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)	147	8.0	8.5	0.01
	(3)	132	10.1	5.4	0.02
A_E	(1)	153	6.4	4.6	0.01
	(3)	128	9.8	3.8	0.03
A_Z	(2)	86	5.0	3.0	0.06

Nr.1 1915

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.	
1	Jan. 3	I	e	0 05.1	6					
			eL	9.4	25					
			ME	10 08	14		19			
			MN	12 12	12	12				
			F	1 05						
2	" 4	I	e	0 06.1						
			e	13.1	6	$1\frac{1}{4}$	-			
			M	18 30	10	3	-			
			F	0 50						
3	" 5	II_r	iP	14 38 20	5	-23	-17		2500	Azimuth computed from iP N.37° E., which gives for Ep.; Lat. 15° S. Long. 165° E.
				38 24	5	31	24			
			PR_1	39 50	5	46	31			
			iS	42 25	8	-57	-29			
				43 54	10	131	140			
			eL	44.9	22					
			MN_1	45 54	14	89				
			ME_1				189			
			ME_2	50 36	12		112			
			MN_2	51 49	12	49				
			ME_3	54 28	9		47			
			C	15 01 31	9	13	14			
			F	16 50						
4	" 5) 6	II_u	iP	23 37 08	5	-7	$+2\frac{1}{2}$		6900	
			i	37 48	5	-11	+5			
			iS	45 32	8	-10	+29			
				45 37	8	15	48			
				46.7	9	35	20			
			eL	51.9	20					
			MN_1	52 55	10	26				
			MN_2	57 48	15	35				
			ME	59 14	14		43			
			F	1 45						
5	" 7	I	e(L?)	14 13.5	15					
			MN	19 02	8	$1\frac{1}{2}$				
			ME	20 13	8		$2\frac{1}{2}$			
			F	14 30						

(Continued on next sheet)

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		(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.
				h. m. s.	s.	μ	μ	μ	km.	
6	Jan. 7	I	e(L?)	18 49.3	18					
			ME	49 53	10		2½			
			MN	53 08	10	3				
			F	19 05						
7	" 10) 11	I	e(S?)	23 30.4	5					
			eL	36.9	22					
			MN	38 44	15	22				
			ME	42 36	15		25			
			F	0 30						
8	" 12	I	e	7 41.7	6					
			MN	44 49	15	4½				
			ME	47.0	14		5			
			F	7 55						
9	" 13	I_u	eP	7 12.3	7	-	1¼		16,500	Destructive earthquake in Central Italy.
			e(S?)	26.7	?					
			eL	8 01.6	45					
			MN_1	11 53	33	11				
			ME_1	12 25	28		12			
			ME_2	19 55	24		9			
			MN_2	24 27	23	11				
			ME_3	28 11	19		11			
			MN_3	29 37	18	6				
			F	10 05						
10	" 28	I	e	7 09.9						
			ME	13 07	14		5			
			MN	14 54	12	2¾				
			F	7 30						
11	" 30	I	e	7 54.7	5					
			e	8 00.7	8					
			eL	2.1	16					
			MN	3 49	15	4½				
			ME	5 25	15		6			
			F	8 30						

E. F. Pigot S.J.

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	(1)	143	8.0	6.4	0.01
	(3)	131	10.1	4.5	0.01
A_E	(1)	161	6.3	4.0	0.01
	(3)	131	9.7	7.5	0.02
A_Z	(2)	76	5.2	3.9	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.	
12	Feb. 1	I_r	eP	17 14.3	5	-	1½		2800	
			eS	18.8	7	-	1			
			eL	21.5	20					
			ME	23 27	18		4½			
			MN	24 20	14	4				
			F	17 50						
13	" 13	I	e(L?)	21 18.1	20					
			ME	20 55	14		8			
			MN	22 09	14	9				
			F	21 45						
14	" 14	I	e	22 46.7						
			e	50 0						
			ME	51 02	6		2½			Remarkably short wave-lengths.
			MN	51 23	5	9				
			F	23 15						
15	" 18	I	e	6 54.4						
			ME	59 41	15		6			
			MN	59 53	14	11				
			F	7 25						
16	" 21	I	e	13 07.3	6					Very short wave-lengths.
			MN	8 27	7	2				
			ME	9 14	7		1			
			F	13 20						
17	" 25	II_r	iP	20 41 17	2	-	+3½	-3½	2500	Azim. N.90°E.
			iPR_2	42 52	4	2	-6			
			iS	45 23	7	-19	+24			Lat. 31° S.
				45 27	7	19	36			Long. 179°E.
			iSR_2	48 34	9	+108	-48			
			eL	49.1	14					
			MN	50 20	10	44				
			iSR_4	50 50	9	-	+25			
			ME	51 19	10		20			
			MZ	51 46	10			4		F lost in No.18
18	" 25	I_r	iP	20 53 34	4	-	-6		2660	
			iPR_2	55 05	6	+26	-11			
			S	57 52	8	3½	3½			
			iSR_2	21 01 00	10	29	26			
			F	21 55						

(Continued on next sheet)

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		(See last sheet)		
A_E				
A_Z				

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N	A_E	A_Z	Δ km.	Remarks.
19	Feb. 26	I	e(S?)	3 05.5	6	$\mu\frac{1}{2}$	$\mu\frac{1}{2}$	μ		
			eL	8.5	24					
			MN_1	12 50	19	15				
			ME	13 55	12		11			
			MN_2	16 54	12	7				
			F	3 40						
20	" 28	I_u	eP	19 09.6	4				6800	
			S	17 57	9	$2\frac{1}{2}$	5			
			PS	18 28	9	6	4			
			SR_1	21 51	11	$3\frac{1}{2}$	-			
			eL	24.6	30					
			ME	28 32	25		57			
			MN	34 32	22	50				
			F	20 40						

E. F. Pigot S.J.

No 3 March 1 to 31 19 15

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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)	141	8.3	5.6	0.01
A_E	(3)	131	10.1	4.8	0.01
A_E	(1)	158	8.4	3.8	0.01
A_Z	(3)	115	9.8	2.4	0.02
A_Z	(2)	83	5.0	3.4	0.04

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.	
21	March 5	I	e	0 40.9	7					
			e	46.0	13	$1\frac{1}{2}$	$2\frac{1}{4}$			
			F	1 10						
22	" 5	I	eL	9 47.7	18					
			ME	49 56	10		$1\frac{1}{4}$			
			MN	52 46	10	2				
			F	10 10						
23	" 6	I_r	eP	0 07.1	5	$\frac{1}{2}$	-		2800	
			eS	11.6	9	$1\frac{1}{2}$	3			
			eL	13.3	18					
			MN_1	16 45	14	4				
			ME	17 33	10		5			
			MN_2	19 17	10	4				
			F	1 00						
24	" 10	I	i(N)	1 00 43	6	7				
			i(E)	0 46	6		6			
			i	4 00	7	7	9			
			eL	9.5	27					
			MN	11 03	25	45				
			ME	12 00	20		17			
			F	1 55						
25	" 10	I	e	15 22.2	5					
			MN	27 09	10	2				
			ME	28 46	10		$2\frac{1}{2}$			
			F	16 00						
26	" 11	I_r	eP	18 12.9	4				3100	
			eS	17.7	7					
			eL	20.8	23					
			ME_1	22 50	14		16			
			MN	24 23	13	10				
			ME_2	25 14	11		9			
			F	19 00						
27	" 12	I_u	eP	14 57.8	4	$1\frac{1}{4}$	-		5500	
			iPR1	15 00 37	6	-	+18			
			eS	5.0	7	-	-			
			i	5 26	7	$2\frac{1}{2}$	7			
			eL	9.6	18					
			MN	10 35	14	8				F.obscured by No.28.
			ME	11 08	15		22			
28	" 12	I	e(P?)	15 15.6	?					
			e(S?)	19.7	?					
			eL	22.2	23					
			ME	26 08	14		19			
			MN	26 44	14	9				
			F	16 20						
29	" 28	I	e	7 30.7						
			MN	39 47	15	2				
			ME	42 23	20		4			
			F	8 00						

E.F. Pigot S.

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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	8.1	4.8	0.02
	3	129	10.1	5.4	0.01
A_E	1	156	7.2	3.0	0.01
	3	148	9.5	4.4	0.03
A_Z	2	87	4.8	3.0	0.04

4

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.	
30	April 3	I_u	eP	14 01.5	4	1	1		5900	
			eS	9.0	?					
			eL	17.5	25					
			ME	23 00	18		7			
			MN	25 42	14	2				
			F	14 50						
31	" 8	I	e	14 15.0	?					
			eL	37.4	23					
			ME	42 11	17		6			
			MN	42 53	17	3				
			F	14 55						
32	" 8	I	eL	17 40.1	20					
			ME	43 12	13		6			
			MN	45 16	11	1				
			F	18 00						
33	" 16	I_u	eP	14 05.4	3	-	-	2	5950	
			iS	12 57	5	+2	+2½			
				13 00	5	5	7			
			eL	21.5	13					
			ME	23 27	8		1			
			MN	24 30	9	1½				
			F	14 50						
34	" 16	I_r	iP	18 46 50	4	2	-	-¾	2700	
			S	51 09	9	1½	½			
			eL	51.6	15					
			MN	52 20	13	3				
			ME	54 35	10		2½			
			F	19 40						
35	" 17	I_r	eP	19 31.5	4	-	½		2100?	
			e(S?)	35.0	6	1	-			
			eL	37.3	18					
			MN	39 28	11	2				
			ME	39 41	11		6			
			F	20 05						

(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				

4

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
36	April 17	I	eL	21 43.8	14					
			ME	45 30	11		5			
			MN	45 46	11	2				
			F	22 10						
37	" 22	I	e?	19 17.5						
			eL	28.1	21					
			ME	33 08	19		3			
			MN	36 33	12	2½				
			F	20 00						
38	" 25	I_r	iP	0 02 15	?				2800	
			i	3 52	6	-	½	+2½		
			iS	6 43	8	½	+6			
				6 47	8	1	8			
			i(SR2)	9 37	8	+3	-5			
			i(SR4)	11 42	8	-7	+7			
				11 48	8	9	11			
			eL	14.2	12					
			MN	15 56	13	3				
			ME	20 35	10		1			
			F	0 50						
39	" 27	I_r	eP	11 31.1	5½	1	½		2500	
			i	31 24	5½	-	-	-1		
			eS	35.2	6	½	½			
			iS	35 23	6	+2	+5			
			PS	35 40	7	2	10			
			eL	36.2	14					
			MN	36 48	14	14				
			ME	37 20	9		4			
			F	12 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				
A_E	(See April Bulletin)			
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.
					2					
	May 1	II_u	eP	5 12.3	11				9100	AZ. N.9½° E.
			iP	12 25	11	+25	+4	-51		
				12 36	11	21	3	31		Lat. 47° N.
			i	13 18	13	30	16	-84		
			PR_1	15 41	13	10	10	-		Long. 165° E.
			iS	22.34	14	-70	-96	+54		
				23 00	14	294	130	18		
			PS	23 53	17	97	78	28		
			SR_1	28 18	21	92	88	-		
			eL	37.7	42	-	-	-		
			MN_1	40 18	23	229				
			ME_1	41 54	24		435			
			MN_2	43 20	21	609				
			MN_3	44 04	21	626				
			MZ_1	44.08	19			402		
			ME_2	44 41	18		196			
			MZ_2	48 12	18			232		
			MN_4	48 24	18	324				
			ME_3	48 34	18		273			
			MZ_3	52 20	17			152		
			MN_5	53 42	15	124				
			ME_4	57 34	17		165			
			MN_6	58 14	18	114				
			C	6 05 20	14	73	70	45		
			F	9 55						
	" 3	III_r	iP	4 08 43	4	-	+1	-1½	3400	Probable Approximate position of origin; Lat. 28° S. Long. 174° W.
			S	13 55	?					
			PS	14 23	16	24	19	-		
			eL	17.5	50	(Angenheister)				
			M1	19.7	27	778	1204	690		
			ME_2	20 23	14		1220			
			MN_2	23 30	14	645				
			ME3	24 04	11		460			
			MZ_2	24 30	9			380		
			MN_3	24 37	9	365				
			ME_4	27 30	8		195			
			C	41 17	8	25	25	7		
			F	6 50						

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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)	143	8.0	5.0	0.01
A_E	(3)	119	10.0	5.2	0.02
	(1)	148	7.3	3.0	0.009
A_Z	(3)	128	9.3	3.1	0.04
	(2)	90	~~4.1~~ 4.9	4.4	0.04

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
40	May 1	II_u	eP	5 12.3	s 11				9100	Azim. N.9½° E.
			iP	12 25	11	+25	+4	-51		
				12 36	11	21	3	31		Lat. 47° N.
			i	13 18	13	30	16	-84		
			PR_1	15 41	13	10	10	-		Long. 165° E.
			iS_1	22 34	14	-70	-96	+54		
				23 00	14	294	130	18		
			PS	23 53	17	97	78	28		
			SR_1	26 18	21	92	88	-		
			eL_1	37.7	42					
			MN_1	40 18	23	229				
			ME_1	41 54	24		435			
			MN_2	43 20	21	609				
			MN_3	44 04	21	626				
			MZ_1	44 08	19			402		
			ME_2	44 41	18		196			
			MZ_2	48 12	18			232		
			MN_4	48 24	18	324				
			ME_3	48 34	18		273			
			MZ_3	52 20	17			152		
			MN_5	53 42	15	124				
			ME_4	57 34	17		165			
			MN_6	58 14	18	114				
			C	6 05 20	14	73	70	45		
			F	9 55						
41	" 2	I	e	4 43.7	18	3				
			e	48.6	18	3				A few long waves.
			e	56.4	20		5			
			e	5 01.5	17					
42	" 2	I	e(P?)	7 06.3						
			eS	15 40	9	1½	1¼			
			eL	23.4	28					
			MN	26 13	18	6				
			ME	26 34	18		11			
			F	8 10						
43	" 3	I	e(S?)	3 50.0	?					
			eL	59.4	20					
			ME	4 02 13	17		3			
			MN	4 00	19	7				F. lost in N° 44

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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				
A_E		(See last sheet)		
A_Z				

5

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
44	May 3	III_r	iP	4 08 43	4	-	+1	$-1\frac{1}{2}$	3400	Probable approximate position of origin Lat. 28°S. Long. 174°W.
			S	13 55	?					
			PS	14 23	16	24	19	-		
			eL	17.5	50	(Angenheister)				
			M_1	19.7	27	778	1204	690		
			ME_2	20 23	14		1220			
			MN_2	23 30	14	645				
			ME_3	24 04	11		460			
			MZ_2	24 30	9			380		
			MN_3	24 37	9	365				
			ME_4	27 30	8		195			
			C	41 17	8	25	25	7		
			F	6 50						
45	" 3	II_r	eP	12 24.3	5	1	$\frac{1}{2}$		2200?	Short wavelengths.
			i(S?)	28 02	6	-	+7			
			PS?	28.6	6	14	23			
			eL	29.6	10					
			M_1	29.9	8	18	24			
			ME_2	32 47	6		15			
			MZ	33 11	6			4		
			MN_2	35 10	6	18				
			ME_3	36 30			14			
			F	14 05						
46	" 3	I	e	20 00.1	6		2			Short wavelengths.
			MZ	1 15	6			$1\frac{1}{4}$		
			MN	1 28	7	$1\frac{3}{4}$				
			ME	1 53	8		$2\frac{1}{2}$			
			F	20 15						
47	" 3	II_r	eP	21 59.8	4	-	1		1400?	Short wavelengths.
			iP	22 00 02	4	-	-4			
			e(S?)	2.3	6	-	3			
			e(L?)	4.5	12					
			M_1	6.1	7	34	58	-		
			M_2	8.0	8	52	57	-		
			MN_3							
			MZ	10.7	7	49		27		
			ME_3	12 19	7		45			
			F	23 30						

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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)	145	8.0	4.7	0.01
A_N (3)	126	10.1	4.7	0.02
A_E (1)	152	7.2	3.0	0.01
A_E (3)	141	11.3	2.5	0.03
A_Z (2)	88	5.0	4.0	0.03

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1915									
71	Aug. 3	III_r	iP	13 11 38	4	+10	-4½	-2½	3500	Azim. N.25° W.
			i	11 50	4	-19	+10	+8		Lat. 5°S.
			iPR_1	13 06	6	+15	-6	-8		Long. 138°E.
			eS	16.9	7					
			iS	17 02	7	+29	+11	-5		(Dutch New Guinea.)
			eL	18.9	28					
			MZ_1	23 33	6			170		
			ME_1	23 40	6		247			
			MN_1	24 23	6	174				At $13^h26^m26^s$,
			ME_2	25 30	5		237			displacement of
			i	26 26	6	-170	+?	+160		zero (-) on NS.
			MN_2 / MZ_2	26 43	11	720		600		component of both Nos.1 & 3.
			ME_3	27 27	6		165			
			C	30 10	6	56	56			
			F	1540						
72	" 3	I_r	eP?	15 58.8	2				1550	
			iS	16 01 33	5	-	+4½			
			eL	1.9	?					
			MN_1 / ME_1	2 50	5	7	8			
			MN_2	5 46	12	19				
			ME_2	5 48	12		7			
			MZ	5 50	12			6		
			F	16 15						
73	" 6	I_u	iP	13 24 18	4	-1¼	-	+1¾	9000?	
			eS?	34.5	9	1½	1¼	-		
			SR_1	39 13	?					
			eL	51.2	24					
			MN_1	53 04	19	10				
			MN_2	57 19	18	6				
			ME_1	58 26	18		7			
			ME_2	14 03 42	18		7			
			MN_3	4 40	18	9				
			MN_4	7 50	17	8				
			F	14 55						
74	" 8	II_r	eP	0 50.2					1350	
			eS	52.6	6	1¾	¾			
			eL	53.1	21					
			MN_1	54 21	10	44				
			ME_1	54 42	10		35			
			MN_2	58 40	10	22				
			ME_2	59 48	10		21			
			F	1 35						

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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.
	1915			h. m. s.	s.	μ	μ	μ	km.	
75	Aug. 12	I_r	eP	7 44.5	5	-	$\frac{1}{2}$		4800	
			eS	51.0	8	5	-			
			i	51.2	8	8	2			
			SR_1	54.4	9	$3\frac{3}{4}$	6			
			eL	58.5	25					
			ME1	8 02.5	16		14			
			MN_1	2.6	16	17				
			ME_2	5.7	12		8			
			MN_2	6.8	12	8				
			F	8 55						
76	" 12	I	iP	9 37.3	5	$\frac{1}{2}$	$-2\frac{1}{4}$			
			eL	51.2	25					
			MN	56.7	15	7				
			ME	59.6	17		6			
			F	10 30						
77	" 12	I	e	10 35.6						
			ME	47.5	15		3			
			MN	48.6	13	2				
			F	11 0						
78	" 12	I_r	eP	13 35.0					4900?	
			e(S?)	41.6	7	$\frac{1}{2}$	$\frac{1}{2}$			
			eL	49.1	24					
			MN	53 53	20	4				
			ME	55 11	16		6			
			F	14 20						
79	" 16	I_u	e(P?)	1 20.4	6	$1\frac{1}{4}$	$\frac{1}{2}$		8800?	
			e(S?)	30.4	?					
			eL	41.3	22					
			MN_1	42 12	21	9				
			ME	44 00	17		$3\frac{1}{4}$			
			MN_2	48 55	17	$5\frac{1}{2}$				
			F	2 25						
80	" 18	I	e	7 44.4	12	4	3			A few sinusoidal waves,
81	" 19	I	eP	0 21.6	5	$1\frac{1}{4}$	$\frac{1}{2}$			apparently seismic, but
				22 00	5	$1\frac{3}{4}$	$2\frac{1}{4}$			strong squally SW gale
			e?	27.6	10	1	-			blowing for some hours.
			e(L?)	47.5	19					
			MN	54 13	14	5				
			ME	1 04 20	17		3			
			F	1 25						
82	" 23	I	e	16 08.6						
			M	11.4	10	23	$2\frac{1}{2}$			
			F	16 25						
83	" 31	I_r	eP	20 56.1	5	1	1		1950	
			eS	59.4	10	$1\frac{3}{4}$	$\frac{3}{4}$			
			eL	21 03.2	?					
			ME	4 33	17		6			
			MN	7 24	21	4				
			F	21 40						

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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	8.0	5.1	0.01
(3)	127	10.0	5.0	0.016
A_E (1)	152	7.3	2.7	0.01
(3)	147	11.2	3.8	0.03
A_Z (2)	88	5.1	3.8	0.03

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1915			h. m. s.	s.	μ	μ	μ	km.	
84	Sept. 1	I	e	1 37.6						
			MN	43 47	9	1½				
			ME	49 30	9		½			
			F	1 55						
85	" 3	I_r	eP	22 53.5	4	1¼	1		3800	
			eS	59.1	8	-	2			
			eL	23 05.0	20					
			M_1	6 42	17	25	34			
			ME_2	12 08	13		18			
			MN_2	13 23	12	7				
			F	23 40						
86	" 6	I_r	eP	17 32.7	5½	½	1¼		4000	
			eS	38.5	9	4	½			
			PS	39 00	10	-	5			
			eL	41.2	24					
			MN_1	42 36	18	32				
			MZ_1	43 43	24			13		
			ME_1	45 10	17		28			
			MN_2	45 34	12	20				
			ME_2	49 23	13		16			
			MN_3	53 04	12	18				
			ME_3	53 10	12		20			
			MZ_2	53 47	13			10		
			F	19 25						
87	" 7	II_u	eP	1 39.7	3				10,900	
			e ⊛	41.1	19	3½	31	15		⊛ Perhaps the P of another eqke.
			PR_1	42 53	26	7	32	-		
				47 22	13	6	19	-		
			eS	51.3	22	10	196	32		
			PS	53 00	18	-	116	27		
			SR_1	56 09	20	12	27	-		
			SR_2	58 05	30	75	275	-		
				2 02 14	22	24	106	-		
			eL	16.5	34					
			MZ_1	17 38	27			126		
			ME_1	17 44	26		237			
			MN_1	18 08	26	112				
			MN_2	23 07	21	70				
			ME_2	27 05	16		94			
			MZ_2	27 16	17			48		
			MN_3	33 25	17	23				
			ME_3	34 07	17		46			
			C	40 35	16	22	19			
			F	6 15						
88	" 8, 9)	I	e	23 44.7						
			ME	52 49	11		1			
			MN	53 13	10	2				
			F	0 05						

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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.
	1915			h. m. s.	s.	μ	μ	μ	km.	
89	Sep. 12	I_r	iP	0 06 58	4	$-1\frac{3}{4}$	$+3\frac{1}{2}$	+5	4430	SE of Java.?
				7 01	4	$3\frac{2}{3}$	3	8		
			iS_N	13 09	6	+9				
			iS_E	13 11	6	14	-8	$1\frac{1}{4}$		
			eL	22.0	16					
			MZ	27 41	13			7		
			ME	27 53	13		8			
			MN	29 25	15	8				
			F	1 20						
90	" 13	I	e	18 15.2						
			ME	22 16	12		4			
			MN	22 49	12	$1\frac{1}{4}$				
			F	18 50						
91	" 17	I_r	eP	4 26.8					2500	
			eS	30.9	?					
			eL	34.4	19					
			M	36 44	12	12	13			
			F	5 20						

E. F. Pigot F.

No 10 October 1 to 31 19 15

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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	8.0	4.5	0.01
A_E (3)	129	10.1	5.8	0.02
A_E (1)	150	7.3	2.9	0.01
A_Z (3)	155	11.0	6.5	0.02
A_Z (2)	86	5.0	4.6	0.04

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1915			h. m. s.	s.	μ	μ	μ	km.	
92	Oct. 3	I	e(P?)	7 11.4	?					
			eS	22.1	11					
				22 36	11	3¼	4½			
			eSR_1	28.1	25					
				28 42	25	19	30			
			eL	39.5	39					
			MN_1	49 10	19	11				
			ME_1							
			MZ 1)	49 40	21		55	20		
			MN_2	56 51	17	14				
			ME_2	57 15	17		16			
			ME_3	8 05 18	17		19			
			MN_3	5 34	17	11				
			ME_4	13 00	17		22			
			MN_4	13 10	19	18				
			MN_5	20 36	17	8				
			ME_5	23 40	15		7			
			MN_6	29 55	17	8				
			ME_6	34 15	15		7			
			C_1	9 01 47	17	8	6			
			C_2	7 30	18	12	11			
			F	10 00						
93	" 5	II_r	iP	13 52 51	4	-	+3		2680	
			PR_1	54 25	5	1¾	5			
			iS	57 10	7	-19	+17			
			PS	57 41	7	11	9			
			eL	14 00.8	17					
			MN	2 07	12	27				
94	" 5	II_r	iP	14 00 14	5	-11	+10		4500	
				0 33	6	-	17			
			iPR_1	2 20	7	-32	+22			
			iS	6 29	9	-7	+31			
			eL	11.5	13?					
			MN	13 18	12	12				
			ME	16 18	11		5			
			F	16 00						
95	" 10	I_r	eP	5 55.3	4	½	-		3200	
					2)					
			eS	6 00 15	17	11	3			
			eL	3.8	24					
			ME	5 39	17		19			
			MN	6 26	17	20				
			F	7 10						
96	" 12	I	e	7 27.5						
			ME	30 34	?					
			MN	31 54	13	3				
			F	7 45						

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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.
	1915			h. m. s.	s.	μ	μ	μ	km.	
97	Oct. 13	I	e	1 52.5						
			e	58.4	8	-	$\frac{1}{2}$			
			eL	2 02.0	18					
			ME	3 48	17		3			
			MN	5 14	13	3				
			F	2 20						
98	" 18	I	e	14 39.8						
			e	44.2	4	$\frac{1}{2}$	1			
			eL	46 18	15					
			MN	50 23	12	$2\frac{1}{2}$				
			ME	50 32	12		$1\frac{1}{4}$			
			F	15 10						
99	" 19	I_r	eP	22 29.2	3				2250	
			iP	29 17	3	-2	$-\frac{1}{2}$	$+2\frac{3}{4}$		
			eS	32 57	6	$1\frac{1}{2}$	8			
			eL	33.4	18					
			MN	34 25	13	9				
			ME	34 47	12		6			
			F	23 20						
100	" 23	I_r	eP	11 54.6	5	$\frac{1}{2}$	-		3900	
			eS	12 00.3	8	2	$\frac{1}{2}$			
			eL	2.8	19					
			MN	5 23	14	7				
			ME	6 18	12		19			
			F	12 45						
101	" 31	I_r	eP	8 32.5					2500	
			eS	36.6	8					
				36 53	8	$1\frac{1}{4}$	2			
			eL	38.5	21					
			ME	42 15	12		7			
			MN	44 14	12	7				
			F	9 25						

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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	8.0	4.8	0.01
A_N (3)	125	10.1	6.3	0.02
A_E (1)	152	7.3	3.0	0.01
A_E (3)	155	11.1	6.6	0.02
A_Z (2)	89	5.0	3.3	0.04

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1915			h. m. s.	s.	μ	μ	μ	km.	
102	Nov. 1	II_u	eP	7 35.6	4½	2½	-		7700	
			eS	44.7	9	4	5			
			PS	45 10	9	10	10			
			eL	53.5	32					
			ME_1	57 00	21		77			
			MN_1	58 00	18	43				
			MZ_1	8 02 07	20			18		
			ME_2	2 22	20		99			
			MN_2	3 00	21	110				
			MZ_2	3 35	19			39		
			MZ_2	5 00	18			21		
			MN_3	7 16	18	78				
			ME_3	10 27	17		34			
			MN_3	13 46	16	40				
			ME_4	19 21	20		50			
			C	25 23	16	15	30			
			F	10 20						
103	" 1	I	e	18 01.1						Seismograph No.3.
			eL	6.2	20					
			MN	6 47	14	5				
			F	18 30						
104	" 6	I	e	11 45.2						
			eL	54.7	15					
			MN	56 12	13	13				
			ME	56 24	12		8			
			F	12 15						
105	" 7	I	e	7 49.5						
			e	54.1						
			eL	57.7	19					
			MN_1	59 18	14	4				
			ME_1	8 01 19	12		10			
			MN_2	3 09	13	3				
			ME_2	4 04	10		5			
			F	8 25						
106	" 14	I	e	11 14.2						
			e	16.8						
			M	19 27	10	¾	¾			
			F	11 27						
107	" 14	I	e	11 30.2						
			MN	32 21	12	2½				
			ME	32 54	10		¾			
			F	11 40						

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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.
	1915			h. m. s.	s.	μ	μ	μ	km.	
108	Nov. 20	I_r	eP	14 57.1	3½	-	½		3000?	
			e(PR1?)	57.9	4					
				58.6	4	-	4			
			eL	15 04.9	21					
			MN_1	6 53	14	7				
			ME_1	7 33	16		19			
			MZ	9 04	15			9		
			MN_2	13 02	11	6				
			ME_2	15 42	14		10			
			F	16 20						
109	" 21	I	e	0 43.0	7		4¼			
			e	48.1	?					
			eL	1 04 30	26					
			ME_1	7 00	21		14			
			MN_1	8 11	19	7				
			MN_2	13 04	18	6				
			ME_2	13 23	18		10			
			MN_3	17 18	16	2½				
			ME_3	17 22	16		5½			
			F	2 35						
110	" 21	I	e?	11 8.2						
			eL	17.0	18					
			MN	17 05	14	2				
			ME	19 13	14		2			
			F	11 30						
111	" 29	I	eP	22 08.1	3	-	1¾			
			eS	10.9	9	3	3			
			eL	13.5	15					
			MN	15 29	12	5				
			ME	16 01	12		11			
			F	22 30						

Erratum.

In Bulletin for Sept. last, No. 87, for eP read e, and for Δ read 13,000, instead of 10,900 km.

E. F. Pigot Sy.

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	142	8.0	5.0	0.015
A_E	3	122	10.1	4.5	0.02
	1	154	7.2	2.8	0.01
A_Z	3	155	11.0	4.1	0.03
	2	89	5.0	3.3	0.05

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1915									N.B.
112	Dec. 7	I	eL	11 58.5	21					No.111a(December 3) inadvertently omitted. See December, 3rd sheet, after No. 128.
			ME	12 02 29	17		3			
			MN	6 00	17	3				
			F	12 40						
113	" 8	I	e	16 25.7						
			eL	31.9	16					
			MN	34 57	15	7				
			ME_1	35 20	15		7			
			ME_2	38 10	13		3½			
			F	17 00						
114	" 9	I_r	eP	13 31.6	4	-	½		3300	
			eS	36.7	?					
			eL	40.3	18					
			ME	42 21	17		6			
			MN	44 40	12	4				
			F	14 25						
115	" 14	I	e	7 56.5						
			eL	8 02.3	?					
			MN	5 57	14	2				
			ME	6 06	14		4			
			F	8 20						
116	" 16	I_r	eP	13 46.5	5				3500	Strong microseisms all day
			eS	51.8	9					
			eL	55.2	17					
			ME	56 58	14		8			
			MN	57 02	14	5				
			MZ	57 29	13			7		
			F	14 30						
117	" 16	I	e	18 04.4	20*					A few long waves.
118	" 19	I	eP	20 32.1	5	½	¾			
			eL	46.5	22					
			MN_1	50 54	15	4½				
			ME	56 50	13		3½			
			MN_2	57 09	12	2½				
			F	21 50						
119	" 20	I	eP	18 20.8	4	1¼	1			
				21.6	4	1¼	1½			
			eL	24.3	13					
			MN	24 29	12	4				
			ME	24 43	12		3			
			F	18 35						
120	" 21	I	e	9 11.2	7	-	½			
			eS	15.1	9	2½	2			
			eL	17.0	15					
			ME	18 50	14		2			
			MN	19 02	13	5				
			F	9 45						

(Continued on next sheet)

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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*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1915									
111a	Dec. 3	I_u	e(P?)	2 51.8	5	½	½			(See Note, Dec.7)
			e(S?)	3 02.4	8½	1½	-			
				2 34	8½	3½	1½			
			eSR_1?)	7.5	10	2	½			
			eL	17.5	?					
			MN_1	24 02	26	14				
			ME^1	28 32	22		11			
			MN_2	29 02	22	5				
			F	4 50						

E. F. Pigot S.J.

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

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

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
121	Dec. 22	I	eP	11 56.6	5½	½	1¼			
				56 46	5½	½	3			
			MN	12 03 15	12	1¼				
			ME	5 51	10		4			
			F	12 15						
122	" 27	I_r	eP	4 11.8	5	½	-		3500	
			eS	17.1	8	1¼	1½			
			eL	21.6	21					
			ME	24 00	13		17			
			MN	25 65	14	18				
			F	5 15						
123	" 28	I	e	23 58.1	4½	-	½			
	29		i(S?)	0 08 17	9	3	1¼			
			eL	31.9	28					
			M	34.5	4½	5				
			F	i 25						
124	" 29	I	e	22 38.8						
			e	46.9	8					
			eL?	52.0	17					
			MN	54 25	15	2				
			ME	54 34	15		2½			
			F	23 20						
125	" 31	I	e	12 48.8	7					
			e	53.8	10	2	1			
			eL	13 05.0	24					
			ME_1	15 07	17		6			
			MN_1	15 40	18	3				
			MN_2	22 09	16	2½				
			ME_2	23 07	17		3			
			F	13 55						
126	" 31	I_r	eP	13 22.7	3	½	½		2400	Other phases merged in N°125
			eS	26.7	5	1¼	¼			
127	" 31	II_r	iP	23 00 47	4½	+?	+?		2820	
			iPR_1	02 18	5	+6	+14			iP, just before hour mark, amplitude uncertain.
			PR_2	3 10	5	1	5			
			iS	5 17	8	-27	+25			
				5 20	8	28	40			
			PS	5 31	6	6	10			
128	" 31	II_r	iP	23 05 56	4	1¼	+19		2720	Later phases merged in N°128
			iPR_1	7 28	5	-7	9			
			iPR_2	8 12	6	5	+11			
			iS_2	10 18	8½	+32	+51			
			PS	10 21	8½	11	36			
			MN_1	11 21	12	25				
			ME_1	12 03	12		21			
			MN_2	12 54	11	17				
			ME_2	16 32	10		8			
			F	0 35						

See next sheet