Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS :

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

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	206	7.8	5.5	0.02
A_E (3)	128	10.5	4.0	0.02
A_E (1)	200	7.7	5.5	0.02
A_Z (3)	116	11.5	11.0	0.015
A_Z (2)	76	5.3	6.3	0.03

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(S?)	12 22.9	9					
			eL	27.1	18					
			MN MZ)	31 42	12	7		6		
			ME	33 18	10		11			
			F	13 35						
2	" 3	I	S?	18 26.0	10	1¼	-			
			eL	30.4	18					
			ME	31 20	17		4½			
			MN	31 32	17	4				
			F	19 00						
3	" 7	I_r	eP	19 07.3					2700	
			eS	11.7	10	1½	-			
			PS	12 09	11	3¼	-			
			eL	15.5	22					
			MN_1	17 32	20	12				
			ME_1	18 06	13		11			
			MN_2	22 12	13	4½				
			ME_2	22 57	15		7			
			F	20 00						
4	" 11	I_r	iP	9 12 42	1½	-	-1	-1¼	2540	
			iS	16 50	4	-4	+¾	-		
				16 53	4	8	1¼	1		
			eL	20.5	13					
			MN	21 16	11	1½				
			ME	26 20	12		1			
			F	9 40						
5	" 12	I_u	eP	9 39.2	5				7500	Kagoshima (Japan)
			S	48.5	7	¾	-			
			iPS	49 16	7	+3	1½			
			e(SR_2?)	55.8	15	-	3½			
			eL	10 03.3	23					
			ME	4 56	18		5			
			MN	5 03	18	5				
			F	10 45						
6	" 13	I	i	3 08 57	6	-6	+4			
			i	14 10	8	+10	+5			
			F	3 30						

(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)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
7	Jan. 15	II_r	eP	19 13.8	5				3900	
			S	18 29	9	2¼	3½			
			eL	20.6	18					
			MN_1	21 51	16	117				
			MN_2	23 05	13	83				
			ME_1	24 25	13		41			
			MN_3	25 39	11	78				
			ME_2	26 10	11		27			
			C	35 33	11	17	13			
			F	21 25						
8	" 16	I_r	eP	12 24.4	3	-	1		2600?	
				25 32	4	2½	10			
			e(S?)	28 38	6	4	2			
			eL	31.6	13					
			MN	31 41	9	1				
			ME	34 08	10		1½			
			F	12 50						
9	" 18	I	e(L?)	10 42.7	25					
			ME	46 25	20		3			
			MN	48 30	13	1				
			F	11 00						
10	" 18	I	e	12 37.6	9	½	-			
			e?	54.6	?					
			MN	13 15 50	17	2				
			ME	16 30	16		2			
			F	13 35						
11	" 20	I_u	eP	12 13.0	5	1¼	-		9400	Kamtchatka
			eS	23 29	7	2	2¼			
			eL	40.0	35					
			MN_1	42 30	26	21				
			ME	45 09	22		11			
			MN_2	47 30	18	7				
			F	13 40	1½					
12	" 26	I_r	eP	22 25.3	8	3	1½	2½	2850	
			iS	29 50	10	3	-13			
			PS	30 00	10	6	14			
			eL	30.9	19					
			MN_1	32 30	15	24				
			ME_1	33 16	15		12			
			MN_2	33 37	13	16				
			MN_3	35 45	13	19				
			ME_2) MZ	37 33	10		18	4½		
			F	23 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.
				h. m. s.	s.	μ	μ	μ	km.	
13	Jan. 29	I	e	0 09.5						
			MN	17 00	10	3				
			ME	18 25	9		$2\frac{1}{2}$			
			F	0 40						
14	" 30	I_u	eP	3 47.9	5	$3\frac{1}{2}$	$\frac{3}{4}$		11,000	Chile
			S	59.3	?					
			PS	4 00.7	12	7	3			
			e(SR_1?)	8.4	20	6	12			
			eL	18.5	33					
			M_1	23 26	32	32	34			
			ME_2	37 35	15		7			
			MN_2	40 35	15	6				
			ME_3	50 07	15		5			
			MN_3	52 16	13	$3\frac{1}{2}$				
			eW2	6 01.6	30					
				8.7	21	13	17			
			F	7 10						
15	" 30	I	e(SR_1?)	8 25.1	20	3	6			
			e	51.3						
			MN_1	51 32	13	$2\frac{1}{4}$				
			ME_1	57 12	12		2			
			MN_2	57 23	12	2				
			MN_3	9 02 30	11	$1\frac{1}{2}$				
			ME_2	6 32	13		$1\frac{1}{4}$			
			F	10 00						
16	" 31	I	e(P?)	13 28.8	5	$\frac{3}{4}$	$\frac{3}{4}$			
			eL	39.2	18					
			MN	42 20	13	2				
			ME	45 34	19		6			
			F	14 30						
17	" 31	I	eP	14 41.6						
			eL	48.8	23					
			M	50.4	17	2	5			
			F	15 25						

E. F. Pigott S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS :

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

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	209	7.7	5.5	0.03
A_E (3)	121	10.7	5.2	0.02
A_E (1)	198	7.7	5.3	0.02
A_Z (3)	118	11.4	12.2	0.01
A_Z (2)	76	5.3	5.5	0.03

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
18	Feb. 4	I_r	eP	18 53.0	(5				2660	
			S	57.3	10	1¼	¾			
			eL	19 01.2	23					
			ME	4 20	13		11			
			MN MZ	5 30	15	6		10		
			F	19 40						
19	" 7	I	e(PR1?)	7 05.5	?					
			S?	11.4	13	-	2½			
			eL	28.3	24					
			MN	31 50	21	3				
			ME_1	34 34	15		2			
			ME_2	45 15	16		4			
			F	8 50						
20	" 8	I_r	eP	0 07.3	5	¾	1¼		2300	
			iS	11 06	7	-1½	-5			
			PS	11 28	7	2	2			
			eL	12.5	22					
			MN	13 57	12	2				
			ME	14 17	12		2			
			F	0 25						
21	" 8	I	eL	16 06.0	19					
			MN	9 53	17	4				
			ME	11 12	13		1¼			
			F	16 20						
22	" 12	I	e	18 10.4	16					
			MN	10 46	13	1				
			ME	12 25	13		1			
			F	18 40						
23	" 14	I	e?	6 49.2						
			e?	56.3						
			eL	7 09.1	17					
			ME	21 20	13		5			
			MN	22 41	13	2½				
			F	8 40						
24	" 15	I_r	iP	1 21 27	(1 5	-¾	-5	+5	2640	Azim. (from iP) N.81° E.
			iS	25 43	8	-9	-20	-		Lat. 27° S.
			e	28.8	6	3	2½			Long. 179° E.
				29 02	8	6	-			
			i	30 54	8	+10	+ 6			
			ME_1	31 20	10		2			
			MN	32 38	10	2				
			ME_2	35 27	10		2			
			F	2 25						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS :

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

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

2

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
25	Feb. 16	I_r	eP	11 32.8					2900	
			eS	37.4	?					
			eL	41.3	18					
			ME	44 13	13		8			
			MN	44 20	13	17				
			MZ	44 26	12			6		
			F	12 30						
26	" 16	I_r	eP	12 51.2	4				2500	
			eS	55.3	8	1	3			
				55 30	8	8	3			
			eL	57.1	20					
			MN_1	58 42	10	7				
			ME_1	58 52	10		17			
			MZ	59 53	10			4		
			M_2	13 01.8	9	12	9			
			F	14 15						
27	" 17	I_r	eP	19 44.0	2				2660	
			S	48 18	6	$1\frac{1}{2}$	$1\frac{1}{4}$			
			eL	50.0	15					
			ME	51 40	9		2			
			MN	54 27	9	1				
			F	20 25						
28	" 20	I	e?	8 56.3						
			eL	9 03.6	30					
			M	6.0	17	4	7			
			F	9 30						
29	" 22	I	e(S?)	23 02.0	9	-	$\frac{1}{2}$			
			eL	7.0	17					
			MN	7 20	13	$2\frac{1}{2}$				
			ME	8 30	13		$2\frac{1}{2}$			
			F	23 30						
30	" 26	I_u	ePR_1	5 17.4	6	$\frac{3}{4}$	$\frac{3}{4}$		13,000	Arequipa (Peru)
				18.1	6	$1\frac{1}{4}$	$1\frac{1}{4}$			
			S?	27.1	9	3	2			
			PS	27 40	9	6	4			
			SR_1	34 04	16	-	10			
			eL	45.8	26					
			MN_1	51 17	25	14				
			ME_1	51 22	25		15			
			ME_2	54 34	19		11			
			MZ	54 52	19			16		
			MN_2	54 55	19	11				
			F	7 25						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS :

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

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

3

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.	
35	Mar. 6	I_u	eP	19 18.0	?				9600	Kamtchatka
			eS	28.7	9	½	-			
			SR_1	34 07	11	2	-			
			eL	46.9	31					
			MN	53 47	18	8				
			ME	55 00	19		9			
			F	20 45						
36	" 6	I	eL	21 20.2	22					
			MN	21 35	22	4				
			ME	26 35	18		3			
			F	21 45						
37	" 7	I_r	iP	11 28 39	3	-2¼	+ 2½	+ 7	3500	Az. N. 45½° W.
			iS	33 54	5	-3	-3			
			eL	36.9	10					Lat. 10° S.
			MN)	42 30	8	1½	1			
			ME)							Long. 129° E.
			F	12 05						Remarkably short wave-lengths.
38	" 12	I	e	19 44.2	8	½	½			
			F	20 35						
39	" 14	I_u	eP	20 12.4	5				8200	Akita Japan.
			iP	12 32	5	-1	-	-1		
			eS	22.0	8	1	1			
			eL	30.4	22					
			ME_1	35 30	18		5			
			MN_1	36 20	20	6				
			MN_2	39 53	20	6				
			ME_2	42 28	14		3			
			F	21 40						
40	" 16	I_u	eP	22 53.4					6300	
			S	23 01 19	?					
			eL	5.2	18					
			ME	13 35	11		3			
			MN	13 56	11	3				
			F	23 35						
41	" 18	I_u	eP	4 33.8					8900	
			eS	43.9	9	½	1			
			eL	58.0	27					
			ME_1	5 06 38	18		5			
			MN_1	8 37	18	8				
			MN_2	15 28	16	2				
			ME_2	18 35	14		3			
			F	6 00						

(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	1	199	7.8	5.3	0.03
A_E	3	127	10.5	4.5	0.02
	1	193	7.8	5.5	0.02
A_Z	3	114	11.7	>20	0.01
	2	77	5.3	5.8	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.
31	Mar. 4	I_r	iP	13 20 19	4	-2½	-1	+1¼	2760	
			S	24 44	7	1¼	-			
			PS	25 09	8	4	2½			
			eL	27.2	16					
			M_1	31.3	12	5	6			
			ME_2	34 47	12		5			
			MN_2	35 12	12	5				
			MN_3	38 10	12	6				
			F	14 55						
32	" 4	II_r	eP	15 26.7	2/4				2800	
			eS	31.2	8	1½	½			
				32 28	8	10	-			
				32 35	8	-	12			
			eL	33.6	22					
			ME_1	37 54	12		16			
			MN_1	38 15	11	18				
			ME_2	39 09	10		17			
			ME_3	41 39	14		39			
			MN_2	42 12	14	29				
33	" 4	II_r	eP	15 52.4	4				2800	F lost in No.33.
			S	56.9	8	8	8			
				58.0	9	27	12			
			eL	59.1	27					
			M_1	16 00.0	18	57	25			
			ME_2	2 00	13		34			
			MN_2	3 03	13	41				
			ME_3	5 39	13		44			
			MN_3	7 26	13	30				
			ME_4	12 11	11		32			
			C	15.9	10	13	15			
			F	18 15						
34	" 4	II_r	iP	18 36 27	4	-4	-2¼		2800	
			PR_1	38 00	6	-	1¼			N.B. Nos 31/34 Phase-features strikingly similar; probably movement along same fault-plane.
			iS	40 55	7	+7	-2			
			eL	43.7	19					
			MN_1	45 13	13	31				
			ME_1	46 05	13		39			
			MN_2	47 05	11	29				
			ME_2	47 35	12		29			
			ME_3	49 45	11		28			
			MN_3	51 30	11	25				
			F	20 50						

(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.
				h. m. s.	s.	μ	μ	μ	km.	
42	Mar. 18	I_u	eP	6 30.5	5	-	½		9600	
			eS	41.2	?					
			eL	7 04.3	22					
			MN	10 15	17	2				
			ME	14 22	18		2½			
			F	7 55						
43	" 20	I	e	8 08.5	?					Strong micro-seismic move-ment all day.
			eL	11.7	13					
			ME	12 25	10		3½			
			MN	12 44	10	2				
			F	8 35						
44	" 20	I	e	11 31.1	30					A few long waves.
45	" 20	I	e	15 10.3	25					" " " "
46	" 20	I	e	22 19.8	?					" " " "
47	" 27	I	e	1 44.5	22					" " " "
			e	51.7	18					
			e	2 03.2	18					
			e	3.5	18					
48	" 27	I	e	16 45.1	13					
			e	48.2	19	-	3			
			e	56.9	20?					
			F	17 10						
49	" 28	I_u	eS	11 06.9	10	-	¾			Burmah ?
			eL	29.1	27					
			M	37.2	18	5	5			
			F	12 05						
50	" 30	I_u	eP	0 58.0	6	-	½		13,000	
			eS	1 11.1	15	2	14			
			eSR_1	17.5	18	2½	5			
				18 03	18	10	20			
			eL	35.6	29					
			ME_1	40 20	22		15			
			MN_1	41 37	17	5				
			MN_2	46 08	16	8				
			ME_2	47 39	16		8			
			MN_3	57 00	14	3				
			ME_3	57 20	14		8			
			F	3 50						
51	" 30	I	eL	21 08.1	20					
			ME	10 18	17		5			
			MN	11 24	16	2				
			F	21 45						

E. F. Pigott

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS :

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

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	(1)	204	7.7	5.5	0.02
A_E	(3)	118	10.5	5.1	0.03
	(1)	193	7.7	5.8	0.02
A_Z	(3)	123	11.2	6.7	0.03
	(2)	76	5.3	4.8	0.03

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.	
52	Apr. 3	I	iP	3 20 14	4	-	-1½	2		
			i	25 05	7	-3	-5	-		
			i	30 03	9	-	-3	-		
			eL	30.6	13					
			ME	32 43	10		1			
			MN	33 54	10	1				
			F	3 45						
53	" 3	I	e(S?)	21 54,6	?					
			eL	57.2	16					
			ME	59 20	11		4			
			MN	22 03 10	10	4				
			F	22 40						
54	" 9	I_r	eP	3 41.7					3000	
			iS	46 22	7	-3	-6			
			eL	48.4	22					
			MN	50 47	18	60				
			ME	52 18	12		22			
			F	5 25						
55	" 9	I_r	eP	9 26.7	2				2550	
			PR_1	28 25	5	½	-			
			iS	30 52	8	-9	+9			
			i(SR_1)	33 18	8	-5	-			
			e(SR_2?)	34.2	8					
			i	34 17	8	-17	-15			
			i(SR_4?)	36 02	7	-9	-20			
			eL	37.7	11					
			ME	39 34	11		3			
			MN	39 46	11	1				
			F	10 25						
56	" 10	I	e(S?)	4 02.3	6	½	-			
				3 00	7	3	½			
			eL	4.1	18					
			MN	5 42	13	7				
			ME	6 09	13		3			
			F	4 45						
57	" 11	III_r	eP	16 35.7	5	7	3½		2770	Azimuth(computed from iP), N.34° E.
			iP	35 47	5	-21	-14	+15		
			iPR_1	37 06	6	-19	-14			
			eS_1	40.0	8					
			iS	40 13	8	-44	+20			Lat. 12½° S.
			PS	40 45	8	71	66	25		
			eL	43.8	25					Long. 165° E.
			MN_1	44 29	16	420				
			ME_1 / MZ_1	45.2	16		420	125		
			ME_2	48 34	12		341			

(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				

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.
57	(Contd.)		MZ_2	16 50 04	10			82		
			ME_3	50 32	10		230			
			MN_2	51 12	10	180				
			ME_4	53 00	10		227			
			MZ_3	54 29	11			97		
			MN_3	55 27	11	213				
			MZ_4	59 49	10			123		
			MN_4	17 01 56	10	183				
			C	16 17	10	38	39			
			F	20 55						
58	" 13	I	eP?	3 34.4						
			e(S?)	39.3	7	½	-			
			eL	44.3	?					
			MN	47 53	12	2				
			ME	49 20	13		4			
			F	5 10						
59	" 14	I	eP?	2 51.7						
			e(S?)	56.0	7	½	-			
				56.8	7	1				
			eL	59.8	15					
			MN	3 02 03	11	2				
			ME	4 12	10		2			
			F	3 45						
60	" 14	I	e	19 09.0	5	½	-			
			eL	15.5	12					
			ME	17 05	10		2			
			MN	21 07	10	1				
			F	19 50						
60a	" 15	I_r	eP	3 56.7	7	?	1		2600	
			S	4 00 57	7	4	8			
			eL	2.5	22					
			ME	3 37	17		14			
			MN	4 50	13	23				
			F	5 10						
60b	" 20	I	e(PR?)	13 51.1	7	-	1			
			eS	14 01.1	10	-	¾			
			eL	22.7	40					
			MN_1	38 30	19	6				
			ME_1	39 20	18		8			
			ME_2	48 06	16		4			
			MN_2	15 09 08	20	6				
			MN_3	22 10	17	7				
			ME_3	41 48	16		2			
			F	17 15						

(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.
				h. m. s.	s.	μ	μ	μ	km.	
60c	Apr. 23	I_r	eP	16 25.0	5	1	2		2350	
				25 30	6	3	3			
			PR_1?	26 08	6	2	4			
			iS	28 52	9	6	-8			
				29 05	9	7	14			
			eL	30.1	23					
			ME	31 40	18		23			
			MN_1	32 08	13	18				
			MN_2	37 07	11	8				
			ME_2	38 35	11		4			
			F	18 10						
61	" 24	I	eL	5 38.8	40					
			MN	49 09	13	3				
			ME	50 20	14		2			
			F	6 40						
61a	" 25	I	e(P?)	7 37.0						
			eL	43.8	23					
			MN_1	47 15	13	7				
			ME	48 00	17		11			
			MN_2	50 15	10	6				
			F	8 50						
61b	" 26	I	e	10 54.3	14					
			MN	11 04 49	13	1				
			ME	5 26						
			F	11 20						
61c	" 26 27	I_r	eP	23 54.3	4	1	½		2900	Severely felt at Woodlark Id. 9° S., 152° E.
			eS	58.9	6	4	1			
			PS	59 15	6	1	2			
			eL	0 02.2	17					
			M	4.3	12	4	4			
			F	1 15						
61d	" 27	I	eP	2 16.5	5					
			eL	29.2	?					
			MN_1	36 00	13	2				
			ME	40 12	11		2			
			MN_2	42 00	10	1				
			F	3 20						
61e	" 27	I	e(P?)	4 26.4					2100?	
			e(S?)	30.0	8	½	1			
			eL	32.8	15					
			MN	39 12	15	¾				
			ME	41 04	?					
			F	5 05						
62	" 30	I	e	22 54.0	6					
			eL	23 04.4	13					
			MN	6 30	10	2				
			ME	7 33	11		1			
			F	23 20						

E. F. Pigot

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)	201	7.7	5.3	0.03
A_E	(3)	120	10.4	5.5	0.03
	(1)	190	7.7	4.5	0.03
A_Z	(3)	123	11.2	6.5	0.02
	(2)	79	5.2	4.2	0.03

5

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
63	May 1	II_r	eP	5 35.9	1½ 9				2230	
				35 56	9	7	2	6		
			iS	39 39	9	+7	+16	-		
			PS	40 08	9	31	36	12		
			eL	41.1	29					
			M_1	41 39	18	132	216	58		
			M_2	43.0	10	75	105			
			MZ_2	44 3	10			48		
			MN_3	44 47	11	143				
			ME_3	45 12	9		78			
			MZ_3	45 34	9			53		
			ME_4	47 15	7		56			
			C	53 40	8	14	20	5		
			F	7 45						
63_a	" 3	I	e(SR_1?)	23 47.9	13	2½	-			
	4		eL	56.4	25					
			MN_1	0 11 15	13	2½				
			ME_1	13 08	18		5			
			MN_2	48 46	17	5				
			ME_2	51 10	14		2			
			F	2 20						
63_b	" 7	I	e	21 06.4	20					
			M	21 57	25	10	-			
			F	21 40						
63_c	" 8	I_r	eP	11 48.2	5	-	½		3300	
			S	53 16	?					
			eL	56.0	14					
			ME	57 18	13		5			
			MN	57 45	12	11				
			F	13 25						
63_d	" 8	I	e(P?)	18 20.9						
			e	46.9	22	4	-			
			e	19 19.2	20	3	-			
63_e	" 9	I_r	eP	0 42.9	2				3200	
			PR_1	44 47	4	2¼	½			
			iS	47 49	6	+5	+4			
			SR_1	49.27	7	5	10			
			SR_2	50 24	7	2	10			
			eL	51.0	27					
			ME	54 17	13		49			
			MN	57 16	10	17				
			MZ	57 23	10			12		
			F	1 45						
64	" 14	I	e	13 29.3	?					
			M	49 03	18	2½	-			
			F	14 05						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

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

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

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.	
64_a	May 14	I	eS	21 6.7	8	½	-	-	4900	Java.
			eL	17.6	21					
			ME	28 35	?					
			MN	43 35	22	4				
			F	22 00						
64_b	" 15	I	eL	20 16.3	27					
			ME_1	24 10	16		2			
			MN_1	24 48	17	2¼				
			MN_2	31 26	15	1¾				
			ME_2	36 14	13		2½			
			F	21 35						
64_c	" 18 19	Ir	e	23 47.3					4750	Celebes.
			eS	52.9	15	10	2			
			PS	53 33	15	19	3			
			eL	55.5	22					
			ME_1	58 20	18		23			
			MZ	58 36	18			14		
			MN_1	58 50	18	42				
			ME_2	0 03 26	14		15			
			MN_2	4 25	13	17				
			F	1 00						
64_d	" 19	Ir	e(P?)	4 45.3	?				2700?	
			eS	49.6	14	3	1½			
			PS	50 15	14	7	-			
			eL	53.8	20					
			ME) MZ	55.3	18		13	14		
			MN	55 30	18	17				
			F	5 50						
64_e	" 19	I	e?	6 29.2	6					
			e(SR1?)	48.2	18	7	-			
			eL	52.5	23					
			ME	54 15	16		10			
			MN	54 28	18	13				
			MZ	58 36	12			6		
			F	7 20						
64_f	" 19	I	e	7 32.2						
			ME	34 40	18		2½			
			MN	35 25	17	2¼				
			F	7 45						
64_g	" 19 20)	I	e?	23 57.2						
			e	0 03.9	16	2	-			
			eL	8.7	24					
			ME	10 07	20		13			
			MN	10 16	20	22				
			F	1 00						

(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)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
64_h	May 21	I	eP	5 04.5	6					
			e	12.6	10					
			ME	17 10	10		1½			
			MN	19 40	?					
			F	5 45						
64_i	" 21	I	e?	8 55.0						
			e	9 01.6						
			ME	11 35	22		4			
			MN	12 44	20	3				
			F	9 25						
64_j	" 26	III_r	eP	14 29.4	5	1½	¾	1	4450	Az. N.19°.3W.
			iP	29 41	5	-17	+6	+15		
			i	30 42	5	-22	+12	+38		Lat. 4½° N.
			PR_1	31 52	6	13	14	14		Long. 139° E.
			eS	35.6	9	26	17	12		
			iS	35 49	9	-49	+56	-		
			iSR_1	38 43	10	-60	+90	8		
			eL	39.2	35?					
			MZ_1	41 47	12			192		
			ME_1	42 34	12		560			
			MN_1	42 45	12	600				
			M_2	44.0	13	1200	1120	940		
			M_3	46.1	13	1085	1350	1490		
			M_4	48.1	11	750	800	1300		
			M_5	52.1	11	580	635	925		
			M_6	55.5	11	595	515	350		
			C	15 12 40	10	172	62	24		
			F	22 15						
64_k	" 26	I	e	20 48.2	18	2½	-			
			e	21 03.2	35	10	11			
			e	19.2	?					F.lost in N°64_j.
64_l	" 26	I	e	23 59.1						
	27		eL	0 05.2	20					
			ME	9 05	17		7			
			MN	9 22	11	2½				
			F	0 30						
64_m	" 28	I_r	eP	2 50.7	2				2500?	
			e(S?)	54.8	7	-	½			
			M	57.6	7	¾	¾			
			F	3 10						
64_n	" 28	I	e	4 20.1	5	-	¾			
			MN	30 12	19	3				
			ME	32 05	19		6			
			F	4 50						

(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.
				h. m. s.	s.	μ	μ	μ	km.	
64_o	May 28	I	e	9 38.1	5	-	$\frac{3}{4}$			
			e	46.2	7	$\frac{1}{2}$	$\frac{1}{2}$			
			eL	51.7	22					
			ME	52 30	17		39			
			MN	55 18	12	17				
			F	10 30						
64_p	" 28	I	e	18 17.7	?					
			e	33.4	?					
			e	18 38.5	23?					
64_q	" 28	I	e(S?)	19 15.6	11	$\frac{3}{4}$	-			
			e	16.9	11	$1\frac{3}{4}$	-			
			e	19 54.1	22	-	4			
64_r	" 29	II_u	eP_Z	4 57 24	4			1	6700	
			eP_E	57 27	4	-	$\frac{1}{2}$			
				57 40	4	$1\frac{1}{4}$	$2\frac{3}{4}$	5		
			eS	5 05.6	7	$1\frac{1}{4}$	$1\frac{1}{2}$	-		
			i	5 39	7	-11	+4	-		
				6 00	8	9	7	-		
			eL	17.2	35					
			MN_1	21 15	26	308				
			ME_1	23 33	18		91			
			MZ	25 00	18			73		
			ME_2	25 49	18		133			
			MN_2	26 13	18	115				
			C	38 10	14	22	17	-		
			F	7 25						
64_s	" 31	I	e(P?)	9 01.0	5	$\frac{1}{2}$	-			
			e	2.2	6	$1\frac{1}{4}$	$2\frac{1}{2}$			
			eL	5.2	14					
			ME	5 55	13		6			
			MN	6 30	12	9				
			F	9 35						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS :

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

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	(1)	208	7.6	4.8	0.03
	(3)	146	10.0	5.3	0.03
A_E	(1)	198	7.6	4.2	0.03
	(3)	122	11.0	10.5	0.02
A_Z	(2)	77	5.2	4.0	0.04

6

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.	
65	June 3	I	e(P?)	6 52.6	2					
			S	54 52	8?					
			eL	57.6	18					
			ME	58 38	12		5			
			MN	59 09	14	14				
			F	7 30						
66	" 4	I	e	18 02.5	7					
			ME	6 27	14		$2\frac{3}{4}$			
			MN	7 26	17	$4\frac{1}{2}$				
			F	18 30						
67	" 8	I	eL	9 13.9	25					
			ME	17 23	15		$3\frac{1}{2}$			
			MN	22 10	12	2				
			F	9 55						
68	" 18	I	eL	20 36.6	19					
			MN_1	41 25	13	12				
			MZ)	42.5	15		15	10		
			ME_1)							
			MN_2	46 31	14	11				
			ME_2	51 19	14		14			
			F	21 45						
69	" 20	III_r	eP	7 25.3	4				2850	Azimuth(from iP), N.39° E.
			iP	25 25	4	+16	+13	-11		
				26 23	5	31	26			
			iS	29 56	8	+22	-34			Lat. $12\frac{1}{2}°$ S.
			i	30 07	8	-88	+110	+45		
				30 17	8	117	88			Long. $167\frac{1}{2}°$ E.
			eL	31.7	25					
			M_1	33.0	19	634	495			
			MZ_1	33 09	19			348		
			MZ_2	36 37	16			232		
			M_2	36.9	14	210	178			
			ME_3	43 39	10		66			
			MZ_3	46 37	10			37		
			MN_3	47 00	12	150				
			ME_4	47 30	10		73			
			C	8 03 56	10	31	34			
			F	10 00						
70	" 20	II_r	eP	10 29.5	5				2700	
			eS	33.9	7	$3\frac{1}{2}$	2			
			PS	34 29	8	14	11			
			eL	35.7	24					
			M1	38 39	19	30	31			
			MN_2	41 53	12	20				
			ME_2	43 23	10		9			
			F	12 10						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

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

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

6

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
71	June 20 21	II_r	eP	23 39.9	2 5				2400	
			iP	39 58	5	-2	-7			
			PR_1	41 20	6	5	2½			
			eS	43.8	7					
			iS	43 53	7	-16	+16			
			PS	44 18	8	12	24			
			eL	44.8	25					
			MN	47 25	14	106				
			MZ	47 30	13			7		
			ME	49.09	12		44			
			F	1 25						
72	" 21	Ir	eP	8 10 42	4				2800	
				11 18	5	3	1½			
			S	15 12	7	2	2			
			PS	15 41	8	2¾	4			
			eL	18.1	22					
			ME	19 17	15		7			
			MN	20 44	19	13				
			F	9 50						
73	" 22	I_r	eP	16 33.0					2000	
			S	36 22	9	2¼	2			
			eL	37.9	18					
			MN	40 15	11	12				
			ME	45 33	10		5			
			F	18 15						
74	" 23	I	e	4 18.2	3					
			M	22.3	10	2½	2			
			F	4 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				
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.
75	June 25	II_u	iP	19 15 46	4	-¾	+3	+2	6000	Benkoelen (Sumatra)
				16 49	4	1¼	6	5		
			i	17 16	5	-6	+12	+20		
			PR_1	19 10	5	4½	11	8		
			iS	24 23	8	-13	+12	5		
			i	24 29	8	40	87			
			PS	25 01	10	37	47	12		
			SR_1	28 34	12	54	102			
			eL	32.5	30					
			MN_1	33 41	22	533				
			ME_1							
			MN_2	34.6	25	813	464			
			ME_2	35 25	26		420			
			MZ_1	35 36	26			192		
			MN_3	36 29	26		476			
			MN_3							
			ME_4	36 54	26	896	453			
			ME_5	37 29	26		526			
			ME_6	38 43	22		300			
			MZ_2	38 53	22			184		
			MN_4	39 06	22	507				
			ME_7	41 20	20		279			
			MZ_3	41 28	20			112		
			C	48 13	11	26	29			
			F	23 20						
76	" 26	I	eP	3 15.9						
			i	16 06	4	+2	+1¾			
			e	20.5	7	1½	-			
				20 57	8	5	-			
				21 17	9	-	8			
			eL	23.3	18					
			MN	23 47	14	8				
			ME	26 44	12		5			
			F	4 15						
77	" 26	II_r	iP	4 55 39	4	+4½	+4	-4	2970	Azimuth (from iP), N. 43° E.
			PR_1	57 09	5	4	16			
			iS	5 00 20	9	+38	+33			
			PS	045	9	44	54			Lat. 13° S.
			eL	02.4	26					
			MZ	03 00	24			110		Long. 169½° E.
			ME_1	03 17	22		216			
			MN_1	03 37	18	180				
			ME_2	06 31	12		48			
			MN_2	07 52	12	70				F Obscured by No. 78

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS:

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

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

6

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
78	June 26	II_r	eP	5 58.2	4				2500	Azim. N.28½E.
			iP	58 14	4	-11	-6			
			eS	6 02.3	7	1½	1½			Lat. 13½ S.
				3 17	9	19	-			
				3 29	9	-	17			Long. 162½E.
			eL	4.8	22					
			M	9.4	11	20	5			
			F	7 45						
79	" 26	I	eP	12 44.5	4					
			e?	48.9	6					
			i	49 25	6	-3	+3			
			F	13 45						
80	" 28	I_r	eP	11 10.7					2700	
			S	15 00	8	1	½			
			i	15 14	8	-	+2½			
			iPS	15 27	8	+4	-3½			
			i	15 37	8	-	-4			
				16 23	8			2½		
			eL	17.4	18					
			MN	18 02	15	5				
			ME	18 35	15		3½			
			F	12 05						
81	" 29	I	e	4 28.3						
			M	38.2	22	7	11			
			F	4 55						
82	" 29) 30	I	e	23 20.1	7					
			ME	21 12	17		11			
			MN	24.9	13	2½				
			F	0 10						
83	" 30	I	e	8 01.2	5					
			e	8.4	10					
			eL	10.0	18					
			MN	13 40	13	5				
			ME	14 02	15		7			
			F	8 55						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS :

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

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	1	200	7.6	4.8	0.03
	3	128	10.3	5.9	0.02
A_E	1	187	7.6	4.5	0.03
	3	117	11.0	6.8	0.03
A_Z	2	77	5.2	4.2	0.06

7

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.	
84	July 3	I	e	10 2.8						
			ME	5 32	12		1			
			MN	8 15	14	1½				
			F	10 15						
85	" 3	I	e	20 03.3						
			eS	6.6	9	4½	½			
			eL	9.4	18					
				10 17	18	-	21			
			MN_1	12 09	15	8				
			ME_1	12 29	12		21			
			ME2	17 08	14		13			
			MN_2	17 19	14	21				
			ME_3	23 05	10		9			
			MZ	23 13	10			4		
			MN_3	23 20	10	10				
			F	22 00						
86	" 4	I	e	10 25.2						
			eL	32.2	?					
			MN	34 17	10	2				
			ME	34 22	10		2			
			F	10 55						
87	" 4	II	eP	11 13.7						
			i	13 52	3	5	7			
				14 12	3	5	7			
			i	14 54	4	8	4			
			eL	17.6	18					
			ME	19 17	13		61			
			MN	20 07	11	30				
			MZ	25 35	11			5		
			F	12 40						
88	" 4	I	e(P?)	17 57.1						
			iS	18 07 23	7	+7	+1			
				7 29	7	8	1¼			
			iPS	8 31	8	-2¼	+3			
				8 38	8	9	5			
			eL	18.5	20					
			MN	24 06	18	5				
			ME	27 17	14		1½			
			F	19 00						

(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.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
89	July 4) 5	II_r	iP	23 45 35	4	-4¼	+2¼	+5	3500	Azimuth, N. 28° W.
			PE_1	46 50	5	-4	1¼			
			eS	50.8	8					Lat. 5° S.
			iS	50 50	8	-7	+11			
				50 54	8	9	5			Long. 137° E.
			eL	54.1	17					
			MN_1) ME_1	55 31	10	32	28			
			MZ	57 52	10			20		
			MN_2	58 41	10	43				
			ME_2	59 56	10		33			
			F	1 20						
90	" 5	II_r	eP	21 57.9	4				3500	Very probably from same origin as No. 89
			S	22 03 12	7	1½	2			
			eL	6.8	20					
			ME_1	10 46	15		279			
			MN_1	11 16	12	126				
			i	12 00	12			+90		
			ME_2	13 19	12		165			
			MZ_1	13 30	10			56		
			MN_2) MZ_2	14 20	10	89		60		
			F	23 50						
91	" 14	I	eS	3 26.9	8	2½	1½			
			eL	36.7	22					
			MN_1	40 00	13	30				
			ME_1	40 06	13		8			
			MN2	45 36	10	28				
			ME_2	5 56 20	11		9			
92	" 29	I_r	eP	14 20.2	2				2800	Severely felt at Woodlark Island, Lat. 9° S. Long. 152° E.
			S	24 46	9	6	1			
			PS	25 03	9	3	5			
			eL	27.1	21					
			MN_1) ME	30 05	13	6	38			
			MN_2	36 23	9	4				
			MZ	36 34	9			3		
			F	15 20						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS :

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

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
$A_N(1)$	196	7.7	5.1	0.03
$A_E(1)$	181	7.6	5.0	0.03
$A(2)$	80	5.0	3.9	0.06

8

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
93	Aug. 4	I	e	4 22.1						
			eL	28 41	25					
			ME	29 30	21		7			
			MN	30 08	18	7				
			F	5 05						
94	" 4	I	eP	9 04.5						
			e(S?)	8.0	10					
			eL	11.6	30					
			MN	13 08	21	17				
			ME_1	14 14	21		42			
			ME_2	17 06	18		40			
			F	10 40						
95	" 4) 5	I_u	eP	22 54.1	5				10,300	Cashmere ?
			eS	23 05.3	8	1½	1			
			eL	12.5	20					
			MN_1	24 02	20	16				
			ME_1	24 15	20		17			
			ME_2	31 08	22		25			
			MN_2	31 15	22	19				
			MN_3	38 53	18	27				
			ME_3	41 54	18		38			
			C	51 37	17	9	7			
			F	1 05						
96	" 6	II_r	iP	4 16 50	2¾	1½	1½	2¾	3300	
			PR_1	18 33	5	1¾	1½			
			iS	2L 53	7	+40	-11			
			iSR_2	25 09	9	-18	+20	7		
			eL	28.2	?					
			M (N,E)	31.3	9	15	17			
			MZ	33 54	9			3½		
			F	6 40						
97	" 22	I_r	eP	15 08.5	5	-	1		2400	
			eS	12.5	?					
			eL	16.8	27					
			MN	20 17	20	13				
			MZ	21 28	17			16		
			ME	22 00	18		30			
			F	16 40						

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

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

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	1	193	7.8	5.5	0.03
	3	127	9.7	5.5	0.02
A_E	1	178	7.6	5.5	0.02
	3	117	11.0	-	0.03
A_Z	2	82	4.7	3.6	0.06

9

No.	Date.	Char.	Phase.	Time. (Greenwich.) h m s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
98	Sept. 2	I	e	13 34.1	4					
			e	35 39	4					
			i (E)	36 19	5		5			
			i (N)	37 06	6	4				
			eL	36.3	14					
			ME	39 23	10		4			
			MN	39 33	10	3½				
			F	14 05						
99	" 2	I_u	eP	20 27.2	5				6700	
			eS	35.4	?					
			eL	40.8	22					
			M	44.8	15	13	23			
			F	21 30						
100	" 4	I	e	17 12.1						
			eL	30.7	20					
			MN	35 10	11	1¾				
			ME	36 00	13		6			
			F	18 30						
101	" 5) 6	I	e(S?)	23 33.2	12	-	1¼			
			MN	43 28	14	12				
			ME	43 45	13		10			
			F	0 15						
102	" 7	I	eL	21 16.1	14					
			MN_1	19 09	10	1½				
			MN_2	25 08	10	1½				
			ME	25 36	10		1½			
			F	21 40						
103	" 7	I_r	iP	21 59 14	4	-6	-10		2300	Azim. N.59° E.
			eS	22 03 02	6					
			i	3 07	6	7	10			Lat. 22° S.
			eL	6.1	13					
			MN	9 15	10	2				Long. 170° E.
			ME	10 08	9		6			
			F	22 40						
104	" 9	I	e	14 48.8	5					
			e	52.5	8					
			ME	57 07	13		3			
			MN	58.30	12	3				
			F	15 15						
105	" 11	I_u	e(S?)	12 15.9	?				13,000	Arequipa
			e(L?)	41.9	30					(Peru)
			ME	44 00	25		6			
			MN	44 11	25	5				
			F	13 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				

9

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
106	Sept. 12	I	eP	14 35.5	5					
			i	35 50	5	-	+5			
			e(S?)	39.6	9	1	-			
			eL	42.4	18					
			MN	45 38	14	15				
			ME	45 48	14		8			
			F	15 40						
107	" 13	II_r	iP	17 16 30	4	+3	+1		1900	
				16 50	5	6	2			
			eS	19 43	6					
			iS(E)	19 46	6		+5			
			iS(N)	19 49	6	-5				
				19 54	6	19	17			
			eL	20.7	18					
			M_1	21 24	14	24	24			
			ME_2	25 19	10		30			
			MN_2	28 18	10	20				
			F	18 25						
108	" 14, 15	II	e(S?)	23 55.0	?					
			eL	58.1	22					
			ME_1	0 02 04	15		38			
			MN_1	2 41	15	39				
			MN_2	4 34	13	53				
			ME_2 MZ	4 39	14		80	22		
			F	1 05						
109	" 17	I	e	15 41.4	7	3	½			
			e	44.7	8	2½	3½			
				44 51	8	5	3			
			eL?	49.0	25					
			ME	51 53	23		10			
			MN	54 00	18	2½				
			F	16 05						
L10	" 20	I	e	8 44 28	5	1¼				
			MN	48 55	9	5				
			ME	49 22	9		7			
			F	9 00						
111	" 29	I_r	eP	18 55.1					3800	
			eS	19 00.7	8	4	1½			
			PS	1 03	8	5	6			
			eL	3.6	18					
			ME	5 10	13		21			
			MN	7 05	13	10				
			F	19 55						

E. F. Pigott S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS:

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

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	188	8.0	5.8	0.03
(3)	127	9.5	5.2	0.03
A_E (1)	170	7.6	6.0	0.02
(3)	118	11.0	>20	0.04
A_Z (2)	84	4.5	3.3	0.06

10

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.	
112	Oct. 2	I	e	3 08.9						Amplitudes too small for accurate measurement,
			e	16.7	8					
			F	3 35						
113	" 3	I_u	eB	17 40 54	5	-7	+12	+6	16,300	
			eS	55.1	10	¾	3½			Azim. (computed from iP), S.60°E.
			i	57 09	10	3	-			
			eL	18 24.1	35					
			ME_1	34 09	26		19			Felt in Martinique (West Indies),
			MN_1	34 33	26	11				
			ME_2	52 26	22		9			
			MN_2	52 35	22	11				
			MN_3	19 08 42	20	9				iP, computed time, 17h 40·2m (Ottawa, La Paz, Cartuja).
			ME_3	9 00	20		7			
			F	20 20						
114	" 3 4)	I_u e	(PR_1)	22 28.8	6	-	½		15,000	P waves unusually distinct.
			i	29 08	6	-2	+5			
			eL	59.7	26					Destructive earthquake in Asia Minor.
				23 09 38	28	13	7			
			ME_1	16 12	26		25			
			MN_1	18 08	22	18				
			MN_2	23 34	18		17			
			MZ	25 19	18			36		S waves absent. (Cf. Δ)
			ME_2	25 52	18		61			
			F	0 50						
	Oct. 5	to 9,	see next sheet.							
115	" 13	I_r	eP	9 08.4					2800	
			iS	12 55	8	-3	-			
			eL	15.9	15					
			MN_1	19 53	10	2				
			ME	21.0	10		?			
			MN_2	23 51	13	3½				
			F	10 00						
116	" 14	II_r	eP	3 04.0	5	½	-		4000	
			eS	9.8	8	2	-			
			eL	14.4	?					
			MN_1 ME_1)	17 34	10	17	19			

(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				

10

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
			MN_2	3 20 02	11	26				
			ME_2	21 24	11		11			
			MN_3	21 30	10	28				
			MZ	21 43	10			10		
			F	4 20						
117	Oct. 21	II_r	eP	15 39.9	5	2¼	-		2300	
			iP	40 06	5	-9				
			iS	43 45	8	+12				
			iPS	44 03	8	+20				EW. component of
			eL	44.5	33	(Angenheister)				No. 1 deranged.
			MN_1	45 13	22	133				
			MN_2	45 57	20	139				
			MN_3	48 15	11	68				
			MN_4	50 15	9	34				
			MN5	52 08	8	26				
			F	17 45						
118	" 23	II_r	eP	6 27.1	5				4700	
			i	27 33	5	+4½	-3			
			iS	33 31	8	+ 6	-			
				34 30	10	18	12			
			eL	36.6	14					
			MN_1	37 36	12	80				
			ME_1	37 41	12		51			
			ME_2	44 24	15		76			
			MN_2	45 03	15	45				
			MN_3)							
			ME_3)	47 36	13	60	67			
			F	8 30						
119	" 28	II_r	iP	0 21 30	4½	-10	+25	-15	2660	East of North
				21 55	5	13	26	21		Island, New
			iS	25 48	8	-15	-28			Zealand.
			PS	26 21	9	30	38			
				26 33	10	77	36			Az. (from iP)
			eL	27.5	30					S. 68° E.
			ME_1	28 10	20		155			
			MZ	28 46	19			60		Lat. 39° S.
			MN_1	28 53	14	57				
			MN_2	31 24	12	43				Long. 180°
			ME_2	31 43	12		27			
			C	43 00	11	9	16			
			F	1 25						

N.B. During my absence, from Oct. 5, 23h 52m to Oct. 9, 0h 1m, no registration, owing to illness of one Assistant, and departure of another for the war.

E. F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

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

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

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	1	183	8.2	6.0	0.03
	3	126	9.3	5.0	0.03
A_E	1	164	7.7	6.5	0.02
	3	118	11.0	>20	0.04
A_Z	2	87	4.2	3.0	0.06

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.	
120	Nov. 5	I	e	15 24.4						
			ME	35 00	15		2			
			MN	36 32	15	1½				
			F	15 55						
121	" 6	I_r	eP	1 56.5					2600?	
			e(S?)	2 00.7						
			eL	2.8						
			ME	6 00	12		7			
			MN	7 32	13	2½				
			F	2 35						
122	" 7	II_r	eP	6 43.0	5	¾	-		3500	
			eS	48.3	7	1¼	4			
			eL	50.4						
			ME	55 46	12		38			
			MN	55 55	12	51				
			F	7 50						
123	" 8	I_r	eP	11 27.3					2500	
			PS	31 30	11	9	4½			
			eL	33.6	17					
			MN	35 57	13	12				
			ME	36 11	13		16			F.lost in No.124
124	" 8	II_r	eP	12 00.2	6	¾	1		2700	
			iS	04 29	10	-6	+4			
			PS	04 50	11	13	4½			
			eL	7.7	18					
			MN	9 17	13	30				
			ME_1	9 30	13		37			
			ME_2	11 09	9		26			
			F	14 05						
125	" 8	I_r	eP	20 09.5	5				2800	
			S	14 03	9	1¼	2			
			PS	14 22	9	6	1½			
			eL	17.3	17					
			M	18 52	14	10	11			
			F	21 20						
126	" 10	I	eL	5 48.6	22					
			MN_1	52 16	10	1½				
			ME_1	54 11	11		2½			
			MN_2	6 07 57	11	2				
			ME_2	09 02	11		1¼			F lost in No.127

(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.
				h. m. s.	s.	μ	μ	μ	km.	
127	Nov. 10	II_r	eP	6 37.6	4	-	1		1550?	
			e(S?)	40 19	6	¾	2½			
			eL	42.0	13					
			MN_1	42 45	12	45				
			MN_2	45 53	13	136				
			ME_1	46 16	13		33			
			MN_3	47 55	12	140				
			ME_2	48 04	12		73			
			C	55 20	11	17	16			
			F	8 55						
	" 17			Large microseisms all day, masking any faint seismic motion possibly present.						
128	" 18	I	e?	10 18.5						
			eL	35.7	22					
			MN_1	38 30	20	6				
			ME1	39 47	17		8			
			MN_2	48 50	15	3¼				
			ME_2	50 40	15		4			
			F	11 40						
129	" 21	I	e(L?)	15 08.0	17					Chronograph deranged for some hours: time correct to ½m only } N.° 129
			ME	15.5	17		5½			
			MN	19.0	12	3				
130	" 22	II_r	iP	8 18 54	4	+4¼	-7¾	+2		
			iPR_1	19 51	5	-13	-33	-4		
			e	20.2	5					
					16				2200	Felt strongly in North Island New Zealand (up to F.M. VI or VII)
			iS	22 33	7	-35	3½	-5		
			eL	22.9	21	(Angenheister)				
			SR_1	23 54	8	+53	-			
			ME_1	24 05	9		27			
			MN_1	24 26	9	47				
			ME_2	24 56	9		21			Az. (from iP) S.70°E.
			ME_3	28 19	10		21			
			MN_2 / MZ	28 28	10	32		5½		Lat. 38°S. Long. 174½°E.
			F	9 40						
131	" 24	I	e(P?)	7 45.1						
			e(S?)	49.5	9	1¾	-			No. 130 & 131:- N.& E. from Seismom. No. 3.
			eL	53.8	14					
			MN	8 00 56	10	6				
			ME	2 43	10		3¼			
			F	8 15						

(Continued on next sheet)

No. 11 (continued) November 1 to 30, 1914
12 December 1 " 31

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.)

December constants

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	138	7.8	6.8	0.01
A_E (3)	126	9.3	5.0	0.03
A_E (1)	148	7.3	5.3	0.02
A_Z (3)	118	11.0	>20	0.04
A_Z (2)	87	4.2	3.0	0.06

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.	
132	Nov.24	III_u	eP	12 02.9	4				5700	North of Guam,
			iP	3 00	4	+18	-	-7		Ladrone Islands
			iPR_2	6 38	5	-12	$-2\frac{1}{2}$	2		
			i	7 25	6	-	9	19	.....	(See note,A)
			eS	10.2	9					
			iS	10 21	9	-294	+78	-70		
				10 30	9	87	-	198		
			i	12 06	9	+59	-73	-	.....	(See note,B)
			eL	16.4	50	(Angenheister)				
			MZ_1	18 24	22			155		Note: The 2
			ME_1	19 09	30		820			impetus indic-
			MN_1	20 10	20	277				ated by A,B,
			ME_2	21 12	16		270			are probably
			MN_2 / ME_3	22 45	16	200	232			the P & S of
			MZ_2	22 54	16			96		an overlapping
			C	28 44	10	15	16			earthquake,
			F	13 50						(Δ = 2970 km)
133	Dec.15	I	e(P?)	9 03.8	5	-	3			
			eL	12.8	18					
			MN	13 50	13	14				
			ME	14 54	14		22			
			MZ	15 08	14			12		
			F	10 20						
134	" 20	II_r	eP	14 16.0					3900	Tonga Group.
			iPR_1	17 46	$5\frac{1}{2}$	$+5\frac{1}{4}$	+17			
			S	21 41	10	7	6			
			PS	22 16	10	12	16			Azim.(from PR_1)
			eL	24.6	18					N.73°E.
			M1	25 06	18	290	65			Lat. $18\frac{1}{2}$° S.
			MN_2	27 50	12	80				Long. 173° W.
			ME_2	29 32	14		77			
			MZ	32 50	14			18		
			F	16 40						

E. F. Pigot Esq.