

ADELAIDE OBSERVATORY.

Seismological Bulletin JANUARY 1932. Bulletin No.1

No.	Date Jan.	Phase	Time (Greenh) H. M. S.	Recorded Period of Waves N-S	A N mm.	A E mm.	△ in kms.	Remarks.
1	5	e i(L) Me Mn F	2 17 25 31 40 40 40 42 20 4 22	13	1.1	0.7		
2	5	i L Mn Me	4 55 20 58 59 5 03 30 04.6	16	1.5	0.2		
3	6	e F	5 15.0 5 32					Irregular waves-No definite maximum.
4	9	iP i iS L Mn ₁ Me ₁ Me ₂ Mn ₂ F	10 27 40 29 20 32 19 34 28 35 10 35 45 39 00 39 45 11 40	16 16	9.8 12.5 9.2	3.7 4.9	2990 (26°.9)	
5	13	e L Mn F	8 05 10 08 15 13 30 8 33	17	0.6			
6	17	e eL Mn F	5 42 10 45 09 48.2 5 55	10	0.3			Very small.
7	17	eS i iL Mn ₁ Me ₁ Mn ₂ Me ₂ F	7 56 30 59 04 59 32 8 03 00 04 25 05 50 06 30 9 20	17 13	4.5 4.5	1.6 2.0		P. very small-in micros.
8	20	eP iS i L Mn F	15 12 30 15 36 18 29 20 00 26 20 15 41	14	0.9		3400	P. very small.
Very short period waves superposed from about 15h22m probably another								
9	24	eP iS iS ₂ iL Me ₁ Mn ₁ Mn ₂ Me ₂ F	3 50 45 55 51 57 50 58 34 58 55 59 40 4 02 10 02 45 5 33	14 13	2.4 5.3 9.1	2.4 2.2	3400 (30°.6)	Small. (shock)
10	24	e F	10 12.7 10 29					Very small.
11	25	eP iS L i Mn Me F	1 59.5 2 04 14 06 54 07 52 10 40 12.2 3 30	14	2.7	0.6		Very small and indefinite.
12	25	e eL Mn Me F	3 01 00 06.5 09 20 09.9 8 40	18	1.2	0.5		Phases illegible on Milne-Shaw record.
Very small movement on 25th 9h58m to 10h07m.								

ADELAIDE OBSERVATORY.

Seismological Bulletin JANUARY 1932 Continued.

No	Date	Phase	Time (Green ^h) H. M. S.	Recorded Period of Waves N-S	A N mm.	A S mm	Δ in kms.	Remarks.
13	26	e i i L Mn Me F	5 04 03 07 23 03 21 08 40 11 00 11.5 5 40	13	1.0	13.3		
14	27	e i Me F	5 15 43 20 24 21.6 5 40			0.3		Mn. indefinite
15	29	eP i iPR ₂ iS i iSR ₂ i L Me ₁ Me ₂ Mn ₁ Me ₃ Mn ₂ Me ₄ Me ₅	13 47 32 47 45 43 41 52 45 52 56 54 46 55 20 56 16 53 45 14 00 10 01 15 02 30 03 05 04 15 06 40	13 15 15	4.3 17.3 36.5 23.8	3.1 7.7 3.9 7.6 11.5	3510 (31°.6)	
16	29	P iS L Mn ₁ Me ₁ Mn ₂ Me ₂ F	15 45.3 50 44 55.0 56.4 56.3 53.7 59.2 17 30	17 17	5.3 3.5	2.5 2.6		Milne-Shaw record very confused; small on Milne.
17	29	i e L	19 12 15 15 13 16 05					Short period movement superposed on large irregular micros
18	29	e L Me Mn F	22 00 09 03 53 03.6 10.3 22 33	18	0.4	0.2		
19	30	i F	1 33 47 1 55					Sharp rest of movement very small.
20	30	eP iPR ₂ iS i(SR ₂) L Me ₁ Mn ₁ Me ₂ Mn ₂ Me ₃ F	3 11 11 12 15 16 16 13 12 19 45 23 25 24 40 25 50 26 20 27 20 5 23	15 14	9.3 5.5	1.0 2.4 1.7	3330x (30°.4)	
21	30	eP e(PR ₂) iS i L Mn Me F	7 13 21 19 56 24 03 26 26 27 44 32 30 33 35 3 25	15	4.0	1.3	4100 (36°.3)	Very small.

ADELAIDE OBSERVATORY.

Seismological Bulletin January 1932 Continued.

No.	Date	Phase	Time (Green ^h) H. M. S.	Recorded Period of Waves N-S	A		△ in kms.	Remarks.
					N	E		
					mm.	mm.		
22	30	e	21 31 23					
		1(S)	36 11					
		Mn	40 50		0.6			
		Me	41 50			0.2		
		F	22 00					
23	31	e	1 25 10					
		S	30.0					S. in hour break.
		L	34 10					
		Mn	37 20	12	1.1			
		Me	39 05			0.4		
24	31	eS	4 46 40					
		i	43 57					
		L	50 10					
		Mn ₁	52 10	19	1.4			Single large wave.
		Me	52 30			0.5		
		Mn ₂	55 40	17	1.2			
		F	5 35					
25	31	eP	16 09 15					Small, masked by micros.
		iS	14 04					
		L	15 44					
		Mn	20 20	14	2.0			
		Me	22 35			0.9		
		F	16 45	in micros.				

CONSTANTS. Milne-Shaw(N-S Component) Period 10^s.1 on 11th. 11th-31st, 16^s.0. Damping ratio 25 : 1. Magnification 150.

Milne(E-W Component)
Period 17^s.1 Sensibility 0^m.43

ADELAIDE OBSERVATORY.
Seismological Bulletin FEBRUARY 1932.

No.	Date	Phase	Time (Greenh) H. M. S.	Recorded Period of Waves N-S	A N mm.	A E mm.	△ in kms.	Remarks.
26	3	e	6 23 55					
		e	36 00					
		e	38 48					
		L	7 22 01					
		Mn ₁	31 30	20	1.0			
		Me	37.6			0.3		
		Mn ₂	40 40	16	0.9			
		F	8 44					
27	3	e	12 00 48					Confused record.
		L	05.01					
		Me	06.3			0.2		
28	3	e	13 45 31					Very small.
		e(L)	52.0					
		F	14 10					
29	3	e	14 44 23					
		L	47 27					
		Me	51.0			Very small.		
		Mn	51 30	17	0.5			
		F	15 20					
30	4	e	7 22 48					
		eS	26 00					
		L	29 26					
		Mn	33 40	15	1.3			
		Me	35 40			0.3		
		F	8 30					
31	7	e	21 30 34					
		L	31 30					
		Mn	33 40	17	0.6			
		F	21 39					
32	13	eL	23 23 26					
		Mn	25.5	16	0.4			
		F	23 40					
33	14	e	1 44 49					Very small.
		e	46 35					
		L	48 28					
		Mn	50 45	15	0.6			
		F	2 10					
34	14	e	12 03.0					Approx.--record
		e	05.2					confused.
		Mn	08.7	19	1.6			
		Me	12.5			0.7		Approx.--No time
35	14	e	23 32					marks.
		Time approximate. No time marks. Few Small Waves.						
36	16	eP	13 56 53				4590	
		iS	14 03 05				(41° .3)	
		iSR ₂	06 31					
		L	07 05					
		Mn ₁	09 30	18	7.3			
		Mn ₂	12 00	17	6.6			
		Me	14.5			4.5		
		Mn ₃	15 05	14	5.5			
		Mn ₄	20 30	13	9.3			
		F	12 13 30					
37	23	eL	11 50 13					Micros Precede.
		Mn	54.5	11	0.7			
		Me	57.3			0.4		
		F	12 15					
38	23	eP	0 25 15				9900	P. very small
		ePR ₁	23 03				(89°)	
		iS	36 35					
		i(PS)	37 21					
		iSR ₁	42 03					
		i(SR ₂)	47 25					
		L	50 30					
		Mn ₁	56 10	25	2.9			
		Me	58.1			0.8		
		Mn ₂	03 50	18	1.8			
		F	2 20					

ADELAIDE OBSERVATORY.
Seismological Bulletin FEBRUARY 1932 Continued.

NO.	Date	Phase	Time (Green ^h) H. M. S.	Recorded Period of Waves N-S	A		△ in kms.	Remarks.
					N mm.	E mm.		
39	23	eP	20 17 54				3300 (30°.4)	P. very small.
		iS	22 56					
		L	25 30					
		Mn ₁	28 50	16	5.0			
		Me ₁	29.5			1.4		
		Mn ₂	30 30	17	3.4			
		Me ₂	31.6			1.9		
	F	21 18						
40	25	e	14 21 20				Very small.	
		L	23 50					
		Me	24 50					
		Mn	26 30	9	0.9			
		F	14 34					
41	25	e(S)	16 07 10				0.2	
		L	10 23					
		Me	11 35					
		Mn ₁	14 05	10	1.4			
		Mn ₂	19 50	8	1.9			
	F	16 32						
42	27	e	0 38 35				0.2	Phases very small.
		e	42.7					
		L	44 18					
		Mn	48.3	17	0.7			
		Me	54.1					
	F	1 18						

CONSTANTS. Milne-Shaw(N-S Component)
Period 16^S.0 Damping ratio 20 : 1. Magnification 150.

Milne. (E-W Component)
Period 16^S.9 Sensibility 0°.42

ADELAIDE OBSERVATORY
Seismological Bulletin MARCH 1932.

No.	Date	Phase	Time (Greenh)	Recorded A Period of N S. Waves N-S	A mm	A mm	Remarks.
	Mar.		h. m. S.			in kms.	
43	2	e Mo	13 25 29.5			0.4	No time marks from 13h. Milne-Shaw recd. undecipherable
44	4	e eL Mn F	21 25 35 28 45 32.2 21 45	13	0.6		
45	5	eP eS iSR ₁ iL Mn ₁ Mn ₂ Me ₁ Mn ₃ Me ₂ F	1 48 09 58 34 55 11 56 07 58.1 59.4 2 01.2 01.9 02.1 2 44	14 13 9	1.9 2.9 2.2	0.7 0.8	3760 (33°9) P. definite, but nothing before. May by 2nd. shock re- ported by Welling- ton.
No record from 5th 21 ^h 30 ^m to 6th 3 ^h 25 ^m							
46	8	e(P) iS i(L) Me Mn	3 20 00 24 42 26 29 28.6 29.4	14	1.0	0.3	3100 (27°7) Very short period waves superposed upon large irregu- lar micros.
47	8	S i iL Mn Me F	18 15 10 17 57 19 15 22.8 24.9 18 50 in micros.	13	4.9	1.2	Heavy micros pre- sent.
48	10	iS i L Mn Me F	5 35 56 38 49 43 24 48.7 52.8 6 40	18	4.5	2.9	Long train of waves of about same ampli- tude.
49	15	eL Mn ₁ Mn ₂ F	0 12 25 18.0 25.7 0 47	18 19	0.8 0.6		
50	15	i e i Me Mn	4 46 44 51 45 54 48 57.5 5 00 0	15	1.2	1.2	Milne-Shaw recd. very confused-micros very strong.
51	16	(S) L Mn	20 52 00 55 28 58 20	14	2.6		Phases indefinite; Mn tremors very strong.
52	19	iP iS L Mn Me F	11 08 47 16 10 24 03 31.4 31.9 in micros.	19	2.5	0.5	5790 (52°1) iP very sharp.
53	19	e i(S) L Me F	23 16.3 22 00 25.4 28.9 23 55			0.3	Milne-Shaw off level.
54	23	eL Mn F	12 49 00 55.0 13 57	18	0.5		Long train of about same amplitude.

ADELAIDE OBSERVATORY.

Seismological Bulletin March 1932 Continued.

No.	Date	Phase	Time (Greenh) H. M. S.	Recorded Period of Waves N-S	A N mm.	A E mm.	△ in kms.	Remarks.	
55	26	i	0 22 10					May be micro.	
		iS	27 20						
		i(PS)	28 20						
		i(SR ₁)	32 11						
		i	37 13						
		L	45 52						
		mn ₁	55.8	25	5.0				
		mn ₂	1 00.6	29	4.0				
		me	00.8			0.6			
F	2 30	in micros.							
56	26	iP	9 58 49				3500 (31 ² .5)		
		iS	10 03 58						
			04 08		11.0				
		i	04 47						
		i	05 16						
		iSR ₁	05 33						
		iL	06 32						
		mn ₁	09.6	14	20.0				
		me ₁	09.9			5.7			
		mn ₂	12.2	11	28.2				
		me ₂	14.0			5.5			
		me ₃	16.2			4.7			
		me ₄	18.5			3.76			
F	11 35								
57	28	iS	0 50 25						
		i(SR)	53 45						
		i	56 06						
		L	57 03						
		mn ₁	59.5	14	3.8				
		mn ₂	1 00.3	14	3.8				
		me	01.8			0.2			
F	2 05								
58	29	eP	9 20 18					} Both very small.	
		(S)	25 09						
		L	27 09						
		mn	28.5	10	0.8				
F	9 58								
59	30	e	15 09.0					Very small on Milne. Milne-Shaw record undecipherable for Earthquakes 59 & 60	
		eS	15 20						
		e	16 18						
		L	17.4						
		me ₁	21.0			0.2			
		me ₂	26.4			0.2			
60	30	e	18 57.0					Very small.	
		e	19 05.0						
		me	09.5			0.2			

CONSTANTS.

Milne-Shaw(N-S Component) Period 16^s.5. Damping Ratio 20 : 1
Magnification 150.
Milne(E-W Component) Period 1st-25th 16^s.8; 29th-31st 15^s.2
Sensibility 1st-25th, 0".42
29th-31st, 0".52

ADELAIDE OBSERVATORY.

Seismological Bulletin APRIL 1932.

No.	Date	Phase	Time (Green ⁿ) H. M. S.	Recorded Period of Waves N-S	Am mm.	Ae mm.	Δ in kms.	Remarks.
61	3	eP e is L Me	20 45 55 47 50 51 40 55 26?				4110 (37°.0)	From Milne. Milne-Shaw red. faulty.
62	4	i i F	19 34 48 37 24 20 05				0.4	From Milne. Milne-Shaw drum jammed 15 ^h 14 ^m . No definite max.
63	5	i i(S) L Mn F	5 20 42 22 00 22 52 23.4 5 52	10	1.5			Greatest E-W movement at 21 ^m . 4-0.6mm.
64	8	e Me	12 09.9 17.3				0.6	Not shown on Milne-Shaw.
65	13	e is e(L) me ₁ me ₂	0 00.1 04 15 05 30 07.5 14.5				0.6 0.9	Milne-Shaw reads. faulty for A.Q.'s 65-69.
66	13	e i L Me	4 10 45 14 00 16 48 19.4				0.6	
67	14	e i Me	6 51.1 57 00 7 00.3				0.4	
68	14	e e Me	17 12.8 16.0 19.0				0.3	
69	18	i e Me F	5 02 38 05 38 08.0 5 36				0.3	
70	20	i eL Mn Me	4 11 37 14 49 19.4 23.4	15	1.0		0.3	Phases obscured by micros.
71	22	is i i L Mn Me F	5 12 40 16 28 19 00 20 44 25.5 26.5 6 05? in micros.	15	1.7		0.3	
72	25	e L Mn Me F	7 20 44 25 52 30.6 35.2 8 02	11	1.5		0.6	
73	25	i e(L) F	17 58 20 18 03 15 18 10					Very small. Few long waves-No definite maximum.
74	29	e F	19 06.4 19 20					Few long waves.
75	29	e Mn Me F	23 04 44 05.5 05.5 23 20	13	0.3		0.2	

CONSTANTS. Milne-Shaw(N-S Component)
 Period 13^s.0. Damping ratio 20 : 1. Magnification 150.
 Milne(E-W Component)
 Period 15^s.4. Sensibility 0".54.

ADELAIDE OBSERVATORY.
 Seismological Bulletin MAY 1932.

No.	Date	Phase	Time (Green ^h)	Recorded Period of Waves N-S	A		△ in kms.	Remarks.
					N mm	E mm		
	May		H. M. S.					
76	1	e i(L) Mn Me ₁ Me ₂ F	4 26 18 29 14 32.5 33.5 35.7 5 10	14	2.5	0.5 0.5		
77	5	e L Mn Me F	8 34 23 37 14? 40.9 44.7 9 35	12	1.3	0.6		Very small.
78	10	i i i i(L) Mn F	14 33 22 37 05 39 54 40 21 41.4 14 53	12	0.5			All waves before this very short.
79	12	i F	6 20 45 6 50		0.7			Followed by irregular vibration of small amplitude.
80	14	e(L) F	4 59.5 5 24					Very small.
81	14	C Mn Me F	8 50 53 54.5 59.5 9 20	14	0.5	0.3		
82	14	iP i iP ₂ iS i(SR ₁) L Me ₁ Me ₂ Me ₃ Me ₄ Me ₅ F	13 18 11 18 33 19 44 24 00 26 10 27 20? 29.5 30.3 33.5 36.5 40.0 16 20		9.5		4200 (37°.7)	Milne-Shaw rec. fogged from 13 ^h 20 ^m to 13 ^h 43 ^m .
83	15	e iS i(L) Me Mn F	8 18.0 22 09 23 35 24.2 25.0 8 52	10	1.3	0.2		Very small, in micros.
84	18	e L i i L Mn Me F	19 56 15 19 00 11 02 35 04 24 06 10 09.4 10.7 20 10	16	1.4	0.3		Waves of 22 ^s period.
85	21	OP e i i(SAS) iPS e(SR ₁) L Mn Me F	10 26 38 29 35 32 45 36 09 41 39 49 27 11 06.5? 14.5 18.5 12 45	23	1.0	0.4	14500? (130°)	Very small
86	22	e i L Mn ₁ Me ₁ Mn ₂ Me ₂ F	11 43 20? 47 25 48 00 54.0 56.17 56.3 58.9 12 55	12 12	3.5 2.8	0.6 2.9		Very small, in micros.

ADELAIDE OBSERVATORY.
Seismological Bulletin MAY 1932 Continued.


No.	Date May.	Phase	Time (Green ⁿ) h. M. S.	Recorded Period of Waves N-S	A		△ in kms.	Remarks.
					N mm.	E mm.		
87	26	iP	16 16 00				3210 (28°.9)	Probably P. of 1st shock noted by Wellington.
		i	18 25					
		i	19 52					
		iS	20 51					
		i	21 03			22.6		
		iSR ₁	22 02					
		L	22 45					
		i	24 7 23			21.0 6.9		
		i	25 20			18.2 6.0		
		Mn ₁	26.8	9		9.7		
		Me ₁	28.2			3.3		
		Mn ₂	28.5	13		10.1		
		Me ₂	31.8			4.8		
		Mn ₃	32.1	11		9.2		
Me ₃	34.0			4.8				
		F	18 35					
88	26	eP	22 28 11				3300 (29° .6)	Very sharp. Single large wave rest small; deep focus type.
		iS	33 06					
		Mn	36.7	13		1.3		
		Me	36.7			0.4		
		F	23 20					
89	27	eP	1 35.97				3200? (29°)	Very small, in micros. Rest small and indefinite.
		iS	40 44			2.2		
		F	2 05					
90	28	e	2 39 40					
		e	45 36					
		L	55.0					
		Mn	3 00.5	17		0.6		
		F	3 20					

CONSTANTS.

Milne-Shaw(N-S Component)
 Period 13^s.0. Damping ratio 20 : 1.
 Magnification 150.

Milne(E-W Component)
 Period 15^s.4. Sensibility 0".55.

ADELAIDE OBSERVATORY.
Seismological Bulletin, JUNE 1932.


No.	Date	Phase	Time (Green ⁿ) h. M. S.	Recorded Period of Waves N-S	A N mm.	A E mm.	 in kms.	Remarks.
91	3	e(P ₁) e i iP ₃ i m ₁ m ₁ m ₂ m ₂ m ₃ m ₄ m ₃ m ₅ m ₆ F	10 57.5 11 00 10 03 05 07 36 15 19 37.2 39.7 41.0 46.4 50.6 52.4 53.8 57.0 12 00.0 14 00	23 24	2.0 5.0 5.5	2.7 4.5 6.3 6.4 4.8 5.3		Faint.
92	5	e e L me	13 13.0 17.0 18.1 21.6			0.3		From Milne record. Milne-Shaw record lost.
93	16	e i m	1 27 30 35 24 46.6	15	0.7			
94	18	eP i i i i L m ₁ m ₂ m _e m ₃ xeW ₃ F	10 33 07 38 24 45 22 49 09 50 11 11 03 45 09.5? 12.3 16.3 18.6 30.0 13 49.0 13 55	25 17 14	2.5 1.6 2.0 2.9	0.6		Very small. Very long period.
95	20	e L m	3 59 44 4 09 38 13.2	13	0.7			
96	20	e F	5 29.0 5 44					Very small. No def- inite maximum.
97	20	e i(S) i(SR ₁) i L m ₁ m ₂ F	19 20 19 22 54 25 49 28 00 28 25 29.3 30.8 19 55	13 9	1.7 1.4			Movement very small on Milne, 0.2 mm. at 26 ^m .8.
98	22	e e(SR ₁) i L m me F	13 31 15 36 30 50 35 56.7? 14 12.4 16.3 15 30 [?] in micros.	18	2.0	0.3		
99	23	e i me m F	2 20 15 26 25 30.5 30.7 2 50	13	0.9	0.2		
100	28	e L m F	10 48 45 50 12 51.3 11 02	14	0.6			

CONSTANTS. Milne-Shaw (N-S) Period 13^s.8. Damping ration 20 : 1.
Magnification 150.
Milne(S-W) Period 15^s. Sensibility 0".58

ADELAIDE OBSERVATORY.

Seismological Bulletin

DECEMBER 1932 Continued.

No.	Date	Phase	Time (Green ⁿ) H. M. S.	Recorded Period of Waves N-S	A		 in kms.	Remarks.
					N mm.	E mm.		
163	24	i(P)	6 37 20				3440 (31°.0)	In micros.
		iS	42 26					
		iSS	44 00					
		L	45 22.7					
		Mn1	49.1	11	5.7			
		Me1	49.4		5.5			
		Me2	51.5		3.5			
		Mn2	52.4	10	10.9			
		Mn3	53.7	8	5.5			
		F	8 20					
164	25	iP	2 17 01				9250 (83°.3)	Mn's approxi- mate in time and amplitude, being on ex- treme edge of paper.
		i	17 15					
		i	18 28					
		iPP	20 24					
		iS	27 27					
		i	27 44					
		i	29 04.3					
		iSS	32 59					
		i	37 40					
		L	40 57					
		Mn1	50.5	23	10			
		Me1	54.9		4.0			
		Mn2	55.3	20	11			
		Me2	56.0		4.6			
		Mn2	56.4	21	11			
		Mn3	58.6	18	11			
Mn4	59.5	17	11					
Me3	3 04.0		8.7					
F	5 20							
165	26	e(S)	16 44 08					
		i	45 41					
		Me	49.3		0.6			
		Mn	50.4	8	0.9			
F	17 25							
166	29	e	21 05 40					Very small.
		Mn	08.5	15	0.3			
		F	21 32					
167	31	e?	7 00 05					Micros strong.
		L	10.0					
		Mn	13.6	18	0.7			

CONSTANTS.

Milne-Shaw(N-S- Component)

 Period. 12^s.5; Damping ratio 20: 1; Magnification 150.

Milne(E-W- Component)

 Period 18^s.8. Sensibility 0".37.

ADELAIDE OBSERVATORY.
Seismological Bulletin DECEMBER 1932.

No.	Date Dec.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A		△ in kms.	Remarks.
					N mm.	E mm.		
155	3	e e L Mn Me F	6 34 12 37 26 42 23 48.7 50.8 7 10	13	0.6	0.3		All phases masked by micros.
156	4	iP i iPP i iS m i i(SS) L Me1 Me2 Mn1 Mn2 F	8 18 58 18 18 20 33 20 51 25 04 25 11 25 24 28 03 30 13 31.6 32.4 34.7 37.9 10 30	25	4.5 7.9 15.0 7.4 6.0	2.7 2.9	4460 (40°.1)	
157	4	iP i i iS i i i(SS) L Mn Me F	10 40 39 40 54 42 26 46 45 46 51 47 02 48 49 51 13 53.0 58.6 11 40	20	1.3	0.3	4480 (40°.3)	
158	5	e e Mn Me F	15 19 46 26 52 28.4 29.1 15 42	11	0.2			Very small. Very small.
159	7	eL Mn1 Me1 Mn2 Me2 F	17 18.7 26.6 34.3 35.4 37.9 18 05	20 17	0.6 0.9	0.6 0.7		No record 6 ^d 2 ^h 47 ^m to 7 ^d 2 ^h 57 ^m . Very irregular movements before this.
160	10	eP e iS i i(L) Me Mn1 F	4 04 38 06 27 10 10 13 10 14 24 17.6 4 18.4 4 50	14	1.3	0.3	3890 (35°.0)	Small.
161	10	e Mn Me F	10 28 26 34.4 35.0 11 15	17	0.9	0.4		
162	21	i i e i L Mn1 Me1 Mn2 Me2 Me3 F	6 28 17 31 20 38 21 47 08 57.2 7 03.9 12.5 14.5 19.0 24.7 8 20	17 22	1.7 1.7	1.1 2.2 0.9		

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Seismological Bulletin NOVEMBER 1932.

No.	Date Nov.	Phase	Time (Green ⁿ) H. M. S.	Recorded Period of Waves N-S	A N mm.	A E mm.	Δ in kms.	Remarks.
144	2	eP iS iPS eSS L Mn Me F	11 17.77 27 35 28 46 33 32 42 10 49.4 50.6 12 35	20	0.7	0.2	10200? (92°)	Very small, in micros.
145	13	iP iS i(SS) i i L Me Ma F	4 58 26 5 07 55 09 26 10 10 14 45 18 40 24.1 29.1 6 15	20	0.7	0.3	8120 (73°.1)	Very sharp. Deep Focus E.Q. smaller than preced- ing i's. Rather indefinite.
146	13	e e Mn Me F	15 55 18 16 00 26 08.4 09.5 16 45	20	0.8	0.3		
147	18	e eL Mn F	9 41 30 44 40 50.5 10 05	12	0.4			
148	18	eP e(PP) iS i(SS) F	13 53 42 55 15 59 45 14 02 40 14 25					xVery small. Very small movement after 14 ^h 03 ^m .2
149	22	iP iS i F	14 57 08 15 01 49 02 37 15 35				3050 (27°.5)	Very sharp iP. No 2 waves.
150	26	i e F	4 35 47 45 32 5 30					Short period. Irregular waves, long period.
151	29	eP e L F	1 08 52 11.0 13 30 1 29					All phases very small.
152	29	e i L Mn ₁ Me Mn ₂ F	1 53 34 59 31 2 02 30 04.5 08.0 09.8 2 27	20 12	0.8 1.1	0.5		
153	29	i ie	11 35 51 42 18					Milne-Shaw record faulty after 11 ^h 37 ^m
154	30	e i i(L) Mn Me F	3 42 07 48 09 51 40 56.7 59.3 4 40	11	0.7	0.3		4 40 in micros.

CONSTANTS. Milne-Shaw(N-S Component)
 Period 13^s.4. Damping Ratio 20 : 1. Magnification 150.
 Milne(E-W Component)
 Period 18^s.6 sensibility 0".38.

ADELAIDE OBSERVATORY.
 Seismological Bulletin OCTOBER 1932.


No.	Date Oct.	Phase	Time (Green ⁿ) H. M. S.	Recorded Period of Waves N-S	A N mm.	A E mm.	Δ in kms.	Remarks.
Very small movements on 1st at 8 ^h 24 ^m to 8 ^h 49 ^m and 9 ^h 58 ^m to 10 ^h 25 ^m								
137	16	e	12 35 10					
		e	40 46.7					
		L	51 20					
		Mn ₁	13 02.5	24	0.6			
		Me	03.2			very small.		
		Mn ₂	05.7	20	0.7			
		F	13 30					
138	17	i	13 32 45					Very small.
		is	38 55					
		i	39 10					
		L	40 46					
		Mn	44.6	17	2.1			
		Me	45.0			0.4		
		F	14 30					
139	19	e	12 04 45					
		L	06 15					
		Mn	08.8	13	0.4			
		F	12 14					
140	20	e	17 51.2					Very small.
		Mn	57.6	12	0.3			Whole movement small & mostly irregular.
		F	18 20					
141	23	e	0 22 48.7					Very small.
		L	29 00					
		Mn	32.9	13	0.5			
		Me	34.0			0.15		
		F	0 53					
142	23	i	21 46 10					
		e	56 17					
		Mn	23 04.7	16	0.9			
143	26	e	3 09 00					
		Mn	09 35	7	0.6			Very short per- iod vibration.

CONSTANTS.

Milne-Shaw(N-S Component) Period 13^s.3 Damping Ratio
20 : 1. Magnification 15 $\frac{1}{2}$.

Milne(E-W Component)
Period 19^s.5 Sensibility 0".40.

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Seismological Bulletin SEPTEMBER 1932 Continued.

No.	Date Sept.	Phase	Time (Greenh) H. M. S.	Recorded Period of Waves N-S	A N mm.	A E mm.	 in kms.	Remarks.
132	23	eP	14 33 48	20 micros	1.9		8300 (74°.7)	Small.
		iS	43 26					
		i	45 20					
		L	50 31					
		L	55.6?					
		Mn	15 00.2?					
F	15 40? in							
133	24 25	iS	22 15 05					Timesmark approx. No time marks.
		L	24 20					
		Mn	27.0					
134	26	i	19 43 35	17	0.8	0.4		
		e	50 05					
		e	55 30					
		i	57 26					
		e	20 02 25					
		L	21.4?					
		Me	43.6					
		Mn	49.0					
F	21 40							
135	28	e	20 26 28	14	0.5			Very small.
		e(L)	28 22					
		Mn	30.6					
		F	20 50					
136	30	e	11 10 29?	16	0.5	0.2		Very small. A few regular waves
		i	11 20					
		eL	12 38					
		Me	13.4					
		Mn	13.8					
		F	11 18					

CONSTANTS.

Milne-Shaw(N-S Component)
Period 13s.3. Damping Ratio 20 : 1. Magnification 150.
Milne(E-W Component)
Period 17s.8. Sensibility 0".45.

ADELAIDE OBSERVATORY.
Seismological Bulletin SEPTEMBER 1932.

No.	Date Sept.	Phase	Time (Green ⁿ) H. M. S.	Recorded Period of Waves N-S	A		△ in kms.	Remarks.
					N mm.	E mm.		
126	1	i i Mn	2 10 30 12 30 13.4	10	1.6			Heavy micros present.
127	2	e i F	18 25 30 25 39 18 27					Small. Micros present.
128	9	1(S) L Mn Me F	7 01 25 04 15? 08.9 10.9 7 27	13	0.7	0.3		Phases obscured by micros.
129	9	eP i i e i 1(S) i L Mn ₁ Me ₁ Mn ₂ Me ₂ Mn ₃ F	13 45 40 46 01 46 51 50 26 51 06 51 55 52 47 54 33? 56.9 57.0 58.3 59.2 14 00.1 15 00	13 15 15	3.0 3.0 3.7	1.8 1.4		
130	15	eP iS SS L Me Mn F	11 21 27? 28 04 31 10 33 45? 41.5 43.? 12 15	17	0.9		5000? (45°.0)	Small.-in micros..
131	15	eP i iPP iS i i i iL Mn ₁ Me ₁ Mn ₂ Me ₂ Mn ₃ Me ₃ Me ₄ Mn ₄ Me ₅ F	14 01 17 01 36 02 24 06 31 06 56 08 41 09 06 10 12 11.8 12.4 13.1 13.3 14.0 14.5 15.1 15.4 15.0 16 25	15 12 14 15	13.4 19.3 20.0 9.9	5.0 5.3 6.0 9.6 7.3	3590 (32°.3)	Probably 2nd.S. corresponding to 2nd.impulse above.

ADELAIDE OBSERVATORY.

Seismological Bulletin July 1932 Continued.

No.	Date July.	Phase	Time (Green ⁿ) H. M. S.	Recorded Period of Waves N-S	A		△ in kms.	Remarks.
					N mm.	E mm.		
112	21	eL Mn F	16 54 15 58.5 17 24	20	0.6			
113	23	eL Mn	0 47 35 51.1	20	0.5			Micros strong- Phases difficult to identify.
114	25	i e e(L ₁) i(L ₂) Mn ₁ Mn ₁ Mn ₂ Mn ₂ Mn ₃ F	9 50 27 55 00 10 05 00 10 35 17.0 19.5 25.0 26.5 30.1 11 10	20 15	1.0 1.2	0.4 0.8 1.5		
115	27	eP iS i(L) Mn F	21 36 10 31 04 34 04 36.0 36.7 22 25	10	2.2	1.1	3250 (29°.3)	Short period waves superposed throughout.
116	30	e e iL Mn F	12 36 56 30 17 35 28 38.4 13 00	18	0.7			Very small.

CONSTANTS.

Milne-Shaw (N-S Component)

 Period 13^s. Damping Ratio 20 : 1. Magnification 150.

Milne (E-W Component)

 Period 14^s.7 to 6th. 17^s.2 from 6th.

Sensibility 0".65 to 6th. 0".40 from 6th to 31st.

ADELAIDE OBSERVATORY.

Seismological Bulletin JULY 1932.

No.	Date	Phase	Time (Green ⁿ) H. M. S.	Recorded Period of Waves N-S	A		△ in kms.	Remarks.
					N mm.	E mm.		
101	2 July	eP iS L Mn F	2 17.17 23 08 27 27? 32.8 2 55	16	0.6		4400? (40°)	Very small.
102	5	e L Mn F	11 09 42 13 10 20.2 11 40	20	0.7			
103	7	e e e L Mn Me F	16 51 50? 52 50 17 00 25 09.9 17.4 24.5 18 40 18 40	20	0.5	0.2		Very small.
104	9	eP iS i(L) Mn Me F	13 02.57 07 41 10 24 11.7 12.2 13 50	13	3.1	0.5	3500? (32°)	P.very small, in micros.
105	12	e L Me Mn1 Mn2 F	20 01 12 16 10 28.0 28.4 33.2 21 35	19 19	0.7 0.8	0.2		
106	14	eP iS eL i Me Mn F	9 00 10 04 44 06 31 08 28 10.9 14.0 9 35	16	0.6	0.2	2960 (26°.6)	Very small, in micros
107	15	e L Mn	15 45 55 50.9 53.7	12				
108	15	e i Mn Me	20 59 00? 21 03 39 04.7 04.7	11	1.2	0.4		Small-may be micros.
109	20	e(s) i(L) Mn F	5 01 06 03 44 05.7 5 20	10	1.0			Very small on Milne.
110	20	e i i i F	20 14 34 19 37 19 44 21 39 22 49 20 55		1.7 3.0			Following movements -small amplitude.
111	21	eP i iS i i L Me1 Me2 Mn F	12 46 13 47 26 51 17 52 43 53 53 54 09 57.5 58.5 13 00.0 13 50	10	8.4	1.3 1.4	3410 (20°.7)	

SEISMOLOGICAL RECORDS AT ADELAIDE OBSERVATORY FOR 1932.

During 1932, 167 earthquakes were recorded being close to the average number, 160, for the seven years 1926-1932, during which the Milne-Shaw seismograph has been installed.

Both the Milne-Shaw (N-S component), and Milne (E-W component)

seismographs were running practically continuously throughout the

year.

Table used: January Bulletin - "Tables of Times of Transmissions of the P & S waves of Earthquakes", by Harold Jeffreys, 1932.

From February Bulletin. "Revised Travel-Time Tables" by H. Jeffreys and K.E. Bullen from I.S.S. of 1931

Also during the later months of the year the notation P, S, etc. for P and S, etc. have been used following the I.S.S.