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.

1907 imprint

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Milne-Shaw Seismograph, No. 35. N.—S. Component.

NOTATION.

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v (vicinus) = near (less than 1000km.).
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SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

January 1927 Bulletin No.1

No.	Date Jan.	Char.	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S-	A_N	A_E	△ in kms	Remarks
1	12	I	P	21 43 15?					Strong tremor Jan.12,21^{h}30^m. I.indistinguishable
			S	49 27					
			L	51 35					
			Me	54 45			0.6		
			Mn	55.00	13.3	2.6			
2	24	IIIr	eP	1 11 58				3340	A.T.is strong on 14th & 15th
			iS	17 04					
			iL	19 18					
			Mn1	20 42		20.4			
			Mn2	22 38	19.5	14.0			
			Me1	23 35			2.6		
			Mn3	24 35	14.1	15.3			
			Me2	25 40			11.7		
			Mn4	25 35		11.2			
			Me3	28 50			7.3		
3	24	IIr	P	6 48 58?				3000	Air tremors present
			iS	53 42					
			iL	55 26					
			Me1	57 20			1.0		
			Mn1	59 20		3.1			
			Me2	59 45			0.9		
			Mn2	7 01 10	13.3	3.7			
			Me3	01 20			1.6		
4	24	I	Mn3	8 32 10		0.7			
			Me	33 45			0.35		
5	25	Ir	P	7 59 04?				3200	
			S	8 04 00					
			L	06 10					
			Me1	07 10			0.4		
			Mn	10 00		1.3			
			Me2	13 15			0.6		
6	25	IIr	P	23 16 13				4000	
			iS	21 58					
			L	23 53					
			Mn1	27 50		2.8			
			Me1	29 40			1.2		
			Mn2	30 15		3.5			
			Me2	32 35			1.9		
			Mn3	33 55	13.1	6.8			
			Me3	33 30			1.8		
7	26	I	S	11 16 00?					Phases masked by air tremors
			L	19 50?					
			Mn	24 35		1.5			
			Me	27 40			0.6		
8	26	I	i	15 47 50?					Tremors bad
			L	48 49					
			Mn	53 42		2.4			
			Me	57 25			2.0		
			F	16 45 00 about					
9	29	I	L	15 42 40?					
			Mn	46 40		0.8			
			Me	49 20			0.3		

also tremor from 19^{m}11^s to 19^{m}37^s

Constants Milne-Shaw. Periods 12.0 Secs. Damping ratio 20:1
Milne - Period- 12th, 16.7 secs., 24th-29th, 16.5 secs.. Sensibility .49

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

February 1927 Bulletin No 2

No.	Date Feb.	Char	Phase	Time (Greenwich) H. M. S.	Recorded period of Waves N-S	A_N	A_E	Δ in kms	Remarks
10	1	11r	iP	18 03 00				3450	
		~~xPR2~~	iPR2	04 02					
			iS	08 09		4.2			
			L	10 53					
			Mn1	11 40		3.7			
			Mn2	14 55		5.0			
			Me1	14 20			1.9		
			Me2	14 50			1.8		
			Me3	16 05			1.9		
			Mn3	16 20	20.0	5.0			
			F	19 15? in micros					
11	4	Ir	eP	2 56 06				3200	
			iPR2	27 03					
			iS	3 01 03					
			L	05 20					
			Mn	05 35		4.2			
			Me	08 55			1.7		
			F in micros						
12	6	I	e	6 49 55					
			Me	53 30			0.3		
			Mn	53 30		0.7			
			E ~~xmxmixxxm~~						
			F	7 15 00					
13	9	I	L	5 57 58					Tremor Feb.11 11^h41^m to 11^h 52m
			Me	58 35			0.35		
			Mn	59 20		1.2			
			F in micros						
14	15	I	e	7 35 23					
			Mn	41 25		0.6			
			Me	43 40			0.25		
15	16	Ru	eP	1 47 44				7800	S lost in changing record. Succession of shocks M's. continue approx. same amplitude to 4h 10^m
			S	57 00?					
			L	2 09 12					
			Me1	13 20			0.9		
			Me2	18 05			1.3		
			Mn1	19 30		1.5			
			Me3	20 40			1.4		
			Mn2	23 00		1.8			
			F	5 00 00	approx.				
16	21	Ir	iP	12 32 21				3950	
			iS	38 08					
			L	41 33?					
			Mn	46 15		0.9			
			Me	47 20			0.7		
			F	13 28 00					
17	23	Ir	e(P)	2 55 10				2450?	Phases badly defined
			S	59 09?					
			L	3 00 35?					
			Me	02 20		1.8			
			Mn	04 02			1.1		
			F	3 59					

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

February 1927 Continued Bulletin No.2

No	Date	Char	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N.-S	A_N	A_E	In kms.	Remarks
18	24	I	He	22 03 50			Ø.3		
			Mn	05 58		0.9			
19	25	Ir	eP	15 49 12?				3200	P.masked by micros
			eS	54 04					
			SR1	55 21					
			L	56 23					
			Mn	58 40		1.4			
			Me1	16 00 40			0.7		
			Me2	04 10			1.5		
			F	16 30 00?					F.in micros
20	26	I	eP	2 12 35					
			e(S)	17 34					
			L	20 00					
			Mn1	22 25		1.5			
			Mn2	25 55		1.3			
			Me	28 25			0.8		
			F	3 01					

Succession of small tremors Feb.28th 14^h36^m to 16^h

Constants Milne-Shaw Period 12.0 secs. Damping ratio 20 : 1
Milne Period 16.3 secs. Sensibility 1st-.48;4th-.44, 6th-26th-.41.

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

March 1927 — Bulletin No.3

No	Date	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A_N	A_E	△ in kms.	Remarks
21	3	IIIr	P	1 11 35?				3900	P. masked by strong micros E-W record faint and unreadable
			iS	16 50					
			iL	20 36					
			Mn1	23 00		20.9			
			Mn2	24 25		22.2			
			Mn3	26 00	16.0	32.3			
			Mn4	27 30		23.3			
			F	2 55	in micros				
22	7	IIu	eP	9 38 59				7800	
			e	40 53					
			iS	48 12					
			L	59 54?					
			Me1	10 04 25			2.7		
			Mn2	05 13		3.9			
			Me2	08 10			3.3		
			Mn2	10 00		3.9			
			Mn3	11 55	18.3	4.8			
			Me3	12 00			2.8		
			F	11 42 00					
23	12	Ir	eP	1 18 50?				2600	P.in micros
			eS	23 04					
			L	24 22					
			Mn	26 30		1.5			
			Me	28 35			0.5		
24	21	I	i	15 24 33					
			Mn	36 35		0.7			
			Me	34 30			0.3		
25	22	Ir	eS	7 43 35					P.in micros
			L	47 32					
			Mn1	52 00		1.6			
			Mn2	53 35		2.0			
			Me	53 55			0.8		
			F	8 27 00					
26	23	I	e	9 27 50?					
			L	32 50					
			Mn	37 15		1.5			Small movement Mar.30th 14h 52m to 15h 05m
			Me	41 10			0.3		
			F	10 01 00					

Constants Milne Shaw. Period 12.0 secs. Damping ratio 20 : 1.
Milne. Period 3rd-12th,16.2 secs; 21st-23rd,15.8 secs.
Sensibility- 3rd &7th,.52; 12th,.55;21st-23rd,.52

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

APRIL 1927 Bulletin No.4

No.	Date Apl	Char	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S	A_N	A_E	Δ in kms	Remarks
27	1	Ir	iP	19 13 22				3900	
			iS	18 03					
			i(SRl)	21 25					
			iL	22 32					
			Mnl)	22 45		3.2			
			Mel)				0.6		
			Mn2	25 42		2.6			
			Me2	27 40			0.7		
			F	20 10 00					A.T's strong Apl.5th 12^h30^m to 23^h. and Apl 6, 8^h30^m to 22^h.
28	8	Iv	e	9 59 20					
			Mn	59 35		0.7			
29	13	Ir	P	13 51 26?					Tremor Apl. 13, 23^h27^m to $23^h\ 41^m$. Times uncertain-shutter nr.breaks failed.
			iS	58 28					
			L	14 02 30					
			Mn	12 28		0.6			
			Me	12 40			0.25		
30	14	Iw	PRl	6 37 00					ditto.
			S	45 40					
			L	7 08 00					
Severe Tremors Apl. 16th from 8^h37^m to $10^h\ 42^m$,									
31	17	Ir	P	9 12 32				4300?	
			S	17 42					
			L	21 54?					
			Mn	24 38?					
			F	9 39					
32	19	Im	S	17 46 23					P.in air tremors. Reported from Manila.
			L	53 20					
			Me	56 08			0.3		
			Mn	18 01 20		1.0			
			F	18 20					
33	27	I	P	3 02 13					Slight tremors on 21 1.Max.at $1^h15^m35^s$ 2.Max.at $3^h32^m08^s$. Light cut E-W inst.
			S	07 40					
			L	10 53					
			Mn	12 40		1.0			
			F	3 30					

Constants.

Milne-Shaw. Period 12.2 secs. Damping ratio, 20:1
Milne Period 15.9 " Sensibility .50.

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

MAY 1928

Bulletin.No 5.

No.	Date May	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S.	A_N	A_E	Δ in kms.	Remarks
34	2	I	iP	12 40 57					
			i(PR)	46 35					
			S	50 09					
			L	51 40					
			Mn	53 20		0.7			
			F	13 19					
35	3	Ir	P	13 47 12				3300	
			iS	52 18					
			L	54 26?					
			Mel	59 15			0.5		
			Mnl	14 00 30		1.0			
			Me2	01 30			0.6		
			Mn2	03 55		1.2			
			F	14 26					
36	11	IIr	eP	1 31 20?				2400?	P. masked in micros
			iS	34 56					
			L	36 23			XXX		
			Me	36 26			1.5		
			Mnl	38 00		3.7			
			Mn2	39 12		3.3			
			Mn3	40 15		3.9			
			F	2 26	in micros				
37	13	IIr	eP	23 15 45				2700	Probably more than 1 shock.
			iPRl	16 30					
			iS	20 06					
			L	21 34					
			Mnl	22 15		1.8			
			Mel	23 55			0.6		
			Mn2)	30 00		3.5			
			Me2)				0.9		
	14		F	00 02 00					Tremor on May 2 17^h11^m to 17^h 23m
38	22	IIIu	iP	22 44 51				9000	Preceded by micr
			iS	55 05					
			iSR2	23 01 11					
			i	03 28					
			i(SR3)	06 00					
			L	09 50					
			Mel	12 50			1.9		
			Mnl	15 55		8.5			
			Mn2	20 12	23.6	14.5			
			Mn3	22 12	20 .3	17.6			
			Mn4	23 22	20.0	11.9			
			Mn5	25 50	18.1	13.0			
			Me2	26 40			4.5		
			Mn3	27 45			5.0		
	23		F	1 25 ?	in micros				
39	23	I	i	2?2 16 29					micros present
			L	17 27					
			Mn	18 50		1.0			

Constants. Milne-Shaw Period 12.0 Secs. Damping ratio 20: 1.
Milne. Period. 2nd & 3rd, 15.9 secs., 11th & 13th, 15.8 secs,
22nd & 23rd, 15.9 sec. Sensibility 2nd-13th, .52;
22nd & 23rd, .49 .

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

JUNE 1927

Bulletin No.6

No	Date June	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N.-S	A_N	A_E	△ in kms.	Remarks
40	3	IIIr	iP	7 17 59					
			iPR1	18 33					
			iS	22 50					
			iSR1	24 04					
			iSR2	24 28					
			iL	25 10					
			Mn1	27 05		45.5			
			Me1				16.0		Ae's approx.
			Mn2	28 00		71.5			
			Me2				16.0		
			Me3	29 20			16.0		
			Mn3	31 30		44.5			
			Me4	30 40			16.0		
			Mn4	33 25	15.0	79.8			
			Me5				16.0		
			Mn5	33 40		33.7			
			Me6				15.5		
			F	8 56					
41	6	Ir	eP	18 34 16?				3600	Micros present
			S	39 34					
			L	42 28					
			Mn	44 00		0.8			
			Me1	45 00			0.7		
			Me2	49 10			0.8		
			F	in micros					
42	11	Ir	eP	2 39 05				3800	
			eS	44 40					
			eL	47 50					
			Me1	53 25			0.8		
			Mn	54 40		1.3			
			Me2	55 45			0.9		
			F	3 38?	in micros				
43	14	IIr	iP	17 20 36				1750	
			iS	23 35					
			L	24 00					
			Me1	24 25			8.8		
			Mn1	24 55	9.0	13.8			
			Me2	25 22			6.2		
			Mn2	25 51	9.0	13.3			
			Mn3	2M6 55	9.0	11.2			
			F	18 45					

Constants.

Milne-Shaw Period 12.0 secs. Damping ratio 20 : 1
Milne Period 3rd,15.6 secs; 6th-14th 15.8 secs.
Sensibility- 3rd & 6th, .55; 11th-14th, .58.

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

JULY 1927 Bulletin. No.7

No.	Date Jul.	Char.	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S	A_N	A_E	Δ in kms.	Remarks
44	3	I	eP	10 50 00?					
			eS	56 18					
			L	57 36					
			Mn	59 30		1.1			
			Me	11 05 20			0.6		
			F	11 22					
45	14	Ir	eP	23 23 15				2700?	
			iS	28 13					
			L	29 54					
			Mn	31 30		1.4			
			Me1	33 30			0.7		
			Me2	34 50			1.2		
			F	in micros					
46	18	Ir	eP	11 27 05?				3400	
			iS	32 10					
			L	34 44					
			Mn1	38 55		2.2			
			Mn2	39 35		2.3			
			Me1	39 40			0.6		
			Me2	44 15			1.2		
			F	12 24?					in micros
47	28	I	S	4 26 22					Phases uncertain owing to micros. Tremor on 28th, $17^h 12^m$ - $17^h 23^m$.
			L	28 47					
			Mn	30 03		1.3			
			Me	30 15			0.4		

Constants. Milne-Shaw Period 12.0 secs. Damping ratio 20 : 1.

Milne. Period 16.0 secs. Sensibility 3rd & 14th, .52; 18th & 28th, .55.

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

AUGUST 1927 Bulletin No. 8

No	Date Aug	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A_N	A_E	Δ in kms.	Remarks.
48	4	I	iP	15 55 36?					phases masked by micros.
			iS	58 55					
			i(L)	59 29					
			Mn	16 00 43		2.6			Mn very definite
			Me	01 00			0.3		
49	5	Iu	P	21 24 18				8000	Seconds uncertain in times of S. & L. as some minute breaks missed on record.
			iS	33 37					
			iSR2	41 56					
			L	46 05					
			Me	48 30			0.8		
			Mn	50 50		1.9			
			F	22 32?					
50	8	Ir	iPR?	18 49 19				3200?	
			S	53 32					
			L	55 34					
			Mn	56 50		2.2			
			Me	57 50?			0.2		
			F	in micros					
51	10	IIIr	iP	11 43 00					Tremor on Aug 10, 2h 40m mostly lost in changing paper.
			PR1	44 02					
			iS	48 21					
			SR1	50 10					
			L	51 30					
			Me1	53 35			4.2		
			Mn1	56 55		11.5			
			Me2				?		against stop
			Mn2	59 20	12.0	27.8			
			Me3				15.5		
			Me4	12 00 38			14.4		
			Mn3	00 59	12.0	16.8			
			Mn4	02 15	15.0	18.8			
			F	13 43					
52	18	Iu	eP	19 46 11?					difficult record: micros strong
			eL	20 02 30?					
			Me1	03 00			0.6		
			Me2	06 00			0.6		
			Mn1	08 20		1.5			
			Me3	08 30			0.6		
			Mn2	10 50		1.8			
53	21	I	eL	00 56 25?					light burnt out in E-W instrument
			Mn	01 02 20		1.0			
			F	1 55					
54	22	Ir	iP	18 19 00				2200	Times approx. no time marks on record.
			eS	22 29					
			eL	23 44					
			Mn	25 05		1.2			
			Me				0.4		

Constants. Milne-Shaw. Period 11.6 secs. Damping ration 20 : 1.
Milne. Period 4 & 5th, 15.9 secs: 8th & 10th, 15.8 secs: 18th to 22nd, 16.1 secs.
Sensibility- 4th-10th, .55 : 18th-22nd, .52 .

SEISMOGRAPH REGISTER

ADELAIDE OBSERVATORY

SEPTEMBER 1927 Bulletin No.9

No	Date Sep.	Chat.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A_N	A_E	△ in kms.	Remarks
55	4	I	e	19 59 40					Very quick vibrations, phases masked by micros.
			Mn	20 03 52		0.8			
			Me				0.4		
			F	20 16					
56	5	I	e	1 01 42					
			eL	08 25					
			Mn	09 33		1.0			
			Me	16 50			0.4		
			F	in micros					
57	7	IIr	iP	20 01 51				2400	
			iS	06 32					
			~~MEX~~						
			iL	07 09					
			Mel	07 35			2.6		
			Mn1	07 55		4.2			
			Mn2	08 28	9.5	4.5			
			Me2	09 20			1.4		
			Mn3	10 45	9.0	4.6			
			F	21 10?					
58	8	I	e(S)	17 21 57					
			e(L)	26 12					
			Mn	31 35		1.2			
			Me	34 35			0.6		
			F	17 49					
59	8	I	e	23 36 00					
			eS	38 50					
			eL	~~XXXXX~~40 44					
			Mn	45 30		0.8			
			Me	48 35			0.2		
60	11	Iu	eP	22 41 46				13000	
			PR1	46 36					
			eS	54 45					
			eL	23 15 30?					
			Mn	28 10		1.2			
			Mel	28 30			0.3		
			Me2	32 30			0.5		
	12		F	0 20					
61	13	Ir	eP	10 32 18				3200	light out N-S instrument
			eS	37 18					
			L	39 00					
			Mel	35 25			0.4		
			Me2	39 10			0.5		
62	17	Ir	eP	0 56 01					P & F in micros
			S	1 00 12					
			SR1	01 35					
			L	02 15					
			Mel	04 20			2.0		
			Mn1	05 40		3.7			
			Me2	05 50			2.0		
			Mn2	08 05		2.3			

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OCTOBER 1927 — Bulletin No.10

No.	Date	Char.	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S	A_N	A_E	Δ in kms.	Remarks
	Oct								
65	1	I	S	0 02 15					
			L	06 40					
			Mn	09 10		0.9			
			Me	12 50			0.9		Tremor Oct.10, $23^h\ 35^m$ - 12^h. Max approx $23^h\ 44^m\ 15^s$
66	13	I	e	4 28 30					Tremor Oct.11,appr. $17^h\ 28^m$ - $17^h\ 45m$
			eL	38 42					
			Mn	43 53		1.0			
			Me	43 10			0.6		
			F	5 01					
67	19	Ir	eP	22 02 57				2100	Tremor Oct.16, $12^h\ 43^m$ - 13h. Air tremors strong Oct.16,$14^h\ 30^m$ - $21^h\ 35^m$
			iS	06 25					
			L	07 34					
			Mn	08 25		2.0			
			Me	12 30			0.8		
			F	23 00? in micros					
68	24	IIu	eP	18 13 37				9800	Difficult record Prob.more than one.
			eS	31 00					
			i	31 25					
			L	47 48					
			Mn1	50 35		3.5			
			Mn2	54 05	19.0	3.7			
			Me1	54 10			1.2		
			Me2	57 20			2.7		
			F	18 36?					micros present
69	25	Ir	eP	15 44 40				1600	
			eS	47 14					
			L	47 46					
			Mn	48 14		0.7			
70	31	Ir	eP	17 47 28				3300	
			iS	52 28					
			L	55 10					
			Me1	59 05			0.8		
			Mn	18 01 25	13.5	1.9			
			Me2	18 01 25			0.9		
			F	18 27					

Constants — Milne Period 16.0 Sensitivity, 1st,.58;13th-18th,.48
24th-31st .54
Milne-Shaw Period 12.0 Damping ratio, 20:1

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ADELAIDE OBSERVATORY

NOVEMBER 1927 Bulletin No.11

No.	Date Nov.	Char	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S	A_N	A_E	△ in kms.	Remarks
71	2	Ir	eP	21 30 36				3300	Tremor Nov.1- $21^h\ 04^m$-$21^h\ 27^m$ Air Tremors strong Nov.1 $12^h\ 20^m$ - Nov.2 $2^h\ 45^m$
			S	26 39					
			eL	28 05					
			Mn	30 30		0.8			
			Me	33 40			0.3		
72	4	Iu	eP	14 08 43?					F in micros
			eS	20 37					
			eL	45 10					
			Mn1	52 12	20.0	1.8			
			Me1	55 25			0.4		
			Mn2	59 08	17.8	1.4			
			Me2	15 02 40			0.6		
			Mn3	05 20	17.1	1.5			
			Me3	08 35			0.5		
			Me4	13 40			0.6		
			Me5	20 20			0.9		
73	6	Ir	iP	15 40 18				3700	
			PR1	41 20					
			iS	45 46					
			iSR2	48 06					
			iL	48 39					
			Mn	50 40		2.8			
			Me1	50 40			0.7		
			Me2	53 10			0.8		
74	7	Ir	iS	0 16 05					Micros precede
			SR	19 39					
			L	21 18?					
			Mn	22 40		1.0			
			Me	30 10			0.6		
75	8	Iy	eP	3 21 05				7400?	
			eS	29 42					
			L	41 00					
			Mn	44 25		1.1			
			Me1	51 15			0.7		
			Me2	54 20			0.7		
			F	4 35?					
76	9	Ir	eP	01 11 40				3100	
			eS	16 20					
			L	18 34					
			Mn1	24 25		1.3			
			Me1	23 40			0.6		
			Mn2	25 30		2.5			
			Me2	26 10			0.8		
77	10	Ir	eP	3 14 28				3150	
			iS	19 15					
			L	21 30					
			Mn	22 12		2.4			
			Me	24 25			0.9		
			F	3 40? in micros					

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No.	Date Nov.	Char.	Phase	Time (Greenh) H. M. S.	Recorded period of Waves N-S	A_N	A_E	△ in kms.	Remarks
78	14	Iu	eP	7 33 00?				10500	Air tremors strong Nov.11th & 12th
			iS	44 20					
			L	8 03 25					
			Mn	12 00		0.9			
			Me	20 00			0.2		
			F	9 11					
79	14	I	iS	15 27 03					
			Mn	54 50		0.7			
			F	16 10					
80	15	I	e(S)	6 13 35					
			L	15 12					
			Mn	16 55		1.6			
			Me	17 35			0.3		
			F	6 32 in micros					
81	16	IIr	iP	21 18 05				4550	
			iPR2	20 06					
			iS	24 24					
			iSR2	27 45					
			L	29 00					
			Me1	32 50			2.3		
			Mn1	37 45		10.7			
			Me2	38 25			2.8		
			Me3	41 15			1.9		
			Mn2	41 55		4.7			
			Me4	45 00			2.3		
			F	22 46					
82	17	I	eP	13 58 32					
			iS	14 03 41					
			iL	06 00					Micros very strong, phases difficult to distinguish
			Mn	07 10		1.7			
			Me	07 10			0.7		
83	17	I	Mn	14 55 50		1.2			
			Me	56 55			0.8		
84	19	Ir	eP	7 43 05				4700	
			eS	49 31					
			eL	54 30					
			Mn	56 10		0.6			
			Me	56 45			0.5		
			F	8 25					

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No.	Date Nov.	Char.	Phase	Time (Grrem^h) H. M. S.	Recorded period of Waves N-S	A_N	A_E	△ in kms.	Remarks
85	21	IIm	eP	23 25 52?				9500	Also tremor of small amplitude Nov.21 18^h 22m. 19^h 27^m
			iS	36 22					
			L	52 40					
	22		Mn1	0 01 40		1.5			
			Mn2	03 25	18.6	1.8			
			Mn3	06 10	16.5	1.7			
			Me1	07 05		XXX	1.7		
			Mn4	09 35		1.7			
			Me2	11 10			1.3		
			Me3	14 40			1.7		
			F	1 50					
86	28	I	e(S)	10 34 18					P in micros
			eL	37 58					
			Mn	40 50		0.8			
			Me	45 35			0.4		

Constants Milne-Shaw Period 11.5 seconds. Damping ratio 20 : 1

Milne. Period 16.0 seconds. Sensibility .49

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DECEMBER 1927 Bulletin No. 12

No.	Date Dec	Char	Phase	Time (Green^h) H. M. S.	Recorded period of Waves N-S	A_N	A_E	Δ in kms.	Remarks
87	1	Ir	eP	4 44 00				4100	E.Q's 87 & 88-
			S	49 58					Times uncertain
			L	53 48					no minute
			Mn	5 01 20	22.0	2.8			breaks.
			Me	02 25			1.2		Also tremors
88	11	Ir	iP	17 33 14				3700?	from 15^h 46^m
			iPR	34 26					17^h 31^m on 11th
			iS	38 47					with max. at 16^h
			L	41 25					
			Mn	46 00		1.4			
89	12	I	e	19 05 35					Tremor Dec.5th
			e(L)	11 07					Max 18^h 10^m appro
			Mn	14 40		1.2			no minute
			Me	18 40			1.0		breaks
			F	19 43					
90	12	Ir	eP	16 18 29				3900	
			eS	24 09					
			L	28 00					
			Me1	31 30			0.7		
			Mn	32 55		2.0			
			Me2	36 30			0.8		
			F	in micros					
91	20	Ir	eP	8 05 36?				2700	
			eS	09.59					
			L	11 20					
			Mn	13 50		1.3			
			Me	16 30			0.4		
			F	8 36					
92	21	I	L	4 45 55					
			Mn	53 00		0.6			
			Me	53 20			0.4		
93	22	Ir	iP	14 02 18				2100?	
			S	05 36?					
			L	06 35?					
			Mn	08 55	13.3	2.5			
			Me	08 50			1.2		
			F	14 37					

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DECEMBER 1927 Continued. Bulletin No. 12

No.	Date Dec.	Char.	Phase	Time (Green^{h}) H. M. S.	Recorded period of Waves N-S	A_N	A_E	Δ in kms.	Remarks
94	28	Iu	iP	18 33 37				9300	
			iS	44 02					
			i(SR1)	51 05					
			eSR2	54 00					
			iL	59 48					
			Mn1	19 10 04		1.9			
			Me	11 35			0.8		
			Mn2	15 04	20.6	2.4			
			F	20 21					
95	31	IIr	iP	23 17 14				1800	E.W.drum jammed at 21^{h} 6^{m} on 31st.
			iS	20 22					
			iL	20 46					
			Mn1	22 05	8.0	10.7			
			Mn2	23 25	7.7	7.1			
			Mn3	24 15	7.9	7.4			
			F	24 22? in micros					

Constants Milne-Shaw Period- 1st-12th,11.0 ;15th-31st,12.1 secs.
Damping ratio 20 : 1

Milne- Period 1st,15.9; 11th-15th,15.5 ; 20th-31st,15.7

Sensibility. 1st-15th,.53 ; 20th-31st, .57.