			identification aided by reports from U.S.C.G.S. and J.S.A.	
	27 59	$\Sigma$			same epicentre as at 1h 52m.	
	31 0	PS				
	32 32	PPS				
	38 40	SR1				
	43 0	S2				
	59	L				
18	6.0	M	26	22		

Date	Time	Phase	A	Period	Remarks
1934	h m s			s	
July 18 =	19 46 43	eP			destructive at Vanikoro, Solomon Is. $\Delta 35.7$ (Jeffreys)
	46 50	iP			
	52 3	S			
	53 58	SRI			
	55	L			
	57.5	M	>360	15?	off paper
-19	0 13 8	eP			small $\Delta 31.3$
	13 23	i			
	18 19	S			
	21 0	i			
	22 36	L			
	24.7	M	52	12	
-19	1 35 11?	eP			confused by previous disturbance $\Delta 34.5?$
	40 43	S			
	44 52	L			
	48	M1	248?	12?	
	52	M2	392	17	
19	5 6 36	i			comparatively small throughout.
	9 10	i			
	12 50	L			
	20.2	M	8	12	
-19	5 51 43	P			$\Delta 32.1$
	56 47	i			
	57 0	S			
	59.33	L			
	6 3.9	M	46	15	
-19	7 43 16	P			$\Delta 31.7$
	48 30	S			
	50 0	L			
	58.5	M	171	15	
19	12 11 3	i			small
	16 42	i			
	18 0	L			
	19.6	M	5	12	
-19	23 4 4	e			very small small
	9 7	i			
	11 52?	L			
	15.8	M1	10	14	
	20.5	M2	10	10	
20	1 6 36	i			very small small
	10 25	i			
20	3 58 49	i			small "
	4 3 51	e			
	6 24	e			
	9.4	m	4	12	
20	8 10 45	e			
	15 10	m	5	16	

SEISMOLOGICAL BRITISH NO. 27 contd. MELBOURNE OBSERVATORY SOUTH YARRA S.E.1 VICTORIA

Date	Time	Phase	A	Period	Remarks
1934	h m s		$\mu$	s.	
July 20	16 59 52	i			small
	17 2 25	i			small
	4.3	L			
	7.2	M	6	12	
20	18 18 23	e			very small
	22 11	i			
	25 13	i			
	28 5	L			
	34.5	M	23	15	
20	19 0 39	i			previous still recording
	3 18	i			
	5 40	i			
	7.8	M	45	15	
-21	6 24 49	P			
	30 22	S			$\Delta 34.7$ (Jeffreys)
	33 7	L			
	38.7	M	>370	14	
-21	11 1 41	i			small
	10 23	e			"
	18 7	i			putstanding feature
	19 9	e			
	20 35	i			
	22 34	i			
	39 38	L			
	41	M	21	19	
-21	20 23.3	e			very small
	29 0	i			small
	35.1	M	6	12	
22	3 4 23	eP			
	9 42	S			$\Delta 32.5$
	9 58	i			
	11 48	L			
	16.5	M	38	16	
-23	13 9.7	e			very small
	14 47	i			small
	21.6	M	3	12	
-27	12 32 5	eP			2 extremely small
	37 17	iS			$\Delta 31.5$
	40 33	L			
	44.5	M	18	16	
-28	22 3 7	i			$\Sigma$ ? J.S.A. reports Alaska
	10 30	i			SR1?
	15 13	i			SR2?
	21 0	i			
	27 36	L			
	29.6	M	14	20	
30	3 48 0	L			
	54.1	M	4	12	

Seismological Bulletin No. 27 contd. MELBOURNE OBSERVATORY SOUTH YARRA S.E.1 VICTORIA.

Table with columns: Date, Universal Time (h m s), Phase, A, Period (μ s), Remarks. Includes entries for Aug 2, 4, 7, 9, 11, 12, 13.

Seismological Bulletin No. 27 contd. **MELBOURNE OBSERVATORY**  
**SOUTH Y. RAIL S.E. 1 VICTORIA.**

Date	Universal Time			Phase	A	Period	Remarks
	h	m	s				
1934 Aug. 14	8	55	52	i			small and obscured by micros
		56	47	i			
		57	6	i			
	9	1	14	S			
		7.5		m	6	12	
21	9	52.4		e			very small
		53.8		i			
		57	15	L			
		57.7		M	4	14	
21	19	43	54	S			
		55ca		L			
	20	1.3		M	12	20	
22	0	49	50	i			small
		55.6		L			"
23	23	35	9	e			hardly separable from micros
		41	34	iS			
		43	42	i			
		45	48	L			
		47.4		M1	13	16	
		50.3		M2	14	12	
23	23	53	36?	iP			previous still recording
24	0	0	0	iS			$\Delta 42^{\circ}.6?$
		2	22	SR1			
		4	7	L			
		5.5		M	46	20	
24	record lost from 20h 25m till 23h 26m						
29	15	50.6		eL			small
		53.5		M	4	14	
30	22	14	31	e			extremely small
		25.6		M	6	20	
31	14	27	16	i			very small
		29.6		L			small throughout
31	15	52ca		L			small throughout
	16	0.3		M	6	24	
Sept. 4	16	40	12	iP			preceded by irregular micros
		44	48	iS			$\Delta 26^{\circ}.5$
		45	16	i			
		47	33	L			
		50.7		M1	39	15	
		51.4		M2	45	16	
5	15	5	25	i			small and obscured by micros
		31	15	i			probably new disturbance
		36.7		M	5	16	

Seismological  
Bulletin No. 27 contd.

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Date	Universal Time			Phase	A	Period	Remarks
	h	m	s				
1934 Sept. 6	0	43	0	i			small and obscured by micros
		44	27	iS			
		49	5	L			
		54	2	M	8	15	
8	11	31	27	e			
		33	7	i			
		37	7	L			
		40	9	M	5	11	
11	8	27	48	i			
		28	14	i			followed by irregular shallow waves
14	record lost from 3h 45m till 23h 11m						
15	0	8	8	e			small and confused by micros
		11	30	L			
		13	9	M	8	13	
21	6	3	15	i			small
		5	32	i			
		6	16	i			
		7	45	i	10	10	
22	23	15	12	S			
		16	5	L			
		18	5	M	9	10	
23	8	5	17	eP			
		6	39	iPR1			
		10	15	eS			$\Delta 29.4$ ; longer period
		10	41	i			
		13	17	L			
		16	1	M	11	13	
24	10	37	47	e			very small
		42	5	e			
		46	16	L			
		46	9	M	9	25	
25	19	26	14	i			
		29	56	i			
		30	20	L?			
		32	6	M	11	16	

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Small, indefinite disturbances were recorded as follows:-

July 20d 13h; 21d 15h, 16h, 18h; 22d 18h; 25d 1h, 10h, 15h; 30d 1h;  
31d 1h.

Aug. 1d 12h; 2d 3h, 11h; 11d 4h; 12d 1h, 3h; 18d 15h; 22d 18h; 31d 5h.

Sept. 1d 7h; 2d 21h; 12d 7h; 15d 7h; 21d 12h; 24d 5h.

Correction: Bulletin No. 25. A disturbance recorded as at 1934 Mar.  
4d 11h 5m should be dated Mar. 5.



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Seismological Bulletin No. 28 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" = 40.2mm.  
 Universal

Date	Time	Phase	A	Period	Remarks
1934	h m s			secs.	
Oct.	6 33	c	vs		
	8 35	c	vs		
	13 15	L			
	16.5	M	9	13	
5	21 32 42	S	-		earlier phases obscured by micros.
	35 12	L			
	38.2	M	13	20	
10	15 48 0	cP			C.&G.S. "very deep"
	48 4	iP	-		very sharp
	49 37	c			
	49.7	m	13	9	
	52 45	S	+		$\Delta 27.7$ without allowance for depth.
	55 43	L			
	57 30	i			no M
11	17 43 50	c	vs		
	45 16	i	s		
	47 20?	L			
	49.9	M	12	10	
-18	7 54 58	P	+		
	55 10	i			
8	0 21	S	+		
	2 37	SR1	-		
	4 33	L			
	7.1	M	90	15	
-21	18 5 38	c	vs		
	10 40	i	s		
	11 55	i	s		
	19 17	i	s		
	20 33	L?			
	23.8	M	6	20	
-25	10 27 44	iP	+		
	31 11	ES	+		
	31 12	i	-		$\Delta 19.0$ This phase much stronger.
	32 0	i			
	32 50?	L			
	33.4	M	17	11	
26	14 52 33	i	+		small
	55 46	c	+		small, but followed by one larger wave.
	58 22	c			
	58 53	i			three larger waves
	59 7	m	26	10	largest in train.
	15 42?	L			
26	17 31 6	S	-		
	35 23	i	s		
	38 40	c			
	41.4?	L			
	51.0	m	25	25	

Seismological MELBOURNE OBSERVATORY  
 Bulletin No. 28 contd. SOUTH YARRA S.E. 1 VICTORIA.

Universal

Date	Time	Phase	A	Period	Remarks
1934	h m s		$\mu$	secs.	
Oct. 27	-10 14 49	i	s		
	19 22	e	s		
	26.5	L			
	33.0	M	16	18	

Nov. 4	1 59 49	eP			
	2 0 0	iP	-		
	1 25	i			
	4 35	e			
	4 53	s			$\Delta 30.3$
	5 30	m	25	14	
	6 30	i			
	6 53	L			
	11.2	M	116	15	

-4	3 21 27	P	+		
	22 28	i			
	26 13	s	+		$\Delta 27.8$
	28 14	e			
	29 30	L			
	32.0	M	232	20	

4	14 19 33	e	vs		
	21 32	L			
	22.1	M	10	18	

4	16 34.7	e	vs		
	38 43	i	s		
	43 50	i	s		

5	5 55 44	i	s		
	6 5 10	i			
	9.6	L			

10	8 4 54	e			
	6 11	L			
	9.4	M	13	12	

10	23 50 4	P			Gunning N.S.W.
	50 12	i			
	50 13	m	12	?	period very short
	50 23	i			

16	12 17 55	e	vs		
	21 28	L			
	24.5	M	12	20	

-16	13 49 52	e	vs		
	54 57	s			
	58 32	i			
	59 24?	L			
	14 6.8	M	57	10	

18	3 39 7	i			all amplitudes small
	40 10	i			
	44 13	i			
	45 7	i			

Seismological  
Bulletin No. 28 contd

MELBOURNE OBSERVATORY

SOUTH YARRA S.E.1 VICTORIA.

Date 1934	Universal Time			Phase	A	Period secs.	Remarks
	h	m	s				
Nov. 18	3	47	43	i			continued from previous sheet.
		49	28	i			
		53	22	i			
18	22	0	12	P	vs		Gunning N.S.W.
		0	41	i			
		0	50	i			
		0	55	i			
		1	6	iS			
		1	11	M	81		very short period.
<del>18</del>	22	47	12	e			
		48	11	i			
		52	13	S			
		54	28	i			
		56	43	L			
	23	0.9		M	55	20	
20	18	6.3		e	vs		
		7.4		L			
		8.5		M	6	12	
21	6	34	4?	eP			probably Gunning N.S.W.
		34	27	i			
		34	31	L			
22	3	38	48	i	s		
		45	50	e	s		
<del>24</del>	12	37	34	e	vs		
		38	31	i	s		
		38	47	i			
		42	10	S	+		
		42	17	m	70	16	
		43	22	L			
		44.5		M	100	12	
24	19	8	15	e	vs		
		8	33?	L			
25	0	30	30	i			
		31	30	L			
		33.1		M	8	12	
26	12	19	20	2	vs		
		26	35	i	+		
		30	25	i			
		40.1		m	8	16	
26	21	59	53	e			probably Gunning N.S.W.
		59	59	M	2		
<del>27</del>	6	22	10	1P	+		
		23	48	PR1			
		28	31	S	-		$\Delta 42.3$

PTC

Seismological Bulletin No. 28 contd. MELBOURNE OBSERVATORY SOUTH YARRA S.E.1 VICTORIA.

Universita

Date	Time	Phase	A	Period	Remarks
1934	h m s			secs.	
Nov. 27	6 28 56	i			continued from previous sheet
	29 10	i			
	31 14	SR1			
	36 7	L			
	40.7	M	61	19	
Nov 30	2 25 7	i	s		obscured by irregular micros.
	26 48	i	s		
	30 46	i	s		
	34 59	i			well marked
	41 44	i	s		
	42 43	i	s		
	58.7	L			
	3 12.9	M	44	20	
Dec 3	3 10 5	c	vs		
	17 19	c	vs		
	38ca	L			
	40	M	6	20	
4	17 44 33	c	vs		
	53 46	i			
	54 3	m	6	15	remainder of train insignificant
5	19 14 23	i	s		
	15 50	i			
	21.4?	L			
	24.2	M	7	10	
7	11 21 0	c	s		
	24 20	i			remainder insignificant.
8	20 56 41	i			
	21 0 7	i			
9	11 34 25	i	s		
	43.4?	L			
	45.5	M	6	20	
10	4 15 33	i	s		
	18 22	i			
	19 48	i			
	22 13	L			
	23.5	M	4	17	
12	8 49 11	i	s		obscured by micros.
	50 51	i			
	54 0	i			remainder indefinite
15	2 20 53	c			possibly some activity earlier
	21 7	i			
	33 10	i			
	35ca	L			initial period about 50s.
	48.4	M	63	22	
15	18 9 8	c	vs		
	12 3	L			

Seismological  
Bulletin No. 28 cont'd  
Universal

MELBOURNE OBSERVATORY  
SOUTH YARRA S.E.1 VICTORIA.

Date	Time	Phase	A	Period	Remarks
1934	h m s		$\mu$	secs.	
Dec. 15	19 21 58	i	s		
	25 10	i			
	28 20	i			
	29 50	i			
	32 5	L			
	35.1	M	7	15	
17	15 59 46?	c	vs		
	16 4 57	cS			
	7 39	i			
	7 47	L			
	14.4	M	62	14	
22	15 8ca	c			few long waves
	34ca	L			small amplitudes
25	6 45 0	i			
	54 0	L			
	54.8	M	5	18	
28	11 31 44	S	s		
	36 6	SR1			
	40 21	L			long train of sinusoidal waves.
	46.3	M	23	13	
31	19 5.8	c	vs		
	15 43	c			apparently from remote source
	16 20	i			
	40ca	L			
	46.0	M	33	21	

Small, indefinite disturbances were recorded as follows:-  
 Oct. 2d 0h; 8d 6h; 24d 6h; 28d 21h; 30d 21h.  
 Nov. 2d 13h; 4d 18h; 5d 13h; 8d 13h; 9d 3h; 21d 12h; 26d 8h.  
 Dec. 1d 11h; 14d 19h; 22d 15h; 24d 4h, 11h; 25d 5h; 30d 14h.

Small and very small amplitudes are indicated by s and vs in the column headed A.

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Date	Time	Phase	Period	Remarks
Dec. 15	19 21 28	1		
	22 10	1		
	23 20	1		
	24 20	1		
	25 2	2		
	25.1	M	12	
17	19 52 42	0	vs	
	19 52 42	1		
	19 52 42	2		
	19 52 42	3		
	19 52 42	4		
	19 52 42	5		
	19 52 42	6		
	19 52 42	7		
	19 52 42	8		
	19 52 42	9		
	19 52 42	10		
	19 52 42	11		
	19 52 42	12		
	19 52 42	13		
	19 52 42	14		
	19 52 42	15		
	19 52 42	16		
	19 52 42	17		
	19 52 42	18		
	19 52 42	19		
	19 52 42	20		
	19 52 42	21		
	19 52 42	22		
	19 52 42	23		
	19 52 42	24		
	19 52 42	25		
	19 52 42	26		
	19 52 42	27		
	19 52 42	28		
	19 52 42	29		
	19 52 42	30		
	19 52 42	31		
	19 52 42	32		
	19 52 42	33		
	19 52 42	34		
	19 52 42	35		
	19 52 42	36		
	19 52 42	37		
	19 52 42	38		
	19 52 42	39		
	19 52 42	40		
	19 52 42	41		
	19 52 42	42		
	19 52 42	43		
	19 52 42	44		
	19 52 42	45		
	19 52 42	46		
	19 52 42	47		
	19 52 42	48		
	19 52 42	49		
	19 52 42	50		
	19 52 42	51		
	19 52 42	52		
	19 52 42	53		
	19 52 42	54		
	19 52 42	55		
	19 52 42	56		
	19 52 42	57		
	19 52 42	58		
	19 52 42	59		
	19 52 42	60		
	19 52 42	61		
	19 52 42	62		
	19 52 42	63		
	19 52 42	64		
	19 52 42	65		
	19 52 42	66		
	19 52 42	67		
	19 52 42	68		
	19 52 42	69		
	19 52 42	70		
	19 52 42	71		
	19 52 42	72		
	19 52 42	73		
	19 52 42	74		
	19 52 42	75		
	19 52 42	76		
	19 52 42	77		
	19 52 42	78		
	19 52 42	79		
	19 52 42	80		
	19 52 42	81		
	19 52 42	82		
	19 52 42	83		
	19 52 42	84		
	19 52 42	85		
	19 52 42	86		
	19 52 42	87		
	19 52 42	88		
	19 52 42	89		
	19 52 42	90		
	19 52 42	91		
	19 52 42	92		
	19 52 42	93		
	19 52 42	94		
	19 52 42	95		
	19 52 42	96		
	19 52 42	97		
	19 52 42	98		
	19 52 42	99		
	19 52 42	100		

Small, indistinct disturbances were recorded as follows:-  
 Oct. 24 0h; 24 0h; 24 0h; 24 0h.  
 Nov. 24 12h; 24 12h; 24 12h; 24 12h; 24 12h; 24 12h.  
 Dec. 15 12h; 15 12h; 15 12h; 15 12h; 15 12h; 15 12h.

Small and very small amplitudes are indicated by a and vs in the column headed A.

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