

No. 1

1928, January.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 38^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ E.

h = 41.9 m.

Foundation : Triassic sandstone.

INSTRUMENTS:

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS. EW.)
2. Weichert 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 ₀	$\epsilon : 1$	$\frac{r}{T^2}$
A _N (1)	201	8.6	5.4	0.03
A _N (3)	110	7.9	3.9	0.03
A _E (1)	209	8.0	5.8	0.03
A _E (3)	127	9.2	3.3	0.04
A _Z (2)	84	5.0	2.9	0.08

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
1	1928 Jan. 3	e?	22	56.1							
		eL	23	07.5	16						
		MN ₁		09 17	14	2					
		ME ₁		09 39	14			2			
		MN ₂ , ME ₂		12 08	16	3		4			
		F	23	55							
2	" 4	iP _Z	21	30 51	2				2		
		eP		31 46	3						
		eS		36 23							
		eL		39.4	?						
		ME ₁		42 51	16			27			
		MN ₁		43 07	16	30					
		ME ₂		44 14	15			56			
		MN ₂		45 08	14	23					
		MZ		46 03	14					9	
		ME ₃		47 07	12				41		
		MN ₃		47 35	12	32					
		ME ₄		48 02	11				55		
		MN ₄		51 26	11	24					
F	23	00									
3	" 6	e?	19	50.7							British E.Africa.
		e(PS?)	20	00 54	10						
		e(SR ₁ ?)		07 03	18						
				07 28	18			9			
		e		17.4	24						
		eL		24.2	34						
		MN ₁		29 07	20	10					
		ME ₁		32 03	20			20			
		MN ₂		33 06	20	23					
		ME ₂		33 45	20			14			
		MN ₃		38 00	18	10					
		ME ₃		39 15	20			11			
		ME ₄		42 40	16			5			
		MN ₄		45 14	16	8					
		ME ₅		49 02	16			11			
F	23	10									
4	" 7	e	18	52.0							
		ME		56 00	12			3			
		MN		57 00	12	3					
5	" 10	F	19	15							
		e?	05	17.1							
		eL		22.5	16						
		MN ₁		24 03	12	4					
		ME		24 28	12			2			
		MN ₂		26 03	9	3					
F	05	55									

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1928, January.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			△ km.	Remarks.
							A _N μ	A _E μ	A _Z μ		
6	1928 Jan. 11	e?	23	23.0						Very small.	
		MN		32 00	12						
		F	23	55							
7	" 19	e(P?)	22	55 06					1960?		
		e(S?)		58.4							
		eL		59.4	?						
		MN ₁	23	01 19	14	25					
		MN ₂		03 13	11	36					
		ME ₁		03 30	12		6				
		MN ₃ , ME ₂		05.5	10	13	4				
		F	00	05							
8	" 20	e?	10	39.1							
		eL		45.2	14						
		MN ₁		47 15	13	5					
		ME		48 58	13		1				
		MN ₂		49 05	11	5					
		F	11	15							
9	" 20	e	12	24.3							
		M		28 04	11	2					
		F	12	40							
10	" 23	e?	22	53.1						Amplitudes very small.	
		e?	23	02.6							
		MN ₁		20 22	14						
		ME		23 15	14						
		MN ₂		29 16	12						
		F	00	35							
11	" 25	e(L?)	08	33.2	18						
		M		33 56	16	3	5				
		F	08	50							
12	" 26	eP?	22	02 07					6000?		
		eS		09 40	8						
		eL		18.3	30						
		MN ₁		22 12	16	23					
		ME ₁		23 19	14		7				
		MN ₂		23 26	12	16					
		ME ₂		25 45	16		14				
		MN ₃		26 21	16	9					
		ME ₃		29 20	16		7				
		F	23	00							
13	" 28	e(L?)	10	24.0	?						
		MN		26 12	15	2					
		F	11	00							
14	" 30	iP	03	27 05					8060 (72.5°)		
		eS		36 37	8						
		eLN		51.1	20						
		eLE		51.1	20						
		MN ₁		53 21	16	3					
		ME ₁		54 17	18		11				
		MN ₂		56 07	16	11					
		ME ₂		56 19	18		11				
		MN ₃	04	01 27	16	3					
		F	05	10							

WM. O'LEARY S.J.

No. 2.

1928, February.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ E.

h = 41.9 m.

Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS. EW.)
2. Weichert 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 ₀	$\sigma : 1$	$\frac{r}{T_0^2}$
A _N (1)	249	10.7	3.2	0.017
A _N (3)	122	8.3	4.1	0.04
A _E (1)	226	11.0	3.0	0.02
A _E (3)	135	9.9	4.0	0.048
A _Z (2)	88	5.1	3.3	0.09

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
15	1928 Feb. 4	e(P?)	06	15	19	2				2930?	
		eS		19	47	8					
		eL		23	3	21					
		ME ₁		26	12	16		8			
		MN ₁		27	17	16	10				
		ME ₂		29	12	14		6			
		MN ₂		30	13	11	8				
		MN ₃		32	06	12	7				
		ME ₃		32	21	12		6			
		F	07	55							
16	" 5	e(L?)	04	29	1				Very small.		
		MN		33	54						
		F	05	00							
17	" 5	e	22	52	5						
		eL		58	4	21					
		MN ₁	23	01	05	15	8				
		ME ₁		01	19	15		3			
		ME ₂		02	43	14		2			
		MN ₂		03	08	12	5				
		F	00	00							
18	" 6	e	04	01	0						
		CMN ₁		22	28	14	3				
		ME ₁		23	09	14		1			
		ME ₂		27	34	12		1			
		MN ₂		25	09	12	2				
		F	05	45							
19	" 7	eP	00	12	28	3			7240 (65.2°)		
		eS		21	14	8	1	2			
		eL		28	6	26					
		MN ₁		31	39	42	43				
		MN ₂		33	46	19	28				
		ME ₁		34	14	19		3			
		ME ₂		35	39	16		3			
		MN ₃		36	19	14	27				
		ME ₃		40	00	10		18			
		MN ₄		40	25	11	11				
		ME ₄		43	47	14		2			
		ME ₅		48	25	14		2			
		CN ₁		55	15	10	1				
		CE ₁		56	00	10		1			
CE ₂	01	02	46	13		1					
CN ₂		03	13	15							
F	03	55									
20	" 10	e(L?)	05	33	5	30?			Masked by micros.		

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No. 2 (continued)

1928, February.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)	Per. s.	Amplitude.			Δ km.	Remarks.
					A _N μ	A _E μ	A _Z μ		
21	1928 Feb. 12	e?	15 20.4						
		eL	25.1	17					
		MN ₁	26 07	14	1				
		ME ₁	27 29	13		1			
		ME ₂	30 24	13		1			
		MN ₂	36 10	10	1				
22	" 13	F	16 00						
		e	05 55.7						
		e(L?)	58.1	?					
		ME	06 00 05	12		1			
23	" 13	MN	03 38	13	½				
		F	06 15						
		i?	16 48 52	3				Obscured by heavy microseisms.	
		eL	55.3	19					
MN ₁ , ME ₁	57.2	12	5	3					
MN ₂ , ME ₂	58 48	12	7	2					
24	" 17	F	17 30						
		iP	12 44 55	4	4		2810 (25.3°)	h m s 0, 12 39 16	
		iS	49 14	8	6				
			49 33	8	10	6			
		eL	51.1	16					
		MN ₁ , ME ₁	54c53	11	7	8			
		ME ₂	58 00	9	3	3			
		MN ₂	59 04	8	3				
		ME ₃	13 07 27	9		3			
		MN ₃	09 10	9	3				
F	14 00								
25	" 21	e?	20.08.2						
		e	12.1						
		i(S?)	14 05	8	3½				
		eSR ₁	21 32	12					
		eL	38.2	28?					
		MN ₁	42 05	24	9				
		MN ₂ , ME ₁	44 25	24	20	9			
		MN ₃	49 19	20	5				
		ME ₂	50 20	20		2			
		ME ₃	53 42	18		2			
		MN ₄	55 42	15	2				
		F	22 50						
26	" 21	e	23 01.1						
		eL	08.0	20?					
		ME	10 14	16		4			
27	" 22	F	23 30						
		e	13 05.5	4					
		e(S?)	11.1	10					
		eL	13.1	24					
		MN	15 39	12	5				
28	" 22	ME	16 02	14		4			
		F	14 10						
		e	00 20.7						
		eL	23.1	14?					
29	" 24	MN	25 46	12	1				
		ME	27 10	12		1			
		F	00 55						
		e	23 11.8						
29	" 24	eL	15.4	25					
		M	17 30	16	1	1			
		F	23 30						

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No. 2 (continued)

1928, February.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
							A _N μ	A _E μ	A _Z μ		
30	1928 Feb, 25	eP	11	05	06						
		i(L?)	10	44	9	9	18				
		MN ₁	11	43	7	34					
		ME ₁	11	52	7		57				
		ME ₁	12	05	5			8			
		ME ₂	12	37	9		59				
		MN ₂	12	56	9	42					
		MZ ₂	13	05	5			6			
		ME ₃	13	18	12		41				
		MN ₃ , MZ ₃	14	47	12	42		17			
		ME ₄	15	00	9		32				
		MN ₄	16	11	9	29					
		MN ₅	17	17	9	10					
		ME ₅	17	40	9		15				
MN ₆	20	15	11	12							
ME ₆	22	23	11		16						
F	12	35									
31	" 26	e	01	44.2							
		e(SR ₁)		53.3	23						
		e(SR ₂)		57.7	23						
		eL	02	08.4	30						
		MN ₁		14 10	25	9					
		ME ₁		16 00	23		3				
		MN ₂		16 06	25	9					
		ME ₂		19 24	23	6					
F	04	00	23		3						
32	" 28	eP	08	42	57	4		2920 (26.3°)			
		iS	47	24	8	$\frac{3}{4}$	$4\frac{1}{2}$				
		eL	48	7	20						
		MN ₁ , ME ₁	50	08	17	5	8				
		ME ₂	53	21	9		4				
MN ₂	55	06	9	3							
33	" 29	F	09	55				2500 (22.5°)			
		eP	22	02	23	5	2		Near New Guinea. φ, 10½° S. λ, 151° E. (approx.) h m s 0, 22 57 16		
		iP	02	27	5	-14					
		iS	06	22	7		-5				
		i	06	45	8		+6				
		i	06	52	8		-29				
			07	05	8		37				
		eL	08.1	20°							
		MZ ₁	08	40	18	47					
		ME ₁	09	37	15		59				
		MZ ₁	09	58	18					40	
		MN ₂	10	15	18	94					
		ME ₂	12	02	14		64				
		MN ₃ , MZ ₂	12	32	13	49				11	
		ME ₃	12	53	8		44				
MN ₄	14	38	8	31							
ME ₄	14	39	8		33						
ME ₅	15	48	8		22						
ME ₆	17	57	8		21						
MN ₅	20	17	8	19							
F	00	10									

WM. O'LEARY S.J.

No. 3

1928, March.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ E.

h = 41.9 m.

Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS. EW.)
2. Weichert 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 ₀	s : 1	$\frac{r}{T_0^2}$
A _N (1)	230	10.6	2.9	0.015
(3)	144	8.4	4.4	0.04
A _E (1)	210	11.2	3.7	0.02
(3)	140	9.5	5.0	0.04
A _Z (2)	86	5.0	3.8	0.08

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
34	1928 Mar. 7	e	23	23.1	7					Very small.	
		e(L?)		26.1	26						
		MN		36 08	16						
35	" 9	F	00	00							
		e(P?)	11	03 22							
		eL		16.6	20						
		MN ₁		20 06	18	3					
		ME ₁		21 06	15		4				
		MN ₂		21 30	16	6					
36	" 9	ME ₂		21 42	16			7		7330 (66.0°) Dilatation. Computed azimuth:- N. 82½° W. (277½°) hence, computed:- ϕ , 7½° S. λ , 87° E. Angenheister waves h m s 0, 18 05 24	
		F	11	55							
		eP	18	16 10	4	¾	1				
		i		16 24	8	+2½	-18	-12			
		PR ₁		18 54	8		8				
		PR ₂		20 24	8		17				
		iS		25 02	9	-10	+44				
				25 08	9		39				
		PS		25 35	12		14				
		iP _c SS _c P		32 10	10	-30	69				
				32 48	18		305				
		e		33.5	60						
		eL		35.5	34						
		MN ₁ , ME ₁		36.6	18	212	130				
		MN ₂		37 44	16	286					
		MN ₃		38 45	16	240					
		ME ₂		39 58	12		130				
		MN ₄		40 12	10	260					
		ME ₃		41 14	14		180				
		MN ₅		41 56	12	170					
MZ ₁		42 04	11			90					
ME ₄		43 05	14		210						
MN ₆ , MZ ₂		44.6	14	150		110					
ME ₅		46 23	17		320						
MN ₇		47 26	12	110							
ME ₆ , MZ ₃		47.9	17		370	120					
ME ₇		49 32	16		290						
MN ₈		51 33	14	110							
ME ₈		52 10	16		210						
ME ₉		53 48	14		200						
MN ₉		54 48	12	62							
ME ₁₀		57 30	15		140						
MN ₁₀ , ME ₁₁		59.2	14	48	82						
MN ₁₁		19 04 16	11	35							
ME ₁₂		04 28	12		40						
MN ₁₂		13 20	12	32							

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No. 3 (continued)

1928, March.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
							A_N μ	A_E μ	A_Z μ		
36 Cont.	1928 Mar. 9	CE ₁	19	20	44	12		30			
		CN ₁	24	00		10	15				
		CE ₂	26	48		15		25			
		CN ₂	31	00		10	10				
		CE ₃	36	08		12		16			
		CN ₃	37	10		10					
		F	22	55							
37	" 10	e	03	37.1							
		eL		48.1	18?						
		MN ₁		52 06	14	4					
		MN ₂		54 10	10	1					
		F	04	15							
38	" 10	e	06	22.1							
		e(D?)		27.8	12						
		MN ₁		30 14	10	$\frac{1}{2}$					
		MN ₂		32 06	8	1					
		F	06	45							
39	" 10	e?	21	27.2							
		i(S?)		30 05	8			5			
		eL		31.2	?						
		MN		33 18	12	1					
		ME ₁		34 05	10			3			
		ME ₂		37 02	10			2			
		F	22	05							
40	" 13	e(L?)	02	08.2	16?						
		MNL		11 13	12	$\frac{1}{2}$					
		MN ₂		13 31	10	$\frac{1}{2}$					
		F	02	40							
41	" 13	iP	18	37 43	4	-9	+4		3130	Computed azimuth: N. 22° W. hence, computed: φ, 7° S. λ, 141° E. h m s 0, 18 31 34	
		iz		37 45	4				-5 (28.2°)		
		eS		42 24	7	3	3				
		i		42 30	7	+8	+22				
		PS		42 39	7	14	34				
		eL		45.2	20?						
		ME ₁		48 25	11		50				
		MZ ₁		50 15	11			3			
		MN ₁		50 26	11	28					
		ME ₂		50 51	11		45				
		MZ ₂		51 00	11			7			
		MN ₂		51 35	10	20					
		ME ₃		52 19	9		29				
		MN ₃		53 17	11	17					
		ME ₄		54 55	10		13				
		MN ₄		56 19	9						
		ME ₅		58 20	10		15				
		CE ₁	19	09 17	10		4				
		CN ₂		10 12	10	8					
		CE ₂		16 07	9		4				
CN ₂		17 09	11	2							
F	22	20									

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No. 3 (continued)

1928, March.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
42	1928 Mar. 13	e	22	53.8							
		e(L?)		57.1	12						
		MN	59	23	6	2					
43	" 16	F	23	15							
		iP	05	05 41	11	+40	+75	-72	2420 (21.8°)	Dilatation. Azimuth (computed from iP):- N. 63° E. hence, computed:- φ, 22° S. λ, 172° E.	
				05 51	10	190	350				
				06 10	9	150	330				
		iPR ₁		07 03	8	115	+95				
		iS		09 33	10	-110	-47	+8			
		PS		09 52	11	700	190	430			
				10 12	10			600			
		eL		10.7	25						
		MN ₁ , ME ₁		11.7	17	1230	1190				
		MN ₂		12 40	14	960+					
		ME ₂		12 47	16	1200	1200				
		ME ₁		13 09	16			1150			
		MN ₃ , ME ₃		14.6	14	960+	760				
		MN ₄		15 03	12	800+					
		MZ ₂		15 27	15			1820			
		ME ₄		16 00	14		840				
		MZ ₃		16 21	13			1030			
		ME ₅		17 05	14		760				
		MN ₅		17 45	13	690					
		MZ ₄		18 39	12			590			
		ME ₆		18 46	12		520				
		MN ₆		19 39	13	730					
		ME ₇		20 19	11		430				
		MZ ₅		21 03	12			540			
		MN ₇		23 19	12	360					
		ME ₈		23 35	11		300				
		MN ₈		25 20	12	270					
		ME ₉		25 36	11		260				
		MZ ₆		25 54	11			250			
		MN ₉		28 19	10	150					
		ME ₁₀		29 28	11		120				
		MN ₁₀ , ME ₁₁		30.6	11	180	170				
		MN ₁₁		32 19	10	120					
		ME ₁₂		33 47	12		120				
		MN ₁₂		36 30	11	115					
		MZ ₇		37 09	11			100			
ME ₁₃		38 05	10		75						
MN ₁₃		39 11	11	100							
MZ ₈		40 42	11			45					
ME ₁₄		42 52	12		100						
MN ₁₄		46 36	11	90							
CE ₁		53 37	12		34						
CN ₁		58 48	12	17							
CE ₂		59 31	11		16						
CN ₂		06 05 30	11	28							
eW ₂		07 57.9	22								
MN ₁		59 05	20	8							
ME ₁		08 01 12	16		7						
MN ₂		01 22	17	16							
ME ₂		03 14	16		6						
ME ₃		11 04	18		6						
MN ₃		13 41	16	3							
MN ₄		17 10	17	5							
ME ₄		18 24	18		6						
ME ₅		25 43	20		9						
F		10 05									

(Continued on next sheet.)

 W₂ series.

No. 3 (continued)

1928, March.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
							A _N	A _E	A _Z		
			h.	m.	s.	s.	"	"	"		
44	1928 Mar. 16	e	10	18.5		4					Very small.
		e(L?)		23.2							
45	" 16	i?	10	37	15						
		eL		39.0		20					
		MN ₁		41	06	12	3				
		ME ₁		42	21	16		2			
		MN ₂		52	48	14	1				
		ME ₂		54	00	14		3			
		F	11	15							
46	" 16	eL	15	46.5		16					
		MN		50	29	12	½				
		F	16	00							
47	" 17	e?	00	22.9		4					
		eL		31.2		22					
		ME ₁		35	00	16		1			
		MN ₁		35	07	12	2				
		MN ₂ , ME ₂		44.5		12	½	1			
		F	01	00							
48	" 17	eP	03	03.5	51	7	1	2		2420	
		eS		07	43	6?				(21.8°)	
				07	51	6		5			
		eL		09.1		20					
		ME ₁		10	43	14		4			
		MN ₁		11	07	12	9				
		ME ₂		11	35	14		6			
		MN ₂		13	11	12	9				
		F	04	00							
49	" 18	iP	03	06	53	4	+3½	+6½	-	2500	Dilatation. Azimuth (computed from iP):- N. 63° E. hence, computed:- φ, 22° S. λ, 173° E. h m s 0, 03 01 46
				06	59	8		9		(22.5°)	
		iS		10	47	8	+8	-6			
		i(L?)		11	11	24	+120				
				12	08	20		26			
		ME ₁		13	30	16		56			
		MN ₁		13	51	14	58				
		ME ₂		14	36	14		34			
		MN ₂		15	32	12	37				
		MN ₃		18	00	12	19				
		ME ₃		18	31	12		23			
		CE ₁		26	00	10		7			
		CN ₁		27	11	10	7				
		CE ₂		28	01	10		4			
		CN ₂		31	04	10	3				
		F	05	20							
50	" 18	iP	12	04	00	6	1½	+4		2500	(22.5°)
				04	04	8		8			
		iS		07	58	8		-5			
				08	15	8	6				
		eL		09.1		20					
		ME ₁		11	00	12		18			
		MN ₁		11	10	12	23				
		ME ₂		12	01	12		18			
		MN ₂		12	42	12	20				
		ME ₃		16	22	14		26			
		MN ₃		16	30	14	25				
		F	14	20							

(Continued on next sheet)

No. 3 (continued)

1928, March.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)				Per.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.	s.		A _N "	A _E "	A _Z "		
51	1928 Mar. 18	eP	20	59	26.2	4				2560		
		eS	21	03	28	8						
		eL		05.3		20	∅					
		MN ₁		06	22	14	2					
		ME		07	00	14			5			
		MN ₂		10	44	12	3					
52	" 19	F	21	50							Phases hard to identify.	
		e?	20	19	55							
		e		21.25		5						
		i		25	02	6			11			
				25	17	6	7		12			
		e(L?)		26.7		10						
		MN		29	02	10	2					
		ME		29	13	10			3			
53	" 22	F	20	55							W ₂ series.	
		e	04	37.1								
		e(PR ₃)		42	25	20						
		i(SCP _{CS})		42	51	10			-8			
		i(SCP _{CS})		44	05	15	-6		+19			
		i(PS)		46	54	18			+5			
		PSCP _{CS} ?		47	09	18			60			
		PPS?		48	25	24			63			
		SR ₁ ?		53	35	16	11		4			
		PPSS?		53	57	22			78			
		PSSS?		57	13	30			45			
		SR ₂ ?		57	53	20	12		19			
		SR ₃ ?	05	01	17	20			13			
		eL(Q)		05.8		36						
		eL(R)		10.9		40						
				11	45	32			115			
				14	51	22			63			
		MN ₁		19	23	18	19					
		ME ₁		21	08	18			53			
		ME ₂		22	00	18			53			
		MN ₂		22	19	18	18					
		MN ₃		24	29	18	20					
		ME ₃		24	55	18			31			
		MN ₄		26	16	18	19					
		ME ₄		29	10	16	∅		38			
		MN ₅		33	13	16	10					
		ME ₅		36	41	20			43			
		ME ₆		41	15	20			40			
		MN ₆		44	40	19	9					
		MN ₇		49	53	20	10					
		MN ₈	06	08	05	24	11					
		eW ₂		13.1		40						
ME ₁		17	25	26			23					
MN ₁		18	31	26	11							
ME ₂		21	19	24			23					
MN ₂		22	45	28	14							
MN ₃		24	43	24	25							
MN ₄		26	33	34	21							
ME ₃		27	27	24			30					
MN ₅		36	17	20	12							
F	08	45										

(Continued on next sheet.)

No. 3 (continued)

1928, March.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
54	1928 Mar. 23	iP	20	07	33	4		6		2710 (24.4°)	
		PR ₁		08	10	5		7			
		eS		11	45	7		2			
				12	21	8		4			
		eL		14.	3	24					
		ME ₁		15	20	20		14			
		MN ₁		15	57	18	12				
		ME ₂		16	16	20		17			
		MN ₂		17	06	16	10				
		ME ₃		18	07	14		8			
		F		21	15						
55	" 24	iP	21	39	29	3	1	1		2070 (18.6°)	
		eS		42	55	7					
		eL		43.	1	16					
		M		44	05	14	4	3			
		F		22	25						
56	" 25	cP	18	34	31						
		eL		41.	2	16					
		MN		43	22	16	5				
		ME ₁		43	57	16		4			
		ME ₂		45	04	14		4			
		F		19	10						
57	" 26	iPR ₁	05	36	07	4	5	6			
		iS		40	33	6	6				
		e		41.	8	20					
		SR ₁		43	46	10	3	7			
				44	13	6	7				
		eL		49.	4	20?					
		MN ₁		51	10	20	12				
		ME ₁		52	00	20		22			
		ME ₂		53	50	20		26			
		MN ₂		54	19	20	12				
ME ₃		57	07	18		19					
F		06	50								
58	" 26	i	06	57	27	6	3				
		e		07	00	25	12				
		i		00	41	6	5				
		eL		05.	6	?					
		ME		09	10	20		9			
		MN		10	19	20	8				
F		07	55								
59	" 26	i	08	20	20	6	2				
		i		23	30	6	3	3			
		e(L?)		30.	3	20?					
		ME ₁		32	29	18		4			
		MN ₁		33	13	18	7				
		MN ₂ , ME ₂		34	25	18	5	5			
F		09	00								
60	" 26	i	10	01	49	6	3				
		i		05	05	7	5	4			
		eL		14.	1	20					
		MN		18	08	13	3				
		ME		18	25	13		2			
		F		10	45						

(Continued on next sheet.)

No. 3 (continued)

1928, March.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
							A _N	A _E	A _Z		
			h.	m.	s.	s.	μ	μ	μ		
61	1928 Mar. 27	eP?	14	45	20	4				4700	
		ePR ₂ ?		47	17	6					
		e(PR ₂)		47	29	8					
		iP _c S		51	26	6	5	2			
		eS		51	55	9					
		i		52	17	6	4				
		SR ₁		54	39	12		3			
				54	49	10	2	3			
		i(L?)		57	35	?					
		MN ₁	15	01	06	12	2				
		ME ₁		01	13	10		3			
		MN ₂ , ME ₂		05	04	12	2	2			
62	" 27	F	15	50							
		e	19	34	34						
		e		36	17						
		eL		42	7	24					
		ME ₁		45	08	20		6			
		MN		47	25	16	3				
		ME ₂		47	45	16		4			
63	" 29	F	20	40							
		e	05	17	46	3					
		iS		24	31	6	+7	+39			
		i		25	35	6	+12	+20			
				25	41	6		31			
		i		27	04	10		-17			
		SR ₁ ?		28	10	10	5				
		i ₁		28	27	8		+16			
				34	24	10		8			
		eL		35	1	32					
		MN ₁		39	08	10	2				
		ME		43	36	12		1			
		F	07	00							
64	" 29	eP	19	24	00	3		1	2480 (22.4°)		
		eS		27	56	8	1	1			
		eL		30	0	16					
		MN		31	44	12	1				
		F	19	55							
65	" 31	eL?	01	30	1	20					
		ME ₁		47	30	18		2			
		ME ₂		52	50	18		2			
		F	02	35							

WM. O'LEARY S. J.

No. 4

1928, April.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ E.

 $h = 41.9$ m.

Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS. EW.)
2. Weichert 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 ₀	s:1	$\frac{r}{T_0^2}$
A _N (1)	236	10.6	4.0	0.017
(3)	110	8.5	4.6	0.04
A _E (1)	243	11.0	3.7	0.019
(3)	153	9.6	2.7	0.04
A _Z (2)	86	5.1	3.2	0.06

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N "	A _E "	A _Z "		
66	1928 April 2	e	22	28.9							
		eL?		31.3	24?						
		ME ₁	34	50	14			2			
		MN ₁	34	56	14	2					
		MN ₂	38	00	14	1					
		ME ₂	39	18	11			1			
		F	23	15							
67	" 3	e	11	11 09	5						Very small.
		e(L?)		14.3	16						
		ME		16 40	10			1			
		MN		17 40	10	1					
		F	11	35							
68	" 7	e?	05	25.2							Very small and obscured by micro- seisms.
		e		29.1							
		e(L?)		34.5							
		MN		37 38							
		F	05	50							
69	" 7	e	20	33.5							
		eL		54.7	?						
		ME	21	00 58	17			2			
		MN		01 56	16	1					
		F	21	45							
70	" 9	e?	17	57.4							
		ePS	18	04 06							
		eL		30.2	24?						
		ME ₁		39 49	16			1			
		MN ₁		42 16	15	3					
		ME ₂		43 02	15			3			
		MN ₂		47 44	16	2					
		ME ₃		53 02	16			3			
		eW ₂	19	48.5	?						
		ME		51 00	16			1			
		F	21	50							
71	" 10	e?	11	09.1							W ₂ series. Very small.
		eL		12.4	14						
		ME		13 39	10			1			
		MN		14 03	10	1					
		F	11	30							

(Continued on next sheet.)

No. 4 (continued)

1928, April.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
72	1928 April. 14	ePR ₂ ?	09	24	58	4				Bulgaria. Masked by heavy microseisms	
		ePPS?		34	37	7					
		eL	10	01.	4	22					
		MN ₁		18	38	20	3				
		ME ₁		21	44	22		7			
		ME ₂		24	11	18		11			
		MN ₂		26	36	18	2				
		ME ₃		28	46	18		5			
		ME ₄		31	49	20		7			
		MN ₃		45	20	20	4				
		eW ₂		57.	5	20					
		MN	11	03	20	16	1				
		F	11	35							
73	" 14	e	15	18.	1	12			A few waves.		
		e		18.	4	12					
		eL		23.	6	20					
		MN ₁		25	04	14	1				
		ME		25	10	12		1			
		MN ₂		31	10	14	2				
74	" 14	F	15	35					" " "		
		eL	22	46.	3	25					
75	" 15	MN, ME		49	45	20			" " "		
		F	22	55							
76	" 17	e	21	45.	3	15			" " "		
		MN		45	47	15	1				
77	" 18	ME		46	28	11		2	" " "		
		e?	03	40.	6						
77	" 18	ePR ₄ ?		51	32	10			W ₂ series.		
		e		59	43	7					
		eL	04	15.	5	24					
		MN		27	12	15					
		F	05	00							
		ePR ₁ ?	19	46	06						
		e		51	04						
		ePR ₃ ?		51	48						
		ePR ₄ ?		53	58						
		PPS?		58	06						
		e	20	22.	4	25					
		eL		30.	0	33					
		MN ₁		38	57	21	4				
		ME ₁		43	28	21		14			
		MN ₂		46	27	21	8				
		ME ₂		48	57	18		7			
		MN ₃		49	50	21	9				
		ME ₃		53	35	14		3			
		MN ₄		58	45	18	7				
ME ₄	21	02	09	16		3					
MN ₅		02	19	18	6						
MN ₆		07	50	20	3						
eW ₂		21.	0	22							
ME		28	14	18		2					
MN		29	54	18	2						
78	" 27	F	22	55				Very small.			
		e	19	11.	8						
79	" 27	M		27	12			W ₂ series.			
		e	21	00.	6	14					
		eL		45.	1	24		W ₂ series.			
		F	22	20							

No. 5.

1928, May.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ E.

 $h = 41.9$ m.

Foundation : Triassic sandstone.

INSTRUMENTS :

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

	V	T_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
A_N	1 226	10.4	2.8	0.018
	3 120	8.3	4.1	0.04
A_E	1 250	10.9	2.9	0.02
	3 132	9.4	3.4	0.04
A_Z	2 83	5.2	2.7	0.099

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
							A_N μ	A_E μ	A_Z μ		
80	1928 May 2	e?	h.	m.	s.				2300 (20.7°)		
		e	11	33.0							
		MN		37.1							
		ME	40	32	14	2		1			
81	" 8	F	11	55					13,800	A few waves. Peru.	
		e	04	58.9							
		i(S _c P _c S)	5	07 02	7	5					
		i(S)		07 15	6	7	3				
82	" 14	M	33	41	14				13,800	A few waves. Peru.	
		F	05	40							
		iP	02	51 29	2	1	2				
		eS		55 06	4						
		iS		55 16	6	3	4				
		eL		56.1	20						
		MN ₁		58 15	15	7					
		ME		58 42	14		3				
		MN ₂		59 05	13	11					
		F	03	35							
83	" 14	MN	03	47 29	15	2			13,800	A few waves. Peru.	
		i	22	31 04	4	2					
84	" 14	iPR ₁	34	47	10			1	13,800	A few waves. Peru.	
			35	20	10			3			
		iPS	44	14	14	+13	-26				
			45	07	14	21	36				
		PPS	46	48	14	8	14				
		iSR ₁	51	28	12	4	-8				
		SPS	51	48	14	12	16				
		PPSS	52	08	21	66	103				
		eN	23	04.7	38						
				05 00	38	80					
		eE		05.1	42						
				05 25	42		51				
				05 52	42	96					
		eL		10.7	37						
				12 20	21		60				
				12 38	24	54					
				15 59	16	30					
				16 19	18		48				
ME ₁		19 57	16		49						
MZ ₁		21 00	16			52					
MN ₁		21 06	16	61							
ME ₂		21 40	16		77						
MN ₂		21 55	16	64							
MZ ₂		22 50	16			52					

(Continued on next sheet.)

No. 5 (continued)

1928, May.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
84 Cont.	1928 May 14	MN ₃	23	23	12	16	59				
		ME ₃		23	33	16		77			
		MN ₄		30	18	16	29				
		ME ₄		33	30	16		19			
		MZ ₃		44	48	19			31		
		MN ₅		44	54	20	60				
		ME ₅		45	02	20		41			
		ME ₆		53	24	18		24			
		MN ₆	00	06	13	18	33				
		eW ₂		13.0		25					
		MN ₁		19	05	19	12				W ₂ series.
		ME ₁		19	16	18		30			
		ME ₂		25	04	18		8			
		MN ₂		25	22	18	10				
		ME ₃		34	06	18		8			
		MN ₃		35	04	16	5				
		ME ₄		41	34	18		14			
		MN ₄		46	09	18	5				
eW ₃ ?	02	31.0		25?							
MN		47	40	21							
F	lost in No. 85.										
eL	03	33.0		24							
MN ₁		41	38	18	4						
MN ₂		44	02	18	3						
F	05	20									
e	06	19.7									
MN		39	05	14	2						
F	07	10									
e	11	12.2									
e(L?)		17.1		20							
MN		23	41	?							
ME		24	27	?							
F	11	50									
e?	22	44.3									
eL		54.3		22							
ME		55	52	18		3					
MN		57	00	18	6						
F	23	15									
e	03	53.5									
eL	04	02.6		17							
ME		05	06	15		3					
MN		06	03	15	2						
F	04	25									
e	09	52.4									
eL	10	05.0		27							
MN ₁		11	30	21	3						
MN ₂		13	58	17	3						
F	10	50									
e	15	53.5									
eL		56.4		20							
MN		59	05	11							
ME	16	00	10	11							
F	16	15									
eP?	13	29	40								
eS?		34	26	9							
eL		38.4		21							
MN		42	09	12	3						
ME		42	40	12							
F	14	10									

(Continued on next sheet)

No. 5 (continued)

1928, May.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
							A _N μ	A _E μ	A _Z μ		
93	1928 May 23	e	21	05.0							
		e		07.4							
		eL		15.1	25						
		MN ₁		18 27	16	2					
		ME ₁		18 29	16		2				
		MN ₂		22 13	14	2					
		ME ₂		24 05	15			2			
94	" 26	F	21	55							
		e?	14	29.9							
		e		33.5							
		e(L?)		40.3	25						
		MN		53 08	12	1					
95	" 27	ME		53 40	12			1			
		F	15	20							
		c	05	56.0							
		eL	06	02.7	16						
96	" 27	ME		04 40	12			1/2			
		MN		05 06	12	2					
		F	06	20							
		e?	10	01 24							
		eP		02 05					7870	Perhaps only a	
		iP		02 13	6	3			(70°8)	large microseism.	
		iS		11 27	9	4		7		h m s	
		PS		11 53	16			15		0, 09 50 51.	
		PPPS?		12 05	16	22					
		S _c S		12 31	16	19		13			
		SR ₁		16 27	17			7			
		SR ₂		20 17	16			9			
		eL		21.2	43						
				22 22	43			106			
		MN ₁		28 56	21	53					
		ME ₁		30 09	19			18			
		MN ₂		31 05	19	42					
		ME ₂		33x52	19			17			
		MN ₃		33 56	19	49					
		MN ₄		35 05	19	44					
ME ₃		37 56	19			21					
MN ₅		40 34	19	30							
ME ₄		45 06	19			21					
ME ₅		47 10	19			34					
MN ₆		48 49	18	10							
ME ₆		49 10	16			21					
eW ₂	12	22.0	18								
MN ₁		24 29	18	2							
MN ₂		30 49	18	3							
F	13	05									

(Continued on next sheet)

W₂ series.

No. 5 (continued)

1928, May.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
97	1928 May 28	i	06	49	57	4		2			
		iS		53	02	9	2½	1½			
		eL		55	.8	17					
		MN ₁		56	37	17	21				
		ME ₁		58	35	17		9			
		MN ₂		59	05	13	10				
		ME ₂		59	42	17		15			
		ME ₃	07	03	33	14		3			
		MN ₃		05	20	13	6				
		F	07	50							
98	" 31	e?	17	29	.1						
		e		31	.7						
		eL		36	.3	18					
		MN ₁		38	10	14	3				
		MN ₂		39	n54	13	2				
		ME ₁		40	50	13		1			
		ME ₂		43	38	11		1			
		F	18	10							
99	" 31	e(L?)	21	10	.2						
		ME ₁		17	15	13		1			
		ME ₂		24	17	14		1			
		F	21	50							
100	" 31	ePR ₂ ?	23	37	.1						
		eS		41	27	10					
		e(S _c S)		44	10	9					
		eSR ₃		49	07	15					
		P _c SS _c P?		50	08	13		4			
		eL		51	.1	25					
		MN ₁		52	20	22	35				
		ME ₁		52	50	18		22			
		ME ₂		54	00	18		20			
		MN ₂		54	07	15	11				
		ME ₃	00	00	00	11		5			
		MN ₃		01	07	9	4				
		MN ₄		02	48	7	6				
		ME ₄		05	08	9		3			
F	01	00									

Wm Heary S.F.

No. 6.

1928, June.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ 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 ₀	s: 1	$\frac{r}{T_0^2}$
A _N (1)	225	10.3	2.9	0.018
A _N (3)	114	8.4	4.3	0.05
A _E (1)	253	10.6	3.6	0.018
A _E (3)	143	11.4	5.1	0.03
A _Z (2)	94	4.9	3.3	0.10

No.	Date	Phase	Time (Greenwich)		Per.	Amplitude.			Δ km.	Remarks.
			h.	m. s.		A _N μ	A _E μ	A _Z μ		
101	1928 June 1	eP?	13	23 14					8780?	
		ePR ₁ ?		26 52						
		iS		33 21	5	2	2			
		iPPPS		34 05	5	4	4			
		eL		45.2	22					
		ME ₁		51 50	16		2			
		MN ₁		52 06	16	2				
		ME ₂		53 33	16		2			
		MN ₂		54 17	16	3				
		MN ₃		58 05	16	3				
		MN ₄	14	07 56	15	1				
		ME ₃		08 28	14		1			
		ME ₄		12 06	14		1			
		MN ₅		17 49	15	1				
MN ₆		20 14	16	1						
102	" 3	F	15	30					2830 (25.5°)	
		eP	02	58 53	4		2			
		iS		03 16	5					
		iSR ₁		04 27	6	3				
		eL		06.0	18					
		MN ₁		07 31	14	5				
		MN ₂		09 05	11	4				
103	" 3	ME ₁		11 00	10		5		Japan.	
		ME ₂		13 40	9		2			
		F	04	05						
		eS	08	50 48						
104	" 6	eL	09	04.4	25					
		ME		09 17	18		2			
		MN		13 05	18	5				
105	" 6	F	10	10					F 16h. 15m.	
		e	15	54.1						
		MN	16	02 18	14	1				
105	" 6	ME ₁		03 13	14		1			
		ME ₂		05 24	18		2			
		F	18	19 00						
		e		23 13						
		e(L?)		27.1	20					
		MN ₁		31 09	11	5				
		ME ₁		32 15	18		3			
		MN ₂		34 04	11	2				
ME ₂		36 16	18		2					
F	20	05								

(Continued on next sheet)

No. 6 (continued)

1928, June.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A_N μ	A_E μ	A_Z μ		
106	1928 June 8	eP?	14	47	29					2670?	
		eS?		51	40						
		eSR ₁ ?		53	00						
		eL		54	7	22					
		MN ₁		58	04	13	13				
		ME ₁		59	05	13		5			
		MN ₂		59	39	11	12				
		ME ₂	15	01	00	18		20			
		MN ₃		03	03	10	7 ₊				
		ME ₃		05	02	12		4			
107	" 15	F	16	10						6156 (55.4°)	Condensation. Azimuth (computed from iP): 323° (N. 37° W°) hence, computed: φ, 13° N. λ, 120° E. h m s 0, 06 12 26
		iP	06	22	06	6	-8	+6	+6		
		PR ₁		24	16	9	3 ₊	3 ₊			
		PR ₂		25	24	8	1				
		PR ₃		26	00	6	3	5			
		iSE		29	48	8	13	-13			
		iSN		29	51	8	+20				
		PS		30	08	10	14 ₊	15 ₊			
		PPPS		30	20	10	7 ₊	11 ₊			
		SR ₂		35	49	12	14	13			
		SR ₃		36	40	14	21	35			
		P _c SS _c P		38	04	12	10	20			
		eL		39	2	30					
		MN ₁		41	42	12	30				
		ME ₁		42	46	16		43			
		MN ₂		43	07	10	16				
		MZ ₁		43	26	18			14		
		ME ₂		44	11	16		48			
		MN ₃		45	09	12	31				
		MZ ₂		47	29	19			16		
		MN ₄ , ME ₃		47	46	16	50	44			
		ME ₄		49	05	18		52			
		ME ₅		51	48	16		26			
		MN ₅		53	20	14	25				
		ME ₆		54	48	16		23			
		MN ₆		55	41	14	17				
		CN ₁	07	12	30	12	4				
CE ₁		13	46	14		7					
CN ₂		19	00	10	2 ₊						
CE ₂		19	04	10		3 ₊					
108	" 15	F	L9	10						6670?	
		eP ₂ ?	17	25	19						
		iS		33	28	6	4	3			
		PS		33	48	6	7	6			
		SR ₁		37	34	10		2 ₊			
		iSR ₂		39	37	12		7			
		SR ₃		40	21	12	5				
		eL		43	1	25					
		MN ₁		46	18	17	16				
		ME ₁		46	23	17		35			
		MZ ₁		48	06	18			14		
		MN ₂		51	04	19	26				
		ME ₂		42	12	17		26			
ME ₃		58	00	12		17					
F	19	25									

(Continued on next sheet)

No. 6n(Continued)

1928, June.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.		
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		h	m	s
109	1928 June 16	eP	18	32	31	3?				2970 (26.7°)		0, 18 26 37	
		iS		37	03	5		5					
		SR ₂		38	38	5	7						
		eL		40	.6	20?							
				41	02	8		9+					
		MN ₁		42	40	20	35						
		ME ₁		43	44	12		5					
		MN ₂		44	03	20	39						
		ME ₂		45	52	20		11					
		MN ₃ , ME ₃		47	07	10	5+	7+					
110	" 17	ePR ₁	19	45					Mexico.				
		ePR ₂	03	39	30	?							
		e		42	06	?							
		PR ₄		45	04	9							
		iS _C P _C P _C S		45	17	9		4+					
		iPS		46	29	11	2	+14					
		PPPS		49	17	14		+40					
		i		50	48	18		38					
		iSR ₁		53	55	14		-17					
		iN		55	02	16		-23					
		iE		55	35	11	-17	+140		} Group of large waves which cannot be identified.			
				56	58	18		53					
		SR ₂		59	35	27		48					
		SR ₃	04	03	38	20	18	19					
		PR ₄ ?		03	58	17	10	16					
		eLN		07	.0	40							
				08	00	60	560+	} 2 remarkable waves on N.					
				09	10	60	640+						
		iL _E		13	00	36		+200		} Group of remarkable waves on E & Z.			
				14	02	31		550					
				14	30	31		510		300			
				17	02	20	49	125					
		MN ₁		21	18	17	72						
		ME ₁		21	35	16		150					
		ME ₂ , MZ ₁		23	03	16		190		120			
		MN ₂		23	21	16	70						
		ME ₃		23	38	16							
		ME ₄ , MZ ₂		25	03	16							
		MN ₃		25	37	16	92						
		ME ₅		26	20	16							
MN ₄		29	05	16	46								
MZ ₃		29	15	16									
ME ₆		29	18	15									
MN ₅		30	05	15	45								
ME ₇		30	20	15									
ME ₈ , MZ ₄		31	04	15									
ME ₉		31	57	15									
MZ ₅		32	07	15									
ME ₁₀		32	57	15									
MN ₆		33	00	15	29								
ME ₁₁		34	44	15									
ME ₁₂		36	00	15									
MN ₇		36	13	15	49								
ME ₁₃		39	58	15									
ME ₁₄		43	16	15		48							
MN ₈		44	05	15	29	37							
CE ₁		48	48	16		16							
MN ₉		49	43	15	40								
CE ₂		52	35	15		24							

Exclude the C phases. CE1 etc.

(Continued on next sheet)

No. 6 (continued)

1928, June.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
110 Cont.	1928 June 17	CE ₃	04	56	13	13		16			
		CE ₄		59	16	15		17			
		CN ₁		59	59	16	14				
		CN ₂	05	03	58	16	11				
		CN ₃		07	00	16	27				
		CE ₅		10	42	16		27			
		CN ₄		13	00	16	19				
		eW ₂		17.0		30					W ₂ series.
		ME ₁		22	11	30			72		
		MN ₁		22	51	26	24				
		ME ₂		24	31	30			55		
		MN ₂		26	48	22	25				
		ME ₃		28	38	24			41		
		MN ₃		33	15	18	17				
		F	Lost in No. 111.								
111	" 17	i	06	47	04	6		+3			
		i		51	10	6	-16	+3		Perhaps S.	
				51	16	6		9		" L.	
		i		54	04	13		-6			
		i		54v20		7	+5	-3			
				54	36	12	9				
		i		56	40	12	-22			" M.	
		56	42	8		+14		Phases hard to identify.			
112	" 18	F	07	45							
		i	13	10	17	4		2			
		i		12	06	4	3				
		ME		16	56	11		3			
113	" 18	MN		17	15	11	5				
		F	13	40							
		e?	22	14.1							
114	" 21	eL		21.1	20						
		ME		24	16	16		4			
		MN		24	20	16	3				
		F	22	40							
		eP	03	51	13	4			2700		
iP		51	17	4	-5	-8	(24.3°)	Azimuth (computed from iP):			
i		55	20	3	-4	-4		50°			
iS		55	24	5	+2½	+28		(N. 59° E.)			
		55	35	8	14	12		hence, computed:			
eLE	57.5	∅	17					φ, 20° S.			
eLN	58.0		17					λ, 171½° E.			
ME ₁		59	00	15		4		h m s.			
MN ₁		59	14	15	6			0, 03 45 45			
ME ₂	04	00	50	15		4					
MN ₂		01	29	14	3						
MN ₃		03	11	14	3						
ME ₃		04	01	13		4					
		F	05v05								

(Continued on next sheet)

No. 6 (continued)

1928, June.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
							A _N	A _R	A _Z		
115	1928 June 21	iP	10	46	37	4	-1	-3		km. 3540 (31.9°) Azimuth (computed from iP): 67½° (N. 67½° E.) hence, computed: φ, 18° S. λ, 178° W. h m s 0, 10 39 53	
		P _{CP}		49	24	7		7			
		eS		51	52	11					
		iS		51	52	11	-5	+20			
				52	09	12		8			
				52	17	12			30		
		iSR ₁		53	36	12	-15	14			
		SR ₂		54	03	12		23	10		
		eL _Z		55.0		24?					
		eL _E		55.1		20					
				55	25	18		76			
				55	44	18			110		
				56	30	18			96		
		MN ₁		57	15	12		92			
		ME ₁		57	40	14			56		
		MN ₂ , MZ ₁		58	08	12	140		12		
		ME ₂		58	26	11			42		
		MN ₃		58	58	13	160				
		MN ₄	11	00	16	12	110				
		MN ₅		01	10	11	95				
		MZ ₂		01	19	12			12		
		ME ₃		01	52	11			39		
		MN ₆		02	28	11	79				
		ME ₄		02	50	11			45		
		ME ₅		04	18	12			42		
		MN ₇		05	16	11	95				
		MZ ₃		05	21	13			14		
		ME ₆		05	37	11			71		
		MN ₈		06	29	11	125				
		ME ₇		06	37	11			115		
		MN ₉		07	05	11	110				
		MZ ₄		07	22	13			14		
		ME ₈		07	25	11			93		
ME ₉		08	05	11			59				
MN ₁₀		09	27	11	72						
ME ₁₀		10	37	11			42				
MN ₁₁		10	49	12	84						
MN ₁₂		14	12	11	59						
ME ₁₁		14	20	11			52				
MN ₁₃		15	54	11	60						
ME ₁₂		16	51	10			28+				
MN ₁₄		18	05	10	28+						
ME ₁₃		18	59	11			31				
ME ₁₄		20	39	11			26				
MN ₁₅		22	07	11	32						
CE ₁		37	09	10			14+				
CN ₁		42	35	11	12						
CE ₂		43	10	11			10				
CN ₂		45	20	11	13						
CE ₃		55	12	11			10				
CN ₃		57	51	11	10						
ew ₂	13	36.8		18							
MN		38	15	18	1						
F	14	10									

 W₂ series.

(Continued on next sheet)

No. 6 (continued)

1928, June.

RIVERVIEW COLLEGE OBSERVATORY,
SYDNEY. N.S.W.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _R μ	A _Z μ		
116	1928 June 21	eP?	16	41	55					Phases will not fit.	
		eP'?		45	48						
		e		50	09	14					
		eS _c P		52	11	10					
		iPS _c P		53	41	14	4	5			
				56	33	14	2				
				59	33	16		3			
				59	43	16		3			
		SR ₁	17	01	14	14	3	6			
		SR ₂		06	00	14	2	4			
		e(L?)		08.0		27					
		e		11.0		18					
				11.28		18	2	2			
				11	48	18		2			
		MN ₁		19	10	21	8				
		MN ₂		23	44	21	10				
		ME ₁		24	00	19		5			
		MN ₃ , ME ₂		27	08	18	7	6			
		MN ₄ , ME ₃		31	15	18	7	6			
		MN ₅		34	24	18	5				
		MN ₆		40	05	18	7				
		ME ₄		43	00	18		9			
		ME ₅		46	29	17		5			
		MN ₇		54	15	18	5				
		eW ₂	18	38.2		21					
		ME ₁		42	26	18		2			
		MN ₁		45	06	18	8				
		MN ₂		52	51	18	1				
		ME ₂		55	36	18		2			
		F	20	05							
iP	22	55	09	6	+8	+9	2810				
PR ₁		55	42	8	13+	17+	(25°3)				
		56	06	6	16	33					
		56	42	8	19	16					
		57	30	8	17	28					
P _c P		48	36	10	12+	17+					
S		59	30	8	46+	35+					
		59	54	10	95+	90+					
eL _Z	23	01	18	12		87					
eL _E		02.2		24							
		02.7		18?							
MZ ₁		03	34	21		230					
ME ₁		04	16	14		190+					
ME ₂		04	58	14		170+					
MZ ₂		05	40	15			77				
ME ₃		06	00	13		140					
MZ ₃		09	07	10			30				
ME ₄		10	05	10		120+					
ME ₅		15	06	12		65					
ME ₆		18	38	10		52+					
F	02	15									

 W₂ series.

 Azimuth (computed from iP):
 $46\frac{1}{2}^\circ$
 (N. $46\frac{1}{2}^\circ$ E.)
 hence, computed:
 ϕ , 14° S.
 λ , 170° E.

 h m s
 0, 22 49m30

NS component deranged partly from 23h. 00m. to 23h. 19m.

15m O'Leary St.

No. 7

1928, July.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ 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 ₀	$\epsilon : 1$	$\frac{r}{T_0^2}$
A _N (1)	238	10.4	2.9	0.018
(3)	115	8.4	4.1	0.03
A _E (1)	247	10.8	2.7	0.03
(3)	137	11.1	4.2	0.05
A _Z (2)	35	5.1	3.3	0.09

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.	
			h.	m.	s.		A _N μ	A _E μ	A _Z μ			
118	1928 July 9	eP	21	28	59	4	1 $\frac{1}{2}$			2830 (25.5°)	Dilatation. Azimuth (computed from iP):- N. 30° E. hence, computed:- ϕ , 12° S. λ , 164° E. h m s 0, 21 23 18 From 21h.34m. to 21 36 com- plex long waves repeated. Stations URSS. give epicentre: 13°S., 161°E. Wellington ep.- 4°S., 150°E. 0, 21h 22m 44s.	
		iP	29	01		5	+12 $\frac{1}{2}$	+7	-1 $\frac{1}{2}$			
		PR ₁	29	35		10	9					
		PR ₂	29	44		8	7					
		iS	33	22		8	-14	+12				
			33	49		9	57	31				
		e	34.1			14						
		SR ₁	34	40		8		33				
		eL _Z	35.2			28						
		ME ₁	36	03		16		80				
		MN ₁	36	35		16	175					
		MN ₂ , ME ₂	37	08		13	170	71				
		MN ₃	37	22		13	180					
		ME ₃	37	34		15		130				
		MN ₄	37	37		15	270					
		ME ₄	37	47		13		81				
		MZ ₁	38	05		11			14			
		MN ₅ , ME ₅	40	10		11	59	74				
		ME ₆ , MZ ₂	41	04		11		90+	23			
		MN ₆	41	11		11	58					
		MN ₇	42	20		10	63					
		ME ₇	42	28		9		73				
MN ₈ , ME ₈	43	03		9	59	63						
ME ₉	44	37		9		37						
MN ₉	45	13		9	55							
ME ₁₀	46	49		9		32						
MN ₁₀	49	18		9	56							
CN ₁	22 07	33		9	5							
CE ₁	07	36		9		5						
CN ₂	10	51		9	7							
CE ₂	11	07		9		4						
CN ₃	14	07		9	8							
CE ₃	14	11		9		4						
F	23 35											
eL	04 27.0			17								
MN	29 00			15	1							
ME	30 26			14		1						
F	04 45											

(Continued on next sheet.)

15. 7 (continued)

1928, July.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time			Per.	Amplitude.			Δ	Remarks.
			(Greenwich)				A _N	A _E	A _Z		
			h.	m.	s.	s.	μ	μ	μ	km.	
120	1928 July 10	eP?	09	45	23					3420?	
		eS?		49	23	8					
		eL		52.	1	19					
		MN ₁		53	24	15	2				
		ME ₁		55	07	12		1			
		MN ₂		56	07	12	2				
		ME ₂		58	11	9		2			
		ME ₃		59	08	8		3			
121	" 11	F	10	25						3440 (31.0°)	
		iP _E	02	56	00	5		1½			
		iS _E	03	01	01	9		2½			
		eL		02.	4	?					
		ME ₁		05	05	14		13			
		MN ₁		05	25	14	13				
		ME ₂		06	00	15		22			
		ME ₃		07	01	13		9			
		MN ₂		07	32	13	13				
		ME ₄		08	19	15		11			
		MN ₃		09	15	13	8				
122	" 13	F	04	05						La Paz epicentre: 49° S., 19° W. P 9 36 41. Δ 5700 km.	
		eL	10	18.	0	20					
		MN ₁		23	10	18	2				
		ME ₁		23	29	16		1			
		MN ₂		25	18	18	2				
		ME ₂		26	20	16					
		MN ₃		30	17	16	1				
		F	11	00							
123	" 13	eS	20	05	57	8		1½		Very small. Stations URSS° ep. 9° N., 147° E.	
		eL		08.	1	24					
		MN		09	27	10	1				
		ME		09	47	10		1			
		F	20	20							
124	" 18	ePR ₁	19	25	11					Peru. La Paz epicentre: 4° S., 80.5° W. P 19 08 41 Δ 2000 km. J.S.A. ep. 6.5° S., 79.5° W. 0, 19 04 48. Stations URSS. ep. 3.5° S., 81° W. Ottawa 0,19 05 03 P 14 05 Δ 5510 km. U.S.C. & G.S., 0, 19 04 53	
		i		27	05	6		4			
		ePR ₂		28	33	8					
		iPR ₃		31	07	6		4			
		iPR ₄		32	06	6	3				
		PS		35	11	10		1½			
		PPS		36	18	13		1			
		ePPPS		37	23	16					
		iSR ₁		41	57	8	1½	1			
		PPSS		42	23	24	11	14			
		PR ₂ ?		43	02	16		5			
		PSSS		46	07	16	4				
		eSR ₂		46	37	18					
		eL(Q)		55.	2	32					
		eL(R)	20	00.	7	32					
		MN ₁		03	11	22	11				
		ME ₁		04	00	22		13			
MN ₂		07	00	20	6						
ME ₂		07	13	20		10					
ME ₃		10	13	20		9					
MN ₃		11	07	18	11						
ME ₄		13	15	16		7					
MN ₄		17	12	16	7						
ME ₅		26	05	16		8					
MN ₅		29	30	16	3						

(Continued on next sheet.)

No. 7 (continued)

1928, July.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A_N "	A_E "	A_Z "		
124 Contd.	1928 July 18	ME ₆	20	33	30	16		3		W ₂ series.	
		MN ₆		36	18	16	3				
		MN ₇		42	32	16	3				
		ME ₇		45	33	16		2			
		MN ₈		54	55	16	3				
		eW ₂	21	15	0						
		MN		20	45	18	3				
		ME		21	23	18		3			
125	" 20	F	22	25							
		e(L)	00	21	5	28					
		MN ₁		28	18	20	4				
126	" 21	MN ₂		30	34	18	2				
		F	00	50							
127	" 23	i(P?)	02	48	06	2	2			Obscured by heavy microseisms. L disturbed by visit. Stations URSS. ep 2.2° S., 124.6° E Moluccas.	
		e(S?)		54	04	6					
				54	40	7	1				
		i(SR ₂)		57	38	4	2				
		i(SR ₃)		58	00	6	3				
		eL	03	04	.1	?					
		MN ₁		06	32	14	2				
		MN ₂		10	36	14	2				
		F	03	45							
		iP	07	45	16	4	+5	-3	2130		
iS		48	48	10	+5 $\frac{1}{2}$	+6	(19.2°)				
ME ₁		49	00	14		45					
MN ₁		49	06	14	24						
ME ₂		49	14	13		32					
MN ₂		49	34	12	19						
ME ₃		49	54	12		30					
MN ₃		49	58	12	19						
ME ₄		50	38	12		38					
MN ₄		50	42	12	18						
ME ₅		50	58	12		37					
MN ₅		51	30	12	14						
ME ₆		52	03	12		17					
MN ₆		53	38	10	9						
MN ₇		54	52	10	8						
ME ₇		55	04	10		9					
MN ₈		56	50	10	7						
ME ₈		59	28	10		4					
MN ₉	08	01	17	12	5						
ME ₉		02	05	10		4					
128	" 26	F	09	15					Obscured by heavy microseisms. Stations URSS.ep. 8° S., 121° E. (approx.)		
		e?	12	23	.9						
		e?		25	.7						
		eL		36	.0	20					
		MN ₁		39	26	12	3				
		MN ₂		40	27	16	5				
129	" 28	ME ₁		41	04	14		3	Very small and masked by micros.		
		ME ₂		42	50	14		3			
		F	13	30							
		i	00	11	35	4		3			
		ME		16	38	9		1			
MN		17	36	9	1						

Am Oct 20 1928

Riveroiew College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S. $\lambda = 151^{\circ} 9' 30''$ 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 ₀	s:1	$\frac{r}{T_0^2}$
A _N (1)	205	9.4	6.5	0.02
A _N (3)	113	6.4	4.8	0.05
A _E (1)	226	11.0	5.2	0.03
A _E (3)	125	11.5	9.1	0.06
A _Z (2)	89	5.0	3.6	0.12

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
130	1928 Aug. 4	e	18	46.	2					Destructive in Oaxaca, Mexico.	
		ePR ₃	51	16							
		iz	51	30							
		iS _c P _c S	52	00	7			2			U.S.C. & G.S. ep. 14° N., 98° W. O, 18 25 54.
		iS _c P _c P _c S	53	09	8			3			
		iPS	55	56	12			5			
			56	04	16			11			
		PPS	57	22	18			6			Georgetown, P 18 32 19
			58	20	18			6			
		SR ₁	19	02	35	20	12				
		PPSS	02	50	24			40			Harvard Δ 3740 km O, 18 26 05 P 33 04
		ePSSS	06	38	18						
		eSR ₂	07	00	16						
		eL(Q)	14.	0	28						
		eL(R)	19.	4	32						La Paz Δ 4780 km P 18 34 31
		ME ₁	20	22	28			33			
		ME ₂	25	20	20			12			
		MN ₁	25	42	20	16					Stations URSS. ep 16° N., 97.5° W.
		MN ₂	32	18	16	7					
		ME ₃	35	08	16			7			
		MN ₃	41	00	16	8					
		ME ₄	42	04	14			5			
		ME ₅	48	10	16			6			
		MN ₄	50	59	16	8					
		ME ₆	55	10	16			3			
		MN ₅	59	00	16	7					
		ME ₇	20	04	06	16		4			
		MN ₆	07	52	16	4					
		SW ₂	26.	4	40						W ₂ series.
		ME ₁	35	59	24			13			
MN ₁	37	52	20	10							
ME ₂	42	28	20			9					
MN ₂	44	30	20	20							
ME ₃	51	33	20			7					
MN ₃	53	42	20	6							
ME ₄	21	02	14	20		4					
F	22	25									

(Continued on next sheet.)

No. 8 (continued)

1928, August.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time			Per.	Amplitude.			Δ	Remarks.	
			(Greenwich)				A _N	A _E	A _Z			
			h.	m.	s.	s.	"	"	"	km.		
131	1928 Aug. 12	eP	08	16	27	4				4600	iP Dilatation.	
		iP		16	31	4	+10	-8 $\frac{1}{2}$	-4 $\frac{3}{4}$	(41.4°)	Azimuth (computed from iP):	
		iPR ₁		18	06	6	9	9	6		N. 39° 45' W.	
		P _c P		18	17	6	9		6		hence, computed:	
		P _c S		22	19	6			2		φ, 0°	
		iS		22	37	6	10				λ, 126° E.	
		iSR ₁		25	59	6	8		12		0, 08 08 26.	
				26	34	8			8			
		SR ₂		26	50	8	9					Batavia Δ 2190 km
		iSR ₃		27	11	6	9		10			P 8 13 33. Menado,
				29	08	6	7		9			Sangi I., Terante.
				31	22	9			10			Phu-Lien Δ 2790 km
		eL		32.0		14						P 8 14 31
		ME ₁		33	46	14			13			Zi-Ka-Wei Δ 3810
		MN ₁		34	22	16	18					P 8 15 27
		ME ₂		36	08	10			9			Wellington Δ 67° 8
		ME ₃		37	00	14			20			0 8 07 46
		MN ₂		37	30	12	17				6	Stations URSS. ep.
		MZ		37	34	12						2° N., 125° E.
		ME ₄		38	52	10			9			
F	09	45										
132	" 24	iP	21	48	35	4	-9	-7	+2	2610	Condensation.	
				48	39	4	13	10	-9	(23.5°)	Azimuth (computed from iP):	
		iPR ₁		49	06	5	-13				N. 37° E.	
		PR ₂		49	17	5	11	6	+4		hence, computed:	
		PR ₃		49	26	5	15	5	+4		φ, 14 $\frac{1}{2}$ ° S.	
				49	38	6	17	20			λ, 166° E.	
		iS		52	42	6	-42	+9			0, 21 43 16	
		SR ₁		53	40	8	51	45				
		SR ₂		54	00	8	66	24				
		SR ₃		54	22	9	54	39				
		eL		54.8		13						Adelaide Δ 3350 km
		MN ₁		55	16	8	28					P 21 49 54
		ME ₁		55	28	8			33			Wellington Δ 31° 1
		MN ₂		55	41	8	23					P 21 49 05
		ME ₂		55	52	10			30			Batavia Δ 6370 km.
		ME ₃		56	41	7			21			P 21 53 07
		MN ₃		57	40	8	23					Zi-Kz-Wei Δ 6860 km
		ME ₄		57	59	8			28			P 21 53 41
		MN ₄	22	00	17	6	15					
		F	23	10								
133	" 24	eP _z ?	23	23	45						P lost on Weichert while changing papers.	
		eS?		28	46	8						
				29	24	13	6					
		eL		33.6		21						Adelaide
		ME ₁		35	00	17			12			i 23 29 36
		MN ₁		35	09	17	14					eL 35 05?
		MN ₂		36	33	15	8					Wellington
		ME ₂		37	09	13			4			eL 23 35 39
		ME ₃		40	10	13			3			
		MN ₃		41	13	13	4					
		MN ₄		44	09	13	7					
		F	00	20								

(Continued on next sheet)

No. 8 (continued)

1928, August.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
134	1928 Aug. 28	eP?	08	29	33				3630?		
		iS		34	47	4	3				
		i		35	07	4	5				
		i		36	05	5		8			
		eL		39	.0	24					
		MN ₁ , ME ₁		40	00	18	8	8			
		MN ₂		42	00	14	3				
		ME ₂		43	05	12		3			
		ME ₃		44	17	12		2			
		F	09	20							
135	" 29	e	02	39	.5				Apia e 2 41	h m	
		e		45	.1						
		eL		47	.1	32					
		ME ₁		49	06	14		3			
		ME ₂		52	38	18		1			
		MN		53	38	14	1				
		F	03	10							

Wm. A. Leary S.P.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ E.

 $h = 41.9$ m.

Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS. EW.)
2. Weichert 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 ₀	$\frac{r}{T_0^2}$	$\frac{r}{T_0^2}$
A _N (1)	216	9.4	6.3	0.026
(3)	123	8.3	4.8	0.03
A _E (1)	235	10.8	6.0	0.03
(3)	118	10.1	4.2	0.06
A _Z (2)	87	5.1	3.3	0.09

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
136	1928 Sept. 1	e	06	32.1						URSS. Stations ep 30° N., 72° E. Tachkent Δ 1210km P 6 12 58 Zi-Ka-Wei Δ 4810 e 6 17 20	
		eL	07	02.4	25						
		ME ₁	08	56	20		5				
		MN	10	08	16	4					
		ME ₂	13	24	20		3				
137	" 1	F	07	45						Apia P 7 39 36	
		e	07	46.5							
		MN ₁	54	12	14	3					
		MN ₂	55	39	12	1					
		ME ₁	56	00	16		2				
138	" 6	ME ₂	57	33	13		1			Masked by heavy microseisms. Apia Δ 2° P 8 52 00	
		F	08	45							
		e	09	02.6							
		eL	10.1	16							
		MN ₁	11	07	10	4					
139	" 7	MN ₂	12	53	10	2				3120 (28.1°) O, 02 49 04 Perth P 2 55 12 Adelaide Δ 3100 k P 2 55 22 Batavia i 2 56 53	
		ME	14	08	13		2				
		F	09	25							
		eP	02	55 12	4						
		iS	58	54	7	4	9				
			03	00 05	7	9					
		SR ₁	04	22	8	5	7				
		eL	02.5	22							
		MN ₁	06	20	19	49					
		ME ₁	06	31	15		71				
140	" 10	MZ ₁	07	09	15			18		3290 (29.6°)	
		MN ₂	07	37	15	66					
		ME ₂	07	53	13		33				
		MN ₃	08	42	15	45					
		ME ₃	09	07	13		26				
		F	04	05							
		e	21	48.2							
		MN	54	31	17	4					
		F	22	15							
		141	" 11	eP	00	43 08					
eS	48			00	?						
	48			30	15	11					
eL	51.6			26							
MN ₁	53			07	18	13					
ME ₁	53			20	16		7				
MN ₂	54			30	16	12					
ME ₂	56			13	14		4				
MN ₃	57			20	15	7					
F	01			40							

(Continued on next sheet.)

No. 9 (continued)

1928, September.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A_N "	A_E "	A_Z "		
142	1928 Sept. 12	iP _E	01	24	45	4		-1 $\frac{1}{2}$		2370 (21.3°)	O, 01 19 52 Wellington N.Z. reports felt in Hawkes Bay and Bay of Plenty Distr icts, N.I., N.Z. Δ , 9.4° O, 1 20 03 P, 22 25
		i		25	51	4		+3 $\frac{1}{2}$			
		i		25	56	4		-16	+2		
				26	51	5		10			
				27	32	7		12			
		iS		28	34	7	-5	+14			
		eL		30	.3	12					
		i		31	00	8	+23				
				31	10	8	31				
				31	16	12		14			
		MN ₁		32	51	12	6				
		ME ₁		33	20	12		7			
		MN ₂		34	07	12	9				
143	" 13	F	02	25					4790 (43.1°)	O, 03 26 08 Very heavy micro- seisms. Manila Δ 3280 km P 3 29 37 SE. Sangi Is. Amboina Δ 700 km P 3 29 57 Batavia Δ 2400 km P 3 31 08 Menado, Sangi I., Halmaheir URSS. stations ep. 2 $\frac{1}{2}$ ° N., 126 $\frac{1}{2}$ ° E.	
		eP	03	34	22						
		iS		40	43	6	-9				
		iSR ₁		45	02	7	+6	-6			
		eSR ₂		46	18	19					
		eSR ₃		46	44	19					
		eL		48	.2	26					
		ME ₁		52	00	23		35			
		MN ₁		53	47	21	19				
		ME ₂		54	45	26		30			
		ME ₃		56	03	17		25			
		MN ₂		56	21	17	38				
		F	04	50							
144	" 19	e	13	10	.5				2830 (25.5°)	Azimuth (computed from iP): N 37° 45' E. hence, computed: ϕ , 13° S. λ , 167° E. O, 07 31 13 Apia P 7 36 22 Wellington Δ 26.9-28.1° P 7 37 25-27 Manila Δ 5195 km. P 7 40 37 U.S.C. & G.S. ep. 14° S., 164° E. URSS. stations ep. 16° S., 161° E.	
		eL		13	.3	14					
		MN		15	20	11					
145	" 22	F	13	25					2830 (25.5°)	Azimuth (computed from iP): N 37° 45' E. hence, computed: ϕ , 13° S. λ , 167° E. O, 07 31 13 Apia P 7 36 22 Wellington Δ 26.9-28.1° P 7 37 25-27 Manila Δ 5195 km. P 7 40 37 U.S.C. & G.S. ep. 14° S., 164° E. URSS. stations ep. 16° S., 161° E.	
		iP	07	36	54	4	+3	+2 $\frac{1}{2}$			
		iPR ₁		37	26	4	+6	+4			
		iPR ₃		37	41	4	-4				
		P _c P		40	11	7	5				
		eS		41	17	8					
		iS ₁		41	22	11	+25	+12			
		iS ₂		41	27	11	-49	-45			
		SR ₁		42	06	9	17	18			
		SR ₂		42	27	9		13			
		SR ₃		42	36	12	33	14			
		eL		43	38	18					
		MN ₁		44	27	11	27				
		MZ ₁		44	36	18		20			
		ME ₁		44	59	16		48			
		MN ₂		45	25	14	60				
		ME ₂		46	07	14		31			
		MZ ₂		49	33	15		18			
		MN ₃		50	13	14	45				
		ME ₃		51	32	12		30			
MN ₄		53	17	12	18						
ME ₄		55	08	12		35					
ME ₅		56	47	11		24					
eW ₂	10	31.9		14?							
F	11	15									
146	" 24	e?	09	29	.8				W ₂ series. Obscured by heavy microseisms. 10 th of Aug A.		
		e		32	.9						
		e(L?)		39	.3	16					
		MN		42	44	14	2				
		ME		43	14	14		1			
		F	09	45							

No. 10

1928, October.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ E.

h = 41.9 m.

Foundation: Triassic sandstone.

INSTRUMENTS:

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Weichert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (480 kilo.) (NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

	V	T ₀	$\epsilon:1$	$\frac{r}{T_0^2}$
(10)	212	9.4	5.3	0.02
A _N (3)	113	8.4	4.8	0.03
A _E (1)	256	10.7	5.4	0.03
A _Z (3)	106	9.5	3.4	0.07
A _Z (2)	80	5.0	3.0	0.10

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N "	A _E "	A _Z "		
147	1928 Oct. 9	e	03	19	52					Mexico.	
		iP'	21	09	4		+3				
		iPR ₁	22	04	4		-7				
		iPR ₃	26	54	8		-11			Georgetown,	
		iScPcS?	28	08	10		+18			P 03 07 10	
		iPS	30	56	11		+11			S 11 57	
		i	31	03	15		-77				
		PcPcPcP	31	33	19		32			Harvard Δ 3740 km.	
		PPS	31	56	19		28			O 03 00 30	
		PPPS	32	25	22		57			P 07 29	
		SR ₁	37	52	24	31	110				
		SR ₂	42	09	17		20			Spokane Δ 36.7° in	
		SR ₃	46	01	19		17			Acapulco Deep off	
		eL	54.8		30					Coast of Mexico.	
		L	55	28	30	40	100		66		
		L	55	59	30		120		88	Granada epicentre	
		ME ₁	04	01	19		57			14.7°N., 97.5°W.	
		MN ₁	01	35	19	34				P 03 13 37	
		MZ ₁	03	07	19				34		
		ME ₂	03	27	19		77			U.R.S.S. ep.	
		MN ₂	09	22	17	13				16.8°N., 102.2°W.	
		ME ₃	09	57	17		21				
		ME ₄	14	35	15		15			Wellington Δ 89.6°	
		MN ₃	17	14	15	12				O 03 01 03	
		MN ₄	21	01	15	18				P 14 21	
		ME ₅	23	04	15		21				
		MN ₅	28	13	15	10					
		ME ₆	29	02	15		13				
		ME ₇	34	16	17		11				
		MN ₆	36	18	15	6					
		MN ₇	43	16	19	15					
		ME ₈	47	04	16		8				
		MN ₈	49	16	19	14					
		ew ₂	56.1		34					W ₂ series.	
		MN ₁	05	02	16	21	13				
		ME ₁	05	00	30		58				
		MN ₂	05	07	21	15					
		MN ₃	09	50	21	21					
		ME ₂	10	20	21		23				
		ME ₃	16	07	20		24				
		MN _{4, ME₄}	18	53	20	19	34				
		ME ₅	21	03	19		19				
		MN ₅	25	16	19	10					
		5	07	15							

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No. 10 (continued)

1928, October.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N "	A _E "	A _Z "		
148	1928 Oct. 9	i?	14	48	53	3				Preliminaries obscured by heavy microseisms.	
		iS		45	51	6	4	3			
				46	00	8	6				
		eL		47	.1	19					
		MN ₁		48	46	17	9				
		ME ₁		49	12	17		4			
		ME ₂		51	54	13		2			
		MN ₂		52	05	13	3				
149	" 10	F	15	20						Wellington e 45 48 eL 49 21. Melbourne i 47 32	
		e?	20	43	33	3					
		e?		44	17	3					
		e		54	42	3					
		eL		58	.3	22					
		ME	21	02	46	13		1/2			
		MN		03	06	13	3				
150	" 12	F	21	30						U.R.S.S. stations ep., 12°N. 144°7E Manila P 41 53 S 46 13 Melbourne i 52 33	
		e	07	51	.9	4					
		e		52	.7	7					
		eL	08	11	.4	20?					
		MN ₁		15	07	20	5				
151	" 13	MN ₂		18	18	20	4			U.R.S.S. stations ep., 44°N. 146°E. Irkutsk Δ 3150 km i 7 35 58 Hukuoka Δ 4900 km. Okhotsk Sea. P 31 57	
		F	08	30							
		eP	15	24	54	3	1	1	4670		
		eS		31	09	4	2		(42.0°)		
		eSR ₁		34	25	6	2	2			
		eL		38	.2	30?					
		ME ₁		42	19	20		2			
		ME ₂		44	12	20		6			
		MN ₁		44	46	18	3				
		ME ₃		46	19	18		3			
152	" 15	MN ₂		46	35	18	3			Manila Δ 1060 km P 20 40. Pacific, SE. Coast of Mindan U.R.S.S. stations ep., 0°5S. 121°E.	
		MN ₃		49	15	16	4				
		F	16	10							
		eP	08	37	18	6	3		3230		
		eS		42	07	9	5		(29.1°)		
				42	24	19	17				
		eL		45	05	11		17			
		eL		45	.4	29?					
		MN ₁		47	36	22	64				
		MZ ₁		47	44	20			47		
		ME ₁		48	33	17		26			
		MN ₂		49	18	15	24				
		ME ₂		50	33	13		51			
		MN ₃		51	31	13	19				
		ME ₃		52	25	13		20			
ME ₄		54	11	11		12					
MN ₄		56	40	11	21						
153	" 15	F	10	00						U.R.S.S. stations ep., 29°N. 66.5°E. Tachkent i 14 22 Baku Δ 2020 km. i 14 23 29 Zi-Ka-Wei Δ 5140 P 28 13 Manila Δ 5600 e 29 09 Strasbourg ep., 25.5°N. 63°E.	
		eL	15	06	.1	22					
		ME ₁		12	42	20		4			
		MN ₁		13	42	19	9				
		ME ₂		16	10	20		7			
		MN ₂		18	16	19	13				
		ME ₃		19	26	19		18			
		MN ₃		20	43	19	14				
		ME ₄		22	24	19		10			
		F	15	45							

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No. 10 (continued)

1928, October.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
							A _N	A _E	A _Z		
			h.	m.	s.	s.	"	"	"	km.	
154	1928 Oct. 17	eP	06	20	54	3		1		2780 (25.0°)	O, 06 15 19
		eS		25	12	?					Wellington Δ 15°
		eL		27.8		23					O, 06 15 27
		MN ₁ , ME ₁		30	00	15	4	3			P 19 06
		MN ₂		32	34	15	3				Melbourne e 22 40
		ME ₂		33	10	14		3			Sverdlovsk P 34 25
		F	07	10							
155	" 17	eP	15	32	09					10,530	O, 15 18 41
		eS		43	27	8	1	1			Sucre Δ 3760 km.
		eSR ₁		49	21	9	1	1			ep., 52°S. 60°W.
		eLN		57.5		22					P 15 26 28
		eLE		57.6		22					
		ME ₁	16	03	17	19		2			Georgetown e 33 13
		MN ₁		04	43	19	3				Adelaide i 39 27
		ME ₂		08	19	19		3			Melbourne i 42 35
		MN ₂		11	10	17	4				Wellington eL 40 54
		MN ₃ , ME ₃		15	21	15	3	1			
		MN ₄		20	32	17	3				
		ME ₄		22	16	14		2			
		MN ₅		27	58	15	2				
		F	17	00							
156	" 18	e	05	01.8							Very small.
		MN		04	00	11	1				
157	" 19	F	05	20						2820 (25.4°)	
		eP	07	03	16	3	$\frac{1}{2}$	$\frac{3}{4}$			Adelaide Δ 3400 km
		eS		07	38	5		1			P 7 05 00?
		eL		10.1		19					Melbourne i 06 07
		MN ₁		12	08	13	4				Wellington IL 06 33
		ME ₁		13	21	13		1			
		MN ₂		14	11	11	2				
ME ₂		15	20	13		1					
158	" 19	F	07	50						3560 (32.0°)	
		eP	10	24	40						S hard to identify
		iP		24	41	4		+3			
		iPR ₁		25	37	6		-10			
		iPR ₂		25	58	6		-10			
		eS		29	48	9	2				
		P _c S		30	40	12	6	4			
		eL		32.3		20					
		MZ ₁		33	48	19			34		
		ME ₁		34	07	19		100			
		MN ₁		34	47	15	34				
		ME ₂		35	15	15		61			
		MN ₂		36	04	13	52				
		MN ₃		36	56	13	40				
		ME ₃		37	14	15		48			
		MN ₄		37	46	13	40				
		MZ ₂		38	24	15			21		
		ME ₄		38	42	13		57			
		ME ₅		39	45	13		42			
		MN ₅		42	08	12	26				
ME ₆		45	07	13		28					
ME ₇		47	17	13		28					
MN ₆		48	08	15	28						
F	13	00									

(Continued on next sheet.)

No. 10 (continued)

1928, October.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per	Amplitude.			Δ km.	Remarks.
							A _N	A _E	A ²		
			h.	m.	s.	s.	"	"	"		
159	1928 Oct. 21	e	16	28.8		4	2	1		Early phases obscured by micros. From 16h 35m to 16 37 complex waves on EW. Perhaps two shocks superposed. U.R.S.S. stations ep., 4°5S. 134°5E. Manila P 16 21 20 Zi-Ka-Wei Δ 6590 e 16 24 30 Melbourne Δ 22.7° P 29 08 Wellington Δ 40°2 O 23 50 P 31 47 Very small. Melbourne eL 06.5	
		e		33.2		9	3				
		eL		34.1		20					
		ME ₁		35 10		7		19			
		MN ₁		35 32		6	18				
		MN ₂		36 32		6	16				
		ME ₂		36 44		12		27			
		MN ₃ , ME ₃		37 51		8	14	18			
		ME ₄		39 10		8		19			
		MN ₄		40 10		9	13				
		MN ₅		41 19		9	18				
ME ₅		41 34		1.4		1.4					
F		17 25									
160	" 21	eL?	21	06.1							
		ME		08 10							
		F	21	20							
161	" 22	i	05	52x10		4		2			
		eL		58.8		19					
		ME ₁	06	01 04		11		2		Wellington i 50 50	
		MN ₁		02 38		11	3			Melbourne i 57 12	
		ME ₂		03 40		13		1			
		MN ₂		04 30		11	2				
		F	06	30							
162	" 23	i?	18	09 10		4		4			
		i		15 10		8	6			Slight traces only.	

 WM. O'LEARY S.J.
 Director.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S. $\lambda = 151^{\circ} 9' 30''$ E. $h = 41.9$ m. Foundation: Triassic sandstone.

INSTRUMENTS:

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

	V	T _c	s:1	$\frac{P}{T_0^2}$
A _N (1)	204	9.6	6.0	0.02
A _N (3)	112	8.3	5.0	0.03
A _E (1)	240	10.9	5.5	0.02
A _E (3)	86	11.1	5.0	0.04
A _Z (2)	86	5.1	3.0	0.10

No.	Date	Phase	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N μ	A _E μ	A _Z μ		
163	1928 Nov. 6	iP	04	09	48	6	-4	-7	+10	2000	Condensation. Δ from L-P.S hard to identify. Azimuth (computed from iP): N. 59° 45' E. hence, computed: φ, 24° S. λ, 168° E. (approx.) O, 04 05 35 USSR. stations ep., 21°S. 167°E. Wellington ep., 20°S. 167°E. Δ 21.9° O, 04 04 41 P 09 45 Melbourne Δ 3120 P 10 46 Adelaide Δ 3350 P 11 17 Manila Δ 6350 P 14 50 Zi-Ka-Wei Δ 7610 P 16 01
		PR ₁	09	55		5	8	13	4	(18.0°)	
		PR ₂	10	00		5	18	14			
		PR ₃	10	06		6	13	37	10		
		mN	10	21		8	28				
		mE	10	31		8		47			
		mNE	10	39		8	33	43			
		mZ	11	14		7			7		
		mNE	11	58		6	43	33			
		mE	12	49		6		31			
		iSR ₂	13	53		5	-14	-27			
		mNEZ	14	01		5	54	105	-9		
		P ₀ P	14	25		9	58	75	42		
		mNE	14	37		10	88	68			
		eL _Z	14.	8		30					
		mE	15	01		9		57			
		mN	15	29		9	85				
		mE	15	41		11		62			
		mN	15	51		8	86				
		mE	16	25		20		170			
		MN ₁	16	29		18	265				
MZ ₁	16	41		15			63				
MN ₂	16	46		18	295						
ME ₁	17	05		18		220					
MZ ₂	17	19		15			45				
ME ₂	17	23		16		220					
ME ₃	17	39		16		225					
MN ₃	17	47		15	180						
ME ₄	18	15		15		94					
MN ₄	20	23		12	71						
ME ₅	21	50		14		71					
ME ₆	23	00		12		58					
MN ₅	24	00		12	59						
ME ₇	25	00		11		42					
ME ₈	27	14		12		42					
MN ₆	28	02		12	47						
MN ₇	29	13		12	63						
MN ₈	30	37		12	63						
ME ₉	31	07		12		51					
MN ₉	31	56		12	40						
ME ₁₀	32	56		12		38					
MN ₁₀	36	31		10	25						
ME ₁₁	37	33		10		31					
MN ₁₁	40	12		11	23						
F	06	55									

(Continued on next sheet.)

No. 11 (continued)

1928, November.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A _N "	A _E "	A _Z "		
164	1928 Nov. 9	i(P?)	11	09	35	4	3		2560?	Wellington L 11 30	
		i(S?)		13	37	6	6				
		eL		16	.6	22					
		iE		17	07	4		7			
		ME		18	00	19		6			
		MN		18	25	20	8				
165	" 10	F	11	40					2530 (22.8°)	0, 12 27 07 Wellington Δ 21.6° 0 12 27 27 P 32 27 Suva Δ 12°. Probably same ep. as Nov. 6. Manila e 12 37 51 Adelaide Δ 3500 iS 38 48 Batavia e 38 43 Melbourne P 43 18 S 48 02 USSR. stations ep. 21°S. 167°E.	
		iP	12	32	18	4	+1	+1½			
		PR ₁		32	46	8		4			
		PR ₂		32	59	7	3	2			
		IR ₃		33	05	7	5	5			
		iS		36	18	2	+27				
		mNE		36	32	8	22	12			
		i		37	39	38		-9			
		mE		38	05	15		12			
		eL		38	15	30					
		MN ₁		38	37	15	13				
		ME ₁		39	45	15		15			
ME ₂		40	22	15		17					
MN ₂		40	48	13	13						
166	" 10	F	13	45					Wellington i 44 14 L 47 32 Melbourne e 45 45 L 50 35		
		e	21	38	54	6		2			
		e		44	00	6		4			
		eL		44	05	6	2				
		ME		46	.6	17		2			
		MN		48	18	15					
167	" 11	F	22	15					Batavia i 22 50 14 Zi-Ka-Wei P 54 12 Δ 9230 km. Hong Kong P 02 40		
		e	23	02	13	9	1				
		eL		21	.3	21					
		MN		24	22	11	1				
168	" 15	ME		26	12	15		1	4510 (40?6)	Amboina P 2 34.1 Manila P 36 23 S 40 45 Hong Kong P 38 06 Batavia i 38 07 S 43 01 Δ 3340 km. Adelaide i 7 56 45 eL 59 50 M 8 01 35	
		F	00	05							
		eP	02	39	59	3		1½			
		iSN		46	04	7	5				
		iSE		46	07	7		4			
		eL		55	.1	19					
		MN		56	51	13	3				
		ME		57	13	12		1			
169	" 15	F	03	13					Adelaide i 7 56 45 eL 59 50 M 8 01 35		
		e	07	50	53	5	2				
		eL	08	02	.2	16					
		MN		03	20	15	2				
170	" 17	F	08	15					Melbourne i 32 52 Wellington e 34 24 Adelaide eL 36 17 Perth P 43 00		
		e	10	29	.1	4					
		eL		33	.2	16		2			
		MN		34	55	12	1				
171	" 18	ME		36	45	8			Adelaide Δ 2100 km P 6 01 08 Melbourne i 01 35 Perth P 03 30		
		F	10	50							
		e	06	02	.4						
		i		06	27	3	2				
		eL		09	.4	18					
		MN		12	05	9		3			
F		13	35	7	3						
		06	50								

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No. 11 (continued)

1928, November.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per	Amplitude.			Δ km.	Remarks.
							A _N	A _E	A _Z		
			h.	m.	s.	s.	"	"	"		
172	1928 Nov. 19	e?	15	34.1							Obscured by heavy microseisms.
		e		36.2		8					Wellington ep.
		MN		40	16		1				20°S. 168°E. approx.
		F	16	00							O 15 27 27 P 32 21 Melbourne Δ 3330 P 33 29
173	" 20	eP?	20	50	10				12,100		(109°)
		eP'?		53	49	4		2			La Plata Δ 1725 km
		ePR ₁		54	35	5		1			Pcia de Antofag- asta, Chile.
		e		55	09	?					P 20 38.78
		iScPcPcS		01	20	8	4	2			J.S.A. epicentre;
		ePS		03	49	12	4	2			23.1°S. 75.4°W.
		eSR ₁		09	47	14	4	3			U.S.C. & G.S. ep.
		mNE		10	33	26	18	9			23°S. 73°W.
		eSR ₂		14	09	20		5			New Orleans Δ 7700
		eL		21.2		34					P 20 43 40
		mNE		22	35	34	18	15			Georgetown Δ 7000
		MN ₁ , ME ₁		27	36	30	31	23			P 25 28
		MN ₂		34	53	20	6				Ottawa Δ 7550
		ME ₂		34	59	22		8			O 35 09
		ME ₃		48	39	18		2			P 46 06
		MN ₃		53	30	18	5				Cartuja Δ 9000
		MN ₄ SW ₂	22	01	23	18	3				P 47 50
		EW ₂		47.3		32					Wellington Δ 81.9°
		MN		49	50	22	4				O 35 59
		ME ₁		52	17	24		4			P 48 29
		ME ₂		59	29	20		3			Manila iP' 55 41.
		F	23	20					10,000		P obscured by heavy microseisms.
174	" 22	i(P?)	08	44	06	5	3				La Plata Δ 4520
		eS		54	43	6	3	2			O 08 30.94
		iS		54	48	6		6			P 38.93
		ScPcPcS		55	00	6		7			Perth P 43 00
		SR ₁	09	00	50	14	6	4			S 53 00
		SR ₃		07	26	28		40			Wellington Δ 84.4°
		e		09.7		40					P? 43 27
		eL		13.2		38					iS 53 55
		ME ₁		15	29	30		20			Melbourne Δ 6670
		MN ₁		16	09	28	58				P 43 35
		MN ₂ , ME ₂		20	04	18	18	18			Batavia i 49 19
		ME ₃		23	03	16		11			Adelaide Δ 7300?
		ME ₄		26	21	16		7			S 54 00
		MN ₃		26	54	16	21				
		MN ₄		32	08	16	12				
		F	10	50							
175	" 23	e	08	33.6							Masked by micros.
		ME		38	47	16		2			Amboina Δ 330 km.
		MN		40	23	16	2				P 8 14 19
		F	08	50							
176	" 25	e?	20	44.1							Very small.
		e		48.4							Adelaide i 43 20
		F	21	02							Melbourne i 50 05

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No. 11 (continued)

1928, November.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per s.	Amplitude.			Δ km.	Remarks.	
			h.	m.	s.		A_N μ	A_E μ	A^2 μ			
177	1928 Nov. 28	iP	10	50	28	3	-1	+2		4080 (36.7°)	Azimuth computed from iP): N. 55° W. hence, computed: ϕ , 9.5° S. λ , 121° E. 0 10 43 04 Amboina Δ 940 km. S. Celebes? P 10 45 25 Malabar i 46 30 Batavia P 46 41 Manila P 48 20 Melbourne Δ 3860 P 49 20 Hong Kong 49 34 Adelaide P 49 38 Δ 3050 Phu Lien Δ 3470 P 49 43 Zi-Ka-Wei Δ 4330 P 50 36 Wellington epi., 8° S. 118° E. (approx.) 0 10 43c07 P 53.04 Δ 57.7°	
		iNE		50	30	3	+4	-5				
		iZ		50	33	3			+4			
		iZ		50	37	3			+8			
		mNE		50	42	7	5	7				
		PR ₁		51	23	10	4	6				
		PR ₂		52	08	10	4	4				
		PR ₃		52	20	10	6	6				
		iS		56	06	6	-11	+11				
		mNE		56	26	11	14	34				
		PcS		56	36	11		46				
		SR ₁		58	36	16	24	31				
		SR ₂		59	16	13	31	31				
		SR ₃		59	42	10	18	23				
		mN	11	00	00	9	24					
		mE		00	10	9		28				
		eLZ		01	4	21						
		MN ₁		04	26	20	370					
		ME ₁		04	36	20		240				
		MZ ₁		05	12	20			51			
		ME ₂		07	10	20		410				
		MN ₂ , MZ ₂		07	35	18	385		54			
		ME ₃		07	48	18		340				
		MN ₃		08	32	16	200					
		ME ₄		09	38	14		120				
		MN ₄		10	36	14	130					
		MZ ₃		10	51	14			23			
		ME ₅		11	20	12		77				
		MN ₅		11	40	12	100					
		MN ₆		14	30	12	49					
ME ₆		15	42	12		83						
ME ₇		19	08	12		32						
MN ₇		19	30	14	56							
eW ₂	13	33.1	16									
F	13	45										
eP?	14	02	42	6	2	2		2900?				
eS?		07	10	8		1						
e		09	42	8	1							
eL		12.0	15									
MN ₁		13	22	14	5							
ME ₂		14	00	16		2						
MN ₂		14	15	14	5							
ME ₂		18	26	14		1						
F	14	50										
eP	15	49	42	4		2		2960				
eS		53	54	8		2		(24.1°)				
eL		56.4	20									
MN ₁		57	20	18	9							
ME ₁		59	00	18		13						
MN ₂		59	10	16	16							
ME ₂	16	00	36	17		16						
MN ₃		01	21	14	6							
ME ₃		01	51	16		23						
F	17	10										

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No. 11 (continued)

1928, November.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time				Per	Amplitude.			Δ km.	Remarks.
			(Greenwich)					A_H	A_E	A^2		
			h.	m.	s.	s.	"	"	"			
180	1928 Nov. 29	eP	18	06	08	6		2		3390 (30.5°)	Wellington Δ 18°4 O 17 59 28 P 18 03 48 Suva Δ 13° Approx. ep. 25°S.171°W. Melbourne Δ 4090 P 06 50 Adelaide eS 09 24 Perth Pca 11 50	
		PR ₁		06	58		8		4			
		PR ₂		07	11		8	3	8			
		iS		11	06		9		9			
		mE		11	35		11		13			
		eL		13	.6		22					
		ME ₁		15	54		18		96			
		MN ₁		16	08		16	84				
		ME ₂		16	58		15		105			
		MN ₂		17	18		14	53				
		MN ₃		18	14		14	53				
		ME ₃		18	46		14		120			
		ME ₄		20	26		14		75			
		MN ₄		21	51		14	40				
		ME ₅		22	34		14		85			
		MN ₅		26	08		13	30				
		ME ₆		26	42		14		42			
MN ₆		27	21		12	26						
F			20	05								
181	" 29	e		22	56.3							
		eL			58.1	20					Melbourne i 58 12	
		MN ₁ , ME ₁		23	00 46	14	3	1			Adelaide	
		ME ₂			03 42	15		1			e 23 00 05	
		MN ₂			04 06	12	3					
182	" 29	F	lost in No. 182.									
		e		23	15.6	4						
		cS?		16	11	12?					Wellington Δ 21°2	
		mNE		16	45	6	1	3			O 23 07 56 P 12 51	
		eL		20	.7	17						
		ME ₁		22	28	20		21				
		MN ₁		22	42	18	12				Perth Pca 19 00	
		ME ₂		24	10	17		21				
		MN ₂		25	45	13	6					
		MN ₃		26	41	12	9					
ME ₃		28	08	13		10						
F			00	40								

WM. O'LEARY S.J.
Director.

No. 12

1928, December.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ E.

 $h = 41.9$ m.

Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW.)
2. Weichert 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 ₀	s : 1	$\frac{F}{T_0^2}$
A _N (1)	244	11.7	7.1	0.02
(3)	111	8.3	4.2	0.04
A _E (1)	237	11.2	5.1	0.02
(3)	95	12.2	5.6	0.02
A _Z (2)	87	5.1	3.0	0.09

No.	Date	Phase	Time		Per.	Amplitude.			Δ km.	Remarks.
			(Greenwich)			A _N	A _E	A _Z		
			h.	m.	s.	μ	μ	μ		
183	1928 Dec. 1	eP	04	20	13		1		9100 (81.9)	La Plata Δ 1310
		mNE	24	26	8	2	2			Destructive in Central Chile (Talaca)
		iS	30	33	6	-6	46			O 04 05.9
		mNE	30	56	8	24	19			P 08.9
		i	31	48	10		28			Pa Paz Δ 2180
		mNE	33	54	20	22	26			P 10 29
		mNE	34	15	20	26	30			J.S.A. epicentre
		mNE	34	56	20	23	19			33° S. 74.5° W.
		eSR ₁	37	16	26	19	25			U.S.C.&.G.S. ep.
		mE	38	32	30		120			36° S. 74° W.
		mE	39	03	30		170			Georgetown Δ 7990
		eSR ₂	42	14	18	7	8			P 04 17 46
		mNE	42	43	24	19	26			St. Louis Δ 8120
		eSR ₃	45	06	16		11			P 17 57
		mNE	45	39	16	6	8			Ottawa Δ 8980
		e	48	06	40					O 06 06
		mNE	48	30	40	130	280			P 18 18
		mE	49	12	40		450			Wellington Δ 81.2°
		eL	52	.1	30					O 06 06
		mNE	52	47	30	75	110			P 18 32
		mNE	53	26	42	100	210			Kew Δ 12,100
		ME ₁	56	45	20		130			ep. 37°S. 73°W.
		MN ₁	57	05	20	61				P 20 24
		MN ₂	05 00	00	18	46				Strasbourg
		ME ₂	00	51	18		120			Δ 12,500
		ME ₃	02	46	16		65			P 20 34
		MN ₃	03	46	16	23				Manila Δ 17,000
		ME ₄	04	18	16		68			eP' 26 10
		MN ₄	06	08	17	20				Zi-Ka-Wei Δ 19,000
		ME ₅	09	20	16		45			P 26 26
		MN ₅	11	05	18	25				
		ME ₆	14	38	16		43			
		MN ₆	15	26	16	17				
		ME ₇	17	41	15		39			
		ME ₈	24	14	16		25			
		MN ₇	24	33	16	14				
		eW ₂	06 19	.2	27					W ₂ series.
		ME ₁	23	10	20		29			
		MN ₁	27	20	20	13				
		ME ₂	31	12	20		12			
		MN ₂	32	09	22	16				
		MN _{3, ME}	38	44	20	24	26			
		ME ₄	43	11	20		24			
		MN ₄	44	00	20	28				
		eW ₃	08 02	2	20					

No. 12 (continued)

1928, December.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per s.	Amplitude.			Δ km.	Remarks.	
							A _N μ	A _E μ	A _Z μ			
184	1928 Dec. 2	e	04	36	53	5					Aftershock of 183.	
		e		37	10	5						
		ePR ₁ ?		38	32	?						
		iScPcS		44	43	7	-2	+1				La Plata Δ 1330
		iScPcPcS		45	15	6	-2	+1				Central Chile.
		PS		47	24	16	2	2				O 04 20.29
		PPPS		48	23	16	1	1				P 23.25
		PcPcPcP		50	12	11	1	1				Pa Paz Δ 2190
		SR ₁		53	00	14	2					P 24 54
		PPSS	53	11	48	27	20		5			Ottawa Δ 8920
		mE		54	02	16			4			O 20 26
		SR ₃	05	00	40	14		2				P 32 35
		eL		02.	9	38						Wellington Δ 78.9°
		MN ₁ , ME ₁		11	10	17	17	31				O 20 42
		MN ₂ , ME ₂		14	08	17	14	32				P 32 54
		MN ₃ , ME ₃		18	10	15	6	8				Melbourne Δ 86.6°
		ME ₄		23	07	14		8				P 34 00
		MN ₄		24	42	15	5		5			Zi-Ka-Wei Δ 19000?
		ME ₅		26	25	15			5			P' 40 51
		MN ₅		29	17	15	4					
		eW ₂	06	34.	2	22						W ₂ series.
		ME ₁		43	24	16		1				
		MN ₁		46	42	16	1					
		MN ₂		52	46	17	1					
		ME ₂		52	52	16		1				
		MN ₃		56	42	17	2					
		F	07	55								
		185	" 3	e	17	05	22	4				
eL				09.	4	20					Hukuoka Δ 185 km.	
MN				08	38	16	1				P 16 33 18	
186	" 5	F	17	20							Zi-Ka-Wei Δ 1080	
		e?	03	16.	3						P 34 09	
		ME		23	16	12		1				
187	" 7	MN		24	15	12	1					
		F	17	20								
		eP	09	20	42	4	1	2½		4000 (36.0°)	O, 09 13 26	
PR ₁		22	06	6	4	3						
eS		26	16	4	4	5				Manila P 9 19 10		
PS		26	28	8	7	5				Malabar Δ 2900 km.		
PcS		26	54	12	8	8				P 9 19 40		
SR ₁		28	36	10	8	6				Batavia Δ 3210		
SR ₂		29	22	6	5	6				P 19 43		
SR ₃		29	56	8	7	10				Adelaide Δ 3250		
eL		31.	1	20?						P 20 20		
ME ₁		32	28	16		21				Hong Kong		
MZ ₁		32	39	4			8			P 20 25		
MN ₁		32	40	13	84					Perth P 20 41		
ME ₂		33	06	16		340±				Melbourne Δ 3630		
MN ₂		33	10	12	88					P 21 00		
ME ₃		33	42	16		200				Zi-Ka-Wei Δ 4150		
MN ₃		33	52	9	62					e 21 12		
MN ₄		34	58	9	68					Wellington Δ 51.3°		
MZ ₂		35	09	6				9		O 9 14 10		
MN ₅ , ME ₄		36	01	10	71	110				P 23 25		
MZ ₃		36	14	10				58		ep. 3°S. 126°E.		
ME ₅		36	53	9		120						
MN ₆		37	05	9	61							
MZ ₄		37	10	10				43				
ME ₆		38	52	12		110						

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No. 12 (continued)

1928, December.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per s.	Amplitude.			Δ km.	Remarks.
			h.	m.	s.		A_N #	A_E #	A_Z #		
187 (cont.)	1928 Dec. 7	MN ₇	09	39	44	14	83				
		MZ ₅		39	51	10					
		ME ₇		41	03	9		105		29	
		ME ₈		42	28	11		63			
		MN ₈		43	52	14	35				
188	" 8	F	11	40							
		e	07	11.9							
		eL		12.1		16?					Melbourne
		MN		16 00		10	$\frac{1}{2}$				i 7 15 08
189	" 8	ME		16 12		12		1			L 16 00
		F	07	30							
		e	10	53.1							Melbourne L 58 00
190	" 8	eL		57.1		14					Adelaide
		ME		58 18		12		1			e(L) 11 00 10
		e	16	58 45							
191	" 8	eS	17	03 24		10	2				Melbourne
		eL		06.6		20					I 12 04 36
		ME ₁		08 12		12		2			L 07 00
		MN		09 19		13	2				Adelaide
		ME ₂		09 30		10		2			i(S) 04 41
		F	17	40							eL 08 45?
192	" 9	e	18	16.2							
		eL		17.2		20					
		MN ₁		18 39		14	2				
		ME		20 42		14	$\frac{1}{2}$	1			
		MN ₂		21 14		12	1				
		F	18	40							
193	" 9	eP	00	03 06		8	2	1		2930	0 23 57 16
		eS		07 35		7	2	2		(26.4°)	
		iS		07 39		8	+17	-9			
		mNE		07 51		11	15	17			Melbourne Δ 3610
		SR ₁		08 45		12	5	16			P 00 04 00
		SR ₃		09 02		12	5	15			Adelaide Δ 3200
		eL		09.4		?					P 04 05
		MN ₁		10 49		20	16				Wellington Δ 26.3°
		MN ₂		11 27		18	31				O 23 58 38
		ME ₁		11 44		16		13			P 00 04 29
		ME ₂		12 40		14		89			Manila P 05 43
		ME ₃		13 35		10		78			Perth P 06 00
		MN ₃		14 24		10	24				Batavia i 06 42
		ME ₄		14 55		10		48			
		MN ₄ , ME ₅		16 10		10	16	13			
F	02	10									
193	" 9	eP	03	55 34		2		1		2020	0 03 51 19
		eS		58 55		4	2	2		(18.2°)	
		mN		59 08		6	4				Wellington says
		eL		59.7		18					felt extensively in
		MN ₁	04	00 53		14	7				both Is. of N.Zea-
		ME ₁		00 58		14		3			land. Max. force R-F6
		MN ₂		01 58		12	5				Epi. 40°S. 174°E.
		ME ₂		02 15		12		4			O 03 51 09
		ME ₃		05 24		12		3			P 51 29
		MN ₃		07 01		11	3				Melbourne Δ 22.6°
F	05	05							P 55 52		

(Continued on next sheet.)

No. 12 (continued)

1928, December.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)				Per	Amplitude.			Δ km.	Remarks.
			h.	m.	s.	s.		A _N "	A _R "	A ² "		
194	1928 Dec. 9	eP	05	10	54	7	1			3000 (27.0°)	0 05 04 57 Melbourne Δ 3660 P 5 11 38 Manila P 13 37 Wellington iPP? 13 59 Batavia i 14 32 Perth Pca 19 45	
		mN	11	07		10	6					
		PR ₁	11	29		3	4					
		PR ₂	11	37		8	4					
		mN	12	54		8	8					
		e	15	10		6	4		3			
		i	15	18		6	8					
		iS	15	28		8	28		12			
		mNE	15	42		10	22		28			
		SR ₁	16	48		10	12		21			
		SR ₂	17	12		10	21		18			
		SR ₃	17	24		10	8		16			
		eL	19.1			16?						
		ME ₁	20	22		12			71			
		ME ₂	21	20		10	22		110			
		MN ₁	22	08		10	28					
		ME ₃	22	20		10			81			
		ME ₄	23	18		11			50			
		MN ₂	23	56		10	20					
		ME ₅	25	34		8			56			
		MN ₃	25	40		8	33					
		ME ₆	27	08		8			39			
		MN ₄	27	24		8	22					
		MN ₅ , ME ₇	30	27		9	32		105			
		MN ₆	31	28		9	40					
		ME ₈	31	59		8			76			
		MN ₇	32	52		8	37					
MN ₈	34	18		8	26							
MN ₉	36	13		8	26							
ME ₉	36	39		8			38					
F	07	50										
195	" 9	eP	18	15	58	6	2	1	2940 (26.5°)	0 18 10 07 Melbourne Δ 31.3° P 18 16 48 Adelaide Δ 3100 km. P 17 09 Wellington Δ 33.4° P 17b33 approx. epicentre 10° S. 157° E. Manila P 18 39 Batavia e 18 20 0 Hong Kong M 34 30		
		iP	16	01		6	4					
		iS	20	28		8	18				2	
		mNE	20	39		8	30				25	
		mNE	20	48		8	38				21	
		mNE	20	55		8	30				19	
		mE	22	37		7					15	
		eL	24.1			16						
		ME ₁	25	24		14					36	
		ME ₂	26	08		12					80	
		ME ₃	27	42		10					79	
		ME ₄	29	16		10					37	
ME ₅	31	02		8			25					
ME ₆	33	06		8			21					
196	" 10	F	21	00								
		e	04	40	12							
		e		40	52	10	1					
		e		52	10	6	1		1			
		eL	05	06.1		26						
197	" 12	MN	08	42		18	2					
		ME	10	18		17			2			
		F	05	45								
		e	20	08	15							
197	" 12	eL	16.4		20							
		ME	18	04		14			2			
		MN	18	14		14	1					
F	lost in No. 108.											

(Continued on next sheet.)

No. 12 (continued)

1928, December.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per s.	Amplitude.			Δ km.	Remarks.	
			h.	m.	s.		A_N μ	A_E μ	A^Z μ			
198	1928 Dec. 12	iP	20	25	40	4		-4		3420 (30.8°)	0 20 19 03	
		PR ₁		26	32	7	3	10				
		PR ₂		26	46	7		19				
		iS		30	40	9		-9				
		mNE		31	08	11	8	16				
		SR ₁		32	28	10	6	9				
		SR ₂		32	57	10		14				
		eL		33	6	24						
		MZ ₁		34	41	16			31			
		MN ₁		34	49	16	61					
		ME ₁		35	08	18		150				
		MN ₂		35	44	15	98					
		ME ₂		36	20	16		150				
		MZ ₂		36	33	14			60			
		MN ₃ , ME ₃		37	38	14	37	140				
		MZ ₃		38	07	14			61			
		ME ₄		39	21	14		130				
		MZ ₄		39	36	14			39			
		ME ₅		40	06	14		130				
		MN ₄		42	01	12	58					
MZ ₅		43	31	13			25					
MN ₅		43	36	12	30							
ME ₆		43	45	14		78						
ME ₇		45	07	14		82						
MN ₆		45	58	12	17							
ME ₈		52	40	12		35						
F		00	00									
199	" 13	e	03	35	27							
		eL		38	4	15?					Melbourne	
		ME		40	45	11		1			eL 3 40.7	
		MN		42	00	11	1					
200	" 14	F	04	00								
		e	14	18	31	4		1				
		e		18	46	5		2				Wellington Δ 6.2°
		eL		25	3	27						0 14 16 03
		ME ₁		26	58	21		3				P 17 38
		MN		27	08	13	2					Melbourne
ME ₂		29	19	17		2				i 19 50		
201	" 14	F	14	50								
		e	23	23	8	6						
		eL		30	2	25						Melbourne
		MN ₁		32	18	16	3					eL 23 24 05
		ME ₁		33	17	16		7				Wellington
		ME ₂		35	13	16		6				eL 25 03
202	" 17	MN ₂		35	42	14	2					
		F	00	10								
		e	04	06	20	6		2				
		eL		08	9	17						Wellington i 01 27
202	" 17	MN		10	52	15	2				Melbourne i 03 00	
		ME		11	54	15		2			Adelaide e 12 27	
		F	04	35								
203	" 18	e	22	05	45	2		2				
		eL		06	1	13						Very small.
		ME		06	49	10		1				Melbourne
		MN		07	49	11	1					i 21 40 32
		F	22	20								

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