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)	161	8.3	6.1	0.02
A_E (1)	174	8.3	3.7	0.03
A_Z (2)	90	5.1	3.7	0.05

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
1	Jan. 1	I	eI	3 18.2	16					
			MN	18 36	14	3				
			F	3 50						
2	" 1	I_r	eP	12 12 42	5	-	3		2790	
				13 07	5	-	3			
			eS	17 10	8	1¼	1			
			SR_1	18 54	11	3½	-			
			eL	19.7	16					
			MN_1	22 30	12	19				
			MZ	23 25	16			15		
			ME_1	25 15	14		32			
			MN_2	26 28	11	19				
			ME_2	28 54	12		7			
			F	14 25						
3	" 1	I	e?	15 28.5						
			e	36.3						
			eL	48.7	16					
			MN	50 12	14	7				
			ME	52 20	15		7			
			F	16 30						
4	" 1	I	eP	18 10 49	4	½	-			
			S?	15 11	?					
			eL	18 2	14					
			M	20.2	14	9	1			
			F	18 35						
5	" 4	I	eP	4 38 01	4					Vera Cruz (Mexico)
			e(PS?)	52 06	?					
			eL	5 20.0	20					
			ME	26 50	16		1			
			MN_1	31 21	16	2				
			MN_2	37 56	15	1				
			F	8 25						
5a	" 5	I	eI	5 36.4						
			e	42.3	18	1				
			F	7 30						
6	" 11	I_r	eP	2 58 52					2280	
			eS	3 02 39	8	11	8			
			eL	04.6	14					
			ME	05 44	10		15			
			MN	06 07	10	16				
			F	3 46						

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

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

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920									
7	Jan. 12	I	eP	13 49 43	4	½	-			
			e(S?)	57 34	11	1	¾			
			eL	14 06.4	20					
			MN_1	10 23	16	3				
			ME_1	11 16	14		3			
			M_2	20.3	14	3	3			
			F	15 15						
8	" 13	I	e?	10 59.7						
			eL	11 02.8	18					
			ME	04 14	16		3			
			MN	04 23	16	6				
				09 15	14	4	4			
			F	11 25						
9	" 14	I_r	eP	23 06 05	5	5	1		2740	
			i	06 35	5	-6	$-3\frac{1}{2}$			
			iS	10 29	8	+8	+6			
			PS	10 52	8	8	2			
				11 21	10	18				
			eL	13.3	25					
			MN_1	14 26	20	40				
			ME_1 MN_2	15.3	20	43	35			
			MZ	15 28	18	20		20		
			ME_2	17 13	10		24			
			F	1 00						
10	" 14	I_r	eP	14 44 16	9	½	-		2960	
			eS	48 56	12	2	-			
			PS	49 22	16	24	-			
				51 34	12	2	$5\frac{1}{2}$			
			eL	52.8	20					
			ME_1	55 02	17	23	23			
			MZ	55 20	17			18		
			MN_1	55 31	16	30				
			ME_2	15 00 16	13		11			
			MN_2	04 35	10	12				
			F	16 25						
11	" 15	I	eP?	12 03 26						
			e(L?)	12.0	16					
			ME_1	14 18	14		1			
			MN_1	15 26	14	$1\frac{1}{4}$				
			ME_2	19 26	11		¾			
			MN_2	23 10	12	3				
			F	12 50						

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

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920									
12	Jan. 16	I	i(S?)	15 47 56	7	3½	-			
			i	48 05	7	-4	+3			
			ME	51 22	12		1			
			MN	52 12	11	3				
			F	16 00						
13	" 19	I	e?	5 18.2						
			e(S?)	23.0	10	1½	-			
			eL	26.1	20					
			ME	27 39	16		3			
			MN	29 22	16	6				
			F	6 10						
14	" 20	I_r	eP	1 50 29	3	1	-		2120	Short wave-lengths.
			iS	54 03	6	+4	-5			
			eL	56.4	?					
			MN	2 00 16	6	7				
			ME	01 42	6		2			
			F	2 30						
15	" 21	I?	e?	6 08.6						
			e(S?)	14.7	8	5	2			
			e(L?)	19.0	18					
			i	19 53	12	+42	+15			
			MN	21 16	12	2				
			i	24 13	9	-11	2			
			ME	25 09	12		2			
			F	6 50						
16	" 22	I_r	eP	21 24 25	5	2	½		2660	
			S	28 43	8	1	-			
				28 51	8	6	-			
			eL	30.2	16					
			MN_1	31 43	14	23				
			ME_1	33 35	12		9			
			MN_2	37 13	12	16				
			MZ	37 56	14			7		
			ME_2	40 13	8		16			
			F	22 40						

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
17	Jan. 24	I	eL	15 17.6	?					
			MN	25 33	11	2				
			ME	27 39	12		1			
			F	15 40						
18	" 25	I	e	5 14.1						
			M	21.2	12	1½				
			F	5 35						
19	" 26	I	e?	11 33.4	9	1½				
			eL	36.1	16					
			ME	38 03	12		9			
			MN	38 16	12	6				
			F	11 45						
20	" 27	I	eL	14 00.1	14					
			MN	12 37	10	3				Microseisms obscuring earlier phases
			ME	13 44	11		1½			
			F	14 20						
21	" 29	I_r	eP	21 50 06	4	-	-		2550	
			eS	54 15	7	1	1½			
			eL	55 36	20					
			MN	56 36	16	10				
			ME	57 11	16		5			
			F	22 45						
22	" 30	I_r	eP	19 40 02	3	-	1		3580	
			eS	45 24	8		1¼			
			eL	49.4	26					
			ME	51 10	16		10			
			MN	54 36	9	5				
			F	20 45						
23	" 31	I	e(P?)	1 38 31						
			e(S?)	45 24	9	-	1			
			eL	47.7	18					
			ME	50 02	10		1			
			MN	50 36	10	1½				
			F	2 10						

Edward F. Pigott S.J.

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	160	8.3	6.3	0.02
A_E (1)	173	8.3	4.0	0.03
A_Z (2)	89	5.1	3.9	0.05

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
24	Feb.1	I	eP	13 31 13	4	+5	-2		2200?	
			S?	34 53	8	3	-			
			eL	38.1	16					
			MN_1	38 23	10	8				
			ME_1	40 56	10		5			
			LN_2	42 27	10	6				
			ME_2	43 15	8		4			
			F	14 25						
24a	" 1	I	e	14 55.8						
			MN	15 03 07	14	$3\frac{1}{4}$				
			ME	03 31	14		1			
			F	15 15						

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
25	Feb. 2	III_r	eP	11 28 21	4	1	-		2970	Computed azi-
			iP	28 33	4	+13	-½	-8		muth :
				29 07	5	24	2½			175° (N.5°W.)
			iPR_1	29 47	6	-16	-6	+19		hence,
				30 30	6	31	6			epicentre 7½°S.
				31 25	6	33	10			149° E.
			iS	33 02	9	+210	+12	-70		
			PS	33 32	15	460	80	55		
			eL	36.1	28					Computed time
			LZ_1	39 00	18			900		at origin :-
			LE_1	39 37	13		730			h m s
			LN_1	39 53	14	830				11 22 26
			LE_2	41 32	15		1120			
			LN_2	43 39	11	660				
			LZ_2	44 14	12			415		
			LE_3	44 27	15		1425+			Seismometer No.
			LN_3	47 02	10	695+				1 against stops
			LZ_3	47 27	11			650		several times
			LE_4	47 36	11		680+			during passage
			LN_4	49 18	9	580+				of L waves.
			LZ_4	49 38	10			1020		
			LE_5	49 44	10		500+			
			LE_6	53 51	11		390			
			LN_5	54 12	9	310				
			LN_6	58 19	10	280				
			LE_7	12 01 12	12		380			
			LN_7	01 19	12	340				
			C_1	04.8	12	200	175	55		
			C_2	12.7	12	150	46	50		
			C_3	17.2	12	170	22	43		
			C_4	34.4	12	44	64	27		
			eW_2	14 13.0	17					Well-marked W_2
			LN_1	14 55	14	9				($Lrsp_1$) series.
			LE_1	15 06	14		6			
			LE_2	17 12	15		7			
			LN_2	18 30	13	4				
			LE_3	28 09	20		9			
			LN_3	29 07	17	7				
			eW_3?	49.7	20					W_3 ($Lrop_2$) ser-
			MN	51 14	20	13				ies (?)
			LE	52 09	20		5			
			F	16 00						

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
26	Feb. 2	I	e (P?)	16 25 02	5	10	-			
			e (S?)	30 06	?					
			eL	34.4	17					
			LZ	35 50	14			4		
			LE	36 52	14		4			
			MN	37 38	16	8				
			F (lost in No. 27)							
27	" 2	I	S?	16 54 02	12	4	2			
			PS	54 27	12	?	1½			
			eL	57.6	20					
			ME_1	17 00 08	16		16			
			MN_1	01 07	16	16				
			MZ	04 10	12		1			
			MN_2	07 18	10	6				
			ME_2	11 02	10		7			
			F (lost in No 28)							
28	" 2	I	e	18 06.?						
			M	13.0	11	2	1½			
			F	18 25						
29	" 2	I	e	18 52.6						
			eL	19 01.2	18					
			MN_1	07 15	17	4				
			ME	07 02	12		3½			
			MN_2	10 42	12	2				
			F	19 35						
30	" 2	I	eL	20 56.?	20					
			MN_1	58 08	18	5				
			ME	58 36	16		2a			
			MN_2	21 08 37	12	3				
			F	21 20						
30a	" 3	I	e	0 32.6						
			ME	32 38	15		1			
			MN	40 37	12	1½				
			F (lost in No. 31)							
31	" 3	I	eL	0 49.6	18					
			ME_1	50 20	15		3			
			MN_1	53 02	12	2				
			ME_2	56 38	12		2			
			MN_2	58 10	11	6				
			~~Exxxxxxxxx~~							
			F	1 15						
32	" 3	I	e	1 39.8	4	-	1			
			eL	43.8	16					
			ME	45 15	13		2			
			MN	52 15	11	1½				
			F	2 05						

(Continued on next sheet)

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

No.	Date. 1920	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
33	Feb. 3	I	e?	h 30.1s.	s.	μ	μ	μ	km.	
			ME	45 02	12		½			
			MN	48 25	12	1				
			F	3 00						
34	" 3	I	e	4 14.7						
			MN	27 10	13	2				
			ME	27 48	13		1½			
			F	4 40						
35	" 3	I	e	6 18.1						
			ME	28 01	12		2			
			MN	29 06	12	3				
			F	(Lost in No.	36					
36	" 3	I_r	eP	6 42 33					3090	
			eS	47 23	12	3	-			
			eL	51.1	18					
			MN_1	52 31	16	10				
			ME_1	54 00	12		9			
			MN_2	56 08	14	7				
			ME_2	58 31	12		3½			
			MN_3	7 00 02	11	6				
			MZ	01 46	11			2¼		
			F	7 40						
37	" 3	I	e	10 39.4						
			MN	44 35	13	1				
			ME	47 11	?					
			F	10 55						
38	" 3	I_r	eP	14 58 52	7	½	-		3050	
			eS	15 03 39	12	2				
		e	(SR_2?)	06 06 45	13	4	-			
				07 15	13	14	-			
			eL	07.5	18					
			ME_1	09 59	12		10			
			MZ_1	11 20	15			17		
			MN_1	11 32	15	36				
			ME_2	15 04	12		3½			
			MN_2							
			MZ_2	19.2	12	24		10		
			F	16 25						
39	" 3	I	e	19 22.6						
40	" 3	I_r	eP	19 49 02	?					A few long waves.
			eS	53 42	11	2¾	-		2960	
			eL	57.0	17					
			MN_1	20 01 10	12	11				
			ME_1	02 02	14		16			
			MZ	08 55	11			4		
			MN_2	09 02	10	11				
			ME_2	10 02	10		5			
			F	21 00						

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
41	Feb. 3	I	e	21 25.3						
			MN	30 43	13		¾			
			LN	32 36	13	2				
			F	21 55						
42	" 4	I	e(P?)	21 42 09						
			eL	50.4	14					
			MN	50 42	14	1				
			ME	51 14	11		1½			
			F	22 20						
43	" 5	I	e(L?)	18 45.2	?					Heavy micro-seisms.
			ME	50 01	12		2			
			MN	54 53	12	1				
			F	19 30						
44	" 6	I	e?	9 10.6						do. do.
			eS	14 52	12	2	-			
			eL	18.9	16					
			ME_1	21 09	11		6			
			MN_1	21 34	12	5				
			ME_2	27 45	10		3			
			MN_2 MZ	29.1	10	5		3		
			F	10 05						
45	" 7	I_r	eP	15 30 30	8	1	½		2820	
			iS	35 00	8	+8	-2			
			PS	35 22	8	9	4			
			eL	38.6	18					
			MN_1	40 38	12	18				
			ME_1	40 51	12		13			
			ME_2	43 51	10		8			
			MZ	44 42	12			37		
			MN_2	44 58	12	16				
			F	(lost in No. 46)						
46	" 7	I	eP	15 50 00	?					
			eL	56.8	15					
			LN_1	58 44	16	38				
			LE	16 01 08	10		17			
			MN_2	07 04	11	30				
			MZ	07 28	11			17		
			ME_2	09 00	10		11			
			F	17 25						
47	" 8	I	e	2 25.3						
			e?	28.2						
			eL	31.6	3					
			LN_1	34 07	10	3				
			LN_2 ME	36.5	12	4	3			
			F	3 30						

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
48	Feb. 8	I_r	eP	5 31 09	4	½	-		3600	
			eS	36 33	11	1	1½			
				36 41	12	2	5			
			SN_1	39 33	12	2	2			
			eL	40.9	20					
			ME_1	44 05	18		33			
			MZ	44 12	18			13		
			MN_1	44 16	18	25				
			ME_2	50 05	12		13			
			MN_2	51 05	12	12				
			F	7 00						
49	" 8	I	e(L?)	20 58.3	16					
			LN_1	21 07 06	12	1½				
			ME_1	09 46	11		½			
			ME_2	30 13	12		½			
			LN_2	31 29	13	1				
			F	21 50						
50	" 9	I_r	eP	2 36 48	¼	1	-		3180	
			eS	41 44	7	1	½			
			eL	44.7	15					
			ME_1	48.27	11		7			
			LN_1	49 43	14	9				
			LN_2)	54 20	12	24		8		
			MZ							
			ME_2	54 36	12		10			
			F	4 45						
51	" 9	I	e	13 14.5						
			eL?	23.6	16					
			LN_1	27 26	12	1½				
			LN_2	33 12	11	2				
			LE	34 07	11		1½			
			F	14 00						
52	" 9	I_r	eP	19 09 15					3540	
			eS	14 35	9	1	-			
			eL	18.7	16					
			LE_1	24 23	16		20			
			LN_1	25 56	15	16				
			ME_2	27 11	11		18			
			LE_3	32 19	12		10			
			MZ	34 13	11			7		
			LN_2	34 27	11	18				
			F	21 35						

(Continued on next sheet)

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SYDNEY, N.S.W.

Seismological Bulletin.

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

INSTRUMENTS:

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

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
53	Feb. 10	I_r	eP	9 16 20	4	1	½		2770	
			eS	22 46	9	2	½			
			PS	23 17	9	12	10			
			eL	24.7	16					
			M_1	28.7	12	50	13			
			MZ	30 51	12			8		
			MN_2	31 43	12	34				
			ME_2	33 22	12		10			
			F	(lost in No 54)						
54	" 10	I_r	eP	10 08 05	?				2790?	
			S?	12 33	7	½	½			
			eL	15.5	15					
			MZ	18 03	12			5		
			MN	18 34	12	18				
			ME	19 04	12		10			
			F	12 15						
55	" 10	I	e	16 28.6	17					A few long waves
56	" 11	I_r	eP	22 27 31	4	-	½		12,500?	
			e(S?)	40 19	10	-	1			
			eL	23 17.0	25					
			M_1	19.0	22	3	7			
			ME_2	23 14	16		3			
			MN_2 / ME_3	32.1	17	3	4			
			MN_3	46 27	20	3				
			MN_4	49 49	17	3				
			F	0 55						
7	" 11	I	e	7 28.8						
			eL	33.8	18					
			ME	35 21	15		4			
			MN	36 44	12	2				
			F	8 22						
	" 12	I_r	eP	8 04 02	5	-	½		30000	
			eS	08 45	6	½	-			
			ME	12 25	14		1			
			MN	13 15	12	2				
			F	8 40						
	" 12	I	eP?	19 04 07						
			eS?	09 07						
			e(SR_1?)	12 07	13	2	1			
			eL	14.3	16					
			ME	17 45	12		2½			
			MN	18 30	12	2				
			F	20 05						

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$\phi = 33° 49' 49''$ 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.
	1920			h. m. s.	s.	μ	μ	μ	km.	
60	Feb. 13	I	e	8 14.6	4	-	1			
			e	16.4	7	½	-			
			eL	19.0	14					
			MN	20 57	10	1½				
			ME	21 07	10		1			
			F	9 00						
61	" 13	I	e	12 18.3	18					A few long waves.
62	" 13	I	e	12 44.1	?					
			e	46.3	10	1	-			
			F	13 05						
63	" 15	I_r	eP	15 31 03					2890	
			eS	35 38	10	1	½			
			SR_1	38 06	?					
			eL	39.1	13					
			MN_1	40 50	12	2				
			MN_2	44 02	11	2				
			ME	44 38	9		1			
			F	16 55						
64	" 16	I	eP	6 40 38						
			eL	59.4	18					
			M	7 01.1	15	3	2			
			F	7 40						
65	" 16	I	e?	13 13 22						
			eL	22.8	14					
			MN	23 23	13	1				
			ME	23 83	12		2			
			F	13 45						
66	" 17	I	e	4 04.0	6	-	½			
			eL	11.3	14					
			ME	11 59	12		1½			
			MN	20 00	12	1½				
			F	4 25						
67	" 18	I_r	eP?	20 01 40					4280?	
			eS	07 43	15	2	-			
			PS	08 13	15	3	-			
			SR_1	10 21	?					
			eL	11.5	20					
			ME_1	13 13	14		10			
			MN_1	13 46	14	15				
			ME_2	14 23	12		13			
			MN_2	18 19	12	9				
			F	21 40						
68	" 22	I_u	eP	17 46 32					9300	
			eS	56 57	8	-	1			
				57 05	8	3	2			
			eL	18 10.5	18					

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INSTRUMENTS:

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

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
68	Feb. 22		ME	18 13 10	16		2			
contin.)			MN	16 15	18	3				
			F	19 00						
69	" 26	I_u	eP	22 48 30	5	1	-		5200?	Heavy micro seisms.
			i(S?)	55 22	7	+5	+1			
			e(SR1?)	58 17	9	3	1			
			eL	23 06 00	20					
			ME	08 13	20		8			
			MN	08 38	20	10				
			F	00 05						
70	" 26	I	e?	1 38.6						
			e(S?)	43 56	8	1	2			
			eL	50.8	18					
			MN	54 26	13	4				
			ME	56 16	12		2			
			F	2 30						
71	" 27	I_r	eP	7 15 15	6	½	½		2800	Strong micro seisms
			eS	19 43	8	3	-			
				19 52	8	14	8			
			eL	21.4	18					
			MN	22 55	14	16				
			ME	23 35	15	16	16			
			F	8 00						
72	" 27	I_r	eP	9 58 04					3810	
			eS	10 03 40	8	1	½			
			eL	08.1	14					
			MN	10 02	12	2				
			ME	10 36	12	1				
			F	(lost in No. 73)						
73	" 27	I_r	eP	10 40 00					3430	
			eS	43 59	8	2	1			
				44 01	8	6	4			
			eL	45.6	19					
			MN	46 56	15	7				
			ME	47 35	16		12			
			F	11 30						
74	" 28	I	e(P?)	19 15 02						
			eL	34.3	23					
			MN	35 58	18	3				
			ME	36 45	18		2			
			F	19 50						
75	" 28	I	eL	20 48.8	15					
			MN	49 49	12	2				
			ME	51 30	15		1			
			F	21 25						

Edward F. Pigot S.J.

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INSTRUMENTS:

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

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A(1)	159	8.4	6.6	0.02
A(1)	172	8.3	4.3	0.03
A(2)	89	5.0	4.1	0.05

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
76	March 1	I	e?	11 03.3	4	-	1			
			eL	10.1	20					
			MN	12 56	12	10				
			ME	13 19	15		4			
			MZ	13 27	15			4		
			F	12 05						
77	" 3	I_r	eP	10 57 25	2, 4?	1	½		1740?	Very short wave-lengths
			e(S?)	11 00 25	5	½	2			
			L?	01.4	8					
			MZ	02 06	?					
			MN, ME	02.7	8	7	6			
			F	10 25						
78	" 3	I	e?	12 22.9	5	½	-			
			e	27.4	8	-	½			
			eL	29.7	16					
			MN	32 48	12	2				
			ME	33 11	11		1½			
			F	13 00						
79	" 6	I	eP	17 07 45	4	½	½			
			eL	16.3	20					
			ME	17 30	16		2			
			MN	18 06	12	1½				
			F	17 40						
80	" 10	I	e?	11 06.3						
			ME	11 42	10		½			
			MN	12 42	10	1				
			F	11 25						
81	" 11	I_r	eP	5 47 11	6	½	½		2350	
			eS	51 04	8	-	1			
			eL	52.6	19					
			ME	53 40	16		3			
			MN	54 16	13	2				
			F	6 25						
82	" 11	II_r	eP	11 51 38	7	1	½		2230	
			iS	55 21	8	-	+5			
			PS	55 33	8	12	11	3		
			eL	56.6	22					
			M_1	57.7	16	50	40			
			ME_2	58 29	14		65			
			MN_2, MZ	59.6	8	45		7		
			ME_3	12 00 21	18		30			
			ME_4	02 21	8		30			
			ME_5	03 53	7		30			
			MN_3	04 13	7	30				
			F	13 35						

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

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

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920									
83	March 11	I_r	eP	18 38 46	4	½	-		[illegible]	
			eS	43 03	10	1½	-			
			eL	46.0	20					
			M	48.9	16	4	3			
			F	19 30						
84	" 12	I	e?	2 47.5						
			eL	51.6	18					
			ME	51 42	16		2			
			MN	51 49	16	3				
			F	3 40						
85	" 12	I	e	15 38.6						
			e(L?)	44.5	14					
			M	47.6	14	5	4			
			F	16 25						
86	" 13	I	e(P?)	4 07.6						
			e(S?)	14 18	6	-	1			
			eL	21.3	16					
			MN	25 24	12	5				
			ME	26 19	16		9			
			F	5 25						
87	" 13	I	e(S?)	5 36.7	10	1	-			
			MN	41 25	19	3				
			ME	41 57	17		2			
			F	6 00						
88	" 13	I_r	eP	8 35 44	2 4	-	[illegible]		[illegible]	
			e(S?)	38 56	?					
			eL	39.7	10					
			MN	43 19	8	1				
			ME	44 19	8		1			
			F	9 05						
89	" 14	I	e(S?)	9 30 30	8	1	-			
			eL	38.9	14					
			ME	40 37	12		1			
			MN	41 27	11	2				
			F	11 05						
90	" 15	I_r	eP	12 11 03	?				2660	Heavy micro-seisms
			iS	15 22	7	-6	4			
			eL	17.1	20					
			MN_1	17 24	18	40				
			MZ	18 56	18			14		
			ME_1	19 21	18		32			
			MN_2	23 16	12	19				
			ME_2	27 26	12		12			
			F	13 10						

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

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920									
91	March 15	I	e(S?)	17 12 12	?					Heavy micro-seisms.
			eL	14.5	19					
			ME	15 21	18		7			
			MN	15 33	18	13				
			F	17 40						
92	" 17	I	eP	19 00 16	4	2	1½			
			eL	09.0	16					
			MN_1	11 21	12	6				
			ME	11 33	12		2			
			MN_2	14 22	10	8				
			F	19 45						
93	" 19	I	e	6 36.8	14					A few long waves.
94	" 20	IIu	eP	18 43 42	?				8220	Strong micro-seisms.
			PS	54 30	15	14	19			
			SR_2	58 13	12	3	7			
			eL	19 04.3	25					
			M_1	07.9	25	48	46			
			MN_2	13 34	16	32				
			MZ	14 16	16			27		
			ME_2	14 28	16		45			
			C	28.8	12	3	4			
			F	21 40						
95	" 21	I	e(L?)	21 01.1	16					
			ME	03 54	12		2			
			MN	04 38	11	5				
			F	21 20						
96	" 22	I	e(S?)	23 31 53	?					
			MN_1	35 43	?					
			ME	40 14	12		2			
			MN_2	41 35	12	5				
			F	0 15						
97	" 22	I_r	eP	1 44 34	5	1	-		2940	
			eS	49 13	10	2	1			
			SR_1	50 46	10	5	2			
			eL	52.3	16					
			MN_1	53 55	12	6				
			ME_1	54 08	12		5			
			ME_2	57 18	11		4			
			MN_2	58 22	12	9				
			F	2 05						

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

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

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920									
98	March 22	Ir	eP	20 07 55	3	-	½		3410	
			eS	13 06	8	3	3			
			PS	13 35	8	1½	3			
			eL	14.7	20					
			MN1	16 22	18	46				
			ME1	18 52	14		30			
			MN2	19 10	12	29				
			MZ	19 19	14			12		
			ME2 MN3	23.3	11	21	14			
			ME3	28 11	12		14			
			MN4	28 21	11	21				
			F	22 00						
99	" 24	I	e	6 10.9						A few long waves.
00	" 26	I	e	20 25.1	16					" " "
01	" 28	I	e	11 50.3	18					" " "
02	" 29	I	e	5 56.0						
			MN	6 02 13	16	2				
			ME	02 52	18		2			
			F	6 20						
03	" 29	I	e(L?)	7 06.5	16					
			MN1	10 41	16	2				
			MN2	17 36	18	3				
			ME	18 08	?					
			F	7 45						
	" 30	Ir	eP	8 56 15	5	-	1		3340	
			eS	9 01 22	8	½	-			
				01 32	8	3	½			
			eL	04.9	14					
			MN	05 45	10	1				
			ME	19 05	10		½			
			F	9 30						
	" 30	I	e	16 00.2	17					A few long waves.
	" 30	I	e?	19 14.1						
			M	20.7	?					
			F	19 30						

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

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
$A_N(1)$	164	8.2	6.0	0.019
$A_E(1)$	174	8.2	3.9	0.025
$A_Z(2)$	91	5.1	3.1	0.06

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920									
107	Mar. 31) Apr. 1)	I	e(P?)	23 46 51						
			e(S?)	51 36	9	1	-			
			eL	55.9	16					
			ME	48 05	12		5			
			MN	59 20	11	4				
			F	0 30						
108	" 2	II_r	eP	1 10 34	?				2700	
			eS	14 55	10	1	-			
			eL	17.5	?					
			MN_1							
			ME_1)	20,8	16	30	47			
			MZ_1	21 53	16			15		
			MN_2	22 16	14	54				
			ME_2	23 20	11		62			
			MZ_2	25 53	13			12		
			M_3	26.1	12	34	17			
			ME_4	30 24	10		21			
			MN_4	32 12	10	21				
			F	3 05						
109	" 2	I	eP?	15 18 59						
			e(S?)	25 04	10	¾	-			
			eL	30.7	18					
			ME	34 08	15		¾			
			MN	35 29	19	9				
			F	16 40						
110	" 5	I_r	eP	15 59·22					2210?	
			e(S?)	16 03 03	?					
			e(L?)	04.9	16					
			ME_1)							
			MN_1	08.5	20	43	27			
			ME_2	11 00	13		20			
			MN_2	12 16	14	30				
			MZ	14 03	10			5		
			MN_3	14 12	10	16				
			ME_3	14 37	10		13			
			F	17 10						
	" 6	I_r	eP	19 07 06	4	½	-		3770	
			eS	12 40	10	3	2			
			PS	13 02	10	7	3			
			eL	15.5	22					
			MN_1							
			ME_1)	16.6	17	36	23			
			ME_2	17 45	16		80			
			MZ	18 20	16			15		
			MN_2	18 54	16	28				
			F	20 35						

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$\phi = 33° 49' 49''$ 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. 1920	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
112	April 6	I	e	21h. 20m. 4 s.	s.	μ	μ	μ	km.	
			eL	21.5	16					
			MN	23 35	9	1	1			
			ME)							
			MZ)	23.8	9		1	½		
			F	21 35						
113	" 8	I	e?	14 04.9						
			eL	07.3	16					
			MN	08 03	14	2				
			ME	08 56	16		2			
			F	14 20						
114	" 8	I_r	eP	14 53 15					1160	
			eS	55 19						
			eL	56.1	16					
			MN	56 45	14	2				
			ME	59 23	11		3			
			F	15 10						
115	" 8	I	e(P?)	22 11 53						
			e	16.6						
			eL	42.5	25					
			MN	48 00	?					
			F	23 15						
116	" 9	I	e	19 45.2	17					A few long waves.
117	(" 11	I	eL	19 57.4	17					
			MN	20 00 11	12	6				
			ME	01 27	14		2			
			F	20 25						
118	" 11,	I_u	eP	23 16 31	4	½	-		8200	
	\ 12)		eS	26 01	8	½	1			
			eL	37.5	30					
			ME	42 07	15		3			
			MN	48 24	19	4				
			F	0 35						
119	" 25	I	e?	16 57.1						
			eS	59.1	6	1	1			
			MN)	17 03.4	6	6	7			
			ME)							
			MZ	03 53	6		1			
			F	17 40						
120	" 29	I	eP	16 27 11	2					Felt slightly at Deniliquin (N. Austn.)
			ME	31 46	5		4			
			MN	32 04	5	9				
			F	16 55						
121	" 30	I	e	2 02.1	16					A few long waves.

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	$\epsilon : 1$	$\frac{r}{T_o^2}$
$A_N(1)$	161	8.3	5.1	0.018
$A_E(1)$	173	8.1	3.3	0.03
$A_Z(2)$	95	5.0	3.0	0.06

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
122	May 4	I	eP	11 55 06					2070?	
			e(S?)	58 35						
			eL	12 00.9	15					
			MN	02 16	12	1½				
			ME_1	03 10	12		1¼			
			ME_2	07 14	9		2			
			F	12 35						
123	" 5	I_r	eP	8 34 54	4	-	½		2620	
			LS	43 09	7	+5	-3			
			e(SR_2?)	45 07	12	15	2			
			eL	45.9	16					
			i	46 51	8	+5	+4			
			ME							
			MN_1)	49.0	8	5	6			
			MN_2	50 59	10	1				
			MZ	9 01 51	14			3		
			F	9 30						
124	" 6	I	eP	21 57 14	?					Most phases uncertain (alterations in progress in seismometer-vault).
			MN	22 03.7	?					
125	" 7	I_u	eP	5 49 14	4	½			5080	
			eS	56 01	10	6	2			
			PS	56 28	10	11	3			
			SR_2?	59 41	11	26	30			
			eL	6 01 18	20					
			ME_1	05 44	15		16			
			MN_1	06 49	15	15				
			ME_2	08 23	15		30			
			MN_2	09 14	16	18				
			ME_3	12 06	16		30			
			MN_3							
			MZ)	12.6	16	32		2		
			ME_4	15 23	14		17			
			MN_4	17 27	14	13				
			F	7 35						

(Continued on next sheet)

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INSTRUMENTS:

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

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
126	May 7	III$_r$	eP	21 36 37	5	3	-		2920	Computed azim. 164° (N.16°W.)
			iP	36 45	5	-16	+4	+5		φ, 8½S.
				37 19	5	26	6	11		λ, 144°E.
			S	41 14	8	13	6	4		Computed time at origin :-
				41 32	8	92	41	20		h m s
			eL	43.3	22					21 30 42
			M_1	44.3	19	400	420	155		
			ME_2	46 42	11	240	240			
			MN_2	46 54	12	175				
			MZ_2	47 49	12			100		
			ME_3	49 24	10		60			
			MN_3 / ME_4	51.3	9	100	107			
			MZ_3	52 38	15			27		
			ME_5	52 54	8		90			
			MN_4	54 12	8	60				
			MZ_4	55 51	8			9		
			MN_5	57 22	9	67				
			ME_6	58 20	8		66			
			MN_6	59 35	8	68				
			M_7	22 01.2	8	62	50			
			C_1	08.3	10	40	35			
			C_2	13.1	10	37	20			
			C_3	19.3	10	16	12			
			F	lost in	No	127				
127	" 8	I$_r$	eP	0 05 13	6	1	½		2770	
			eS	09 39	8	3	1			
				09 51	8	8	4			
			PS	10 11	8	8	3			
			eL	12.9	18					
			M_1	15.3	11	9	25			
			ME_2	16 59	8		14			
			MN_2	17 44	8	6				
			ME_3	18 18	8		5			
			F	?						
128	" 9	I$_r$	eP	8 05 34					2660	
			eS	09 [illegible]	7	1	-			
			eL	12.3	16					EW component on No.1 temporarily deranged.
			MN	13 59	13	8				
			F	9 05						

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INSTRUMENTS:

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

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
129	May 10	II_r	iP	18 56 12	3	-3	+2	+4	3290	
				56 16	3	6	3	4		
			iPR_1	57 37	5	+23	-11	4		
			iS	19 01 16	7	2	-16			
			i	01 21	7	-20	+19			
			PS	01 31	7	17	14			Felt at Darwin (N.Australia)
			iSR_2	03 55	9	+32	+24			
			eL	04.6	13					
			MN_1 / ME_1	06.2	8	32	27			Computed time of origin :- 18h.49m.52s.
			MZ_1	06 39	7			24		
			MN_2	08 14	7	46				
			ME_2	08.34	7		42			
			MZ_2	0927	6			18		
			MN_3	09 57	7	54				Very short wave-lengths.
			ME_3	11 25	8		42			
			ME_4	14 37	9		46			
			F	21 00						
130	" 11	I_u	e(P?)	2 53 47					5600?	
			e(S?)	3 01 03	?					
			e(L?)	10.7	20					
			E	13.1	14	1	1			
			F	4 10						
131	" 12	I	e	18 43.9	5	1	-			
			eL	50.6	22					
			MN	52 06	18	4				
			ME	53 15	16		3			
			F	19 20						
132	" 13	III_r	eP	1 54 54	4				3360	
			iS	2 00 02	8	-10	-12			
			iSR_1	02 08	8	-28	+18			
			SR_2	02 50	9	24	17			
			eL	03 26	28					
			M_1	05.4	25	355	610	65		
			MN_2 / ME_2	06.8	18	290	1210			
			MN_3 / MZ_2	08.2	12	240		70		
			ME_3	08 30	13		380			
			MZ_3	08 34	13			230		
			MN_4 / ME_4	09.8	13	370	530			
			MZ_4	11 25	12			110		
			MN_5	11 33	12	255				

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

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
132 (contin.)	May 13		ME_5	2 13 02	12		260			
			MN_6	14 08	11	120				
			ME_6	18 02	10		80			
			C_1	21.8	9	33	50			
			C2	24.7	9	35	35			
			F	5 05						
133	" 18	I	eP	11 20 36	4					
			eL	25.4	15					
			M	26.8	11	2	1			
			F	11 50						
134	" 19	I_r	eP	3 24 18					1890	
			eS	27 31	8	2	-			
			eL	31.2	17					
			MN_1	32 41	15	13				
			ME_1	33 08	14		11			
			MN2							
			ME_2	34.1	15	10	11			
			ME_3	36 10	17		17			
			MN_3	37 14	16	14				
			F	4 30						
134a	" 19	I	e(PR_1)	12 57 21	4	2	-			
			eS	13 00 44	?					
			eL	06.4	20					
			MN	06 48	18	8				
			ME_1	09 05	20		6			
			ME_2	12 31	16		6			
			F	13 50						
135	" 20	II_r	iP	7 31 30	4	-5	-4	+1½	2730	Computed azim. 218½° (N.38½°E)
				31 54	4	13	12			
			iS	35 53	7	-7	-7			
			PS	36 27	7	10	20			φ, 13½°S.
				36 43	7	41	11			λ, 167° E.
			eL	37.2	25					
			MZ_1	38 32	25			140		Computed time at origin :- h m s 7 25 51
			MN_1 / ME_1	38.8	21	250	260			
			MZ_2	39 44	19			140		
			MN_2 / ME_2	40.5	15	90	90			
			MN_3	42 41	12	33				
			ME_3	44 17	13		50			
			C	48.1	12	13	18			
			F	9 30						
136	" 22	I	e(P?)	17 06 36	?					Probably same origin as No. 137.
			e(S?)	09 10	8	1				
			F	Lost in No.137.						

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INSTRUMENTS:

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

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
137	May 22	I_r	eP	17 12 10	4	2	½		1500	
			iS	14 47	9	-5	-10			
				15 20	8	8	14			
			eL	15.5	17					
			M	18.1	15	27	18			
			F	17 40						
138	" 23	I_r	eP	17 04 10	4	2	1		2480	
			S	06 45	6	1½	-			
			eL	07.0	11					
			MN	08 01	9	1				
			F	18 20						
139	" 23	I_r	eP	20 19 44					3430	
			eS	24 57	9	1	½			
			eL	28.4	16					
			ME	29 27	15		2			
			MN	30 57	13	2				
			F	20 55						
140	" 26	I_r	eP	12 29 03	5	-	1		4500	
			PR_1	30 36	6	-	1			
			eS	34 53	7	2	1¾			
			PS	35 23	7	2	1			Computed time at origin :- h m s 12 21 05
			eL	37.5	21					
			MN_1	38 51	17	11				
			ME_1	41 12	17		13			
			MZ	42 00	15			4		
			MN_2 ME_2)	42.3	15	17	9			
			MN_3 ME_3)	49.3	13	8	7			
			F	13 50						
141	" 27	I_r	iP	6 01 33	6	-3	-9	+1	1660	Computed azim. 247½° (N.67½°E)
				01 39	6	7	11			
			eS	04 25	7	5	¾			
			eL	05.0	10					φ, 27½°S. λ, 166°E
			M	05.1	10	6	4			
			F	Lost in No.141a.						Short wave-lengths.
141a	" 27	I	eL	6 10.6	13					
			MN_1	11 13	9	6				
			MN_2	14 14	9	4				
			ME	17 08	10		1¾			
			F	6 55						
142	" 29	I	e	6 38.5			A few long waves.			

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INSTRUMENTS:

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

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	157	8.4	5.2	0.018
A_E (1)	173	8.2	3.7	0.025
A_Z (2)	91	5.0	2.8	0.06

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920									
143	June 4	I	e	2 34.6						
			eL	41.2	17					
			MN	44 03	13	2				
			ME	46 46	11		¾			
			F	3 00						
144	" 5	II_U	eP	4 32 04	4	1	½		7130	Computed azim. 182½° (N.17½°W)
			iP	32 08	4	+15	-5	-10		
			iPR_1	34 48	4	-11	+14			
			iS	40 40	8	-32	-			φ, 28° N.
			i	40 48	8	-31	-11			λ, 133° E.
			PS	41 02	8	41	18	3		
			eL	47.5	30					Computed time at origin :-
			MN_1	52 30	24	180				h m s
			ME_1	53 06	24		330			4 21 26
			ME_2	55 42	22		114			
			MZ_1	56 18	22			50		
			MN_2	57 24	21	140				
			MZ_2	57 58	22			60		
			ME_3	59 29	19		120			
			MN_3	5 01 21	19	100				
			MZ_3	02 56	18			54		
			MN_4	04 51	17	80				
			ME_4	05 21	17		70			
			C	20.2	16	22	16			
	2 waves (Irep.1)		eW_2	6 55.1	24					
			ME_1	58 12	17		4			
			MN_1	7 01 00	21	4				
			MN_2	04 51	19	4				
			ME_2	09 27	17		3			
			MN_3	12 27	19	8				
			F	7 55						
145	" 6	I_r	e(P?)	11 25 11					3240?	
			eS	30 11						
			eL	32.6	16					
			ME	33 58	13		3			
			MN	34 28	13	5				
			F	12 00						

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INSTRUMENTS:

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

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

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1920			h. m. s.	s.	μ	μ	μ	km.	
46	June 9	II_r	eP	11 37 33	3	½	½		3940	Felt on island of Amboina (Moluccas ?)
			i	37 44	3	+4	-5			
			PR_1	39 16	4	5	5			
			iS	43 17	6	+9	-12			
			PS	43 27	6	23	15			
			eL	46.7	25					Computed time at origin: h m s 11 30 16
			MN_1	51 26	9	29				
			ME_1	51 39	10		100			
			ME_2	53 44	9		90			
			MN_2	53 57	9	80				
			MN_3	57 24	9	48				No.2 seismometer (Z) out of order.
			ME_3	58 57	11		64			
			C	12 10.2	9	13	12			
			F	13 30						
47	" 9	I	eL	19 01.7	16					
			ME	02 12	15		3			
			MN	03 42	17	2				
			F	19 15						
48	" 12	I_r	eP	15 31 05	6	½	2		2350	
				31 18	6	2	4			
			eS	34 58	8	7	1			
			PS	35 19	8	11	1			
			eL	36.1	22					
			ME	38 14	17		26			
			MN	38 28	14	42				
			F	16 50						
49	" 20	I	e(P?)	0 31 03						
			eL	39.6	12					
			M	40.3	14	3	1			
			F	0 50						
50	" 20	I	e	8 26.5	15			A few long waves.		
51	" 26	I	e	13 26.3				" " " "		

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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	$\epsilon : 1$	$\frac{r}{T^3}$
A_N (1)	158	8.3	4.3	0.02
A_E (1)	168	8.3	3.1	0.02
A_Z (2)	93	5.0	2.4	0.06

No.	Date.	Char.	Phase.	Time (Greenwich) h m s	Per.	Amplitude. A_N	A_E	A_Z	Δ	Remarks.
153	1920 July 2	IIr	iP	18 44 19	s. 4	$\mu\frac{1}{2}$	μ -	$\mu 1\frac{1}{4}$	km 4380	
			PR_2	46 36	6	10	1			
			iS	50 28	8	-9	+3			Computed time at origin : h m s 18 36 24
			PS	50 46	8	10	6			
			SR_2	52 10	9	5	18			
			eL	53.2	34					
			MN_1	54 46	18	60				
			ME_1	55 02	17		53			
			MN_2	56 25	13	27				
			ME_2	57 40	12		13			
			MZ	19 01 38	17			30		
			F	20 10						
154	" 2	IIr	iP	22 44 16	4	-2	$+2\frac{1}{2}$		4170	
			PR_1	45 52	6	3	4			
				46 02	3			4		
			PR_2	46 32	6	3	3			
			eS	50 13	9	2	2			Computed time at origin :- h m s 22 36 36
			PS	50 33	9	6	6			
			eL	52.8	18					
			MZ	54 56	18			23		
			MN_1	56 38	8	22				
			ME_1	57 38	8		13			
			MN_2	23 00 39	12	25				
			ME2	05 32	8		19			
			ME_3	07 11	11		26			
			MN_3	08 38	10	18				
			F	23 50						
154	" 6	Ir	iP	3 06 05	4	-1	$-1\frac{1}{2}$	$+\frac{1}{2}$	2600	
				06 40	7	12	9	7		
			PR_1	07 15	5	8	7			
			iS	10 18	8	-11	+5			Computed time at origin :- h m s 3 00 43
			PS	10 29	8	27	19			
				11 15	10	59	15			
			eL	12.1	24					
			MN	13 18	15	36				
			ME	15 39	15		15			
			MZ	15 51	15			7		
			F	4 35						
155	" 6	I	eL	5 14.1	20					
			ME	15 48	15		3			
			MN	17 04	14	3				
			F	5 45						
156	" 7	Ir	iP	10 45 40	3	-	+2		1130?	
			e(S?)	47 41	6	-	1			
			MZ	51 36	6			3		
			M_1	52.1	5	19	16			Very short wave-lengths
			M_2	55.5	5	9	8			
			F	11 20						

(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. 1920	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
157	July 7	I_r	e(P?)	20 h. 04 m. 55 s.	s. 4	μ.	$\mu\frac{3}{4}$	μ	2740? km	
			eS	09.19	8	$\frac{1}{2}$	$\frac{1}{2}$			
			eL	13.0	18					
			ME_1	14 11	15		5			
			MN_1	14 25	15	10				
			MN_2	15 41	16	20				
			ME_2	17 32	14		9			
			F	21 10						
158	" 8	I	e	2 09.9	12	1				
			e	16.5	12	1				
			M	28 50	14	3				
			F	2 50						
159	" 8	I	e(S?)	4 59 42	?					
			eL	5 03.7	22					
			M	08.3	11	11	2			
			F	6 15						
160	" 15	I	e	1 29.4	5					
			e?	31.9						
			eL	35.1	15					
			MN	39 20	12	3				
			ME	39 58	11		3			
			F	2 25						
161	" 15	I_r	eP	11 06 54	3				1840	
			S	10 03	4	3	2			
			M	10.7	4	8	2			Very short wave-lengths.
			F	11 35						
162	" 20	I	e?	0 40.3						
			eL	49.8	22					
			M	53.2	16	5	7			
			F	1 20						
163	" 22	I	eL	20 22.2	20					
			ME_1	23 14	16		5			
			MN_1	24 07	13	5				
			M_2	26.4	8	4	2			
			F	21 05						
164	" 24	I	eL	7 05.6	20					
			ME	09 29	13		3			
			MN	10 25	16	6				
			F	7 35						
165	" 25	I	e?	4 54.4	5	1	$\frac{1}{2}$			
			e(S?)	59.3	8	1	$\frac{3}{4}$			
			eL	04.6	13					
			MN	04 55	13	2				
			ME	07 22	10		2			
			F	4 20						
166	" 25	I	e	7 31.0	3					
			M	52.3	5	$2\frac{1}{2}$	$2\frac{1}{2}$			
			F	7 40						

E. F. T.

No. 8 192 1926, August.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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

INSTRUMENTS:

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

V T r

SEISMOMETER No. 4.

Oct., 1920 Installation not yet quite completed.
Installation pas encore complétement finie.
Aufstellung noch nicht ganz vollständig.

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
	1920		h. m. s.	s.	μ	μ	μ	km.	
167	Aug. 2	eP	5 24 05					6900	
		e(S?)	32 30						
		eL	43.6	16					
		MN	44 35	12	1½				
		ME	47 35	15		4			
		F	6 30						
168	" 2	e(S?)	20 14 57						
		eL	17.1	15					
		MN	17 48	13	1				
		ME	19 03	11		1½			
		F	20 35						
169	" 3	eP	3 10 18	2	1	½		4840	
		iS	16 52	8	-7	-1			
		PS	17 39	10	10	3			
		iSR_1	20 13	9	+14	-11			
			20 27	9	-16	42			
		eL	24.8	18					
		ME_1	25 39	8		12			
		MZ_1	26 21	7			2		
		MN_1	26 50	9	16				
		MN_2	31 31	11	9				
		ME_2	36 34	11		7			
		F	4 50						
170	" 3	eP	20 22 26					7860	
		eS	31 39						
		eL	46.6	28					
		M_1	49.2	26	21	11			
		M_2	54.6	16	6	7			
		ME_3	56 34	16		9			
		MN_3	56 48	14	7				
		F	22 45						
171	" 10	eP	20 53 30	2	[illegible]	[illegible]		2390	
		iS	57 26	7	-2	-3			
			57 31	7	2	8			
		eL	21 00.6	?					
		ME	02 52	12		1			
		MN	04 45	9	1				
		F	21 25						

(Continued on next sheet)

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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

INSTRUMENTS:

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

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

No.	Date.	Phase	Time (*Greenwich*) h. m. s.	Per. (s.)	Amplitude A_N μ	A_E μ	A_z μ	Δ km.	Remarks.
172	1920 Aug. 15	iP	8 21 35	4	-11	-4½	+10	3910	Cmputed azimuth:- 202° (N.22°E.)
			22 04	4	8	15	19		
		PR_1	22 39	5	24	9	13		
			22.56	5	39	35	24		φ, 1°S.
		eS	26 17	7	25	8			λ, 163½°E.
		PS	26 39	7	14	28			
		eL	26.8	?					
		M_1	27.7	7	85	65	48		Computed time at origin:-
		MN_2	29 19	8	50				h m s
		ME_2	30 11	7		61			8 14 17
		ME_3) NZ_2	31.2	7		46	10		
		MN3	31 59	9	41				
		F	10 40						
173	" 15	eP	13 26 21	4	-	¾		3850	
		iS	32 00	6	-3½	-1¼			
			32 06	6	2	1			
		PS	32 20	7	8	6			
		eL	34.0	15					
		M	35.6	15	5	6			
		F	14 10						
174	" 20	e(P?)	2 48 18						
		e(S?)	51 51						
		eL	53.3	14					
		ME	56 46	10		3			
		MN	56 56	9	2				
		F	3 30						
175	" 20	eP	13 54 34	?				2390	
		eS	58 30	6	2	1			
		iS	58 34	6	+19	+17			
		eL	14 00.6	18					
		ME	01 47	16		9			
		MN	02 16	13	6				
		F	14 40						
176	" 20	eP	16 39 38	?				5880	
		eS	47 08	16	3	3			
		e	56 47	25					
			57 21	20	10	9			
		eL	59.2	30					
		M_1	17 01.8	24	19	17			
		ME_2	04 34	20		33			
		MN_2	04 46	19	30				
		M_2	08.8	17	12	12			
		F	19 30						
177	" 22	eP	0 50 06	5	½	1			
		ME	54 48	12	2	2			
		MN	55 24	12	1½				
		F	1 15						

(Continued on next sheet)

No. 8 (continued) 1920, August.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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

INSTRUMENTS:

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

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

No.	Date.	Phase	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920								
178	Aug.25	eP?	21 58 48					3340	P masked by micro-seisms.
		eS	22 03 55	7	1	1¾			
		eL	06.4	22					
		MN_1)	06 09	10	12	19			
		ME_1							
		ME_2	09 38	16		95			
		MN_2	10 04	12	24				
		ME_3	10 57	13		88			
		MZ	11 49	12			8		
		MN_3)	12.6	12	49	48			
		ME_4)							
		F	23 20						
179	" 27	e	1 37.5						
		M	40.0	12	2	½			
		F	1 50						
180	" 27	e(P?)	3 44 02						
		e(S?)	47 02	12		1			
		e(L?)	48.1	14					
		ME	50 41	12		3			
		MN	54 20	12	1½				
		F	4 15						
181	" 27	e(P?)	11 11 28						
		MN	17 53	11	2				
		ME	18 11	?					
		F	Lost in No.182						
182	" 27	eL	11 24.2	14					
		MN	27 41	12	6				
		ME	29 07	12		1			
		F	Lost in No.183						
183	" 27	e	12 07.2	4	½	-			
		MN	11 28	11	4				
		ME	12 47	11		1½			
		F	12 40						
184	" 27	e(S?)	13 11 41						
		eL	15.4	15					
		MN	17 50	12	5				
		ME	18 58	12		2			
		F	14 05						
185	" 29	eP	10 54 33	3	½	½		2600	
		eS	58 46	9	1	2			
		eL	11 00.4	22					
		ME	01 33	20		12			
		MN	02 46	13	9				
		F	11 25						

Ernest F. Pigot S.J.

Riverview College Observatory,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

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

INSTRUMENTS:

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

	V	T_o	e : 1	$\frac{r}{T^2}$
A_N (1)	153	8.8	5.5	0.02
A_N (3)	112	9.0	3.9	0.02
A_E (1)	159	8.6	4.0	0.028
A_E (3)	148	10.2	2.1	0.04
A_Z (2)	83	5.1	5.5	0.05

No.	Date.	Phase	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1920								
186	Sept. 4	e(P?)	2 32 31	5	1	-			
		eL	45.1	22					
		ME_1	47 28	40		22			
		ME_2	54 33	20		4			
		MN_1	55 17	24	6				
		MN_2	57 03	18	10				
		F	5 05						
187	" 8	iP	2 51 40	5	+½	+10	-1	4220	Computed azimuth :- 267° (N.87°E.)
		PR_1	52 00	6	8	60			
		S	57 40	10	62	35			
		PS	58 42	10	115	51			φ, 24°S.
		eL	3 00.6	18					λ, 163½°W.
		MN_1	01 43	20	560				
		MZ_1	02 [illegible]	20			54		
		ME_1	02 15	20		320			Computed time at origin :- h m s 2 44 00
		MN_2)	03.8	10	69	69			
		ME_2)							
		MZ_2	04 48	12			36		
		F	5 00						
188	" 9	eP	19 01 47	5	½	½		3150	
		i	02 14	5	-4	+9			
			02 37	5	8	4			
		iS	06 41	7	-25	-20			
		PS	07 09	8	20	2013			
		eL	08.7	25					
		ME_1	08 57	20		105			
		MN_1	09 22	24	140				
		MZ	09 31	24			104		
		MN_2)	16.0	14	37	36			
		ME_2)							
		ME_3	17 57	15		37			
		MN_3	20 00	12	26				
		F	22 20						
189	" 10	eP	22 07 58					2330	
		eS	11 49	11	2	1			
		PS	12 15	11	2	-			
		eL	15.0	15					
		ME	15 54	13		1½			
		MN	20 58	13	2				
		F	23 20						
190	" 17	e?	18 51 15	9	½	-			
		e(SR_1?)	19 00 06	10	1½	-			
		eL	02.5	18					
		MN	05 32	13	2				
		ME	06 01	?					
		F	19 30						

(Continued on next sheet)

Riverview College Observatory,

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

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

	Date. 1920	Phase	Time (Greenwich) h m s	Per. s.	Amplitude A_N μ	Amplitude A_E μ	Amplitude A_Z μ	Δ km.	Remarks.
	Sept. 20	iP	14 43 42	7	+19	+20	-21	2320	Computed azimuth:-
			43 58	7	198	184	74		226° (N.46°E.)
		iPR_2	45 08	7	+49	+60			
		iS	47 32	9	-189	+54	+46		φ, 18½°S.
		PS	47 56	8	405	230+	280		λ, 167°E.
		eL	48.4	18					
		MZ_1	49 27	18			1120		
		MN_1							
		ME_1)	49.6	16	445	410			
		MN_2							
		ME_2)	52.5	10	500	170+			Computed time at origin:-
		MZ_2	52 41	13			460		h m s
		MN_3	54 16	9	340				14 38 46
		ME_3	54 52	11		190			
		MZ_3	55 23	14			680		
		ME_4	56 36	11		190			
		MN_4	56 51	8	290				
		MN_5	15 02 29	9	250				ERRATUM.
		ME_5	03 23	12		150			In Special Bulletin
		MN_6							issued 1920, Sept. 21,
		ME_6)	07.4	11	210	150			for iP amplitudes
		CE_1	15 19	9		46			read 19μ(N), 20μ(E),
		CN_1	15 31	8	65				instead of 12μ, 16μ,
		CE_2	19 29	9		48			respectively.
		CN_2	19 57	10	29				
		CE_3	36 14	9		6			
		CN_3	36 42	9	52				
	W_2 waves (Lrepl)	eW_2	17 30.6	18					
		ME	31 39	18		2¾			
		F	19 10						
192	" 20	iP	17 32 50	5	-	-1		2410	
			33 02	8			3		
		iS	36 52	6	-1¼	+9			
		MZ	38 01	8			2		
		MN_1	39 27	11	6				
		ME	39 55	12		2			
		MN_2	40 42	11	7				F lost in 191.
193	" 21	eP	2 38 54	5	3	⅛		2700	Computed azimuth:-
		iP	39 00	5	+13	+15	-5		228° (N.48°E.)
			40 12	5	9	11			
		iS	43 15	7	3	-12			φ, 17°S.
		eL	44.5	17					λ, 169°E.
		ME_1	44 52	16		33			
		MZ	45 15	13			7		
		MN_1	45 29	15	32				
		ME_2	46 25	15		18			
		MN_2	49 41	11	21				
		F	4 55						

(Continued on next sheet)

Riverview College Observatory,

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

No.	Date.	Phase	Time (*Greenwich*)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_z	Δ	Remarks.
	1920		h. m. s.	s.	μ	μ	μ	km.	
194	Sept. 21	e?	16 10.5						
		eL	16.2	20					
		MN	17 13	15	3				
		ME	21 13	14		2			
		F	17 05						
195	" 21	e?	17 41.5						
		e?	49.6						
		e	54.3	7	½	-			
		e(L?)	18 04.4	17					
			05 03	15	3				
		MN_1	09 55	18	5				
		MN_2	31 36	20	3				
		ME	37 09	16		2			
		F	19 10						
196	" 23	e?	5 59.1						
		e	6 09.2	12	1	-			
		eL	13.9	?					
		ME	15 03	20		1½			
		MN	16 32	20	3				
		F	6 30						
197	" 24	eP?	4 34 31	4	½	-			
		eS	38 59	9	½				
		eL	41.5	17					
		MN	42 33	14	3				
		F	5 05						
198	" 27	eP	10 01 36					1930	
		eS	04 53	9	-	½			
		PS	05 16	10	3	3			
		eL	06.1	18					
		MN	06 20	12	4				
		ME	08 16	12		4			
		F	10 40						
199	" 30	e?	10 18.1						
		eL	26.1	13					
		MN	26 47	12	1				
		ME	30 19	?					
		F	10 40						

E. F. Pigott S.J.