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	168	7.3	3.4	0.02
	3	114	8.7	3.0	0.02
A_E	1	170	8.4	3.9	0.015
	3	182	9.2	5.6	0.04
A_Z	2	91	5.0	6.5	0.05

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1923								
1	Jan. 5	eP	17 56 43					2930	
		eS	18 01 21	8	2	-		(26.4°)	
		PS	01 45	8	11	0.5			
		eL	03.0	13					
		ME_1	03 58	6		7			
		MN_1	06 04	14	18				
		ME_2	07 47	11		18			
		MN_2	08 30	12	17				
		MZ_1	08 39	13			7		
		ME_3	12 21	10		14			
		MN_3	15 04	8	10				
		ME_4	16 15	9		10			
		MZ_2	17 06	11			7		
		F	19 20						
		e?	1 12.3						Heavy microseisms.
		(S?)	17.7						
		L	20.3	16					
		e	20 56	12	6				
			21 47	11		8			
		2	22 38	12	6				
			1 50						
		P	10 00 57						
		eL	12.8	24					
		ME_1	13 36	20		5			
		MN_1	18 37	18	3				
		ME_2	27 14	14		1			
		MN_2	29 47	14	2				
		F	11 25						
4	" 14	eP	19 44 58	5	-	1			
		eL	48.0	16					
		M	48.8	12	3	3			
		F	20 05						
5	" 21	eP	13 43 58	4	-	0.5		2610	
		iS	48 12	9	-1	-5		(23.5°)	
		PS	48 22	9	2	5			
		eL	50.7	24					
		ME	51 16	20		11			
		MN	52 28	14	5				
		F	14 30						
	" 21	eP	18 03 28	?				2290	
		eS	07 16	8	0.5	1			
		ME	11 31	16		2			
		MN	11 36	18	3				
		F	18 40						

(Continued on next sheet)

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	e : 1	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
7	Jan. 22	P	1 00.7	5	-	2		2980?	P uncertain ± min. 0.2
		PR_1	01 20	5	4	5			
		eS	05 24	7	0.5	2			
		PS	05 42	7	-	6			
		eL	06.2	12					
		MN_1	07 28	13	37				
		ME	09 00	20		39			
		ME	09 42	12			6		
		MN_2	10 02	12	34				
		F	2 30						
8	" 22	eP?	9 27 52					9300?	
		e(S?)	38 20	?					
		eL	53.5	30					
		ME_1	54 44	25		12			
		MN_1	10 03 12	16	5				
		ME_2	04 48	16		5			
		ME_3	09 55	16		5			
		MN_2	12 33	16	5				
W2	waves (L rep 1)	eW_2	11 16.8						
		ME_1	23 48	16		3			
		MN	24 48	16	9				
		ME_2	29 32	16		5			
		F	12 05						
9	" 24	eP	18 53 52					2690	
		eS	58 12	8	1	2		(24.2°)	
		eL	58.8	18					
		ME	59 19	16		20			
		MN	59 52	12	5				
		F	19 55						
10	" 27	eP	16 31 18						
		eL	40.7	13					
		MN	41 33	12	3				
		ME	42 45	15		7			
		F	17 30						
11	" 27	e	23 07.9						
		eL	23.3	17					
		MN	23 41	14	2				
		ME	24 58	16		5			
		F	23 45						
	" 29	eP	18 08 27					2400	
		eS	12 24					(21.6°)	
		eL	13.0	8					
		ME_1	13 20	7		3			
		MN	14 45	7	2				
		ME_2	16 20	7		3			
		F	19 15						

Riverview College Observatory,

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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	173	7.1	3.6	0.02
	3	125	8.5	3.3	0.02
A_E	1	161	8.5	4.2	0.015
	3	113	9.0	4.2	0.03
A_z	2	74	4.5	4.0	0.09

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
13	Feb. 1	iP	19 29 36	4	+1	+3		2260 (20.3°	Computed Azimuth:- 245° (N.65°E.) (Rarefaction)
			29 32	4	+10	+23			
		PR_1	30 19	5	11	20			
		S	33 21	6	+28	-13			
			33 48	6	50	65			φ, 23½°S. λ, 171°E.
		eL	33.9	16					h m s
		MN_1	34 48	7	39				0., 19 24 56
		ME_1	35 07	7		15			
		MN_2	37 42	10	41				
		ME_2	37 59	10		29			
		ME_3	39 44	10		21			
		F	21 20						h m s
14	" 1	eP	21 38 42	6	0.5	1		2340 (21.0°	0., 21 33 42
		iS	42 34	6	+5	-9			
		PS	42 49	6	8	16			
		MN	47 14	11	5				
		ME	48 10	11		2			
		F	22 40						h. m. s
15	" 2	eP	5 20 54	4	0.5	0.5		8770 (78.9°	0., 5 08 54
		eS	30 53	8	0.7	1			
		iPS	31 14	8	+14	+20			
		ME_1	51 16	20		30			
		MN_1	52 35	20	25				
		MN_2	57 06	20	33				
		ME_2	57 11	18		24			
		M_3	6 00.9	17	32	38			
		M_4	06.7	16	27	38			
		M_5	10.7	16	24	19			
		M_6	16.4	14	11	17			
		M_7	22.8	15	15	24			
		F	9 45						
16	" 3	eP	5 41 42	4	-	1			
			43 33	4	2	7			
		eL	45.6	15					
		M	46.6	13	14	13			
		F	6 30						

(Continued on next sheet)

Riverview College Observatory,

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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		(See last sheet)		
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.
	1923								
17	Feb. 3	eP	16 14 34	2				9790	Computed Azimuth:-
		i	14 59	3	+10	+1	-10	(88.1°)	186°(N.6°E.)
		eS	25 23	9	16	8			(Rarefaction)
		i	25 41	9	-39	-43			
		PS	26 05	20	360	690			
			28 02	12	117	23			ϕ, 52°N.
		eSR_1	31 33	20	190	42			λ, 175°W.
			32 39	20	504	195			
		eSR_2	35 37	18	80	85			
		eL	37.7	42					h m s
		ME_1	38 42	38		1800			0., 16 01 34
		MN_1	39 55	33	910				
		ME_2	40 29	32		1020			
		MN_2	44 03	32	970				
		MN_3	47 01	25	610				
		ME_3	48 32	20		330			
		MZ_1	49 16	20			390		
		ME_4	52 49	18		420			
		MN_4	53 31	19	640				
		MZ_2	54 14	18			400		
		MB_5	55 55	16		340			
		MN_5	17 04 12	17	450				
		MZ_3	04 33	17			480		
		ME_6	05 00	16		207			
		ME_7	09 12	15		210			
		MN_6	15 14	16	190				
		ME_8	18 57	14		175			
		MN_7	23 03	16	135				
		ME_9	32 12	14		70			
		MN_8	39 12	15	60				
		ME_{10}	40 10	16		100			
		CE_1	48 51	16		60			
		CN_1	48 59	16	40				
W_2	waves	eW_2	57.2	60					
	(L rep 1)	CE_2	18 12 43	16		36			
		CN_2	19 37	20	42				
		CE_3	21 12	16		50			
		CN_3	27 51	16	50				
		CE_4	29 27	20		80			
		CE_5	35 29	17		55			
		CN_4	39 07	16	100				
		CN_5	45 53	16	37				
		CE_6	19 04 31	17		14			
		F	22 00						
18	" 3	eP	19 06 12	5	3	1			
		i	06 25	5	+5	+13			
			06 42	5	1	8			
		F last in N°17							

Riverview College Observatory,

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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	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
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.
	1923								
19	Feb. 8	e?	0 02.8						
		eS	06 45	8	1	4			
		PS	07 02	10	2	6			
		eL	09.4	20					
		ME	10 20	16		7			
		MN	11 12	14	5				
		F	0 40						
20	" 8	eP	3 08 11					2440	h m s 0., 3 03 11
		eS	12 11	9	0.5	1		(21.9°)	
		eL	14.4	20					
		ME	15 28	16		3			
		MN	16 58	16	2				
		F	3 35						
21	" 12	eL	2 42.9	20					
		ME_1	44 41	18		2			
		MN_1	45 44	16	3				
		MN_2	50 54	16	5				
		ME_2	51 58	15		3			
		F	3 45						
22	" 12	e(S?)	~~14~~ 18 16.7						
		eL	21.0	17					
		ME	22 54	16		5			
		MN	23 20	16	5				
		F	~~14~~ 19 55						
23	" 15	e?	9 53 19						N.E. analyses from Seismometer N°3
		e	10 01 02	7	2	2			
		M	01.7	6	32	18			
		F	10 25						
24	" 18	e(S?)	10 48.4	16					
		ME	51 27	12		3			
		MN	51 33	12	2				
		F	12 10						
25	" 19	eP	6 23 12	6	0.5	0.5		3240?	
		e(S?)	28 12	7	0.5	0.5			
		eL	30.5	12					
		ME_1, MN_1	34.7	9	33	18			
		ME_2	36 30	8		32			
		ME_3	38 48	8		30			
		MN_2	39 39	8	23				
		F	7 40						

(Continued on next sheet)

Riverview College Observatory,

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SEISMOLOGICAL BULLETIN.

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

INSTRUMENTS:

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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		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	h m s
26	Feb. 23	iP	5 59 51	4	-2	+3		4540	0., 5 51 51
			6 00 14	5	3	2		(40.8°)	
		iS	06 08	7	-7	+4			
		eSR_1	09 12	8	6	2			
			09 33	7	15	24			
		eL	13.2	20					
		M_1	17.2	10	12	10			
		ME_2	20 21	10		11			
		MN_2	21 12	13	29				
		ME_3	23 56	12		5			
		MN_3	26 12	10	9				
		F	7 50						h m s
27	" 24	eP	7 47 41	5	0.5	-		9280	0., 7 35 01
		eS	58 05	9	6	1		(83.5°)	
		PS	59 03	16	22	30			
		eSR_1	8 03 33	14	4	8			
		eL	12.7	25					
		ME_1	15 12	18		29			
		MN_1	17 08	18	24				
		ME_2	21 18	20		30			
		MN_2	22 55	18	55				
		ME_3	26 01	16		27			
		MN_3	26 46	16	32				
		ME_4	29 55	16		32			
		MN_4	31 12	20	42				
		ME_5	33 45	16		21			
		MN_5	35 55	16	37				
		CE_1	41 29	16		13			
		CN_1	43 11	16	25				
		CE_2	47 33	16		23			
		CN_2	53 12	14	15				
		CE_3	57 35	16		11			
		F	10 55						h m s
28	" 27	eP	13 50 27	6	1	-		2660	0., 13 40 47
		eS	54 45	7	-	1		(23.9°)	
		PS	55 05	7	1	1			
		eL	56.4	20					
		MN_1	57 33	14	5				
		ME_1	59 22	9		4			
		MN_2	14 01 25	11	5				
		ME_2	01 43	10		4			
		F	14 45						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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INSTRUMENTS:

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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	165	7.8	2.7	0.02
	3	124	8.6	3.4	0.03
A_E	1	171	7.7	3.1	0.015
	3	143	9.0	2.7	0.04
A_z	2	76	5.0	4.7	0.03

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude A_N μ	A_E μ	A_z μ	Δ km.	Remarks.
	1923			4)					H m s
29	Mar. 2	eP	16 57 17	8	1	½		5190	0.,16 48 37
		PR_1	59 08	9	1	2		(46.7°)	
		iS	17 04 09	12	+22	+12			
		ES	04 34	12	6	12			
		SR_1	07 13	14	22	21			
			07 45	11	11	40			
		eL	11.1	?					
		ME_1	15 09	16		66			
		MN_1	15 58	16	26				
		ME_2	17 09	15		38			
		MN_2	18 44	16	60				
		ME_3	20 13	16		66			
		MN_3	24 29	14	48				
		ME_4	24 57	14		40			
		ME_5	28 19	15		49			
		ME_1	31 52	14		27			
		CN	35 13	12	24				
		CE_2	38 58	14		15			
		F	19 55						
30	" 3	e?	22 15.4						
		e?	20.0						
		eL	25.2	20					
		ME	30 21	19		9			
		F	23 30						
31	" 4	eP	6 59 53	4	-	½		3540	h m s 0.,6 53 08
		PR_1	7 01 19	6	-	3		(31.8°)	
		eS	05 13	8	4	4			
		eL	08.0	20					
		MN	11 49	12	42				
		ME	12 45	12		21			
		F	8 20						
32	"(9	e?	23 18.7						
	10	e?	23.0						
		eL	27.4	19					
		ME_1	29 05	15		3			
		MN	30 31	12	2				
		ME_2	34 15	13	5				
		F	0 10						

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ERRATUM. 1923, Feb. 12 (No. 22): For 12h. read 14h.

Riverview College Observatory,

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SEISMOLOGICAL BULLETIN.

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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		(See last sheet)		
A_E				
A_Z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	h m s
33	Mar. 10	eP	8 11 15	4	-	1		2600 (23.4°)	0.,8 05 50
		eS	15 28	8	-	½			
		eL	19.2	2					
		ME	21 15	16		11			
		MN	23 15	12	8				
		F	9 35						
34	" 14	eP	20 52 32	5	½	½		4880 (46.9°)	h m s 0.,20 44 12
		iS	59 08	7	-3	-			
		PS	59 44	7	1	1			
		SR_2	21 02 34	8	7	6			
		eL	05.3	18					
		ME_1	12 19	20		40			
		MN_1	13 15	20	40				
		MZ_1	13 41	19			27		
		ME_2	13 53	15		27			
		MN_2	16 21	15	19				
		MZ_2	16 33	15			16		
		ME_3	17 28	14		17			
		ME_4	19 21	14		17			
		MN_3	20 27	12	4				
		F	22 25	3)					
35	" (16	eP	22 10 08	12	2	2		4900 (44.1°)	h m s 0.,22 01 48
	17		10 24	12	2	-			
		eS	16 45	10	10	3			
		PS	17 15	10	7	4			
		eSR_1	20 02	12	11	7			
			20 15	12	39	25			
		eL	22.2	20					
		MN_1	28 41	16	51				
		ME_1	28 49	16		80			
		MZ_1	30 55	18			85		
		MN_2	31 08	17	80				
		ME_2	32 15	18		100			
		MN_3	33 31	35	56				
		ME_3	34 06	13		45			
		MZ_2	35 24	16			37		
		MN_4	35 41	15	40				
		ME_4	37 36	12		25			
		MZ_3	38 30	15			44		
		CN	44 54	14	9				
		CE	44 58	14		13			
		F	1 00						

(Continued on next sheet)

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

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
36	Mar. 18	eP?	6 41 11						Felt slightly in Wellington, N.Z.
		eS?	44 58						
		MN	52 39	16?					
		F	7 15						
37	" 19	e	15 25.6						
		ME	31 19	12		4			
		MN	32 57	14	2				
		F	16 00						h m s
38	" 24	eP	12 52 57	3	½	¾	-	5220	0., 12 41 17
		eS	13 02 28	7	-	1		(74.0°)	
		i	02 33	7	+13	+11			
		PS	03 25	7	7	2			
		eSR_1	07 17	10	3	2			
		eL	13.4	20					
		MN_1	14 36	18	14				
		ME_1	18 40	20		28			
		MN_2	21 16	18	24				
		ME_2	21 32	18		22			
		MN_3	23 48	20	62				
		ME_3	25 26	22		75			
		MN_4	27 32	20	47				
		MN_5	28 18	20	62				
		ME_4	29 32	19		57			
		MZ_1	29 39	19			18		
		MN_6	32 36	24	48				
		ME_5	33 18	20		53			
		MZ_2	36 20	20			30		
		ME_6	36 32	20		77			
		MN_7	36 52	20	43				
		MZ_3	42 17	18			25		
		ME_7	42 36	18		31			
		F	15 45						
39	" 26	e(S?)	14 08 45	10	-	1			
		eL	11.6	16					
		ME_1	12 56	14		3			
		MN	15 03	12	2				
		ME_2	15 25	12		3			
		F	14 50						

(Continued on next sheet)

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		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	h m s
40	Mar. 28	iP	4 35 17	4	-5	+4	+15	3670	0., 4 28 17
		iS	40 45	8	+11	+6		(33.0°)	
		iPS	41 22	7	-13	+8			Near Island of
		MN_1	45 10	6	19				Timor.
		ME_1	45 49	7		16			
		MZ_1	46 42	3.5			11		
		MN_2	47 29	7	37				Very short wave-
		MZ_2	48 00	3			15		lengths.
		ME_2, MN_3	48.2	6	38	23			
		ME_3	50 28	6		23			
		MN_4	50 35	6	24				
		ME_4	52 10	7		27			
		MN_5	56 38	8	23				
		ME_5	56 52	8		13			
		CE	5 01 33	7		6			
		CN	01 59	7	4				
		F	5 40						
41	" 28	eP	20 35 54					3450	h m s
		eS	41 08	?				(31.0°)	0., 20 29 14
		SR_1	42 58	?					Banda Sea.
		ME_1	46 40	7		6			
		MN	47 00	6	7				Very short wave-
		MZ_1	47 22	3			5		lengths.
		MZ_2	48 35	4			3		
		ME_2	51 33	6		5			
		F	21 00						

E. F. Pigott S.J.

No. 4 1923, April.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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

INSTRUMENTS:

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

		V	T_o	ϵ : 1	$\frac{r}{T_o^2}$
A_N	(1)	158	7.8	2.5	0.02
	(3)	126	8.7	3.0	0,04
A_E	(1)	165	7.7	3.0	0.015
	(3)	151	9.0	3.9	0.05
A_z	(2)	83	4.8	3.8	0.05

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
42	Apr. 13	eP	10 08 55	5	-	1¾	1¾	2210?	
		i(S?)	12 36	6	-2	+10			
		i(SR_1?)	13 13	6	2	-14			
		eL	14.2	16					
		ME_1	18 38	12		12			
		MN	18 48	12	5				
		ME_2	23 04	10		6			
		F	11 00						
42a	" 13	i(P?)	10 10 21	4	-	+3	+2½		
		i(PR_1?)	11 36	6	-	-6			
			11 45	6	-	9	7		
		i(S?)	15 39	8	-6	+2½			
		F	Lost in N°42						
43	" 13	e(S?)	15 55 30						
		eL	16 08.9	28					
		ME_1	15 32	26		13			
		MN_1	17 25	22	9				
		ME_2	18 17	20		14			
		MN_2, MZ	19.4	20	18		10		
		F	17 15						
44	" 17	eL?	17 18.1	?					A few long waves.
		F	17 40						
45	" 19	e	3 17 53						
		eS	24 49	14	4	16			
		eL	30.4	30					
		ME_1	34 36	28		140			
		MN_1	40 10	22	62				
		ME_2	40 57	17		53			
		MZ_1	41 00	20			40		
		MN_2	41 19	19	67				
		ME_3	44 53	14		24			
		MZ_2	45 18	16			10		
		F	5 40						
46	" 23	e	3 36.4						
		MN	52 13	22	9				
		ME	52 39	22		9			
		F	4 20						
47	" 27	e	10 40.5						
		e	43.6	8	-	½			
		eL	48.7	22					
		M	51.6	20	3	4			
		F	11 10						
48	" 30	e?	20 06.4	5	½	1			
		e(S?)	10 09	7	2½	2			
		ME	11 13	10		½			
		MN	12 51	18	8				
		F	20 35						

E. F. Pigott Sy.

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	162	7.7	2.7	0.015
	3	117	8.7	2.8	0.037
A_E	1	177	7.7	3.2	0.01
	3	155	9.0	2.4	0.045
A_z	2	76	5.0	4.3	0.04

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude A_N μ	A_E μ	A_z μ	Δ km.	Remarks.
	1923								
49	May. 4	eS	16 50 52	8	2	-			Alaska.
		PS	51 54	8	-	8			
		eSR_1	58 28	12	1	1½			
			17 00 02	16	9	8			
		e	07 42	22					
			08 42	26	-	30			
		eL	12.8	24					
		ME_1	15 28	20		20			
		MN_1	14 55	20	25				
		MN_2, MZ_1	18.3	18	26		24		
		ME_2	19 42	16		23			
		MZ_2	20 17	18			16		
		MZ_3	26 00	18			16		
		MN_3	31 47	16	6				
		ME_3	32 56	16		17			
		CE	47 10	16		3			
		CN	47 44	15	4				
		F	19 55						
50	" 4	eP	22 45 10	4	1	1		4380	h m s 0.,22 53 00
	5	eS	51 19	5	1½	1½		(39.4°)	
		eL	54.5	?					
		MN	57 18	?					
		ME	23 01 19	8		1			
		F	0 35						
51	" 10	eL	4 37.4	16					
		MN_1	41 05	12	1½				
		MN_2	43 30	14	2				
		ME^2	46 08	?					
		MN_3	51 39	12	1½				
		F	5 35						
52	" 11	e	5 58.2	5	½				
		ME	7 06 55	7		1½			
		MN	07 32	7	½				
		F	7 30						

(Continued on next sheet)

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		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
53	May. 11	eP	8 29 44	3	½	½		2680	Short wave-lengths.
		PR_1	30 16	4	4	1		(24.1°	h m s
		eS	34 03	6	2	¾			0.,8 14 09
		MN_1	34 59	8	2				
		ME_1	35 47	6		2			
		ME_2	39 44	8		1			
		F	9 05						h m s
54	" 12	eP	1 28 50					5500	0.,1 19 50
		iS	36 13	6	+5	+5		(49.9°	
		PS	36 34	6	-	3			
		eL	42.8	28					
		MN_1	46 39	20	36				
		MZ	48 36	20			30		
		ME_1	49 52	20		34			
		MN_2	51 15	16	22				
		ME_2	53 13	18					
		F	3 15						
55	" 14	e	11 31.3						
		ME	35 30	1·4		2			
		MN	36 33	?					
56	" 15	e	21 46.4						
		eL	50.1	16					
		MN	54 26	12	2				
		ME	54 43	12		2			
		F	22 15						
57	" 16	e?	18 15.5						
		eL	18.2	18					
		ME	18 56	14		6			
		MN	19 51	13	2				
		F	18 45						
58	" (23	e (PR_1 ?)	22 55.7	6	-	½			
	24	e (S?)	23 01.2	11	1½	-			
		eL	19.2	20?					
		MN_1	28 56	16	6				
		ME_1	35 38	16		6			
		MN_2	35 47	16	11				
		ME_2	52 16	15		5			
		F	0 55						

(Continued on next sheet)

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		(See last chee)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
59	May. 26	e	8 53.6						
		eL	55.3	?					
		ME_1	58 45	15		11			
		MN_1	59 53	16	9				
		ME_2	9 01 15	12		6			
		MZ_2	02 34	12			3		
		F	9 25						
60	" 28	eS?	1 45 28	6	½	3			
		eL	52.8	24					
		MN_1	58 02	17	25				
		MN_2	2 00 50	12	16				
		ME_1	01 49	14		7			
		MN_3	04 52	10	8				
		ME_2	16 41	15		7			
		F	3 05						
61	" 29	e	9 11.6	4					
		eL	13 32	20					
		MN	14 45	11	1½				
		ME	17 07	8		1			
		F	9 25						
62	" 30	e	13 47.7						
		eL	50.7	16					
		M	51.5	12	3	2			
		F	14 05						
63	" 30	e?	15 01.2						
		eL	07.5	16					
		ME	09 14	12		5			
		MN	09 22	12	2				
		F	15 25						
64	" 31	e	21 30.2						
		ME	47 31	12					
		MN	48 19	12	2				
		F	22 05						

F. T. Rigol — Ty.

No. 6 1923, June

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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

INSTRUMENTS:

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

		V	T_o	ϵ : 1	$\frac{r}{T_o^2}$
A_N	1	162	7.7	3.2	0.01
	3	131	8.7	2.7	0.03
A_E	1	174	7.5	3.1	0.01
	3	157	0.0	2.2	0.04
A_Z	2	79	4.9	4.3	0.05

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	h m s
65	June1	eP	17 35 58	4				7760	O., 17 24 48
		iS	45 06	6	-3	4		(70.0°)	
		eL	55.4	26					
		ME_1	59 52	16		14			
		MN_1	18 01 05	16	14				
		ME_2	02 10	15		15			
		MN_2	03 23	14	16				
		ME_3	08 57	16		14			
		MN_3	09 40	16	11				
		MZ	14 44	18			8		
		F	Lost in N°.66						
66	" 1	eP	20 26 57	4				7770	h m s O., 20 15 47
		S	36 06	6	3	5		(70.1°)	
		eL	46.2	?					
		ME	50 55	16		9			
		MN_1	51 44	17	5				Origin probably
		MN_2, MZ	57.9	18	14		8		adjacent to that
		ME_2	59 59	14		5			of N°.65.
		eW_2	22 54.9						
	W_2 waves	ME	58 44						
		F	23 15						
67	" 2	ME	1 52 58	14		1½			
		MN	57 22	14	3				
		F	1 25						
68	" 2	e?	4 46.9						
		eL	54.6	16					
		MN	55 40	12	2				
		ME	57 45	12		1½			
		F	5 35						
69	" 2	eP	12 45 10	5	-	6		2770	h m s O., 12 39 30
		eS	49 36	7	6	-		(25.1°)	
		eL	51.2	16					
		MZ	53 00	14			9		
		ME	53 44	14		5			
		MN	55 19	10	8				
		F	13 55						
70	" 2	e?	14 24.2	5					
		eL	33.3	18					
		MN	36 53	11	2				
		ME	37 34	15		5			
		F	15 35						

(Continued on next sheet)

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		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
71	June 3	e?	11 57.1	6	½	½			
		e	12 09.0	14?					
		eL	18.9	26					
		MN	21 56	20	5				
		ME	23 28	18		3			
		F	12 40						
72	" 17	e?	21 17.8						Short wave-lengths
		eL	21.1	10					
		ME	22 45	9		1½			
		MN	23 44	8	1				
		F	21 35						
73	" 17	eP	22 18 21	4	½	1		2350 (21.1°)	h m s 0., 22 13 21
		iS	22 14	6	-3	-2			
		PS	22 22	6	3	4			
		eL	23.1	12					
		ME	24 11	7		1½			
		F	22 40	(2					
	" 18	iP	8 22 38	4	-	2½		4640 (22.7°)	h m s 0., 8 14 33
		i	22 49	4	+¾	+9			
		PR_1	24 05	5	-	2			
			24 21	7	2	23	4		
			25 05	7	8	10			Short wave-lengths.
		i (see A)	28 05	5	+4	-7			
		eS	29 01	8	1	3			
		PS	29 27	8	2	8			
		i (see B)	31 04	11	-65	+26			A, B: perhaps the iP and iS of a nearer earthquake.
		eL	31.7	20					
		MN_1, ME_1	32.5	14	13	22			
		i	33 04	7	+21	-18			
		MN_2	33 34	13	22				
		MZ	34 05	16			13		
			34 23	8	13	21			
		ME_2	36 38	18		23			
		ME_3	39 21	13		18			
		MN_3	39 43	12		14			
		F	10 50						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

ϕ=33° 49′ 19″ 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		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	h m s
75	June 22	eP	6 56 20	4	¾	1		8360	O., 6 44 30
		eS	7 05 58	8	-	1½		(75.2°	
			06 07	8	5	3			
		SR_1	11 16	9	2¾	4			
		eL	18.9	25					
		MN_1	24 37	22	83				
		ME_1	25 15	22		50			
		MN_2	27 29	22	83				
		MN_3	31 12	18	60				
		ME_2	31 50	17		37			
		MZ	32 59	19			18		
		ME_3	38 46	16		48			
		CN	49 37	15	9				
		CE	51 45	14		8			
		F	9 20						h m s
76	" 22	eP	20 51 04	3				2400	O., 20 45 54
			53 26	6	-	2		(22.3°	
		iS	55 08	7	-4	-4			
			55 12	7	14	14			
		eL	56.9	22					
		MZ	57 18	18			6		
		ME	58 29	18		18			
		MN	59 00	16	12				
		F	22 05						h m s
77	" 24	eP	12 44 40	4	-	½		3000	O., 12 38 40
		PR_1	45 08	4	-	2		(27.0°	
		eS	49 23	?					
		eL	51.2	24					
		MN	53 50	15	4				
		ME	54 27	18		8			
		F	13 50						

E. F. Pigot S.J.

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	$\frac{r}{T^2}$
A_N	(1)	169	7.7	2.7	0,02
	(3)	118	8.7	2.9	0.03
A_E	(1)	180	7.5	3.4	0.01
	(3)	143	8.9	2.0	0.04
A_z	(2)	81	4.8	4.0	0.06

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
78	July 3	eS?	2 51.3	?					Heavy microseisms.
		eL	3 01.1	20?					
		ME	03 10	14		4			
		MN	06 18	14	5				
		F	3 40						
79	" 4	eL	23 14.2	20					
		ME	15 52	15		4			
		MN	17 09	12	5				
		F	23 55						
80	" 7	e?	12 51.3						Heavy microseisms.
		eL	58.5	22					
		MN	59 22	16	4				
		ME	13 00 42	14		5			
		F	13 20						
81	" 12	iP	3 22 05	3	-3	-7		3140 (28.2)	h m s O., 3 15 55
		ePR_1	23 02	4	1	-			
		iS	26 58	6					
		SR_1	28 12	6	4	-			
			28 22	6	4	-			
		eL	29.2	?					
		MN_1	30 02	21	70				
		ME_1	31 28	21		70			
		MZ_1	31 59	21			24		
		MN_2	32 00	14	42				
		MN_3	36 01	10	21				
		ME_2	36 45	12		11			
		ME_3	46 59	10		10			
		CN	4 03 01	10	1½				
		CE	03 57	11		5			
		F	5 30						
82	" 12	e	9 25.1	8					
		eL	27.4	21					
		MN	28 12	21	19				
		ME	30 06	21		15			
		F	10 10						

(Continued on next sheet)

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		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	h m s
83	July 13	eP	11 24 33	4				7270	0., 11 13 46
		eS	33 16	8				(65.4°)	
			33 20	8	5	-			
		i	34 28	6	+5	-8			
			34 37	6	11	8			
		eL	43.2	?					
		ME_1	45 33	21		35			
		ME_2	50 43	19		46			
		MN	51 28	21	43				
		MZ	53 31	18			25		
		ME_3	54 20	18		39			
		e(W_2)	13 57.5						
		F	14 10						
84	" 13	e	16 13.0	8					
		MN	16 16	11	1½				
		ME	17 00						
		F	16 40						
85	" 14	e	0 27.2	?					
		ME	33 30	21		4			
		MN	33 51	20	3				
		F	0 45						
86	" 16	iP	13 43 45	7	-2	-3		2840	h m s 0., 13 38 02
		iS	48 16	8	-8	-7		(25.5°)	
		eL	49.9	25					
		ME_1, MZ	51.6	18		59	17		
		MN_1	51 53	16	63				
		ME_2	57 01	12		14			
		MN_2	58 06	10	9				
		ME_3	14 02 27	8		11			
		F	15 05						
87	" 17	eP	0 32 36	?				3870	Short wave-lengths.
		eS	38 16	4	3	2		(35.0°)	
		PS	38 40	4	8	5			
		SR_1	40 05	6	5	-			h m s 0., 0 25 23
		eL	41.7	?					
		MN_1	41 58	12	5				
		ME_1	43 46	6		2			
		MN_2	43 52	6	2				
		ME_2	45 16	6		3			
		F	1 20						

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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		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
88	July 18	e	0 20.6	?					
		e	22.1	5					
		F	0 40						
89	" 22	eP	14 31 25	4				8630 (77.6°)	h m s 0., 14 19 21
		eS	41 17						
			41 44	12	4	5			
		SR_1	47 25	12	3	3			
		eL_1	56.4	?					
		MN_1	59 50	21	4				
		ME_1	15 00 25	14		6			
		MN_2	03 07	21	11				
		ME_2	03 33	14		8			
		MN_3	07 26	15	7				
		F	16 10						
90	" 24	e	13 10.1	11					
		ME	10 47	10		1			
		MN	10 51	13	2				
		F	13 15						
91	" 26	e(P?)	7 34 55					3240?	
		eS	39 55	10					
		MN	42 50	12	4				
		ME	46 38	12		5			
		F	8 15						
92	" 26	eP?	10 02 25						
		eS	07 59	11					
		MN	14 29	11	2½				
		ME	14 41	12		3			
		F	10 45						
93	" 27	e	11 43.2						
		eL	48.9						
		MN	49 43	11	2½				
		ME	49 49	10		2			
		F	12 20						

E. F. Pigot S. J.

Riverview College Observatory,

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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	e : 1	$\frac{r}{T_o^2}$
A_N	1	171	7.7	2.9	0.02
	3	129	8.7	3.3	0.03
A_E	1	178	7.6	3.0	0.01
	3	151	9.0	2.3	0.03
A_z	2	82	4.8	4.0	0.07

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
94	Aug. 4	eL	16 25.6	25					
		MN	27 21	16	4				
		ME	27 38	18		8			
		F	17 00						
95	" 5	e	1 14.6						
		eL	15.3	20					
		MN	18 26	16	10				
		ME	20 41	12		2			
		F	1 35						
96	" 5	e	10 20.1						
		e	24.1						
		eL	27.5	16					
		MN	28 47	14	10				
		ME	30 42	12		2			
		F	10 55						
97	" 6	e	22 32.4						Short wave-lengths.
		F	22 45						
98	" 7	e	14 50.4						
		ME	55 26	12		1			
		MN	57 06	12	1				
		F	15 15						
99	" 9	e	21 25.0						
		ME	27 10	14		1½			
		MN	28 14	16	2				
		F	21 40						
100	" 10	eP	22 20 39	6					
		e	25 06						
			25 25	7	5	6			
			26 35	8	6	8			
		eL	26.9						
		ME_1	27 35	11		11			
		MN_1, ME_2	30.8	12	18	40			
		MZ	33 07	9			4		
		ME_3	33 30	9		12			
		MN_2	34 58	8	7				
		CN	40 48	8	2				
		CE	41 48	9		3			
		F							Lost in changing
101	" 11	e	1 04 47						papers.
		e	10 43	9		3			
		eL	17.8	40					
		MN_1	19 10	31	71				
		ME_1	19 23	24		52			
		MN_2	26 24	22	21				
		ME_2	27 06	14		9			
		F	2 15						

(Continued on next sheet)

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		(See last sheet)		
A_E				
A_Z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
	Aug. 12	e?	10 17.6						
		eS	24 58	?					
		eL	37.9	20					
		ME	45 22	18		5			
		MN	45 45	18	8				
		F	11 10						
101	" 15	e	6 48.3						
		eL	7 01.0	23					
		MN	03 26	12	3				
		F	8 15						
104	" 16	eS?	20 44.6						
		eL	21 02.8	27					
		MN	13 09	20	7				
		F	21 40						
105	" 17	eP	12 16 23					2940 (26.4°)	h m s 0., 12 10 31
		eS	21 02						
		eL	24.7	30					
		MZ	25 40	23			11		
		ME_1	27 34	14		31			
		MN_1	27 59	14	29				
		ME_2	28 33	11		34			
		MN_2	38 02	10	14				
		ME_3	38 50	10		12			
		F	13 45						
106	" 19	eP	10 56 01	?				2260 (20.3°)	h m s 0., 10 51 17
		eS	59 46	7	1½	-			
			59 57	7	3	7			
		eL	11 02.4	17					
		MN	03 38	14	3				
		F	11 20						
107	" 19	e?	12 30 05						
		eS	34 50						
		eL	37.7	28					
		ME_1	41 32	15		25			
		MN_1	42 11	18	32				
		ME_2	43 19	13		33			
		MN_2	43 33	13	22				
		MZ	44 07	13			12		
		ME_3	45 34	11		19			
		CE	51 15	9		4			
		CN	52 20	9	5				
		F	13 45						

(Continued on next sheet)

Riverview College Observatory,

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

INSTRUMENTS:

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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	e : 1	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
108	Aug. 20	e?	18 21.2						
		eL	29.4	25					
		MN_1	31 49	13	22				
		ME_1	31 57	13		10			
		MZ	32 43	12			10		
		MN_2	34 17	10	17				
		ME_2	33 45	8		6			
		F	19 20						
109	" 20	e	19 29.5						
		e	33.3	5	1½	-			
		eL	34.7	?					
		MN_1	36 00	13	5				
		ME_1	36 16	13		11			
		ME_2	38 04	8		4			
		MZ	38 19	11			3		
		MN_2	38 24	10	55				
		F	20 25						
110	" 27	e	7 49.5						
		eL	50.9						
		MN_1	52 22	17	3				
		ME_1	52 57	17		5			
		ME_2	55 34	10		3			
		F lost in N°111							
111	" 27	eL	8 14.8						
		ME_1	15 53	16		4			
		MN	16 30	14	1½				
		ME_2	18 30	12		3			
		F	8 45						
112	" 28	eS	23 43 57						
	29	eSR_1	49 54						
		eL	0 06.4	31					
		MN_1	09 16	23	4				
		ME	09 54	21		7			
		F	2 30						

(Continued on next sheet)

Riverview College Observatory,

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

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
113	Aug. 29	e	4 39.2						A few long waves.
114	" 29	e?	20 19.9						
		e	24.2	10					
		eL	27.1	?					
		ME	29 49	12		7			
		MN	31 06	12	3				
		F	20 35						
115	" 29	e	21 55.7						
		eL	22 00.6						
		ME	01 17	10		1¼			
		F	22 20						
116	" 30	eP	2 56 18					5600?	
		eS?	3 03 33						
		eL	07.8						
		MN	08 32	16	4				
		F	3 15						
117	" 31	e	11 19.6						
		eL	22.4	20					
		ME	23 50	14		3			
		MN	24 02	19	6				
		F lost in N°118							
118	" 31	eL	11 32.5	24					
		MN	34 45	20					
		ME	35 51	13		9			
		F	12 35						
119	" 31	eL	12 58.9						
		MN	59 24	17	5				
		ME	13 01 22	13		2			
		F	13 20						

E. F. Pigot S.J.

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)	165	7.8	2.6	0.02
	(3)	126	8.7	3.4	0.03
A_E	(1)	183	7.6	1.8	0.01
	(3)	154	9.0	2.3	0.04
A_z	(2)	77	4.9	4.2	0.07

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude A_N μ	A_E μ	A_z μ	Δ km.	Remarks.
	1923								
120	Sep.1	iP	3 09 47	4	+3	-	-3	7680	Destructive earth-
			10 14	5	10	2	6	(69.1°)	quake in S.E. Japan
			10 51	7	8	4			
			12 34	9	9	6			
			15 22	9	9	5			iP, Dilatation.
		iS	18 51	10	-41	3			
		PS	19 47	10	50	45			
		SR_1	24 36	11	24	39			h m s
		SR_2	27 14	10	28	53			0., 2 58 35
		eL	29.3	37					
		MN_1	30 33	15	100				
		ME_1	30 45	21		340			
		MN_2	32 34	22	240				
		ME_2	32 47	29		750			PR_1, PR_2.....absent.
		MN_3	33 39	22	650				
		MZ_1	33 45	24			434		
		ME_3	34 11	17		440			
		MZ_2	36 01	25			570		
		MN_4, ME_4	36.3	18	470	510			
		ME_5	37 47	16		360			
		MN_5	38 55	16	260				
		MN_6	40 08	15	230				
		MZ_3	41 14	17			255		
		ME_6	41 30	15		260			
		MN_7	42 33	16	270				
		ME_7	43 20	15		300			
		MN_8	44 08	15	280				
		MZ_4	44 14	18			215		
		MN_9	46 30	15	165				
		ME_8	47 39	15		230			
		MZ_5	49 01	14			48		
		MN_{10}	49 28	15	110				
		ME_9	49 59	13		93			
		ME_{10}	51 18	13		80			
		ME_{11}	53 14	15		174			
		MN_{11}	53 12	15	94				
		MN_{12}	59 14	14	84				
		ME_{12}	59 29	15		90			
		ME_{13}	4 01 40	15		108			
		MN_{13}	03 14	14	83				
		ME_{14}	08 38	15		85			
		MN_{14}	09 45	13	48				
		ME_{15}	15 52	15		80			
		MN_{15}	18 55	14	60				
		ME_{16}	20 30						

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No.

Riverview College Observatory,

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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		(See last sheet)		
A_E				
A_Z				

No.	Date. 1923	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
120	Sept. 1	C_1	h. 4 m 26.s1	15	μ 24	μ 75	μ 92	km.	(It is interesting
	(Cont.)	C_2	30.4	15	43	44	57		to record the fact
		CN_3	33 33	15	46				that the late Dr. F.
		CE_3	43 40	15		36			Omori, the great Jap-
		CN_4	44 33	15	31				anese seismologist,
		CE_4	48 59	15		20			was our guest at
		CN_5	51 14	15	15				Riverview at the time
		eW_2	5 26.1						of the disaster, and
	W_2 waves	MN_1	26 39	29	16				saw the later waves, -
		ME_1	29 34	17		5			about the time of
		ME_2	34 26	16		14			ME_{12}-, being record-
		MN_2	36 43	17	9				ed on the seismo-
		ME_3	38 00	17		12			graphs.)
		MN_3	50 51	17	9				
		F	9 35						
									h m s
121	" 2.	eP	2 57 44					7780	0.,2 46 27
		iS	3 06 53	6	-8	-43		(70.0°)	
		PS	07 36	7	6	3			
			08 05	11	30	15			
		eL	19.4	23					
		ME_1	22 47	17		36			
		MN_1	24 25	21	53				
		MZ	26 59	17			22		
		ME_2	28 03	14		37			
		MN_2	28 10	17	90				
		ME_3	31 36	14		28			
		MN_3	32 36	17	38				
		ME_4	33 21	14		27			
		MN_4	33 34	16	40				
		ME_5	39 15		32				
		ME_6	45 15	14		27			
		CN	4 01 40	17	29				
		CE	02 57	19		15			
		eW_2	5 16.6	23					
	W_2 waves	MN	25 48	19	3				
		ME	27 09	18		3			
		F	6 00						
122	" 2	eP?	9 38 11						
		eS	47 10	6	2	-		7580?	
		eL	59.6	23					
		MN	10 05 44	21	11	~~15~~			
		ME	06 40	19		15			
		F	11 05						

(Continued on next sheet)

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	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
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.
	1923								h m s
123	Sept. 9	eP	22 16 05	5	-	1		9020	0., 22 03 39
		eS	26 17	6	1	1		(81.2°)	
			26 24	6	6	2			
		eL	39.6	40					
		MN_1	43 55	32	50				
		ME_1	44 52	32		47			
		MN_2	49 51	22	21				
		ME_2	53 02	20		17			
		ME_3	58 40	20		24			
		F	23 55						
124	" 12	e(P?)	6 01 28						
		e(S?)	07 16	7	1	-			
			07 26	7	7				
		MN_1	08 24	10	3				
		ME_1	10 24	7		4			
		MN_2	11 05	11	3				
		ME_2	12 38	8		5			
		F	7 00						
125	" 16	eP	16 41 20	3	1	1		3420	(Banda Sea?)
		PR_1	42 30	7		3		(30.8°)	
		eS	46 32	8	2	1			h m s
		i	46 38	8	+8	-8			0., 16 34 44
		PS	47 04	11	7	8			
		eL	49.4						
		ME_1	49 56	8		8			
		ME_2	51 28	7		18			
		MN_1	51 40	8	47				Short wave-lengths.
		MN_2	52 47	6	49				
		MZ_1	53 10	6			22		
		ME_3	53 18	6		128			
		MZ_2	54 12	5			20		
		MN_3	54 18	5	61				
		ME_4	54 52	6		80			
		MZ_3	55 44	6			18		
		ME_5	56 04	8		87			
		MN_4, MZ_4	56.2	6	67		36		
		MN_5	57 08	7	39				
		ME_6	58 14	7		52			
		MN_6	59 53	7	24				
		ME_7	17 00 41	7		42			
		MN_7	02 30	8	16				
		CE_1	07 25	9		14			
		CN_1	07 36	10	12				
		CE_2	11 17	8		9			
		CN_2	11 30	9	7				
		F	19 20						

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

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
125	Sept. 17	e(L?)	8 08.7	24					
		ME	16 47	18		8			
		MN	18 40	16	4				
		F	8 40						
127	" 19	eP	8 27 36	4	-	1		2940	h m s 0., 8 21 44
		iP	27 40	4	-	+3		(26.4°)	
		e	29 05	5	-	2			
		iS	32 15	5	-7	-			
		i	37 28	6	4	-			
			37 36	6	7	3			
		MN	40 36	8	4				
		ME	41 44	8		1			
		F	8 55						
128	" 22	eP?	15 03 35						
		eS	08 42	10	1	-			
		eL	10.9	20					
		ME_1	13 28	15		31			
		MN_1	13 47	15	22				
		MN_2	15 47	12	18				
		ME_2	16 11	12		25			
		ME_3	20 10	10		10			
		CN	32 24	9	1				
		CE	35 13	9		1			
		F	16 10						
129	" 22	e	21 16.2	7	-	1			
		eL	35.1	44					
		MN_1	37 57	32	27				
		MN_2	44 08	20	7				
		ME_1	45 31	22		16			
		ME_2	49 43	20		17			
		ME_3	54 44	18		16			
		F	22 55						
130	" 23	eP	17 51 58					2460?	Very short wave-lengths.
		e(S?)	56 00	4	1	-			
		MN	57 14	5	2				
		ME	18 00 19	7		1			
		F	18 10						

(Continued on next sheet)

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

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
	1923		h. m. s.	s.	μ	μ	μ	km.	
131	Sep. 24	e(L?)	3 31.6	18					
		ME	37 52	12		2			
		F	3 45						
132	" 26	iS	8 43 55	7	-	-3			
		eL	54.0	26					
		ME_1	55 58	20		17			
		MN_1	59 54	18	8				
		ME_2	9 00 23	17		9			
		MN_2	05 28	13	4				
		ME_3	05 51	15		8			
		F	10 20						
133	" 27	eP	7 09 37					5320 (47.9°)	h m s 0., 7 00 44
		eS	16 37	6	1	1			
		eSR_1	20 07	12	1	1			
		eL	25.2	20					
		ME_1	29 30	17		5			
		ME_2	33 55	16		6			
		MN	38 51	15	3				
		ME_3	39 09	15		5			
		F	8 15						
134	" 30	e	1 48.0	6	1	1			
		eL	2 25.8	55					
		ME_1	28 11	50		38			
		MN_1	37 51	40	22				
		ME_2	39 19	34		22			
		MN_2	40 15	33	21				
		eW_2	42.6	36					
		MW_2	43 54	36					
		MN_3	45 54	20	17				
		ME_3	51 10	22		20			
		MN_4	3 01 27	16	4				
		ME_4	01 34	16		8			
		CE_4	19 00	16		4			
		F	4 25						

E. F. Pigot Sy.

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)	173	8.0	2.8	0.017
(3)	130	8.6	4.0	0.02
A_E (1)	158	7.7	3.6	0.015
(3)	182	9.0	2.6	0.04
A_Z (2)	81	4.8	4.7	0.05

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1923								
135	Oct. 1	iP	22 33 12	4		-2½		2910	
			34 45	8		8		(26°2)	
		eS	37 40	?		2			
		PS	38 01	?	4	12			
		SR_1	39 03	10	4				
		eL	39.8	24					
		ME	40 31	20		37			
		MN	41 16	18	31				
		MZ	41 31	18			25		
		F	23 50						
136	" 6	e?	07 43.9						
		eL	50.2	20					
		MN	52 49	12	4				
		ME	54 03	?					
		F	08 10						
137	" 7	iP	03 36 59	6	+4½	-3½		4310	
		PR_1	38 34	7	5½	5		(37°8)	
		eS	42 47	8	2½	2			
		i	42 51	8	+24				
		PS	43 14	10	39	27			
			46 10	11	88	60			
		eL	47.6	30c					
		ME_1	50 20	24		600			
		MZ_1	52 51	24			330		
		MN_1	53 28	22	590				
		ME_2	54 45	16		670			
		MZ_2	55 31	18			510		
		ME_3	55 45	16		790			
		MN_2	56 05	15	700				
		eN_2	06 21.8						
		ME	27 51	20		5			
		MN	33 07	20	5				
		F	06 55						
138	" 7	e	08 18.7						
		eL	24.4	20					
		ME	25 12	12		4			
		MN	27 14	12	3				
		F	08 40						
139	" 10	e(S)	22 12 04						
		eL	15.9	16					
		ME	18 40	14		8			
		MN	19 05	13	4				
		F	23 15						

(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		
	1923		h. m. s.	s.	μ	μ	μ	km.	
140	Oct.15	eP_E	07 39 29	4				4180	
		PR_1E	41 03	4		2		(37°.6)	
		eS_{NE}	45 16	8					
		mNE	45 25	8	1	3			
		eL	52.0	22					
		ME	55 41	18		28			
		MNZ	56.3	15	45		23		
		F	Lost in No.141						
141	" 15	eL	08 16.7	20					
		ME	21 47	18		36			
		MN	22 04	18	54				
		MZ	22 16	15			23		
		F	09 50						
142	" 17	e?	05 50.0						
		eL	56.2	16					
		ME	06 01 16	12		3			
		MN	04 31	12	2				
		F	?						
143	" 17	eL	06 50.4	18					
		MN	52 35	10	2				
		ME	54 10	12		3			
		F	07 50						
144	" 18	$e(P)_E$	21 09 59						
		$e(S)_E$	14 55	8?					
		eL	17.4	17					
		ME	20 22	15		5			
		MN	24 18	12	2				
		F	22 00						
145	" 21	e	22 32.8						
		ME	42 59	10		1			
		F	?						
146	" 22	eP_N	05 30 56					2820	
		eS_E	35 18	6				(25°.4)	
		mNE	35 32	11	4	9			
		eL	37.0	20					
		ME	38 44	9		4			
		MN	40 09	13	7				
		F	07 40						
147	" 29	eL	19 54.5	19					
		ME	58 10	12		1			
		F	?						

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)	170	8.0	3.0	0.018
(3)	122	8.6	3.2	0.03
A_E (1)	170	7.6	4.6	0.01
(3)	160	9.0	2.1	0.04
A_Z (2)	82	4.8	4.0	0.06

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1923								
148	Nov. 2	eP	21 13 56	4				3210	
		iP$_{NZ}$	14 00	4	-8½		-13	(28°·9)	Dilatation.
		PR$_1$NEZ	14 43	10	37	7	64		
		mN	15 20	12	76				
		iS$_{NE}$	18 43	6	-27	-16			
		mN	18 57	9	67				
		iNE	19 17	9	-132	+79			
		iSR$_1$E	19 51	8		+122			
		SR$_1$NZ	19 54	10	160		69		
		eL	20.4	28					
		NE1	22 22			1760			
		NZ$_1$	22 29	33			2540		
		MN$_1$	22 37	22?	1250?				
		ME$_2$	23 31	18		1140			
		MZ$_2$	26 08	18			1270		
		MN$_2$	27 54	18	1430+				
		eW$_2$	23 50 56	28					
		ME	54 23	20		7			
		MN	55 18	20	7				
		F	01 25						
149	" 3	e	02 45.7						
		ME	52 15	13		4			
		MN	53 12	15	5				
		F	03 10						
150	" 3	e(S)	04 58 51	5					
		eE	59 36	14					
		eL	05 03.4	23					
		MZ	04 09	20			20		
		ME	04 15	15		17			
		MN	04 25	22	20				
		F	05 50						
151	" 3	eP$_N$	16 30 12	3				7010	
		eS$_Z$	38 39	7				(63°·1)	
			39 00	6	3				
			40 15	6	3				
			40 30	10		5			
		eL	48.4	30					
		MN$_1$	52 30	30	40				
		ME$_1$	52 49	18		25			
		MN$_2$	53 57	24	60				
		ME$_2$	55 23	21		64			
		MZ	55 59	21			45		
		F	18 20						

(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.
	1923								
152	Nov. 4	iP_{NZ}	00 10 24	4	-2		-2½	3235	Dilatation.
		iS_{NE}	15 12	8	-17	-13		(29°.1)	
		mN	15 22	14	135				
		mNZ	15 45	15	215		57		
		eL	17.3	32					
		ME_1	19 10	12		130			
		MN_1	19 33	24	550				
		MZ	19 37	24			270		
		MN_2	22 34	12	87				
		eW_2	02 45.5	28					
		MN_1	47 46	28	14				
		MN_2	52 41	26	12				
		F	03 20						
153	" 4	eP?	12 02 06						
		e(S)	07 36	9					
		eL	08.4	17					
		MN	10 22	12	3				
		ME	15 17	12		2			
		F	12 45						
154	" 4	e	20 09.0						
		e(S)	13 59	6					
		eL	16.9	26					
		ME	18 27	16		33			
		MZ	19 03	18			18		
		MN	19 10	18	26				
		F	21 15						
155	" 4	eP?	22 20 19						
		eL	28.0	26					
		ME	29 06	14		12			
		MN	31 08	14	12				
		F	23 20						
156	" 5	e_E	21 39 40						Heavy microseisms present.
		eS_{NE}	47 28	12					
		SR_1N	51 43	10	9				
		eL	57.3	29					
		MN	22 01 12	29	125				
		MZ	02 23	26			35		
		ME	05 24	18		130			
		F	23 15						
157	" 6	e(P)	00 27 59						
		eL	32.1	13					
		MNE	33 12	11	2	8			
		F	00 45						
158	" 7	e	04 03 02						
		ME	06 40	9		3			
		MN	09 15	9	2				
		F	04 25						
159	" 10	eP_{NE}	21 27 34					2620	
		iP_{NEZ}	27 38	5	-5	-6	+1	(23°.6)	Compression.
		eS_N	31 44						
		i_{NE}	31 51	7	+12	+10			
		mNE	31 57	8	10	14			
		eL	34.2	18					
		MN	35 07	12	18				
		ME	35 15	14		13			
		F	22 15						
160	" 11	e	15 48.5						A few long waves.

(Concluded 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.
	1923								
161	Nov.13	e	11 57.3						
		MN	12 01 39	14	2				
		F	12 10						
162	" 18	ePNE	21 48 31	8					
		eL	59.7	20					
		MN	22 07 05	18	5				
		ME	08 37	18		8			
		F	23 10						
163	" 20	e	17 26.4						
		ME	29 26	10		2			
		MN	32 20	10	2				
		F	17 45						
164	" 24	e	05 14 23						
		e	19 51						
		MNE	21.6	8	1	1			
		F	05 35						
165	" 24	eL	22 35.7	18					Early phases lost during change of records.
		MN	37 24	14	3				
		ME	38 32	12		2			
		F	23 20						
166	" 26	e(P)	06 13 27						
		eS	17 51	7					
		eL	19.1	24					
		MN	22 21	8	7				
		ME	22 30	10		15			
		F	07 45						
167	" 26	e	12 52.0						
		eL	56.5	22					
		MN	57 58	20	3				
		ME	58 42	17		5			
		F	13 30						

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	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	(1)	156	8.3	2.7	0.02
	(3)	120	8.8	4.7	0.03
A_E	(1)	168	7.9	4.3	0.01
	(3)	162	9.0	2.8	0.03
A_Z	(2)	79	4.9	4.7	0.06

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1923								
168	Dec. 2	eP_{NE}	14 41 36	4				2600	
		i_{NE}	41 44	4	+5	+7		(23°4)	
		m_E	41 49	4		6			
		eS_{NE}	45 43	8					
		iS_Z	45 48	8		+13			
		iS_E	45 49	8	-4				
		m_N	46 35	10	9				
		e_L	46.8	20					
		M_N	48 30	16	41				
		M_Z	48 38	18			32		
		M_E	49 01	16		33			
		F	16 40						
169	" 3	e(P)	08 00 25						
		e(S)	03 56						
		M_N	09 00	20	13				
		M_E	09 54	20		17			
		M_Z	10 41	15			11		
		F	08 50						
170	" 5	eP	22 43 18					4480	
		iS_E	49 23	6		-5		(40°3)	
		e_L	53.0	20					
		M_{NE}	58 00	18	67	73			
		F							
171	" 7	eP	23 47 05	4				5520	
		eS	54 10	6				(49°7)	
		e_L	59.0	17					
		M_E	00 00 49	13		5			
		M_N	03 09	11	3				
		F	00 55						
172	" 11	e_N	05 18 05	5					
		$e(S)_E$	21 52	8					
		m_N	22 26	13	7				
		e_L	25.6	28					
		M_E	27 17	21			23		
		M_E	27 35	20		20			
		M_N	28 05	20	22				
		F	06 20						
173	" 17	e?	19 59.2						
		M_N	20 01 07	9	1				
		M_E	01 21	9		2			
		F	20 15						

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude.			Δ	Remarks.
					A_N	A_E	A_Z		
	1923		h. m. s.	s.	μ	μ	μ	km.	
174	Dec. 19	e(S)	19 19 07						
		eL	24.5	24					
		ME	30 09	20		10			
		MN	31 53	19	10				
		F	19 50						
175	" 21	e	14 26.0						
		ME	26 28	6		3			
		ME	29 42	8		1			
		MN	31 12	10	2				
		F	14 40						
176	" 22	e	11 00.9	20					A few long waves.
		F	11 15						
177	" 23	eL	09 53.4	20					
		ME	54 21	18		5			
		MN	54 56	14	3				
		F	10 25						
178	" 26	eL	14 17.5	18					
		ME	18 20	14		2			
		MN	19 29	15	3				
		F	14 30						
179	" 26	eL	14 36.8	20					
		MNE	38.6	14	3	2			
		F	14 45						
180	" 27	eP	10 34 36	4					
		ME	41 10	16					
		MN	41 42	16	4				
		F	11 00						
181	" 31	eL	15 42.7	20					
		MN	45 15	14	3				
		ME	47 40	14		3/			
		F	16 30						