Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

		V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N	1	238	10.2	7.5	0.02
	3	122	10.1	7.4	0.04
A_E	1	251	11.2	7.0	0.02
	3	98	6.0	3.4	0.07
A_Z	2	84	5.1	3.4	0.08

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
1	Jan. 1	$e\bar{P}$	11 45 56	4				860	
			47 29	4					
		MN_1	48 23	6	8				
		MN_2	48 37	6	10				
		ME_1	48 43	6		7			
		MN_3, MZ	49.3	6	6		1		
		ME_2	49 27	6		5			
		F	12 15						
2	" 7	e	12 03 26	8					A few long waves.
		F	15 30						
3	" 8	e?	7 45.0						
		eL	58.1	20?					
		ME_1	8 01 39	18		2			
		ME_2	04 17	17		2			
		F	8 30						
4	" 11	e?	13 44.2						
			48 48	20	6				
		eL	51.9	20?					
		ME_1	53 25	19		4			
		MN_1	54 34	20	9				
		ME_2	55 53	16		3			
		MN_2	56 14	17	5				
		MN_3	14 01 14	12	3				
		ME_3	01 35	13		1			
		MN_4	03 55	12	3				
		ME_4	04 44	12		2			
		F	14c45						
5	" 13	iP	0 15 29	6	+4	1		8750	Dilatation.
		i	16 02	8	+16		19	(78,8°)	h m s
		iS	25 35	9	-16	1			0, 0 03 24
		SR_1	31 13	?					
		e	37 24	16					
			38 14	36		475			Kurile Is.
		eL	41.7	36					
		MN_1, ME_1	42.7	44	210	160			
		MN_2	43 24	44	150				
		MN_3	45 25	12	17				
		MN_4	47 11	15	16				
		ME_2	48 09	16		22			
		ME_3	50 52	14		14			
		MN_5	51 07	12	14				
		ME_4	53 49	18		23			
		MN_6	54 13	14	17				
		ME_5	59 03	16		11			

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
5	Jan. 13	MN_7	0 59 59	14	11				
(cont.)		ME_6, MZ_1	1 01.9	16		15	11		
		MZ_2	03 48	17			12		
		ME_7	04 13	16		18			
		CE_1	18 22	18		6			
		CN_1	20 40	18	12				
		CE_2	23 43	18		9			
		CN_2	26 11	16	12				
		CE_3	28 20	16		6			
		CN_3	46 18	16	5				
	W_2 series	eW_2	2 32.5	18					
		ME	35 03	18		3			
		MN	39 17	20	7				
		F	4 15						
6	" 16	iS	8 23 59	6	-4				P uncertain.
		PS	24 15	8	7	3			
		eL	34.2	32?					
		ME_1	36 12	12		4			
		MN_1	36 40	10	2				
		MN_2	38 54	12	5				
		ME_2	41 59	12		2			
		MN_3	47 01	12	3				
		F	10 05						
7	" 17	e?	12 04.5						
		eL	53.2	32?					
		ME_1	13 01 48	28		2			
		MN_1	07 44	20	3				
		ME_2	10 58	18		3			
		MN_2	12 31	18	4				
		ME_3	15 59	18		3			
		ME_4	20 25	18		5			
		MN_3	21 02	18	5				
		MN_4	23 22	18	5				
		MN_5	29 52	20	8				
		MN_6	37 34	20	5				
		ME_5	42 21	20		2			
		eW_2	43.1	?					
		MN	47 49	16	2				
		ME_1	48 17	16		1			
		ME_2	54 02	20		5			
		F	15 55						
8	" 17	e?	22 37.2						
		i(S?)	47 32	6	7	6			
		eL	54.1	24					
		ME_1	56 36	18		7			
		MN_1	59 48	12	3				
		ME_2	23 00 13	16		4			
		MN_2	02 52	14	6				
		MN_3	04 21	16	8				
		ME_3	05 31	14		2			
	" 18	F	1 40						

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude.			Δ	Remarks.
					A_N	A_E	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
	1929								
12	Jan. 25	iP	2 07 04	6				2170	
			07 25	6	12	10	2	(19.5°)	
		iS	10 38	6	11	14			
			11 30	8	17	16			
		eL	12.3	?					
		MN_1	12 55	9	6				
		ME_1	13 41	9		5			
		ME_2	15 12	12		7			
		MN_2	15 37	10	5				
		MN_3	19 23	12		5			
		F	2 55						
13	" 30	e?	16 59.4						
		(PR_1?)	17 02 01	4	+4	-1½			
		eS	08 13	6	2				
			08 19	6	2				
		eL	17.9	28					
		ME_1	18 57	20		8			
		MN_1	21 36	16	5				
		ME_2	22 10	16		7			
		MN_2	24 16	14	4				
		ME_3	26 16	16		4			
		F	18 50						

Wm. O'Leary S.J.
Director

No. 2 1929, February.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

		V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N	1	224	8.5	4.5	0.016
	3	102	10.0	6.9	0.04
A_E	1	234	9.5	4.0	0.017
	3	123	9.2	2.7	0.07
A_Z	2	84	5.1	3.2	0.09

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
4	Feb. 1	e	17 38.3						
		eSR	46 49						
			47 05	16?					
		eL	56.5	32					
		ME_1	59 20	20		5			
		MN_1	18 00 53	24	16				
		MN_2	03 27	24	16				
		MN_3	06 15	20	11				
		ME_2	07 46	20		3			
		MN_4	16 20	18	11				
		ME_3	16 47	20		5			
		F	18 55						
5	" 2	eP'	00 20 10	4					Central Atlantic.
		PR_1	23 32	8	4	2			
		PR_2	27 12	8	2	2			
		PR_3	29 40	8		2			
		PR_4	31 22	9	6	2			
		PPS	36 11	9	8	2			
		SR_1	42 42	14		7			
		SR_2	48 06	14	6	9			
		SR_3	52 35	12		6			
		eL(Q)	1 00.1	56					Q, Love waves.
			02 17	64		475			
			03 17	64		380			2 very remarkable waves.
		eL(R)	11.7	28?					
		ME_1	20 29	20		10			R, Rayleigh waves
		MN_1	20 52	16	14				
		ME_2	23 21	20		20			
		MN_2	24 34	18	20				
		MN_3, ME_3	29.3	18	18	27			
		MN_4	32 50	16	22				
		MN_5, ME_4	36.0	16	17	29			
		ME_5	38 33	16		6			
		MN_6	41 43	16	14				
		ME_6	45 17	16		23			
		MN_7	46 17	16	17				
		ME_7	46 17	16		4			
		MN_8	54 12	16	13				
		CE_1	59 24	16		3			
		CE_2	2 05 15	16		4			
		CE_3	11 00	16		3			
		CN_1	18 01	16	8				
		CN_2	18 31	16	4				
		CN_3	22 39	16	3				
		F	3 25						

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
16	1929								
16	Feb. 2	e?	14 55.1						
		e(S?)	15 00.1						
		eL	02.5	20					
		MN_1	04 34	16	4				
		ME_1	05 13	16		4			
		MN_2, ME_2	07.9	16	4	7			
		F	15 55						
17	" 6	e?	2 44.3						
		e	49.3						
		eL	54.1	24					
		ME	57 06	20		2			
		MN	58 21	20	3				
		F	3 20						
18	" 9	eP	6 37 33	5	5	1		1900	
		eS	40 45	10	3	3		(17.18)	
		eL	41 22	16					
		MN_1	43 37	10	2				
		ME	43 59	11		1½			
		MN_2	44 34	8	2				
		F	7 10						
19	" 10	e?	15 16.2						
		e(L?)	35.2	22					
		ME_1	37 23	18		2			
		ME_2	43 42	18		3			
		MN_1, ME_3	50.9	16	1	2			
		MN_2	54 49	16	1				
		F	16 05						
20	" 15	ePR_1	5 51 45						
		e(S?)	55 55						
		SR_1?	59 36	8	4	3			
		MN_1	6 05 32	15	3				
		ME_1	06 30	16		3			
		MN_2	07 16	14	2				
		MN_3	14 34	14	2				
		ME_2	17 32	14		2			
		F	7 00						
21	" 15	e?	12 43.0						
		e	47.6	4					
			48 28	25	11	10			
		e(L?)	48.8	12					
		ME_1	49 19	7		4			
		ME_2	51 08	8		4			
		MN_1	51 11	10	5				
		F	13 15						
22	" 16	e(S?)	19 42.0						
		e(L?)	49.1	24?					
		MN_1, ME_1	52.3	24	15	12			
		MN_2	54 20	20	10				
		MZ_1	54 54	20			35		
		ME_2	55 14	20		18			
		MZ_2	55 47	18			21		
		MN_3	56 41	18	7				
		ME_3	56 56	18		12			
		MN_4	59 38	16	8				
		ME_4	20 01 39	16		4			
		F	21 05						

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
3	Feb.20	eP	21 09 55	4		2			
		θ(PR$_1$)	11 13	6		5			
			11 25	6	3	11			
		e	14 50	6	4				
		eL	17.2	14					
		MN$_1$	17 37	14	11				
		ME$_1$	18 35	14		3			
		MN$_2$	19 43	14	8				
		i	20 04	6	6	10			Perhaps a 2nd. P
			20 06	6	9	17			
		ME$_2$	24 19	14		3			
		F	22 25						
4	" 22	eP'	21 02 13	4					
		ePPS	19 13	5					
		eSR$_1$	25 19	9	1	1			
		eSR$_2$	31 38	12	3½	5			
		eL(Q)	47.8	32					
		eL(R)	56.1	28					
		MN$_1$, ME$_1$	22 00 00	28	17	17			
		MN$_2$, ME$_2$	02.0	20	13	7			
		ME$_3$	04 11	20		17			
		MN$_3$	04 32	20	13				
		MN$_4$	06 52	20	11				
		ME$_4$	08 52	20		7			
		MN$_5$	11 42	20	11				
		MN$_6$	14 22	18	9				
		ME$_5$	15 06	18		7			
		MN$_7$	19 18	16	8				
		ME$_6$	22 23	16		5			
		MN$_8$	26 45	16	7				
		ME$_7$	29 42	16		5			
	W$_2$ series	eW$_2$	31.5	28					
		MN$_1$	33 17	18	5				
		MN$_2$	34 33	20	6				
		ME$_1$	36 57	20		3			
		ME$_2$	38 27	18		4			
		ME$_3$	40 41	18		4			
		MN$_3$	41 15	18	4				
		MN$_4$	52 05	16	3				
		ME$_4$	52 59	16		3			
	" 23	F	00 50						
25	" 24	eS	22 06 32						
		ME	11 23	13		2			
		MN	12 47	15	2				
		F	22 25						
26	" 26	iP	3 34x33	3	+3	+5½	-1½	2490	
		iS	38 30	6	+11	+7		(22.4°)	
		eL	39.8	20					
		ME$_1$	40 21	20		15			
		ME$_2$	41 25	20		25			
		MN$_1$	41 40	18	14				
		MN$_2$	43 47	15	5				
		F	4 50						

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No. 2 (continued) 1929 February

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
27	Feb.26	ePR_1	9 17 58						
		eS	25 34	8			1½		
			25 40	8			2		
			25 57	8			3		
		eSR_1	32 32						
		eL	46.4	22					
		ME_1	51 48	18			1		
		ME_2	55 25	18			2½		
		MN_1	57 45	18	3½				
		MN_2	10 01 29	16	1				
		ME_3	05 28	16			1		
		F	11 20						
28	" 27	eL	6 19.2	24					
		MN	22 57	12	3				
		F	6 50						
29	" 28	e?	00 27.1						
		e(S?)	30?9						
		e(L?)	36.5	18?					
		M	39 14	15	5				
		F	1 00						

Wm. O'Leary S.J.
Director

Riverview College Observatory

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SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

		V	T_o	ϵ : 1	$\frac{r}{T_o^2}$
A_1	(1)	222	8.6	4.0	0,02
	(3)	128	10.1	5,6	0,04
A_2	(1)	240	9.2	3.5	0,02
	(3)	113	9.0	3.0	0.08
A_3	(2)	91	5.0	3.4	0.08

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
30	1929 Mar. 4	e(S?)	14 51 15						
		eL	55.2	18					
		ME_1	56 00	12		5			
		MN_1	57 48	10	2				
		ME_2	58 07	10		4			
		MN_2	58 57	10	2½				
		ME_3	58 17	9		3½			
		P	15 20						
31	" 7	eP	1 47 44	4				9310 (83.8°)	Compression. Computed Azimuth: 10° (N. 10° E.) Aleutian Is. h m s 0, 1 35 16
		iP	47 46	4	-9	-5	+4		
		iS	58 16	8	-39	-11			
			58 28	8	50	22			
			58 51	10	73	35			
		PS	59 15	10	6	11			
		iSR_1	2 04 05	10	5	18			
			05 15	10	34				
			05 38	10	36				
			05 57	10	130				
		SR_2	07 57	10	13	11			
		SR_3	09 49	10	26	6			
		eL (Q)	12 31	12		41			
		eL (R)	13.1	20					
		MZ_1	17.2	36?			60		
		ME_1	18 34	21		120			
		MN_1	18 57	22	200				
		ME_2	19 13	22		120			
		MN_2	21 52	16	140				
		MZ_2	22 47	16			70		
		MN_3	22 57	18	145				
		ME_3	23 45	16		72			
		MN_4	25 26	14	110				
		MZ_3	25 39	16			55		
		MN_5	29 17	16	120				
		ME_4	29 28	16		100			
		MZ_4	29 38	16			44		
		MN_6, ME_5	32 13	16	100	81			
		bME 6	32.4	16		83			
		MN_7	36 21	16	91				
		ME_7	37 35	16		62			
		CZ_1	44 30	16			28		
		CE_1	50 59	18		19			
		CN_1	2 54 06	16	32				
		CE_2	55 34	16		20			
		CN_2	3 00 36	16	34				
		CE_3	01 11	16		20			
		CN_3	05 24	16	29				
			05 42	16					

No.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
1	Mar. 7	eW_2	3 58.6	20					W_2 series.
cntd.		MN_1	4 01 30	20	13				
		ME_1	02 36	16		3			
		MN_2	04 18	18	27				
		ME_2	05 05	16		10			
		MN_3	08 44	16	14				
		ME_3	10 24	18		9			
		MN_4	14 12	18	14				
		ME_4	15 15	18		9			
		F	6 20						
2	" 7	e(L?)	11 31.4						
		MN_1	35 10	10	2				
		MN_2	40 38	10	2½				
		ME	42 19	11		2			
		F	12 20						
3	" 8	e?	11 20.5						
		e	22.5						
		MN_1	28 20	10	2				
		MN_2	30 41	10	1½				
		F	11 35						
4	" 8	e	12 17.1						
		ME	29 03	8		1			
		MN	29 13	8	1				
		F	13 55						
5	" 9	i(S?)	2 29 51	5	5	¾			
		eL	39.6	20					
		MN_1	43 16	12	1				
		ME_1	44 20	16		3			
		MN_2	48 48	16	4				
		ME_2	50 20	16		2			
		F	3 50						
6	" 9	eP	10 54 42					2300	
		iP	54 47	4	-5	+9	-3	(20.7°	Dilatation.
		PR_1	55 02	4	26	42			Computed azimuth:
			55 18	4	28	41			140° (S.40°E.)
		iS	58 26	8	-24				
			58 52	12	120	55			h m s
		eL_Z	59.0	36?					0, 10 49 56
		MN_1	59 19	10	97				
		MZ_1	59 48	20			85		
		ME_1	11 00 13	12		175			
		ME_2	00 52	16		320			
		MZ_2	01 07	16			145		
		MN_2	01 28	12	145				
		MZ_3	01 56	12			86		
		MZ_3	02 01	12		140			
		MN_3	02 30	12	160				
		ME_4	02 48	12		160			
		ME_5	03 19	12		140			
		MZ_4	03 31	12			65		
		MN_4, ME_6	05.3	12	125	93			
		MN_5	07 14	12	79				
		ME_7	08 41	12		96			
		MN_6	09 52	12	130				
		ME_8	11 24	12		64			
		MN_7	11 57	12	120				
		ME_9	13 37	12		110			
		MN_8	14 25	14	185				

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
36	Mar. 9	ME_{10}	11 15 13	14		94			
		MN_9	16 23	12	94				
		ME_{11}	17 42	12		79			
		MN_{10}	19 53	12	53				
		ME_{12}	20 33	12		75			
		MN_{11}	23 24	12	67				
		ME_{13}	23 42	12		53			
		MN_{12}	28 32	11	49				
		ME_{14}	28 51	10		43			
		CN_1	43 38	12	21				
		CE_1	44 20	12		22			
		CE_2	48 34	12		10			
		CN_2	48 52	12	15				
		CN_3	52 14	12	18				
		CE_3	53 17	12		12			
		eW_2	13 54.4	24					W_2 series.
		ME	14 03 41	16		1			
		MN	05 26	16	1				
		F	15 10						
37	" 10	e	11 59.2						
		MN_1	12 02 18	12	1				
		MN_2	04 17	12	1				
		F	12 35						
38	" 10	eP	14 34 41	4	2			4530?	
		e(S?)	50 50						
		eL	59.2	16					
		MN_1	15 03 18	12	½				
		ME_1	03 27	12		1			
		ME_2	03 27	12		1			
		MN_2	07 45	12	1				
		F	15 45						
39	" 15	e(P?)	12 40 59						
		e(S?)	46.7						
		eL	49.2	?					
		ME_1	50 17	14		4			
		ME_2	51 26	12		2			
		MN_1	51 33	12	2				
		MN_2	53 12	11	2				
		ME_3	53 17	12		3			
		F	13 35						
	" 15	eL	14 40.2	17					
		MN	41 32	10	1				
		ME	42 19	10		2			
		F	15 00						
	" 16	iP	6 05 02	4	-2	-2		2460	
		iPR_1	05 27	4				(22,1°)	
			05 37	4	6				
		iS	08 56	5	+4	+3			
			09 23	5	9				
		eL	09.5	24					
		MN_1	09 59	6	9				
		ME_1	10 15	6		9			
		MN_2	10 45	6	6				
		ME_2	13 1[illegible]	6		3			
		MN_3	18	172	3				
		F	6 45						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
42	Mar.18	e?	1 48.3						
		eL	2 08.6	20					
		MN_1	02 12	10	7				
		ME_1	02 17	10		9			
		ME_2	03 11	12		6			
		MN_2	04 51	12	12				
		ME_3	06 11	12		5			
		MN_3	09 50	12	11				
		F	3 10						
43	" 19	e?	21 21.2						
		e?	26.2						
		eL	50.2	30					
		MN_1	55 40	18	2				
		ME_1	57 30	18		2			
		ME_2	59 53	18		3			
		MN_2	22 06 27	18	2				
		ME_3	07 20	18		2			
		F	23 40						
44	" 20	eL	21 17.8	?					Very small.
		MN	20 11	16	3				
		ME	22 23	16		1			
		F	21 50						
45	" 21	i	2 53 30	4	-4	$+4\frac{1}{2}$			
		eL(Q)	3 33.1	30					
		eL(P)	38.3	26?					
		ME_1	41 18	20		3			
		ME_2	43 00	20		3			
		ME_3	44 59	18		2			
		MN_1	45 45	18	2				
		ME_4	49 22	18		2			
		MN_2	49 37	16	3				
		MN_3	52 28	14	1				
		F	5 00						
46	" 22	e	7 21.2						
		e(L?)	24.2						
		ME_1	26 35	16		2			
		MN_1	27 15	16	3				
		ME_2	29 46	?					
		MN_2	30 05	14	1				
		MN_3	33 12	12	1				
		F	7 55						
47	" 23	e	0 15.2						
		MN	28 14	12					Very small.
		ME	28 39	12					
		F	0 50						
48	" 23	eP	20 08 44	4				2880	
		eS	13 08	6				(25.9°)	
			13 29	8	3	1			
		ME_1	23 21	12		7			
		MN_1	23 30	12	3				
		ME_2	24 16	12		9			
		MN_2, MZ	27.0	12	15		5		
		MN_3	27 06	12	17				
		ME_3	28 04	11		17			
		F	21 45						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
49	Mar. 24	eP	5 37 55	3	½	¾		2840	
		iS	42 16	5	-3½	-7		(25.6°)	
		eL	44.1	20					
		MN_1	45 32	16	7				
		MN_2	47 17	12	10				
		ME_1	47 22	12		2			
		ME_2	48 28	12		3			
		MN_3	49 47	12	4				
		ME_3	50 31	12		3			
		F	6 50						
50	" 26	e	10 40.7						
		e(S?)	42.7	8					
		eL	44.2	20					
		ME_1	47 26	12		1			
		MN_1	49 12	12	2				
		ME_2	49 45	10		1			
		MN_2	50 33	11	1				
		MN_3	53 53	10	2				
		ME_3	54 56	9		1			
		MN_4	57 18	12	2				
		F	11 30						
51	" 28	e?	20 34,9						Very poorly marked.
		e(L?)	21 02.1						
		ME_1	11 21	16		1			
		MN_1	12 14	16	6				
		MN_2	14 25	16	7				
		ME_2	15 15	16		2			
		MN_3	19 03	16	4				
		ME_3	20 44	16		1			
		MN_4	24 13	16	6				
		ME_4	26 33	16		1			
		MN_5	26 50	16	6				
		F	22 20						
52	" 30	eL	14 58.0	16					Very small.
		MN	15 01 52	10	½				
		ME	01 59	11		½			
		F	15 15						
53	" 31	eP?	5 31 12					3080?	
		eS	35 49	4	1	¾			
		eL	38.2	20					
		ME_1	40 11	16		10			
		MN_1, ME_2	43 27	16	15	17			
		ME_3	44 32	14		24			
		MN_2	44 46	14	23				
		ME_4	45 15	11		17			
		MN_3	45 53	10	9				
		MN_4, ME_5	47 09	10	11	13			
		MN_5	48 52	10	5				
		ME_6	49 15	10		6			
		ME_7	52 37	10		5			
		F	7 10						

W. F. Kearns S.J. Director

No. 1929, April.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

		V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N	1	212	8.4	3.6	0.01
	3	121	10.4	6.5	0.04
A_E	1	237	9.1	3.2	0.02
	3	168	8.9	2.7	0.09
A_Z	2	90	5.0	3.4	0.08

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1929		h. m. s.	s.	μ	μ	μ	km.	
54	Apr. 1	e	5 38.5						
		e (S?)	41.2						
		ME_1	43 44	8	2	2			
		MN_1	44 10	8	2				
		ME_2	46 13	10		3			
		MN_2	46 45	10	2				
		F	6 10						
55	" 8	e	6 56.2						
		ME	7 04 50	8		½			
		MN	05 09	8	½				
		F	7 30						
56	" 8	iP	10 24 52	3	+1	-¾	-1½	4730	h m s 0, 10 16 42
		iS	31 13	3	+6	+1		(42.6°)	
		PS	31 17	3	22	2			
			31 23	4	21				
			31 28	4		9			
		iSR_1	33 43	5	+5	-10			
		eL	37.7	16					
		ME_1	41 26	10		2			
		MN_1	41 56	12	3				
		MN_2	44 09	10	2				
		ME_2	47 12	12		3			
		MN_3	49 02	12	2				
		ME_3	54x27	12		1			
		F	11 25						
57	" 8	e	17 54.2	4					
		i	58 28	4		1			
			59 43	7	1	1			
		MN	18 05 55	8	½				
		ME_1	06 37	6		1			
		ME_2	09 17	8		½			
		F	18 35						
58	" 9	e	4 14.1						Badly marked.
		ME_1	32 25	16		2			
		MN_1	33 11	16	2				
		ME_2	38 25	16		1			
		MN_2	43 16	14	1				
		F	6 05						
59	" 13	e (P?)	7 03 35						A few long waves.
		e (L?)	28.5	?					
		MN_1	34 02	20	2				
		ME_1	34 20	20		2			
		MN_2	35 53	20	5				
		ME_2	36 59	20		2			
		MN_3	37 45	20	4				
		F	9 00						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
60	Apr. 13	e	9 27.1						
		eL	30.1	26?					
		ME_1	32 50	16		5			
		MN_1	34 23	8	3				
		ME_2	35 47	10		2			
		MN_2	36 41	11	3				
		F	10 25						
61	" 13	e	13 05.4						
		eL	10.2	16					
		MN_1	11 59	8	1				
		ME_1	12 16	8		3			
		ME_2	13 14	8		1			
		MN_2	13 59	8	3				
		MN_3	36 11	8	½				Perhaps another shock.
		ME_3	39 20	8		½			
		MN_4	39 57	9	¾				
		F	14 05						
62	" 13	e?	21 22.1						Very small.
		e(L?)	32.8	16					
		MN_1	36 09	10	½				
		MN_2	22 01 13	16	1				
		F	22 05						
63	" 14	eP	19 30 26					2240	
		iS	34 06	6	1	2		(20.2°)	
		eL	35.6						
		ME	37 31	16		2			
		MN	38 28	11	1				
		F	20 15						
64	" 15	e?	0 50.1						
		eL	58.5	18					
		ME_1	1 01 17	12		1			
		MN_1	02 08	10	1				
		ME_2	06 27	12		1			
		MN_2	07 47	10	2				
		ME_3	12 17	12		2			
		MN_3	12 41	12	1				
		F	1 45						
65	" 15	e	16 20.7						
		e(S?)	25.6						
		eL	31.1	16					
		ME_1	33 12	33		1			
		MN_1	34 59	10	2				
		ME_2	38 23	8		1			
		MN_2	39 11	8	1				
		ME_3	43 53	10		1			
		MN_3	46 32	10	1				
		F	17 35						
66	" 19	eL?	12 42.8	16					Very small.
		MN	46 20	12					
		ME	46 28	12					
		F	13 00						
67	" 24	eS?	7 09.1						
		MN	15 21	12	1				
		ME	15 33	12		1			
		F	7 35						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
68	Apr.27	e(P?)	2h 08 08						Obscured by heavy microseisms.
		e(S?)	16 05	8	3	2			
		eL	18.5	22					
		MN_1, ME_1	21.1	16	11	26			
		MN_2, MZ_1	24.1	14	28		8		
		ME_2	24 33	12		20			
		MN_3	26 15	12	21				
		ME_3	26 29	10		6			
		ME_4	29 15	9		4			
		MN_4	32 47	9	7				
		F	22 55						
69	" 28	e(P?)	14 45 06						Heavy microseisms.
		e(S?)	51.3	6					
			52 21	6	6	8			
		eL	54.4	14					
		ME_1	55 21	12		15			
		MZ_1	56 14	9			3		
		MN_1	56 29	8	14				
		ME_2	56 48	8		5			
		MN_2	57 21	8	15				
70		F	15 30						
	" 30	e	12 42.1	4					
		eL	43.4	16?					
		MN	46 12	15	2				
		ME	48 14	14		1			
		F	13 10						

Wm. O'Leary S.J.
Director.

No. 5 1929, May.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

	V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N (1)	217	8.5	4.1	0.013
A_N (3)	132	11.0	6.0	0.04
A_E (1)	221	9.2	3.7	0.018
A_E (3)	123	9.2	4.0	0.08
A_Z (2)	90	5.0	3.1	0.10

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	Amplitude. A_E μ	Amplitude. A_Z μ	Δ km.	Remarks.
	1929								
71	May 1	e	15 54.5						
		e	56.5						
		ePS	16 06 32	6	1½	1½			
			11 28	13		2			
		eL(Q	25.4	32					
			27 40	40	65				
		eL(R	30.8	28					
		MN_1	31 52	30	100				
		ME_1	32 46	32		81			
		MN_2	35 55	24	86				
		ME_2	39 00	27		150			
		MN_3	40 16	20	50				
		MN_4	43 40	20	79				
		ME_3	44 44	18		100			
		ME_4	46 23	18		90			
		MN_5	47 19	18	45				
		ME_5	48 34	18		66			
		ME_6	52 01	18		49			
		MN_6	52 16	20	15				
		CN_1	17 13 19	16	4				
		CE_1	13 28	16		8			
		CN_2	16 07	16	7				
		CE_2	17 10	16		6			
		CE_3	20 16	16		4			
		CN_3	21 40	16	7				
		CE_4	24 52	16		4			
		CN_4	28 10	14	5				
		CE_5	b31 16	15		3			
		CN_5	31 55	20	6				
		eW	44.5	20					
	2 series	MN_1	47 00	16	5				
		ME_1	48 46	16		3			
		MN_2	54 10	16	3				
		ME_2	59 16	16		3			
		F	19 55						
72	" 2	eP	15 06 19	?				1000	
		iS	08 05	2?					
			08 19	4	5	5			
			08 46	4	4				
			09 00	4	4				
			09 25	8	4	3			
		F	15 25						
73	" 5	e	08 41.8						
		ME	44 53	9		1			
		MN	45 35	9	1				
		F	09 00						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								h m s
74	May 6	iP	05 15 26	2	+1½	-1¾		3600	0, 05 09 36
		iS	20 39	8		+3		(32.4°)	
		SR_1	23 14	8	6	8			
		MN_1	25 23	8	18				
		ME_1	26 12	8		41			
		MZ_1	26 20	8			2		
		MN_2	26 28	n8	28				
		ME_2	26 36	8		54			
		MZ_2	29 23	8			6		
		MN_3, ME_3	27.5	8	29	58			
		ME_4	30 02	7		41			
		MN_4	30 29	7	18				
		ME_5	31 13	7		31			
		MN_5	32 00	7	19				
		MN_6	34 17	8	17				
		ME_6	34 22	8		24			
		CN_1	42 34	8	4				
		CE_1	42 43	8		3			
		CN_2	46 41	8	2				
		CE_2	47 32	8		3			
		F	07 00						
75	" 7	e	03 56.8						Obscured by microseisms
		MN	04 06 08	15	6				
		F	04 20						
76	" 7	eP	16 18 37	4?				2320	
		i	18 46	3	-1½	+3		(20.9°)	
			18 50	3	3	6			
		iS	22 23	5	+2	+2			
		eL	24.4	24					
		ME	25 17	16		3			
		MN	26 04	14	5				
		F	lost in No.77						
77	" 7	i(P?)	16 42 11	3	-3			3640?	
		iS	47 22	6					
		eL	49.3	12					
			52 39	8		35			
			52 49	4	27				
		MZ_1	53 31	5			18		
		ME_1	53 40	6		59			
		MN_1	54 00	6	51				
		MZ_2	54 07	6			40		
		ME_2	54 19	6		64			
		MN_2	54 55	6	60				
		MN_3	55 29	6	66				
		MN_4, ME_3	56 51	8	60	100			
		MZ_3	57 00	9			62		
		MN_5, ME_4, MZ_4	57 37	9	69	75	45		
		ME_5	58 51	8		65			
		MN_6	58 55	7	34				
		ME_6	17 00 50	8		26			
		MN_7	01 19	9	38				
		ME_7	03 04	9		26			
		CN_1	22 00	10	3				
		CE_1	24 14	10		3			
		CN_2	30 57	11	4				
		CE_2	32 12	10		3			
		F	18 40						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
78	May 8	eL	13 07.5	18					
		MN	10 12	16	3				
		ME	11 36	12		1			
		F	13 35						h m s
79	" 10	iP	17 22 45	4	+2	-12	+2	2900	0, 17 16 46
		PR_1	22 52	4	5	20	13	(26.1°)	
		PR_1	23 12	4		10			Chatham Is?
		PR_2	23 25	4	6	16			
		PR_3	23 29	4	7	21			
		eS	27 18	8					
		SR_1	28 00	8	11	5			
		eL	29.3	12					
		ME_1	31 08	10		2			
		MN_1	32 07	10	3				
		MN_2	35 23	10	2				
		ME_2	35 42	10		1			
		F	18 10						
80	" 11	e	02 32.5						
			36 29	6	4				Phases masked by microseisms. Not distinguishable.
			37 00	6	7				
			37 20	6		6			
			37 46	6	4				
			38 16	6		4			
			40 04	6	4				
		F	15 00						
81	" 16	eL	12 55.1	16					Obscured by heavy microseisms.
		ME	57 53	12		3			
		MN	58 20	12	3				
		F	13 10						
82	" 18	eL	07 36.2	36?					Asia Minor.
		MN_1	47 32	24	6				
		MN_2	50 15	20	4				
		ME_1	52 27	20		6			
		ME_2	54 38	20		6			
		ME_3	57 15	20		6			
		MN_3	57 54	20	2				
		F	08 50						
83	" 19	e	05 27.3						Heavy microseisms.
		eL	33.1	20					
		MN	35 33	14	2				
		ME	37 24	15		1			
		F	06 00						
84	" 20	e(P?)	05 06 08	4?				8530?	
		iS	16 03	6	5				
		PS	16 27	6	5				
			16 48	6	4				
		eL	34.3	35?					
		MN_1	38 21	24	13				
		cME_1	39 58	24		8			
		MN_2	40 21	24	16				
		ME_2	42 27	24		8			
		MN_3	44 18	20	9				
		ME_3	46 50	20		6			
		MN_4	51 20	20	7				
		ME_4	51 30	20		4			
		F	06 55						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
85	May 21	eP	16 46 48					~~8310~~	h m s
		iS	55 32	6	2			7200	0, 16 36 09
			55 39	6	6			(64.8°)	
			56 18	6	4				
			56 39	6	5				
		eL	17 05.1	34					
			06 51	24		20			
			07 15	24		23			
			07 40	24		17			
			10 00	22	22				
		MN_1, ME_1	12 18	22	33	37			
		MN_2	13 36	22	49				
		ME_2	14 00	22		35			
		MN_3	15 39	20	18				
		ME_3	16 18	18		25			
		MN_4	20 04	16	18				
		ME_4	20 42	16		6			
		MN_5	22 57	16	7				
		ME_5	24 00	16		6			
		MN_6	26 07	16	7				
		ME_6	28 20	16		3			
		MN_7	29 06	16	8				
		F	19 15						
86	" 22	iP	00 31 51	4	1½	2½		2660	h m s
		iS	36 07	6	5			(24.0°)	0, 00 26 18
		SR_1	37 04	6	3	8			
		SR_2	37 21	6	7	5			
		eL	38.2	?					
		ME_1	40 08	9		2			
		MN_1	40 42	10	2				
		ME_2	42 04	12		6			
		MN_2	42 28	12	2				
		F	01 10						
87	" 22	iP	20 12 10	4	3			3300	h m s
			12 57	7	4			(29.7°)	0, 20 05 46
		iS	17 03	12	9	6			
		iL	18 07						
			18 18	14		50			
		MN_1	20 13	12	32				
		ME_1	20 21	12		51			
		MN_2	20 54	11	23				
		ME_2	21 11	11		49			
		MN_3	22 24	10	47				
		ME_3	23 34	10		48			
		MN_4	26 03	9	19				
		ME_4	26 27	10		21			
		ME_5	28 32	8		11			
		MN_5	28 39	8	17				
		MN_6	30 51	8	14				
		CE_1	35 07	10		8			
		CN_1	36 28	10	10				
		CN_2, CE_2	39.1	9	8	5			
		CN_3, CE_3	45 04	10	6	5			
		F	23 10						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
88	May 26	i(P?)	08 49 37	4	2½			3100?	Heavy macroseisms.
		eS	55 16	10	2	2			
		eL	58.2	14					
		MN_1	09 03 51	8	9				
		ME_1	04 24	15		11			
		MN_2	07 33	12	14				
		ME_2	07 48	12		10			
		MN_3	09 45	12	8				
		ME_3	10 13	12		8			
		F	09 50						
89	" 26	e	12 18.3						Heavy micros.
		MN_1	20 49	14	3				
		MN_2	23 09	12	4				
		F	12 40						
90	" 26	eP'	22 57 45	4					2 "
			23 11 24	7	3				
			15 07	20		15			
		eL	24.2	56					
			25 06	56	300				
			26 07	56	340	370			
		MN_1	33 21	22	27				
		ME_1	33 33	22		18			
		ME_2	37 18	20		32			
		MN_2	39 27	20	33				
		ME_3	40 07	20		25			
		ME_4	44 51	18		19			
		MN_3	45 21	18	17				
		MN_4	48 30	20	18				
		MZ	51 30	20			9		
		MN_5	51 45	20	22				
		ME_5	54 00	20		13			
		MN_6	58 03	20	22				
		ME_6	58 52	18		15			
	" 27	MN_7	00 07 21	16	15				
		ME_7	10 48	18		14			
		MN_8	23 43	20	11				
		ME_8	25 39	20		15			
		ME_9	30 33	20		15			
		ME_{10}	35 39	20		34			
		ME_{11}	38 45	20		15			
		MN_9	42 39	20	11				
		ME_{12}	50 18	20		14			
		MN_{10}	54 21	20	11				Perhaps W_2 series
		ME_{13}	58 58	20		10			
		MN_{11}	01 05 33	20	9				
		ME_{14}	07 15	18		5			
		MN_{12}	07 54	18	5				
		MN_{13}	12 39	18	9				
		MN_{14}	16 12	16	4				
		F	03 05						

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No. 5 (continued) 1929 May

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	Amplitude. A_E μ	Amplitude. A_Z μ	Δ km.	Remarks.
	1929								
91	May 30	eP?	09 57 48						
		eP'	10 01 37	?					
		ePR_1	01 51	7					
		e(S?)	08 05	8					
		ePS	10 39	8					
		ePPS	11 35	8?					
		eSR_1	16 30	10					
		eSR_2	21 05	10?					
		eL	27.3	28					
		ME_1	33 15	20			6		
		MN_1	34 00	20	9				
		MZ	34 51	20			9		
		MN_2	35 15	20	15				
		ME_2	35 17	20		17			
		MN_3	37 25	20	9				
		ME_3	38 18	20		10			
		MN_4	44 07	16	4				
		ME_4	46 15	16		2			
		MN_5, ME_5	49 45	16	4	2			
		MN_6	54 12	16	3				
		ME_6	55 16	16		3			
		ME_7	11 01 45	15		2			
		MN_7	05 39	16	1				
		MN_8	16 15	16	3				
		ME_8	18 39	14		2			
		ME_9	28 12	16		2			
		MN_9	33 51	14	2				
		eW_2	12 02.2	20?					
	W_2 series	ME	07 51	16		1			
		MN	11 54	16	1				
		F	14 00						

Wm. O'Leary Jr.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

		V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N	1	221	8.3	4.1	0.02
	3	124	7.0	2.7	0.04
A_E	1	239	9.0	3.4	0.02
	3	140	8.5	3.3	0.10
A_Z	2	85	5.0	3.5	0.02

No.	Date.	Phase.	Time (*Greenwich*)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1929		h. m. s.	s.	μ	μ	μ	km.	
92	June 2	P	21 49 07	4				7100	h m s
		iS	57 39	8		+8		(63.9°)	0, 21 38 34
		i	58 35	8		-9			
		eL	22 06.7	16					
		MN	09 45	12	3				
		F	22 45						
93	" 4	eP	15 24 09					4780	h m s
		iS	30 29	6	+24	+1		(43.0°)	0, 15 15 57
		PS	30 34	6	23				
		iSR_1	33 11	6		+4			
		eL	36.6	15					
		MN_1	38 51	6	4				
		ME_1	42 05	6		6			
		MN_2 ME_2	46.2	12	6	4			
		F	16 20						
94	" 6	eP	15 50 20	4				3420	h m s
		eS	55 20	4				(30.8°)	0, 15 43 45
		ME_1	16 02 09	6		35			
		MN_1	02 14	6	32				
		ME_2	02 54	6		44			
		MN_2	02 58	6	34				
		ME_3	04 42	7		22			
		MN_3	05 44	7	17				
		ME_4	06 04	7		22			
		MN_4	07 10	8	19				
		ME_5	08 14	8		10			
		MN_5	08 46	8	13				
		F	17 15						
95	" 9	e	09 30.0						Obscured by heavy microseisms.
		eL	41.4	28					
		ME	47 38	12		2			
		MN_1	48 14	16	8				
		MN_2	50 05	16	8				
		F	10 10						
96	" 12	e	02 28.1						Very small.
		MN	35 33						
		ME	35 53						
		F	02 45						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
97	June 12	eP?	11 49 07					3270?	Heavy microseisms.
		iS	53 57	7	3½	1½			
			54 02	7	7	5			
			55 19	20	34	12			
			55 40	16	48	10			
			55 55	16	44	8			
		eL	58.1	20					
			59 06	24		53			
		MN_1	12 02 06	16	48				
		ME_1	02 26	14		32			
		MN_2	03 49	12	30				
		ME_2	04 04	12		25			
		MN_3	06 35	12	15				
		ME_3	06 07	12		28			
		ME_4	08 14	10		8			
		MN_4	08 19	10	13				
		F	13 20						
98	" 13	iP?	00 24 35						Kuriles.
		iS	34 18	6	-3½	-¼			
		eSR_1?	39 48	16					
		i	47 54	8	+3	-4			
			48 07	8	6	6			
		eL	48.5	24					
		MN_1	53 33	24	45				
		ME_1	58 12	24		13			
		MN_2	59 14	20	28				
		ME_2	01 02 11	20		17			
		ME_3	05 30	24		15			
		MN_3	06 33	24	52				
		ME_4	07 59	20		17			
		ME_5	13 40	20		9			
		MN_4	14 07	18	13				
		MN_5	18 04	18	25				
		F	03 00						
99	" 13	eP	09 33 24	4				5250	h m s
		iP	33 28	4	+4	-1¾		(47.3°)	0 09 24 39
		iPR_1	35 18	4	-10				
		iPR_2	36 15	4	-8	+7			
		iS	40 17	10	-8				
		PS	40 35	10	22				
			41 00	10	30	18			
		iSR_1	44 04	10	-44	+22			
			44 25	10	67	52			
		SR_2	45 07	10	27	22			
		SR_3	45 47	10	18	22			
		eL	47.8	15					
		ME_1	49 59	10		35			

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
99 (Cont?)	June 13	LE_2	09 52 43	12		64			
		LN_1	53 12	12	50				
		LZ_1	54 48	12			6		
		MN_2	56 19	12	38				
		LE_3	57 52	16		110			
		MZ_2	59 36	16			33		
		MN_3	59 45	16	130				
		ME_4	10 01 55	16		78			
		MN_4	04 10	15	59				
		ME_5	07 38	12		24			
		MN_5	09 47	13	23				
		ME_6	11 42	14		22			
		MN_6	14 29	12	14				
		CE_1	31 27	12		7			
		CN_1	34 25	12	11				
		CN_2	40 39	12	4				
		CE_2	42 43	12		3			
		CN_3	52 44	12	1				
		CE_3	59 27	12		2			
		eW_2	12 12.0	18					
	W_2 series	MN_1	16 13	16	2				
		MN_2	25 17	14	2				
		F	13 00						
100	" 13	eP	19 55 06						Very small.
		SR_2?	20 07.0						
		LE_1	20 39	15		2			
		MN	23 58	15	1				
		LE_2	26 22	15		2			
		F	21 00						
101	" 13	eP	23 09 15					5250 (47.3°)	
		iS	16 05	6	+3½				
			16 20	10	6				
		SR_1	19 47	8	6				
		SR_2	20 51	8	4	2			
		SR_3	21 11	8	4	5			
		eL	24.2	16					
		MN_1	29 31	12	11				
		MN_2	33 17	14	6				
		ME_1	34 13	14		5			
		MN_3	38 25	14	8				
		ME_2	39 39	14		5			
	" 14	F	00 30						
102	" 15	e	01 45.1						
		eL	58.1	20					
		MN	02 01 16	12	1				
		ME	04 34	12		1			
		F	02 25						
103	" 15	e	19 50.7						
		eL	20 06.4	18					
		MN	12 10	16	3				
		ME	12 54	16		2			
		F	19 40						

(Continued on next sheet.)

No.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
1	June 16	iP	22 51 45	4	+2	-4		2360 (21.2°)	Condensation. Azimuth (computed from iP):- 116½° (S. 63½° E.) hence, computed: φ, 42° S. λ, 175° E.
		i	51 49	4	-12	+15			
		i	51 53	4	-180	+415	-80		
		PR_1	52 07	4	150	490	100		
		PR_2	52 18	4	220	320+	150		
		PR_3	52 26	4	195	240	145		
			53 05	4	170	220			
		S	55 33	9?					
		SR_1	55 59	8	160	110			
		SR_2	56 10	8	210+	100+	240		h m s 0, 22 46 53
		SR_3	56 21	8	270+	250			
		eL	56.5	14					No. 1 seismograph partly deranged by
		MZ_1	56 46	12			470		shock. After iP
		ME_1	56 54	12		670+			reductions taken
		MZ_2	57 05	12			600		from No.3. NS. com
		ME_2	57 32	12		670+			ponent of No.3 out
		MZ_3	57 43	12			830		of commission from
		ME_3	58 10	12		670+			22h. 57m. to 23h.34
		MZ_4	58 37	11			560		
		ME_4	59 01	12		540+			
		MZ_5	59 09	12			710		
		MZ_6	59 38	12			680		
		ME_5	23 00 07	10		425			
		MZ_7	00 11	10			370		
		MZ_8	01 00	10			260		
		ME_6	02 10	10		470+			
		MZ_9	02 37	10			290		
		MZ_{10}	03 08	9			180		
		ME_7	03 13	10		470+			
		ME_8	04 32	10		370			
		MZ_{11}	04 58	10			150		
		MZ_{12}	07 19	10			260		
		ME_9	07 39	10		390			
		MZ_{13}	08 28	10			270		
		ME_{10}	10 13	11		365			
		MZ_{14}	12 31	10			355		
		ME_{11}	12 54	10		280			
		ME_{12}	14 11	12		290			
		MZ_{15}	15 28	11			175		
		ME_{13}	17 07	10		180			
		MZ_{16}	17 58	9			140		
		ME_{14}	19 45	9		170			
		MZ_{17}	20 13	10			195		
		ME_{15}	21 57	9		170			
		MZ_{18}	23 11	9			105		
		ME_{16}	24 39	9		120			
		ME_{17}	27 03	9		130			
		ME_{18}	28 49	9		80			
		ME_{19}	30 59	9		74			
		MZ_{19}	32 00	9			115		
		ME_{20}	33 27	10		120			
		MN	34 10		190				
		ME_{21}	35 01	10		100			
		ME_{22}	36 07	10		95			
		MN	37 17	10	100				
		ME_{23}	38 26	10		66			
		ME_{24}	40 10	9		33			

(Continued on next sheet

No.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	Amplitude. A_E μ	Amplitude. A_Z μ	Δ km.	Remarks.
	1929.								
104 Cont.	June 16	MN	23 42 15	9	74				
		MN	44 43	9	68				
		ME_{25}	48 10	9		29			
		MN	49 36	10	70				
		CZ_1	51 06	10			19		
		CE_1	51 55	10		8			
		CZ_2	53 40	10			22		
		CN_1	55 19	10	30				
		CN_2	58 15	10	32				
		CE_2	59 17	10		14			
	" 17	CE_3	00 00 42	10		10			
		CN_3	01 41	10	20				
		CN_4	10 14	9	12				
W_2	series	eW_2	01 33 42	20					
		MN_1	35 53	17	6				
		ME_1	36 14	16		3			
		MN_2	37 53	18	9				
		ME_2	39 49	16		2			
		MN_3	44 00	15	7				
		ME_3	46 42	20		7			
		MN_4	48 25	20	17				
		ME_4	49 14	17		7			
		ME_5	55 16	18		9			
		MN_5	55 23	20	29				
		ME_6	56 20	20		10			
		MN_6	56 50	20	23				
		ME_7	58 26	20		10			
		MN_7	02 01 18	20	29				
		ME_8	02 49	20		6			
		ME_9	08 12	18		8			
		MN_8	10 12	18	9				
		ME_{10}	12 53	20		3			
		MN_9	16 08	20	17				
		MN_{10}	22 10	20	2				Perhaps W_3.
		ME_{11}	22 50	20		2			
		F	03 45						
105	" 17	eP	10 26 10						
		eL	43.1	24?					
		ME_1	47 49	20		3			
		MN_1	48 46	12	2				
		ME_2	51 18	20		3			
		MN_2	53 48	16	3				
		F	11 25						
106	" 19	e	03 29.8						
		eL	34.6	22					
		ME_1	36 57	12		2			
		MN_1	37 07	12	2				
		MN_2	39 32	12	1				
		ME_2	42 08	10		2			
		F	04 10						
107	" 19	eP	07 39 27					5300	
		iS	46 26	6	2	¼		(47.7°)	
			46 30	8	5	3			
		SR_1	50 00	8	6				
			55 32	8		5			
		ME_1	08 02 11	12		9			
		MN_1	03 09	14	10				
		MN_2	10 44	14	8				
		ME_2	11 35	14		4			
		F	09 20						

(Continued on next sheet.)

No.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
[illegible]	June 19	iP	09 21 23	4	2	3½		2360	
			21 37	4	10	14		(21.2°)	
		iS	25 07	6		2			
		eL	26.0	14					
		MN_1	26 48	14	11				
		ME_1	27 06	14		11			
		ME_2	29 04	14		7			
		MN_2	29 20	12	7				
		MN_3	33 05	12	8				
		F	10 20						
109	" 19	e	12 05.7						
		eL	15.4	16					
		MN	17 06	10	5				
		ME	17 12	10		1			
		F	12 40						
110	" 19	e	22 36.7						
		eL	42.3	20					
		ME	43 07	13		1			
		MN	43 17	13	2				
		F	23 10						
111	" 20	eL_N	14 56.1	14					A few long waves.
		eL_E	58.1	16					
112	" 20	eP	18 35 04	4				3420	
		eS	40 04	8	1½			(30.9°)	
		eL	45.6	18?					
		MN_1	50 05	12	2				
		MN_2	57 03	12	3				
		F	19 30						
113	" 20	e	20 46.0						A few long waves.
		eL	47.2	14					
114	" 22	iP	15 34 28	4	-6	+7		2190	New Zealand.
			34 37	4	30	44	5	(19.7°)	Aftershock of
		iS	38 04	8	+7	-10			No. 104.
			38 14	8	8	19			
			38 24	8	25	12			
		eL	39.4	18					h m s
		MN_1, MZ_1	40 11	15	46		30		0, 15 29 54
		ME_1	40 16	16		60			
		MN_2	41 55	12	33				
		MZ_2	42 07	14			25		
		ME_2	42 13	14		72			
		ME_3	43 14	12		43			
		MZ_3	44 12	13			14		
		MN_3	45 17	12	30				
		ME_4	46 23	12		24			
		MN_4	47 51	11	17				
		ME_5	50 23	11		18			
		MN_5	53 05	12	15				
		ME_6	53 53	11		21			
		MN_6	57 11	11	19				
		ME_7	16 02 17	10		15			
		MN_7	03 03	10	11				
		CN_1	18 04	12	5				
		CE_1	20 48	12		3			
		CN_2	27 25	12	3				
		CE_2	29 31	12		2			
		CE_3	31 48	14		3			
		CN_3	33 13	12	4				
		F	lost in No. 115.						

(Continued on next sheet.)

1929, June.

COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

LOGICAL BULLETIN.

litude.	Az	Δ	Remarks.

		23	14		2		
		15 39	14	2			
		18 21	14		2		
		23 41	14	2			
		25 13	16		4		
F	22 45						
iP	13c00 18						9000? iP from vertical, lost during hour interval on other components.
i	00 35	6		7			
PR_1	04 19	6		11			
PR_2	06 43	6		10	1		
iS	10 49	8		-14			
	11 20	10		35	4		
PS	11 31	10		35			
	12 15	8		20			
PPPS	12 41	18		99	13		
	13 11	18		170			
SR_1 ?	17 58	15		78			
SR_2 ?	22 21	15		32	28		
e_E	25.0	34					Love waves?
	25 41	25			250		
	27 43	38			180		
	28 22	38			170		
eL_N	31.0	50					Rayleigh waves.
	31 06	28			155		
	31 25	50		830			
	33 03	28		225			
ME_1	34 19	22			80		
MZ_1	35 28	22				44	
MN_1	35 51	22		160			
MZ_2	36 40	22				66	
MN_2, ME_2	37 04	22		180	120		
MZ_3	39 30	21				60	
MN_3	40 37	18		340			
ME_3, MZ_4	40 52	18			180	220	
MN_4	40 58	18		330			
ME_4	41 08	18			170		
MZ_5	43 48	18				44	
ME_5	45 06	18			100		
MZ_6	47 14	18				58	
MN_5	47 19	18		210			
MZ_7	49 37	18				44	
MN_6	49 41	18		170			
ME_6	51 05	18			88		
MN_7	52 03	17		130			

(Continued on next sheet)

No. 6 (continued) RIVERVIEW COLLEGE OBSERVATORY, 1929, June.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Phase.	Time (Greenwich) h.	m.	s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	MZ_8	13	52	16	17			37		
	ME_7		53	15	17		42			
	MN_8		57	00	17	85				
	ME_8	14	03	18	17		18			
	ME_9		07	36	16		21			
	MN_9		08	07	16	39				
	ME_{10}		12	20	20		42			
	MN_{10}		12	31	20	34				
	ME_{11}		16	04	18		63			
	MN_{11}		18	29	18	49				
	ME_{12}		19	02	16		45			
	MN_{12}		24	14	18	38				
	CE_1		26	57	16		22			
	CN_1		28	43	18	13				
	CN_2		33	13	18	19				
	CE_2		34	31	18		9			
	CN_3		37	49	18	13				
	CE_3		40	11	18		19			
	eW_2	15	01	.4	22					
W_2 series	MN_1		02	37	18	10				
	ME_1		04	17	20		9			
	MN_2		05	45	20	12				
	ME_2		09	37	20		5			
	MN_3		10	50	20	20				
	MN_4		14	32	20	12				
	ME_3		17	53	20		9			
	MN_5		20	29	20	16				
	ME_4		21	45	20		8			
	MN_6		24	04	20	11				
	ME_5		25	31	18		4			
	MN_7		30	58	18	9				
	ME_6		34	15	18		3			
	MN_8		39	10	18	6				
	MN_9		50	19	18	4				
	ME_7		58	49	18		3			
	MN_{10}	16	10	44	16	3				
	ME_8		12	51	18		3			
	MN_{11}		15	19	16	5				
	eW_3	17	06	.3	18					Perhaps eW_3 at 16 50.5 with period of 20 sec.
W_3 series	MN_1		11	12	18	4				
F	~~MN~~	18	10							
118 28	e	01	27	.7						
	eL		32	.1						Very small.
	ME		34	55						
	MN		37	20						
	F	01	50							
119 30	e	02	54	.3						
		03	04	28	10					Obscured by heavy microseisms.
		XX	ØØ		XX					
	L?		13	.3	19					
	MN_1		15	18	12	14				
	vME_1		16	06	12?					
	MN_2, ME_2		22	47	16	23	20			
	MN_3		24	49	14	7				
	ME_3		25	05	14		9			
	F	04	00							

Wm. O'Leary S.J.

No. 7 1929, July.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

		V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N	1	218	8.2	4.1	0.02
	3	134	6;5	3.5	0.05
A_E	1	226	9.3	2.7	0.03
	3	135	8.6	2.9	0.10
A_Z	2	90	5.0	3.6	0.089

Date.	Phase.	Time (Greenwich) m. s.	Per. s.	Amplitude. A_N μ	Amplitude. A_E μ	Amplitude. A_Z μ	Δ km.	Remarks.
1929 July 3	e	17 56.5						
	e(S)	18 04.2			7			
		04 41	15					
		07.1	20		9	3		
	eL	08 31	18					
	MN_1	09 34	16		1			
	ME	13 32	14				9200 (82.8°	
	MN_2	18 40						
	F	14 32 00						
	eP	42 25						
5	eS	55.4						
		15 01			5			
	MN_1	04	20					
	MN_2	04 47	20		1			
	ME_1	01 05	20					
	MN_3	M 24	18		5			
	ME_2	10 35						
	MN_4	10 26			1	5		
	ME_3	10 36						
	MN_5	25 11			1			
	ME_4	37 04						
	MN_6	42 08						
	MN_7	36 22			4			
	ME_5	37						
	MN_8	39 14						
	ME_6	44 11						
	ME_7	34.4						
16	eN_2	43						
	MN_1	47 23						
	MN_2	47 47						
	ME	51 12						
	MN_3	55					9110 (82.0°	
	MN_4	17 45						
	F	22 49						
	eP	23 5						
	eS				5			
	eL				5			
	MN_1				6			
	MN_2				20			
	ME_1				16			
	MN_3				20.1			
	ME_2							
	ME							
	MN							

series

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
123	July 6	eP?	02 17 08					8860?	
		e(S?)	27 18	10?					
		e(L?)	39.5	20?					
		MN_1	50 39	14	2				
		MN_2	55 33	13	1				
		F	03 25						
124	" 6	e(L?)	06 47.0						
		ME_1	52 23	14		1			
		MN_1	53 56	14	2				
		ME_2	55 15	14		1			
		MN_2	59 13	14	2				
		F	07 10						
125	" 6	e	11 31.4						Very small.
		cMN	37 31	16					
		F	12 00						
126	" 7	eP	21 36 02					9370	h m s
		i	36 14	4	+2	+2		(84.3°)	0, 21 23 30
		iS	46 34	8	+8				
			46 42	8	9	1			
		i	46 57	8		-12			
		PS	47 04	8	10	12			
			53 14	26	55	40			
			59 34	16		15			
		eL	22 01.5	32					
		MN_1	04 52	18	30				
		ME_1	05 33	20		19			
		MN_2	08 13	22	81				
		MZ_1	08 25	20			17		
		ME_2	09 00	20		46			
		MN_3	11 16	20	62				
		MZ_2	11 22	20			26		
		ME_3	14 16	20		37			
		MN_4	14 54	20	58				
		MZ_3	16 36	20			17		
		ME_4	18 22	20		14			
		MN_5	19 02	18	27				
		ME_5	21 27	18		27			
		ME_6	24 45	18		36			
		MZ_4	25 18	18			22		
		MN_6	25 43	18	40				
		ME_7	27 28	18		35			
		MN_7	28 13	16	17				
		ME_8	31 00	18		17			
		MN_8	33 00	18	19				
		ME_9	35 49	18		10			
		MN_9	36 40	18	18				
		ME_{10}	40 16	18		4			
		MN_{10}	40 31	18	13				
		CN_1	56 28	16	6				
		CN_2	58 54	16	6				
		CE_1	59 10	16		2			
		CE_2	23 02 56	16		2			
		CN_3	03 04	16	5				
		CE_3	07 25	16		2			
		CN_4	10 31	16	3				
		CN_5	15 45	16	5				

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
126 cont.	July 7	eW_2	23x34.8	24					
		ME_1	36 14	20		3			
		MN_1	39 01	24	14				
		MN_2	47 00	20	12				
		ME_2	48 01	20		9			
		ME_3	52 14	20		5			
		MN_3	57 00	18	11				
	" 8	MN_4	00 03 00	18	10				
		F	lost in No.127.						
127	" 8	iP	00 46 52	4	-2	+2		2210	
		eS	50 30	6				(19.9°)	
		eL	51.0	20					
		MN_1	51 46	13	12				
		ME	52 38	12		3			
		MN_2	53 16	12	9				
		F	01 55						
128	" 10	e	05 01.3						Very small. Obscured by microseisms.
		i	01 32						
		MN	05 40						
		F	05 10						
129	" 13	eP	14 56 39					2860	
		PR_1	57 09	6	2			(25.7°)	
		iS	15 01 01	10	-5	+4			
			01 30	10	13				
		SR_1	02 04	7	5	2			
		iSR_2	02 31	7		+4			
		SR_3	02 50	7		4			
		iL	04 32	20?					
		ME_1	06 20	16		15			
		ME_2	07 34	16		39			
		MN_1	07 40	16	17				
		ME_3	10 04	14		17			
		MN_2	11 12	14	23				
		MN_3	14 10	10	13				
		F	15 50						
130	" 14	e	05 57.0						
		eL	06 08.1	22					
		ME_1	10 37	18		6			
		MN_1	11 32	14	3				
		ME_2	13 29	13		4			
		MN_2	15 04	14	6				
		F	06 55						
131	" 14	e	09 19.3						
		e(S?)	25 30						
		eL	35.0	20					
		MN_1	40 12	18	4				
		ME_1	40 52	16		2			
		ME_2	43 08	16		2			
		MN_2	45 02	16	6				
		ME_3	45 24	14		2			
		F	Lost in No.132.						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
[illegible]	July 14	eP	09 48 42					8400	
		iS	59 29	6	-2	-2		(75.6?)	
		PS	59 51	6	6	3			
		eL	10 12.1	6					
		MN_1	19 54	18	13				
		ME_1	21 07	16		2			
		MN_2	21 37	20	17				
		ME_2	26 55	16		2			
		F	11 00						
133	" 15	e	08 01.5						
		i	06 02	6	-6	+10			
		L	07.6	20					
		ME_1	08 16	16		12			
		MN_1	08 40	18	11				
		ME_2	09 10	18		24			
		ME_3	10 04	14		13			
		MN_2	10 19	14	13				
		F	09 10						
134	" 16	e	01 02.1						
		eL	09.1	20					
		ME	11 25	16		3			
		MN	14 07	12	3				
		F	01 30						
135	" 17	eS	09 01 17	6					
		eL	22.4	24					
		MN_1	27 58	18	4				
		MN_2	29 30	18	4				
		F	09 55						
[illegible]	" 17	e	20 07.1						Very small.
		eL	12.0	?					
		MN	15 24						
		ME	15 30						
		F	20 50						
[illegible]	" 21	eL	10 23.4						
		MN_1	26 19	14	2				
		MN_2, ME_1	28 24	12	2	1			
		ME_2	34 00	10		1			
		F	11 00						
138	" 24	eP	03 12 48	4				2600	
		iPcP	16 02	4	6			(23.4°)	
		iS	16 52	4	2				
		SR_1	17 35	4	5				
		eL	19.0	14					
		MN_1, ME	22 00	10	3	1			
		MN_2	24 29	8	1				
		F	03 40						
139	" 26	eL	11 53.3	?					
		ME	54 18	14		2			
		MN	54 26	14	3				
		F	12 30						
140	" 29	e	11 11.1						
		ME	18 50	18		3			
		MN	20 14	14	3				
		F	11 35						

Wm O'Leary S.J.

No.

1929, 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 2	204	8.4	3.9	0.02
A_N 3	108	6.4	2.6	0.04
A_E 1	225	9.4	3.6	0.03
A_E 3	145	8.6	3.2	0.07
A_Z 2	92	5.0	3.3	0.09

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
141	Aug. 1	eP	05 12 28					8140	
		iS	22 10	5	+12	-2		(73.3°)	
			22 16	5	16				
		eL	34.0	44?					
		ME_1	42 28	28		4			
		MN_1	43 40	28	8				
		ME_2	44 29	28		7			
		F	06 35.						
142	" 1	e	08 21,6						
		eL	29.6	16					
		MN_1	31 10	14	3				
		ME_1	31 28	18		4			
		MN_2, ME_2	34 00	12	2	1			
		F	09 15						
143	" 2	e	09 21.5						
		eL	2615	20					
		MN	27 50	14	3				
		ME	29 00	13		2			
		F	~~13 40~~						h m F 09 50
144	" 3	eP	12 57 20					4200	
		iS	13 02 31	8	+4	+3		(37.8°)	
		eL	07.6	24					
		ME	10 24	14		4			
		MN	10 48	18	8				
		F	13 40						
145	" 3	iP	15 01 32	6	-4	-1¾		3040	h m s
		iS	06 06	10	23	4		(27.4°)	0, 14 55 32
		P_cS	08 21	8		2			
		eL	09.6	18					
			10 13	13	7	14			
			10 25	13	9				
			10 40	13	7				
			10 54	13	11				
		ME_1	11 07	15		9			
		MN_1	12 43	14	22				
		ME_2	13 54	12		5			
		MN_2	16 00	12	8				
		ME_3	16 08	12		3			
		MN_3	17 06	12	8				
		MN_4	20 10	14	14				
		ME_4	20 22	14		4			
		F	16 20						
146	" 3	iS?	19 33 05	8					Very small.
		eL	38.9	?					
		ME	46 40	12					

(Continued on next sheet)

No. [illegible] (continued) [illegible].

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
147	Aug. 4	eP	22 27 16					6280	
		eS	35 06					(56.5°)	
		eL	44.7	30					
		MN_1, ME_1	48 16	20	5	4			
		ME_2	51 52	20		3			
		MN_2	51 58	20	4				
		F	23 10						
148	" 6	e	02 38.1						Very small.
		M	41.0						
		F	03 00						
149	" 6	e	03 35.4						" "
		ME	50 25	14					
		F	04 10						
150	" 6	eL	12 45.1	16?					" "
		MN	47 38	12					
		F	13 05						
151	" 6	i	17 34 05	5	+10				
		eL	42.4	?					
		MN	43 10	15					
		F	17 50						
152	" 8	eP	13 08 53					8200	
		eS	18 32	7				(73.8°)	
		PS	19 06	7					
		eL	31.9	18					
		MN_1	36 42	28	16				
		MN_2	38 39	24	22				
		MN_3	41 53	20	20				
		ME_1	42 03	26		22			
		MN_4	43 54	20	15				
		ME_2	44 10	26		9			
		ME_3	46 10	20		14			
		MN_5	47 14	19	11				
		ME_4	49 09	19		11			
		ME_5	51 27	19		3			
		MN_6	53 01	19	7				
		MN_7	59 45	18	6				
		F	15 20						
153	" 11	e	18 10.9						Obscured by heavy microseisms.
		e	14.5						
		eL	16.7	16					
		ME	18 07	13		2			
		[illegible]	18 13	13	2				
		MN_2	29 39	13	3				
		F	18 55						
154	" 14	i	02 29 51	4	2				
		eL	32.2	24					
		MN_1	33 37	13	2				
		MN_2	36 25	14	2				
		F	03 05						

(Continued on next sheet)

No. 8 (continued) 1929, August.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
155	Aug. 16	e(P?)	21 39.0					4000	Felt st Broome
		iS	41 52	6	7	1¾			and Port Headland
			43 01	6	15				Western Australia.
			43 16	6		12			
			43 58	5		2			P masked by very
			45 41	5	25				heavy microseisms.
		ME_1	45 44	6		26			
		ME_2	46 17	5		29			
		MN_1 MZ_1	46.7	4	67		5		
		MN_2	46 50	6	72				
		MN_3	47 08	6	80				
		MN_4 ME_3	47 25	5	76	2929			
		MZ_2	47 37	4			7		
		ME_4	47 51	5		22			
		MN_5	48 09	6	38				
		ME_5	48 33	6		22			
		MN_6	48 51	6	29				
		ME_6	49 33	6		21			
		MN_7	49 40	6	33				
		MN_8	50 39	8	25				
		ME_7	51 39	7		11			
		ME_8	52 52	8		13			
		MN_9	53 01	7	15				
		F	23 25						
156	" 18	iP	08 40 25	4	-4	+1½		2800	Macquarie Is.?
		iS	44 52	10	-5	-2		(25.2°)	
			45 11	14		26			
			45 18	14	47				
		eL	47.2	24					
		ME_1	48 04	20		25			
		MN_1	48 37	20	83				
		MN_2	49 23	18	50				
		ME_2	49 47	18		32			
		MN_3	50 10	16	39				
		ME_3	50 34	16		33			
		MN_4	51 00	16	40				
		ME_4	51 36	14		25			
		MN_5	52 27	14	33				
		ME_5	55 13	12		6			
		MN_6	56 06	12	11				
		F	10 30						
157	" 19	i(P?)	02 52 37	7					
		iS	03 02 15	7	4				
		eL	16.2	24					
		MN_1	20 25	20	8				
		MN_2	25 39	18	4				
		MN_3	27 16	20	8				
		F	04 20						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
158	Aug.22	eP	07 39 26					2470	
		PR_1	39 55	5	5	3		(22.2°)	
		iS	43 21	6	7	4			
		eL	45.9	18					
		MN_1	47 59	13	11				
		ME_1	48 46	12		3			
		MN_2	49 16	10	6				
		MN_3	52 36	10	5				
		ME_2	53 15	10		3			
		MN_4	55 21	10	3				
		ME_3	58 08	12		5			
		MN_5	58 19	12	8				
		ME_4	59 21	12		4			
		F	08 45						
159	" 24	e	02 58.3						
		i	59 19	4		2½			
		i	03 00 17	4	5½				
		i(S?)	02 49	4	3	2			
			03 20	8	7	2			
			04 16	8	6				
		eL	05.3	16					
		M	08 24	12	2	1			
		F	03 40						
160	" 29	e	10 20.9						
		eL	25.4	16					
		M	33 32	12	2				
		F	10 45						
161	" 30	eP	07 15 29					1820	
		S	18 35	6				(16.4°)	
		eL	20.7	16					
		ME_1	21 21	16		5			
		MN_1	26 00	14	3				
		MN_2	29 31	12	2				
		ME_2	29 45	12		1			
		F	07 50						

W. H. Leary S.J.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

	V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N (1)	213	8.4	3.6	0.02
A_N (3)	113	7.0	2.7	0.04
A_E (1)	234	9.5	3.6	0.02
A_E (3)	182	7.7	3.1	0.12
A_Z (2)	84	5.0	3.4	0.09

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
162	Sept. 1	e	16 00 03						Masked by heavy microseisms.
		eL	06.9	18					
		ME_1	09 03	16		11			
		MN	10 42	13	5				
		ME_2	11 56	13		7			
		F	16 50						
163	" 2	i(S?)	11 28 19	6		4			Earlier plases masked by heavy microseisms.
		i(SR_1)	31 17	7		3			
			31 48	8		3			
			32 01	8		3			
		ME_1	38 53	13		7			Perhaps two or more shocks.
		ME_2	39 11	13		7			
		MN_1	40 27	15	12				
		ME_3	43 52	17		8			Rayleigh waves.
		MN_2, ME_4	50 28	14	10	8			
		MN_3	55 25	14	5				
		F	12 30						
164	" 14	e	02 17.7						
		S?	22 04	6?					
		SR_1	23 10	8	2				
		eL	25.4	26					
		MN	28 04	16	4				
		F	02 50						
165	" 16	e	20 18.9						Very small.
		eL	27.4						
		F	20 45						
166	" 17	e	19 40.1						
		e(SR_1)	52 06	16?					
		eL	20 02.7	32					
		L	07 30	32					
		ME_1	17 41	20		5			
		ME_2	24 11	20		3			
		MN	24 43	20	4				
		ME_3	45 43	16		3			
	W_2 series	eW_2	21 21.4	24?					
		MN_1	21 53	20	4				
		ME_1	34 50	20		5			
		MN_2	27 11	20	4				
		ME_2	33 20	20		3			
		F	22 40						
167	" 22	e	02 27.0						Phases masked by strong microseisms.
		MN	28 36	12	4				

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
168	Sept.24	eP	01 36 36					2920	
		eS	41 01	8				(26.3°)	
		eL	43.4	18					
		MN_1	46 35	10	2				
		ME	48 53	12		1			
		MN_2	51 27	10	3				
		F	02 05						
169	" 26	eP	07 52 08					2880	
		iS	56 31	8		1½		(25.9°)	
		eL	08 01.0	14					
		MN	02 25	12	9				
		ME	02 31	12		2			
		F	08 30						
170	" 29	e	06 26.5						A few shallow long waves.
			38.5						

Wm Neary Sy.

No. 10

1929, October.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

	V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N (1)	218	8.4	4.2	0.02
A_N (3)	136	8.7	2.4	0.03
A_E (1)	243	9.8	4.8	0.02
A_E (3)	130	7.0	2.2	0.10
A_Z (2)	92	5.0	3.6	0.09

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
171	Oct. 5	e	02 56.8						
		eL	03 01.8	14					
		MN_1	03 51	8	1				
		ME_1	04 10	8		1			
		ME_2	08 25	8		1			
		MN_2	12 39	10	1				
		F	03 35						
172	" 5	e	05 15.6						
		eL	19.5	?					
		ME	21 22	15		5			
		MN	22 50	12	1				
		F	05 40						
173	" 5	e	17 14.9						
		e	23.1	12					
		eL	41.3	28					
		MN	45 22	24	7				
		ME	54 12	20		2			
		F	18 20						
174	" 6	eP	08 03 08	3				8060	
		iS	12 40	7	2	1		(72.5°)	
		iPPPS	13 23	7		3			
		eSR_1	17 22						
		eL	25.3	20					
		ME_1	28 58	20		16			Rayeligh.
		ME_2	31 54	20		16			
		MN_1	34 28	20	11				
		ME_3	37 20	16		7			
		MN_2	38 20	16	6				
		ME_4	41 30	15		6			
		MN_3	46 24	14	5				
		F	10 10						
175	" 6	e	13 20.6						
		e	24.3						
		eL	27.7	16					
		MN_1	30 20	14	10				
		ME_1	31 39	15		6			
		MN_2	32 16	10	8				
		ME_2	34 54	14		6			
		F	14 30						
176	" 7	e	15 19.3						
		eL	22.3	20					
		MN	25 50	14	6				
		ME_1	25 52	16		7			
		ME_2	27 28	16		11			
		F	16 00						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
177	Oct. 8	P	17 22 23	3				2980	
		iP	22 47	5		5		(26.8°)	
			23 00	5		8			
		iPR_1	23 17	7		20			
		eS	27 21	11					
		iSR_2	28 49	13	21				
		eL	30.2	24					
		ME_1	31 41	18		37			
		MN_1	31 57	14	77				
		MN_2	33 37	13	74				
		ME_2	34 07	13		22			
		MN_3	36 33	13	40				
		ME_3	36 38	13		16			
		MN_4	39 47	13	34				
		ME_4	45 19	13		13			
		F	19 10						
178	" 10	e	10 54.9						
		eL	58.9	16?					
		MN_1	11 01 11	14	10				
		ME_1	01 20	14		5			
		MN_2	03 09	12	17				
		ME_2	03 09	11		3			
		MN_3	04 15	10	8				
		ME_3	05 08	10		1			
		F	11 25						
179	" 14	e	03 41.9						
		i	46 43	4	4				
		eL	50.1	18					
		MN	51 17	12	10				
		ME	52 37	14		17			
		F	04 15						
180	" 15	e	08 18.8						
		eL	20.8	16					
		MN	22 25	13	2				
		F	08 30						
181	" 16	e	01 32.4						
		ME	36 10	10		2			
		MN	37 15	10	2				
		F	01 55						
182	" 16	e	18 32.9						
		MN	39 18	16	3				
		ME	42 22	16?					
		F	18 55						
183	" 16	eL	20 58.3	?					
		MN_1	21 15 26	16	3				
		ME_1	17 00	16		2			
		MN_2	19 16	16	3				
		ME_2	22 26	16		2			
		F	21 50						
184	" 16	eL	22 12.3	16					
		ME	15 24	14		1			
		F	22 35						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
185	Oct. 19	eP'	10 32 06	4					Chile.
		i	32 51	6	5	4			
		PR_1	33 11	6	2	2			
		ePR	38 46	9					
		ePS	41 47	20?					
			42 25	20	28	15			
		PPS	42 53	20	28	15			
		eSR	47 42	16					
		i	48 27	17		48			
			52 27	28	39				Love waves.
			52 45	28	29	22			
		e	59.7	30					
			11 00 13	30	34	36			
			01 03	30	67	43			
		eL	05.6	28					Rayleigh.
		ME_1	09 07	20		8			
		MN_1	09 25	20	16				
		ME_2	21 05	20		6			
		MN_2	26 19	20	7				
		MN_3	30 20	20	7				
		ME_3	31 00	16		2			
		MN_4	33 49	20	6				
		eW_2	12 24.7	32?					W_2 series
		ME	27 35	18		1			
		MN	31 03	18	2				
		F	12 55						
186	" 21	e	10 56.7						Very small.
187	" 21	eL	11 22.3	24					
		MN	23 32	20	7				
		ME	24 20	18		3			
		F	11 30						
188	" 24	e	04 59.6						
		eS?	05 03.0	6					
		eL	05.2	26					
		ME	06 27	16		3			
		MN	06 52	16	3				
		F	05 25						
189	" 25	e	05 24.4						
		eL	32.3	24					
		MN	34 37	20	7				
		ME	34 43	20		5			
		F	06 00						

Wm. Neary S.J.

No. 11 1929, November.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

	V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N (1)	225	8.2	4.0	0.02
A_N (3)	91	13.1	4.8	0.005
A_E (1)	234	9.5	4.0	0.02
A_E (3)	80	9.6	3,8	0.008
A_Z (2)	91	5.1	3.2	0.10

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	Amplitude. A_E μ	Amplitude. A_Z μ	Δ km.	Remarks.
	1929								
190	Nov. 3	e	07 20.5						Very small.
		eL	24.1						h m s
191	" 4	eP	15 37 51	4				3060	0, 15 31 42
		eS	42 27	?				(27.5°)	
			42 38	11					
		eL	45.4	20					
		ME_1	47 21	16		5			
		MN_1	48 00	16	11				
		ME_2	48 25	16		10			
		MN_2	49 02	16	14				
		MN_3	50 11	16	20				
		F	16 30						
192	" 5	e	11 48.6						
		e (PR)	48 48						
		eS	53.8	8					
		SR_1	57 24	10	2	2			
		eL	12 03.1	20					
		MN_1	05 17	16	7				
		ME_1	06 50	16		4			
		ME_2	11 50	16		3			
		MN_2	13 06	16	6				
		F	12 45						
193	" 10	e	08 33.7						
		eL	43.7	20					
		ME_1	45 46	14		4			
		MN_1	47 57	12	2				
		ME_2	48 45	12		2			
		MN_2	51 15	12	3				
		ME_3	53 22	12		1			
		F	09 15						
194	" 13	eP	00 42 30					5000	
		eS	49 05					45.0°)	
		eL	56.6	24					
		MN_1	01 00 49	20	7				
		ME_1	01 29	20		9			
		MN_2	05 00	20	12				
		ME_2	05 09	20		15			
		MN_3	07 05	18	9				
		ME_3	07 35	20		9			
		ME_4	10 45	18		3			
		MN_4	13 33	16	4				
		F	01 45						

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
195	Nov. 14	eP	20 51 21					4720	
		iS	57 41	4	1	2		(42.5°)	
		iSR_1	21 00 59	7		2			
		eL	03.7	12					
		ME	05 35	8		½			
		MN	06 10	8	1				
		F	21 40						h m s
196	" 15	eP	18 58 15					4760	0, 18 50 03
		iP	58 19	4	-5			(42.8°)	
			58 25	6	11				
		iPR_1	19 00 01	8	16				
		P_cP	00 09	6	14				
		iS	04 37	12	-140				
		PS	04 51	16	230				
		iSR_1	07 47	9	34	+18			
		S_cS	08 07	9	48	36			On EW record from 19h 09m 00s to 19 11 00 complex long waves repeated Also on NS from 19 09 53 to 11m 20s and from 12m 45s to 14m 00s.
		i(L?) N	11 21	10	+120				
		eL_Z	11 25	30					
		ME_1	11 25	8		55			
		MZ_1	11 47	30			250		
		ME_2	12 29	8		68			
		ME_3	14 07	14		190			
		MN_1, ME_4	14 55	16	530	720			
		ME_5	15 33	12		400+			
		MN_2	15 35	12	280				
		MZ_2	16 08	12			90		
		ME_6	18 16	12		160			
		MN_3	18 31	12	160				
		MN_4	20 07	12	150				
		ME_7	20 29	12		130			
		MN_5	21 37	14	180				
		MN_6	23 19	10	51				
		MN_7	24 35	12	100				
		ME_8	24 45	12		100			
		MN_8	26 21	12	130				
		MN_9	28 55	12	63				
		ME_9	29 51	12		48			
		ME_{10}	33 39	12		54			
		ME_{11}	38 21	12		34			
		CN_1	45 06	10	19				
		CE_1	46 17	12		14			
		CN_2	48 53	12	20				
		CE_2	50 51	10		10			
		CN_3	53 09	12	18				
		CE_3	57 25	12		12			
		eW_2	21 33.7	20					W_2 series.
		MN_1	39 40	20	5				
		MN_2	45 23	18	9				
		F	22 35						
197	" 16	e	23 40.1						
		eL	42.5	16					
		MN_1	43 57	13	4				
		MN_2	45 44	12	4				
	" 17	F	00 05						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
198	Nov.17	iP_1	03 51 41	4	-2			5300	
		iP_2	51 55	4	-4	-7			
		iS	58 48	8	33				
		PS	59 00	8	21	24			
		SR_1	04 02 15	12	90	88			
		eL	06.5	?					
		ME_1	07 15	13		45			
		MZ_1	08 35	18			39		
		MN_1	10 43	18	135				
		ME_2	11 09	18		180			
		MZ_2	11 41	18			40		
		MN_2, ME_3	13 27	15	83	120			
		MN_3	15 50	14	82				
		ME_4	16 08	14		85			
		MN_4, ME_5	18 00	12	44	50			
		ME_6	21 07	12		46			
		F	05 55						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	Amplitude. A_E μ	Amplitude. A_Z μ	Δ km.	Remarks.
	1929								
109	Nov. 18		6 hrs.						
	" 18	P^1	20 52.1						
		i	55.1						
		PR_2	21 02.8						
		PS_cP_cS?	06.4						
		PPPS?	11.4						
		SR_2	22.8						
		eL	43						
		eM_Z	56						
		MZ_1	22 00	20			130		
		MN_1	04	20	28				
		ME_1	05	16		37			
		MN_2	21	18	18				
		MZ_2	21	20			130		
		ME_2	25	16		29			
		MN_3	29	18	25				
		ME_3	29	16		36			
		F	22 55						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
201	Nov, 22	e	15 47.5						
		i	51 43	4		3			
		eL	53.1	20					
		ME_1	54 17	16		2			
		MN_1	55 55	14	2				
		ME_2	56 38	13		1			
		MN_2	57 15	13	3				
		F	16 20						
									h m s
202	" 23	eP	00 08 17					3500	0, 00 01 34
		eS	13 23					(31.5°)	
			13 33	12	12	4			6½° S.
			14 00	12	13	8			135° E.
			17 01	10		15			
		eL	18.1	12					
		MN_1	18 57	9	58				
		ME_1	19 07	8		55			
		ME_2	19 29	7		92			
		MZ_1	19 34	6			18		
		ME_3	19 48	6		97			
		MZ_2	19 55	6			23		
		ME_4	20 01	10		110			
		MN_2, ME_5	21 00	9	86	97			
		MN_3	21 31	9	100				
		ME_6	22 07	10		105			
		MN_4	22 11	6	77				
		MN_5, MZ_3	23 04	8	65		48		
		ME_7	23 25			105			
		ME_8	23 57	8		87			
		MN_6	24 12	12	110				
		ME_9	25 31	9		55			
		MN_7	25 55	8	53				
		MN_8	27 18	9	50				
		ME_{10}	27 31	8		67			
		MN_9	29 45	8	35				
		CN_1	37 18	10	22				
		CE_1	37 29	8		13			
		CN_2	41 12	8	11				
		CE_2	42 40	9		9			
		CN_3	45 00	8	9				
		CE_3	46 25	9		5			
		F	02 40						
203	" 25	e	13 26.1						Very small.
		vMN	28 33	6					
		ME	30 47	6					
		F	13 40						

W^m. Geary S.O.

No. 12 1929, December.

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

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

INSTRUMENTS:

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

		V	T_o	ϵ:1	$\frac{r}{T_o^2}$
A_N	1	216	8.3	4.2	0.02
	3	90	12.8	10.0	0.005
A_E	1	227	10.0	5.0	0.017
	3	75	9.6	5.6	0.01
A_Z	2	87	5.1	3.2	0.04

No.	Date.	Phase.	Time (*Greenwich*) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
204	Dec. 3	eP?	07 42 02						
		e	47 22						
		i	51 40	5		4			
			52 26	5		9			
			53 52	6	15				
		i_Z	54 05	5			4		
			54 07	5		14			
		i(L?)	56 12	12?					
		MN	56 40	10	40				
		ME	57 40	9		21			
		F	08 50						
205	" 6	e	12 01.7	10					
		eL	27.2	20					
		ME	29 44	16		2			
		MN_1	30 20	18	6				
		MN_2	36 24	16	5	5			
		F	13 05						
206	" 6	ePR_1	17 03 18	4				10,000	
		ePR_2	07 07	6					
		e(S_cP_cS)	10 23	16?					
		eS	10 43	13					
		e(PPS)	12 12	12					
		e(P_cSS_cP)	14 42	16					
		e(SR_1)	17 09	?					
		e($P_cP_cP_cP$)	17 43	12					
		eSR_2	21 28	12					
		e(L?)	24.7	20					
		eL	33.3	24					
		ME_1	37 40	20		3			
		MN_1	39 07	20	14				
		ME_2	45 17	18		2			
		MN_2	46 02	18	17				
		MN_3	50 50	16	8				
		ME_3	53 44	16		3			
		MN_4	54 04	14	4				
		ME_4	58 14	14		2			
		F	19 10						
207	" 6	e	20 42.8						
		eL	21 06.1	22					
		MN_1	13 00	18	10				
		ME_1	15 16	16		5			
		MN_2	15 50	18	10				
		ME_2	18 33	16		3			
		MN_3	19 36	16	5				
		F	22 40						

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RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
	1929								
208	Dec. 9	iP_Z	07 00 25	3				7550	h m s
		iS	09 19	4	6			68.0°)	0, 16 49 21
		PS	09 37	6	6				
		SR_3	18 05	11	5				Ep. 4° N.
		eL	20.6	18					91° E.
		MN_1	25 11	15	74				
		ME_1	27 06	13		20			
		MN_2	27 36	12	32				
		MZ_1	28 42	16			16		
		ME_2	29 17	16		39			
		MN_3	30 43	12	31				
		MZ_2	32 33	16			21		
		ME_3	32 45	15		25			
		ME_4	34 37	13		22			
		MN_4	35 00	11	19				
		F	09 25						
209	" 13	eP	08 27 12					3230	
		eS	32 02	8				(29.1°)	
		eL	34.8	20					
		MN	38 06	15	4				
		ME	40 08	15		2			
		F	09 15						
210	" 16	iP_1	00 50 24	3	2		1½	2540	
		iP_2	50 29	3	4			(22.8°)	
		iS	54 29	4	8	5			
			54 41	4	11	12			
		eL	55.1	15					
		MN_1	56 12	12	9				
		ME_1	56 29	12		11			
		ME_2	59 30	12		7			
		MN_2	01 00 05	12	7				
		MN_3	04 44	10	5				
		F	01 45						
211	" 16	e_Z?	11 31.7						Obscured by heavy microseisms.
		i_Z	31 48	3			3		
		e	36.7						
		eL	40.8	20					
		MN_1, ME_1	43×36	16	18	35			
		MN_2, ME_2	46 02	12	11	21			
		MN_3, ME_3	50 12	10	6	10			
		F	12 20						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
2	1929								h m s
213	Dec.17	iP_Z	11 11 48	4			1½	9780	
			12 01	4			8	(88.0°)	0, 10 58 43
		iS	22 25	11	32	-28			
			22 56	12		37			
			25 30	12		31			
		SR_1	28 40	20	150	64			
		iSR_3	34 51	40		900			SR_3 a reproduction
			36 05	40	630	1020			of form of S (EW),
			36 48	40	630	740			two wonderful waves,
		eL	39.2	36?					Form exactly same
		MN_1	42 28	16	110				as S but period
		ME_1	43 01	16		70			enlarged.
		ME_2	44 01	16		80			
		MZ_1	45 12	21			140		
		MN_2	45 48	18	180				
		MZ_2	45 56	21			220		
		ME_3	47 28	16		47			
		MN_3	48 00	20	140				
		MZ_3	49 03	18			100		
		MN_4	50 40	18	65				
		MN_5, ME_4	55 40	16	42	52			
		MZ_4	58 18	18			65		
		ME_5	12 00 57	16		60			
		MN_6	01 41	16	62				
		ME_6	06 01	16	~~42~~	45			
		MN_7	09 30	16	61				
		ME_7	14 13	16		40			
		MN_8	14 59	16	65				
		ME_8	18 35	16		20			
		MN_9	25 18	16	22				
		ME_9	37 00	18		20			
		MN_{10}	41 23	18	30				
		ME_{10}	42 52	16		15			
		eW_2	13 12.1	28					W_2 series.
		MN_1	14 28	28	40				
		ME_1	16 44	18		19			
		MN_2	19 46	20	29				
		ME_2	21 00	16		9			
		MN_3	25 04	20	85				
		ME_3	29 02	20		28			
		MN_4	31 26	20	70				
		ME_4	33 54	18		18			
		MN_5	35 36	20	80				
		ME_5	38 57	20		18			
		F	14 10						
213	" 17	i	21 39 00						
		eL	42.5	30					
		MN	44 48	20	11				
		ME	46 13	16		7			
		F	22 15						
214	" 18	e	07 17.7						Very small.
		eL	36.7						

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