ADELAIDE OBSERVATORY.
SEISMOGRAPH BULLETIN JANUARY 1930.

Bulletin No. 1

No	Date Jan.	Char.	Phase	Time (Greenwich) H. M. S.	Recorded period of Waves N-S	A_N	A_E	△ in kms.	Remarks
1	5	Iu	eP	1 32 45?					
			iS	42 16		1.0			i's long -est move -ment
			Me	58 .0			0.2		
			Mn	2 05 15	15.0	0.3			
			F	3 00?					
2	5	Iu	eP	19 05 46?					
			iS	14 20					
			L	25.9					
			Mn	34.7	25.0	0.4			
			Me	42.5	[illegible]	[illegible]	[illegible]0.2		
			F	20 05					
3	7	I	e	0 03 57					
			e	08 40					
			L	18 40					
			Mn	21 20	20.5	1.6			
			Me	23 25			1.3		
			F	1 00					
4	14	Ir	eP	22 10 07?				4900	Phases in micros
			iS	16 40					
			iSR_1	19 50					
			i	21 00					
			i(L)	22 10					
			Mn_1	23 35	15.0	1.2			
			Mn_2	25 10	19.5	1.7			
			Mn_3	26 20	15.2	2.1			
			F	23 40					
5	16	I	i	12 06 40					
			L	23.8					
			Mn	27.5	19.0	0.3			
6	17	I	i	23 23 55					
			Mn	24 35	7.5	0.7			
			Me	25 25			0.3		
			F	23 33					
7	18	IIr	iP	7 10 38				3460	
			i	11 10					
			iS	15 48					
			i	15 58		3.8			
			i	16 21					
			i	16 49					
			iSR_2	17 59					
			iL	18 29					
			Mn_1	21 55	12.5	4.5			
			Mn_2)	22 45	12.5	5.7			
			Me_1)				5.7		
			Mn_3	24 58	13.0	4.2			
			Me_2	25 40			2.1		
			F	8 20					
8	20	Ir	eP	17 18 18				3550	
			iPR_1	19 08					
			iS	23 34					
			eSR_1	25 11					
			iL	26 39					
			Mn_1	30 55	19.5	2.4			
			Mn_2	31 40	17.0	2.7			
			Me	31.7			1.3		
			F	18 15					

ADELAIDE OBSERVATORY

JANUARY 1930 Bulletin No. 1 Contd.

No	Date Jan.	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A_N	A_E	Δ in kms.	Remarks
9	21	Ir	eP	18 32 32				3400	
			iS	37 39					
			eL	40 16					
			Me	45.0			0.3		
			Mn	46 00	14.0	0.5			
			F	19 25					
10	24	I	e	1 40 49					Very small No definite Maximum
			i(S)	42 47					
			e(L)	44 05					
11	25	I	S	1 52 55					P.in air tremors. Milne-Shaw off level.
			SR	56 25					
			Me	2 07.4			0.7		
			F	2 30					
12	28	Ir	e(P)	6 26 15				4000?	
			i	27 10					Only two waves.
			i(S)	32 00					
			L	35 20					
			Mn_1	36 25	10.0	0.9			
			Mn_2	39 25	11.0	1.1			
			Me				0.7		
			F	7 15					
13	29	I	e(S)	0 36 20					
			L?	45 28					
			Mn	49 50	13.0	0.4			
			F	1 10					

Constants.

Milne Shaw (N-S) Period 15.5 seconds. Damping ratio 20:1
Magnification (nominal) 150

Milne Period 19.2 seconds . Sensitivity 0".35

ADELAIDE OBSERVATORY.

Seismological Bulletin FEBRUARY 1930. Bulletin No.2

No.	Date Feb.	Char.	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks.
14	1	I	e(P)	17 38 49					Rapid vibrations, micros also present
			iS	40 40					
			iL	40 55					
			Mn	41 22	8.0	0.6			
			F	17 55					
15	2	Iu	iS	15 20 19					No time marks on Milne-Shaw during E.q's 15 & 16.
			e	26 15					
			L	37 40?					
			Me	49 00			1.6		
			F	16 50?					
16	3	I	i	2 37 00					
			i	47 11					
			Me	47 20			1.0		
			F	3 30					
17	7	I	e	6 33.1					
			e	38 12					
			L	42 12					
			Mn	43 50	15.0	1.1			
			Me_1	48.8			0.4		
			Me_2	50.9			0.4		
			F	7 35					
18	7	I	eS	12 15 19					Phases in strong micros
			eL	18 25?					
			Me	20 40			0.7		
			Mn	21 15	14.0	0.8			
			F	13 00?					
19	12	IIr	eP	6 27 37?				3300?	Phases in micros, lines of record crowded
			iS	32 41					
			iL	35 10					
			Mn_1	35 50	15.0	6.2			
			Mn_2	37 05	16.0	4.7			
			Me1	37 25			2.0 4.1		
			Mn_3	39 30	14.5	5.0			
			Me_2	40 05			5.2		
			F	8 15					
20	14	Ir	S	20 55 20?					Milne-Shaw lines run together at phases. Milne Light burnt out.
			L	21 00 40?					
			Mn	05 05	9.5	3.2			
			F	22 15					
21	18	I	F	3 55					Beginning of No.21
22	18	I	L	6 20.9					lost- Instrument off level.
			Mn	24.4	18.0	1.5			
			F	6 55					
23	28	I	e	2 23.8					
			L	33.0					
			Me	36.0			0.4		
24	28	I	e	18 10 55					Milne-Shaw record undecipherable owing to level changes.
			eS	14 05					
			e(L)	18 32					
			Me	25 15			1.2		
			F	19 10					

Constants. Milne-Shaw Period -rose from 16.2 secs.to 22.0 secs. during the month. Damping ratio 20:1. Magnification(nom)150
Milne- Period 19. 2 secs. Sensitivity 0".32.
Note- Sensitivity of Milne-Shaw to level changes throughout month due to great increase in period. Period adjusted March 3rd.

ADELAIDE OBSERVATORY.

Seismological Bulletin MARCH 1930

Bulletin No.3

No	Date Mar.	Char.	Phase	Time (Green^h) h. m. s.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks.
25	1	I	e	1 28 55					Milne-Shaw off level
			e(L)	38.5					
			Me	44.1			0.5		
26	6	Ir	eP	15 42 06				3860	P small
			iS	47 40					
			iSR_2	50 19					
			L	50 52?					
			Mn_1	52 25	17.5	2.3			
			Mn_2	54 50	14.4	3.1			
			Mn_3	57 00	14.0	3.3			
			F	17 05					
27	10	Ir	eP	20 25 18?					Phases very small S probably in hour break
			L	31 27?					
			Mn	32 30	11.0	1.0			
			Me	34.3			0.4		
28	12	Ir	eP	5 36 14?				3100?	P. very small
			eS	41 02					
			L	42.7					
			Me	43.1			0.5		
			Mn	45 40	9.0	0.7			
			F	6 10					Very small movements Mar.12th $16^h 7^m$ to 17^h & $19^h 46^m$ - $20^h 19^m$. Mar.14th small regular sinusoidal movement of abt. 25^s period almost continuous from $14^h 50^m$-$22^h 10^m$.
29	13	I	i(S)	7 09 50					
			L	14 30					
			Mn_1	17 08	14.5	1.1			
			Mn_2	17 49	12.0	1.1			
			Me_1	19.2			0.3		
			Me_2	24.3			0.5		
			F	8 15					
30	18	I	e(L)	1 11 06					
			Mn	12 10					
			Me	12.9					
			F	1 23					
31	20	I	e?	12 46 00					Milne-Shaw lines crossed just here, phases unrecognisable.
			e	52 50					
			Me_1	13 05.9			0.4		
			Me_2	08.0			0.5		
			Me_3	09.8			0.5		
32	25	I	e	11 01 34					
			L	02 25?					
			Me	02.4			0.4		
			Mn	04 15	10.0	0.5			
			F	11 17					
33	25	I	e	11 48.0					Very small
			Mn_1	49.4		0.3			
			Me	50.5			0.3		
			Mn_2	51.2		0.4			
			F	12 06					

No	Date Mar.	Char.	Phase	Time (Greenh.) H. M. S.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks.
34	26	IIIr	iP	7 18 14				3330	Probably several shocks.
			i	18 22					
			i	18 34					
			i	23 00					
			iS	23 16					
			i	23 24					
			i	31		12.6			
			i	23 36					
			i	38		14.6			
			iSR_1	24 40					
			i(L)	25 44					
			i	26 00					
			Mn_1	28 08	23.0	29.0			)Large ir..)regular)Waves.
			Me_1	28 30			5.2		
			Mn_2	30 05	12.0	56.6			
			Me_3	30 10			14.8		
			Mn_3	33 25	9.0	26.0			
			Me_2	33 45			4.4		
			F	9 45					
35	26	Ir	iP	11 38 11				3310	
			iS	43 12					
			iL	45 29					
			Mn_1)	50.1	18	5.0			
			Me_1)				1.2		
			Me_2	51.8			1.1		
			F	13 20					
36	26	Ir	eP	20 21 50?				3300?	Phases very small amplitude, L may be in hour break.
			iS	26 51					
			L	30 28?					
			Me	33 45			0.5		
			Mn	33 55		1.3			
			F	21 20					
37	30	I	e(S)	0 41 57					
			e(SR)	45 16					
			L	49 05?					
			Me	52 35			0.2		
			Mn	54 30	18.5	1.1			
			F	1 23					
38	30	Iu	iP	8 39 10				9900?	
			i	49 38					
			iS	49 59					
			eSR_1	56 06					
			L	9 08 10?					
			Mn_1	15 20	24.5	1.3			
			Mn_2	18 05	17.0	1.1			
			Me	19.0			0.3		
			F in No.39						
39	30	Ir	eP	9 22 58?				3600?	P. masked by Waves of No 38.
			iS	27 45					
			i	28 04					
			i	29 17					
			i	30 25					
			L	31 14					
			Mn_1	33 50	16.5	2.2			
			Me_1	34.0			0.8		
			Me_2	35.1			0.8		
			Mn_2	35 25	20.0	2.8			
			Mn_3	36 20	14.0	2.8			
			F	10 25					

ADELAIDE OBSERVATORY.

MARCH 1930. Bulletin No. 3 Contd.

No.	Date Mar.	Char.	Phase	Time (Green^{n}) H. M. S.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks
40	30	IIr	iP	15 25 29				3280	
			iS	30 28					
			i	31 31					
			iSR_2	32 17					
			iL	33 11					
			Mn_1	) 37 00	10.0	5.3			
			Me_1	)			1.7		
			Mn_2	37 32	11.0	7.7			
			Me_2	38.4			2.2		
			Mn_3	38 30	10.5	6.0			
			Mn_4	39 02	12.2	6.1			
			F	17 03					
41	30	I	e?	17 03 55					
			e(L)	08 00					
			Mn	09.5		0.4			
			F	17 20					
42	30	I	e?	23 32.0					Movement of Milne very small for No's 41 & 42
			e(S)	35 40					
			eL	38 48					
			Mn	38.5		0.3			
			F	23 48					

Constants. Milne Shaw(N-S) Period Mar.1st,22.0 secs., from March 3rd 16.0 seconds. Damping ratio 20:1 Magnification 150.

Milne (E-W) Period 19.1 seconds
Sensitivity 0".35.

ADELAIDE OBSERVATORY,

SOUTH AUSTRALIA.

SEISMOLOGICAL BULLETIN.

Prepared under the direction of
G. F. DODWELL, B.A., F.R.A.S.,
GOVERNMENT ASTRONOMER.

ϕ. 34°. 55′. 38·0″. S. λ. 9^h. 14^m. $19{\cdot}81^s$. E. Height above Mean Sea Level—134 feet.

SITUATION.—5 miles West of Mount Lofty Ranges, 5 miles East of Sea Coast.

FOUNDATION.—Marly Limestone and Clay of Adelaide Plains, to depth of 40 feet. Miocene Sandstone probably below. Depth of bedrocks not known, probably 1,000 to 2,000 feet.

INSTRUMENTS.—Milne's Horizontal Pendulum, No. 50, 1904 Pattern. E.—W. Component Recorded.
Milne-Shaw Seismograph, No. 35. N.—S. Component.

NOTATION.

I. = perceptible. II. = striking. III. = very striking.

d (domesticus) = local.
v (vicinus) = near (less than 1000km.).
r (remotus) = distant (1000km.—5000km.).
u (ultimus) = very distant (over 5000km.).

PHASES.

P (primae)	= 1st preliminary tremors (commencement).
S (secundae)	= 2nd preliminary tremors (commencement).
L (longae)	= 2nd principal phase, Rayleigh waves.
M (maximae)	= maximum amplitude of L waves.
C (coda)	= a prominent wave among the "after tremors."
F (finis)	= last perceptible movement (non-microseismic).
PR_1, PR_2	= 1st and 2nd reflected waves of P.
SR_1, SR_2	= 1st and 2nd reflected waves of S.
i (impetus)	= abrupt commencement, clearly defined.
e (emersio)	= gradual commencement, not clearly defined.
E, N	= E-W or N-S component of earth oscillation.
Δ	= approximate distance from epicentre in km.
E.Q.	= earthquake.

ADELAIDE OBSERVATORY.

Seismological Bulletin APRIL 1930.

Bulletin No.4

No	Date Apl	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks.
43	4	Ir	e(P)	2 17 55					Milne-Shaw trace run off sheet.
			e(S)	23 55					
			L	26 50?					
			Me	28.8			0.3		
44	4	Ir	iP	9 31 41				8200	
			iS	36 36					
			iL	38 38					
			Mn_1	43 15	16.0	2.0			
			Me_1	43 15			0.8		
			Mn_2	43 50	14.0	2.3			
			Me_2	45 05			1.2		
			F	10 25					
45	4	I	e	20 33 40					Very small movement
			Mn	39 30	10.0	0.3			
			F	20 47					
46	13	I	e	4 56 40?					
			Mn	5 00 35	15.0	0.4			
			Me	03.0			0.2		
			F	5 08					
47	15	I	e(P)	22 13 10					
			e(S)	19 00?					
			L	22 38?					
			Me	23 00			0.3		
			Mn	27 30	13.5	0.4			
			F	22 40					
47	15	I	S	10 43 10					
			Me	53.3			0.5		
			Mn	53 35	20.0	1.5			
			F	11 20					
49	20	Ir	eP	16 29 05?				8200	Milne-Shaw records faulty on 20th & 21st
			iS	33 58					
			L	36.1					
			Me	38.2			0.3		
			F	17 15					
50	21	Iu	i	12 14 17					
			e	20 00					
			e	27 00					
			L	33 55?					
			Me	42.1			1.4		
			F	in micros.					
51	25	Ir	iP	11 36 13				2360	
			iS	40 03					
			L	40 48					
			Me	41 00			1.1		
			Mn	41 28	8.5	1.7			
			F	12 30					
52	26	Iu	iS	16 42 25					
			$e(SR_1)$	48 40					
			eSR_2	53 00					
			i	55 27					
			L	17 01 15?					
			Mn_1	07 45	21.5	1.7			
			Me_1	09 50			0.6		
			Mn_2	10 50	20.0	1.4			
			Me_2	13 30			0.7		
			Mn_3	17 30	20.0	1.0			
			eW_2	18 37 00					
			Mn	43 35	20.0	0.5			
			Me	44.5			0.2		
			F	19 15					

ADELAIDE OBSERVATORY.

Seismological Bulletin No 4 Continued.

APRIL 1930.

No	date Apl.	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks.
53	27	Iu	eP	14 37 23?					
			iS	45 48					
			L	56.6					
			Mn	15 00 40	14.0	0.5			
			Me	01 20			0.4		
			F	16 10					
54	27	Ir	eP	21 43 24				2940	
			i	43 50					
			i(PR)	44 04					
			iS	48 00					
			i	48 34					
			i(SR_1)	49 00					
			L	49 44?					L waves have
			Me	55 50			0.3		short period
			Mn	56 00	14.0	1.6			vibration
			F	22 40					superposed.
55	28	Iu	e	18 50 10					
			eL	19 06 35?					
			Mn	17 25	18.0	0.8			
			Me	18 45			0.3		
			F	20 10? in micros.					
56	30	I	i(S)	16 20 07					Air tremors
			i	23 44					strong,
			i	24 50					masking
			L	26 28					phases.
			Mn	28 00	18.0	1.2			No definite
			F	17 20?					Me.

CONSTANTS. Milne-Shaw(N-S) period 14.5 seconds- Damping ratio 2o : 1. Magnification(Nominal) 150.

Milne(E-W) Period 19.0 seconds.
Sensitivity. 0".35.

ADELAIDE OBSERVATORY.
SEISMOLOGICAL BULLETIN MAY 1930.

Bulletin No.5

No	Date	Char.	Phase	Time (Greenwich) H. M. S.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks.
57	1	I	i	1 18 14					
			i	18 32					
			L	28.0?					
			Me	34.5			0.2		
			Mn	39.5	21.0	0.5			
			F	2 10					
58	1	I	eL	10 31 30					
			Mn	35 05	20.0	0.8			
			Me	38.7			0.4		
			F	11 30					
59	2	Ir	iP	1 48 09				3470	
			iS	53 20					
			L	55 41					
			Mn_1	58 ~~55~~50	17.0	4.9			
			E	~~22x1~~					
			Me_1	58.4			1.0		
			Mn_2	2 00 40	13.5	3.1			
			Mn_3	01 33	12.0	3.6			
			Me_2	01.8			0.8		
			F	3 10					
60	2	I	eP	6 08 00?					Times approx No time marks from 4^h15^m – 10^h35^m
			iS	14 20?					
			Mn	19.4?	17.0	3.7			
61	3	I	eS	12 35 26					Amplitude of phases very small.
			eL	38 31?					
			Mn_1	41.0	20.0	1.0			
			Mn_2	43 10	14.5	1.6			
			Me	44.0			0.4		
			F	13 26					
62	3	I	iS	15 35 06					P. probably in hour break.
			eL	38 43?					
			Mn_1	41 05	16.0	1.9			
			Mn_2	43 40	16.0	1.7			
			Me	43 15			0.5		
			Mn_3	44 40	11.5	2.1			
			F	16 20					
63	4	I	e(S)	8 13 57					
			L	18.5					
			Mn	20.8					
			F	8 32					
64	5	IIIu	iP	13 56 40				?480	
			i(PR2)	14 01 21					
			iS	05 35					
			i	09 39					
			i	12 31					
			iL	16 41					
			Mn_1	19.2	21.0	25.6			Other Mns too faint.
			Me_1	22.0			10.0		
			Me_2	25.0			15.5		
			Me_3	28.5			18.0		
			F	17 55					
65	6	IIu	i(S)	23 01 32					Amplitude before this very small.
			i	09 00					
			i	13 04					
			iL	20 25					
			Mn_1	26.6	35.0	8.4			
			Mn_2	33 55	21.0	4.9			
			Me_1	37.5			1.7		
			Mn_3	37 58	21.0	4.8			
			Me_2	39.0			1.8		
	7		Me_3	43.5			6.0		
			F	2 05					

ADELAIDE OBSERVATORY.

MAY 1930 Bulletin No. 5 Contd.

No	Date May	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks.
66	7	Ir	eP	3 12 32				2330	
			iS	16 19					
			eL	17 34					
			Mn	18 45	5.5	0.8			
			F	3 45					
67	8	Ir	eP	12 55 12?				4500?	Obscured by micros.
			eS	13 01 24?					
			L	05 29					
			Me	08.5			0.2		
			Mn	09 03	11.5	1.5			
			F	in No. 68					
68	8	Ir	e	13 42 20					
			i(S)	47 00					
			i(L)	49 17					
			Mn_1	52 45	16.0	2.3			
			Me_1	55.4			1.7		
			Mn_2	55 35	12.5	3.9			
			Mn_3	56 40	12.0	3.8			
			Me_2	56.9			1.2		
			F	15 13					
69	8	I	e?	16 20 37					
			e	30 50					
			e	36 46					
			Me	35.2			0.5		
			Mn	36.4	19.0	0.5			
			F	17 30					
70	10	I	e	0 04 34					Very small
			i	07 50					
			F	0 25					
71	10	I	i(S)	12 35 21					
			iL	35 48					
			Mn	35 54	7.0	0.7			
			F	12 39					
72	12	I	L	2 52 20?					Phases unrecognisable in air tremors
			Mn	57 30					
73	18	I	eP	0 07 46?				3550	
			i(PR_2)	08 53					
			iS	13 00					
			i	14 18					
			iL	16 31					
			Me_1	18 50			0.7		
			Mn_1	19 05	12.0	2.4			
			Mn_2	21 42	12.0	3.4			
			Mn_3	23 05	10.5	3.1			
			F	1 05					
74	19	Iu	eL	3 55 35					
			Mn_1	4 02.4	18.0	0.9			
			Me	02.7			0.3		
			Mn_2	06.5	18.0	0.8			
			Mn_3	09 35	14.5	1.1			
			F	4 50					

ADELAIDE OBSERVATORY.

MAY 1930 Bulletin No. 5 Continued.

No	Date May	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of	A N	A E	Δ in kms.	Remarks.
75	19	I	i(S)	15 21 32					Record confused.
76	20	Ir	eP	7 49 38				3650	
			iS	54 49					
			eL	57 45					
			Me_1	8 01 40			1.0		
			Mn_1	03 11	12.0	2.5			
			Me_2	03 40			1.0		
			Mn_3	03 50	12.5	3.2			
			Mn_3	04 25	12.0	2.6			
			F	8 40					
77	20	Iu	iS	11 39 21					
			iSR_1	45 39					
			eL^1	58.5					
			Mn_1	12 02 20	21.5	1.1			
			Mn_2	07 25	18.0	0.8			
			Me	12.0			1.1		
			F	12 50					
78	21	I	e	12 12 25?					Record confused just here. E-W movement very small for both 78 & 79
			Mn	19 05	15.5	0.7			
			F	12 36					
79	23	I	e(L)	0 31 05					
			Mn	41 00	14.0	0.6			
			F	0 59					

CONSTANTS. Milne-Shaw(N-S) Period 16.2 seconds. Damping ratio 20 : 1
Magnification (nominal) 150
Milne(E-W) Period 19.0 seconds. Sensitivity 0".35.

ADELAIDE OBSERVATORY.

JUNE 1930 Seismological Bulletin No.6

No.	Date June	Char.	Phase	Time (Green^d) H. M. S.	Recorded period of Waves N-S	A N mm.	A E mm.	△ in kms.	Remarks.
80	1	Iu	P	13 14 11?				6300?	Obscured by micros.
			iS	22 03					
			i	27 12					
			L	30 11					
			Mn_1	37 35	16.5	3.5			
			Mn_2	39 10	15.5	4.0			
			MXXXXXXXXXXXX				XXX		
			Me_1	39 10			3.5		
			Me_2	40 30			2.5		
			Mn_3	41 50	10.0	3.9			
			F	14XX29?	in micros.				
81	4	Ir	iP	9 56 06				4900	all very shprt period vibrations.
			i	57 13					
			i	10 00 35					
			iS	02 39					
			iSR_1	05 51					
			L	07 42?					
			Me	09 10			0.6		
			Mn	11 20	10.0	2.1			
			F	11 05					
82	5	Ir	eP	11 49 57?				4000?	P. masked by micros.
			iPR	51 14					
			iS	55 32					
			L	59 34					
			Mn_1	12 02 40	17.6	3.7			
			Me_1	03 50			1.4		
			Mn_2	03 55	12.5	4.0			
			Me_2	04 45			1.4		
			Mn_3	04 45	11.5	4.8			
			Me_3	14 50			1.3		
			F	13 10					
83	8	I	S	17 57 25?					Time approx. No time marks from 14^h 17^m to 19th 0^h 18^m
			L	59 25?					
			Mn	18 01 50?	18.0	1.0			
84	11	IIr	iP	0 55 54				3230	
			i	56 11					
			iPR_1	56 43					
			iS	1 00 50					
				01 08		14.8			
			i	01 16					
			iSR_2	02 41					
			iL	03 52					
			Me_1	06 55			4.0		
			Mn_1	07 50	18.5	23.5			
			Me_2	08 50			7.8		
			Mn_2	09 30	17.5	16.7			
			Me_3	09 40			7.3		
			Mn_3	11 20	15.0	11.0			
			Me_4	12 10			2.4		
			eW_2	3 40 10					
			F	3 56					
85	11	I	e	8 48.9					
			e(L)	48.0					
			Mn	48.5		0.3			
			Me	48.5			0.2		
			F	8 55					
86	15	I	e	11 53 12					
			e	57 10					
			Mn	12 00 00	12.5	0.5			
			Me	01.5			very small.		

No.	Date June	Char.	Phase	Time (Green^{h}) H. M. S.	Recorded period of Waves N-S	A N mm.	A E mm.	△ in kms.	Remarks.
86	15	I	ɔ	7 50 42					
			ɔL	57 40					
			Mn	8 00.5	17.0	0.3			
			Me	01.5			0.2		
			F	8 26					
88	15	Iu	ɔS	21 29.3?					Times approx. No time marks from 14^{h} 55^{m}
			L	39.8?					
			Mn	45.5?	17.0	1.5			
			Me	48?			0.9		
89	19	Iu	ɔP	13 17 55				5100?	
			ɔS	24 41					
			iL	29 20					
			Mn_1	30 15	24.0	1.7			
			Mn_2	32 35	20.0	1.8			
			M_2	35 40			0.8		Two shocks, records overlap.
			i(S)	45 00					
			iL	48 43					
			Mn_1	49 45	23.5	2.0			
			Me_1	51 30			0.6		
			Mn_2	52 40	19.0	1.8			
			Me_2	55 55			0.9		
			F	14 25					
90	21	I	iS?	20 38 42					Strong Air Tremors.present.
			L	40 18					
			Me	43.8			0.3		
			Mn	44 30	13.0	0.7			
91	23	Ir	ɔP	19 40 37				3410	
			iS	45 44					
			iL	48 10					
			Mn_1	53 30	17.0	2.0			
			Mn_2	54 05	14.5	2.6			
			Me	54 25			0.7		
			F	20 25					
92	25	Iu	ɔ	10 38 04					
			ɔ(S)	47 55					
			i	54 32					
			ɔ(L)	11 08 35					
			Mn_1	20.0	17.0	0.5			
			Me	20.6			0.2		
			Mn_2	24.5	17.0	0.5			
			F	13 05					
93	25	Iu	ɔP	21 36 37?					
			ɔ	47 32					
			i	51 57					
			ɔ	59 10					
			ɔ	22 01 20					
			ɔL	14 38?					
			Mn	22 20	19.0	0.8			
			Me	24.9			0.3		
			F	24 08					
94	26	I	ɔ(S)	14 40 58					
			Me	41.3			0.2		
			L	41 48?					
			Mn	42 20	6.5	0.3			
			F	14 55					
95	30	I	ɔ	13 06 14					
			ɔL	12 15?					
			Mn_1	18.6	12.5	0.3			
			Me	20.5			0.2		
			Mn2	22.5	11.5	0.4			
			F	13 44					

CONSTANTS. Milne-Shaw(N-S) Period 16.5 Secs:Damping Ration 20:1.
Magnification (Nominal) 150.- Milne (E-W) Period 19.4 Secs.
Sensitivity .33

ADELAIDE OBSERVATORY.

SEISMOLOGICAL BULLETIN JULY 1930.

No.	Date July	Char.	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S	A N mm	A E mm	Δ in kms.	Remarks
96	3	IIu	P	21 15 30?				8400	P – S 5 secs. lines of rcd. crossed
			iS	25 13					
			iSR_1	30 36					
			L	37 30					
			Mn_1	43 45	27.0	5.0			
			Me_1	45 25			1.3		
			Mn_2	46 20	24.5	4.5			
			Mn_3	50 00	21.0	4.1			
			Me_2	51 25			1.4		
			Mn_4	51 35	21.5	4.0			
			Me_3	53 50			1.1		
			Me_4	56 40			1.2		
			Me_5	22 00 35			1.4		
			F	23 40					
97	5	Ir	eP	18 04 18				4300	No Milne-Shaw rcd.
			eS	10 21					
			e(SR_1)	13 03					
			L	14 15					
			Me_1	15 45			0.6		
			Me_2	18 10			0.6		
			F	in micros.					
98	12	I	e	12 31.1					
			e	35 42					
			L	38.5					
			Mn	40 20	20.0	0.4			
			Me	40.5			very small		
			F	12 51					
99	12	I	e	14 10 30					
			L	13 28?					
			Mn	15 25	12.5	0.3			
			Me	15 25			0.2		
			F	14 30					
100	13	I	e?	1 43 13					Phases very obscure, Milne movement very small
			e	51 14					
			L	56 45?					
			Mn	2 07.9	16.0	0.4			
			F	2 45					
101	13	I	e	8 49 10					
			i(S)	53 29					
			L	54 34?					
			Me	55.3			0.15		
			Mn	55 25	11.0	0.5			
			F	9 10					
102	13	Iu	e(S)	19 49 49					
			L	20 04 28?					
			Mn	17.0	26.0	0.6			
			F	20 50					

Adelaide Observatory Seismological Bulletin.

Bulletin No.7 Continued. JULY 1930

No	Date July	Char.	Phase	Time (Green^{n}) H. M. S.	Recorded period of Waves N-S	A N mm.	A E mm.	△ in kms.	Remarks
103	14	Iu	e(P)	23 00 10					Milne(E-W Component) off level.
			i	03 17					
			e(S)	13 30					
			i	17 00					
			i	21 45					
			L	41.9?					
			Mn_1	47.5	20.0	0.8			
			Mn_2	0 07 25	18.0	1.1			
			F	1 30					
104	22	Iu	eP	19 38 07?				8280	P.masked by micros.
			iS	47 42					
			L	59 05					
			Mn	06 35	15.0	0.5			
			Me	06 35			0.2		
			F	20 50					
105	25	Ir	eP	9 15 26				3400	P. & S. very small movements.
			eS	20 34					
			L	22 40					
			Mn	23 15	14.5	0.7			
			Me	25.5			0.2		
			F	9 50					
106	26	I	e	13 07 18					very small movement
			e	12 10					
			Mn	16.7		0.3			
			F	13 24					
107	27	I	e	2 12 25?					heavy micros on 28th, 29th & 30th.
			e	18 22					
			Me	19.9			0.3		
			Mn	21 45	11.5	0.5			
			F	2 35					

CONSTANTS.

Milne-Shaw(N-S) Period 15.5 seconds. Damping ratio 20 : 1.
Magnification(nominal) 150.

Milne(E-W) Period 19.8 seconds Sensitivity 0".32.

ADELAIDE OBSERVATORY

SEISMOLOGICAL BULLETIN AUGUST 1930

Bulletin No. 8.

No.	Date Aug.	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A N mm.	A E mm.	△ in kms.	Remarks
108	2	Iu	e	16 18 48					Milne-Shaw rcd. undecipherable, lines run together.
			iS	24 45					
			e	28 32					
			e	32 05					
			L	35 35					
			Me	39 45			1.5		
			F	17 45					
109	2	I	e	22 12 25					
			Mxn	15 50	10.0	0.4			
			Me	16.4			0.3		
			F	22 30					
110	10	I	e	0 04 27					
			Mn	09 40	19.5	0.4			
			Me	12.0			0.4		
			F	0 25					
111	18	IIu	iP	10 06 32				9350	
			iPR_1	10 02					
			iS	16 58		0.8			
			i	17 31		1.9			
			i	17 51					
			SR_1	22 53					
			eL	34.0					
			Mn	42 42	22.2	6.3			
			Me_1	43 15			1.1		
			Me_2	44 50			1.2		
			F	12 30					
112	19	I	e	1 21 50?					
			L	25 07					
			Mn	27 15	13.0	0.8			
			Me	28.5			0.2		
			F	1 43					
113	20	Iu	eP	21 04 21				6670	
			iS	12 33					
			i	13 00					
			L	22 25					
			Me_1	26.0			0.7		
			Me_2	30.2			0.6		
			Mn	31 20	17.0	1.1			
			F	22 20					
113	24	Ir	iS	9 20 10					
			L	23 27?					
			Mn_1	25 20	17.0	1.9			
			Me	25 35			1.2		
			Mn_2	28 33	12.5	2.1			
			F	10 28					
115	27	Ir	eP	14 50 17?				4500?	
			e(PR)	51 34					
			iS	56 29					
			L	15 00 38					
			Mn	04 55	12.5	2.0			
			F	15 35?					

in micros.

CONSTANTS. Milne-Shaw (N-S Component) Period 14.5 seconds. Damping Ratio 20 : 1. Magnification (nominal) 150.
Milne (E-W Component) Period 19.2 seconds. Sensitivity 0".32.

No.	Date Sept	Char.	Phase	Time (Green^{h}) H. M. S.	Recorded period of Waves N-S	A N mm	A E mm	Δ in kms.	Remarks
116	1	I	e	17 09.1					Poor rcd.
			eL	20 05					
			Mn	21 10	13.5	0.5			
			Me	22.3			0.2		
117	6	I	e	6 55 04					Persistent micros.
			e	7 00 15					
			Me	02 35			0.3		
			Mn	02 45	10.5	0.4			
			F	7 10					
118	6	I	e	17 17 05					
			i	23 31					
				23 36		0.6			Greatest movement. No def. max. P. in micros
			F	in micros.					
119	13	Ir	iS	23 28 33					
			iL	31 08					
			Mn_1	32 20	12.0	1.3			
			Me_1	34 20			0.5		
			Mn_2	35 40	14.5	2.9			
			Mn_3	36 25	10.5	2.7			
			Me_2	37 00			0.7		
			Mn_4	37 18	10.5	2.8			
			F	00 15?					
120	14	Ir	iP	3 06 36				2980 (26°.9)	
			i	07 09					
			iS	11 15					
			i	11 41					
			iL	13 00					
			i	13 13					E-W greatest movement 3^{h} 13^{m}.9, gradually decreasing afterwards.
			Mn_1	14 40	10.0	3.9			
			Mn_2	17 10	10.5	4.1			
			Mn_3	18 00	9.5	3.1			
			F	± 40					
121	14	Ir	iP	17 19 33				3410 (30°.7)	
			iS	24 40					
			iL	27 40					
			Mn	29 10	10.0	3.4			
			Me	32 10			0.8		
			F	18 00					
122	16	I	i?	10 20 30					
			L	24 22?					
			Mn	28 15	12.5	0.8			
			F	10 45					
123	21	I	e(S)	8 43 33					Milne-Shaw rcd. almost indecipherable, lines run together.
			Mn	52 30	13.5	1.2			
			Me	52 30			0.2		
			F	9 15					
124	21	Iu	eP	23 15 36				8000	
			iS	21 57					
			iSR_1	33 14					
			L	37 42					
			Mn_1	45 00	16.0	1.7			
			Mn_2	47 15	16.5	2.2			
			Me_1	48 30			2.0		
			Me_2	50 25			2.7		
			Me_3	52 25			2.4		
			F	lost in No.125					
125	22	I	e?	0 36 30					
			i	39 45					
			L	43 04					
			Mn_1	44 35	10.0	1.4			
			Me	45 10			0.6		
			Mn_2	45 40	10.0	1.3			
			F. in No.126						

ADELAIDE OBSERVATORY.

SEPTEMBER 1930. Bulletin No.9 Contd.

No.	Date Sept. 1930	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A N mm	A E mm	Δ in kms.	Remarks.
126	22	IIr	eP	1 37 55?				3880	
			iS	43 30					
			iL	46 12					
			Mn_1	47 30	11.5	3.7			
			Mn_2	51 15	13.0	6.7			
			Me_1	51 40			5.4		
			Mn_3	53 10	10.5	7.4			
			Me_2	53 20			5.0		
			Mn_4	55 15	14.5	7.3			
			Me_3	54 20			2.6		
			Me_4	55 25			2.3		
			Mn_5	58 50	12.5	6.2			
			F	+ 45? in all tremors.					
127	23	I	e	5 41 19					
			L	45 05					
			Mn	48 40	14.0	0.7			
			Me	49.4			0.23		
			F	6.08					
128	24	I	i(S)	12 22 00					
			L	37 18					
			Me	24 50			0.7		
			Mn	37 45	18.0	0.8			
			F	12 55					
129	25	Ir	eP	18 13 00?				3750?	
			iS	18 36					
			i	21 10					
			iL	21 48					
			Mn_1	22 35	14.0	1.5			
			Me_1	22 45			0.3		
			Mn_2	26 40	12.5	3.7			
			Me_2	27 10			1.3		
			Mn_3	30 25	12.5	3.7			
			F	19 47					
130	26	I	e	19 56.0					Milne-Shaw recds. faint on 26th & 27th.
			eL	20 00.1?					
			Me	03.0			0.3		
			F	20 15					
131	26	I	eS	21 34.9					
			eL	37.1?					
			Me	40.6			0.3		
			F	22 05					
132	27	I	e	17 57.8					
			eL	18 00.6					
			Me	02.7			0.2		
			F	18 15					
133	30	IIIr	eP	21 27.1? Micros present				3700	Milne-Shaw ~~xx~~ off level on 30th from $20^h\ 30^m$ to $23^h\ 40^m$
			iS	32 30					
			i	34 08					
			iL	35 30					
			Me_1	36 00			0.7		
			Me_2	39 05			21.5		
			Me_3	43 00			6.0		
			F	23 35					

CONSTANTS. Milne-Shaw (N-S Component) Period 1st-24th 13.0 seconds 25th-30th 16.1 secs. Damping ration 20 : 1. Magnification 150.

Milne- (E-W Component) Period 20.5 secs. Sensitivity 0".32.

Seismological Bulletin | October 1930 Continued.

No	Date Oct.	Char.	Phase	Time (Greenn) H. M. S.	Recorded period of Waves N-S	A N mm.	A E mm.	△ in kms.	Remarks.
143	22	Ir	eP	18 12 20				3460	
			iS	17 30					
			SR_2	19 32					
			i	21 15					L.very indefinite.
			Me	23.4			0.5		
			Mn_1	25 10	17.5	1.4			
			Mn_2	28 00	15.0	1.2			
			F	18 50					
144	23	Ir	S	9 10 10					
			i	13 22				4400?	S. may be a few secs. earlier, rcd. confused.
			L	14 40?					
			Mn_1	17 20	16.0	3.2			
			Me_1	19 00			0.8		
			Mn_2	19 30	13.5	3.4			
			Me_2	21 05			1.0		
			Me_3	27 20			1.4		
			F	11 00?					
145	24	IIu	iP	20 24 31					
			i	27 00				5920	
			iS	32 01					
				32 05		16.0			
			i	34 20					
			iSR_2	38 06					
			iSR_3	38 35					
			i	39 12					
			iL	40 15					
			Me_1	42 00			4.4		
			Me_2	44 15			7.9		
			Mn_1	44 25	16.0	11.3			
			Me_3	45 55			6.3		
			Me_4	47 05			6.0		
			Mn_2	47 15	18.0	8.3			
			Mn_3	48 00	20.0	9.8			
			Me_5	49 00			4.0		
			Mn_4	51 20	16.5	8.2			
			Mn_5	53 10	14.5	7.7			
			eW_2	22 50.4					
			Mn_1	56.1	22.0	0.8			
			Mn_2	23 02.0	21.0	0.9			
			F	23 41					
146	27	I	e	12 42.9					
			Me	47.6			AX2		Milne-Shaw rcd. undecipherable, lines run together.
			F	12 57			0.2		
147	27	I	e	14 26 05					
			eL	28.7					
			Mn	30.6					
			Me	31.6		0.3			
			F	14 47			0.3		
148	28	Iu	P	21 19 38?					
			iS	27 13				6000?	Rcd. indistinct at P.
			i	27 22					
			e	32 22					
			L	35 07?					
			Me_1	39.5			2.0		
			Me_2	41.6			1.4		
			Mn_1	43.4	20.0	2.0			
			Me_3	43.9			1.1		
			Mn_2	44.9	16.0	2.6			
			Mn_3	47.0	17.0	2.2			
			F	22 40					

ADELAIDE OBSERVATORY

Seismological Bulletin OCTOBER 1930 Bulletin No 10

No	Date Oct.	Char.	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S	A N mm.	A E mm.	Δ in kms.	Remarks.
134	2	I	i	1 05 30					Obscured by air tremors. No definite Me.
			Mn	12 05	15.0	0.8			
			F	1 30					
135	2	I	e	7 01 00?					
			e	07.0?					
			Me	10.6			0.3		
			Mn	12.0	13.0	0.5			
			F	7 35					
136	3	Ir	eP	18 18.1				4000?	Milne-Shaw off level.
			iS	23 58					
			L	27 22					
			Me	30.0			0.8		
			F	19 00					
137	5	I	e	2 31.6					No Milne-Shaw rcd.
			Me	41.4			0.3		
			F	3 05					
138	5	I	S	18 48.5)approx.					Time marks failed at 18^h33^m.
			L	51.3)					
139	8	IIIr	iP	10 26 08				3700	
			iPR_2	27 22					
			iS	31 32					
				46		5.3			
			i	31 52					
			$i(SR_1)$	33 38					
			$i(SR_2)$	34 10					
			iL	34 37					
			Me_1	38 00			3.8		
			Mn_1	38 20	17.7	12.8			
			Mn_2	39 15	16.0	21.2			
			Me_2	39 55			7.2		
			Mn_3	40 35	13.3	30.1			
			Me_3	40 35			5.4		
			Mn_4	41 30	12.0	23.3			
			Me_4	41 40			3.2		
			Mn_5	42 05	11.5	12.6			
			Me_5	42 25			3.2		
			Mn_6	42 45	9.5	11.2			
			F	12 50					
140	8	I	e	19 23 14					
			Mn	28 10	17.0	0.7			
			F	19 45					
141	16	I	e	20 49 58?					
			i	59 20					
			Mn	21 07 20	17.0	0.6			
			Me	08 20			0.7		
			F	21 35					
142	17	I	e?	8 59.4					
			e	9 06.2					
			e	11 05					
			Mn	15.2	10.0	0.6			
			Me_1	15.7			0.2		
			Me_2	22.2			0.3		
			F	9 55					

ADELAIDE OBSERVATORY.

Seismological Bulletin October 1930 Continued.

No.	Date Oct.	Char.	Phase	Time (Greenn) H. M. S.	Recorded period of Waves N-S	A N	A E	△ in kms.	Remarks.
149	31	Ir	iP	10 30 31				3540	
			i	31 51					
			iS	35 46					
			i	38 10					
			L_1	38 48					
			iL_2	39 32					
			Mn_1	41 25	17.0	4.7			
			Me_1	41 25			2.0		
			Mn_2	42 05	17.0	4.4			
			Mn_3	42 55	18.0	4.8			
			Me_2	43 35			4.1		
			F	12 15					
150	31	Ir	eP	16 07.1?				4500?	
			iS	13 23					
			eSR_1	16 21					
			L	17 20					
			Mn_1	18 45	18.0	0.7			
			Me_1	18 55			0.4		
			Mn_2	21 15	12.0	1.4			
			Me_2	21 25			0.5		
			Mn_3	21 45	10.5	1.2			
			F	17 05					
151	31	I	e	18 20 39					
			L	24 05					
			Mn	26 40	14.0	0.4			Me very small.
			Me	27.5					
			F	in No 152					
152	31	I	eP	18 34 55?					
			iS	41 25					
			L	45 40					
			Me	49.3			0.5		
			Mn_1	49 25	11.0	1.4			
			Mn_2	49 55	10.5	1.3			
			F	19 40					
153	31	I	e	22 09.0					
			Mn	16.4	13.0	0.3			
			Me	17.0			0.2		
			F	22 35					

Constants. Milne-Shaw(N-S Component) Period- 16.5 seconds on 1st to 18.0 seconds on 28th. Adjusted to 16.1 seconds on 28th. Damping ratiox 20 : 1. Magnification(nominal)150
Milne-(E-W Component) Period 20.7 seconds.
Sensitivity 0".29.

ADELAIDE OBSERVATORY.

Seismological Bulletin NOVEMBER 1930 Bulletin No.11

No.	Date Nov.	Phase	Time (Green^h) H. M. S.	Recorded Period of Waves N-S	A N mm	A E mm	△ in kms.	Remarks.
154	1	iS	12 43 57					
		L	47 30					
		Me	51 35					
		F	13 30			0.8		Milne-Shaw rcd. faulty.
155	1	e	17 31 50					
		Mn	33.3	13.0	0.2			
		Me	33.35			very small		
		F	17 55					
156	8	iS	3 35 05					
		i	38 22					P.small, comes where lines of rcd.run together.
		Mn	38 35	10.0	1.6			
		iL	40 12					
		Mn	45 55	17.0	1.0			
		Me	46 25			0.5		
		F	4 10					
157	9	iP	19 15 31					
		i	16 43				3650	
		iS	20 53					
		i	21 26					
		i	22 35					
		i	23 43					
		iL	24 04					
		Mn_1	26.5		8.1			
		Me_1	28.0			5.7		Complex long waves 30140 secs. period with smaller period vibrations superimposed.
		Mn_2	30.05	12.0	13.8			
		Me_2	30.10			17.5		
		Me_3	31 20			13.0		
		Mn_3	31 50	16.0	14.2			
		Me_4	32 15			6.0		
		Mn_4	32 55	15.0	20.0			
		Me_5	33 35			6.0		
		Mn_5	34 45	16.0	33.5			
		Me_6	35 00			4.2		
		Me_7	37 25			5.5		
		F	lost in No.158					
158	9	i?	21 28 59					
		e(L)	32 00					
		Me	33 40			0.6		
		Mn	36 10	12.0	0.6			
		F	21 55					
159	10	e	8 48 10					
		Me	50 50			0.5		
		Mn	52 50	13.0	0.8			
		F	9 00					
160	10	eP	13 50 30					
		i	50 45				3710	
		iS	55 55					
		i(L)	59 07					
		Me_1	14 02 50			8.7		
		Me_2	04 20			8.6		
		Mn_1	05 10	13.5	20.1			
		Me_3	05 25			8.8		
		Mn_2	06 10	9.0	22.3			
		Me_4	07 05			3.7		
		Mn_3	07 15	8.5	12.0			
		Mn_4	08 50	11.0	11.6			
		Me_5	09 20			6.0		
		Me_6	10.15			6.0		
		F	15 50					

ADELAIDE OBSERVATORY

Seismological Bulletin November 1930 Continued.

No	Date Nov.	Phase	Time (Greenwich) H. M. S.	Recorded Period of Waves N-S	A N mm	A E mm	Δ in kms.	Remarks.
161	11	P	20 0?4 15?				3800?	
		iS	09 43					
		L	13 20					
		Mn_1	14 25	11.0	1.3			
		Me	18 40			1.0		
		Mn_2	20 15	14.0	0.9			
		F	20 37					
162	13	i(S)	23 19 09					Phases obscured by heavy micros.
		L	24 20					
		Me	25 15			1.4		
		Mn	27 20	12.0	3.0			
		F	23 55					
163	17	i	12 14 55	26				Long period waves.
		iL	19 16					
		Mn	22 20	20	1.2			
		Me	23 35			0.6		
		F	13 00					
164	20	i	3 25 57					Phases lost in changing record.
		Mn	29.3	16	0.5			
		F	3 46					
165	21	eP	3 10 07					
		eS?	15 10					Obscured by micros.
		Me	22.3			0.5		
		Mn	25 30	15	0.7			
		F lost in micros.						
166	22	eP	14 04 36				3900?	Phases obscured by micros.
		eS	10 11					
		L	13 55					
		Mn_1	16 50	16	1.4			
		Mn_2	18 35	11	1.2			
		Me_1	18 45			2.2		
		Me_2	20 40			1.7		
		Mn_3	23 30	11	1.6			
		F	15 30					
167	23	e	1 40.0?					
		e	43 15					
		Mn	46 20	18	0.4			
		Me	48 50			0.5		
		F	2 30					
168	24	e	2 58 10					Early phases obscured by micros. L. lost in changing rcd.
		Mn_1	3 09 00	18	1.0			
		Me	10 45			0.8		
		Mn_2	15 05	14	1.0			
		F	3 30					

ADELAIDE OBSERVATORY.

Seismological Bulletin November 1930 Continued.

No.	Date Nov.	Phase	Time (Green^h) H. M. S.	Recorded Period of Waves N-S	A N mm	A E mm	△ in kms.	Remarks.
169	25	iP	19 14 06				7670	Japan.
		iS	23 10					O. 19 03 02
		i	23 40					
		iL	35 11					
		Me_1	37 05			2.4		
		Me_2	38 40			3.3		
		Mn_1	41 55	20	6.6			
		Me_3	42 40			3.3		
		Mn_2	42 55	20	7.2			
		Me_4	44 25			3.2		
		Mn_3	44 45	20	6.4			
		Me_5	46 00			2.0		
		Mn_4	46 10	15	4.6			
		Mn_5	47 45	16	3.4			
		Me_6	47 45			1.7		
		Mn_6	49 10	15	3.7			
		F	21 20? in micros.					
170	26	e	5 06 42					
		e(S)	09 23					
		L	11 39					
		Mn	13 30	16	1.8			
		Me	13 40			0.9		
		F	5 40					
171	28	e	8 26 25					
		eL	33 26?					N-S record very shallow waves, no definite max.
		Mn	~~x8x40~~					
		Me	39.0			0.5		
		F	9 15					
172	30	e	21 10 09					
		e?	14 43					
		L	15 19					
		Me	18.6			0.5		
		Mn	18.6	19	0.6			
		F	21 50					

CONSTANTS. N-S

Milne-Shaw (N. Component) Period $16^s.0$ Damping ratio 20 : 1.
Magnification (nominal) 150.

Milne. (E-W Component) Period $20^s.4$ Sensitivity 0".28

ADELAIDE OBSERVATORY.

SEISMOLOGICAL BULLETIN DECEMBER 1930. Bulletin No.13

No.	Date Dec.	Phase	Time (Green^{h}) H. M. S.	Recorded Period of Waves N-S	A N mm	A E mm	Δ in kms.	Remarks.
173	2	e	7 26 05?					Rcd.slightly fogged-difficult to (read. No definite xxxMe.
		eL	39 14?					
		Mn	44.9	22	0.4			
174	3	eP	19 02 37				7440	
		iS	11 30					
		i	16 10					0. 18 51 47
		i	18 54					
		i(L)	21 41					
		Mn_1	24 30	27	4.8			
		Mn_2	27 55	20	7.7			No E-W. rcd.-Drum stuck.
		Mn_3	31 10	20	8.7			
		Mn_4	34 10	16	7.5			
		F	22 20					
175	8	e(P)	17 39 21				3650?	Phases masked by micros.
		iS	34 41					
		L	37 20?					
		Mn_1	42 15	15	2.0			
		Mn_2	44 00	12	2.0			
		Me_1	44 10			2.0		
		Mn_3	46 15	12	2.0			
		Me_2	47 55			1.5		
		F	18 55					
176	9	e	0 35 33					
		L	42 40?					
		Mn	45.4	14	0.3			
		Me	47.4			0.2		
		F	0 53					
177	12	e	9 24 39					
		Mn	26 50	18	0.2			
		Me	28.5			0.3		
		F	9 40					
178	12	eL	20 38 58?					Phases obscured.very small indefp movement on Milne rcd.
		Mn	32 30	12	0.4			
		F	20 50					
179	13	eP	2 41 08				2870	
		iPRl	41 44					
		iS	45 39					
		iL	47 32					E-W.largest movement. 2 47.5
		Mn_1	50 40	10	1.0			
		Mn_2	51 30	10	1.0			
		F	3 35					
180	16	e?	10 35 15					
		e	41 14					
		L	43 30					
		Mn	45.3	16	0.5			
		Me	48.3			0.6		
		F	11 15					
181	21	eP	15 00 58				6020	0. 14 51 34
		iS	08 24					
		i	09 48					
		L	16 30					
		Me	22.8			0.7		
		Mn	23.4	17	0.6			
		F	15 55					

ADELAIDE OBSERVATORY.

Seismological Bulletin December 1930 Continued.

No.	Date Dec.	Phase	Time (Greenh) H. M. S.	Recorded Period of Waves N-S	A N mm	A E mm	Δ in kms.	Remarks.
182	23	eP	21 42 09?				3800?	P.in micros.
		iS	47 39					
		L	51 40					
		Me_1	55 40			1.5		
		Mn_1	56 15	12	2.5			
		Mn_2	57 30	10	3.8			
		Me_2	57 40			1.2		
		Mn_3	58 20	10	3.1			
		F	23 00					
183	23	e	23 02 50					
		i(S)	05 32					
		L	09 23					
		Mn	11 20	16	0.7			E-W displacement very small.
		F	23 35					

Movement of amplitude 2.5mm. on 25th ~~xxxx~~ shown on Milne-Shaw record, impossible to find time as lines run together. Nothing definite distinguishable on Milne record-in heavy microseisms.

184	31	eP	20 21 34				3550	
		iS	26 40					
		i	28 18					
		(L2)	31 33					L.probably in hour break-approx $39^m\ 50^s$.
		Me_1	35 20			0.9		
		Mn_1	35 40	10	1.5			
		Mn_2	37 40	10	1.6			
		Mn_3	39 45	12	1.1			
		F	21 15					

~~xxxx~~ CONSTANTS.

Milne-Shaw (N-S Component) Period 15 seconds.
Damping ratio 20 : 1. Magnification 150
Milne (E-W Component) Period 20.1 seconds.
Sensitivity 0".42