Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

1912 July-Dec.

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	178	8.0	>20	0.02
A_E (1)	194	6.5	4.3	0.02
A_Z (2)	74	3.5	2.5	0.08

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912			h. m. s.	s.	μ	μ	μ	km.	
1	Jan. 2	II	eP?	6 20.0	3					Short wave-lengths.
			e	21.2	5	8	-			
				23.0	7	16	8	21		
			MN	25 23	8	16				
			ME	26 11	8		11			
			MZ	26 50	9			8		
			F	7 50						
2	" 4	I_u	eP	15 59.6	4	1¼	-		9600	Aleutian Islands.
			iS	16 10 15	7	-	4			
			i	10 37	7	6	-			
			PS?	11 51	8	-	4½			
			eL	22.8	16					
			MN	31 48	19	13				
			ME	34 15	19		12			
				18 20 58	16	2¼	-			
			F	18 30						
3	" 5	I	e(S?)	23 35.4	7	6	2			P lost in changing papers.
	6		M	38.8	8	7	4½			
			F	0 10						
4	" 6	I	e	17 55.9						
			MN	59 53	12	2¾				
			ME	18 00 14	16		2¾			
			F	18 10						
5	" 8	I	eP	22 44.5						
				45 06	4	2¾	2¾			
			M	47 38	10	5	1			
			F	23 00						
6	" 17	I_v	iP	20 10 05	½				340	Felt at Cooma, Bega, Eden, Nimitybelle and other towns, (III-IV F.M.), with well-marked sound-phenomena in some cases. Epicentre probably situated in steeply-shelving sea-floor, somewhat East of Bega.
				10 11	4	3½				
				10 20	4		3			
			S	10 42	5	¾	3½			
			F	20 14						

At 20h 10m 8s, waves of 4s. period appeared, on which the shorter waves were superposed.

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_Z				

1

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912			h. m. s.	s.	μ	μ	μ	km.	
7	Jan. 18	I	e	23 13.1						
			ME	14 56	11		1			
			MN	17 42	8	1½				
			F	23 25						
8	" 20	II_r	eP	4 05.5					3000	Chronograph deranged on Z.
				6.5	13	23	1¾			
			iS	10 14	10	-20	+8			
			PS	10 40	10	56	11			
			eL	15.3	16					
			R	17.1	14	53	125			
			MZ_1	?	15			24		
			MZ_2	?	10			20		
			F	5 52						
9	" 20	I_r	eP	8 27.5					2900	Probably a second shock of No 8.
			eS	32.1						
			PS?	32.4	8	4	-			
			eL	36.3	18					
			ME	38 49	14		16			
			MN	42 14	12	6				
			F	9 10						
10	" 20	I	e	9 33.3						
			i(S?)	35 54	5	-	3			
			F	9 50						
	" 21	I	e	19 41.8						
			MN	44 49	14	7				
			ME	49 58	12		4½			
			F	20 10						
12	" 28	I	e(P?)	1 29.4						
			S?	32 31						
			e(L?)	34.8	9					
			MN	39 35	10	3				
			ME	43 05	9		3½			
			F	2 20						
13	" 31	I_u	e(S?)	20 38.1	L0?	-	3		12000	Alaska.
			$e(SR_1?)$	45.5	12?	-	4½			
			e(L?)	21 00.5	30					
			MN	8 38	20	14				
			ME	21 38	16		11			
			F	22 25						

E. F. Pigot S.J.

No 2 February 1 to 29 19 12

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
$A_N(1)$	173	8.0	20	0.02
$A_E(1)$	194	6.5	3.7	0.03
$A_Z(2)$	74	3.5	2.4	0.08

2

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912			h. m. s.	s.	μ	μ	μ	km.	
14	Feb. 1	I_r	eP	20 37.1	3				1860	
			iS	40 17	4	3½	-			
			eL	42.5	6					
			ME	43 23	7		2			
			MN	46 26	6	1				
			F	21 25						
15	" 12	I	e(S?)	23 25.4						
	13		eL	29.6	18					
			ME	31 48	11		10			
			MN_1	32 44	12	4				
			MN_2	35 52	12	5				
			F	0 10						
16	" 16	II_r	eP	9 32.6					2100	Friction on N.S. from 7h 44m, to 11h 12m.
			eS	36.1	6					
			eL	38.0	12					
			ME_1	43 26	12		36			
			ME_2	45 24	12		41			
			ME_3	48 37	8		14			
			ME_4	52 17	9		21			
			F	11 55						
17	" 17	I	e	0 49.2						
			e(L?)	52.8	12					
			MN	1 04 04	9	1				
			ME	4 36	9		¾			
			F	1 35						
18	" 18	I	e	4 25.8	12		1½			
			e	33.0	12		1½			
			MN	48 43	12	1½				
			F	5 05						
19	" 25	I_r	iP	2 45 55	5	-	2¼		3040	
			eS	50.7	10	5	11			
				52 33	10	19	3½			
			eL	53.1	?					
			ME	53 35	8		4½			
			MN	54 19	8	5				
			F	4 05						
20	" 25	I	e	6 34.6	12?					
			e	38.2	14	11	8			
			F	7 05						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_Z				

2

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912			h. m. s.	s.	μ	μ	μ	km.	
21	Feb. 25	I_r	cP	8 54.7	3				2750	
			eS	59.1	7	1¼	1¼			
			eL	9 02.4	15?					
			ME	4 36	14		6			
			MN	7 15	12	4				
			F	9 40						
22	" 29	I_r	eP	1 04.6	4	-	1		2600	
			eS	8.8	7	2	2½			
			eL	11.1	16					
			ME	13 03	11		7			
			MN	14 04	12	8				
			F	2 15						
3	" 29	I_r	iP	3 19 10	4	-6	-8	+6	2400	Azim. N. 55.7 E.
			iPR_1	20 10	5	6	7			Lat. 20½° S.
			iS	23 07	6	-19	+11			
			PS	23 44	7	7	5			Long. 170° E.
			eL	26.5	15					
			LE	27 14	14		8			
			MN	27 55	12	4				
			F	4 15						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :
1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
$A_N(1)$	168	8.0	>20	0.02
$A_E(1)$	194	6.5	3.6	0.03
$A_Z(2)$	73	3.5	2.4	0.08

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912			h. m. s.	s.	μ	μ	μ	km.	
24	Mar. 11	I	e	9 49.9						Friction on N.S.
			e	52.6						
			e	53.9	4		3			
			eL	54.6	12					
			ME	55 40	9		4			
			F	10 10						
25	" 11	II	e(P?)	12 17.5						
			e	20.4	5		2			
			e	21.4	5		6			
				21.8	5	14	19			
			eL	22.3	12					
			ME	22 48	11		46			
			MN	24 24	11	47				
			F	13 25						
26	" 11	I	e	12 44.5						
				44 38	4		3			
			ME	45 33	12		6			F. lost in N°25.
27	" 13	I_r	eP	19 15.7					3240	
			eS	20,7	6		2			
			eL	23.4	12					
			ME	24 40	8		5			
			F	20 30						
28	" 16	I	eS	13 21.7	5		¼			
			eL	31 50	17					
			ME	38 47	13		5			
			F	15 40						
29	" 16	I	e?	14 57.9						
			e	15 08.5						
			ME	10 34	18		4			
			F	15 40						
30	" 21	I	e(P?)	15 00.9	3					
			S?	6 44	7	2				
			M	13.9	4	3	3¼			
			F	15 25						
31	" 25	I_r	iP	4 54 05	3	-5½	-5½	+13	2260	Azim. N. 45° E.
			PR_1	54 59	5	4½	13	3½		
			iS_1	57 50	4	-11				Lat. 18½° S.
			iS	57 57	4		+11			
			SR_1	59 18	6		14	6		Long. 166° E.
			eL_1	5 01.5	17					
			ME	2 30	13		31			
			F	6 30						
32	" 26	I	eP	6 24.7	2					
			e	32.8	3		1			
				33 04	6		1½			
			e	33.8	3		½			
				39.4	4	3¼	3¾			
			F	7 00						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	164	8.0	>20	0.02
A_E (3)	178	6.3	1.6	0.04
A_E (1)	194	6.5	3.5	0.03
A_Z (3)	129	5.9	2.8	0.03
A_Z (2)	73	3.5	2.4	0.08

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912			h. m. s.	s.	μ	μ	μ	km.	
33	Apr. 14, 15	II_r	iP	22 37 46	4	-3½	-		2720	
			iS_E	42 08	6		+2½			
			iS_N	42 13	6	+10				
				42 20	6		15			
				42 34	6	13				
			eL	43.5	24					
			ME	47 00	13		74			
			MN	47 30	12	43				
			F	0 14						
34	" 15	II_r	iP	16 08 50	5	-8	-	+2	2640	Due North.
			iS	13 06	8	+19	-2½	6		
				13 16	8	38	6	6		Lat. 10½° S.
			eL	14.6	20					
			MN_1 / ME_1	17 42	13	108	220			Long. 151.°2 E.
			MN_2	18 18	12	106				
			MZ_1	18 23	12			30		
			ME_2	19 12	10		92			
			MN_3	19 57	9	49				
			ME_3	25 29	8		25			
			MN_4 / MZ_2	25 42	9	74		32		
			F	18 20						
35	" 20	I_u	eP	1 29.6	6	½	-		6000	Other phases lost in Nº 36.
			ePR_1	32.4	6	½	1			
			e(S?)	37.2	10	2	1			
			eL	41.9	?					
36	" 20	II_r	iP	1 37 58	4½	+6	½		2620	
			iS	42 13	8	-33	-7			
			eL?	45.3	26					
			MN_1	46 33	19	80				
			ME_1	48 00	15		60			
			ME_2	54 09	11		30			
			MN_2	54 38	10	31				
			MZ_2	55 10	10			20		
			F	3 20						
37	" 24	I	e	2 26.2	9	2	¾			
			eL	31.1	19					
			MN	33 20	12	7				
			ME	35 23	11		10			
			F	3 00						
38	" 27	I_r	eP?	3 54.5	3	½	½			1060? Short wave-lengths.
			S?	56.4	6	1¼	¼			
			eL?	58.1	?					
			ME	59 54	10		7			
			MN	4 00 00	10	13				
			F	5 00						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation: Triassic sandstone.

INSTRUMENTS:

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
A_N (1)	123	8.6	11.3	0.01
A_N (3)	177	6.3	1.6	0.04
A_E (1)	127	8.3	5.9	0.02
A_E (3)	129	5.9	2.8	0.03
A_Z (2)	72	3.5	2.4	0.08

5

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912									
39	May 3	II_r	iP	19 08 13	4	1¼	3		3350	Short wave-lengths.
			S	13 20	7	1	1¼			
			eL	17.4	14					
			MZ_1	19 10	6			67		
			MN_1	19 20	6	30				
			ME_1	19 33	6		45			
			MZ_2	20 30	6			64		
			MN_2	22 33	8	45				
			ME_2	23 08	8		69			
			F	21 10						
			eP	19 16.8	?					
0	" 6	I	e(SR_2)	45.3	13	-	3			Analyses from Seismograph N°3.
			eL	20 27.2	30					
			ME_1	28 45	18		6			
			ME_2	33 47	16		5			
			ME_3	40 28	18		6			
			MN	40 49	18	3				"
			F	22 35						
			eL	18 02 44	18					
	" 11	I	MN	10 27	20	5				
			ME	11 52	20		16			
			F	18 25						
			iP	0 09 37	1	-	3	1	2500	"
			eS	13.7	4	¼	4½	-		
	" 15	II_r	iS	13 52	7	+8	-	-		
			iSR_1	15 41	8	+63	-19	-		
			eL	16.0	20					
			ME_1	17 05	12		25			
			MN_1	17 19	13	65				
			MN_2	18 21	13	66				
			MZ_1	21 42	13			18		
			MN	22 09	10		13			
			ME	22 20	10	6				
			F	1 30						
				13 57.5						
				14 04.2	17					
	" 17	I		5 28	13			3½		
43			E	5 36	13	10				
			N							
			F	14 30						

(ontinued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation: Triassic sandstone.

INSTRUMENTS:

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet		
A_E				
A_Z				

6

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912									
44	May 23	II_u	eP	2 35.7					8700	Burmah.
			PR_1	38 40	6	3	-			
			eS	45.6	7					
			iS	45 43	7	+7	+3			
			SR_2	51 04	21	47	41			
				52 09	21	61	51			
			eL	58.9	38					
			ME_1	3 03 11	35		364			
			MN_1	3 15	35	337				Chronograph
			MZ	?	22			53		deranged on Z.
			MN_2	7 20	21	230				
			ME_2	8 08	21		138			
			MN_3	9 00	21	235				
			ME_3	9 49	21		198			
			C	16 36	15	51	46			
			F	5 50						
45	" 26	I_r	eP	6 38.2					2300	Analysis from
			eS	42.0	7	-	½			seismograph N°3.
			eL	43.7	19					
			M	44 07	16	16	10			
			F	7 05						
46	" 28	I	e	12 32						Chronograph de-
			MN	36	15	2¼				ranged for some
			ME	38	11		1¼			hours:
			F	12 45						time approximate.
47	" 28	I	eP	12 52	3	¾	-			
			e(S?)	13	6	-	3⅛			" " " "
			e	02	7	-	2¾			
			eL	5	23					
			ME_1	7	20		38			
			ME_2	9	16		18			
			MN_1	9	16	14				
			MN_2	16	16	14				
			ME_3	19	13		10			
			F	14 10						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. $h = 41{\cdot}9$ m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	112	7.4	6.3	0.02
A_E (3)	177	6.3	1.8	0.04
A_E (1)	121	5.6	3.4	0.01
A_Z (3)	129	5.9	2.8	0.03
A_Z (2)	71	3.5	2.4	0.08

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912			h. m. s.	s.	μ	μ	μ	km.	
48	June 2	II_r	eP	12 05.1	2	1	1	-	3600	
			eS	10.5	8	1¼	7	-		
			eL	14.7	13					
			M_1	17.5	6	51	40	12		
			MN_2 MZ_2	20 34	10	198		53		
			ME_2	21 05	10		263			
			MN_3	21 14	10	203				
			ME_3 MN_4	21 57	8	83	185			
			MZ_3	22 07	8			61		
			MZ_4	23 19	8			61		
			ME_4	23 24	7		114			
			C	25 03	8	31	54			
			F	14 05						
49	" 5	II_r	eP	11 20.7	4	1	¾		3900	
			S	26.4	8	5	7			
			SR_1	28 48	9	8	5			
				29.00	9	14	15			
			eL	31.2	19					
			M	34 28	15	193	281			
			F	12 55						
50	" 6	I	e(P?)	17 32.4	5	-	¾			
			eL	41.2	13					
			MN	42 44	10	7				
			ME	45 12	10		3			
			F	18 00						
51	" 7	I	eP	3 34.8	5	2	1½			
			e	41.8	4	1		(A)	Perhaps the P of a 2nd	
			e	46.4	8		2	(B)	" " S "	shock
			i	46 48	9	-23	-			
			eL	50.1	17					
			ME_1	52 14	14		67			
			MN_1	52 25	14	22				
			MN_2	55 53	13	19				
			ME_2	56 02	13		34			
			F	5 00						
52	" 7	I	e?	18 50.1	5					
			e(S?)	55.9	10	5	6			
			e(SR_1)	59.6	12	-3	14			
			eL	19 03.3	20					
			MN	6 17	18	37				
			ME	8 24	16		63			
			F	19 55						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N				
A_E		(See last sheet)		
A_Z				

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
53	June 8	I	eP?	7 53.3	?					Alaska.
			e	8 00.3	9	3	-			
				1 43	6	2	5			
			eL	24.8	19					
			MN_1	29 08	17	11				
			ME_1	33 04	18		12			
			ME_2	41 34	19		13			
			MN_2	44 23	18	6				
			ME_3	47 13	17		11			
			MN_3	50 37	17	5				
			C_1	9 39 09	21	10	-			
			C_2	53 28	21	10	-			
			F	10 25						
54	" 8	I_u	eP	13 23.1	6	1	-		13,000	Alaska.
			i	25 15	5½	-3	+5			
			eS	36.0	?					
			eL	52 38	22					
			MN_1	57 44	17	6				
			MN_2	14 05 00	17	6				
			F	15 00						
55	" 10	I	e	16 24.0						Alaska.
			e	30,7	5	1	-			
			e	31.7	5	4	4			
			e	38.5	9	1½	-			
			eL	54.0	30					
			MN_1	56 34	22	19				
			ME_1	17 01 38	17		11			
			MN_2	5 18	18	12				
			ME_2	11 27	17		16			
			MN_3	13 35	17	6				
			eW_2	23.5	20	8	-			
			F	18 55						
56	" 12	I	e	12 59.7						Mexico?
			e(S?)	13 11.2	10	2	3			
			e?	23.9						
			e?	24.3	12	2½				
			eL	40.3	22					
			ME_1	42 05	21		17			
			MN_1	46 28	18	6				
			ME_2	48 57	18		24			
			MN_2	54 57	15	4				
			F	14 45						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_Z				

6

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912			h. m. s.	s.	μ	μ	μ	km.	
57	Jun. 14	I_r	eP	16 02.5					3800	Banda Sea ?
			eS	8.1	8	5	3			
			SR_1	10 43	9	8	7			
			eL	13.8	17					
			M_1	15 28	14	61	87			
			M_2	18 00	10	22	43			
			MZ	18 43	10			11		
			F	17 15						
58	" 18	I_u	eP	12 01.8	5	2	¾		8700	
			PR_1	4 52	7	4½	-			
			eS	11.7	7	4¼	2½			
				12 08	7	11	16			
			SR_2	17 44	15	25	31			
			eL	23.7	26					
			MZ	38 19	18			57		
			MN_1	39 03	17	97				
			ME_1	39 53	17		42			
			MN_2	41 19	16	53				
			MN_3	46 40	14	43				
			ME_2	48 03	13		17			
			F	14 05						
59	" 20	I	e(P?)	13 56.0						
			eL	14 03.5	14					
			ME	5 40	10		6			
			MN	6 00	10	4				
			F	14 30						
60	" 22	I	eP	0 30.2	5	1	¾			
			eL	38.6	14					
			MN	40 14	12	5				
			ME	42 05	13		6			
			F	1 10						
61	" 29	I	e	2 49.2						
			eL	58.7	17					
			ME	3 00 43	13		29			
			MN	3 38	12	11				
			F	3 25						

E. F. Pigot S.J.

1912, January-June,
Corrections & Additions.

No.

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				
A_E				
A_Z				

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
21	Feb. 25		20h. NOT	8h					
23	" 29	iP_{NEZ}	03 19 10	4	+2	+2	-2	2710	Dilatation.
		m_{NEZ}	19 12	4	-7	-8	+5	(24°.4)	h 0.05?
		ipP_{NE}	20 11	4	+4	+3			H 03 14 21
		m_{NE}	20 14	4	7	4			
		iS_{NE}	23 03	7	-22	-3			
		m_{NE}	23 08	7	34	15			
		i_{NE}	23 42	7	+7	-7			
		eL	26.8	16					
		NE	27 14	14		8			
		MN	27 55	14	6				
31	Mar. 25	iP	04 54 05	3				2470	h 0.03
		m_{NEZ}	54 07	3	-7	-6	+13	(22°.2)	H 04 49 27
		ipP_{NE}	54 48	5	-6	-7			
		i_{NE}	54 57	5	-2	-5			
		iS_N	57 50	6	-13				
		$i(PcP)_{NE}$	57 58	5	-25	+11			
		m_{NE}	58 04	5	12	19			
		i_N	58 30	7	+26				
		i_N	59 10	6	+10				
		i_E	59 14	7		-21			
		eL	05 01.5	18					
		NE_1	02 30	17		56			
		MN	08 34	14	13				
		NE_2	09 07	10		9			
		F	06 30						
32	" 26	e?	06 23.9						
		e	24.7						
		iS_{NE}	29 41	4	+3	+7			
		e	32 45	4					
		MN	39 21	5	5				
		i_E	39 32	6		-4			
42	May 15	iP_{EZ}	00 09 37	(¼		-3	+1	2950	Compression.
		ipP_E	10 23	6		-7		(26°.5)	h 0.03
		i_E	10 54	8		+6			H 00 04 18
		e	13.7	7					
		iS_N	13 53	8	+8				
		i_E	14 20	8		+11			
		i_N	14 28	7	+27				
		isS_N	15 22	8	-40				
		i_{NE}	15 45	6	+70	-17			
		eL	15.9	20					

-----o0o-----

No. 7

1912, July.

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)	123	8.6	11.3	0.018
A_E (3)	174	6.3	1.8	0.043
(1)	127	8.3	5.9	0.019
A_Z (3)	127	5.9	2.8	0.034
(2)	71	5.8	2.4	0.08

7

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
62	July 3	e	05 15 15						
		eL	17.3	20					
		ME	20 39	13		7			
		MN	21 04	13	6				
		F	05 40						
63	" 7	iPPN	08 16 24	5	-4			107°ca	
		e(PPE)E	19 04						
		i(SKS)N	22 50	10	-18				
		e(S)E	24 10	11					
		eN	25 43	10					
		i(PS)N	25 51	6	+8				
		iN	26 27	6	+5				
		eSS	31 17	17					
		e	32:50 ~~35 20~~	18					
		e(SSS)E	35 50	17					
		eE	38 30	18					
		eLQE	41.8	37					
		ME1	45 19	28		90			
		eLRN	47.6	35					
		MN1	51 11	26	100				
		ME2	53 44	23		175			
		MN2	55 00	21	72				
		MN3	59 46	19	61				
		MZ	09 00 11	20			23		
		ME3	01 55	18		50			
		eLQ2?E	48.5	35					
		ME	49 51	24		24			
		eLR2	58.8	35					
		MN	10 02 56	26	23				
		F	10 50						
	" 8	eL	17 13.0						
		MN	15.0	18	3				
		F	17 25						
	" 8	eL	22 49.8						
		MN	51.5	21	14				
		ME	53.6	23		23			
		F	23 20						
	" 13	ePN	05 20 05					2660	
		iSNE	24 11	7	+3	-6		(23°9)	
		eL	25.1	14					
		MNE	27 27	11	6	11			
		F	06 20						
	" 17	eN	12 25 05						
		eN	33 21	7					
		eL	38·1	23		50			F 13 20
		ME	39 19	18					
		MN	40 29	17	19				

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
68	July 18	e(PPS)	21 39 18	21					
		eL	52.5	29					
		MNE	55.5	22	31	41			
		F	22 30						
69	" 24	$e?_E$	12 11 52						
		ePP	19 40	6					
		e(SKS)	25 42	7					
		$e(PS)_E$	29 03	17					
		MNE	29 39	15	-377	+37			
		eSS_E	36 22	22					
		eN	43 15	14					
		$e(LQ)_E$	46.2	22					
		MN	46 40	13	15				
		ME	47 08	22		26			
		eLR	53.6	32					
		ME	54 40	32		58			
		F	13 30						
70	" 25	$e?_N$	23 13 07						Depth greater than normal.
		eNZ	13 21						
		i_N	13 39	5	-13				
		i_N	14 00	5	-13				
		i_E	15 28	5		+13			
		i_E	15 51	5		-14			
		$i(S)_N$	17 40	5	+12				
		$i(sS)_{NE}$	18 26	7	+29	-7			
		$i(sS)_N$	18 56	9	+58				
		i_N	19 08	9	-29				
		eL_E	20.1	33					
		ME_1	23 33	11		49			
		MN	24 24	19	110				
		ME_2	26 56	15		44			
		F	00 50						
71	" 26	e_N	02 34.9						
		$e(sS)_N$	39 24	20					
		eL	42.3	29					
		ME	45 31	20		680			
		MN	45 56	20	490				
		MZ	48 40	13			74		
		F	Lost in No. 72						
72	" 26	eL	03 12.1						Beginning lost in preceding shock.
		ME	15 57	15		140			
		MN	16 26	15	120				
		MZ	18 39	13			28		
		F	05 00						
73	" 26	e	05 59.5						
		MN	06 05 05	11	8				
		ME	05 41	11		6			F 06 16
74	" 26	$e?_N$	07 47.8						
		e_N	52 56	15					
		eL_E	55.1	28					
		ME_1	59 12	20		380			
		MN_1	08 00 45	16	360				
		ME_2	02 52	12		280			
		MZ	02 59	12			80		
		MN_2	03 03	13	330				F 09 42
75	" 26	eL	11 02.3						
		ME	03 07	20		21			
		MN	03 28	20	21				
76	" 31	e_N	07 21 01	5					
		e_N	25 33	9					
		eE	27 20	8					
		eLN	31.9	17					
		MN	32 35	16	8				
		ME	35 31	13		3			F0800

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)	202	7.6	6.9	0.028
	(3)	174	6.3	1.8	0.043
A_E	(1)	206	7.5	4.3	0.035
	(3)	127	5.9	2.8	0.034
A_Z	(2)	82	3.3	2.4	0.091

8

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
77	Aug. 4	e_N	19 08 15						
		e	12 45						
		mNE	13 24	8	+6	+1			
		eL	16.7	20					
		ME	18 17	14		12			
		MN	18 39	13	9				
		P	20 13						
78	" 6	iP_{NEZ}	21 16 19	2	-13	-12	+15	2790	Compression.
		m_Z	16 22	2			-30	(25°1)	h 0.03
		ipP_{NEZ}	17 08	2	-16	-12	+9		
		i_{NE}	17 12	2	-11	-20			
		iNE	18 17	5	+18	+22			
		iS_{NE}	20 25	8	-36	+8			
		iNE	20 30	8	+40	-24			
		isS_E	21 50	6		+16			
		iSS_E	22 11	9		-35			
		iSS_N	22 15	9	-48				
		eL	24.1	15					
		ME_1	25 15	9		21			
		MN_1	26 34	9	23				
		ME_2	29 16	9		27			
		MN_2	33 06	14	22				
		P	23 02						
79	" 9	e_E	01 52 18	9					
		e_E	57 30	9					
		e	04.5	15					
		e(SS)	09 08	19					
		e_E	09.6	55					
		$e(SSS)_E$	14.1	26					
		eL_E	24.5	37					
		eL_N	28.8	39					
		MN_1	37 37	32	100				
		ME_1	37 59	30		150			
		MN_2	49 46	16	60				
		MZ	49 56	17			48		
		ME_2	50 12	18		160			
	(W_2)	MNE	03 19.6	20	19	19			
		P	05 19						
80	" 15	e_N	11 29.6						
		ME	35 45	10		4			
		MN	36 19	12	2				
		P	12 05						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

8

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
81	Aug. 15	iP_{NE}	13 47 18	4	+2	-2		4510	h 0.00
		iPP_N	48 53	4	-1			(40°6)	H 13 39 40
		e	49 31	4					
		iS_{NE}	53 25	4	+1	-2			
		iS_E	56 42	5		-6			
		i_E	14 00 51	5		+2			
		ME	02 45	14		3			
		MN	06 44	10	4				
		F	14 33						
82	" 15	e	17 30.9						
		e	34.7						
		ME	36 42	12		5			
		MN	36 49	12	3				
		F	18 30						
83	" 17	e?	02 43.8						
		i_N	47 53	5	-3				
		MN	49 18	8	2				
		ME	49 53	7		1			
		F	03 08						
84	" 17	iP_N	19 19 58	4	+2			5000	
		i(pP) NE	20 08	5	-10	+6		(45°0)	
		iPP_N	22 06	4½	+5				
		iS_N	26 32	11	-23	~~-23~~			
		iS_E	26 35	11		+24			
		i(sS) NE	26 57	9	+26	-14			
		iSS_{NE}	29 48	10	-12	-27			
		mN	29 59	10	-39				
		eL	32.5	39					
		ME	40 30	18		220			
		MNZ	40 39	18	150		118		
		F	22 35						
85	" 18	eE	07 58.4	9					
		eL_E	08 04.8	22					
		ME	06 55	21		11			
		eL_N	07.8	20					
		MNE	09 12	20	13	6			
		F	08 25						
86	" 18	eP	13 26 20	2					Deep focus.
		e	27 03	2					
		epP	28 02	4					Batavia reports:"Felt
		e	28 31	2					at Seba (I.of Savoe,
		iS_{NE}	31 24	4	-1	-9			near Timor) and at
		mN	31 31	6	+7				Bima (I. of Soembawa)"
		ME	31 33	4		+24			
		iSS_{NE}	34 35	5	-5	-2			
		i_E	34 42	6		+11			
		i_N	34 51	5	-4				
		i_N	35 24	4	+6				
		MN	42 31	5	3				
		F	14 05						
87	" 18	eE	18 47.3						
		eL_E	51.1	20					
		ME	51 35	20		5			
		MN	51 54	20	6				
		F	19 10						
88	" 18	eL_E	22 04.7	22					
		ME	08 00	16		4			
		MN	08 14	12	1				
		F	22 30						

(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		
	1912		h. m. s.	s.	μ	μ	μ	km.	
89	Aug. 19	eP	16 27 15	2				3000	h 0.02
		ipP_{NE}	27 46	5	-8	-4		(27°)	H 16 21.8
		iPP_{NE}	27 59	5	-4	-1			
		iS_N	31 37	9	-10				
		i_E	31 57	7		+11			
		isS_{NE}	32 40	7	+16	-17			
		iSS_{NE}	32 56	7	-17	+5			
		eL	36.6	15					
		ME	37 41	13		12			
		MN	37 57	14	18				
		F	17 35						
90	" 21	e?	10 16.9						
		e_E	17 36	4					
		e_N	18 46	7					
		e(S)	21 28	9					
		e_N	22 02	8					
		eL	24.0						
		MN	25 08	16	10				
		ME	25 48	16		10			
		F	11 15						
91	" 21	$e(P)_N$	17 34 42	4					
		$e(PP)_N$	36 51	4					
		e(S)	41 17						
		e(SS)	44 30						
		eL	52.7	25					
		ME	54 55	20		19			
		MNZ	55.2	19	15		20		
		F	18 32						
92	" 30	i_{NE}	18 27 25	5	+5	-1			
		MN	38.2	21	4				
		ME	46.7	18		1			
		F	Lost in No. 93						
93	" 30	$i(P)_{NE}$	18 53 48	4	+2	+2			
		$i(S)_N$	58 05	4	-2				
		e_N	58.5	10					
		F	19 08						
94	" 31	eL	13 07.1	22					
		MN	09 29	15	3				
		ME	10 40	17		7			
		F	13 30						
95	" 31	e_N	22 46 20	8					
		eL_E	23 05.5	25					
		MN	15.5	18	3				
		ME	15.9	18		1			
		F	23 35						

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)	202	7.7	6.5	0.031
	(3)	174	6.3	1.8	0.043
A_E	(1)	204	7.6	4.5	0.031
	(3)	127	5.9	2.8	0.034
A_Z	(2)	80	3.4	2.4	0.084

9

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
96	Sept. 1	iP_N	04 15 28	4	+2			3160 (28°.4)	h 0.06
		ipP_N	16 45	4	-5				
		$i(PP)_N$	16 57	4	-2				
		i_N	17 47	5	+2				
		iS_{NE}	19 49	5	+14	-16			
		isS_{NE}	22 24	5	+8	+7			
		i_E	23 44	5		-11			
		eL	24.0	18					
		i_E	24 20	6		+9			
		$iScS_E$	25 21	7		-20			
		i_E	27 05	7		+21			
		i_E	28 04	5		-13			
		ME	30 54	10		10			
		MN	34 50	8	13				
	M2	F	05 40	9			4		
97	" 3	e	21 32 31						
		e	32 58	7					
		eL	35.5	22					
		MNE	37 26	17	9	11			
		F	22 05						
98	" 4	e	02 39 33						
		e	43 53	8					
		eL	46.8	22					
		ME	51 32	11		1			
		MN	54 32	13	3				
		F	03 18						
99	" 5	eLQ_N	18 25.7	20					
		MN	26 16	20	19				
		eLR	30.0	21					
		MNE	31 49	18	13	13			
		F	19 01						
100	" 11	e_N	00 28 21	7					
		eL_N	34 31	17					
		MN	35 54	15	5				
		ME	36 26	15		3			
		F	00 49						
101	" 11	$e?_E$	01 02 42						
		e_E	04 42						
		eS_N	06 38	8					
		eL	20.7	28					
		MN	23 54	26	27				
		ME	25 13	21		17			
		F	02 07						

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

9

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
102	Sept. 11	e?N	19 50 27	4					
		e?E	52 20						Deep focus. h 0.10
		iSNE	54 32	4	-1	-5			
		eN	57 27	5					
		e(sS)E	57 44	6					
		iN	20 02 16	5	+3				
		iN	03 47	4	+5				
		MN	05 41	10	1				
		ME	08 17	10		1			
		F	20 20						
103	" 17	iPEZ	18 56 43	4		-2	+1	3160	Compression.
		ipPE	58 18	5		-4		(28°.4)	h 0.09
		iN	58 30	5	+2				H 18 51 34
		iSE	19 00 50	7		+7			
		iN	01 16	4	-5				
		iE	01 19	4		+8			
		iE	02 01	4		+7			
		iN	03 56	7	-5				
		iSSE	04 04	7		-2			
		mE	04 11	7		4			
		iScSE	06 19	7		+3			
		MN	08 00	9	2				
		ME	10 31	7		2			
		F	19 30						
104	" 19	e	04 06.6						
		eE	07 55	10					
		eLN	12.1	16					
		MN	13 53	10	2				
		ME	17 33	10		1			
		F	04 25						
105	" 22	eE	04 46 25						
		eL	52.9	20					
		ME	53 11	10		4			
		MN	53 41	18	13				
		F	05 40						
106	" 26	eE	19 24 22	13					
		eL	32.6	20					
		MNE	33.2	20	16	9			
		F	20 20						
107	" 29	iPN	20 59 25	5	-2			4840	h 0.007
		ipPN	59 44	5	+6			(43°.5)	H 20 51 28
		iN	21 00 09	5	+12				
		mN(PP)	01 30	7	+19				Beginning of phase
		iPPPNE	01 43	6	-13	+8			lost in hour mark.
		iNE	05 33	6	+16	-14			
		iSNE	05 47	7	+22	-14			
		isSN	06 19	11	+53				
		iE	06 33	7		-34			
		iSSN	09 05	11	-40				
		iScSNE	09 41	9	-62	+42			
		mNE	09 49	9	+100	-88			
		eL	11.8	23					
		ME	17 35	16		360			
		MN1	18 30	18	370				
		MN2	20 44	16	290				
		eL(W2)	23 35.9	26					This may be another
		MN	38 34	25	20				quake.
		ME	47 43	20		15			
	" 30	F	01 00						

No. 10 1912, 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	202	7.7	6.2	0.035
	(3	175	6.3	1.8	0.043
A_E	(1	202	7.6	4.7	0.026
	(3	127	5.9	2.8	0.034
A_Z	(2	77	3.4	2.5	0.078

10

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
108	Oct. 2	eL_E	02 29.0	20					
		eL_N	31.2	18					
		ME	32 53	14		3			
		MN	33 00	15	4				
		F	02 58						
109	" 12	$e?_E$	15 34 40	8				93° ca	
		$e?_N$	36 17	8					
		e(SKS)	44 34	16					
		e_N	53 38	16					
		eLQ_E	58.5	30					
		eLR_N	16 04.3	23					
		MNE	13.8	19	6	6			
		F	17 00						
110	" 16	e_E	04 07 53	2					Deep focus.
		e_E	08 06	2					
		e_E	08 36	2					
		i_E	08 57	6		-2			
		i_N	11 49	6	+3				
		i_{NE}	12 44	9	+9	+2			
		e_N	14 35	12					
		eL_N	16.8	13					
		MN	17 30	13	3				
		ME	18 00	13		4			
		F	04 32						
111	" 17	$e?_N$	09 50 45						
		e_N	55 05	2					
		e_E	56 06	2					
		e_N	58 59	23					
		mN	59 28	23	56				
		eL_N	10 02.6	27					
		MNZ	03.9	23	47		26		
		ME	04 22	20		37			
~~112~~	~~" 18~~	F	11 05						
112	" 18	e_E	12 18 20	10				89° ca	S or SKS.
		eSS_E	24 24	25					
		e(SKS)$_E$	28 05	17					
		e_E	29 55	14					
		eLQ_E	32.5	40					
		eLR_N	35.8	35					
		MN_1	37 13	31	26				
		ME	38 38	20		9			
		MN_2	41 12	22	16				
		F	13 55						

(Concluded 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		
	1912		h. m. s.	s.	μ	μ	μ	km.	
113	Oct.19	i_{NE}	10 32 41	9	+3	+3			
		e_N	35 25	15					
		eL_E	37.3	16					
		M_E	37 46	16		4			
		M_N	40 00	14	2				
		F	10 55						
114	" 20	e_E	09 39 55						
		e_E	40 27	8					
		e_E	44 47	16					
		eL_E	46.7	22					
		M_{NZ}	49.5	15	12		22		
		M_E	49 54	16		27			
		F	11 12						
115	" 26	iP_N	09 09 11	3	+2			5350 (48°.1)	Felt on Guam, Marianas. h 0.01 H 09 00 39
		ipP_N	09 35	4	-4				
		iPP_N	11 07	7	+2				
		iS_E	16 01	7		-5			
		$iScS_E$	18 55	8		-7			
		eL_N	23.8	40					
		M_E	25 11	16		19			
		M_{N_1}	25 34	28	30				
		M_{N_2}	27 17	19	14				
		F	10 20						
116	" 29	e_N	06 29 10						
		e_E	30 20	7					
		e_E	31 12	9					
		eL_N	32.7	28					
		M_N	33 49	22	16				
		M_E	34 02	20		12			
		F	07 06						
117	" 31	eP_N	17 31 46					4780 (43°)	heavy microseisms.
		iPP_N	33 35	6	-8				
		iS_{NE}	38 11	4	-3	+4			
		m_{NE}	38 20	17	29	13			
		$i(SS)_N$	41 25	10	-8				
		$i(ScS)_N$	41 30	10	+24				
		e_N	42 33	12					
		eL_N	45.8	22					
		M_{N_1}	50 44	17	74				
		M_E	51 44	15		67			
		M_{N_2NZ}	52.7	15	81		24		
		F	18 50						

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)	202	7.7	8.3	0.034
	(3)	175	6.3	1.8	0.043
A_E	(1)	199	7.7	4.2	0.032
	(3)	127	5.9	2.8	0.034
A_Z	(2)	73	3.5	2.3	0.082

11

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912		h. m. s.	s.	μ	μ	μ	km.	
118	Nov. 2	e?	12 12.7						
		e	14 04	8					
		eL	18.8	11					
		MN	18 55	11	3				
		ME	19 12	10		2			
		F	13 00						
119	" 2	eP_N	13 27 45					3100 (28°)	Probably in Solomon Is., in region of 7°S.,160°E.
		ePP	28 40						
		iS_N	32 27	8	-6				
		i_{NE}	32 41	7	-5	-5			
		eL_N	36.0	16					
		MN_1	38 40	13	9				
		ME	39 15	13		14			
		MN_2	41 29	12	14				
		F	15 04						
120	" 3	eL	06 36.8						A few long waves.
		ME	41.5	18		2			
121	" 3	e_E	16 29.9						
		e_N	31 43	11					
		eL_E	35.2	21					
		ME	35 54	20		12			
		MN	36 19	20	6				
		F	16 55						
122	" 6	e_E	14 18 45	15					
		eL_N	21.6	20					
		MN	22 53	20	8				
		ME	23 37	17		4			
		F	14 45						
123	" 7	eP_N	07 54 16	4					Focus deeper than normal. h 0.01
		epP_N	54 44	4					
		iPP_N	58 31	4	+2				
		i_N	58 52	4	+4				
		$eSKS_N$	08 04 38	7					
		iS_{NE}	05 31	10	-9	-6			
		i_{NE}	06 04	6	+10	-4			
		$i(sS)_E$	06 22	7		+15			
		i_E	06 40	7		+30			
		iPS_N	07 46	6	+10				
		i_{NE}	07 58	8	-5	-8			
		i_N	12 55	11	-7				
		iSS_N	13 18	14	+17				
		MNE	13 31	14	-20	-14			
		eLQ_E	22 44	25					

(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 μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912		23 01						
123	Nov. 7	ME_1	08 ~~22 44~~	25		25			
cont.		MN_1	23 53	25	25				
		eLR_N	28.2	31					
		ME_2	29 02	27		54			
		MN_2	30 41	24	41				
		MZ	35 12	19			12		
		MN_3	35 18	19	26				
		ME_3	36 27	19		24			
	W_2	eL_E	09 28.8	25					
		ME	32 24	21		7			
		eL_N	44 56	30					
		MN	45 54	30	15				
		ME	47 04	27		12			
		F	10 30						
124	" 7	eL	17 11.7	27					
		MN	28 03	19	3				
		F	Lost in No.125						
125	" 7	eL_E	17 42.5	27					
		ME	18 02 27	17		4			
		F	Lost in No.126						
126	" 7	eL_N	18 06.2	27					A few long waves.
127	" 7	eL	18 28.3	26					
		ME_1	28 52	26		11			
		MN	39 17	17	2				
		ME_2	39 46	16		5			
		F	19 12						
128	" 8	e_E	07 21 33						
		e	24.9						
		eL_N	29.0	17					
		MN_1	29 43	16	8				
		MN_2	31 36	13	7	7			
		ME	32 28	17		11			
		F	08 06						
129	" 8	e_E	08 19.8						A few long waves.
130	" 12	iP_{NE}	04 45 22	4	-1	-3		2470	h 0.02
		ipP_E	45 43	2		-2		(22°.2)	H 04 40 38
		eS_N	49 11	7					
		esS_N	49~~45~~ 46						
		eL_N	52.4	13					
		MNE	53.2	13	3	2			
		F	05 09						
131	" 12	iP_{NE}	15 16 17	3	+1	+2		2480	h 0.025
		ipP_E	16 52	4		-2		(22°.3)	H 15 11 35
		iS_N	20 04	5	-5				
		mS_{NE}	20 12	5	+10	-4			
		iN_N	20 27	5	+9				
		isS_{NE}	21 11	5	+1	+5			
		iN_N	21 27	5	+6				
		MN	24 35	12	2				
		ME	30 55	8		1			
		F	15 45						
132	" 13	e_E	00 38.1						
		eL	51.2	15					
		MN	51 32	15	3				
		ME	53 35	16		4			
		F	01 30						
133	" 13	eL_N	15 44.1	27					
		MN	48 49	15	2				
		F	16 00						

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

11

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1912								
134	Nov.14	$e?_N$	06 40 05						
		i_N	40 39	4	-1				
		i_E	47 08	5		+2			
		MN	47 58	8	1				
		ME	50 28	7		1			
		F	07 00						
135	" 17	e_N	01 26.2	9					
		eL	33.4	18					
		MN	34 28	15	5				
		F	01 56						
136	" 19	e_E	14 27.0	18					
		eLQ_N	43.8	25					
		MN	44.8	23	4				
		eLR	49.0	33					
		ME	51.1	24		9			
		F	15 40						
137	" 22	eL_N	02 54.9	15					
		MN	56 24	12	1				
		F	03 12						
138	" 27	iP_{NE}	09 38 36	4	-2	+1			Deep focus.
		i_E	39 21	7		-4			Practically no surface
		ME	46 17	10		1			waves.
		MN	46 20	11	5				
		F	10 00						

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)	197	7.8	6.5	0.033
	(3)	174	6.3	1.8	0.043
A_E	(1)	201	7.8	3.9	0.030
	(3)	127	5.9	2.8	0.034
A_Z	(2)	75	3.5	2.4	0.082

12

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1912		h. m. s.	s.	μ	μ	μ	km.	
139	Dec. 1	e_E	08 43 13	11					
		eL_E	51.8	23					
		MNE	55.5	20	6	12			
		F	09 30						
140	" 1	e	12 23.5	9					
		MNE	24.0	9	1	1			
		F	12 40						
141	" 4	e_N	05 14 42						From Mainka. Deep focus
		i_{NE}	15 23	4	+1	-5			" "
		i_E	15 55	4		+5			" "
		e	16 05	11					" "
		m_{NE}	16 52	11	5	11			" "
		i_E	16 46	7		-5			From Wiechert.
		m_E	16 51	7		+13			" "
		i_N	17 51	8	-13				" "
		i_N	18 41	8	+12				" "
		ME	20 15	12		15			" "
		MN	20 33	11	8				F 05 54
142	" 6	e_N	14 38 28	13					
		eL_E	41.8	24					Heavy microseisms.
		ME	43 52	12		67			
		MN	44 02	10	40				
		MZ	46 16	10			11		F 16 00
143	" 7	$e(PP)_N$	23 04 40						
		e_N	06 22	7					
		$e(SKS)_N$	10 20						
		e_N	11 11	8					
		e(PS)	13 49	19					
		MNE	14.1	19	6	8			
		eL	37.1	23					
		ME	37 26	23		8			
		MN	43 40	18	3				F 00 20
144	" 9	i_{NE}	0010 10	5	-1	-1½			
		eL_N	26.8	23					
		MNE	29.6	22	11	11			F 01 15
145	" 9	e?	08 51 20						
		e	54 09	5					
		e(SKKS)	59 27	17					
		e(PS)	09 02 15	13					
		e	03 14	22					
		eSS	08 58	27					
		eL_E	27.6	31					
		ME	33 48	19		10			
		MN	35 28	18	10				
	W2	eL_N	10 35.1	30					
		MN	47 39	19	4				
		ME	51 12	19		3			F 11 15

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

12

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude.			Δ	Remarks.
					A_N	A_E	A_Z		
	1912		h. m. s.	s.	μ	μ	μ	km.	
146	Dec. 13	e_E	10 11 51						Deep focus. Similar to No. 14\!
		e	12 13						
		i_N	13 13	4	+5				
		i_N	14 09	4	+8				
		e	14 59	11					
		MN	15 17	11	6				
		ME	15 37	11		4			
		F	10 45						
147	" 16	e_E	06 34 51						
		e	38 44	8					
		eL	40.7	22					
		ME	41 55	17		4			
		MN	42 19	14	6				
		F	07 10						
148	" 16	$e(P)_E$	10 04 02	7					
		e_N	04 35						
		$e(S)_E$	08 00	7					
		eL_N	09.3	21					
		ME	11 10	17		8			
		MN	11 21	14	8				F 10 40
149	" 16	e_E	23 32 52	7					
		i_E	35 11	4		+4			
		i_{NE}	35 46	7	+2	+1½			
		ME	35 58	7		5			
		i_N	36 20	7	+4				
		i_N	36 54	6	+9				
		eL	38.5	20					
		ME	41 47	17		24			
		MN	43 22	13	25				F 00 40
150	" 17	eL_N	00 47.6						
		MN	49 05	16	3				
		F	01 08						
151	" 20	SL_N	20 24.7	20					
		MN	27 13	17	6				
		ME	35 17	14		1			
		F	21 00						
152	" 24	eP	00 04 07					4580 (41°2)	H 23 56 24
		i_{NEZ}	04 09	4	+5	-2	+1		
		i_N	04 35	4	+3				
		iPP_E	05 45	4		-5			
		iS_N	10 18	7	-6				
		i_{NE}	10 24	6	+11	+7			
		iSS_{NE}	13 17	8	+3	-5			
		m_E	13 40	9		+14			
		m_N	13 41	8	11				
		eL	19.9	22					
		ME	22 10	18		55			
		MN	22 56	19	42				
		MZ	26 00	18			18		
		F	01 00						
153	" 24	eL	18 41.5	24					A few long waves.
154	" 28	$eP?_N$	08 08 53					52°	
		ePP_N	11 00	6					
		iS_N	16 12	6	-3				
		e_N	16 16	22					
		eSS	19 36	15					
		eSSS	21 58	12					
		eL	24.7	26					
		ME	26 57	18		12			
		MN	30 10	20	6				
		F	09 21						