

No. 1

(COPY)

192 1918, January

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ 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	e: 1	$\frac{r}{T_0^2}$
A ₁ (1)	1.9	7.7	6.0	0.02
A ₁ (2)	1.30	9.9	4.3	0.02
A ₁ (1)	1.46	7.3	5.1	0.02
A ₁ (3)	1.70	9.7	6.0	0.04
A ₁ (2)	92	5.0		0.06

No.	Date.	Phase.	Time (Greenwich)			Per.	Amplitude			Δ	Remarks.
			h.	m.	s.		A _N	A _E	A _Z		
			h.	m.	s.	s.	μ	μ	μ	km.	
1	1918										
1	Jan. 4	iP	15	54	53	3				3000	
		iS		59	36	6	-	-2			
		PS	16	00	01	7	2	1			
		eL		03.4		16					
		LN		04	50	17	15				
		ME		05	00	15		32			
		MZ		12	43	12			3		
		F		17	35						
2	" 11	e	12	41.8							
		e		47.1							
		M		53.3		11	1	$\frac{1}{2}$			
		F		13	10						
3	" 12	e(P?)	19	45.8							
		e		47.5		4		2			
		i		49 01		4	-	-2			
				49 07		4	$\frac{1}{2}$	$7\frac{1}{2}$			
				49 49		5		6			
		e		53.6		7		$1\frac{1}{2}$			
		eL		55.8		18					
		LN		57 01		16	16				
		ME	20	03 35		10		2			
		F	20	30							
4	" 13	e	8	08.7		5	-	$\frac{1}{4}$			
		e		14.3		7					
		eL		16.8		18					
		LN		20 14		12	4				
		ME		20 23		12		3			
		F		8 50							
5	" 15	e	15	53.0							
		LN	16	06 19		18	1				
		ME		07 31		16		$1\frac{1}{2}$			
		F	16	20							
6	" 16	e	2	45.9		7	-	$\frac{1}{2}$			
		eL		52.3		18					
		ME		57 47		14		2			
		LN		58 57		12	2				
		F	3	25							

(Continued on next sheet)

(COPY)

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 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ 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				
A_E	(See last sheet)			
A_Z				

No.	Date.	Phase	Time (Greenwich)			Per.	Amplitude			Δ km.	Remarks.
			h.	m.	s.		A_N μ	A_E μ	A_Z μ		
7	1918 Jan. 18	iP	10	46	28	3	-3	-6		Perhaps double	
		eL		49.3		11					
		i		49		44	6	-	-4		
		M_1		49	53	8	$1\frac{1}{2}$				
		ME_2		55	16	8	2				
		MN_2		55	36	8	$1\frac{1}{2}$				
8	" 21	F ²	11	45						3500	
		iP	19	52	41	3	$\frac{1}{2}$	$\frac{1}{2}$	-1		
		eS		58.0		8	$\frac{1}{4}$	$\frac{1}{2}$			
		PS		58	41	8	$\frac{1}{2}$	2			
		eL	20	03.6		20?					
		i		05	48	3	+12	+25	-2		
		MN_1		06	43	15	44				
		ME_1		07	46	12		27			
9	" 22	M_2		09.7		11	30	27	14	Probably a second iP	
		F	21	25							
		e	1	40.9							
		e		45.5							
		eL		51.9		20					
		M		54.9		14	4	4			
		F	2	35							
		e	14	59.6		4	-	$\frac{1}{2}$			
		e(S?)	15	05	32	6	$\frac{1}{4}$	$\frac{1}{2}$			
		10	" 24	eL		09.6		12			
MN_1				13	11	11	5				
ME_1				13	47	13		9			
MZ				14	00	14			4		
MN_2				20	19	11	5				
ME_2				21	42	12		4			
F	16			45							

(Continued on next sheet)

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	V	T ₀	e: l	$\frac{r}{T_0^2}$
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Phase	Time (Greenwich)				Amplitude			Δ km.	Remarks.
			h.	m.	s.	Per.	A _N μ	A _E μ	A _Z μ		
11	1918 Jan. 24	eL	23	57.4	?						
	25	M		59 49	16	-	1½				
		F		00 05							
12	" 25	eL	2	26.5	16						
		M		32 24	13	-	1				
		F		3 05							
13	" 25	eL	15	47.8						A few long waves.	
14	" 25	eL	22	03.5	14						
		MN		05 06	12	1½					
		ME		13 56	12		1½				
		F		22 35							
15	" 26	eP	3	40.6					3100?		
		e(S?)		45.4	8	½	½				
		eL		47.9	14						
		ME		50 52	12		3				
		MN		51 24	11	2½					
		F		4 50							
16	" 30	iP	21	30 10	4	-2½	-	+5	0250	Northern Japan	
		iS		39 42	8	-15	-16				
		i		42 02	10	+10	+33				
		eL		51.8	22						
		ME ₁		54 30	16		31				
		MN ₁		55 19	16	13					
		ME ₂		57 24	15		25				
		MN ₂		59 22	14	10					
		ME ₃	22	01 12	14		19				
		MN ₃		03 07	14	12					
		F		23 50							

E. F. Pigot 5.

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	V	T_0	$\epsilon : 1$	$\frac{r}{T^2}$
$A_N^{(1)}$	150	7.8	5.8	0.02
$A_N^{(3)}$	121	10.0	4.1	0.02
$A_E^{(1)}$	154	7.0	3.4	0.02
$A_E^{(3)}$	141	8.8	8.0	0.06
$A_Z^{(2)}$	68	5.1	4.1	0.07

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A_N μ	A_E μ	A_Z μ		
17	1918 Feb. 2	I	e LN ME F	9	46.5							
							14					
				10	03	17	12		$\frac{1}{2}$			
18	" 3	I_r	eP e(S?) eL M ₁ MZ ME ₂ F	14	09.6		4				2500?	
							7	$\frac{1}{2}$	$\frac{1}{2}$			
							14					
							14	32	22			
							15			9		
							12		13			
19	" 6	I	e eL MN ME F	15	45							
				3	24.1		10	1				
							18					
							13	7				
							14		9			
20	" 6	I	e? e(L?) ME MN F	15	20							
				14	51.3							
				15	01.6		22					
							20		5			
							12	3				
21	" 7	IIu	iP i iS PS e(SR ₁ ?) i eL ME ₁ MZ LN ₁ LN ₂ LN ₂ C F	15	20							
				5	28	39	3	-2	+1	-1	6640	Azim. 146° (N.34°W.)
							4	+9-	-5	-9		
							7	-12	-9			
							7	13	4			ϕ , 19°N.
							9	18	7 $\frac{1}{2}$			λ , 121°E.
							11	6	1			(approx.)
							11	+36	+42			
							11	19	49			
							25					
							16		64			
							18			20		
							18	68				
							17		115			
							16	49				
							12	7	13			
22	" 12	I	eL	7	30							
				3	27.9		22					A few long waves.
23	" 13	I	iP e(S?) eL MN ME MZ F	3	46	21	5	-6	-5 $\frac{1}{2}$		3500?	
							8	$\frac{1}{2}$	1			
							20					
				4	01	38	16	24				
							18		38			
							18			14		
				4	10							

(Continued on next sheet)

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	V	T ₀	ε : 1	$\frac{r}{T_0^2}$
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.	
				h.	m.	s.		A _N	A _E	A _Z			
24	1918 Feb. 13	I _u	eP	6	18	33	4	-	1		6600	Amoy (China)	
			iS		26	43	8	-	6				
			i		26	55	8	-7½	6				
			PS		27	20	8	3	6				
			eL		33.6		30						
			M ₁		34.5		28	88	120				
			MN ₂		39 03		24	43					
			ME ₂		39 36		24		110				
25	" 13	I	F	9	30								
			i	22	08	23	5	3	-5				
			eL		21.2		22						
			ME		22 33		19		26				
			MN		23 30		13	8					
26	" 15	I	MZ	23	35		13		3½				
			F	23	10								
			e	9	20.0		?						
			ME		22 49		11		1				
27	" 19	I _r	LN	23	50		12	1½		2170			
			F	9	40								
			eP	14	19	21	4	3	½				
28	" 19	II _r	iS		22	59	6	+1	-2½				
			eL		23	07	6	-	3				
			MN		25 24		12	1½					
			ME		26 28		10		1				
			F	14	40								
			iP	16	24	37	4	+1	+2	1			2400
			iPR ₁		25	44	6	+7	-4				
			eS		28	35	7	7	2				
			i		28	43	7	+49	+28	1½			
			PS		30	00	7	21	11				
			eL		31.2		20						
			MN ₁		31 46		15	88					
			MZ		32 24		15			27			
			MN ₂		33 09		15	70					
ME ₁		35 27		15		90							
LN ₃		37 10		12	34								
ME ₂		39 52		12		29							
MN ₄		42 21		10	16								
ME ₃		46 27		12		23							
F	18	30											

(Continued on next sheet)

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	V	T ₀	ε : 1	$\frac{r}{T_0^2}$
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
							s.	μ	μ	μ	km.	
29	1918 Feb. 19	I	eP	21	13.4						2300?	
			e(S?)		17.2							
			eL		18.8	14						
			MN	20	22	12	4					
			ME	20	27	12		3				
			F	21	55							
30	" 20	I	eP	3	50.2	4	$\frac{1}{2}$	2				
				50	28	4	$\frac{1}{2}$	2 $\frac{1}{2}$				
			e	51	1							
				51	23	8	$\frac{1}{2}$	2				
			MN	53	03	9	1					
			ME	53	19	8		1 $\frac{1}{2}$				
			F	4	06							
31	" 20	I	e	15	41.1							
			eL		45 32	16						
			MN		47 19	14	2					
			ME		50 01	16		3				
			F	16	10							
32	" 20	I	e	22	28.2							
			e		30.6	5	-	$\frac{1}{2}$				
			eL		37.3	17						
			MN		39 05	14	4					
			ME		41 27	16		6				
			F	23	20							
33	" 21	I	eL	11	58.8	17					A few long waves.	
34	" 21	I	e	15	57.5							
			eL	16	05.8	15						
			MN		08 45	12	1					
			ME		09 37	14		2				
			F	16	50							
35	" 22	I	e	20	14.1	3	-	1				
			eL		20.4	12						
			ME		21 43	10		1				
			MN		24 15	12	1					
			F	20	35							
36	" 23	I	e?	18	07.7							
			e		15.2	4	$\frac{1}{2}$	-				
			eL		19.9	14						
			MN		20 31	12	2					
			ME		24 06	15		3				
			F	19	00							

(Continued on next sheet)

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	V	T ₀	ε : 1	r T ₀ ²
A _N				
A _E				
A _Z	(See last sheet)			

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
								μ	μ	μ		
37	1916 Feb. 23	I	e	20	39.5							
			e		45.5							
			eL		49.5	15						
			ME		52 16	12			3			
			MN		52 28	12	1½					
38	" 24	I	F	21	20							
			e	15	27 35							
			eL		32.4	?						
			MN		34 01	16	3					
			ME		35 03	14			2			
39	" 25	I	F	16	05							
			e	6	10.5							
			e		16.2	7	½		-			
			eL		18.0	18						
			MN ₁		19 07	14	4					
			ME ₁		20 28	16			9			
			MN ₂		23 24	11	2½					
			ME ₂		24 37	15			5			
39a	" 26	I _r	F	7	30							
			eP	10	25 03	4	1		-	2300		
			S		28 57	7	1		½			
			PS		29 15	7	5		3½			
			eL		31.0	16						
			MN ₁		31 45	15	5					
			ME ₁		33 08	10			2			
			MN ₂		37 32	12	3					
			ME ₂		38 35	12			4½			
			F	11	35							
40	" 27	I _r	eP	3	17 17	3	½		1	2400		
			iS		21 12	6	+7		+2			
			PS		21 30	6	3½		2			
			eL		23.4	16						
			MN ₁		24 13	13	8					
			ME ₁		25 23	13			5½			
			ME ₂		33 21	10			5			
			MN ₂		33 41	10	5					
			F	4	45							
41	" 27	I	e?	15	23.5							
			M		31.7	8	1½		2			
			F	15	45							

E. F. Pigot 87.

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	V	T_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
$A_{(1)}$	148	7.6	4.8	0.02
(3)	133	10.0	4.8	0.02
$A_{(1)}$	150	7.1	3.3	0.02
(3)	138	9.3	8.0	0.05
$A_{(2)}$	88	5.1	4.0	0.05

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A_N	A_E	A_Z		
42	1918 Mar. 2	I	e?	2	50	.1						
			eL			54.4	16					
			MN	3	01	23	11	1				
			ME			02 28	12		$1\frac{1}{2}$			
			F	3	05							
43	" 6	I	eL	6	06	.0	20					
			MN			06 56	16	$2\frac{1}{2}$				
			ME			07 09	15		$2\frac{1}{2}$			
			F	6	30							
44	" 10	I_r	iP	14	21	42	4	$-\frac{1}{2}$	$-6\frac{1}{2}$		2400	
						21 46	4	2	11			
						22 27	5	-	5			
			iS			25 39	6	$-\frac{1}{2}$	-5			
						25 55	6	3	$2\frac{1}{2}$			
			eL			26.3	14					
			M			26.9	11	10	6			
			F	15	15							
45	" 11	I	e?	6	21	.4						
			eL			28.2	14					
			MN			29 06	11	1				
			ME			32 34	12		1			
			F	6	40							
46	" 14	I_r	eP	9	36	21	4	-	2		4200	
			e(S?)			42.3	7	-	$\frac{1}{2}$			
			eL			49.7	14					
			MN			50 43	12	1				
			ME			53 40	15		$2\frac{1}{2}$			
			F	10	10							
47	" 17	I	e	14	07	.4	5					
			eL			14.2	14					
			MN			15 09	12	3				
			ME			16 52	14		2			
			F	14	30							
48	" 17	I	eL	15	01	.3	14					
			MN			02 42	12	1				
			ME			04 08	12		1			
			F	15	10							
49	" 17	I	e	15	36	.5						
			M			39 27	12	3	$1\frac{1}{2}$			
			F	15	45							

(Continued on next sheet)

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T ₀	ε : 1	r T ₀ ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)				Amplitude.			Δ	Remarks.
				h.	m.	s.	s.	A _N μ	A _E μ	A _Z μ		
50	1918 Mar. 19	I _r	eP	6	00	53	6	5½	-	-	2640	
			iS		01	03	6	2	1½	-		
			PS		05	09	7	+2	-2½	-		
			eL		05	31	8	10	8	-		
			MN ₁		08.5		16					
			ME ₁		09	15	13	17				
			ME ₂		09	55	12		16			
			MZ		11	50	12		13			
			MN ₂		12	35	13			7		
			F		12	48	11	16				
51	" 20	I _r	eP	7	40						2950	
			eS	1	16	37	5	½	½			
			PS		21	16	7	2	1½			
			eL		21	35	7	4	5			
			LN ₁		24	09	14					
			ME ₁		28	25	11	14				
			ME ₂		29	53	9		11			
			MN ₂		34	33	8		13			
			MZ		35	21	9	8				
F		36	06	9			3					
52	" 21	I	e	2	55					2520		
			ME	6	13.4	7	½	½				
			LN		18	21	10		2			
			F		19	23	9	2				
53	" 21	I _r	iP	6	35					2520		
			iS	15	55	49	4	-	-2			
					59	56	7	+4	+5			
			eL	16	00	01	7	11	9			
			MN		01.8		18					
			ME		04	25	11	5				
			F		04	47	12		9			
53a	" 22	I	iPP	16	25					2520		
			e?	11	13	39						
54	" 24	I _r	e?		16.7	6	½	-		2520	(Cf. No. 53)	
			iP		39.4	2						
			PR ₂	5	13	54	4	-	+2			-2
			iS		15	30	4	½	3			1
			PS		18	01	5	-4½	+8			-1
			eL		18	15	5	½	3			
			i		20.9	9						
			ME		21	17	7	-	+9			
			LN		21	25	7	5				
i		21	56	8	3							
F		23	32	5	-	+8						
		5	55									

(Continued on next sheet)

No. 3 (continued)

1918, March.

19

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

 $\phi = 33^{\circ} 49' 49''$ S. $\lambda = 151^{\circ} 9' 30''$ E. $h = 41.9$ m. Foundation: Triassic sandstone.

INSTRUMENTS:

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

	V	T ₀	ε : 1	$\frac{r}{T_0^2}$
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
55	1918 Mar. 24	I	eL	14	45	.1	12					
			ME		46	03	11		1			
			MN		46	53	10	$\frac{1}{2}$				
			F	14	55							
56	" 24	I	eL	22	23	.8	14					
			MN		25	54	12	1				
			ME		34	38	14		2			
			F	22	50							
57	" 27	I	e	8	40	.3						
			eL		45	.0	12					
			MN		45	20	10	1				
			ME		45	46	10		2			
			F	9	00							
58	" 27 28	I _r	iP	23	16	08	2	-	+2	2	2400	
					16	19	2	$\frac{1}{2}$	8			
			PR1	17	25	6	6	$\frac{1}{2}$	3$\frac{1}{2}$			
			PR1	17	25		6	$\frac{1}{2}$	3 $\frac{1}{2}$			
			iS	20	08		6	+6	-8	1		
			PS	20	18		6	6	9	4		
			eL	21	.7		20					
			ME	22	36		16		23			
			MN	23	25		14	12				
			MZ	24	29		15			9		
			F	00	30							
59	" 28	I _v	iP	17	04	17	1	+ $\frac{1}{2}$	$\frac{1}{2}$		720?	Extremely short wave-lengths.
			i(S?)	05	36		2	$\frac{1}{2}$	-1			
			MN	06	19		8	1				
			ME	07	15		8		1			
			F	17	13							(S. Queensland?)

S. F. Pigot

Riverview College Observatory, SYDNEY, N.S.W.

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_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
A_1 (1)	148	7.6	4.7	0.02
A_1 (3)	149	9.6	4.4	0.02
A_2 (1)	150	7.1	3.1	0.02
A_2 (3)	134	9.3	11.0	0.06
A_2 (2)	82	5.0	4.0	0.07

N.B. NS & EW data always from Seismometer No.1, unless otherwise stated.

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A_N	A_E	A_Z		
								μ	μ	μ		
60	1918 Apr. 4	I	e MN ME F	1	10.3	5	$\frac{1}{2}$ $\frac{1}{2}$					Short wave-lengths.
61	" 10	I_u	iP iS SR ₁ eL ME MN F	2	15.01	3	$-1\frac{1}{2}$ -2 5 1		+2 1	7900		
62	" 10	I	e MN ME F	5	28.0	9	$\frac{1}{2}$		1			
63	" 10	I_r	eP eS eL ME MN F	15	21.7	5	$-\frac{1}{2}$ $\frac{1}{2}$		$\frac{1}{2}$ 1		2400	
64	" 10	I	e eL ME MN F	16	10	17						
			e eL ME MN		25.2	7	1		-			
			eL ME MN		30.3	14			3			
			ME MN F		31.39	12						
			ME MN F		33.52	15	4					
65	" 13	I_u	e(P?) eS eL MN ₁ MN ₂ ME ₁ MN ₃ ME ₂ MZ ME ₃ F	1	03.2	6	$\frac{1}{4}$ $\frac{1}{2}$		$\frac{1}{4}$ 1		5900?	
			eS eL MN ₁ MN ₂ ME ₁ MN ₃ ME ₂ MZ ME ₃ F		10.7	8						
			eL MN ₁ MN ₂ ME ₁ MN ₃ ME ₂ MZ ME ₃ F		18.1	35						
			MN ₁ MN ₂ ME ₁ MN ₃ ME ₂ MZ ME ₃ F		22.24	20	46					
			MN ₁ MN ₂ ME ₁ MN ₃ ME ₂ MZ ME ₃ F		23.44	14	25					
			ME ₁ MN ₃ ME ₂ MZ ME ₃ F		24.56	12			8			
			ME ₁ MN ₃ ME ₂ MZ ME ₃ F		26.15	12	28					
			ME ₁ MN ₃ ME ₂ MZ ME ₃ F		26.41	12			11			
			ME ₁ MN ₃ ME ₂ MZ ME ₃ F		27.37	14				$4\frac{1}{2}$		
			ME ₁ MN ₃ ME ₂ MZ ME ₃ F		30.27	12			8			
			ME ₁ MN ₃ ME ₂ MZ ME ₃ F		3 15							

(Continued on next sheet)

Riverview College Observatory, SYDNEY, N.S.W.

Seismological Bulletin.

 $\phi = 33^{\circ} 49' 49'' \text{ S.}$
 $\lambda = 151^{\circ} 9' 30'' \text{ E.}$
 $h = 41.9 \text{ m.}$

Foundation: Triassic sandstone.

INSTRUMENTS:

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

	V	T_0	$\epsilon : 1$
A_N			
A_E			
A_Z			

(See last sheet)

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A_N μ	A_E μ	A_Z μ		
66	1918 Apr. 15	I _r	eP	18	43	.6	3				2500	
			iS	47	43		7	-16	+4			
				47	50		7	13	9			
			eL	50	.2		16					
			M1	53	12		11	10	10			
			ME ₂	56	31		10		3			
			ME ₃	59	14		10		4			
			MN ₂	19	00	16	10	6				
			MN ₃	02	09		10	6				
			F	20	00							
67	" 21	I	e?	22	46	.9	?				12,200 San Jacinto (California)	
			eS	59	.2		14	2	-			
			PS	23	00	56	14	-	3			
			eSR ₁	06	.9		16	2	-			
				08	36		16	1	4			
			eL	23	.2		35					
			ME ₁	24	44		25		16			
			MN ₁	27	45		18	3				
			ME ₂	29	54		17		10			
			MN ₂	31	53		16	39				
68	" 23	I	Lrep1 waves (or W ₂)	e	0	47	.3	20	4	5		Analysis from Seismometer No.3 (click on No.1 out of order for some hours).
			F	2	15							
			eL	15	40	.6	8	1				
			eL	48	21		16					
69	" 25	I	MN	52	16		14	3				
			ME	52	55		14		3			
			F	16	35							
			e	8	39	.7	4					
70	" 25	I	eL	46	.7		15					
			MN	48	19		12	1				
			ME	50	37		12		1			
			F	9	10							
71	" 25	I	e	17	24	.2	14				A few long waves.	
			e(S?)	22	56	.2	9	1				
			eL	23	04	.9	16					
			ME	06	00		12		3			
			MN	06	42		12	3				
			F	23	50							

E. F. Pigot

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 ₀	ε : 1	r T ₀ ²
A ₁ ⁽¹⁾	146	7.5	4.5	0.02
A ₃ ⁽³⁾	131	9.9	4.8	0.02
A ₁ ⁽¹⁾	150	7.0	3.0	0.02
A ₃ ⁽³⁾	125	9.5	8.0	0.05
A ₂ ⁽²⁾	83	4.9	3.7	0.09

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

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.				
				h.	m.	s.		A _N	A _E	A _Z						
72	1918 May 2	I	e(S?)	0	08.3	12	μ	μ ₁	μ	km.						
			eL		16.7	24										
			MN		21 36	12	3									
			ME		23 05	12		1½								
73	" 2	I	F	0	35											
			e?	10	26.2	?		½								
			e		38.5	6										
74	" 4	I	M		55 53	?										
			F	11	20											
			SR ₁ ?	6	25.2	?										
75	" 11	I	e		30.5	15	5	-		1500?	Well marked microseisms, (T.=8s.) all day obscuring F.					
			eL		37.3	20										
			MN		43 01	18	5									
			ME		43 37	16		6								
			e?	21	38.4											
76	" 14	I	e		45.3	8	½									
			eL		55.8	16										
			ME	22	03 31	18		8								
			MN		07 36	15	5									
			F	22	35											
			eP	19	18.3	4	-	1								
			e(S?)		20.9	5		1								
77	" 18	I	ME		23 42	10		1½								
			MN		24 06	10	2									
			F	19	35											
			e?	3	02.9											
			eL		06.6	12										
			M		07 51	10	1	2								
			F	3	20											
			78	" 20	I _u	e	14	53.5	?						16000?	
						eS	15	08.2	10			1	2			
						e		19.1	16							
								19 28	16				18			
								20 23	20			18				
								20 48	20			18				
eL		39.0				40										
ME ₁		42 01				30		48								
MN ₁		42 57				28	37									
ME ₂		52 47				24		15								
78	" 20	I _u	MN ₂		53 54	24	26									
			MZ		58 41	18			7							
			M ₃		59.3	16	25	33								
			M ₄	16	03.1	16	14	30								
			M ₅		06.5	15	12	13								
			H ₆		11 02	14	8	11								
			C		27.8	15	12	5								
F	17	35														

(Continued on next sheet)

Riverview College Observatory, SYDNEY, N.S.W.

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 ₀	ε : 1	r T ₀ ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A _N μ	A _E μ	A _Z μ		
79	1918 May 20	II _r	eP	18	10	03	4	1			3300	
			eS		15.1		8	2½	2			
			eL		17.9		35					
			M ₁		20.7		20	90	335			
			ME ₂		22 41		16		225			
			MZ		24 37		16			120		
			ME ₃		24 42		16		480			
			MZ ₂		25 55		12			90		
			MN ₂		26 16		12	155				
			ME ₄		26 57		14		250			
			MN ₃		28 25		14	190				
			C		36.5		8	34	15			
			F	21	15							
80	" 20	I	e	20	31.2		4		½			
			eL		38.5		18					
			ME		39 50		12		6			
			MN		40 08		12	4				
81	" 21	I	F	Lost in No. 79.								
			eP	11	24.4		3					
			e(SR ₁)		37.4		12	1½	-			
			eL		41.4		20					
			MN		45 42		12	7				
82	" 22	I _r	F	12	25					3040	Az. 250½° (N. 70½° E)	
			iP	6	37 27		4	+4½	+13½			-9
			ePR ₁		38.7		4					3
					38 59		4	6½	13			
			iS		42 13		5	-26	+9			
			eL		44.0		12					
			MN		45 34		8	12				
83	" 22	I _r	ME		45 40		8		10	3000	φ, 22° S λ, 180° F mixed up with No. 83.	
			iP	6	42 31		4	+5	+1			
			iS		47 12		4	-13	+36			
			eL		49.0		14					
			MN		50 09		10	14				
84	" 23	I	ME		50 21		10		17			
			F	8	30							
			eP	9	50.4		4	-	½			
			eL		57.0		16					
			ME		58 33		15		5			
			MN		59 23		14	4				

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33^{\circ} 49' 49''$ S. $\lambda = 151^{\circ} 9' 30''$ 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	ε : 1	r T _o ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
							s.	μ	μ	μ	km.	
85	1918 May 23	I _u	eP	12	13.4	?				13,000		
			eS		26.6	8	$\frac{1}{2}$	$\frac{1}{2}$				
			PS		28.4	10	$\frac{1}{2}$	$\frac{1}{2}$				
			SR ₁		32 56	14	1	2				
			eL		48.5	28						
			ME ₁		50 12	20		10				
			MN ₁		56 29	15	3 $\frac{1}{2}$					
			ME ₂		59 56	15		8				
			MN ₂	13	03 35	15	3 $\frac{1}{2}$					
			ME ₃		04 26	14		4 $\frac{1}{2}$				
F		14 10										
86	" 24	I	e	17	18.6	5	$\frac{1}{2}$					
			eL		23.6	14						
			ME		25 28	10		3				
			MN		27 01	10	1 $\frac{1}{2}$					
			F		17 40							
87	" 24	I	eL	18	55.4	12						
			MN		59 49	10	1 $\frac{1}{2}$					
			ME		19 01 12	10		1 $\frac{1}{2}$				
88	" 24	I	eL	23	52.5	12				Early phases lost... Changing papers.		
			ME		53 51	10		1 $\frac{1}{2}$				
			MN		55 25	10	2					
89	" 25	I	e	14	49.4	6	$\frac{1}{2}$	-				
			eL		01.1	20						
			MN		03 31	14	3					
			ME		03 56	12		3				
90	" 25	I _u	eP	19	42.5	?			9500			
			eS		53.1	10	2	3				
					55 11	12	6	6				
			eSR ₂		59.7	14						
				20	00 17	14	4	3 $\frac{1}{2}$				
			eL		12.6	32						
			M ₁		14 33	20	7	10				
			M ₂		13 32	14	3	3 $\frac{1}{2}$				
			F		22 25							
			91	" 26	I	eL	20	06.0			25	
MN		07 34				12	1 $\frac{1}{2}$					
ME		09 03				10		1				
F		20 25										

E. F. Pigot

No. 6

1918, June.

19

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

 $\phi = 33^\circ 49' 49'' \text{ S.}$
 $\lambda = 151^\circ 9' 30'' \text{ E.}$
 $h = 41.9 \text{ m.}$

Foundation: Triassic sandstone.

INSTRUMENTS:

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

	V	T_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
$A_1 \left. \begin{matrix} (1) \\ (3) \end{matrix} \right\}$	144	7.5	5.5	0.02
$A_2 \left. \begin{matrix} (1) \\ (3) \end{matrix} \right\}$	134	9.9	4.2	0.02
$A_3 \left. \begin{matrix} (1) \\ (2) \end{matrix} \right\}$	150	7.0	3.0	0.02
	143	9.5	8.0	0.05
	88	4.3	3.1	0.08

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

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A_N	A_E	A_Z		
92	1918 June 1	I_r	eP	14	23.3	(36)	-	$\frac{1}{2}$			2800?	
			e(S?)		27.8	8	-	1				
			eL		30.3	25						
			M_1		31 10	18	14	9				
			M_2		32 37	16	17	24				
			MZ		32 37	16				7		
			F	15	15							
93	" 3	I	eP	0	23.0	3?						
			e?		30.4	6	-	$\frac{1}{2}$				
			e?		33.5	8	-	$\frac{1}{4}$				
			eL?		45.5	15						
			M		51 29	14	1	-	$\frac{3}{4}$			
94	" 3	I	e(S?)	0	54.0	9	-	$\frac{3}{4}$			F lost in No.94	
			e(L?)	1	03.7	22						
			MN_1		24 56	12	1					
			ME_1		26 31	12		$\frac{1}{2}$				
			ME_2		31 29	16		$\frac{1}{2}$				
			MN_2		31 45	16	3					
			F	2	40							
95	" 3	I	eP	3	01.8	4	-	$\frac{1}{2}$		2800?		
			S?		06 20	7	-	1				
			eL		09.1	18						
			M		10.9	16	$\frac{1}{2}$	4				
			F	3	30							
96	" 4	I_r	eP	4	09 20	(10)	1	$\frac{1}{2}$		2900		
			PR_1		10 10	5	5	$\frac{1}{2}$				
			eS		13.9	10	3	4				
			iS		14 01	10	+18	+6				
			iPS		14 18	10	-38	+24				
			eL		16.0	?						
			ME		20 45	14		70				
			MN		21 33	16	28					
			MZ		21 38	16					7	
			F	4	40							

(Continued on next sheet)

Riverview College Observatory, SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33^\circ 49' 49''$ S. $\lambda = 151^\circ 9' 30''$ E. $h = 41.9$ m. Foundation: Triassic sandstone.

INSTRUMENTS:

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

	V	T ₀	ε : l	r T ₀ ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
97	1918 June 4	II _r	iP	17	18	31	4	-	-4		3500	Time at origin: h m s. 17 12 11
			iPR ₁		18	38	4	1	6			
					19	51	4	-	+8			
					21	35	4	-	3			
			iS		23	50	8	+3½	+18			
			PS		24	12	9	4½	11			
			eL		25	.7	22					
			MN ₁		27	07	20	150				
			ME ₁		27	32	20		80			
			MZ		31	06	16			15		
			ME ₂		31	22	12		45			
			MN ₂		34	21	12	45				
98	" 5	I _r	F	19	30					2600		
			eP	22	34	.7	4	-	1			
			iS		38	54	7	-7½	+1			
			eSR ₁		40	11	8	4½	1½			
			eL		41	.5	15					
			MN		42	06	15	13				
			ME		42	47	13		10			
99	" 6	III _r	F	23	30					1190	Epicentre prob- ably, φ, 24°S. λ, 154°E°	
			iP	18	16	53	(¼)	-2½	-			-
			iS		18	59	4	-18	+5½			+3½
			iL		19	06	8	-32	+24			+25
			M ₁		19	35	(¼)	160	120			70
			MZ ₂		20	58	3					70
			MN ₂		21	03	(⅓)					
			ME ₂		22	19	4½		190			
			MN ₃		22	26	4	110				
			MZ ₃		22	36	4					62
100	" 7	I	F	19	40							
			e	14	58	.3	5	-	½			
			eL	15	03	.2	12					
			ME		04	11	10		2			
			MN		04	18	10	1½				
101	" 7	I	F	15	10							
			eP?	22	13	.0						
			eL		20	.9	20					
			ME ₁		31	58	15		2½			
			ME ₂		35	49	14		2			
			MN		36	15	16	1½				

(Continued on next sheet)

6 (continued)

1918, June.

No.

19

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33^\circ 49' 49''$ S. $\lambda = 151^\circ 9' 30''$ E. $h = 41.9$ m. Foundation: Triassic sandstone.

INSTRUMENTS:

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

	V	T ₀	ε : 1	r T ₀ ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A _N μ	A _E μ	A _Z μ		
102	1918 June 8	I _r	eP	20	28.3					2700		
			eS		32.6	10	1	1/2				
			PS		33 01	10	1	2				
			eL		35.3	?						
			MN		42 49	15	2 1/2					
			ME		46 02	13		2				
103	" 10	I	F	21	05							
			e	5	44.9							
			eL		48.6	16						
104	" 10	I _r	M		50 35	13	-	1		4200		
			F	6	05							
			eP	15	40.3	2	1/2	-				
105	" 16	I _r	iS		46 18	5	-6	+3		2800		
			SR ₁		48 21	8	4	12				
			eL		51.2	20						
			ME ₁		52 03	12		30				
			MN									
			ME ₂)		54.2	14	15	30				
			MZ		58 05	12			4			
			F	16	45							
			eP	5	16 46	4	3	1/4	1/2			
			PR ₁		18 24	6	5	-				
106	" 17	I	eS		21.3	8	4	-		A few long waves.		
			i		21 23	8	-15	-				
			PS		21 33	8	3	9				
					22 15	9	17					
					22 43	9		18				
			eL		24.5	16						
			MN		26 57	10	29					
			ME		27 09	10		45				
			F	6	40							
			e	18	54.6	16						
107	" 19	I	e	23	09.2							
			eL		10.6	14						
			MN		11 29	10	2					
			ME		11 39	10		3				
108	" 21	I	F	23	20							
			eL	5	07.1	16						
			ME		08 48	14		1				
			MN		12 40	10	1					
			F	5	20							

(Continued on next sheet)

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	V	T _o	ε : 1	r T _o ²
A _N				
A _E				
A _Z				

(See last sheet)

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
109	1918 June 24	I _r	eP	14	53.9	4	1	-		2300		
			eS		57.7	8	3½	-				
			PS		58 15	8	7	1½				
			eL	15	00.0	18						
			MN									
			ME		03.6	18	36	38				
			MZ		03 48	18			10			
110	" 26	I _r	F	15	50					2500		
			eP	21	35 18	4	2	-				
			i		36 11	4	-6½	+3½				
			eS		39.4	7	-	1				
			PS		39 47	7	3	6				
			i		41 22	6	-	+9				
			eL		42.0	20						
			MN		43 06	14	10					
			ME ₁		44 23	12		8				
			ME ₂		51 24	10		9				
111	" 28	I	F	22	25							
			eP	14	00.0	3	3	½				
			MN		02 55	7	1					
112	" 29	I _r	ME		04 38	8		1				
			F	14	15							
			e(P?)	4	20.8	6	½	-				
			e		27.3	10	1	½				
			eL		48.6	?						
			MN ₁		51 46	16	11					
			ME ₁		52 44	16		6				
ME ₂	5	06 26	8		5½							
MN ₂		06 41	8	3½								
F	5	45										

E. F. Pigot

No. 7

1918, July.

19

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		V	T_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
A_N	(1)	146	7.5	5.0	0.02
	(3)	129	9.7	4.7	0.02
A_E	(1)	148	7.0	3.0	0.01
	(3)	129	9.8	8.0	0.05
A_Z	(2)	79	4.1	3.0	0.05

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

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A_N	A_E	A_Z		
								μ	μ	μ		
113	1918 July 1	I _u	eP	6	17.3			$\frac{1}{2}$	$\frac{1}{4}$		5200	Philippines.
			PR ₁		19 25			1	1			
			eS		24.2	10		2	$1\frac{1}{2}$			
					24 19	10		6	14			
			PS		24 43	10		8	4			
			eL		32.8	22						
			MN ₁		33 47	17	16					
			ME ₁		35 00	16			35			
			MN ₂		36 16	16	35					
			ME ₂		39 59	16			18			
			MN ₃		43 21	15	25					
			ME ₃		43 39	15			20			
			MZ		45 37	16				$7\frac{1}{2}$		
			MN ₄		46.6	14	21	20				
ME ₄												
114	" 3	III _r	F	7	55						3350	Felt in Schouten Is. (New Guinea) $\phi, 3\frac{1}{2}^\circ$ S. $\lambda, 144\frac{1}{2}^\circ$ E.
			IP	6	58 25	5	+6	$-\frac{1}{2}$				
			PR ₁	7	00 11	5	9	3				
			eS		03 32	7	19	7	$2\frac{1}{2}$			
					03 43	7	22	3				
			eL		05.8	50						
			MN ₁		11.2	15	950	1220				
			ME ₁							520		
			MZ ₁		11 44	16						
			MN ₂		12 12	12	700					
			ME ₂		13 08	11		820				
			MN ₃		13 38	11	900					
			MZ ₂		13 41	11				370		
			ME ₃		14 15	11		1010				
			ME ₄		15 09	10		650				
			MZ ₃		16 34	8		330	210			
			ME ₅									
			MN ₄		17 35	8	380					
			ME ₆		18 35	8		250				
			ME ₇		20 48	10		330				
MN ₅		21 22	12	600								
MZ ₄		21 27	12				218					
C ₁		26.7	10	170	130	58						
C ₂		30.8	10	150	100	70						
C ₃		42 08	10	55	47	16						
e		9 48.3										
MN		53 57	18	5								
ME		56 48	18			7						
F		12 30										

(Continued on next sheet)

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	V	T ₀	ε : 1	r T ₀ ²
A _N				
A _E				
A _Z				

(See last sheet)

No.	Date.	Char.	Phase.	Time (Greenwich)			Per. s.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A _N μ	A _E μ	A _Z μ		
115	1918 July 6	I _r	eP	20	16.2						2900	
			eS		20.8		6	1/2	1/2			
			PS		21 21		6	2	2			
			eL		25.1		18					
			MN		25 46		16	9				
			ME		27 02		14		9			
116	" 7	I	F	21	20							
			e?	20	16.3							
			eL		23.2		16					
			MN		23 53		15	1 1/2				
117	" 8	II _u	ME	20	55		13		4			
			F	20	35							
117	" 8	II _u	eP	10	34 24		4	1/2	1		9000	Destructive Earthquake in Assam. (See Special Bulletin, issued 1918, July 17.
			PR ₁		37 34		6	2	4	2 1/2		
			PR ₂		39 30		6	3	4			
			iS		44 33		8	1/2 29	+4	2		
					44 38		8	41	8			
			PS		45 07		8	23	43			
			SR ₁		50 02		10	16	14			
			SR ₂		53 12		10	16	5 1/2			
			SR ₃		55 49		10	12	9			
			eL		57.4		70					
			M ₁	11	01 28		42	1120	700			Unusually long periods.
			M ₂		04 11		36	770	155			
			MZ ₁		04 18		34			100		
			MN ₃		10 50		22	160				
			ME ₃		11 39		22		210			
			MZ ₂		11 48		22			70		
			ME ₄		15 07		21		130			
			MZ ₃		15 12		18			40		
			MN ₄		15 50		20	72				
			C		20 08		16	39	20			
W ₂ waves		eW ₂	12	47.8		28						
		M		48 41		26	4					
		F		15 00								
118	" 9	I	e?	5	02.3		8	3			Heavy micro- seisms all day masking seismic waves.	
119	" 9	I	e?	12	35.6		9	3				

(Continued on next sheet)

No. 7 (continued)

1918 July

19

Riverview College Observatory, SYDNEY, N.S.W.

Seismological Bulletin.

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2. Wiechert Vertical Seismometer (80 kilo.)
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	V	T _o	ε : 1	r T _o ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
120	1918 July 11	I _r	eP	21	51.9		4				2500?	
			S?		52 04		4	2		1		
			eL		56 02		7	-		1/2		
			M		57.1		12					
121	" 16	I	F	22	45		12	4 1/2	3			
			e	18	24.5		4	2 1/2	3			
			e		32.4		6	-	1			
122	" 16	I	F	18	36							
			e?	23	25.4		5	1/2	1/2			
			ME		37 51		?					
123	" 21	II _r	MN		40 04		14	2				
			F	23	50							
			eP	6	15 12	(2)	8	1/2	-		3100	Azim. 183 1/2°
			iP		15 33	8		-17	-1	+20		(N. 3 1/2° E.)
			i		16 04	8		-16	-			φ, 6° S.
			i(PR ₁ ?)		16 23	9		-34	-11			λ, 153° E.
			iS		20 00	8		-36	-16			
			PS		20 21	8		100	22	20		(cf. Zi-ka-wei)
			eL		21.7	22						
			ME ₁		25 12	11			130			
			MN ₁		26 13	12		160				
			MZ ₁		26 33	12				60		Time at origin:
			ME ₂		27 03	11			130			h m s.
			MZ ₂		29 02	11				55		6 09 10
			MN ₂		29 25	11		115				
MN ₃		32 50	10		95							
C		43.1	11		35	40						
124	" 21	I _r	F	9	10							
			eP	9	50 24		4	1	1/2		2600	
			eS		54 38		8	1 1/2	1			
			PS		55 10		8	9	2			
			SR ₁		56 34		8	-	5			
			eL		57.8		12+					
			MZ		10 01.3		10		19	3		
			ME		03 33		11	16				
125	" 22	I	F	11	10							
			e	5	44.6		6	1	-			
			e?		48.7		?					
			eL		51.7		16					
			MN		52 24		15	5				
			ME		53 23		14		4			

(Continued on next sheet)

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	V	T _o	ε : l	r T _o ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
126	1918 July 23	I	e?	13	26.1		5	$\frac{1}{2}$	-		km.	
			eS		32.5		12	$1\frac{1}{2}$	3			
			PS		33 01		16	14	8			
			eSR ₁		35.2		13	3	5			
			eL		37.5		20					
			MN ₁		39 00		17	22				
			ME ₁		39 09		16		14			
			MZ		39 57		16			10		
			ME ₂		42 25		11		5			
			MN ₂		46 59		12	7				
			ME ₃		48 48		10		5			
			F		14 30							
			127	" 24	I _r	eP	10	58.2		5		
S	11	02 17					7	1	$2\frac{1}{2}$			
PS		02 30					8	$1\frac{1}{2}$	3			
SR ₁		03 42					12	7	-			
eL		04.9					16					
MN ₁		06 30					15	24				
MZ		07 18					17			11		
ME ₁		08 29					15		26			
MN ₂		09 02					12	15				
ME ₂		12 07					14		22			
128	" 24	I	e	14	06.7		5	-	1			
			eL		14.2		16					
			MN		14 43		15	4				
			ME		15 54		14		$4\frac{1}{2}$			
			F?		14 25							
129	" 26	I	e	1	00.2		?					
			MN		05 01		12	1				
			ME		05 08		12		3			
			F		1 15							
130	" 28	I	e	21	19.4		6	-	$\frac{1}{2}$			
			eL		24.2		18					
			MN		24 19		15	$2\frac{1}{2}$				
			ME		25 21		16		4			
			F		21 40							

(Continued on next sheet)

No. 7 (continued)

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19

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	V	T ₀	ε : l	r T ₀ ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A _N	A _E	A _Z		
131	1918 July 29	I _r	eP	11	21.6	6	-	$\frac{1}{2}$	2400			
			eS		25.5	7	1	$2\frac{1}{2}$				
			PS		25 48	7	2	3				
			eL		28.1	20						
			ME		30 43	14		7				
			MN		32 15	12	4					
			F	12	30							
132	" 29	II _r	eP	16	56.7	4	-	1	3100	Felt at Eitape, N. Guinea. (VI R.F.) Also at Kieta,- Bougainville I. (IV R.F.)		
			eS	17	01.5	7	3	2				
			eL		03.7	20						
			ME ₁		07 49	20		300				
			MN ₁		09 21	16	220					
			MZ ₁		09 54	16			72			
			ME ₂		11 34	12		150				
			MZ ₂		12 03	12			50			
			MN ₂		13 33	12	110					
			ME ₃		14 42	12		160				
			C		22 27	10	35	40				
			F	20	00							
			133	" 31	I	e(L?)	15	34.7	20			
ME		41 00				16		6				
MN		43 49				12	$1\frac{1}{2}$					
134	" 31	I _r	F	16	10							
			eP	22	03.7	4	$\frac{1}{2}$	1	2400			
			eS		07.6	6	1	1				
			PS		07 56	6	3	4				
			eL		10.3	16						
			ME		12 18	12		6				
			MN		12 45	12	8					
			F	23	10							

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2. Wiechert Vertical Seismometer (80 kilo.)
3. Manka Conical Pendulum Seismometer (450 kilo.)

	V	T_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
$A_N(1)$	144	7.6	5.3	0.02
$A_N(3)$	130	9.9	5.0	0.02
$A_E(1)$	148	7.0	3.1	0.01
$A_E(3)$	130	9.5	8.0	0.05
$A_Z(2)$	77	4.1	2.8	0.05

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ	Remarks.
				h.	m.	s.		A_N	A_E	A_Z		
							s.	μ	μ	μ	km.	
135	1918 Aug. 1	I	e?	11	52.4		5					
			e(S?)		57	31	12	$1\frac{1}{2}$	-			
			eL	12	00.1	16						
			LN		01	23	12	3				
			ME		04	09	15			5		
136	" 2	I	F	12	25							
			e?	9	15.6							
			e		21.5							
137	" 3	I	ME		22.8		15		4			
			F	9	25							
			eP	8	49 08	4					2790	
			eS		53 36	7	$1\frac{1}{4}$	2				
					54 39	8	2	-				
138	" 4	Ir	eL		55.9		16					
			ME		57 22	16			$\frac{1}{2}$			
			MN ₁		57 45	15	3					
			MN ₂	9	00 03	9	$3\frac{1}{4}$					
			F	9	30							
			e	10	20.8						3000	Felt at Kieta, Bougainville I.
			eL		23.2		16					(R.F. IV)
139	" 4	I	MN		25 40		12	$1\frac{1}{2}$				
			ME		28 04		13		2			
			F	10	45							
			e?	22	30.8		4					
			eL		36.7		?					
140	" 5	I	ME		37.23		14		4			
			MN		39 06		13	4				
			F	22	55							
			eP	1	42 57		4	-	$1\frac{1}{4}$			
			e(S?)		46 11		9	$1\frac{1}{2}$	$\frac{3}{4}$			
141	" 6	I	e(SR ₁ ?)		47 29		10	4	3			
			eL		48.9		15					
			ME		53 48		14		2		$1\frac{1}{2}$	
			MZ									
			MN		54 21		13	2				
			F	3	05							
			e?	4	54.9							
142	" 8	II _r	eP	9	53 52		2	2	-		2980	
			i		54 07		4	+9	$+\frac{1}{2}$	$+\frac{3}{4}$		
			iS		58 34		6					
							24	185	-	-		
			PS		59 05		16	120	15	30		
			i(SR ₁ ?)	10	00 34		12	-27	+105			
			eL		01.6		28					
			M ₁		02.3		24	220	280			
			MZ ₁		02 52		24				220	(See next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33^\circ 49' 49''$ S. $\lambda = 151^\circ 9' 30''$ E. $h = 41.9$ m. Foundation: Triassic sandstone.

INSTRUMENTS:

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

	V	T ₀	ε : 1	r. T ₀ ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Char.	Phase.	Time (Greenwich)			Per.	Amplitude.			Δ km.	Remarks.
				h.	m.	s.		A _N μ	A _E μ	A _Z μ		
142 (contd.)	1918 Aug. 8		MN ₂	10	03	08	20	246			95	
			ME ₂		03	21	16		150			
			ME ₃		04	03	14		125			
			MZ ₂		05	23	16					
			LN ₃		05	35	14	105				
143	" 8	I	F	11	55							
			e?	12	06.2							
			eL		10.1	17						
			ME		10 56	14		2				
144	" 8	I	LN	12	58	15	3					
			F	12	55							
			eL	12	42.8	20						
			ME		45 17	13		1				
145	" 10	I	LN	45	44	15	4½			Possibly the W ₂ waves of No. 142		
			F	13	05							
			e(L?)	18	00.5	?						
			ME		02 18	?						
146	" 11	I	LN	05	03	13	1½					
			F	18	20							
			e	11	55.3	?						
147	" 15	III _u	e		59.5	?				5470	Celebes Sea.	
			F	12	10							
			eP	12	26	30	4	-	½			
			i		26	49	4	-3½	+2½	-8		
			i		27	00	4	-29	+23	+13		
			iPR ₁		28	37	5	+15	-14	-22		
			iPR ₂		29	08	5	+48	-35	-38		
			iS		33	38	8	-16	+23	+24		
			iPS		34	13	9	108	-100	+42		
			iSR ₁		36	20	8	-41	-43	12		
			iSR ₂		37	33	9	265	-290	42		
					37	49	9	120	148			
					38	26	8	165	130			
			eL		40.4		40					
			M ₁		46	36	20	765	475	690		
			ME ₂									
			MZ ₂)		49.0		19		2770	2920		
			LN ₂		49	17	19	3420				
			IZ ₃		51	35	16			950		
			MN ₃		51	48	16	1210				
			LN ₄		55	15	13	700				
			ME ₃		55	36	16		870			
			ME ₄	13	00	43	12		305			
			CN ₁		05	12	12	210				
			CE ₁		06	30	12		130			
			CE ₂		13	54	13		95			
			CN ₂		16	51	12	108				
			CN ₃		21	40	12	85				

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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Foundation: Triassic sandstone.

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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_0	$\epsilon: 1$	$\frac{r}{T_0^2}$
A_x				
A_y	(See last sheet)			
A_z				

No.	Date.	Phase.	Time (Greenwich)				Per.	Amplitude			Δ	Remarks.	
			h.	m.	s.	s.		A_x	A_y	A_z			km.
(147 contd.	1918 Aug. 15	CE ₃	13	24	34	13			85				
		eW ₂	15	03	5	28							
		ME ₁		08	11	20			15				
		MN ₁		09	20	20	13						
		MN ₂		12	52	20	13						
		ME ₂		14	43	17			7				
		MN ₃		17	43	17	13						
		eP ₃	15	35	01	3							
		eS?		41	5	?							
		MN ₁		55	23	16	8						
148	" 15	ME ₁		55	59	16			9				
		MN ₁		58	00	14	12						
		ME ₂	16	03	00	14			11				
		F	Lost in N ^o 149										
		eP	17	38	38	5	2 $\frac{1}{2}$	1	1	5010			
		PR ₁		40	31	6	2 $\frac{1}{2}$	2 $\frac{1}{4}$					
		eS ₁		45	21	8		2 $\frac{1}{4}$					
		iS		45	30	8	1 $\frac{1}{4}$	11					
		iSR ₁		48	34	9	16	29					
		eL		52	7	25							
149	" 15	ME		59	03	22			90				
		MN	18	00	07	18	61						
		IZ		00	14	18			36				
		F	19	35									
		eP	3	34	01	5	1 $\frac{1}{2}$	1 $\frac{1}{2}$		5120			
		ePR ₁		36	06	6	1 $\frac{1}{2}$	1 $\frac{1}{2}$					
		eS		40	50	8	1 $\frac{1}{2}$	1					
		eSR ₂		44	12	10	3	3 $\frac{1}{2}$					
				44	39	10		11 $\frac{1}{2}$					
		eL		50	1	20							
150	" 16	ME ₁		56	03	14			13				
		MZ		56	10	14			4 $\frac{1}{2}$				
		MN ₁		56	24	14	10						
		MN ₂		58	43	12	7 $\frac{1}{2}$						
		ME ₂	4	02	49	12		7 $\frac{1}{2}$					
		eP	6	30	08	4	-	1				F lost in taking constants.	
		eL		37	8	?							
		MN		40	32	10	2						
		ME		42	30	10		2					
		F	6	55									
151	" 16	e	6	40	8								
		eL		50	1	13							
		ME		51	50	10		1 $\frac{1}{2}$					
		MN		54	29	12	2 $\frac{1}{4}$						
		F	8	10									
152	" 16												

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

	V	T ₀	ε: 1	$\frac{r}{T_0^2}$
A _x				
A _y	(See last sheet)			
A _z				

No.	Date.	Phase.	Time (Greenwich)			Per.	Amplitude			Δ	Remarks.
			h.	m.	s.		A _x	A _y	A _z		
153	1918 Aug. 16	iP	8	44	22	2	1½	-		4130	
		eS		50	17	10	2	-			
				51	34	10	4	1			
		SR ₁		54	41	12	4½	1½			
				55	07	11	4½	8½			
		e(L?)		59	.3	12					
		ME ₁	9	05	16	16		1½			
		MN ₁		05	35	18	14				
		MZ		06	23	18			12		
		MN ₂		09	13	16	8				
		ME ₂		10	00	12		4½			
		F ₂	10	05							
154	" 16	e	9	43.3							
				43.7	12	3	3				
155	" 17	F	9	55							
		e(S?)	7	29	17	?					
		e		32.7	12	1½	-				
		eL		45.4	28						
		MN		47	21	22	8				
		ME		49	49	22		6			
156	" 17	F	8	10							
		e(S?)	10	41	08	12	2½				
		eL		48.0	16						
		MN		50	46	12	3				
		ME		51	47	10		2			
157	" 18	F	11	00							
		e?	6	16.4							
		e(S?)		23	41	8	-	1			
		e(SR ₁)		27	39	8	½	1			
		eL ₁		33.4	14						
		MN		34	57	12	3				
158	" 19	ME		40	22	19		1½			
		F	7	35							
		e	12	12.4						A few long waves	
		e	17	46.6	6	-	½				
159	" 19	e		53.6	9	1	-				
		ME		58	04	?					
		MN		58	42	15	2½				
		F	18	20							
160	" 21	e	0	39.4							
		eL		44.1	?						
		ME		44	47	10		2			
		MN		47	14	13	1½				
161	" 23	F	1	05							
		e	0	30.2						A few long waves.	

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^\circ 49' 49'' \text{ S.}$
 $\lambda = 151^\circ 9' 30'' \text{ E.}$
 $h = 41.9 \text{ m.}$

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 ₀	e: 1	$\frac{r}{T_0^2}$
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Phase	Time (Greenwich)		Per.	Amplitude			Δ	Remarks.
			h.	m. s.		A _N	A _E	A _Z		
162	1918 Aug, 23	eP	6	42 14	6				2870 km. Computed azimuth:- 202½° (N. 22½° E.) ϕ, 10° S. λ, 161½° E. Computed time at origin- h m s 6 36 21	
		iP		42 18	6	-10	-½	+4		
		iS		46 48	8	-18	+3			
				46 56	8	31	11			
		PS		47 07	8	18	19			
				47 56	8	31	33			
		eL		48.3	?					
		MZ ₁		51 54	17			33		
		MN ₁		52 28	12	85				
		ME ₁		53 23	12		90			
		MN ₂		53 34	12	63				
		MZ ₂		54 18	13			2		
		ME ₂		56 42	12		94			
		C ₁		57 51	10	34	44			
		C ₂		7 02 25	10	37	34			
163	" 23	F	9	05						
		e?	9	34.2						
		ME		42 45	10		2			
164	" 23 24)	MN		43 44	9	1				
		F	9	55						
		e(P?)	22	34 06				3090?		
		eS		38 56	?					
		eL		42.4	18					
		MN ₁		46 23	12	9				
		ME ₁		46 50	12		9			
ME ₂		50 26	10		22					
MN ₂		51 25	10	6						
F		0 10								

(Continued on next sheet)

No. 8 (Continued)

192

1918, August.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

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h = 41.9 m.

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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_0	$e: 1$	$\frac{r}{T_0^2}$
A_N				
A_E	(See last sheet)			
A_Z				

No.	Date.	Phase	Time (Greenwich)			Per.	Amplitude			Δ km.	Remarks.
			h.	m.	s.		A_N μ	A_E μ	A_Z μ		
165	1918 Aug. 24	e?	11	43.7						A few long waves.	
		e?		53.8							
166	" 24	e	18	01.7							
		e?		07.3							
		eL		18.1	50						
		MN	19	20	40	24					
		F	19	00							
167	" 25	e(S?)	10	58	28	8	1				
		eL	11	03.5	20						
		MN		03	45	14	3				
		ME		06	48	12		3			
		F	11	20							
168	" 29	e	21	26.3	4						
		eS		30.6	6	$\frac{3}{4}$					
		eL		33.8	12						
		MN		34	49	10	$1\frac{1}{2}$				
		ME		35	00	10		$1\frac{1}{2}$			
		F	22	00							
169	" 31	eP	22	02	07						
		e		03	52	5	-	1			
		eS?		09	42	7	-	1			
		e(SB ₁ ?)		11	54	8	$1\frac{1}{2}$	$1\frac{1}{2}$			
				12	20	8	1	1			
		eL		17.4	18						
		MN		20	26	12	6				
		ME ₁		20	43	12		4			
		ME ₂		24	05	16		9			
		F	23	05							

E. J. Pigot

No. 9

192 1918, September.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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Foundation: Triassic sandstone.

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	V	T_0	e:1	$\frac{r}{T_0^2}$
$A_N(1)$	146	7.6	5.5	0.02
$A_N(3)$	132	9.8	3.9	0.02
$A_N(1)$	153	7.0	3.2	0.02
$A_N(3)$	133	9.5	8.0	0.05
$A_Z(2)$	79	4.1	3.0	0.05

No.	Date.	Phase.	Time (Greenwich)		Per.	Amplitude			Δ	Remarks.
			h.	m. s.		s.	A_N	A_E		
						μ	μ	μ	km.	
170	1918 Sept. 2	eP	14	21 04	2				3090	Heavy microseisms present.
		eS		25 54	6	1	1			
		e?		28.5	10	-	2			
		eL		30.9	30					
		MN ₁		32 42	28	80				
		ME ₁		33 28	14		11			
		MZ ₁		35 21	14			14		
		MN ₂		36 50	12	25				
		ME ₂		37 16	9		25			
		MZ ₂		39 47	10			10		
		F	15	25						
171	" 5	eP	7	14 06	4	-	-		5420	
				14 42	5	1 $\frac{1}{2}$				
		eS		21 11	6	1	$\frac{1}{2}$			
		eSR ₁		24 36	9	4	3 $\frac{1}{2}$			
		eL		34.3	30					
		MN ₁		38 22	13	5				
		MN ₂)		41 56	13	5	3			
		ME								
		F	8	20						
				e?	16	50.7				
172	" 5	e		56.7						
		e	17	13.0						
		MN		13 52	?					
		ME		14 12	16		4 $\frac{1}{2}$			
		F	17	30						
172a	" 7	e	7	32.0	6	1	$\frac{3}{4}$			
		eL		40.6	15					
		MZ		43 18	?					
		MN		43 24	13	7				
		ME		43 46	12		9			
		F	8	00	2					
173	" 7	eP	17	28 31	4	1 $\frac{1}{2}$	$\frac{1}{2}$		8790	Near Urup (Kurile Is.) (Osaka) cf. Special Bulletin issued 1918, Sept. 17. Wave lengths quite exceptionally long at this stage.
		i		29 02	4	+13	+2	-7 $\frac{1}{2}$		
		PR ₁		31 19	5	4	4	1		
		iS ₁		38 30	8	-16	-14			
		PS		38 54	8	35	60			
		eL		49.0	55					
		ME ₁		50 47	40		2840			
		MN ₁)		54 26	38	1275		700		
		MZ ₁)								
		MN ₂)	18	05 55	18	1000		600		
		MZ ₂)								
		ME ₂		07 44	16		475			
		ME ₃		10 00	16		465			
MN ₃		11 04	16	430						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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	V	T_0	$e:1$	$\frac{r}{T_0^2}$
A_N	(See last sheet)			
A_E				
A_Z				

No.	Date.	Phase	Time (Greenwich)	Per.	Amplitude			Δ	Remarks.
					A_N	A_E	A_Z		
173	1918 Sept. 7	ME ₄ MN ₄ MN ₅) ME ₅ MZ ₅ C ₁ C ₂ C ₃ F	18 13 24 ^s 13 51 16 19 50 16 25 16 16 26 29 14 34 55 14 42 04 14 22 40	16 16 16 16 14 14 14 14	" 245 300 110 60 115	425 275 205 42 110 55	" 100	km.	An anomolous feature of the seismograms is the absence of expected W_2 (or L_{rep_1}) waves, due about:- h m 22 22
174	" 8	eL MN ME F	6 25.7 28 04 32 07 6 40	16 12 14	1	2		P, obscured by micro:} seisms.	
175	" 9	e eL M	12 34.3 36 10 37.3	15 13	$1\frac{1}{2}$	$2\frac{3}{4}$		h m F 12 55	
176	" 9	e? eL M F	14 44.9 51.6 52 49 15 10	14 12	3	$2\frac{1}{4}$			
177	" 11	eP PR ₁ eS ₁ PS eSR ₁ SR ₂ eL M ₁ M ₂ F	4 14 51 16 48 21 46 22 05 25 14 25 28 26 26 30.9 35.8 37.9 6 15	4 6 10 10 8 8 11 20 16 16	1 $1\frac{3}{4}$ 2 5 6 7 6 10 8 8	1 - 2 $4\frac{1}{2}$ 1 7 2	$1\frac{1}{2}$ 5230		
178	" 11	iP e(S?) eL MN ME F	10 42 30 46 53 49.1 51 00 55 30 11 10	4 7 11 9 15	- $1\frac{1}{4}$ $2\frac{1}{2}$	$+2\frac{1}{2}$ $\frac{1}{2}$ $3\frac{1}{4}$	2730?		
179	" 12	eL M F	13 55.4 14 06 06 14 30	24 18	$3\frac{1}{2}$	$3\frac{1}{2}$			
180	" 13	e	11 36.2	20				A few long waves.	
181	" 14	e? e(S?) eL MN ₁ ME MN ₂ F	17 17.3 26 58 37.8 45 28 45 38 56 01 18 50	7 12 15 15 15	$3\frac{1}{2}$ 6 4	4 5			

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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	V	T ₀	ε: 1	$\frac{r}{T_0^2}$
A _N	(See last sheet)			
A _E				
A _Z				

No.	Date.	Phase	Time (Greenwich)		Per	Amplitude			Δ	Remarks.	
						A _N	A _E	A _Z			
1918											
182	Sept. 16	iP	13	08 05	5	-16	+10	-1½	1910	Computed azimuth:- 327½° (S. 32½° W.) φ, 47½° S. λ, 165° E. Computed time at origin:- h m s 13 03 55	
		eS		11 20	10	2	2				
		iS		11 58	10	-22	-35				
		eL		12.5	20		65				
		ME		13 07	15						
		MN		13 25	15	40					
		MZ		14 14	13			2			
		F		14 10							
183	" 19	e?	2	37.5	4						
		e?		39.9	7						
		eL		42.1	15		1				
		ME		43 06	10						
		MN		43 30	10	1					
		F		2 55							
184	" 19	e?	20	02.1							
		eL		16.5	16						
		MN ₁		20 05	11	2					
		ME		25 22	9		1				
		MN ₂		27 25	9	1½					
		F		21 15							
185	" 22	eP	10	04 48	5		2½	6400			
		iS		12 46	7	-	+3				
				12 49	7	2	4				
		eL		21.8	?						
		MN ₁		26 32	16	1					
		ME		29 27	18		1¼				
		MN ₂		32 25	16	½					
		F		11 20	3)						
186	" 25	eP	9	57 40	6)	½	½	2440			
		S	10	01 40	7	1	2½				
				01 46	7	3½	5				
		eL		03.4	18						
		MN ₁		04 31	14	1					
		ME ₁		05 14	13		3				
		MN ₂		08 30	12	7					
		ME ₂		09 00	12		4				
		F		10 50							
187	" 29	e?	13	04.0							
		eL		15.2	22						
		MN		19 28	20	14					
		ME		21 50	19		26				
		MZ		24 23	17			2			
		F		14 15							
188	" 30	e?	10	50.2	4	1	-				
		eL		54.9	16						
		MN		55 57	12	2¼					
		ME		59 37	10		1½				
		F		11 15							

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ 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	e:1	r T ₀ ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Phase	Time (Greenwich)				Amplitude			Δ km.	Remarks.
			h.	m.	s.	s.	A _N μ	A _E μ	A _Z μ		
189	1918 Sept. 30	e(P?)	13	47	25	4					
		e?		51.9		7					
		iS		57	57	7	+3		-		
		PS		58	28	8	3				
		eL	14	18.2		20					
		MN ₁		19	29	18	5				
		MN ₂		23	09	16	4				
		ME ₂		23	36	16			3		
		F	15	00							
		190	" 30	eP	17	56	17	4			
iP				56	23	4	+7	+18	-6½		
				56	47	5	14	21	13		
eS	18			00	03	7	2	½			
PS				00	22	7	37	37			
eL				01.4		22					
ME ₁				01	54	20		150			
MN ₁				02	31	15	150				
MZ ₁				03	24	17			4½		
MN ₂				04	56	12	120				
ME ₂				05	50	12		106			
MN ₃				08	52	12	70				
ME ₃)				09	50	12		75	3		
MZ ₂)				12	59	12	30				
CN				13	31	12		30			
191	" 30	F	Lost in N°				191			3190	Computed time at origin:- h m s 17 51 25
		eP	18	43	41	4	1½		¾		
		iS		48	38	8	+14	-1¼			
		PS		49	11	16	55	1½			
		eL		51.8		30					
		MN ₁)		53	35	20	180		90		
		MZ ₁)		55	59	12		207			
		ME ₁		57	01	14	120				
		MN ₂		57	28	12		150			
		ME ₂		59	06	10		100			
		MZ ₂	19	02	13	13			36		
		MN ₃		04	05	15	120				
		CE ₁		06	29	10		57			
		CN ₁		06	36	9	24				
		CE ₂		09	12	9		25			
CN ₂		10	55	9	20						
F	21	10									

E. F. Pigot

No. 10

192

1918, October.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^\circ 49' 49''$ S.

 $\lambda = 151^\circ 9' 30''$ 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	$\epsilon : 1$	$\frac{r}{T_0^2}$
$A_N(1)$	139	7.6	5.5	0.02
$A_N(3)$	130	9.9	4.5	0.04
$A_E(1)$	149	7.2	3.2	0.02
$A_E(3)$	115	11.0	8.0	0.05
$A_Z(2)$	81	4.2	3.4	0.06

No.	Date.	Phase	Time (Greenwich)			Per.	Amplitude			Δ	Remarks.
			h.	m.	s.		A_N	A_E	A_Z		
192	1918 Oct. 1	e	0	55.0	5		$3\frac{1}{2}$	-			
		eL		59.9	14						
		ME	1	05 16	9			$3\frac{1}{2}$			
		MN		06 12	11		$\frac{1}{2}$				
		F	1	45	2						
193	" 2	eP	0	26 38	4				3330	Felt at Madang, late German New Guinea.	
		i		26 47	4		+6	-			
		iS		31 44	8		-14	+5			
		eL		34.1	18					(V., Rossi-Forel.)	
		ME ₁		34 54	15			37			
		MN ₁		35 18	16		32				
		MN ₂		36 59	12		12				
		MZ		39 05	12				1		
		ME ₂		40 01	10			23			
		MN ₃		41 17	10		23				
		F	1	35							
194	" 3	e(S?)	7	20 51	6		1				
		eL		26.2	16						
		M		24 22	11		2	2			
		F	7	45							
195	" 4	eL	4	37.1	20						
		MN		36 38	15		$3\frac{1}{2}$				
		ME		38 54	15			5			
		F	4	50							
196	" 6	eS	2	35 56							
		eL		38.5	17						
		ME		38 55	15			12			
		MN		39 43	12		4				
		F	3	25	2						
197	" 9	eP	9	25 02	4		-	1	4050	Origin probably NW of Flores Id.	
		PR ₁		26 42	4		2	1		(Dutch E. Indies.)	
		iS ₁		30 52	8		-19	+12			
		SR ₁		33 36	9		6	2			
				33 57	9		9	10			
		eL		35.1	16					Short wave-lengths.	
		MZ		37 55	6				$1\frac{1}{2}$		
		MN ₁		38 18	8		24				
		ME ₁		38 32	8			7			
		ME ₂		41 33	11			16			
		MN ₂		43 08	12		23				
		F	10	50							

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^\circ 49' 49''$ S.

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INSTRUMENTS:

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW)
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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 ₀	ε : 1	$\frac{r}{T_0^2}$
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Phase.	Time (Greenwich)				Per.	Amplitude			Δ	Remarks.
			h.	m.	s.	s.		A _N	A _E	A _Z		
198	1918 Oct. 11	eP	14	34	00	5	-	$\frac{1}{2}$		16,000 km. Porto Rico.		
		PR ₁	37	25	6	-	$1\frac{1}{2}$					
			38	11	7	-	$2\frac{1}{2}$					
		e(S?)	48	11	12	4	3					
		PS?	49	05	12	3	7					
		e(SR ₃ ?)	56	47	16	5	14					
			57	11	16	5	19					
		eL	15	14.9	36							
		MN ₁)	15	13	36	112	33					
		ME ₁)										
		MN ₂)	19	16	23	12	38					
		ME ₂)										
		MN ₃)	23	50	24	40	46					
		ME ₃)	24	46	21		23					
		ME ₄)	28	07	20							
		MN ₄)	28	43	16	11						
		MZ ₁)	37	02	16			$8\frac{1}{2}$				
		MZ ₂)	45	04	17			10				
		ME ₅)	48	58	16		11					
		MN ₅)	49	57	19	10						
HZ ₃)	50	16	17			10						
CN ₁)												
CE ₁)	16	11	16	20	18	23						
OZ ₁)		11	22	20			13					
CZ ₂)		18	51	18			13					
CE ₂)		19	04	19		16						
CN ₂)		19	21	19	8							
F	18	50						2320				
199	" 13	eP	12	46	03							
		eS	49	53	7	1	$\frac{1}{2}$					
		eL	51.9		16							
		MN ₁)	54	44	14	3						
		ME ₁)	56	12	12		3					
		MN ₂)	58	07	10	3						
F	13	50						3340				
200	" 14	eP	12	06	50							
		ePR ₁	08	02	6	$\frac{1}{2}$	$\frac{1}{2}$					
			08	14	6	1	5					
		eS	11	57	7	-	2					
		iPS	12	12	7	-5	-1					
			12	30	12		7					
		eL	14.6									
		MN	16	01	18	8						
		ME	17	57	20		41					
		MZ	18	56	20			13				
F	13	20										

(Continued on next sheet)

No.

10 (continued)

192

1918, October.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ 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	$e:1$	$\frac{r}{T_0^2}$
A_N				
A_E	(See last sheet)			
A_Z				

No.	Date.	Phase.	Time (Greenwich)			Per.	Amplitude			Δ km.	Remarks.
			h.	m.	s.		A_N μ	A_E μ	A_Z μ		
201	1918 Oct. 15	e?	10	32.5							
		e		35.4							
		eL		38.3	16						
		ME		40 18	11			5			
		MN		40 32	12		7				
		F	11	35							
202	" 16	eP	20	11 47						3770	Probably near Timor?
		PR ₁		13 16	6		2	2			
		iS		17 21	6		-14	11	+2		
				17 26	6		12	18			
		PS		17 35	7		5	6			
		eL		19.2	12						
		MZ		24 16	5				10		Short wave-lengths.
		ME ₁		24 46	5			13			
		MN ₁		25 17	6		25				
		ME ₂		27 53	6			13			
		MN ₂		30 29	7		19				
		F	22	15							
203	" 19	e?	3	54.7							
		e	4	00.3							
		e?		02.6							
		e		06.8							
		eL		19.0	24						
		ME ₁		20 50	20			7			
		MN ₁		26 49	15		3				
		ME ₂		27 17	16			5			
F	6	15									
204	" 20	S?	4	34 28	?						Heavy microseisms phases indistinct.
		eL		38.7	?						
		ME		41 40	?						
		MN		42 23	11		3				
		F	5	20							
205	" 21	e	22	53.9							
		eL		56.0	25						
		ME		56 54	15			5			
		MN		58 15	?						
		F	23	15							
206	" 22	e	8	22.7							
		MN		24 55	9		1				
		ME		26 26	10			2			
207	" 22	F	8	40							
		e?	10	22.3							
		eL		26.8	18						
		ME ₁		27 54	15			7			
		MN ₁		28 26	16		5				
		ME ₂		33 18	10			4			
		MN ₂		36 25	10		4				
F	10	55									

(Continued on next sheet)

No. 10 (continued) 1918, October.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^\circ 49' 49''$ S. $\lambda = 151^\circ 9' 30''$ 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	ε: 1	r T ₀ ²
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Phase.	Time (Greenwich)			Per.	Amplitude			Δ	Remarks.
			h.	m.	s.		A _N	A _E	A _Z		
208	1918 Oct. 24	PR ₁ ?	19	22	17					km.	
		eS		26	18	4	2	1½			
				26	21	4	5	5			
		e(SR ₁ ?)		27	53	7	2	-			
		eL		30	4	15					
		ME		31	30	11		4			
		MN		35	21	13	7				
209	" 25	F	20	15							
		e	19	22	0						
		MN		22	36	10	2				
		ME		23	19	10		2			
210	" 27	F	19	45							
		eP	15	32	38	5	1			2740	Computed azimuth:- 205° (N. 25° E.) φ, 11½° S. λ, 162½° E. Computed time at origin:- h m s 15 26 58
		iP		32	40	5	+9	+4	-1½		
		i		32	53	4	-11	-4	+2		
		iS		37	02	7	-4	+12			
		PS		37	27	11	32	2	11		
		eL		39	3	24					
		MZ		40	26	20			40		
		MN ₁		40	36	20	190				
		ME ₁		41	44	16		80			
		ME ₂		44	23	9		20			
		MN ₂		44	44	12	40				
		F lost in N° 211									
211	" 27	eP	17	13	27	6				3790	
		i		13	39	5	-10	-			
		iPR ₁		14	56	7	-13	-	5		
		iS		19	02	11	+54	-11			
		PS		19	35	11	32	16			
		eL		23	0	30					
		MN ₁ , ME ₁		28	0	14	120	155			
		MN ₂ , ME ₂ , MZ ₁		31	5	11	235	231	105		
		ME ₃ , MZ ₂		35	3	9		160	90		
		MN ₃		38	01	9	145				
		C ₁		44	17	10	100	60			
C ₂		50	48	11	65	74					
212	" 28	F	20	50							
		e?	12	54	4						
		e	13	01	1						
		eL		03	6	16					
		ME ₁		05	23	15		5			
		MN ₁		06	50	12	40				
		ME ₂		10	19	14		8			
F		14	00								

E. F. T. J. 27.

No. 11

1918, November.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^\circ 49' 49''$ S.

 $\lambda = 151^\circ 9' 30''$ E.

 $h = 41.9$ m.

Foundation: Triassic sandstone.

INSTRUMENTS:

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

	V	T_o	$e:1$	$\frac{r}{T_o^2}$
A_N (1)	142	7.7	6.4	0.02
(3)	138	9.9	3.6	0.02
A_N (1)	150	7.1	3.0	0.02
(3)	119	11.2	8.0	0.04
A_Z (2)	94	4.1	4.0	0.06

No.	Date.	Phase.	Time (Greenwich)			Per.	Amplitude			Δ	Remarks.
			h.	m.	s.		A_N	A_E	A_Z		
						μ	μ	μ	km.		
213	1918 Nov. 1	e?	15	37	.7						
		e		40	.0						
		MN	43	10	11	2					
		ME	43	26	11			2			
214	" 3	F	15	55							
		eP	11	18	11	6	1	$\frac{1}{2}$		2100	Computed azimuth:- 337° (S.23°E.) $\phi, 52^\circ$ S. $\lambda, 164^\circ$ E. Computed time at origin:- h m s 11 13 42
		iP	18	12	6	-26	+11	-5			
		iPR ₂	19	26	7	+33	-9				
		eS	21	43	10	21	9				
		iS	21	49	10	-63	-35	-34			
		PS	22	04	10	120	155				
		eL	22	.5	18?						
		MN ₁	23	12	12	155					
		MZ ₁	23	42	11			95			
		ME ₁	23	48	10		175				
		MN ₂	24	33	9	95					
		MZ ₂	24	53	10			65			
		ME ₂	25	07	10		90				
		MN ₃	27	58	11	90					
		ME ₃	28	09	10		60				
		C ₁	29	39	10	60	65				
C ₂	32	49	9	27	55						
CE ₃	39	17	9		33						
CN ₃	43	07	9	25							
C ₄	48	44	9	22	20						
eL rep ₁ ?	14	16	.7	16?							
F	15	20									
215	" 3	eP	18	17	21	5				2170	
			17	30	5	1	$\frac{1}{2}$				
		eS	20	59	11	-	2				
		MN	21	39	12	2					
216	" 3	ME	22	18	11		2				
		F	19	05							
		eP	19	10	09						
		e	12	.2	4	1	-				
		eL	16	.2	14						
MN	21	22	11	2							
ME	22	18	11			2					
F	20	45									

(Continued on next sheet)

Riverview College Observatory, SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

$\phi = 33^\circ 49' 49''$ S.

$\lambda = 151^\circ 9' 30''$ E.

$h = 41.9$ m.

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INSTRUMENTS:

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

	V	T_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
A_N				
A_E	(See last sheet)			
A_V				

No.	Date.	Phase.	Time (Greenwich)				Amplitude			Δ km.	Remarks.
			h.	m.	s.	Per.	A_N μ	A_E μ	A_V μ		
217	1918 Nov. 3	eP	21	50	36	3				2160	
		iP		50	43	6	+8	-3			
		eS		54	13	10	$1\frac{1}{2}$	2			
				54	46	10	4	4			
		eL		54	9	12					
		ME ₁		55	39	11		7			
		MN ₁		55	47	11	3				
		MZ ₁		56	32	11			3		
		K ₂		58	05	9	2	4			
		F	23	45							
218	" 4	e	2	53	9						
		ME		57	14	10		1			
		MN		57	40	12	1				
219	" 5	F	3	10							
		e?	0	48	0						
		e		48	6	2		1			
		i		49	24	2		+6			
				49	57	3	2				
220	" 5	ME		50	18	6		1			
		F	1	00							
		e	1	58	8						
		e	2	00	0	5	-	1			
		eL		02	3	15					
221	" 5	M		03	03	14	8	4			
		F	2	10							
		eP	5	13	02	5	$\frac{1}{2}$	-			
		e(S?)		17	31	8					
				17	40	8					
		eL		20	4	18					
		ME		20	53	16		3			
222	" 5	MN		23	45	12	$\frac{3}{4}$				
		F	5	35							
		e	10	30	5						
		MN		32	41	?					
		ME		32	50	14		3			
223	" 6	F	10	40							
		eP	21	59	15	4	-	1	2300		
		iP		59	20	4	$-1\frac{1}{4}$	$-4\frac{3}{4}$			
		iS	22	03	04	5	-3	$\frac{3}{4}$			
		PS		03	14	5	8	3			
		eL		03	6	10					
		MN		03	50	8	4				
		ME		04	28	8		2			
F	22	25									

(Continued on next sheet)

No. 11 (continued)

1918, November.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ 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	e: 1	$\frac{r}{T_0^2}$
A _x				
A _y	(See last sheet)			
A _z				

No.	Date.	Phase	Time (Greenwich)				Amplitude			Δ	Remarks.
			h.	m.	s.	s.	A _x μ	A _y μ	A _z μ		
224	1918 Nov. 8	eP	4	50	02	4	1	-		8820	Kurils Is.
		iP		50	09	4	-21	-2	+25		
				51	16	4	9	-6			
		iS	5	00	02	8	+16	1	-		
		PS		00	51	18	175	65	20		
				01	16	18			40		
		SR ₁		04	15	10	10	8			
		SR ₂		05	23	16	95	-	23		
		eL		10	7	34					
		ME ₁		11	19	30		533			
		MN ₁		11	49	20	100				
		MN ₂		18	55	20	200				
		MZ ₁		19	27	22			90		
		ME ₂		20	15	20		117			
		MN ₃		23	46	20	200				
		MZ ₂		25	04	17			70		
		ME ₃		25	11	16		90			
		MN ₄		28	49	16	160				
		MZ ₃		32	23	17			55		
		C ₁		39	11	16	40	85			
		C ₂		51	1	15	19	2			
		eW ₂	6	52	35	20					
		MN ₁		56	49	15	3				
		ME ₁		56	57	16		3			
		ME ₂	7	04	28	18		7			
		MN ₂		05	32	20	4				
		MN ₃		08	24	18	7				
MN ₄		15	35	17	6						
F	9	40									
225	" 12	e	22	19	50						
		eL		57	3	17					
		M	23	02	5	16	2	3			
226	" 13	F	23	45							
		eP	21	21	15				2840		
		S	25	46	?						
		eL	28	5	15						
		MN	29	33	14	2					
ME	31	33	14			3					
227	" 14	F	21	55							
		e?	10	44	3						
		eL	49	5	12						
		ME	51	51	8			1			
		MN	52	30	12	1					
F	11	00									

(Continued on next sheet)

No. 11 (continued) 1918¹⁹² November)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

 $\lambda = 151^{\circ} 9' 30''$ 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	e : l	$\frac{r}{T_0^2}$
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Phase.	Time (Greenwich)		Per.	Amplitude			Δ	Remarks.
			h.	m. s.		s.	A _N	A _E		
						μ	μ	μ	km.	
228	1918 Nov. 13	e?	12	59.6						
		e(S?)	13	05 04	6		$\frac{1}{2}$			
				05 13	6	-	$1\frac{1}{2}$			
		eL		09.3	24					
		MN		11 42	15	5				
		ME MZ)		13.4	16		8	7		
229	" 15	F	14	05						
		e(S?)	15	08 51	7	-	4			Short wave-lengths.
		M ₁		10.1	8	3	3			
		ME ₂		12 18	8		5			
		MN ₂		14 18	8	3				
230	" 18	F	15	45						
		eP	18	48 14	3	12	$4\frac{1}{2}$	$6\frac{1}{2}$	3470	Computed azimuth:- 136° (N.44° W.)
		1P		48 16	3	-19	+12	+9		
		i		48 34	3	-46	+45	+30		
		PR ₁		49 49	3 $\frac{1}{2}$	33	30	13		ϕ , 10° S. λ , 130° E.
		iS ₁		53 29	8	-105	+54	10		
		PS		53 59	8	165	70			
		eL		56.0	25					
		MN ₁)		57.4	5	230	155			Computed time at origin:- h m s 18 41 55
		ME ₁)		58 38	6			330		
		MZ ₁		59.9	6	550	415			
		MN ₂)								
		ME ₂)								
		MZ ₂	19	00 09	5			350		Felt at Port Darwin, Timor, Aroe Islands.
		MZ ₃		03 21	5			290		
		ME ₃		03 42	8		530			
		ME ₄		07 29	9		500			E.W. reductions from Seismometer N°3.
		ME ₅		09 11	13		680			
		ME ₆		13 08	11		280			
ME ₇		17 41	11		220			Short wave-lengths.		
C ₁		24 11	9		160					
C ₂		27 48	10		95			Soon after 19h. N°1 & N°3 (N.S) deranged by violence of vi- brations, Re-adjusted about 19h 45m.		
C ₃		34 08	11		80					
C ₄		43 58	9		31					
C ₅		50 14	11	24	24					
F		23 15								

(Continued on next sheet)

No. 11 (continued)

1918 November.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

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Foundation: Triassic sandstone.

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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 ₀	e: 1	$\frac{r}{T_0^2}$
A _x	(See last sheet)			
A _y				
A _z				

No.	Date.	Phase	Time (Greenwich)				Per.	Amplitude			Δ	Remarks.
			h.	m.	s.	s.		A _x μ	A _y μ	A _z μ		
231	1918 Nov. 23	eP	23	04	21	6		3	-		3410	
		iP		04	26	6		-11	+3			
	PR ₁		05	46	6			5				
	iS		09	32	7		-23	+35				
			09	41	7		36	42				
	PS		09	49	8		23	14				
	eL		10.9		20							
	M ₁		12.2		8		97	32	28			
	MN₁		15.59		8		185	180				
	MZ ₂		15	42	7				290			
	ME ₂		15	46	8		185	180				
	MN ₂		15	59	8		340					
	MN ₃		16	21	7		340					
	MN ₄		18	16	12		360					
	CN ₁		22	38	8		87					
	CN ₂		25	17	8		49					
	F		2	10								
232	" 27	eP	1	46	20	6		1	$\frac{1}{2}$		2500	
		iS		50	25	9		-1 $\frac{1}{2}$	-7			
		eL		51.5		14						
		MN ₁)		53.7		9		18	24			
		ME ₁)		54	11	10				3		
		ME ₂		56	39	8			13			
		MN ₂		57	28	8		15				
		F		3	25							
233	" 28	iP	5	26	42	3		-	+1 $\frac{1}{2}$	-1	Perhaps 2 seismo-grams over lapping.	
				26	48	3			3	3		
		e(PR ₁ ?)		27	24	4		1	5			
				27	40	5		3	13			
				28	48	8		3	6			
		S?		30	49	8		3	1			
		PS?		31	11	8		9	2 $\frac{1}{2}$			
		L?		32.2		?						
		M ₁		32.6		9		15	7			
		MN ₂		36	11	12		18				
		ME ₂		36	25	12			8			
F		7	00									

E. F. Pigot

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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 $h = 41.9$ 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_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
$A_n(1)$	162	8.4	6.2	0.02
$A_n(3)$	121	10.0	4.2	0.02
$A_n(1)$	172	8.5	4.0	0.02
$A_n(3)$	133	10.9	8.0	0.04
$A_z(2)$	90	5.1	4.0	0.06

No.	Date.	Phase.	Time (Greenwich)		Per.	Amplitude			Δ km.	Remarks.
			h.	m. s.		A_n μ	A_E μ	A_z μ		
234	1918 Dec. 1	e(S?)	3	07 16	16	-	2½			
		e		12.0	?					
		eL		23.9	36					
		ME ₁		26 33	32			12		
		MN ₁		26 46	32	17				
		MN ₂		32 55	20	5				
		ME ₂		36 10	20			5		
235	" 2	F	4	45						
		e(P?)	10	05 12						
		e(S?)		21 26	9	½	½			
		eL		48.0	34					
		ME ₁		52 13	32			16		
		MN ₁		52 30	32	13				
		ME ₂	11	01 59	30			14		
		MN ₂		05 47	22	12				
		MZ ₁		09 06	20				8	
		MN ₃		09 26	20	28				
		ME ₃		09 51	18			7		
		MN ₄		16 30	16	12				
		ME ₄		16 50	16			4		
		MN ₅		28 26	20	8				
		ME ₅		32 04	22			7		
MN ₆		39 36	16	4						
ME ₆ , MZ ₂		44.1	18			9	9			
236	" 3	F	12	45						
		eP†	17	59 44						
		eS		06 22	8					
		PS		07 03	8	9	9			
		eL		08.2	16					
		MN ₁		08 41	12	13				
		ME ₁		10 06	12			13		
		MN ₂		10 38	12	16				
F		19 20								

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

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 $h = 41.9$ m.

Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW)
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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 ₀	e : l	$\frac{r}{T_0^2}$
A _N				
A _E	(See last sheet)			
A _Z				

No.	Date.	Phase.	Time (Greenwich)			Per.	Amplitude			Δ	Remarks.
			h.	m.	s.		A _N	A _E	A _Z		
						μ .	μ	μ	km.		
237	1918 Dec. 4	e(P?)	12	03	12				12,000	Destructive earth- (108.0)quake in N. Chile (Copiapo).	
		eS	12	50	10	$\frac{3}{4}$	1				
		PS	13	55	20	28	22				
		i	16	54	20	-100	+70				
		e	22	03	26	56	25	42			
			23	17	26	175	75				
		eL	33.	8	46						
		MN ₁ , ME ₁	34.	2	42	250	260				
		MN ₂ , ME ₂	39.	2	23	140	120				
		MZ ₁	39	22	27			153			
		MN ₃ , MZ ₂	43.	5	19	190		210			
		ME ₃	44	04	17		230				
		ME ₄ , MZ ₃	50.	0	16		95	50			
		MN ₄	50	29	15	105					
		ME ₅	55	44	14		85				
		MN ₅ , MZ ₄	56.	7	15	115		81			
ME ₆	13	03	40	14		75					
ME ₇	07	29	14		60						
MN ₆ , MZ ₅	08.	0	16	75		50					
F	16	50									
238	" 4	eS	18	30	20	?					
		eL	34.	3	?						
		M ₁	39.	8	15	2	1 $\frac{1}{2}$				
		MN ₂	50	33	13	1 $\frac{1}{2}$					
		ME ₂	56	41	14		1				
		ME ₃	19	03	42	12	1 $\frac{1}{4}$				
		F	20	45							
239	" 6	eS	9	07.	7	6	1	-	12,000	British Columbia.	
		eSR ₁	15.	7	13	1	1 $\frac{1}{2}$		(112.5°)		
		eL	27.	1	28						
		ME ₁	33	17	20		5				
		MN ₁	35	11	20	6					
		MN ₂ , ME ₂	42.	2	17	7	4				
		MN ₃	49	55	18	6					
		MN ₄	55	03	16	4					
		ME ₃	57	43	16		2 $\frac{1}{2}$				
		F	11	55							
240	" 7	e?	1	19.	1						
		eL	22.	5	14						
		MN	23	33	11	1					
		ME	23	46	12		1 $\frac{1}{2}$				
		F	1	40							

(Continued on next sheet)

No.

12 (continued)

192

1918, December.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 49' 49''$ S.

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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_0	$\epsilon: 1$	$\frac{r}{T_0^2}$
A_N				
A_E				
A_Z				

(See last Sheet)

No.	Date.	Phase	Time (Greenwich)		Per.	Amplitude			Δ	Remarks.
			h.	m. s.		A_N	A_E	A_Z		
						μ	μ	μ	km.	
241	1918 Dec. 9	eP	4	14 32					3140	
		PR ₁		15 39	6	2	-		(28.2°)	
		eS		19 25	7	1	-			
		iS		19 29	7	+7	-			
		PS		20 00	7	5				
		eL		23.1	24					
		MN ₁		23 55	20	16				
		ME ₁		24 04	20			5		
		ME ₂		25 13	15			15		
		MZ		25 47	?					
		MN ₂		26 25	15	12				
242	" 9	F	6	15						
		e(P?)	18	23 56						
		e(PR ₂ ?)		28 39	?					
		MN ₁		48 04	24	5				
		ME ₁		53 51	18		2			
		MN ₂		54 21	16	3				
		ME ₂		19 07 43	17			3		
243	" 9	F	Lost in N° 243							
		e(P?)	19	06 04						
		e(S?)		16 17	8	1½	4			
		MN ₁		44 00	13	2				
		ME ₁		44 09	13		1			
		MN ₂		55 17	15	2				
		ME ₂		56 43	15			2½		
244	" 10	F	21	15						
		e(S?)	10	28 30	8	3	1½			
		eL		31.3	14					
		MN		32 39	12	1				
245	" 10	F	10	45						
		e?	17	13.8	?					
		eL		20.5	18					
		ME		23 26	13			9		
		MN		25 30	12	4				
246	" 14	F	18	00						
		e(S?)	16	05.2						
		eL		09.1	20					
		MN		09 58	19	6				
		ME		11 11	16			2½		
F		16 40								

(Continued on next sheet)

Riverview College Observatory, SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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	V	T_0	$\epsilon : 1$	$\frac{r}{T_0^2}$
A_N				
A_E	(See last sheet)			
A_Z				

No.	Date.	Phase.	Time (Greenwich)			Per.	Amplitude			Δ	Remarks.
			h.	m.	s.		A_N	A_E	A_Z		
247	1918 Dec. 14	eP	18	44	32				2550 (22.9°)		
		iS		48	41	5	-10	+4			
		PS		49	00	7	13	6			
		eL		50.1		12					
		M_1		50.2		9	24	16			
		M_2		55.3		8	12	11			
248	" 16	F	19	55							
		e(P?)	3	20.6							
		eL		46.4		20					
		MN		50	24	16	3				
		ME		54	42	16		2½			
		F	4	05							
249	" 16	e(S?)	21	23.7		10	1				
		eL		29.5		17					
		K_1		31.7		13	2½	4			
		MN_2		36	16	9	2				
		ME_2		38	38	9		2			
		F	22	20							
250	" 18	e?	6	30.9							
		eL		47.7		?					
		MN		49	04	12	1½				
		ME		49	47	18		2			
		F	7	47							
		e?	19	33.2		6	¾	-			
251	" 25	eL		37.0		22					
		MN_1		38	14	15	5				
		ME_1		40	48	15		8			
		MN_2		45	30	10	3				
		ME_2		47	52	13		3			
		F	20	50							
		eP	10	26	16	3	1	-	2½	2440 (22.0°)	
		PR		27	23	4	1½				
		i(PR ₁)		28	20	5	+11	-			
		iS		30	16	7	-5	-16			
		eL		32.4		14					
		ME_1		32	42	10		23			
		MN_1		33	14	8	12			5	
		MZ_1		38	01	10					
ME_2		38	25	8		16					
MN_2		38	57	10		16		5			
ME_3		42	13	12		18					
MN_3		42	59	11							
ME_3		44	23	11			12				
F	11	50									

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

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	V	T_0	$\epsilon : l$	$\frac{r}{T_0^2}$
A_x				
A_y	(See last sheet)			
A_z				

No.	Date.	Phase	Time (Greenwich)			Per.	Amplitude			Δ km.	Remarks.
			h.	m.	s.		A_x μ	A_y μ	A_z μ		
253	1918 Dec. 28	e	4	36.0							
		eL		40.6	12						
		MN	42	26	7	4					
		ME	42	44	8		2				
		F	5	25							
254	" 28	eP	8	14 58	6	$1\frac{1}{4}$	-		2740?		
		e		17 17	6	$1\frac{1}{4}$					
		e(S?)		19 22	7	$2\frac{3}{4}$	$1\frac{3}{4}$				
		eL		20.1	12						
		M		21.8	9	6	5				
255	" 29	F	9	00							
		e	6	21.1	20?					A few long waves.	
256	" 30	eP?	7	18 02							
		eS		23 07	8	1					
		eL		26.5	24						
		M ₁		28.0	20	16	50				
		ME ₁		29 20	16		65				
		MN ₂		29 31	16	32					
		ME ₃		31 50	12		20				
		MN ₃ , MZ		32.1	13	45		13			
257	" 31	F	9	00							
		eP?	2	48 15							
		eS?		53 37	7	1	-				
		eL		56.1	18						
		MN		58 16	14	$2\frac{1}{4}$					
		ME		59 27	12		$1\frac{1}{4}$				
F	3	25									

E.F. Pigot