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)	149	7.9	6.7	0.02
(3)	127	10.0	4.2	0.02
A_E (1)	161	7.1	3.2	0.03
(3)	120	10.0	8.0	0.05
A_Z (2)	90	4.7	4.0	0.06

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
1	Jan. 11	I_r	iP	11 50 18	4	±2½	¼		3250	
			S	55.3	12	8	1½			
			PS	55 38	12	10				
			eL	57.2	21					
			ME	59 30	12		10			
			MN	12 00 19	12	10				
			MZ	01 12	12			6		
			F	12 25						
2	" 14	I_r	eP	19 22.4	5				2000	
			iS	25 49	9	+1½				
			iPS	26 12	9	+16	+4½			
			eL	28.6	15					
			MN	31 16	12	4				
			ME	32 16	12		3			
			F	19 45						
3	" 17	I	e(S?)	2 51.9	7	1				
			e(SR_1?)	54.6	11	2				
			eL	59.8	19					
			MN	3 03 24	14	11				
			ME	04 01	12		3			
			F	3 40						
4	" 17	I	e?	4 45.7						
			MN_1	57 09	10	2				
			ME	58 38	12		1½			
			MN_2	59 41	10	2				
			F	5 15						
5	" 19	I_r	eP?	23 03.6					4200?	
			S	09 37	8	1½				
			eL	13.4	17					
			MN	15 09	12	3				
			ME	15 47	12		1½			
			F	23 40						

(Continued on next sheet)

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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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
6	Jan. 20	II_r	iP	23 19 33	4	+4½	-5	-7½	4600	
	21		i	19 40	4	-8	+9½	-10		
			PR_1	21 07	4	6	8	6½		
			eS	25.9	7	3½	3			
			iS	26 06	7	+16	-11			
			SR_1	28 58	10	14	3			
			eL	34.9	20					
			MN_1	35 24	16	115				
			MZ_1	38 05	16			24		
			ME_1	38 22	14		22			
			MN_2	38 28	14	100				
			MN_3	40 07	13	100				
			ME_2	)						
			MZ_2	41 05	12		14	19		
			F	1 25						
7	" 21	I	e?	22 30.2						
			MN_1	36 07	10	1				
			ME	37 18	9		½			
			MN_2	45 50	8	1				
			MN_3	51 28	9	1				
			F	23 05						
8	" 25	I	eL	8 24.7	30					
			M	30 29	18	6				
			F	8 40						
9	" 28	I_r	eP	23 52.4	4	2	½		2500	
			eS	56.5	7	2½	-			
			eL	57.3	22					
			MN_1	58 29	18	64				
			MZ	58 44	18			42		
			MN_2	00 00 36	12	48				
			ME	02 16	8		12			
			F	1 25						

(Continued on next sheet)

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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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
10	Jan. 30	III_u	iP	2 58 42	4	-4½	-	1	9280	Kamtchatka.
			i	58 56	4	-11	-	-6		
			PR_1	3 01 54	7	2	-			
				02 23	7	4	-			
			eS	09 06	11	15	-			
			iS	09 37	11	-52	+44			
			PS	09 51	11	40	35			
			i	15 40	13	+45	-51			
			$i(SR_2)$	15 52	13	-80	-12	15		
			eL	23.4	36					
			MN_1 MZ_1)	28 03	32	875		885		
			ME_1	28 21	28		270			
			MN_2	30 33	24	755				
			MZ_2	31 00	24			710		
			ME_2	32 21	20		280			
			MZ_3	33 11	20			585		
			MN_3	33 17	20	855				
			ME_3	37 42	17		275			
			MN_4	42 38	16	305				
			CE_1 CN_1)	52 03	16	100	78			
			CE_2	4 00 23	14		10			
			CN_2	00 29	14	53				
			F	7 10						
11	" 30	I	e	8 15.5	15					
			e	19.8	14	1				
			e	23.5	14	2				
12	" 31	II_u	iP	4 04 37	4	+7	+2	-1½	5000	S. Mindanao.
			iPR_1	10 27	5	+6	1			
			iS	15 20	8	-8	-			
			iPS	15 42	8	-7	+5			
			$i(SR_1)$	18 46	10	15	+16			
				19 46	8	13	-			
			eL	25.2	16					
			MZ	29 44	18			62		
			ME MN)	30 06	16	82	35			
			F	5 50						

The following was omitted from last sheet :-

7a	" 24	I	e	1 12.6	A few long waves					Hochan (China).

E.F. Pigot S.J.

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	(1)	150	7.8	5.9	0.02
	(3)	129	9.9	5.1	0.02
A_E	(1)	159	7.1	2.8	0.02
	(3)	130	9.7	6.0	0.04
A_z	(2)	92	4.8	4.2	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.
[illegible]	1917								
3	Feb. 1	eL	12 10.5	12					
		M	12 33	10	2	½			
		F	12 35						
4	" 1	e	13 29.6	7	½				
		M	31 03	10	1				
		F	13 35						
5	" 4	e	9 54.5	5	1½				
		eL	10 04.0	?					
		MN	06 06	14	2				
		F	10 30						
	" 4	e?	10 36.0						
		e	45.6	7	1				
			46 10	7	4½	1			
		M	53 08	12	1½				
		F	10 20						
17	" 5	e(PR$_1$?)	12 28.6	6	½	-			
		iS	34 11	6	-	-3			
		iPS	34 37	6	-7	-11			
			35 01	6		8			
		SR$_1$	36 33	7	3	7			
		eL	36 55	16					
		MN	37 47	12	25				
		ME	38 24	10		9			
		F	13 20						
18	" 8	e	11 10.9	2	½	-			
		e	15.1	7	1				
			15 37	5		½			
			16 07	7	1				
		eL	17 35	12					
		MN	20 26	10	⅓				
		F	11 50						
19	" 8	e	12 41.0	25					A few long waves.
20	" 12	eP	9 08.0	4	1	½		2500	
			08 10	4	2	3		(22.5°)	
			08 26	8	2	2½	1½		
		iS	12 05	8	-22	-3½			
		PS	12 18	8	43	30	3½		
		eL	13.7	28					
		M$_1$	14.3	18	25	45			
		MZ	15 23	18			20		
		ME$_2$	15 41	16		57			
		MN$_2$	19 61	12	38				
		F^2	11 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:

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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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
21	Feb. 12	eP	22 56 22	4	½	¼		2540	
		eS	23 00 24	7	¼	½		(22.0°)	
			23 00 31	7	2	1			
		eL	02.1	16					
		MN_1	03 16	14	3½				
		ME	03 55	14		2			
		MN_2	05 00	11	3				
		F	23 55						
22	" 13	eP	3 57.4					2600	
		S	4 01 35	8	1	½		(23.4°)	
			01 42	8	1	1			
		eL	04.0	15					
		MN	05 19	12	4				
		ME	05 58	12		½			
		F	4 40						
23	" 14	eP	5 07 18	?				3750?	
		S?	12 51	?					
		eL	19.1	22					
		MN	22 03	16	5				
		ME	25 57	15		2			
		F	6 05						
24	" 15	eP	1 03.0	4	½	1			
		e(PS)	16.0						
			16 18	7	1	½			
		eL	32.5	26					
		MN_1	37 41	20	16				
		MN	41 47	16	12				
		ME_1^2, MZ	42.1	16		5	5		
		ME_2	44 05	16		4			
		MN_3^2	44 41	15	8				
		F	4 45						
25	" 15	eP	1 13.2	4	½	-			
		eL	20.9	16					
		M	25 55	16	4				
		F lost in N°24							
26	" 16	eP	14 21.1					2600	
		S	25 20	7	½			(23.4°)	
		PS	25 30	7	1				
		eL	28.5	14					
		MN	29 28	10	2				
		ME	31 30	11		½			
		F	14 55						
27	" 16	eP	14 57.9	4	½	½		2600	
		S	15 02 07	8	-	¼		(23.4°)	
		eL	05..7	12					
		M	06 37	11	2				
		F	15 25						

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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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
28	Feb. 18	eP	1 31 32					5300	Philippine Is.
		S	38 32	9	1¾	1		(47.7°)	
		SR_1	42 01	11	1½	2			
		eL	47.0	18					
		MN	47 38	15	4				
		ME	53 41	11		1½			
		F	2 25						
29	" 20	eP	15 09.0					4700	
		eS	15.4					(42.3°)	
		eL	20.5	20					
		ME	21 19	14		7			
		MN	22 46	14	3				
		F	16 35						
30	" 20 21	eP	19 45.2	4				16,000	Caribbean Sea.
		eS	20 00.6	?					
		eL	25.4	35					
		MN_1	26 59	24	6				
		MN_2	39 15	22	7				
		ME_1	40 35	18		5			
		MN_3	43 09	17	4				
		ME_2	46 51	16		8			
	W2 series:-								
	(L rep.1)	eW_2	21 09.1	22					
		MN_1	10 03	20	9				
		ME_1	14 07	18		7			
		MN_1	19 12	18	8				
		ME_2	25 08	16		5			
		F	0 35						
31	" 20	eP	19 52 38	5	-	~~1¼~~			
			53 22	6					
		eS	20 00 55	7					
		eL	09.3	20					
		M	12.4	16	1¼	1¼			F. lost in N°30
32	" 21	eP	10 05 56	5					
		eSR_1	17 53	?					
		eL	30.3	22					
		ME	34 34	18		3			
		MN	34 56	18	5				
		F	11 50						
33	" 21	eP	11 08 44	4				3420?	
		e(S?)	13 56	7		7			
		eL	14.8	?					
		MN	16 22	?					
		F Lost in N°32							

(Continued on next sheet)

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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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
34	Feb. 21	eP	14 05 43					2370	
		eS	09 38					(21.3°)	
		eL	11.2	10					
		ME	11 25	8		8			
		MN	12 34	8	1½				
		F	Lost in N°35						
35	" 21	eL	14 14.1	18					
		ME	15 17	14		4			
		MN	15 31	14	8				
		F	14 55						
36	" 22	e(P?)	9 25.5						Chile.
		e(S?)	36.6	?					
		eL	10 01.0	28					
		ME	04 00	18		5			
		MN	05 30	19	7				
		F	10 55						
37	" 25	eP	5 29 35	6	1	½		5880	Philippines.
		eS	37 05	7	¾	1		(52.9°)	
			37 16	7	1½	2			
		eL	45.1	12					
		ME_1	46 10	8		1			
		MN_1	46 25	8	1				
		ME_2	50 52	12		3			
		MN_2	53 45	10	1				
		F	Lost in N°38						
38	" 25	eP	5 55 14	4	1	-		5880	Philippines.
		iS	6 02 44	7	-¾	-2		(52.9°)	
			02 52	7	3	4			
			06 49	10	4	4			
		eL	09.3	14					
		M_1	11.8	8	2	2			
		ME_2	16 30	15		7			
		MN_2	17 09	15	4				
		MN_3	22 15	12	2				
		ME_3	24 44	15		4			
		MN_3	27 32	14	3				
		ME_4	32 45	16		4			
		MN_4	33 21	14	2				
		F	7 20						
39	" 26	eP	9 06 36	5				2340?	
		PR	06 56	5	-				
		e(S?)	10 28	?					
		eL	13.3	20					
		M_1	16.3	16	10				
		MN_2	19 28	12	6				
		ME_2	25 04	13					
		F	10 35						

Edward F. Pigot

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2. Wiechert Vertical Seismometer (80 kilo.)
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4. **Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)**

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	151	7.8	5.1	0.02
A_E (1)	157	7.1	2.5	0.02
A_z (2)	95	5.0	4.4	0.05

No.	Date.	Phase	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude A_N μ	Amplitude A_E μ	Amplitude A_z μ	Δ km.	Remarks.
	1917								
40	March 1	e(S?)	5 11.5						
		eL	14.7	15					
		MN_1	15 27	15	4				
		ME_1	18 23	11		5			
		MN_2	18 36	11	3				
		F	5 55						
42	" 2	e?	1 06.7						
		eL	14.8	12					
		ME	15 45	9		1			
		MN	16 25	10	1				
		F	1 35						
42	" 3	eP	5 05 34					2480	
		iS	09 38	7	-½	+1¾		(22.3°)	
		PS	09 47	7	1	3			
		eL	10.9	20					
		MN	11 51	16	2				
		ME	12 34	16		4			
		F	5 50						
43	" 6	eP	5 36 55	4	-	1½		1350?	
		e(S?)	39 18	6	1	-			
		eL	40.6	16					
		MN_1	41 00	12	2				
		MN_2^1	45 03	13	3				
		F	6 20						
44	" 9	e	12 11.6						Short wave-lengths.
		ME	17 51	5	2				
		MN	18 11	5	1½				
		F	12 40						
45	" 12	e(L?)	7 28.0	16					
		MN	34 03	12	2				
		F	7 45						

(Continued on next sheet)

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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				
A_E		(See last sheet)		
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1917		h. m. s.	s.	μ	μ	μ	km.	
46	March 15	eP?	0 25 49	?					
		eS	35 13	8	1	1			
		eL	47.5	19					
		ME_1	51 45	16		8			
		MN_1	56 38	12	2				
		ME_2	57 03	15		4			
		MN_2	59 59	16	5				
		MN_3	1 03 57	14	3				
		ME_3	08 40	14		3			
		F	8 35						
47	" 18	eL	19 56.5	16					
		MN	57 11	14	2				
		ME	58 28	16		2			
		F	20 15						
48	" 21	eL	8 02.8	?					
		ME_1	04 24	16		4			
		ME_2	06 24	12		2			
		MN	08 55	?					
		F	8 15						
49	" 22	eL	4 00.1	20?					
		ME	03 01	15		3			
		MN	03 11	15	2				
		F	4 40						
50	" 24	eP	17 23 33	4	½	-		2390	
		PR_1	23 50	8	1	2		(21.5°)	
		eS	27 29	5	½	1			
		PS	27 38	5	½	½			
		eL	28.7	18					
		ME_1	30 48	16		5			
		MN_1	31 50	11	5				
		ME_2	36 22	12		5			
		MN_2	39 36	10	4				
		ME_3	44 50	12		6			
		MN_3	46 21	11	3				
		F	18 50						

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	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	147	7.8	5.1	0.01
A_E (1)	153	7.1	2.8	0.02
A_z (2)	97	4.8	4.0	0.06

No.	Date.	Phase	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1917		h. m. s.	s.	μ	μ	μ	km.	
51	Apr. 2	e	8 11.0	4	2				
		eL	14.2	18					
		MN	16 07	16	10				
		ME	16 27	16		5			
		F	8 50						
52	" 2	eP	19 57.0						Felt at Albury, Adelong, &c. (New South Wales)
53	" 3	e(S?)	12 49 24	10	1	½			
		eL	55.7	20					
		MN_1	57 11	16	3				
		MN_2	13 00 45	14	9				
		ME_1	01 45	18		14			
		MN_3, ME_2	05.1	6	2	3			
		ME_3	08 15	14		9			
		MN_4	11 15	12	6				
		F	14 30						
54	" 8	eL	5 44.0	14					
		ME	46 08	8		½			
		MN	46 28	10	1				
		F	6 00						
55	" 8	eL	6 36.5						
		ME	37 41	8		2			
		MN	38 54	12	1				
		F	4 50						
56	" 12	e	3 42.6						
		MN	44 29	12	½				
		ME	49 07	14		1			
		F	3 50						
57	" 16	e(P?)	19 02 57	4	½				
		e(PS?)	12 40	8	3				
		eL	17.9	16					
		MN_1	20 28	12	1				
		ME_1	22 29	14		4			
		MN_2	26 15	14	2				
		ME_2	26 32	14		4½			
		F	20 05						
58	" 19	e	4 09 35						
		i	16 00	4	+3	+½			
		MN	16 00	14	4				
		ME	20 18	10		8			
		F	4 45						

(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				
A_E		(Continued on next sheet)		
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.
	1917								
59	Apr. 23	e(P?)	6 35 31					3990?	
		eS	41 18	8					
		eL	44.7	?					
		ME_1	46 22	14		4			
		MN_1	48 40	12	5				
		ME_2	50 23	10		2			
		F	1 30						
60	" 25	eP	7 55 29	4	½	½		3790?	
		e(S?)	8 01 04	8	3	1			
		eL	02.4	16					
		MN_1	03 39	8	8				
		MN_2	06 08	10	8				
		ME_1	07 12	14		9			
		MN_2	08 05	8		4			
		F	11 10						
61	" 27	e(P?)	0 02 26					4290?	
		eS	08 30	7	½	1			
		eSR_1	09 12	6	2	¼			
		eL	11.6	14					
		M	12.9	10	4	8			
		F	1 40						
62	" 28	e(L?)	13 01.8	14					
		ME	03 13	9		3			
		MN	03 56	12	1½				
		F	13 30						
63	" 28	e(P?)	21 42 29	2					
		e(S?)	42 59	2?					
		M	43.3	4	1½	1½			
		F	21 50						
64	" 29	e(S?)	11 17.4	8	-	¼			
		eL	24.5	18					
		M_1	25.7	14	4	4			
		M_2	29.7	14	2	2			
		F	12 15						
65	" 29	eP	16 09 15	4	-	¼		3630	
		eS	14 41	8	-	½		(32.7°)	
		eL	17.1	18					
		ME	19 07	14		7			
		MN_1	19 17	16	22				
		ME_1	22 57	12		1			
		MN_2	24 39	12	1				
		F	17 20						A few long waves.
	" 30	e	17 27.1						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)	144	7.7	5.1	0.02
	(3)	132	9.8	6.0	0.02
A_E	(1)	150	7.0	3.0	0.02
	(3)	144	9.5	8.0	0.04
A_z	(2)	99	4.7	3.6	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.
	1917								
67	May 1	eP	18 32.1	4	-	2	½	3700 (33.3°)	Az. 269°
		i	32 25	4	-	-12			
		i	32 31	4	+1	+59	-50		
		PR$_1$	33 41	5	19	97	18		
		iS	37 35	7	+69	+30	+18		φ 27°S.
		eL	39.1	30					λ 171°W.
		M$_1$	39 49	22	1260	500	710		
		M$_2$	40 30	22	1900	1760	2200		
		MN$_3$, MZ$_3$	41 30	18	1150		2540		Computed time at origin:- h m s 18 25 12
		ME$_3$	41 35	18		1700			
		ME$_4$	44 28	16		1040			
		MN$_4$	45 39	12	360				
		ME$_5$	48 06	16		750			
		MN$_5$	50 16	11	300				
		MZ$_6$, MZ$_4$	54 02	14		800	50		
		MN$_6$	54 20	10	370				
		C$_1$	58 35	14	210	250			
		C$_2$	19 06 01	14	142	210			
		C$_3$	12 20	11	103	108			
		C$_4$	19 30	15	142	170			
		C$_5$	29 20	12	80	95			
		F	23 00						
68	" 2	eP	0 19.9	4	-	-		4330 (39.0°)	
		eS	26.0	8	½	-			
		eL	29.3	16					
		MN	30 28	12	1				
		ME	31 33	12		4			
		F lost in N°.69							
69	" 2	e	1 08.0	4	-	2			
		MN	16 43	12	1				
		ME	21 28	12		6			
		F lost in N°.70							
70	" 2	eP	1 27.2	4	¼	¼		4220 (38.0°)	
		eS	33.2	8	3	2			
		eL	34.7	20					
		MN$_1$	35 28	14	28				
		MZ	36 29	15			9		
		ME$_1$	36 36	15		50			
		MN$_2$	38 28	12	28				
		ME$_2$	39 22	12		36			
		F lost in N°.71							
71	" 2	eP	2 32.2	4		1½			
		eL	40.8	16					
		MN	42 18	12	14				
		MZ	44 26	12			3		
		ME	44 45	12		18			
		F lost in N°.72							

(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:

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.
			h. m. s.	s.	μ	μ	μ	km.	
	1917								
72	May 2	eP	3 02.8	5		2			
		eL	10.5	20					
		ME_1	12 32	16		45			
		MN	14 47	12	14				
		MZ	17 25	12			6		
		ME_2	18 13	12		25			
		F lost in N°73							
73	" 2	eP	4 28.1	4					
		eL	36.6	16					
		MZ	40 31	12			6		
		ME	40 50	14		33			
		MN	42 24	12	15				
		F lost in N°74							
74	" 2	eP	5 48.5	4		1			
		ME	58 58	10		3			
		MN	6 02 36	10	4				
		F	6 55						
75	" 2	eL	11 15.4	20					
		ME	18 48	12		1			
		MN	20 43	8	½				
		F	11 40						
76	" 2	eP	14 16 30	4		½		2680	
		S	21 49	?				(24.1°)	
		eL	24.3	24					
		MZ	25 11	12			½		
		MN_1	26 38	12	21				
		ME_1	27 01	14		23			
		ME_2	29 32	12		29			
		F	15 35						
77	" 3	e	2 49.2						
		MN	52 24	10	2				
		ME	55 54	12		1			
		F	3 10						
78	" 3	e?	5 17.5	4		1¼			
		e(S?)	22.0	?					
		eL	26.5	16					
		MN	27 28	12	17				
		ME	28 46	12		7			
		F	6 15						
79	" 3	e	6 56.5	4					
		MN	57 29	8	½				
		ME	7 01 02	10		2			
		F	7 15						

(Continued on next sheet)

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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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
80	May 3	eP	11 29.4	4		2			
		eL	35.2	18					
		MN	36 35	12	7				
		ME	38 51	14		11			
		F lost in N°81							
81	" 3	e	11 58.3						
		MN	59 49	12	4				
		ME	12 01 54	12		4			
		F	12 15						
82	" 3	e	20 25.4						
		eL	35.7	20					
		MN	38 41	14	8				
		ME	41 20	12		4			
		F	21 00						
83	" 4	eP	0 48 43	4	-	1		3240	
		PR_1	49 45	4	-	5		(29.1°)	
		eS^1	53 43	8	3	2			
		eL	55.2	24					
		MN_1	57 00	14	60				
		ME_1	57 22	16		60			
		MN_2	58 55	13	136				
		MZ_1	59 45	12			59		
		ME_2^1	1 00 08	14		176			
		MZ_2	01 24	14			72		
		ME_3^2	01 34	13		180			
		MN_3	03 14	12	48				
		MZ_3	05 17	12			41		
		ME_4	05 24	13		124			
		MN_4	09 06	11	30				
		ME_5^4	09 32	12		60			
		C	33.5	12	7	13			
		F	4 05						
84	" 4	eL	7 20.4	20					
		ME_1	22 39	12		1			
		MN_1	23 10	12	¾				
		ME_2	24 51	12		3			
		F	7 50						
85	" 4	e	14 02.3	8	-	½			
		eL	07.5	16					
		MN	08 41	14	8				
		ME	09 29	14		8			
		F	14 37						

(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	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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
86	May 4	e	18 14.3	4	-	½			
		e(S?)	16.4	8	1½	-			
		eL	18.4	18					
		MN_1	19 34	12	17				
		ME_1	22 28	13		9			
		MN_2	23 29	12	8				
		ME_2	26 03	10		4			
		F	19 35						
87	" 5	eL	0 59.0	19					
		MN	1 01 29	9	½				
		ME_1	03 07	12		3			
		ME_2	05 59	15		2			
		F	1 40						
88	" 5	e(L?)	4 07.8	16					
		MN	08 41	10	1				
		ME_1	10 05	12		1			
		ME_2	12 31	14		9			
		F	4 25						
89	" 5	e(P?)	17 13 45	4		½			
		e(S?)	19 20	8		½			
		eL	21.8	20					
		ME_1	23 15	14		9			
		MN	24 19	12	6				
		ME_2	29 58	12		7			
		F	18 10						
90	" 6	e	12 47.0	8	½				
		e(L?)	53.4	16					
		MN	54 52	10	½				
		ME	55 39	14		9			
		F	13 35						
91	" 6, 7)	eP	23 03 29	4	½	-		5480 (49.4°)	
		eS	10 38						
		eL	16.6	20					
		M_1	18.5	16	13	27			
		ME	21 46	14		33			
		MN_2	22 54	12	4				
		MN_3	28 04	14		14			
		ME_3	32 08	12		7			
		F	0 56						
93	" 7	e(L?)	8 21.9	20					
		MN	26 59	16	8				
		ME	27 25	13		9			
		F lost in N° 94							

(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	c : 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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
93	May 7	e	9 30.2	8		½			
		e	36.1	12		6			
		M	38.4	12	1	3			
		F	10 12						
94	" 8	e	8 36.2	8		2			
		e(L?)	40.3	16					
		ME	42 05	10		¼			
		MN	43 02	12	1				
		F	9 00						
95	" 9	eP	16 03 06	5	4	2	2	4860	
		PR_1	04 57	4	8	-	¾	(43.7°)	
		eS	09 41	8	17	5	-		
		PS	10 01	9	24	7	-		
		SR_2	13 23	14	90	44	16		
		eL	15.0	24					
		MN_1, ME_1	17.7	15	185	200			
		MZ_1	21 05	18			100		
		MN_2, ME_2	22.4	11	170	300			
		ME_3, MZ_2	25.1	10		85	39		
		MN_3	26 21	12	130				
		MN_4, MZ_3	27.1	12	150		65		
		ME_4	31 16	12		90			
		C_1	47.4	12	20	8			
		C_2	59.2	12	14	8			
		F last in N°96							
96	" 9	e	19 37 31	4					
		e(L?)	43.5	?					
		MN_1	47 53	12	20				
		ME_1, MZ_1	48 27	14		20	8		
		MN_2	50 51	12	21				
		MZ_2	51 52	12			2		
		ME_2	57 27	12		30			
		ME_3	20 05 10	12		30			
		F last in N°97							
97	" 9	eP	20 34 31	4				3430?	
		e(S?)	39 44	?					
		eL	41.9	20					
		ME_1	43 56	16		33			
		MN_1	44 16	14	26				
		ME_2, MZ_1	46.4	15		50	14		
		MN_2	48 21	12	30				
		ME_3, MZ_2	50.7	12		28	6		
		MN_3	54 27	12	17				
		ME_4	59 49	12		18			
		F	23 45						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

$\varphi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ 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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
98	May 10	e(P?)	7 29.4	4	½	½			
		e(S?)	34.5	8	-	½			
		eL	37.4	24					
		MN	40 21	?					
		ME	41 35	13		8			
		F	8 15						
99	" 10	eP	18 14 08	5	½	2		3290	
		eS	19 12	8	½	1		(29.6°	
		eL	21.2	18					
		ME_1	23 39	13		9			
		MN_1	23 51	12	7				
		MN_2	26 26	12	5				
		ME_2	26 43	12		7			
		F	19 35						
100	" 10	e	22 39.2	?					
		e	46.2	8	½	1½			
		e(L?)	49.2	16					
		ME	51 00	12		7			
		MN	52 17	12	5				
		F	23 15						
101	" 11	eL	1 29.0	14					
		MN	32 34	11	5				
		ME	34 12	12	-	7			
		F	2 25						
102	" 11	eL	5 01.8						
		MN	03 53						
		ME	04 01	8		½			
		F	5 20						
103	" 11	eL	13 09 38	16					
		ME	12 00	12		3			
		MN	12 34	10	1				
		F	13 40						
104	" 13	e	10 46.8	4	½				
		eL	53.5	14					
		ME	56 04	11		1			
		MN	56 12	11	½				
		F	11 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_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
105	May 14	e	0 29.3	6		½			
		e(L?	31.0	20					
		MN	33 23	14	10				
		ME	34 34	14		9			
		F	1 25						
106	" 14	eP	22 06 06	4	¼	¼	-	2700	Computed Azimuth:-
		iP	06 13	4	+6	+9	-1½	(24.3°	229° (N.49°E.)
		iPR_1	06 31	4	-6	-14			
		iS	10 27	8	+6	-15			
		SR_1	11 10	8	19	22			
		eL	13.0	18					ϕ, 17°S.
		ME_1, MZ_1	14.2	16	52		5		λ, 170°E.
		MN_1	14 50	14	65				
		MN_2, MZ_2	18.3	12	33		6		Computed time at origin :-
		ME_2	19 06	12		38			h m s
		ME_3	24 28	12		29			22 00 26
		MN_3	24 57	10	9				
		F	23 55						
107	" 15	e	1 27.4	12	1	-			A few long waves.
108	" 15	e	8 42.4	5					
		MN	47 13	14	9				
		ME	50 57	12		3			
		F	9 25						
109	" 17	e?	6 01.8	4		2½			
		e(L?	09.7	20					
		ME	11 15	16		9			
		MN	13 36	14	6				
		F	6 50						
110	" 18	eP	5 20 14	7	-	9		3050	
		PR_1	21 09	7	½	½		(27.4°	
		eS	25 01	8	1	2			
		eL	27.0	24					
		MN_1	30 31	15	23				
		ME_1	30 39	16		24			
		MN_2	33 14	14	12				
		ME_2	37 28	16		4			
		F	6 45						

(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.
	1917								
111	May 18	c	15 57.0	4		½	1½		
		ME	03 14	16			3		
		MN	04 20	12	5				
		F	16 40						
112	" 18	e	19 14.2	4	-	2			
		e(S?)	18 56	8	-	½			
		eL	21.6	24					
		MN_1	23 09	17	12				
		ME_1	23 31	16		12			
		MN_2	26 09	12	7				
		ME_2	27 07	14		9			
		F	20 20						
113	" 21	e	10 36.1	5					
		MN	42 19	12	1				
		ME	44 28	12		1½			
		F	11 00						
114	" 23	e	21 45 51	3	-	½			
		i	47 21	5	-	-5			
		e(L?)	54.4	24					
		i	56 08	4	-	+5			
		MN	55 59	16	10				
		ME	56 55	17		13			
		F	22 25						
115	" 24	e	18 21.3	4	-	½			
		e(L?)	29.8	16					
		MN	31 32	13	3				
		ME	32 01	12		1			
		F	19 06						
116	" 24	eP	19 25 19	4	-	2		3240	Felt at Rabaul (New
		iS	30 19	8	+10	+2		(29.1°)	Britain).
		eL	31.6	30					
		ME_1	32 48	20		62			
		MZ_1	33 01	20			18		
		MN_1	33 10	18	40				
		MN_2	35 24	16	26				
		ME_2, MZ_2	36.6	16		48	11		
		MN_3	39 45	16	13				
		ME_3	41 36	15		10			
		F	21 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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
117	May 26	eP	18 00 20	4	2	2	¼	2450	
		eS	04 21	8	½	½		(22.0°)	
		iS	04 28	8	+5	-5			
		eL	05.5	24					
		ME_1	07 22	10		14			
		MN_1	07 33	10	9				
		MN_2, ME_2, MZ	09.4	8	6	3	1		
		MN_3	11 56	8	4				
		ME_3	12 09	8		5			
		F	19 15						
118	" 29	eP	6 08 53	5	3	-		2840	
		eS	13 24	10	4	3		(25.5°)	NS & EW reductions from seismometer N°3
		eL	15.0	35					
		MN_1	17 09	13	13				
		ME_1	18 53	14		4			
		ME_2	22 08	11		4			
		MN_2	22 44	10	8				
		F	7 15						
119	" 31	eP?	9 01.7	?				8500?	
		eS	11.5	10	2	-			
		i	11 48	10	-15	-4½			
		i	12 48	10	-7	+32			
			19 36	14	6	13			
		eL	27.7	38					
		ME_1	33 43	28		112			
		MZ_1	35 34	24			27		
		MN_1	36 13	22	100				
		ME_2	39 36	20		53			
		MN_2	41 11	20	38				
		ME_3	41 30	20		62			
		C	53 32	16	8	18			
		F	12 45						

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	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	1	149	7.7	6.0	0.02
	3	118	9.8	4.2	0.02
A_E	1	150	7.0	3.1	0.02
	3	143	9.2	7.1	0.06
A_Z	2	77	4.5	3.4	0.07

No.	Date.	Phase	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
	1917		h. m. s.	s.	μ	μ	μ	km.	
120	June. 1	e (P?)	8 40.8	4	¼	1			
		e (S?)	46.5	7	½	1			
		eL	48.6	18					
		ME_1	51 18	14		3			
		ME_2	52 18	14		3			
		MN_2	52 36	14	2				
		F	9 20						
121	" 1.	e	1 48.5	8		¼			Felt at Ioma, New Guinea.
		e L?)	53.2	18					
		M	56.2	12	2	¾			
		F	2 30						
122	" 2	e P?)	3 27.0	6		¼			
		e S?)	31.6	8		½			
		eL	33.9	18					
		MN_1	35 49	12	4				
		ME_1	36 19	16		9			
		ME_2	39 41	14		9			
		MN_2	42 40	12	4				
		F	4 30						
123	" 2	eL	9 58.0	20					
		MN	58 52	10	5				
		ME	59 40	12		1			
		F	10 25						
124	" 3	e	14 49.7	4					
		e	52.9	12	¾	1			
		e (L?)	58.1	24					
		MN_1	59 40	20	4				
		ME_1	15 01 25	20		19			
		ME_2	03 52	13		7			
		MN_2	04 01	16	10				
		F	15 50						
125	" 4	e	1 54.6	6	-	2			
		e (L?)	2 15.6	22					
		MN_1	18 18	18	1				
		ME_1	22 53	16		3			
		MN_2	25 57	14	1				
		ME_2	29 53	16		1			
		F	3 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	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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
126	June. 6	eP	4 04 47	5	½	2		2340	
		eS	08 39	8	1	1		(21.0°)	
		eL	10.4	?					
		MN_1	12 22	16	8				
		ME_1	14 18	16		27			
		MN_2	14 51	12	14				
		MZ_1^2	15 46	12			3		
		ME_2, MN_3,	17.8	12	24	19			
		MZ_2^2	18 02	12			3		
		ME_3	20 00	13		11			
		ME_4	25 22	12		7			
		MN_4	26 22	12	7				
		F	7 20						
127	" 6	eL	5 40.5	18					
		MN_1	41 48	13	1½				
		ME_1	42 01	12		4			
		ME_2	44 04	12		3			
		MN_2	45 56	12	7				
		F	lost in N°126						
128	" 6	e(S?)	11 11.5	8	¼				
		eL	16.7	20					
		ME_1	19 30	14		6			
		MN_1	20 18	12	2				
		MN_2	24 30	16	1				
		ME_2	25 22	?					
		F	12 05						
129	" 6	eP	15 54 39	4	¼	½		3850	
		PR_1	55 48	4	¼	2		(34.5°)	
		eS	16 00 18	9	½	1			
		eL	02.5	20					
		M_1	04.0	14	10	11			
		MN_2	06 01	13	8				
		ME_2	07 59	14		11			
		F	18 00						
130	" 7	e	16 15.4						
		eL	20.7	17					
		M	24.3	14	8	5			
		F	17 06						
131	" 7	e?	19 32 27						Heavy microseisms
		e(S?)	36.8	8?					
		eL	39.8	22					
		MN	42 36	13	7				
		ME	44 06	?					
		F	20 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	$\frac{\Gamma}{T_o^2}$
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.
	1917								
132	June. 8	e(S?)	1 22.5	?					Heavy microseisms
		e(L?)	49.0	24?					
		ME_1	52 05	20		5			
		MN_1	54 56	16	2				
		ME_2	58 38	16		12			
		MN_2	2 03 14	12	¾				
		F	3 45						
133	" 8	e	17 21.7						
		eL	14.3	24					
		M_1	22.9	16	6	12			
		M_2	26.9	12	6	8			
		F	18 00						
134	" 9	eP	17 03 45	8	½	½		3030?	
		e(S?)	08 30	12	4	4			
		eL	10.1	?					
		MN_1	11 57	14	20				
		MZ_1	12 54	17			15		
		ME_1	13 17	16		45			
		MN_2	14 57	14	30				
		MZ_2	17 01	14			10		
		ME_2	17 22	14		33			
		MN_3	22 13	10	5				
		ME_3	23 44	12		7			
		F	18 25						
135	" 10	e	4 45.7	6		½			
		e(SR_1?)	5 06.5	12	¾	1			
		eL	21.8	32					
		ME_1	25 02	20		2			
		MN_1	26 49	16	3				
		ME_2	34 54	16		9			
		MN_2	35 21	12	1				
		ME_3	46 58	16		3			
		F	6 55						
136	" 11	e	16 26.1	4					
		e	29.4	6	-	3			
		e	30.4	4	3	-			
		ME	31 05	8		2			
		MN	31 44	8	½				
		F	16 55						
137	" 12	eP	5 28 49	4	-	¼		2740	
		eS	33 13	12	½	-		(24.5°	
		eL	35.8	?					
		MN_1	37 06	16	2				
		ME_1	37 57	16		3			
		MN_2	38 58	10	½				
		ME_2	41 06	14		2			
		F	6 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	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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
138	June 12	e?	14 43.8	4					
		eL	47.0	20					
		ME_1	49 05	16		3			
		MN_1	49 26	16	2				
		ME_2	53 37	15		5			
		MN_2	54 59	8	½				
		F	15 25						
139	" 13	iP	6 47 28	4	-	+9½	-7	2960	Az., 270°
		PR_1	48 55	5	4½	13		(26.6°)	
		iS	52 08	7	+12	10	4		φ, 27°S
		eL	54.0	26					λ, 167°W
		M_1	55 08	20	147	245			
		MN_2	56 33	14	232				
		ME_2, MZ_1	57 10	16		465	280		Computed time at origin :- h m s 6 41 33
		MN_3	58 33	12	147				
		ME_3	7 00 31	14		264			
		MZ_2	00 54	13			158		
		C_1	04 20	11	54	68	29		
		C_2	09 03	10	34	28			
		F	9 55						
140	" 13	eP	8 58 35	4	½	2½		2760	
		eS	9 03 00	9	½	1		(24.8°)	
		eL	05.3	20					
		MN_1	06 55	16	26				
		MZ_1	07 09	16			13		
		ME_1	07 34	16		45			
		MN_2	08 56	12	15				
		ME_2	10 51	14		22			
		MZ_2	11 03	16			13		
		F	last in N°139						
141	" 13	e	13 42.1	10					
		MN	47 00	16	2				
		ME	47 36	16		3			
		F	13 55						
142	" 13	eP	14 42 22	5	-	¼		2980?	
		e(S?)	47 04	8	½	-			
		eL	48.0	16					
		ME	48 54	12		2			
		MN	49 43	10	3				
		F	15 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*) h. m. s.	Per. s.	Amplitude A_N μ	Amplitude A_E μ	Amplitude A_z μ	Δ km.	Remarks.
	1917								
143	June 13	e	16 36 1	5	½	-			
		MN	39 43	12	3				
		ME	41 31	12		7			
		F	16 50						
144	" 13	eP	17 10 01	4	½	-		2740	
		eS	14 25	8	5	½		(24.6°)	
		eL	18.7	24					
		ME	20 22	13		12			
		MN	21 05	16	26				
		F	17 50						
145	" 17	eP	8 34 33	4	-	½		2900	
		eS	39 09	8	½	¾		(26.1°)	
		eL	40.3	20					
		MZ	42 31	16			1¼		
		ME_1	43 04	16		15			
		MN_1	43 21	16	13				
		ME_2	45 03	13		9			
		MN_2	49 30	13	7				
		F	9 35						
146	" 18	e	9 19.7	5	-	½			
		eL	22.2	18					
		MN	24 58	12	1				
		ME_1	25 36	12		1			
		ME_2	28 06	12		3			
		F	9 50						
147	" 18	e	14 37.5						
		e	40.9	4	-	2			
		ME	42 37	6		½			
		MN	45 42	8	½				
		F	14 45						
148	" 18	eP	22 15 51	4	1	-		2900	
		iPR_1	16 57	4	+8	2		(26.1°)	
		iS	20 25	5	6	-3			
		eL	21.7	20					
		ME_1	23 50	6		10			
		MZ_1	25 02	8			1¼		
		MN_1	25 18	6	8				
		ME_2	26 07	7		11			
		MN_2	28 38	8	7				
		ME_3	28 51	8		8			
		MZ_2	29 59	12			3		
		F	23 25						

(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:

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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	$\epsilon : 1$	$\frac{r}{T_o^2}$
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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
148a	June 24	e	2 12,5	5					
		ME	17 17	5		2			
		MN	21 15	?					
		F	2 40						
148b	" 24	iP	19 55 20	5	+3	+13	-3	4840	Computed Azimuth:-
			55 24	5	3	21	10	(43.5°)	257° (N.77°E)
		iPR_1	56 37	6	+8	+17	-3		
			56 49	6	9	50	8		
		iS	20 01 54	7	-12	-23	-		
		eL	02,6	15					φ, 16½°S.
		MN_1	03 13	14	80				λ, 164½°W.
		ME_1	03 45	8		11			
		MN_2	03 51	19	85				
		MN_3	04 37	19	22				
		MN_4	05 16	12	43				
		i	05 38	6	-9	+29			
		ME_2	05 59	9		14			
		MZ	06 12	9			4		
		ME_3	07 03	14		77			
		MN_5	08 12	11	7				
		ME_4	10 00	12		45			
		CE	17 16	11		25			
		CN	17 59	10	10				
		F	22 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	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.
	1917		h. m. s.	s.	μ	μ	μ	km.	
149	June 26	eP	5 56 42	5	-	1¾	-	4370	Severely felt,
		iP	56 46	5	-4½	-18	+6¾	(39.3°)	but without
			57 02	5	6	36	15		loss of life,
		iPR_1	58 15	6	-5¼	37	29		in Samoan is-
			58 23	6	23	84	53		lands.
			58 34	6	47	150	84		At Apia Ob-
		S	6 02 50	13	99	218	50		servatory, in-
		PS	03 13	15	184	946	153		tensity estim-
		SR_1	05 24	16	135	180	81		ated as VIII
		eL	05.8	30					Mercalli.
		MN_1	06 16	24	2160	740	790		
		MZ_1	08 17	24			2890		
		ME_1	08 28	20	820	2890			
		MN_2	11 34	13	690	560			
		ME_2	12 28	14	456	805	430		
		MN_3	14 21	15	175	950			
		MZ_2	14 32	15			472		
		MN_3	16 40	12	346	256			
		ME_4	17 21	14	360	535			Computed time
		MN_4	21 47	14	370	210			of shock,
		C_1	33 13	12	126	73			h m s
		C_2	40 20	12	62	121			5 49 02
		C_3	51 14	12	50	43			h
	W_2 waves	gW_2	8 33.8	25					
		ME_1	37 44	20		34			Well-marked W_2
		MN_1	42 00	20	25				series
		MN_2	48 10	20	42				(major arc)
		ME_2	48 38	20		59			
		MZ	49 01	20	21	93	32		
		F	11 05						
150	" 26	eP	14 08 11	4	-	¼		2500?	
		e(S?)	12 16	8	½	½			
		eL	15.1	22					
		MN_1	17 55	12	4				
		ME_1	19 33	13		1			
		MN_2	20 46	9	5				
		ME_2	22 30	11		3			
		F	15 02						
151	" 26	e	18 48.8	4	½				
		eL	52.7	20					
		MN_1	53 36	12	2				
		MN	56 26	10	3				
		ME^2	57 54	10		½			
		F	19 35						
152	" 27	eL	3 24.8	20					
		MN	28 33	12	9				
		F	3 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 sheet)		
A_E				
A_z				

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1917		h. m. s.	s.	μ	μ	μ	km.	
153	June 27	eL	5 32.8	20					
		MN	36 03	13	1				
		ME	37 58	12		1½			
		F	6 15						
154	" 27	e?	22 58.0	8					
		MN	23 03 24	13	7				
		ME	07 02	16		1½			
		F	23 30						
155	" 28	e(P?)	14 03.7	5	-	½			
		eL	10.7	18					
		MN_1	16 21	12	4				
		ME_1	19 38	12		3			
		MN_2	25 29	12	1				
		ME_2	26 59	14		5			
		F	15 30						
156	" 28	e	17 37.6	7					
		ME	41 54	11		¼			
		MN	42 06	12	¾				
		F	18 00						
157	" 25	eL	22 02.1	?					
		MN	04 59	13	1¾				
		ME	05 21	16		6			
		F	23 00						

E. F. Pigot S.J.

No. 7 July 1 to 31 1917 19

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:

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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)	145	7.7	4.9	0.02
	(3)	139	9.7	4.5	0.03
A_E	(1)	154	7.0	2.7	0.02
	(3)	136	9.5	8.0	0.06
A_Z	(2)	83	4.8	3.6	0.06

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
158	July 4	Iu	iP	0 48 59	8	-1½	-	-	6800	
			eS	57.3	7	1¼	1			
			PS	57 50	7	6	3			
			eL	1 08.4	22					
			MN	15 45	17	60				
			MZ	15 51	17			16		
			ME	16 55	17		43			
			F	2 30						
159	" 4	I	e	5 55.7	7	½	-			
			eL	09.7	24					
			MN	6 13 37	18	14				
			ME	14 55	16		9			
			F	6 35						
160	" 11	I_r	eP	22 50.1	5	-	¾			
				50 30	5	½	6			
			S?	54 42	8	½	½			
			eL	57.4	18					
			ME	23 01 29	15		7½			
			MN	02 04	13	3½				
	12		F	0 05						
161	" 12	I_r	eP	11 47.7	8	1¼	-		2850	
			S	52 14	11	2¼	-			
			PS	52 37	11	22	6			
			eL	55.0	18					
			ME	57 30	12		21			
			MZ	12 00 15	10			7½		
			MN	00 38	10	10				
			F	13 40						
162	" 13	I	e	16 30.8						
			eL	36.9	14					
			MN	40 43	10	5				
			ME	42 05	10		4½			
			F	17 15						
163	" 15	I_r	eP	10 48.5	5					
				48 33	5	-	1¼			
			e(S?)	53.7	?					
			eL	59.8	22					
			MN	11 08 16	16	5				
			ME	08 58	16		9			
			F	12 05						
164	" 17	I	e(P?)	3 16.9	5	-	½			
			e(S?)	18.7	7	½	-			
			eL	22.8	12					
			M	24.0	10	1	1½			
			F	3 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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
165	July 27	I_u	eP	1 22.8					11,000	Argentina.
			PR_1	25 47	7	½	2			
			eS	34.6	11	-	2¼			
				34 50	11	1	2			
			e(SR_2?)	42.7	14	2	-			
				43 42	14	2	6			
			eL	2 09.0	25					
			M_1	13.5	20	8	28			
			MZ	14 49	20			23		
			ME_2	19 21	15		10			
			MN_2	24 46	16	5				
			ME_3	25 49	18		12			
	(see Remarks)		e	3 36.1						
			MW_2	36 37	25	14	16			Probably W_2 (or Lrep.1) waves.
			F	(lost in 166)						
166	" 27	I	e(P?)	3 19.1						For W_3, see 166.
			e	24.8	?					
			eL	42.4	20					
			M_1	45.0	16	10	9			
			MN_2	49 31	14	8				
			ME_2)							
			MZ)	52 39	13		7	9		
			MN_3	52 56	13	5				
			MN_4	4 05 05	15	7				
			ME_3	05 50	15		7			
	(see Remarks)		eW_3	5 17.0	25	-	8			Probably W_3 (or Lrep.2) waves of No.165.
167	" 27	II_r	F	5 40						
			eP	23 42.4					3200	
			eS	47.3	7	1	½			
			eL	49.9	25					
			ME_1	55 07	12		32			
			MN_1	56 54	12	21				
			ME_2	57 21	12		35			
			MZ	58 49	12			8		
	28		MN_2	0 00 04	10	14				
			F	1 35						

(Continued on next sheet)

Riverview College Observatory,

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Seismological Bulletin.

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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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
168	July 29	III$_T$	eP	21 58 47	4				3390	Computed azimuth: 166° (N.14°W.)
			iP	58 51	4	+15	-4	-7		
			iPR$_1$	22 00 01	6	+18	-5	-4		
				00 51	6	27	5	3		
			iS	03 57	8	-20	-10	3		ϕ, 4°S.
				04 04	8	54	29			λ, 144½E.
			eL	05.9	18					
			M$_1$	07 47	10	90	155			
			M$_2$	10 13	16	690+	1260+			
			MZ$_1$	11 19	14			980		Computed time at origin :- h m s 21 52 17
			M$_3$	13 15	17	470	1460+			
			MZ$_2$	14 57	10			650		
			M$_4$	15 07	10	205	480+			
			M$_5$	18 53	10	165	410			
			M$_6$	20 19	10	270	420			h m From 22 6 ,NS & EW data from
			M$_7$	21 28	10	145	380			
			C$_1$	26 14	10	103	166			
			C$_2$	28 33	9	116	122			Seismometer No. 3, as No.1 be-
			C$_3$	37 43	10	30	87			came deranged.
	" 30		F	2 45						
169	" 30	I	e	0 46.0	3	¾	½			
			ME	47 33	10		8			
			MN	48 01	10	5½				F lost in 168.
			MZ	49 06	10			5		
170	" 30	I	e	2 10.2	5					
			ME	15 51	11		2¼			
			MN	16 32	11	1				
			F	2 25						
171	" 30	I	e	4 28.2						
			eL	34.3	14					
			MN	37 28	10	2				
			ME	38 14	10		2			
			F	5 10						
172	" 30	I	eP	8 59.3	4	-	½		2000?	
			e(S?)	9 02.8	8	-	1			
			eL	04.7	16					
			LE	06 07	11		12			
			LZ	09 54	8			3		
			LN	10 02	8	8				
			F	9 50						
173	" 30	I	eP	10 35.2						
			eL	41.2	17					
			ME	41 55	14		8			
			MN	46 15	10	3				
174	" 30	I	eP	10 54.2	3	½	1			F lost in 174.
			ME	55 53	10		5			
			MN	57 35	9	3				h m F 11 30

(Continued on next sheet)

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Seismological Bulletin.

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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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
175	July 30	I	e	13 40.3	4	-	½			
			ME	41 51	10		1½			
			MN	44 11	8	1				F lost in 176.
176	" 30	II$_r$	eP	13 56.6	4	½	-		3000	
			eS	14 01.3	8	-	1			
			eL	05.8	14?					
			ME	11 17	10		34			
			MN	11 53	10	53				
			MZ	12 08	10			15		F lost in 177.
177	" 30	II	eP	16 29.1						
			e?	34.3	6	-	½			
			eL	38.4	20					
			M$_1$	40.6	12	30	59			
			MN$_2$	41 30	12	32				
			ME$_2$	42 15	12		70			
			MZ	45 35	12			8		
			F	18 15						
178	" 30	I	e?	18 33.4	?					
			MN	35 49	10	1				
			ME	37 55	10		1			
			F	18 45						
179	" 30	I	eP	23 02.0						
			eL	06.9	18					
			M	09 52	12	7	3			
	31		F	0 05						
180	" 31	I	eP?	0 16.0	6	-	½			
			e(S?)	23.1	9	-	1			
			eL	32.4	22					
			ME$_1$	37 17	18		11			
			MN	41 06	18	10				
			ME$_2$	49 51	16		8			
			F	1 45						
181	" 31	II	e(P?)	3 20.0	5	½	-		3300?	
			eS	25.1	7	-	1½			
			eL	27.0	18					
			M$_1$	32.4	11	44	101			
			ME$_2$	33 33	11		88			
			ME$_3$	34 08	11		95			
			MN$_2$	35 17	8	43				
			MZ	36 45	8			15		
			MN$_3$	37 37	8	48				
			C	39 45	8	16	11			
			F	5 50						
182	" 31	I	eP	8 59.1	5	-	¼			
			e(S?)	9 02.4	7	½	¼			
			eL	04.2	16					
			ME	05.6	12	10	13			
			F	9 50						

E.F.Pigot S.J.

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.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	144	7.7	4.9	0.02
A_N (3)	136	9.7	4.9	0.02
A_E (1)	152	7.0	2.9	0.02
A_E (3)	136	9.5	8.0	0.05
A_Z (2)	86	4.2	3.3	0.07

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
183	Aug. 1	I	e	1 12.6	5					
			eL	20.0	12					
			M	22.9	9	2½	2			
			F	1 45						
184	" 1	I	e	5 02.6	?					
			MN	07 25	9	1½				
			ME	08 19	9		1½			
			F	5 30						
185	" 5	III_r	eP	15 55 11	(2/4)				2440	Az. (computed), 296° (S.64°E.)
			iP	55 15	4	-3½	+7¼	-2½		
			i	55 20	4	+11	-21	+8		
			PR_1	55 54	4	17	38	8		φ, 40.9 S. λ, 177.1 E.
			iS	59 11	6	-27	-33	-		
			PS	59 37	7	43	27	6½		
			eL	16 00 45	18					See Special Bulletin, 9/8/17
			M_1	01 35	13	162	144			
			MZ	03 02	15			50		
			M_2	04 54	12	168	126			Computed time at origin :- 15h 50m 0ls
			ME_3	08 23	12		112			
			MN_3	10 29	11	95				
			CE_1	16 07	10		62			
			CN_1	16 49	9	35				Strongly felt in SE part of N. Island, N.Z. (VII-VIII F.M)
			CE_2	20 23	10		48			
			CN_2	23 02	11	50				
			F	19 25						
186	" 6	I_r	iP	16 13 08	4	-½	+5	-	2450	
			i	13 30	5	-	-4½			Felt at Napier, Masterton, &c., (N.Z.)
			S	17 09	7	½	½			
				17 57	10	5	4			
			eL	19.2	16					
			M	23.8	12	3	2			
			F	16 35						
187	" 7	I_r	e?	0 04.9						Slightly felt in North Island (N.Z.)
			eL	09.7	20					
			MN	11 35	12	3				
			ME	11 41	10		5			
			F	0 45						
188	" 7		e	7 53.6						
			eL	58.3	14					
			ME	58 59	10		1			
			MN	8 00 45	12	1½				
			F	8 20						

(Continued on next sheet.)

Riverview College Observatory,

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Seismological Bulletin.

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2. Wiechert Vertical Seismometer (80 kilo).
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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	(See last sheet)			
A_E				
A_Z				

No.	Date. 1917	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
189	Aug. 7	I	e	15 07.5						
			e	11.1	8	~~6~~	½			
			e	14.6	8	-	1			
				14 52	8	2	1			
			eL	21.2	18					
			MN	26 18	14	4				
			ME	27 55	12		3			
			F	16 50						
190	" 8	Ir	eP	18 05.2	3	-	½		2400	
				05 24	6	-	1			
			eS	09.2	7					
			iS	09 16	7	-	+6			
				09 24	7	2	7			
			eL	10.8	20					
			MN	11 28	15	4½				
			ME	12 28	15		8			
			F	19 10						
191	" 8	I	e	21 03.8	6	-	1			
			ME	06 45	12		1½			
			MN	07 15	12	1½				
			F	21 15						
192	" 9	I	e	23 16.3	5					
			eL	22.3	14					
			MN	24 35	10	2				
			ME	24 49	10		3			
	10		F	0 25						
193	" 10	I	e	0 56.6						
			eL	1 05.8	16					
			MN	05 57	12	4				
			ME	06 47	12		13			
			F	1 30						
194	" 10	I	e	17 37.2	3					
			e	40.6	5	3	1½			
			eL	42.2	16					
			MN	43 42	12	7				
			ME	44 00	12		13			
			MZ	44 36	12			9		
			F	18 10						
195	" 10	I	eP	22 20.1						
			eL	32.9	18					
			MN	35 10	14	2				
			ME	37 48	12		1½			
			F	22 45						
196	" 14	I	e	8 20.8						
			eL	25.4	16					
			ME	25 55	12		8			
			MN	27 40	12	4				
			F	8 50						

(Continued on next sheet)

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2. Wiechert Vertical Seismometer (80 kilo).
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	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)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
197	Aug. 14	1	eP	17 13.1	5	-	½			
			eL	19.6	24					
			M	21.2	18	3	6			
			F	17 40						
198	" 16	1_r	iP	23 02 48	3	+5	+5	1	2760	
			iS	07 13	7	+1	-½			
		i	(PS?)	08 00	7	-3	+17			
				08 20	7	9	7			
			eL	08.9	24					
			M	10.2	20	50	30			
			MZ	10 53	20			25		
	17		F	0 10						
199	" 17	1	e	5 36.2						
			eL	42.3	18					
			ME	43 40	8		1			
			MN	46 24	11	2				
			F	6 10						
200	" 21	1_r	eP	15 29.3	2				3300	Short wave lengths.
			S	34 24	5	¾				
			eL	39.2	10					
			MN	41 11	8	10				
			ME							
			MZ	41.5	7		5	4		
			F	16 25						
201	" 22	1	e	15 05.6	?					
			ME	08 42	12		1½			
			MN	09 32	14	2				
			F	15 20						
802	" 26	1	e	4 02.4						
			e	06.2	5					
			ME	10 09	13		2			
			MN	12 26	10	1				
			F	4 25						
203	" 26	1	e(P?)	22 35.4	5	-	½			
			e(S?)	39.9	8		1			
			eL	42.4	20					
			M_1	45 01	14	4	6½			
			ME_2	47 45	14		9			
			F	23 15						
204	" 27	1	(e?)	3 40.0	5					
			ME	52 34	14		3½			
			MN	53 04	14	2				
			F	4 00						
205	" 28	1	e	4 30						A few long waves.

(Continued on next sheet

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. $h = 41{\cdot}9$ 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		(See last sheet)		
A_E				
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.
	1917									
206	Aug. 30	111_r	eP	4 13 53	2	$1\frac{1}{4}$	$\frac{1}{2}$	1	3500	Az. (computed) 147° (N. 33° W.)
			iP	14 04	(2 4	+15	-15	-15		
			i	14 34	(2 5	-22	+14	+21		
			PR_1	15 25	6	22	21	51		φ, 70° S. λ, 135 E.
			iS	19 11	8	-87	+106	63		
				20 25	8	100	110	52		Computed time at origin :- h m s. 4 07 13
			eL	20.6	18					
			M_1	21 48	8	220	114			
			MZ_1	23 06	(4 8			110		
			ME_2	24 23	7		315			
			MN_2	24 39	(2 8	450				
			MN_3	25 19	(4 8	550				
			MZ_2	25 29	(4 8			220		
			ME_3	25 51	(2 8		520			
			MZ_3	27 08	7 14			460		
			MN_4	27 26	7 14	360				
			MN_5	28 35	10	460				
			ME_4	29 03	8		340			
			ME_5	31 54	7		210			
			C_1	37 14	8	135	80	56		
			C_2	41 37	8	36	90	35		
			C_3	45 46	8	55	48	7		
			eW_2	6 41.0	40	18				W_2 waves (L rep.1)
			F	8 05						
207	" 31	1	e	4 12.0	12	3	3			
			eL	20.3	25					
			MN	21 58	14	4				
			ME	22 24	12		3			
			F	8 05						
208	" 31	1	e (PR_1?)	11 57.6	?					
			i (PR_2?)	58 52	7	2	-9			
			eS	12 07.7	8	$1\frac{1}{2}$	2			
			iS	07 50	8	-	+8			
			eL	37.3	28					
			ME_1	43 59	16		14			
			MN_1	44 38	16	5				
			MN_2	49 31	15	6				
			ME_2	52 31	14		9			
			MN_3	13 25 12	15	6				
			F	14 15						

E.F.Pigot S.J.

Riverview College Observatory,

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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)	144	7.9	5.8	0.02
A_N (3)	137	9.9	5.8	0.02
A_E (1)	154	7.0	3.0	0.02
A_E (3)	137	9.5	8.0	0.04
A_Z (2)	76	4.7	3.6	0.07

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
209	Sept. 5	I	e	16 29.7						
			e	30.8	7	-	1			
			eL	37.4	20					
			MN	38 33	12	7				
			ME	39 15	16		13			
			F	17 30						
210	" 9	I	e	2 25.1						
			e	29.7	10	-	1			
			eL	35.8	18					
			MN_1	37 33	13	3				
			ME_1	38 23	15		5			
			M_2	45.4	11	2½	2			
			F	3 30						
211	" 15	I	e	10 14.6	40					A few long waves.
212	" 20	II_r	iP	2 55 00	6	-6	-4	1½	2350	
			PR_1	55 45	6	12	10			
			iS	58 53	7	+11	-16	+2½		Heavy microseisms present
			eL	3 00.9	18					
			MZ_1	03 07	14			22		
			ME_1	03 24	14		61			
			MN_1	04 04	12	65				
			MN_2	09 35	11	21				
			ME_2	12 52	10		22			
			MZ_2	15 30	10			10		
			MN_3	15 49	10	20				
			ME_3	17 17	10		27			
			F	4 30						

(Continued on next sheet).

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
213	Sept. 21	I_r	eP	10 53.6	4				1500	Short wave lengths.
			eS	56.3	5	½	2			
			(SR_1?)	57 17	5	4	2			
			MN	59 12	6	2½				
			ME	59 26	6		3			
			MZ	59 48	5			½		
			F	11 10						
214	" 24	I	eP	20 13 32	5	1	½		2900	
				13 37	5	2½	1	1½		
			PR_1	14 35	5	8	1			
			iS	18 08	7	+13	+5			
			SR_1	19 44	8	17	12			
			eL	21.7	20					
			M	24 15	12	33	53			
			MZ	24 26	12			11		
			F	21 55						
215	" 25	I	e	1 22.2						
			e	25.1						
			eL	32.5	20					
			ME	34 56	15		2½			
			MN	39 28	11	1				
			F	1 50						
216	" 25	I	e	3 49.1						
			e	52.4						
			ME	56 29	10		1			
			MN	57 25	10	1				
			F	4 05						

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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)	147	7.8	6.0	0.02
(3)	126	9.8	5.5	0.02
A_E (1)	150	7.1	2.9	0.02
(3)	140	9.4	8.0	0.04
A_Z (2)	90	5.0	3.7	0.07

N.B. NS & EW data always from No.1 unless No.3 specified.

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
217	Oct. 2	I	e	10 05.8	16	2	3			A few long waves.
218	" 5	I	e	20 10.7						
			eL	12.5	20					
			ME	13 29	15		12			Strong micro-seismic move-ment.
			MN	14 46	12	4				
			F	20 35						
219	" 6	I	e	12 54.8	6	-	½			
			eL	13 03.4	16					
			MN	09 26	12	3				
			ME	10 55	12		3			
			F	13 45						
220	" 7	I	e	15 53.1						
			e(L?)	16 07.9	20					
			ME	10 17	15		2			
			MN	11 51	16	3				
			F	16 20						
221	" 11	I	e	10 16.2						A few long waves.
222	" 16	I	e?	21 42.4						
			eL	54.4	20					
			ME	55 32	15		3			
			MN	57 54	12	1½				
			F	22 10						
223	" 17	I	e	7 33.2						
			M	44.0	10	2	1			
			F	7 50						
224	" 17	I	e	14 51.5						
			eL	59.5	20					
			ME	15 02 41	15		3			
			MN	04 43	15	2				
			F	15 20						
225	" 18	I	e	11 35.0						
			e(L?)	40.1	?					
			MN	45 09	10	1				
			ME	45 55	12		1½			
			F	11 55						
6	" 19	I	e	5 14.4						
			eL	30.4	?					
			ME	32 25	12		1			
			MN	35 35	12	1½				
			F	5 50						

(Continued on next sheet)

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INSTRUMENTS:

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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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
227	Oct. 19	I	eP	17 33.6	3	½	-			
			eL	40.6	?					
			ME	41 35	15		1			
			MN	43 50	12	1				
			F	18 05						
228	" 20	I_r	eP	17 38.9	2	½	-		2500	Short wave-lengths in earlier phases.
			eS	43.1	8	1	-			
			i	45 01	8	½	+5			
			eL	47.1	20					
			ME	49 00	14		4			
			MN	49 14	15	7				
229	" 21	I_r	eP	6 59.6	2 4	1	-		2500	
			eS	7 03.8	8	-	3			
			PS	04 04	8	5	2½			
			eL	04.9	22					
			MN_1	05 48	18	16				
			ME_1	06 39	13		18			
			M_2	07.5	10	11	14			
			MZ	09 33	9			1½		
			M_3	10 18	9	12	11			
			F	8 40						
30	" 23	I_r	eP	1 13.8	4	-	2		2700	
			eS	18.1	7	½	½			
			PS	18.85	7	½	1			
			eL	21.4	18					
			ME_1	23 13	16		9			
			MN	24 45	11	6				
			ME_2	26 29	15		8			
			F	2 20						
1	" 23	I	e?	15 44.7						
			e	47.4						
			e	49.2	8	-	½			
			eL	53.4	16					
			ME	54 31	12		4			
			MN	55 27	14	4				
			F	15 40						

(Continued on next sheet)

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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				

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1917									
232	Oct. 25	I_r	iP	15 16 46	4	½	½	½	2350	Short wave-lengths.
			iS	20 40	6	+5	+2			
			eL	22.3	12					
			ME	22 57	8		1			
			MN	24 54	10	1				
			F	15 45						
233	" 25	I	e	20 12.4						A few long waves.
234	" 27	Ie	e?	6 28.1						
			e	36.5	5	½	½			
			eL	39.4	16					
			MN	40 46	14	4				
			ME	40 54	14		6			
			F	7 25						
235	" 29	II_r	iP	20 42 06	2	2	-		2900	
				42 20	5	3½	1			
			eS	46.7	6	3	2			
			iPS	47 11	8	+15	+12			
				49 11	7	7	16			
			eL	50.3	20					
			M_1	52.6	16	84	155	17		
			MN_2	54 08	14	70				
			MZ_2	54 28			30			
			F	22 45						
236	" 31	I_r	iP	2 16 50	4	+2	+ 2		2700	
			iS	21 12	7	-2	-1½			
				22 26	7	-	1½			
			eL	23.9	18					
			ME	25 27	14		4			
			MN	25 42	12	3				
			F	3 10						

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	146	7.7	5.7	0.02
A_N (3)	133	9.9	4.8	0.02
A_E (1)	152	7.0	3.1	0.02
A_E (3)	140	9.5	8.0	0.04
A_Z (2)	93	5.0	3.9	0.07

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
237	Nov. 2	I	eL	5 57.7	15					
			MN	59 33	11	2½				
			ME	6 00 25	11		1			
			F	6 10						
238	" 2	I_r	eP	19 05.4	4	-	½		3500?	
			S?	10 42	7	-	½			
			eL	14.3	16					
			ME	18 39	14		7			
			MN	19 40	14	4				
			F	19 45						
239	" 4	I_r	eP	12 22.2					2600?	
				22 37	8	2	2			
			S?	26 23	7	½	1			
			eL	53.7	26					
			MN	39 32	20	25				
			ME	39 41	20		19			
			F	14 25						
240	" 8	I	eP	18 30.1	5	½	½			
				31 52	6	1	½			
			ME	34 53	15		3			
			MN	35 42	12	1½				
			F	18 45						
241	" 9	I	e	13 07.3						
			MN	10 48	12	1½				
			ME	11 19	12		3			
			F	13 20						
242	" 13	I	e	20 16.5	5	½	½			
			eL	25.7	16					
			ME	27 13	14		2			
			MN	27 32	14	4				
			F	20 40						
243	" 14	I	e	5 23.1						
			eL	34.1	15					
			MN	37.00	14	2				
			ME	39 04	12		1½			
			F	5 55						
244	" 14	I	e?	9 46.8						
			MN	10 09 07	16	3				
			ME	11 16	14		2			
			F	10 35						
245	" 14	I	e?	10 50.4						
			MN	11 05 14	18	3				
			ME	05 30	20		5			
			F	11 30						

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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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
246	Nov. 15	I	e	3 54.2						A few long waves.
247	" 15	I	e(P?)	17 10.1	5	½	-			
			e(S?)	14.5	8	1	3			
			eL	19.6	?					
			ME	21 37	16		·9			
			MN	22 43	15	7				
			F	19 00						
248	" 16	III$_r$	iP	3 25 12	(2 4)	-	-14	+7	2850	Az. 269° (N.89°E.)
			i	25 38	3	+2	+60	-29		
			iPR$_1$	26 12	4	+6	+24	-8		
				26 17	4	6	43	5½		φ, 29° S.
			S	29 44	7	9	13	-		λ, 178° W.
			PS	30 12	8	17	52	11		
			SR$_1$	31 18	10	83	22			
			eL	32.1	24					
			SR$_2$	32 12	(12 24)	77	90			
			MN$_1$	33 08	17	360				
			MZ$_1$	34 25	17			590		
			ME$_1$	34 47	17		755			
			MN$_2$	36 38	12	235				
			ME$_2$	38 44	14		555			
			MZ$_2$	38 56	14			342		
			MN$_3$	40 02	12	130				
			ME$_3$	45 54	12		195			
			C1	54.2	12	72	53			
			CE$_2$ CZ	59.9	12		68	33		
			CN$_2$	4 03 12	11	37				
			F	7 30						
249	" 16	I$_r$	eP	22 25.4	5	½	½		4800	
			S	31.9	10	6	2			
			PS	32 42	12	6	3			
			iSR$_1$	35 16	10	+10	+11			
				37 28	10	9	17			
			eL	42.6	22					
			M$_1$	46.1	20	17	29	-		
			MZ	46 45	18			9		
			M$_2$	50.4	13	5	5			
			F	23 25						
250	" 17	I	e(S?)	2 29.4						
			eL	35.8	16					
			MN	39 22	12	3				
			ME	40 53	14		2			
			F	3 00						

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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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
251	Nov. 17	I	e(S?)	8 17.0						
			eL	24.4	15					
			MN	27 44	12	3				
			ME	30 40	12		4			
			F	9 15						
252	" 17	I	eL	10 25.7	12					
			MN	27 30	10	1				
			ME	32 40	10		1			
			F	10 35						
253	" 18	IIu	eP	3 06.7	(2/4)	1	-		5600	Az. 147° (N.33°W.) φ, ~~9° S.~~ 11° N. λ, 126° E.
			iP	06 53	4	-5	+3	+4		
			PR_1	08 45	5	2	2			
			iS	13 58	7	-16	-			
			i	14 04	7	+44	+6			
			SR_1	16 38	8	9	6			
			SR_2	18 16	9	20	20			
			eL	18.7	18					Later phases not measurable on No.2, (friction)
			MN_1	24 01	15	25				
			ME_1	24 08	15		43			
			MN_2	26 45	16	65				
			ME_2	26 58	16		50			
			MN_3	30 19	14	28				
			ME_3	32 36	14		33			
			F	4 55						
254	" 18	I	eL	5 59.7	20					
			MN	6 02 19	15	3½				
			ME	02 23	15		2½			
			F	6 10						
255	" 18	I	eP	19 56.5						
			i	57 09	4	2	-4			
				57 55	10	1	3			
			M	20 00.1	12	6	4½			
			F	20 10						
256	" 20	I	e	15 49.6						
			eL	16 01.3	16					
			MN	02 05	12	1				
			ME	03 22	14		2			
			F	16 20						
257	" 21	I	e(S?)	00 12.9	8	1½	½			
			eL	16.7	13					
			ME	20 43	9		½			
			MN	21 19	9	1				
			F	00 40						

(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				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s_2	μ	μ	μ	km.	
258	Nov. 22	I_r	iP	6 19 52	4	-2	-1		2450	
				19 58	4	1	2½			
			iS	23 53	7	-3	+9			
				24 02	7	9	9			
			eL	26.7	16					
			MN_1	30 06	12	4				
			ME_1	30 31	12		4½			
			MN_2	36 17	12	3				
			ME_2	39 23	12		3			
			F	7 30						
259	" 23	I	e	11 11.1						A few long waves.
260	" 23	I	e	19 44.6	4	½	-			
			eL	54.6	18					
			ME	56 34	13		2			
			MN	57 02	13	2				
			F	20 10						
261	" 24	Iu	iP	11 19 20	4	-2½	-	-	5000	
			PR_1	21 30	5	3	½			
			eS	26 01	10	2	1			
			SR_2	30 04	12	3	3			
			eL	33.6	28					
			MN	35 58	20	17				
			ME, MZ)	37.7	15		15	4½		
			F	12 40						
262	" 25	Iu	eP	1 01.7	4					
			eL	07.7	18					
			N_1	08.4	14	4	13			
			ME_2	10 47	10		16			
			MN_2	11 48	10	12				
			MZ	12 16	10			4		
			ME_3	13 09	9		11			
			F	2 35						
263	" 26	I	e	2 57.9	20					A few long waves
264	" 26	I	eL	5 34.9	22					
			[illegible]	42 58	17		1½			
			MN	43 10	17	1½				
			F	5 55						
265	" 27	I_r	eP	00 02.0	4	½	1		2700	
			S	06 20	7	1	1			
			PS	06 44	7	3	2			
			eL	08.1	19					
			MN	08 57	16	14				
			ME	10 07	15		12			
			F	1 05						

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
266	Nov. 27	I	e	12 58.8	16					A few long waves
267	" 28	I	e	14 32.8	?					
			e	37.7	18	3½	-			
				38 14	18	7	4			
			eL	42.2	20					
			ME	43 31	16		6			
			MN	43 59	16	8				
			F	15 05						
268	" 29	I_r	eP	22 18.5	3	½	-		2700	
				18 33	3	1	½			
			eS	22.9	(4 8	2	-			
			PS	23 10	(4 8	7	3			
			eL	26.0	16					
			MN	28 56	14	4				
			ME	29 48	11		3½			
			F	23 15						
269	" 29	I	eP	23 49.9						
				50 13	5	-	1½			
			eL	56.2	18					
			M	57.8	18	10	8			
	" 30		F	0 35						
270	" 30	I_r	eP	17 09.0	3	1½	½	1	2800	
			eS	13.5	8	2	-	-		
			PS	13 49	8	20	8	2		
			eL	16.4	19					
			ME	19 28	10		11			
			MN	20 39	13	17				
			MZ	21 07	10			2		
			F	19 10						

N.B. NS & EW data always from No. 1, unless No. 3 specified.

E. F. Pigot S.J.

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	151	7.7	6.0	0.02
A_E (3)	136	10.0	4.0	0.02
(1)	150	7.1	3.1	0.02
A_Z (3)	132	9.7	8.0	0.04
(2)	92	5.0	4.5	0.05

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
	1917									
271	Dec. 1	I	eP	4 07.3	4					
			ME	11 29	11		2½			
			MN	12 22	9	1				
			F	4 20						
272	" 2	I	(e)	4 54.8						
			eL	5 01.8	18					
			MN	03 12	1½					
			ME	06 32	12		1½			
			F	5 20						
273	" 3	I	eL	4 45.3	20					
			ME	47 55	12		3			
			MN	50 13	1½	1½				
			F	5 20						
274	" 3	I	e	7 43.9						
			e	46.9						
			eL	51.7	?					
			ME	54 45	12		1½			
			MN	55 00	12	1½				
			F	8 05						
275	" 6	I	eP	7 12.5	2					
			ME	17 44	8		½			
			MN	19 42	11	1				
			F	7 35						
276	" 9	I_r	eP	2 35.1	4	-	1		3100?	Perhaps double
			e(PR_1?)	36.5	5					
				36 37	5	-	3			
			S?	39 55						
			eL	42.4	?					
			ME	43 48	9		1½			
			MN	44 53	11	2½				
			i	45 21	6	-	-5			
				46 56	7	-	1			
			F	3 20						
277	" 9	I	iP	15 57 19	4	+3	+5	-2½		
			e	01.6	9		½			
				02 40	8		1			
				02 51	8	1½				
			F	16 35						
278	" 11	I	(e)	13 09.8						
			e(S?)	14.2						
			eL	18.5	22					
			MN	20 26	16	2½				
			ME	24 22	12		1½			
			F	13 50						

(Continued on next sheet)

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
279	Dec. 15	I_r	eP	15 41.0	2				3700?	
			e(S?)	46.5						
			eL	48.3	21					
			ME	50 12	16		6			
			MN	50 28	15	2				
			F	16 25						
280	" 20	I_r	eP	1 57.6	3	-	½		3400	
			eS	2 02.8	9	-	1			
			eL	05.0	25					
			MN_1	07 44	15	9				
			MZ / ME_1	08.0	16		40	11		
			MN_2	12 07	13	5				
			ME_2	14 58	12		15			
			F	3 50						
281	" 21	I_u	eP	18 19.1	8	½	½		6400	
			i	20 16	8	-1½	+6			
			eS	27.1	10	-	2			
			eL	41.9	26					
			MN_1	48 41	18	10				
			MZ	49 08	18			7		
			ME_1	50 08	18		7½			
			MN_2	51 32	18	6½				
			ME_2	54 09	18		11			
			F	20 00						
282	" 21	I	eL	20 05.3	19					
			MZ	10 02	20			8½		
			MN	10 48	18	3½				
			ME	14 49	16		3			
			F	20 45						

(Continued on next sheet)

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1917			h. m. s.	s.	μ	μ	μ	km.	
283	Dec.28	I_u	eP	21 39.1	7	½	½		6400	
				40 21	7	½	1			
			eS	47.1	9	-	1½			
			eL	22 01.8	20					
			MN	08 39	18	6½				
			ME	10 23	17		7			
			F	23 55						
284	" 29	I_u	eP	23 07.7					12500	Guatemala
			e	10.5						
			eS	20.4	14	-	8			
			PS	21 36	14	2	10			
			SR_2	26 48	20	12	14			
				27 30	20	4	42			
			eL	39.6	34					
			M_1	45.3	26	14	34			
			ME_2	48 35	20		24			
			MZ_1	49 08	18			10		
			MN_2	50 13	16	5				
			MN_3	54 13	15	9				
			MZ_2	55 51	15			4½		
			ME_3	56 13	15		12			
	" 30		ME_4	00 02 14	15		15			
			C	10.6	15	4½	7			
			F	3 40						
285	" 30	I	e?	4 52.1						
			e	59.1						
			e	5 09.0	14?					
			M	16 38	?					
			F	5 40						
286	" 30	I	eL	6 22.3	20					A few long waves
287	" 30	I	eL	8 15.6	?					" " "
288	" 30	I	eL	8 50.3	?					" " "
289	" 30	I	eL	9 36.3	?					" " "

Erratum. In last month's Bulletin, please correct clerical error in No.253 (Nov.18) for ϕ, 9°S., read ϕ, 11°N.

E.F.Pigot S.J.