Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

	V	T_o	s:1	$\frac{r}{T_o^2}$
A (1)	222	7.6	3.6	0.019
A (3)	82	11.8	7.4	0.015
A (1)	226	8.6	2.4	0.015
A (3)	68	13.1	3.3	0.024
A (2)	93	4.9	4.1	0.12

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
1	Jan. 1	iP_{NEZ}	13 27 31	3	-0.5	-1.8	+0.4	3420	S.W.Condensation.
		i_E	28 29	4		-2.0		(30°8)	Deep focus?
		i_Z	28 31	3			-1.6		
		i_{NE}	29 11	4	+1.6	-4.5			
		i_E	30 05	5		+3.5			
		i_E	30 42	5		-3.7			
		iS_{NE}	32 42	5	+8.6	-3.0			
		i_{NE}	34 35	12	+3.5	-2.8			
		i_{NE}	35 39	9	-8.0	-3.8			
		i_N	37 22	7	+5.9				
		i_E	37 24	7		-6.8			
		MN	39 26	10	5.5				
		F	15 10						
2	" 3	e_{NE}	02 13 22						
		i_{NE}	13 26	5	0.7	0.9			
		i_{NE}	13 38	5	0.6	1.0			
		eL_E	32.3	23					
		ME	42 56	18		0.2			
		MN	44 31	20	0.1				
		F	03 15						
3	" 4	e	00 31.5						Small and indef-
		M	39 22	10	0.2				inite.
		F	00 45						
4	" 4	e_N	15 46.3						
		eL	54.5	25					
		ME	16 01 36	25		0.2			
		F	16 30						
5	" 4	e_N	19 05.8						
		eL_E	11.2	20					
		MN	14 30	12	0.2				
		ME	15 28	12		0.2			
		F	19 40						
6	" 5	i_{NE}	10 22 55	4	0.2	+0.6			
		eL	33.6	23					
		MN	37 42	17	0.2				
		ME	39 17	20		0.3			
		F	10 50						
7	" 14	e	02 22.6						A few small waves
									obscured by micro-
									seisms.

(continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
8	1935 Jan. 17	iP_{NE}	02 13 00	3	+2.1	+3.5		2345 (21°1)	N.E.Dilatation.
		iP_Z	13 01	2			-0.4		
		i_N	13 09	3	+4.2				Deep focus?
		m_Z	13 09	2			2.7		
		i_{NE}	13 20	4	+5.1	+9.9			
		iS_N	16 53	5?	-11.3				
		i_E	16 54	4		+5.5			
		iS_E	16 57	4		-19.7			
		i_N	16 58	5	+28.0				
		i_N	17 12	8	+25.4				
		i_E	17 13	5		+25.0			
		i_E	17 28	5		+25.8			
		$e(L)_E$	18.0	28					
		ME_1	21 56	12		4.3			
		ME_2	24 54	10		4.9			
		F	03 40						
9	" 18	$e(P)_E$	11 08 16	4		0.6		2580?	
		eS_E	12 38	6		1.0			
		$e(SR_1)_N$	13 38	7	0.5				
		eL_N	14.9	19					
		MN	17 22	15	1.2				
		ME	17 33	15		0.5			
		F	LL 40						
10	" 22	e	07 48.2						
		eL	55.8	15					
		MN	58 20	13					
		F	08 10						
11	" 22	eP_N	15 03 25	3	0.5			3480 (31°3)	
		iS_N	08 40	5	1.4				Long waves absent
		ME	14 55	6		11.5			Short periods
		MZ	15 19	4			0.6		throughout.
		MN	15 24	6	6.9				
		F	16 20						
12	" 23	e?	07 20.1						Obscured by micro-
		e	37.5						seisms.
		eN	47 46	10					
		eE	47 50	10					
		m_E	48 20	18		1.2			
		eL	54.1	32					
		MN	08 10 44	19	0.7				
		ME	12 28	23		0.9			
		F	10 10						
13	" 26	e	11 08.8						
		e(L)	10.2	13?					
		ME	12.0	12		0.3			
		F	11 20						
14	" 27	e	16 03.3						
		i_{NE}	07 10	6	-0.6	+2.0			m s
		i_{NE}	07 16	6	+1.1	-4.3			After 07 16 phases
		eL	08.7	18					very small and
		F	16 25						indefinite.
15	" 31	e(P)	17 50 11	3				3660?	
		$e(PR_1)$	51 12	4					
		PR_2?	51 37	7	0.6	0.5			
		iS_{NE}	55 37	7	+1.6	-1.6			
		m_{NE}	55 56	9	2.5	2.3			
		eL_E	59.0	17					
		L_N	59 44	15	1.3				
		ME	18 02 19	13		1.3			
		MN	02 47	12	1.9				
		F	19 00						

WM. O'LEARY, S.J.
Director.
1935, Feb. 2nd.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε:1	$\frac{r}{T_o^2}$
A^N	(1	201	8.1	3.5	0.017
	(3	82	12.3	5.9	0.009
A^E	(1	221	8.8	3.7	0.012
	(3	69	13.4	4.1	0.019
A^Z	(2	93	5.0	3.1	0.100

1935, Feb.15.

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
16	Feb. 4	e_E	17 36.9	?					
		e_N	39.6	7	0.4				
		eL	42.2	19					
		ME	43 32	17		0.8			
		MN	45 13	12	0.4				
		F	18 30						
17	" 8	e?	07 29.6						
		e_{NE}	30.4	3					Phases very small and indefinite.
		e_{NE}	38.3	8					
		F	07 45						
18	" 8	e?	18 41.6						
		e	45.8	4	0.3				
		eL	48.3	17					
		MN	49 14	13	0.2				
		F	19 05						
19	" 20	e	18 28.3						Small waves with short periods, no definite phases.
		F	18 40						
20	" 22	e_{NEZ}	17 19 14	?					
		e_{NE}	29 53	6	0.5	0.5			
		eL_E	42.2	37					
		MN	49 55	13	0.9				
		ME	52 00	15		2.0			
		F	20 15						
21	" 23	e_N	03 39 56	3	0.4				
		eL	44.5	11					
		MN	46 22	10	0.9				
		F	04 15						
22	" 23	eP_N	12 39 15	2	0.3			2645	
		iS_N	43 33	4	-0.6			(23°8)	
		eL_N	44.7	23?					
		ME	46 34	10		0.3			
		MN	46 50	10	0.3				
		F	13 15						
23	" 24	e_{NE}	11 10.2	5					
		eL_N	16.2	14					
		eL_E	18.4	15					
		MN	18 36	12	0.7				
		ME	20 37	14		0.5			
		F	12 00						
24	" 27	e?	09 18.5						
		iN	23 37	3	0.5				
		eL	33.7	28?					
		MN	37 58	13	0.2				
		ME	38 08	13		0.3			
		F	09 55						

WM. O'LEARY, S.J.
1935, March 13.

Riverview College Observatory.

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε:1	$\frac{r}{T_o^2}$
A^N	1	201	8.2	3.6	0.018
	3	77	12.3	5.9	0.009
A^E	1	217	8.9	3.5	0.015
	3	74	13.4	3.3	0.018
A^Z	2	87	5.0	3.3	0.11

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
	March 5	e?	09 29.7						
25		eS	34 13	3					
		eL	36.3	13					
		ME	37 59	15		0.3			
		MN	38 36	13	0.7				
		F	10 05						
26	" 11	i_N	15 06 27	8	1.2				Obscured by very heavy microseisms.
		m_E	06 32	8		1.7			
		MN	17 17	8	1.2				
		F	15 25						
27	" 12	eL	14 03.9	20					A few long waves masked by micros.
28	" 13	$eP?_N$	18 42 43	?				3310?	
		iS_{NE}	47 47	5	+1.5	-2.3		(29?8?)	
		i_E	49 55	6		-2.1			
		eL	51.3	17					
		ME	54 39	10		0.7			
		F	19 25						
29	" 14	e_N	11 45.2						Heavy microseisms.
		eL	48.4	18					
		MN	53 22	13	0.3				
		ME	53 44	12		0.6			
		F	12 15						
30	" 14	$eP?_E$	13 45.3	4				2580?	" "
		eS_E	49 22	7		1.4			
		eS_N	49 24	7	0.8				
		eL	51.4	20					
		MN	53 17	13	0.8				
		ME	53 44	13		0.5			
		F	14 20						
31	" 14	e_N	15 43.3	5					" "
		eL	46.4	20					
		MN	49 34	14	1.4				
		ME	51 17	15		1.6			
		F	16 30						
32	" 15	e_E	11 19.3	5					Microseisms.
		eL	24.4	18					
		ME	27 17	12		0.9			
		MN	28 06	13	0.3				
		F	11 50						

(Continued on next sheet)

1935, March.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1935								
33	March 16	e	08 05 57						
		ME	11 09	8		0.6			Small and indef-
		MN	11 21	8	0.7				inite.
		F	08 25						
34	" 20	ePNEZ	23 03 03	3	0.4	0.4		3045	
		PR_1N	03 41	6	1.2			(27°4)	
		iSN	07 50	7	+4.1				
		mE	08 07	8		6.6			
		eLE	10.4	20					
		ME	12 58	10		8.7			
		MN	13 31	12	7.1				
		F	01 00						
35	" 27	iE	14 27 46	4		-0.5			
		iNEZ	29 10	4	-0.7	-1.0	-0.2		
		mE	29 16	5		1.9			
		iN	29 37	5	-1.1				
		iNE	32 11	5	+1.0	-2.7			
		mNE	34 52	7	0.6	0.7			
		F	15 00						
36	" 29	iPEZ	12 30 02	3		-0.6	+0,1	3365	
		iPR_1E	30 40	5		-2.8		(30°3)	
		iS_{NE}	35 10	6	+1.6	+2.7			
		iSR_1N	36 14	8	+3.8				
		L	37 50	17					
		MZ	40 28	17			0.1		
		MN	41 44	12	8.4				
		ME	42 49	13		7.0			
		F	14 40						
37	" 30	eE	02 15.1						
		eL	21.6	17					
		MN	24 29	13	0.3				
		ME	25 26	13		0.2			
		F	03 10						
38	" 30	iN	16 43 35	4	-0.3				
		iE	48 44	4		+0.5			
		mN	48 47	7	0.4				
		F	17 00						
39	" 30	e	21 40.3	5		0.4			
		eL	58.0	23					
		MN	22 01.6	20	0.2				
		F	22 20						
40	" 31	eNE	22 58.3						
		eN	23 01.9						
		eL	03.3	22					
		ME	05 57	15		0.2			
		MN	06 44	12	0.2				
		F	23 30						

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1935, April 4th.

WM. O'LEARY, S.J.
Director.

1935, April.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε:1	$\frac{r}{T_o^2}$
A^N	(1	211	8.0	3.4	0.019
	(3	86	11.9	5.1	0.009
A^E	(1	223	8.6	4.0	0.013
	(3	73	13.0	3.2	0.018
A^Z	(2	90	4.9	3.6	0.060

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
41	April 1	e_E	02 28.4	4					
		e_N	30.5	7					
		eL	32.6	15					
		M_N	35 20	12	0.5				
		M_E	36 30	16		0.5			F 03 40
42	" 1	e	15 46.4	3					
		eL	54.9	17					F 16 15
43	" 2	e_E	16 29 10	2					
		eL	36.9	17					
		M_N	39 04	14	0.2				F 17 00
44	" 3	e_N	16 46.6	4					
		M_E	57 04	10		0.2			F 17 05
45	" 3	$e?_E$	20 48.8						
		e_E	55.4	4					Preliminaries ob scured by micro- seisms.
		eL	21 01.4	18					
		M_N	06 25	11	0.7				
		M_E	07 25	12		0.5			F 22 00
46	" 4	e_N	09 54.5						
		e_N	59.6	11					Obscured by
		eL_E	10 02.0	18					microseisms.
		M_N	03 00	12	0.4				
		M_E	03 32	15		0.3			F 11 05
47	" 5	e_N	03 03.1						
		e_N	08.6	12					Obscured by
		eL_E	10.4	27					microseisms.
		M_E	12 06	14		0.6			
		M_N	13 28	13	0.8				F 13 35
48	" 8	e_N	11 58.0						Very small.
		M_{NE}	12 01.1	8	0.3	0.2			F 12 10
49	" 12	eP_Z	01 34 20	1			0.1	1080	
		eS_Z	36 19	2			0.3	(9?7)	On N-S and E-W
		i_{NEZ}	36 42	2	+6.5	+8.0	+0.8		Comp. S in min-
		i_{NZ}	36 52	2	+12.4		+2.0		ute mark.
		m_N	36 55	2	12.4				
		i_Z	37 04	2			+3.6		
		i_{NE}	37 08	2	-13.2	+21.0			Felt in Queens-
		m_Z	37 09	3			5.1		land.
		i_E	37 12	2		+18.7			
		L_Z	37 33	5					
		i_N	37 42	4	-13.2				
		iM_E	37 51	4		-15.3			
		MZ_1	37 52	4			3.5		
		ME_1	37 59	6		21.8			
		i_N	38 02	4	+26.0				
		M_N	38 06	5	19.4				
		ME_2	38 16	5		27.54			F 01 55
		MZ_2	38 24	3			4.9		

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERV

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
50	April 16	e	20 51.3						
		eL	56.2	14					
		ME	58 15	9		0.3			
		F	21 10						
51	" 19	e	15 45.1						
		e	57.1						
		e_N	16 04 58	10					
		eL	21.5	27					Long waves have periods ranging from 27s, to 60s.
		ME_1	38 16	25		1.1			
		MN_1	44 22	25	0.8				
		MZ	46 25	20			0.1		
		ME_2	46 41	22		1.9			
		MN_2	50 32	23	1.3				
		F	18 40						
52	" 20	e	06 24.4						
		e(L)	32.7	16?					Shallow long waves
		ME	34 09	16		0.1			
		MN	35 34	14	0.2				
		F	07 00						
53	" 20	e	09 41.5						
		m	44 11	4	0.3	0.4			Very small and indefinite.
		F	09 55						
54	" 20	e	19 53.6						
		eL	57.3	15					
		MN	20 00 31	12	0.1				
		ME	01 00	12		0.1			
		F	20 20						
55	" 20	eP_N	22 13 02	3	0.5			6665	
		eS_{NE}	21 21	6	0.5	0.6		(60°0)	
		eL	31.3	22					
		ME	38 28	22		0.5			
		MN	38 53	20	0.5				
		F	23 50						
56	" 21	e	07 40.9	7					
		i_N	44 16	6	±1.5				
		e_N	47 55	9					
		eL	50.0	23					
		MN	53 03	15	0.3				
		ME	54 54	18		0.2			
		F	08 35						
57	" 21	e	17 19.8	3					
		e(L)	22.1	?					
		MN	23 21	13	0.1				
		F	17 35						
58	" 23	e	17 25.6	5					
		eL	31.4	13					
		MN	33 35	8	0.2				
		ME	33 44	7		0.3			
		F	17 45						
59	" 24	e	16 26.7	3					
		eL	28.7	19					
		MN	32 44	13	0.2				
		ME	35 34	18		0.3			
		F	16 50						
60	" 29	e	11 51.5						
		e	55.3						
		ME	57 16	8		0.9			
		MN	47 30	7	0.9				
		F	12 10						

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1935, May 3.

WM. O'LEARY, S.J.
Director.

Riverview College Obs.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

	V	T_o	ε : 1	$\frac{r}{T_o^2}$
A(1)	211	7.9	3.4	0.021
(3)	93	11.8	2.9	0.009
A(1)	225	8.6	3.4	0.015
(3)	86	12.5	2.9	0.021
A(2)	92	4.7	3.7	0.081

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm.	mm.	mm.	km.	
61	May 3	e	01 11.8	3					Small and indef-
		m	13 03	6	0.5	0.5			inite.
		F	01 25						
62	" 7	$e?_E$	06 03.3						
		e_N	05.5	5					
		e_{NE}	10.4	9	0.4	0.4			
		e_N	13 46	7	0.6				
		e_E	13 50	7		0.8			
		e(L)	18.7	21?					
		eL	22.6	25					
		MNE	25.1	16	0.3	0.4			
		F	06 55						
63	" 12	e_{NE}	19 51.6	4					
		e_N	56.2	19					
		eL	20 00.9	22					
		ME_1	02 12	19		0.6			
		MN	02 12	19	0.6				
		ME_2	04 04	13		1.2			
		F	20 45						
64	" 13	e_E	20 14.3	7					
		e_N	14.4	7					
		e(L)	25.0	18					
		eL	29 29	23					
		MN	34 48	20	0.2				
		ME	41 00	17		0.1			
		F	21 00						
65	" 13	e	23 56.3						
		eL	59.1	16					
		MN	00 00 53	14	0.7				
		ME	01 56	14		0.6			
		F	00 40						
66	" 14	eP_{NZ}	23 35 47	1	0.1		0.1	9065	Deep focus?
		mN	35 55	3	0.7			(81°6)	
		$e(PR_1)_N$	39 10	5	0.6				
		mN	39 17	5	1.3				
		iS_N	46 01	5	-4.2				
		iS_E	46 04	5		+2.6			
		iN	46 18	5	+4.8				
		mE	46 19	7		4.5			
		$SR_1?_E$	52 06	8?		0.5			
		eL	00 06.4	24					
		MN_1	13 45	16	0.3				
		ME	14 42	17		0.3			
		MN_2	19 15	16	0.5				
		F	02 00						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude.			Δ	Remarks.
					A_N	A_E	A_Z		
	1935		h. m. s.	s.	mm	mm	mm	km.	
67	May 16	e(S)	21 00 14	12					
		e(L)	07.4	19?					
		eL	09.3	22					
		MN	12 50	19	0.6				
		ME	13 11	17		0.8			
		F	22 10						
68	" 18	eP_{NEZ}	21 36 30	3	0.2	0.5	0.2	2355	
		i_E	36 39	7		-1.2		(21°2)	
		iS_E	40 23	7		-1.0			
		iS_N	40 25	7	+3.2				
		m_E	40 43	7		3.0			
		eL_E	43.0	16					
		MN	44 45	10	0.3				
		F	22 05						
69	" 20	e_N	05 36.2	6?					
		e_{NE}	39.4	6					
		eL	47.7	25					
		MNE	50 30	17	0.5	0.4			
		F	06 10						
70	" 21	eP_{NZ}	06 57 37	2	0.5		0.1	3065	
		m_{NE}	58 43	4	0.8	0.3		(27°6)	
		eS_E	07 02 23	6		0.8			
		iS_N	02 25	5	+1.6				
		m_N	03 10	9	2.6				
		m_N	04 09	7	3.0				
		i_E	05 33	7		-5.8			
		eL	06.5	30?					
		L_{NE}	08 10	21	4.6	8.3			On N-S long waves with large amp. from 07 08 to 07 10. Also on E-W from 07 08 to 07 09.
		eL_Z	08.4	23					
		ME_1	10 26	12		7.2			
		MN	10 53	12	3.1				
		MZ	11 58	10			0.1		
		ME_2	12 04	11		6.8			
		F	09 10						
71	" 24	eP_{NE}	05 45 51	4	0.5	0.5		5610	
		iS_N	53 09	6?	-2.7			(50°5)	Time marks failed on Vertical.
		iS_E	53 12	6?		+2.5			
		m_{NE}	53 21	20	5.9	2.5			
		m_{NE}	53 41	20	6.8	3.2			
		i_E	56 43	14		+5.2			
		i_N	57 14	12	+8.7				
		i_{NE}	57 35	9	∓8.5	-8.9			
		eL	06 01.8	20					
		ME	03 27	16		11.3			
		MN	07 15	16	7.8				
		F	08 00						
72	" 25	e_{NE}	00 17 18	5	0.3	0.4			
		i_N	24 37	5	+1.2				
		e_N	28 33	12	0.6				
		eL	39.4	30					
		MN	44 32	10					
		F	01 25						
73	" 26	i_N	22 13 09	3	+0.6				
		e_N	20 19	8	1.2				
		e_E	20 25	7		0.9			
		e_E	23 52	8		0.8			
		e_N	24 05	8	1.0				
		eL_E	33.1	?					
		MN	48 21	14	0.5				
		F	23 15						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1935								
74	May 27	e	03 16.6						
		eL	23.3	19					
		ME	27 31	17		1.0			
		MN	28 21	11	1.0				
		F	04 30						
75	" 30	e	21 51.2	6					Earlier phases obscured by heavy microseisms.
		i_{NE}	58 01	5	+0.7	-1.1			
		i_N	58 25	6	-1.2				
		i_E	58 27	8		-1.9			
		eL_N	22 17.4	39					Destructive Quetta Earthquake.
		MZ	30 39	20?			0.05		
		ME_1	30 56	24		2.8			
		MN_1	34 49	21	2.2				
		ME_2	35 18	20		3.1			
		MN_2	37 41	19	2.2				
		ME_3	39 38	18		5.9			
		F	01 10						

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1935, June 6th.

WM. O'LEARY, S.J.
Director.

1935, June.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49' 49" S. λ = 151° 9' 30" E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε:1	$\frac{\varepsilon}{T_o^2}$
A^N	1	211	8.1	3.2	0.015
	3	78	11.0	4.1	0.011
A^E	1	219	8.6	3.4	0.016
	3	73	12.6	5.2	0.021
A^Z	2	100	4.6	3.3	0.066

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1935								
76	June 1	e(P)$_{NE}$	21 05 21	0.3				220?	Small local shock.
		eS$_{NE}$	05 44	0.8					
		i$_{NE}$	05 46	0.4	+0.5	-0.3			
		m$_{NEZ}$	05 47	0.4	0.9	1.1	0.2		
		F	21 08						
77	" 3	e	02 42 09	2?					Small waves, no definite phases.
		F	03 00						
78	" 6	eL$_E$	00 09.7	11					
		MN	16 08	10	0.3				
		F	00 40						
79	" 16	e	06 25 23	6					
		e(S)	29 28	11?					
		eL	33.8	22					
		ME	34 41	18		1.5			
		MN	35 47	13	0.6				
		F	07 00						
80	" 18	e$_{NE}$	10 19 41						
		i	20 03	0.3					Small local shock.
		MZ	20 32	2			0.3		
		F	10 22						
81	" 19	e?$_N$	22 20.3						
		eS$_E$	24 40	6		0.6			
		mNE	25 06	6	0.8	0.7			
		eL	27.6	17					
		MN	28 28	14	0.7				
		ME	30 09	14		0.8			
		F	22 50						
82	" 22	e?	15 55.2						
		e(S)	16 02 22	10					
		eL	10.8	21					
		ME	12 05	17		1.6			
		MN	15 28	16	1.0				
		F	16 55						
83	" 23	e	09 39 08						
		e(S)	41 18	6					
		mE	42 28	8		1.2			No definite phases.
		mN	42 32	8	1.2				
		F	10 00						
84	" 23	e?$_N$	15 17.7						
		iG$_{NE}$	22 23	6	+1.5	-1.0			
		eL	24.6	14					
		ME	25 54	12		0.2			
		MN	29 12	14	0.5				
		F	15 50						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	Az mm	Δ km.	Remarks.
	1935								
85	June 24	iP$_{NEZ}$	23 28 17	4	-4.4	-4.7	+1.7	2365	iP Condensation.
		mNEZ	28 20	4	6.0	6.9	2.6	(21°3)	Azimuth NE.
		iNEZ	28 43	5	+12.8	+17.0	+7.5		
		iNEZ	29 00	5	>35.5	-36.5	+9.2		
		eS$_N$	32 06	8					
		eS$_E$	32 09	8					Deep focus.
		i$_N$	32 28	6	-31.7				
		i$_E$	32 43	6		+22.6			
		i$_{NE}$	33 01	6?	>23.0	>19.5			
		m$_N$	33 09	7	>29.5				
		i$_N$	33 17	6	-24.5				
		m$_{EZ}$	33 19	6		44.2	3.1		
		i$_E$	33 32	6		+37.3			
		i$_N$	33 40	6	-59.3				
		m$_{NE}$	33 55	8	>25	37.6			
		L$_E$	35.0	23?					L and M not very
		ME$_1$	35 59	22		18.7			well marked.
		MN	36 14	12	12.1				
		ME$_2$	39 13	10		14.8			
		F	02 50						
86	" 25	i$_{NE}$	07 32 18	5	+1.0	-1.8			
		eL	35.5	14					Small and indef-
		F	07 45						inite.
87	" 29	eL	07 43.1	20?					
		ME	49 48	15		0.2			
		MN	49 54	15	0.1				
		F	08 20						
88	" 29	eL	18 56.1	14					
		MN	57 43	11	0.2				
		ME	59 37	11?		0.2			
		F	19 10						
89	" 30	e	11 26 30	3					A few very small
		F	11 32						waves.

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1935, July 3rd.

WM. O'LEARY, S.J.
Director.

Riverview College Observatory.

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

ϕ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε : 1	$\frac{r}{T_o^2}$
A^N	(1)	216	7.8	3.6	0.015
	(3)	90	11.8	4.4	0.009
A^E	(1)	224	8.4	3.5	0.015
	(3)	74	12.6	4.0	0.021
A^Z	(2)	59	5.0	4.1	0.040

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
90	July 6	e?	22 01.6						
		i_{NE}	05 03	5	-1.2	-0.9			
		eL	05.5	14					
		MN	07 55	10	0.6				
		F	22 20						
91	" 9	eP_E	13 50 06	0.3				227?	Perhaps earlier.
		iS_{NE}	50 32	1	+1.2	+1.3			Small local shock
		m_N	50 33	0.7	3.3				
		m_{EZ}	50 35	0.7		3.5	0.5		
		m_{NE}	50 41	4?	3.8	3.5	-------	-------	Waves of 1.5s.period superimposed.
		eL_Z	50 45	5					
		m_E	50 55	3		2.5			
		m_Z	50 56	3			0.4		
		MZ	51 06	2			0.3		
		F	13 53						
92	" 9	e	21 25 57						
		MNE	32 34	12	0.6	0.9			
		F	21 45						
93	" 11	e_E	13 16.1						
		e_N	20.1						
		eL	23.1	15					
		ME	25 12	19		0.3			
		MN	26 10	13	0.5				
		F	14 05						
94	" 12	i_{NE}	03 02 22	1	+0.3	+0.5			Small local shock.
		L	02 32	3					
		ME	02 51	2		0.8			
		MZ	02 53	2			0.3		
		F	03 04						
95	" 15	$e(P)_{EZ}$	12 04 08	3					
		iS_N ?	08 19	7	+2.0				
		iS_E	08 20	6		+1.2			
		eL	11.2	15					
		MN	13 16	11	1.8				
		ME	13 33	12		1.0			
		F	13 15						
96	" 15	i_{EZ}	14 18 58	3		-0.7	+0.1		
		i_E	20 31	3		-0.7			
		i_N	23 12	4	-1.0				
		i_E	23 13	4		+0.8			
		e_N	26 10	6					
		m_N	26 25	7	1.2				
		m_E	26 31	6		1.0			
		i_E	28 31	4		2.5			
		i_N	28 32	6	+3.3				
		ME	32 40	9		0.5			
		F	14 50						

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
97	July 17	i_N	11 09 26	5	-1.5				
		i_N	09 35	5	-1.5				
		i_E	09 36	6		-1.0			
		e_N	15 11	15					
		m_N	15 34	15	0.5				
		e_E	21 39	21					Long waves.
		eL_N	33 11	23					
		MN	36 38	20	1.2				
		ME	36 54	16		0.5			
		F	12 20						
98	" 19	e	01 10.3	8?					
		eL	22.5	27					
		MN	27 36	21	0.4				
		ME	28 38	22		0.3			
		F	02 05						
99	" 24	e_E	03 29.6	5					
		i_N	33 14	5	+1.1				
		m_E	33 23	6		0.8			
		F	03 45						
100	" 24	e_E	04 57.4	3					
		i_{NE}	05 00 57	5	+1.5	+2.0			
		F	05 05						
101	" 28	eP_E	04 09 53	0.3				220	Small local shock
		iS_{NEZ}	10 18	0.6	+0.3	+0.3	+0.2		
		MZ	10 51	2			0.1		
		F	04 11						
102	" 29	iP_E	07 44 23	3		+1.2			Deep focus.
		eP_Z	44 24	1			0.2		Azimuth ENE.
		iP_Z	44 25	1			+0.5		
		i_{NEZ}	44 26	3	-1.3	-6.3	+1.0		SW.Condensation.
		m_Z	44 29	3			1.3		
		i_{NE}	45 50	4	+2.5	11.5			
		i_Z	45 51	3			+4.2		
		m_N	46 21	6	5.5				
		i_{EZ}	48 44	4		+43.5	+1.8		
		i_N	48 45	4	-18.2				
		i_E	51 27	9		+21.0			2 remarkable groups of waves.
		i_E	51 36	8		+61.4			
		i_N	51 40	8	-24.2				
		F	09 50						
103	" 30	e	05 57.9	5					Masked by micro-seisms.
		eL	06 05.0	25					
		ME	08 38	17		1.3			
		MN	08 48	12	1.9				
		F	07 00						
104	" 31	eL	20 15.0	14					
		MN	16 14	10	0.2				
		F	20 20						
105	" 31	e	18 56.0						
		eL	58.1	21?					
		MN	19 00 32	12	0.3				
		F	19 10						

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WM. O'LEARY, S.J.
1935, August 7th.

Riverview College Observatory.

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

φ = 33° 49' 49" S. λ = 151° 9' 30" E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε:1	$\frac{r}{T_o^2}$
A^N	1	219	7.6	3.2	0.021
	3	91	11.7	3.3	0.010
A^E	1	224	8.4	3.7	0.014
	3	85	12.4	3.0	0.021
A^Z	2	63	5.0	4.4	0.032

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
106	August 1	e_N	14 15.8	6					
		e_N	23.0	7					
		e_N	26,7	9?					
		eL	33.2	22					
		MN	40 28	12	0.3				
		F	15 05						
107	" 3	e	01 21.2						Preliminaries obscured by micro seisms.
		$i(S)_{NE}$	29 16	6	-3.1	-6.1			
		$SR_1?_N$	33 15	10	1.2				
		eL_N	38.0	45					
		MZ	46 30	25			0.1		
		MN	46 47	17	11.9				
		ME	48 46	20		9.5			
		F	05 00						
108	" 10	e	18 06.8						
		eL	14.3	21?					
		ME	15 31	15		0.4			
		F	18 25						
109	" 17	eP_Z	01 49 25	1½			0.1	2365	Deep focus?
		i_Z	49 33	2			+1.0	(21?3)	
		i_{NEZ}	49 34	3	+5.5	+12.7	-3.4		Dilatation.
		iPR_1E	49 51	4		-33.7			Azimuth ENE.
		m_E	50 05	7		48,0			
		m_N	50 28	6	22.8				
		iS_{NE}	53 17	8	+24.6	-17.3			
		i_E	53 23	8		+53.9			
		m_{NE}	53.9	11	41.8	68±			
		E MN	54.6	25					
		MN	56 49	11	14.7				
		ME	56 51	11		19.2			
		F	05 20						
110	" 21	e_{NEZ}	13 55.7	2	0.1	0.2	0.2		
		e_E	57.2	2		0.6			
		m_E	57.7	6		1.1			
		e_N	14 04.2	8	0.5				
		MN	07.6	12	0.2				
		F	14 20						
111	" 23	e_N	10 24.1	23					
		$e(S)_N$	29 09	14	0.7				
		eL	33.1	23					
		MN	36.9	12	0.4				
		ME	37.3	12		0.5			
		F	11 05						

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
112	Augst.23	e_{EZ}	14 07.2	3		0.2			
		i_N	14 49	8	-1.0				
		i_E	14 52	8		-1.7			
		eL_N	23.3	27					
		MN	27 29	22	0.5				
		ME	28 54	25		0.5			
		F	15 25						
113	" 26	e_N	12 31.8	6					
		eL	35.9	24					
		ME	36 37	14		0.5			
		MN	37 04	12	0.3				
		F	13 00						

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WM.O'LEARY, S.J.
Director.
1935, September 4th.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε : 1	$\frac{r}{T_o^2}$
A^N	1	210	7.7	3.4	0.020
	3	95	11.6	3.8	0.009
A^E	1	226	8.3	3.7	0.019
	3	81	12.9	4.1	0.022
A^Z	2	62	5.0	4.0	0.048

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
114	Sept. 2	e	07 26.6						
		eL	32.0	18					
		MN	34 03	15	0.6				
		ME	34 19	12		0.5			
		F	07 55						
115	" 4	e	01 48.2						
		e_N	56.6	7					
		eL	02 06.6	21					
		ME	14 00	21		0.3			
		MN	14 22	21	0.3				
		F	02 50						
116	" 9	iP_N	06 25.17	4	-0.7			4380	
		ePE_Z	25 17	3?				(29?5)	
		i_{NZ}	26 57	4	-3.0		+0.5		
		mZ	27 04	4			0.6		
		mN	27 05	4	3.0				
		S_{NE}	31 28	7?					
		mE	34 41	10		3.3			
		L	36.4	25					
		MZ	41 48	21			0.3		
		ME	44 22	10		17.0			
		MN	45 10	12	9.5				
		F	08 50						
117	" 11	$e(P)_E$	11 51 13						Preliminaries masked by micro-seisms.
		iS_E	55 48	6		-1.2			
		eL	59.2	20					
		ME	12 02 00	16		2.9			
		MN	02 35	13	1.7				
		F	13 20						
118	" 11	ePZ	14 15 54					8335	
		P_{NE}	16 01	6	0.9			(75?0)	Perhaps earlier in minute mark.
		eS_E	25 36	6		0.6			
		iS_N	25 38	9	-1.7				
		i_N	26 03	7	+3.4				
		PS_{NE}	26 15	7	4.4	3.1			
		m_N	31 05	10	1.1				
		eL_E	36.7	39					
		eL_N	37.4	36					
		MN	42 55	25	2.3				
		MZ	43 01	23			0.2		
		ME	44 19	22		3.9			
		eW_2	16 28.2	24					
		MN	40 19	21	0.1				
		F	17 15						

(Continued on next sheet).

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1935								
119	Sept.15	e_{NZ}	11 21.3	12					
		L_N	25.9	24					
		ME	31 04	19		3.2			
		MZ	31 19	22			0.3		
		MN_1	32 13	19	3.8				
		MN2	40 47	12	3.5				
		F	12 ?? 35						
120	" 15	e(P)	14 21 16	6					
		e(S)	31 19	9					
		e	32 28	14?					
		e	36 35	12					
		e	36 47	12					
		eL	45.6	37					
		MZ	46 51	25			0.1		
		ME	48 11	24		1.5			
		MN	48 36	22	1.2				
		F	16 10						
121	" 19	e	02 33.1						
		eL	36.8	24					
		MN	41 24	24	0.6				
		ME	42 57	18		1.4			
122	" 20	P_{NZ}	01 52 58	4				3480	P in minute mark.
		i_{NE}	53 17	5	+6.8	-2.0		(31?3)	
		i_Z	53 19	5			-1.5		
		i_Z	54 23	5			-2.8		
		i_{NE}	54 24	5	+18.0	-8.0			
		mNE	54 44	5	14.6	6.7			
		iS_E	58 13	7		+17.6			
		i_N	58 19	7	+19.1				
		m_N	58 34	9	32.2				
		m_E	58.39	8		29.5			After 11 58 39 measurements taken from Mainka. Wiechert partially deranged by violence of Max. phases. Mainka pens dislodged several times during Max.
		L_E	02 00.4	45					
		m_N	00 26	13	26.1				
		L_Z	02.3	34					
		ME	03 23	25		>60.5			
		MZ	06.6	16	Max.	begins on	Z.		
		MZ	08 34	15			22.8		
		eW2	04 34.7	21					
		F	Lost in No.124.						
123	" 20	e	04 18.1						Small shock superimposed on C waves of No.122.
		M	25 40	12		4.0			
		F	Lost in No.122.						
124	" 20	P_{NZ}	05 29 25	7?	1.0			3335	
		i_{NE}	30 40	12?	+4.0	-2.5		(30?0)	
		iS_N	34 30	12?	-6.0				
		iS_E	34 32	12?		+5.0			
		i_N	35 16	9	-10.4				
		i_N	35 32	8	+8.4				
		i_E	36 10	8		+9.0			
		i_E	36 30	8		+6.2			
		L_E	39.0	27?					
		iM_N	41 19	15	+46.6				
		MNEZ	42.8	15	>75	>72.5	4.8		
		F	08 45						
125	" 20	e	13 08.7						Very small. No definite phases.
		F	13 25						
126	" 20	e	13 42.0						do. do. do. do
		F	14 00						
127	" 20	e	15 49.1						do. do. do. do
		F	16 10						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
128	Sept. 20	e	20 19.1						Small and indef-
		F	20 35						inite.
129	" 20	e	21 13.2						
		eL	20.2	25					
		ME	23 01	13		7.3			
		MN	24 15	12	4.8				
		F	Lost in No.130						
130	" 20	eL	21 53.3	24					
		MN	55 01	14	2.0				Earlier phases
		ME	56 01	15		2.1			obscured by end
		F	22 30						of No.129.
131	" 23	e_E	09 13.2	3					
		e_N	14.3	6					
		eL_E	19.1	21					
		e_Z	19 36	5					
		L_E	20 41	13		3.7			
		MN	22 23	9	1.4				
		ME	23 19	10		3.0			
		F	Lost in No. 132.						
132	" 23	e_Z	09 24 39						
		$i(S)_N$	29 42	5	-4.6				Preliminaries mas-
		$i(L)_E$	31 38	15?		+10.5			ked by No.131.
		L_E	32 20	35					
		ME	36 52	17		60±			
		MN	39 35	11	43.0				
		MZ	39 49	14			4.8		
		F	12 00						
133	" 23	e	13 10.6						
		eL	14.5	18					
		F	13 25						
134	" 24	e?	04 05.3						
		e	11.1	8					
		eL	14.1	15					
		M	17.2	15	0.3	0.4			
		F	04 30						
135	" 24	e_{NZ}	05 07 24	3					No definite phases
		e_E	14 11	6					May be more than
		m_E	16 14	8		1.3			one shock.
		i_E	17 42	5		+1.7			
		e_Z	17 53	3					
		m_{NE}	18 18	5	2.4	3.3			
		F	06 00						
136	" 24	e_E	07 58.2						
		eL	08 05.1	18					
		MN	06 20	15	0.5				
		ME	06 30	14		0.7			
		F	08 35						
137	" 25	e_Z	10 27.2	?					
		e_{NE}	27 23	7	1.2	0.7			
		e_N	31 07	7	1.0				
		e_E	33 02	7		1.5			
		m_E	33 35	7		2.5			
		i_N	35 06	?	-3.4				
		m_E	35 39	9		3.6			
		L_E	37.3	17					
		m_E	38 38	12		17.7			
		MN	40 10	12	10.0				
		ME	40 51	9		13.8			
		MZ	42 52	15			0.7		
		F	11 45						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
138	Sept. 25	e_{NE}	12 44.4	5					
		eL	48.5	15					
		ME	51 51	9		1.4			
		MN	52 06	9	2.0				
		F	13 40						
139	" 26	e(L)	22 32.4	15					
		MN	39 24	15					
		F	23 15						
140	" 27	e	18 28.2						
		eL	30.6	18					
		ME	34 37	11		0.3			
		MN	37 28	11	0.4				
		F	19 05						

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1935, October 10th.

WM. O'LEARY, S.J.
Director.

No. 10 1935, October.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε : 1	$\frac{r}{T_o^2}$
A^N	1	235	7.7	3.3	0.020
	3	89	11.9	4.9	0.010
A^E	1	223	8.6	3.5	0.020
	3	75	13.2	3.3	0.019
A^Z	2	58	5.1	4.8	0.030

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm.	mm.	mm.	km.	
141	Oct. 2	eP_N	05 44 51	4	0.6			8435	
		iS_E	54 34	7		1.2		(75°9)	
		iS_N	54 37	7	1.3				
		m_{NE}	55 34	7	0.6	0.5			
		eL	06 09.5	30					
		MN	16 26	21	0.3				
		ME	17 35	21		0.2			
		F	06 35						
142	" 2	e	19 45.3						
		eL	57.1	15					
		MN	58 32	12	0.3				
		F	20 10						
143	" 4	eP_{NEZ}	05 09 14	3				2665	Very small.
		eS_{NE}	13 33	4				(24°0)	
		eL	17.6	14?					
		F	Lost in No.144						
144	" 4	i_{NE}	05 29 53	4	+0.8	-1.8			Only outstanding phase.
		F	05 50						
145	" 6	iP_{NEZ}	04 40 51	4	-1.0	-1.7	+0.1	2300	S.W. Condensation.
		m_E	41 36	8		2.5		(20°7)	
		iS_N	44 41	5	-0.7				
		iS_E	44 44	5		-1.8			
		m_{NE}	45 08	7	1.7	2.4			
		eL	46.6	12					
		ME_1	50 12	12		1.2			
		MN_1	50 36	11	4.0				
		ME_2	59 33	12		2.6			
		MN_2	59 50	11	1.7				
		F	05 55						
146	" 10	e_N	12 38.9	5					
		MN	41 52	11	0.3				
		F	12 50						
147	" 11	$S?_{NE}$	22 27.3	7	1.7	1.0			Earlier phases obscured by micros. Time marks failed at 22h 12m.
		$eL?_E$	29.2	33?					
		iL_E	30.2	8?		-4.4			
		iL_E eL_N	31.4	8		-9.6			
		eL_N	32.5	27					
		ME_1	34.1	18		18.0+			
		ME_2	37.1	12		17.5+			
		MN	37.4	12	16.4				
		F	00 10						
148	" 12	e	17 06.6	7					
		eL	17.2	40					
		ME	21.6	18		0.5			
		MN	23.7	20	0.5				
		F	18 15						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1935								
149	Oct. 15	eP	01 32 28	4				2535	
		eSN	36 37	4	0.4			(22°8)	
		iSE	36 39	5		+1.0			
		SR1	37 01	7	0.7	0.5			
		SR2	37 08	8	0.8	0.6			
		eL	39.6	15					
		ME	40 44	10		0.3			
		MN	40 46	12	0.3				
		F	02 05						
150	" 18	e?	00 25.3						
		eNE	33.2	6					
		eL?E	43.0	30?					
		eLE	44.5	30					
		ME	51 27	14		0.3			
		MN	52 38	20	0.3				
		F	02 10						
151	" 18	eE	02 35.7						
		eN	39.2						
		eLE	44.6	18					
		MN	45 29	15	0.4				
		ME	47 35	15		0.3			
		F	03 30						
152	" 18	ePZ	11 13 54					5245	
		iPNZ	13 56	4	-0.9		-0.4	(47°2)	
		ePE	13 56						
		i(PR1)N	15 56	4	+2.0				
		mN	16 11	6	2.3				
		SN	20 53	9	1.3				
		i(SR1)N	24 17	8	-1.5				
		i(SR2)N	24 41	9	+3.5				
		eL	28.5	30					
		MZ	31 19	16			0.3		
		cME	32 40	15		4.7			
		MN	35 22	15	2.8				
		F	13 15						
153	" 18	e	15 15.1	?					
		e	31.2	?					
		eL?	36.2	15?					
		M	38.7	15	0.3				
		F	16 00						
154	" 24	eE	23 58.5						
		eN	00 04.8	9					
		eL	07.2	17					
		MN	08 29	15	0.6				
		ME	10 05	15		1.2			
		F	00 55						
155	" 31	e	23 07.5	3					
		M	14.4	9	0.5				
		F	23 35						

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WM. O'LEARY, S.J.
Director.
1935, Nov.5th.

1935, November.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

	V	T_o	ε : 1	$\frac{r}{T_o^2}$
A^N (1	210	7.8	3.6	0.018
(3	90	11.8	6.5	0.009
A^E (1	229	8.5	3.8	0.016
(3	78	13.0	3.0	0.020
A^Z (2	55	5.2	4.1	0.042

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
156	Nov. 1	e?	16 27.9						
		e	42.9						
		eL	55.7	30					
		MN	17 05 34	17	0.5				
		ME	08 44	18		0.4			
		F	18 00						
157	" 4	e	11 14.2						
		eL	23.0	17					
		MN	24 29	12	0.7				
		ME	25 07	11		1.5			
		F	11 50						
158	" 5	$e(P)_Z$	09 35 11					3355?	
		e_N	35 13						
		eS_N	40 18	9	1.2				
		eL	45.1	15					
		MN	46 30	13	1.0				
		ME	48 14	12		2.4			
		MZ	48 24	10			011		
		F	10 20						
159	" 5	e_E	21 08.4	6					
		e_N	10.5	6					
		i_{NE}	12 30	5	+1.1	+0.6			
		i_{NE}	15 49	5	+0.5	+0.4			
		iE	16 03	8		+1.6			
		eL	25.3	21					No Outstanding M.
		F	21 50						
160	" 7	$e(P)_N$	20 47 45	3				2900?	
		$e(S)_N$	52 21	7					
		eL	53.8	21					
		ME	56 49	9		0.6			
		MN	58 49	9	0.7				
		F	21 20						
161	" 8	e	20 20.5						
		ME	23 34	11		0.7			Obscured by micro-seisms.
		MN	23 46	8	0.5				
		F	20 35						
162	" 11	e	12 37.3						
		eL	39.7	13					
		MN	41 29	12	0.1				
		F	12 50						
163	" 11	e_N	13 19 21						
		e_E	25 15						
		eL	28.3	18					
		ME	31 28	11		2.8			
		MN	32 38	10	0.8				
		F	14 05						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
164	Nov. 12	e_E	21 47,8						
		eL_N	59.3	22					
		M_N	22 03 29	20	0.2				
		M_E	05 18	21		0.2			
		F	22 25						
165	" 14	P_{NZ}	20 02 51	3	0.5		0.4	2835 (23°5)	
		iS_N	07 22	7	-2.6				
		m_N	07 36	21	2.0				2 large waves of long period.
		mN	07 52	21	2.4				
		e_E	08 30	28					Long period wave.
		m_E	09 48	8		3.3			
		eL_N	11.5	24					
		M_Z	12 29	22			0.1		
		M_N	13 49	18	3.4				
		M_E	13 57	15	4	4.5			
		F	21 05						
166	" 17	e_E	07 46.6						
		i_N	52 21	6	-1.2				
		i_N	53 34	7	+1.5				
		eL	54.4	16					
		M_E	56 28	14		0.6			
		M_N	57 21	11	2.4				
		F	08 50						
167	" 19	e_N	06 19.4						
		eL	21.5	16					
		M_N	22 40	11	0.4				
		M_E	25 31	13?		0.3			
		F	06 35						
168	" 22	e	10 50.7						
		M	55 30	13	0.4				Obscured by micro-seisms.
		F	11 05						
169	" 25	eP_E	10 14 27	4		0.3		6735 (60°6)	
		eS_E	22 50	8?					
		iS_N	22 52	5	+1.5				
		eL	35.7	16					
		M_N	40 08	14	1.0				
		M_E	41 11	16		0.5			
		F	11 50						
170	" 29	eL	18 41.7	16					
		M_N	44 23	13	0.4				
		M_E	47 20	13?		0.1			
		F	19 10						
171	" 30	eL	04 49.8	17					Shallow long waves.
		F	05 05						

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1935, December 2nd.

WM. O'LEARY, S.J.
Director.

Riverview College Observatory.

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

Φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

		V	T_o	ε : 1	$\frac{r}{T_o^2}$
A^N	1	211	7.9	3.8	0.024
	3	90	12.1	3.7	0.010
A^E	1	218	8.8	3.6	0.014
	3	67	13.2	3.3	0.019
A^Z	2	59	5.2	4.1	0.029

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
172	Dec. 5	e?Z	17 57.4						
		e(P)E	58 25						
		eS$_N$	18 02 36	8					
		eSE	02 39	8					
		eL	06.0	16					
		ME	08 12	19		1.9			
		MN	09 22	13	1.1				
		F	18 50						
173	" 6	eE	11 48.3						
		eL$_N$	54.9	15					
		F	12 10						
174	" 8	i$_{NE}$	03 08 23	0.3					Very small local shock. Felt at Bowral, N.S.W.
		F	03 08 51						
175	" 8	e$_N$	22 06.0						
		e(L)$_N$	09.7	16					
		eL$_E$	11.3	21					
		MN	12 41	13	0.2				
		ME	13 03	16		0.2			
		F	22 30						
176	" 9	iP$_{NE}$	07 28 31	3	+1.2	-0.5		2535	
		iP$_Z$	28 32	?			-0.4	(22°8)	
		iS$_E$	32 40	6		+2.2			
		SR$_1$E	33 13	16		4.1			
		m$_N$	33 27	10	2.5				
		mE	33 49	13		4.5			
		eL$_E$	34.7	17					
		ME	36 13	9		3.0			
		F	08 40						
177	" 14	e$_N$	01 56.5						
		eL	02 01.0	17					
		MN	11.0	17	0.2				
		F	02 25						
178	" 14	eE	22 21.8						Early phases masked by microseisms.
		eE	32.3	?					
		mE	32 47	16		0.6			
		eE	35.3	19					
		mE	35 42	19		1.0			
		eNE	42.1	22					
		mE	42 37	25		1.2			
		eE	45.8	25					
		eL	23 00.7	32					
		ME	15 31	16		0.6			
		MN	23 36	19	6.2				
		W2?	00 12.5	26					
		F	01 30						

(Continued on next sheet).

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
179	Dec. 15	iP_{NE}	07 13 18	3	+1.7	+0.7		2920	
		iE	13 36	4		-3.2		(26°3)	
		iN	13 37	4	+9.7				h m s
		iS_E	17 56	10		-26.9			After 7 18 33
		iN	18 13	10	+40.0				Wiechert records too
		iE	18 29	10		+54.7			confused for fur-
		mN	18 33	13	49.5				ther readings. i_E &
		iE	19 12	12		+50.0			ME from Mainka.
		ME	22 48	14		>65			N-S Mainka out of
		MZ	24 42	12			7.0		commission. E-W pen
		F	11 15						dislodged at 7 23.5
180	" 15	e	19 12.4						
		e(S)	15 44	10					
		eL	18.7	16					
		MN	20 20	13	0.9				
		F	20 15						
181	" 16	e_N	06 13.7						
		eS	18 25	8					
		eL	21.7	15					
		MN	23 56	13	0.2				
		ME	25 43	11		0.3			
		F	06 40						
182	" 17	$e(P)_Z$	13 22 16	3					
		e_N	22 19	5	0.5				
		eS_N	26 46	12					
		mN	27 05	10	1.8				
		eL	29.5	19					
		MN	32 57	14	1.5				
		ME	33 33	10		3.9			
		F	14 30						
183	" 17	$e(P)_N$	19 27 52	3					
		e_Z	27 55	3?					
		iS_E	36 11	6		+1.5			
		iS_N	36 16	6	+1.5				
		mE	36 16	6		2.9			
		mN	36 24	6	2.3				
		SR2?E	42 58	12		1.2			
		eL	45.3	33					
		ME	50 39	22		2.0			
		MN	50 58	22	1.0				
		F	20 50						
184	" 18	$e(S)_N$	11 39 37						Earlier phases
		eL	42.7	14					obscured by micro-
		ME	44 13	11		1.0			seisms.
		MN	44 33	11	0.5				
		F	12 10						
185	" 20	eP_E	18 42 23	4				2800	
		eP_Z	42 24	3				(25°2)	
		iP_N	42 26	3	+1.1				
		iE	42 32	4		-1.5			
		iN	42 34	4	+4.5				
		mN	43 52	7	1.9				
		iS_E	46 52	8		-2.5			
		iS_N	46 53	8	-2.8				
		iE	47 07	8		-7.5			
		iN	47 08	8	-14.6				
		mN	47 16	9	15.4				
		iN	47 50	8	+6.4				
		mE	48 02	8		4.4			
		eL_N	49.7	24					
		eL_Z	50.3	20					

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1935		h. m. s.	s.	mm	mm	mm	km.	
185 (cont.)	Dec. 20	MZ	18 53 15	17			0.2		
		ME	53 50	11		10.8			
		MN	53 59	13	9.5				
		F	20 30						
186	" 24	e_E	13 23.0						
		eL_N	27.1	21					
		eL_E	28.3	22					
		MN	34 24	16	0.2				
		ME	36 47	16		0.3			
		F	14 25						
187	" 26	e_N	05 43.3						Obscured by heavy microseisms.
		eL	46.8	17					
		ME	48 49	17		0.3			
		MN	50 21	11	0.7				
		F	06 10						
188	" 26	iP_E	20 11 36	6		-1.9		2300	
		iS_E	15 26	8		-1.7		(20°7)	
		iS_N	15 30	8	+1.5				
		m_E	15 41	10		2.2			
		eL	17.1	24					
		MN	18 31	14	0.8				
		ME	18 55	16		1.0			
		F	21 05						
189	" 28	iP_{EZ}	02 45 37	3		-1.8	-0.5	6455	
		iP_{NE}	45 41	3	+1.6	-3.3		(58°1)	
		iS_N	53 43	7	+6.6				
		iS_E	53 44	7		+27.8			
		i_N	53 49	8	-55.7				
		m_E	53 54	7		39.1			
		i_E	54 01	7		-37.6			
		i_N	54 06 ~~55 29~~	?	+25.0				
		i_N	55 29	9	-19.0				
		i_N	57 27	8	+14.8				
		i_E	58 54	10		-14.2			
		i_N	03 00 23	?	-29.5				
		L_N	02.2	32?					
		eL_Z	04.7	38					
		ME_1	07 20	26		38.5			
		MN_1	08 50	22	>46				
		MZ	09 51	25			3.0		
		ME_2	13 20	21		>60			
		MN_2	13 52	22	>60				F 06 40
190	" 29	eP_Z	23 44 30	4					
		iP_{NE}	44 31	4	+1.2	-1.0		4010	
		m_{NE}	45 58	6	1.8	1.4		(36°1)	
		iS_{NE}	50 18	8	+5.6	-5.0			
		m_N	53 06	8	3.6				
		m_E	53 43	10		5.8			
		m_E	54 35	8		6.2			
		m_N	54 46	7	5.5				
		L_E	56.6	16					
		ME_1	57 24	10		15.0			
		MN	58 36	9	22.1				
		ME_2	58 40	9		22.1			
		MZ	00 00 51	11			0.3		F 01 35
191	" 30	$e(P)_N$	23 31 19						
		$e(S)_N$	36 49	6					L & M very indef.
		m_N	37 05	10	1.4				
		MN	41 27	10	0.5				F 00 35
192	" 31	e	01 46.1						
		e(L)	56.8	19?					WM. O'LEARY, S.J.
		MN	01 47	16	0.2				