

Riverview College Observatory.

 RIVERVIEW, ~~SYDNEY~~. N.S.W.

SEISMOLOGICAL BULLETIN.

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

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

 $h = 41.9$ m

Foundation : Triassic sandstone

INSTRUMENTS:

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

	V	T ₀	$\epsilon:1$	$\frac{r}{T_0^2}$
A ^N (1)	224	8.9	4.7	0.011
(3)	99	12.0	3.4	0.010
A ^E (1)	254	8.1	4.3	0.015
(3)	78	9.3	4.6	0.016
A ^Z (2)	61	5.1	7.9	0.038

No.	Date	Phase	Time		Per	Amplitude.			Δ	Remarks
			Greenwich)			A _N	A _E	A _Z		
			h.	m.	s.	s.	mth.	mth.	mth.	km.
1	1940 Jan. 1	iE	12	20	53	4		+0.7		Deep focus.
		eN	21	21	6					
		iE	25	22	5			+1.5		
		iE	30	23	4			+2.0		
		iN	30	24	4	+1.5				
		MN	34	19	10	0.3				
		ME	35	36	10			0.1		
		F	12	55						
2	" 2	e(PP)E	11	29	20	11				
		eN	29	35	8					
		e(S)E	34	51	10					
		eLN	25	6	20					
		MN	28	09	13	1.6				
		ME	29	20	15			0.5		
		FeLNE	44	4	28					
		MN	49	01	19	0.5				
		ME	49	54	19			0.5		
		F	12	30						
3	" 4	(eP)E	01	17	45	6				
		eE	18	05	6			0.4		
		e(S)N	23	27	10					
		eLN	25	6	20					
		MN	28	09	13	1.6				
		ME	29	20	15			0.5		
		F	02	35						
4	" 5		03h, 04h,	08h		Indecipherable disturbances, possibly not seismic.				
4	" 6	iPNEZ	14	08	06	5	+5.3	+9.5	-1.1	2330 (21°0) Dilatation, Azimuth ENE.
		mZ	08	12	5				2.0	
		PPNE	08	30	9	7.8	14.3			
		iPPPZ	08	38	4				-1.7	
		mNE	08	50	9	7.7	19.0			
		mN	09	29	5	12.8				
		iSN	11	57	10	+46.8				
		iSE	12	00	8		+51.0			
		PcP?NE	12	07	10	>60	43.6			
		SSN	12	19	12	*26.7				
		iE	12	35	8		-42.2			
		iZ	12	37	5				-1.4	
		eLZ	13	6	26					
		eLE	13	8	23					
		iN	14	49	14	*10.0				
MZ	16	30	16				0.2			
MN	16	51	12	*20.3						
ME	17	05	14			14.5				
F	(18 50)									

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>			Per s.	Amplitude			Δ km,	Remarks
			h.	m.	s.		A _N mm.	A _E mm.	A _Z mm.		
5	1940 Jan. 9	e(L) _N	14	00.4	15						
		eLE		01.2	19						
		MN		03 41	12	0.2					
		F	14	15							
6	" 10	eN	03	12 51	6						
		eE		17 17	?						
		eL _N		20.2	12						
		ME		21 33	9		0.3				
		MN		23 47	9	0.3					
		F	03	40							
7	" 10	eL _N	06	25.3	15						
		MN		26 17	13	0.2					
		F	06	35							
8	" 17	ePNZ	01	23 56	4						
		iPNZ		23 59	5	-2.5		+0.5	5250 (47.2)	iP Condensation.	
		ePE		24 00	5						
		mNE		24 51	5	2.5	1.1				
		PPE		25 49	5		1.1				
		PPN		25 53	5	2.3					
		mN		27 11	8	1.8					
		mE		27 30	5		1.3				
		iN		28 05	5	+2.2					
		eSN		30 55	11						
		eSE		31 04	10						
		mN		31 30	15	2.0					
		mN		31 52	13	1.9					
		SSN		34 04	9	1.9					
		SSE		34 06	9		2.3				
		SSSN		35 24	9	1.9					
		eL _N		37.1	19						
		eLE		37.7	27						
		MZ ₁		42 23	19			0.1			
		MN ₁		42 39	20	5.0					
ME ₁		42 51	20		7.1						
MZ ₂		45 59	16			0.2					
ME ₂		46 01	15		8.5						
MN ₂		46 29	16	11.0							
eW ₂ N		04 01.1	22								
F		04.25									
9	" 17	eL _N	22	56.1	17						
		MN		57 51	12	0.4					
		ME		58 42	14?		0.2				
		F	23	15							
10	" 19	MN	05 07 41	13	0.2				A few waves.		
11	" 20	e(PPP) _{N10}	10	47	8						
		eSNE		15 05	9	0.5	0.5				
		mNE		15 21	11	1.9	0.8				
		eSSN		18 06	10						
		eE		20 09	13						
		eN		20 17	13						
		eLQ _N		22.4	18						
		eLRE		23.3	23						
		eLR _N		23.8	23						
		MN		25 43	18	1.0					
		ME		26 02	18		0.7				
F	11	55									

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per s.	Amplitude			Δ km,	Remarks
			h.	m.	s.		A _N mm.	A _E mm.	A _Z mm.		
12	1940 Jan. 22	eN	00	05	.5					Small and obscured by heavy microseisms.	
		MN		10	51	13?	0.4				
		ME		11	56	13		0.3			
		F	00	30							
13	" 24	eN	01	44	.4						
		eLN		45	.5	23					
		MN		48	06	13	0.6				
		ME		46	48	15		0.3			
14	" 24	F	02	20						Times approximate only.	
		eNE	18	00	.1	5					
		mNE		01	.0	9	0.6	0.4			
15	" 26	F	18	15					2600 (23?4)		
		iPNEZ	06	46	58	4	+0.5	-1.0			+0.3
		iZ		47	02	3					-0.4
		PPZ		47	24	4					0.4
		PPN		47	26	8	1.3				
		PPPE		47	35	4		1.6			
		iSN		51	12	6	-1.7				
		iSE		51	13	6		-1.5			
		mE		51	21	6					2.0
		mN		51	22	10	3.0				
		mE		51	27	7		1.6			
		SS _E		51	46	3		1.7			
		SSN		51	49	8	1.5				
		SSSE		51	53	8		1.6			
		mNE		52	01	8	1.5	1.5			
		eLN		53	.0	26					
		eLE		53	.1	26					
		ME		54	52	17		1.8			
		MN		55	07	17	1.8				
		16	" 26	F	08	05					
eN	17			51	.1						
eS _E				23	29	11		0.6			
eN				23	37	8	0.6				
iE				25	01	7		-0.7			
eE				30	.5	13					
eN				30	.6	13					
eLN				34	.6	20					
MN				38	20	17	0.5				
F	13			25							
17	" 29	eN	14	09	.3	7					
		eL		11	.3	15					
		MN		12	38	11	0.3				
		ME		12	43	10		0.3			
		F	14	30							
			23	15	to						
			23	30							
			23	45	to						
			00	00							
			00	15	to						
	01	00									
	01	05	to								
	01	30									
	02	00	to								
	02	15									

 Indecipherable
disturbances,
possibly not
seismic.

 D. J. K. O'CONNELL, S. J.
Director.
1940, Feb. 1.

Riverview College Observatory.

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

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

 $h = 41.9$ m

Foundation : Triassic sandstone

INSTRUMENTS:

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

	V	T ₀	$\epsilon:1$	$\frac{r}{T_0^2}$
A ^N (1)	216	9.0	4.9	0.017
(3)	95	11.9	3.3	0.008
A ^E (1)	227	7.9	4.1	0.021
(3)	93	8.3	4.5	0.020
A ^Z (2)	60	5.1	6.5	0.054

No.	Date	Phase	Time			Per	Amplitude.			Δ	Remarks
			Greenwich)				A _N	A _E	A _Z		
			h.	m.	s.		mm	mm	mm	km.	
18	1940 Feb. 7	e(P) _E	17	28	30	4					E-W readings from Mainka.
		e _N		28	42	4					
		e _{SN}		39	14	6					
		e _{SSNE}		45	12	12					
		e _{LE}		51.	6	19					
		e _{LN}		52.	4	20					
		M _N		58	59	16	0.3				
		M _E	18	00	38	16			0.2		
19	" 12	F	18	40							Deep focus. From Mainka, Wiechert NS & EW not working.
		i _{PZ}	08	26	48	2			-0.4		
		e _{PE}		26	49	3					
		i _E		27	56	6			-1.3		
		m _E		28	04	6			2.3		
		m _N		28	08	5	0.3				
		i _{SNE}		31	24	5	-1.0	+1.2			
		L?N		33.	8	16					
		M _E		36	44	16			0.3		
		i _{ScSN}		37	06	5	-2.7				
		i _{ScSE}		37	07	?			0.5		
20	" 14	M _E	40	24	15			0.5		Beginning ob- scured by micro seisms.	
		F	09	20							
		e _N	02	20.	0						
		e _{LE}		26.	3	17					
		M _N		30	02	13	0.4				
21	" 14	M _E	30	55	10			0.6		Obscured by microseisms.	
		F	03	00							
		e _N	13 10	21 52.	20 4						
		e _{LN}		55.	7	20					
22	" 18	M _E	56	43	19			0.5			
		M _N	57	02	17	0.3					
		F	11	15							
		e _N	02	23	2-						
		M _E	13	21	20						
		M _N	26	55	17			0.2			
F	29	11	18	0.2							
F	13	50									

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No. 2 (continued)

1940, February.

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RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>			Per s.	Amplitude			Δ km,	Remarks
			h.	m.	s.		A_N mm.	A_E mm.	A_Z mm.		
23	1940 Feb. 20	iPE	02	23	29	3		-0.5		2780 (25°0)	Focal depth below normal, about 200 km. H 02 18 22
		iPZ		23	30	2					
		iPN		23	32	3	-1.1				
		mN		23	39	4	2.3				
		ipPZ		24	10	3			+0.5		
		ipPNE		24	12	6	-5.0	-3.1			
		iSNE		27	37	9	-13.7	-4.8			
		isSNE		28	55	9	+7.5	-13.9			
		mNE		29	15	11	14.6	15.5			
		mN		29	37	12	16.8				
		MN		31	56	13	11.6				
		ME		32	20	13		9.2			
		24	" 20	F	04	25					
eN	13			12.5		7					
eE				12.7		?					
eN				16.7		11					
eLN				23.0		18					
eLE				23.8		18					
ME				27	14	15		0.3			
MN				29	17	11	0.4				
25	" 20	F	14	55						No outstanding phases.	
		eE	20	44	54	5					
		eN		45	15	6					
		iE		49	45	6		+0.7			
		eLN		52.8		18					
		eLE		53.4		18					
		ME		54	39	16	1.0				
26	" 21	ME		55	33	16		1.0		Preliminaries masked by heavy microseisms.	
		F	21	45							
		eN	13	39	37	5					
		eE		41	08	5					
		eN		43	09	7					
27	" 21	F	14	00						Preliminaries masked by heavy microseisms.	
		eN	12	06	25	5					
		eE		06	43	5					
		mN		08	11	8	0.8				
		eSN		11	50	9					
		iE		11	55	5		+0.7			
		eLE		16.7		24					
		ME		19	21	12		8.0			
		MN1		20	14	12	9.0				
		MN2, MZ		23	30	12	12.6		0.5		
F		13	50								

-----00-----

 D. J. K. O'CONNELL, S. J.
Director.

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

 $h = 41.9$ m

Foundation : Triassic sandstone

INSTRUMENTS:

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

	V	T ₀	$\epsilon:1$	$\frac{r}{T_0^2}$
A ^N (1)	215	9.0	4.6	0.021
A ^E (3)	100	12.0	3.4	0.008
A ^N (1)	230	7.9	3.9	0.021
A ^Z (3)	68	8.3	3.7	0.020
A ^Z (2)	61	5.2	8.1	0.049

No.	Date	Phase	Time			Per	Amplitude.			Δ	Remarks
			Greenwich)				A _N	A _E	A _Z		
			h.	m.	s.		ftm	ftm	ftm		
28	1940 March 3	ePNEZ	00	10	30	2				2090	Condensation
		iPNEZ		10	41	7	-2.5	-3.1	+0.6		
		PPE		10	53	9		1.9			
		PPPN		11	13	7	1.6				
		iSE		14	31	6		-3.3			
		iSN		14	33	6	+2.3				
		ME		14	39	6		8.2			
		iPcPE		14	43	7		-17.0			
		iPcPN		14	45	7	+13.5				
		SSN		14	58	8	11.3				
		eLE		16.2		24					
		eLN		16.3		24					
		MN		18	14	15	5.0				
		ME		18	50	15		2.8			
29	" 3	F	01	25							
		eE	12	13.8							
		eN		15.4							
		eLN		17.6	18						
		MN		19	40	13	1.6				
30	" 4	ME	20	20	11		3.5				
		F	13	00							
		eN	15	58	53	4		0.6			
31	" 6	ME	16	02	10	4					
		MN		03	55	4	1.0				
		F	16	15							
		iPNE	18	27.3	5	-1.0	-0.2				
		mNE		27.5	6	1.6	1.1				
		iSE		30.8	15		-1.2				
		iSN		30.9	15	-1.3					
ME		31.6	13		1.6						
MN		31.9	13	1.9							
F	19	30									

Times approximate only, owing to failure of time marks.
Note the long period of S, which begins a train of prominent waves lasting till 18h 33.5m, and gradually dying away after that. This record a replica of Earthquake of 1939, Sept.17d, 19h, and Sept.20 07h.

(Continued on next sheet)

No. 3 (continued)

1940, March.

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RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW. N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>)			Per s.	Amplitude			Δ km,	Remarks
			n.	m.	s.		A _N mm	A _E mm	A _Z mm		
32	1940 Mar. 13	e?N	19	16.4							
		eLNE		25.0	14						
		MN		27 15	14	0.2					
		ME		28 06	14		0.2				
		F	19	45							
33	" 13	eLN	22	20.7	15						
		MN		22 16	14	0.2					
		ME		23 42	15		0.2				
34	" 14	F	22	40							
		eN	00	42 14	5						
		eLE		48.5	16						
		eLN		48.9	20						
		MN		51 14	17	0.2					
35	" 14	ME		51 35	14		0.2				
		F	01	20							
		eN	04	10 27							
		iE		12 21	5			-0.5			
		eLE		16.0	15						
36	" 14	MN		17 31	15	0.2					
		ME		18 05	15		0.2				
		F	04	35							
		eE	17	29.5							
		MNE		32 49	11	0.3	0.2				
37	" 14	F	17	40							
		ePN	18	27 33	4	0.5			2630		
		ePZ		27 36					(2397)		
		ePE		27 37	4						
		iNZ		27 39	4	+2.8		+0.5			
		iNEZ		27 45	4	-6.0	-0.9	-1.2			
		PPNE		28 03	8	10.3	1.9				
		ME		28 08	9		2.5				
		mZ		30 35	6			0.5			
		iSE		31 50	10			-30			
		iSN		31 57	6	-14.6					
		mZ		31 58	6			0.6			
		ME		32 04	9			30.0			
		mN		32 12	7	18.5					
		eLZ		32.5	25						
		mN		32 55	11	19.7					
		eLN		33.1	27						
		ME		33 15	14			28.0			
ME		35 07	11			75					
MN		35 16	10	70.8							
MZ		35 33	11				2.3				
38	" 15	F	21	00							
		eN	14	52.9							
		eE		55.0	9						
39	" 16	eE	15	00.0	9						
		eN	01	39.5	8						
		eLN		40.9	15						
		MN		42 23	13	0.2					
		F	01	55							

Small and masked
by heavy micro-
seisms.

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>)			Per s.	Amplitude			Δ km,	Remarks	
			h.	m.	s.		A_N mm	A_E mm	A_Z mm			
40	1940 Mar. 18	eE	05	44	28							
		iE		45	05	7		+0.7				
		eN		45	16	5						
		eN		49	01	8						
		eLE		51.9		22						
		eLN		52.9		22						
		ME		54	33	18		0.4				
		MN		55	32	14	0.3					
41	" 19	F	06	40								
		eN	05	15	24	5					Masked by heavy microseisms.	
		eLN		21.6		18						
		MN		23	31	14	0.5					
ME		23	53	14		0.5						
42	" 19	F	05	50								
		e?N	10	54.3								
		eN		55	21	5						
		eLE	11	00.7		16						
		MN		02	29	15	0.5					
43	" 19	ME		02	43	14		0.3				
		F	Lost in No. 43.									
		eN	11	07.6								
		iNE		13	08	5	+1.0	+1.0				
44	" 19	ME		13	36	8		0.8				
		MN		17	00	11	1.2					
		F	11	35								
		eN	15	02	47	10						
		eLE		04.6		18						
45	" 21	MN		06	26	16	0.3					
		ME		07.7		16		0.4				
		F	15	30								
		iPNEZ	14	01	17	5	+0.2	-0.7	-0.1		Dilatation.	
		iNE		03	06	5	+0.3	-1.5				
		eN		11	11	9						
		eE		11	40	9						
		ME		12	07	9		1.1				
eLNE		16.7		23								
MN		19	49	13	13.8							
ME		23	01	14		4.3						
46	" 22	F	16	10								
		eE	20	27	18							
		iE		27	37	5						
		eLN		34.0		22						
		eLE		35.0		28						
		MN		35	42	17	1.5					
		ME		38	20	16		1.2				
47	" 23	F	21	30								
		eLN	08	28.5		20						
		MN		30	20	15	0.2					
48	" 27	ME		31	30	16		0.1				
		F	08	50								
		iN	12	54	39	5	+0.5					
		iE		54	54	7		-0.5				
		eN	13	01	05							
		eLN		11.6		22						
		eLE		13.0		26						
		MN1		16	46	22	0.3					
ME		18	36	20		0.2						
48	" 27	MN2		23	28	20	0.5					
		F	14	05								

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>)			Per s.	Amplitude			Δ km,	Remarks
							A _N mm	A _E mm	A _Z mm		
49	1940 Mar. 27	eL	14	54.9		22					A few shallow long waves.
		F	15	10							
50	" 28	iPZ	15	58 15		3		-0.5	5940	Dilatation..	
		ePNE		58 15		3			(33.5)		
		iNEZ		58 18		4	+1.5	-1.0	-1.0		
		iSE	16	05 52		6		+1.8			
		iSN		05 53		6	+1.0				
		ME		05 56		6		3.1			
		eLN		11.7		25					
		MN		17 47		20	0.8				
		ME		17 57		19		1.6			
		F		17 15							
51	" 29	eN	02	57.4		7					
		eLN		59.1		18					
		MN	03	01 06		15	0.2				
		F	Lost in No. 52.								
52	" 29	eLN	03	13.8		18					
		MN		15 42		16	0.2				
		ME		17 15		18		0.2			
		F		03 30							
53	" 29	ePN	23	25 14					2390	(21.5)	
		eSE		29 11		11		0.6			
		eSN		29 16		8	0.7				
		eLN		30.1		26					
		ME		32 09		11		2.7			
		MN		32 20		11	1.6				
		F		00 30							
54	" 30	eN	06	32.4							
		iE		33 56		4		-0.6			
		eN		36 06		6					
		ME1		40 02		7		2.8			
		MN1		40 16		7	3.2				
		ME2		41 12		8		3.3			
		MN2		41 16		7	4.3				
		F		07 20							
55	" 30	eN	12	09		12					A few shallow waves.
56	" 31	eLN	14	33.2		20					A few long waves.
-----oOo-----											
D. J. K. O'CONNELL, S. J. Director. 1940, April 2nd.											

Riverview College Observatory.

RIVERVIEW, ~~SYDNEY~~. N.S.W.

SEISMOLOGICAL BULLETIN.

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

INSTRUMENTS:

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

	V	T ₀	$\epsilon:1$	$\frac{r}{T_0^2}$
A ⁽¹⁾	218	9.2	5.0	0.020
A ⁽³⁾	106	11.9	3.4	0.010
A ⁽¹⁾	225	7.9	3.8	0.030
A ⁽³⁾	71	8.4	5.8	0.018
A ⁽²⁾	60	5.2	7.8	0.046

No.	Date	Phase	Time			Per	Amplitude.			Δ	Remarks
			Greenwich)				A _N	A _E	A _Z		
			h.	m.	s.	s.	mm	mm	mm	km.	
57	1940 Apr. 1	ePN	11	25	33	4				3440 (31.0)	
		iPN		25	36	4	+1.0				
		iE		25	53	5			-0.5		
		iN		25	54	5	+1.2				
		mN		27	28	7	1.5				
		iSN		30	47	11	+1.7				
		iSE		30	49	6		+2.5			
		eN		31	30	20					
		mE		33	17	8			2.0		
		mN		33	46	6	2.8				
		mN		34	23	7	3.3				
		eLN		34.8		36					
		ME		37	19	10			23.0		
		MN1		37	23	7	18.1				
		MN2		40	23	11	21.3				
58	" 3	F	13	20							
		eLE	07	23.8		14					
59	" 4	MN		30	25	11	0.2				
		F	07	35							
60	" 14	eN	09	45.3		4					
		eE		46.2		5					
		eN		48.3		10					
		MN		53	02	10	0.3				
61	" 16	F	10	05							
		eP?E	06	20	36					Preliminaries very small and indefinite.	
		eN		20	40	5					
		iSKSN		30	58	8?	+0.9				
		SN		31	16	10	1.4				
		iSE		31	17	10			-0.8		
		SKKSN		31	26	10	1.5				
		PSN		32	24	15	1.2				
		mN		33	19	15	1.2				
		SSN		37	42	23	1.5				
		SSSN		41	16	21	0.8				
		eLN		47	52	44					
		ME1		51	02	25			1.4		
		MN1		52	52	22	2.5				
		MN2		56	02	18	2.4				
ME2		56	17	20			0.8				
61	" 17	F	09	30							
		eSME	21	44	33	7				Preliminaries obscured by micro- seisms. M begins.	
		mNE		44	52	10	1.0	0.8			
		eLN		47.3		19					
		eE		49	12	12					
		ME		50	17	11			4.6		
		MN		51	17	11	2.4				
F		22	45								

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>			Per s.	Amplitude			Δ km,	Remarks
			h.	m.	s.		A_N mm	A_E mm	A_Z mm		
62	1940 Apr. 18	eN	19	50	28					Felt at Duke of York Is. New Brit- ain, R.F.3, Wau R.F.4, Namatanai, New Ire- land R.F.6.	
		eSN		54	43	14					
		eLN		58.	4	25					
		ME	20	00	01	15		0.3			
		MN		00	32	18	0.3				
63	" 24	F	20	20							
		eN	10	29	25						
		iN		33	53	7	-0.7				
		eLE		36.	5	25					
		eLN		38.	6	19					
		ME1		39	08	16		1.0			
		MN1		40	00	14	1.6				
64	" 27	MN2		42	34	11	2.1			Masked by heavy seisms. microseisms.	
		ME2		43	18	9		2.5			
		F	11	35							
		eNE	09	42	17	6					
		e(S?)N		46	34	9					
		mN		47	19	9	1.0				
		eLE		48.	5	23					
65	" 27	MN1		52	44	11	1.9			A few long waves.	
		ME1		52	55	12		0.7			
		MN2		55	15	10	2.5				
		ME2		55	55	9		1.7			
		F	11	00							
		eLN	12	00.	7	16					
66	" 27	eN	18	10.	9					Masked by heavy microseisms.	
		iSN		16	17	7	2.9				
		mN		17	05	8	1.7				
		eLN		18.	4	18					
		MN		21	19	12	1.5				
		ME		35	19	9		2.0			

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 D. J. K. O'CONNELL, S. J.
Director.

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks	
							A_N	A_E	A_Z			
							CONSTANTS.					
							V	T_0	$\epsilon : 1$	r/T_0^2		
							N	(1) 222	8.9	4.7	0.016	
							N	(3) 95	11.8	3.8	0.009	
							E	(1) 224	7.6	3.4	0.021	
							E	(3) 84	8.7	5.8	0.022	
							Z	(2) -	-	-	-	
							mm	mm	mm			
67	1940 May 1	eN	12	08.3								
		eLNE		11.5	20							
		MN		13 02	17	0.5						
		ME		13 52	14		0.2					
68	" 3	F	12	40								
		iN	08	29 08	4	0.5						
		iE		29 12	4		0.9					
		iN		32 09	4	0.7						
		iE		32 17	4		0.8					
		MN		37 51	12	0.3						
69	" 4	F	08	55								
		eN	07	47 28	13							
		eN		53 33	13							
		MNE	08	09 51	20	0.2	0.1					
70	" 4	F	08	30								
		eLN	21	55.7	23							
		MN	22	03 30	23	0.2						
		ME		05 18	23		0.2					
		F	22	30								
71	" 10	eN	19	14 02								
		eLN		23.1	22							
		MN		26 31	13	3.4						
		ME		29 42	13		0.4					
		F	20	16								
72	" 11	eLN	04	59.8	22							
		MN	05	02 13	18	0.2					A few waves.	
		F	05	05								
73	" 11	e(S?) _N	7	48 48	5	0.3						
		e(S?) _E		48 51	5		0.3					
		eLN		50.8	19							
		MN		52.4	14							
		ME		52 33	11		0.2					
		F	08	05								
74	" 11	eN	14	12 45	7							
		eNE		12 15	6							
		eN		19 51	15							
		eE		22 44	23							
		eLN		24.4	26							
		MN		39 50	23	0.2						
		ME		42 45	23		0.1					
		F	15	05								
75	" 18	eLN	05	15.9	13							
		MN		20 24	11	0.5						
		ME		22 09	11		0.2				Earlier phases obscured by micro-seisms.	
		F	05	45								

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _x	A _y	A _z		
76	1940 May 19	eN?	05	02.9	?					Heavy microseisms	
		eN		04 00	8						
		eE		05 06	9						
		eLQE		22.4	30						
		eLQN		23.0	32						
		eLRE		27.6	32						
		ME ₁		32 52	18			0.4			
		MN		34 57	18	0.6					
		ME ₂		41 40	18			0.3			
		MNE	06	55.9	20	0.6		0.3			
77	" 19	F	07	50						W ₂ ?	
		eLN	19	06.4	22						
		MN		09 23	19	0.2					
78	" 21	ME		10 06	15			0.2		Readings from Mainka.	
		F	19	20							
		eE	18	54 33							
79	" 24	iN		59 01	5	-0.6				Peru. Readings from Mainka.	
		ME		59 06	8			0.2			
		MNE	19	01 43	8	0.4		0.5			
		F	19	15							
		iPPNE	16	53 58	7	+0.5		-0.6			
		eSKSN		59 18	26						
		eSKSE		59 32	26						
		iSKKSE	17	00 52	18			-0.8			
		iPSNE		03 21	21	-1.7		+1.7			
		PPSN		04 43	22	1.5					
80	" 24	iSSNE		09 41	21	+2.7		+2.1		Train of sinusoidal waves begins on EW reaching Max. at 36m 02s. On NS sin- usoidal waves begin at 34 33, Max at 36m 09s.	
		mNE		10 18	24	8.5		6.6			
		ME		17 40	23			0.6			
		e(L?)E		19.2	42						
		eLN		20.7	42						
		eLE		22.5	39						
		ME		27 47	26			2.0			
		mN		27 55	27	3.2					
		mN		29 37	24	6.8					
		ME		29 51	24			3.0			
81	" 27	eE		31.8	18					A few waves.	
		eN		34 33	18						
		ME		36 02	18			5.5			
		MN ₁		36 09	18	7.2					
		MN ₂		42 41	18	6.4					
		F	20	00 ca							
		eNE	22	33.8	18						
		eN		49.5							
		eLNE		53.2	21						
		MN		57 16	19	0.2					
81	" 27	ME		57 34	19			0.2			
		F	00	00							
81	" 27	eN	11	56.3							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _N	A _E	A _Z		
82	1940 May 28	iPN	09	47	24	4	-0.6			3610?	
		iPNE		47	26	4	+2.0	-0.8			
		mN		48	45	4	1.2				
		i(S?)N		52	47	4	+1.3				
		eE		53	10	5					
		mN		53	12	5	1.7				
		iE		53	17	5		+1.7			
		eNE		53	24	22					
		mN		55	55	6	2.4				
		ME ₁		59	01	6		17.3			
		MN ₁		59	04	6	13.2				
		ME ₂	10	00	51	17		18.0			
		MN ₂		02	06	15	22.0				
		F		11	35						
83	" 29	eNE	13	18.	8	6					
		ME		21	31	7		0.4			
		MN		23	07	9	0.6				
		F	13	30							
84	" 28	eN	21	42.	9						
		MN		51	07	13	0.2				
		ME		53	45	11		0.4			
85	" 29	F	22	10							
		eN	01	13.	5						
		iN		15	49	6	+1.5				
		eE		15	52	6					
		ME		16	23	7		1.3			
		mN		18	53	14	0.7				
		ME		18	59	14		0.5			
		iE		19	59	6		+1.3			
		MN		22	01	16	0.4				
		F	01	35							
86	" 31	eN	00	55.	5						
		eLN		58.	0	21					
		MN	01	00	46	13	0.6				
		ME		01	57	15		0.3			
87	" 31	F	01	30							
		eN	02	48.	6						
		MN		52	00	14	0.4				
88	" 31	ME		54	02	14		0.3			
		F	03	10							
		eE	05	48	51	6		0.5			
		eLN		50.	9	19					
		MN		52	52	15	0.4				
ME		55	03	16		0.1					
F	06	10									

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 D.J.K.O'CONNELL, S.J.
 Director.

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _v	A _E	A _z		
CONSTANTS											
						V	T ₀	ε:1	r/T ₀ ²		
			N			(1) 221	8.9	4.4	0.018		
						(3) 89	12.0	2.9	0.009		
			E			(1) 226	7.6	3.4	0.022		
						(3) 85	8.1	4.7	0.021		
			Z			(2) 60	5.2	11.3	0.026		
mm. mm. mm.											
89	1940 June 2	eE	12	28	52						Masked by micro-seisms.
		eN		29	08	10					
		eLN		35	.4	18					
		ME		36	40	17		0.2			
		MN		38	22	16	0.3				
90	" 2	F	12	55							
		eE	19	23	20	4		0.2			
		eN		28	19	8	0.6				
		mN		28	28	8	0.9				
		mN		28	36	8	1.1				
		mE		28	40	8		0.2			
		MN		32	17	9	0.2				
91	" 5	F	19	45							
		eN	11	37	21						
		eLQN		54	.1	25					
		eLRE		56	.1	25					
		eLRN		56	.3	25					
		ME	12	03	14	17		0.2			
		MN		07	30	17	0.2				
92	" 7	F	12	40							
		ePNZ	07	22	31	6	0.7		0.1	2690	
		iSN		26	52	10	-1.8			(24.2)	
		iE		26	57	7		-1.5			
		mN		27	01	10	2.8				
		SSN		27	50	7	2.2				
		mE		28	06	7		2.0			
		eLE		29	.5	20					
		eLN		29	.9	20					
		ME1		30	33	16		3.1			
		ME2		31	33	13		4.6			
		MN1		31	59	14	3.4				
		ME3		34	47	9		6.0			
		MN2, MZ1		38	05	9	5.8		0.1		
		ME4		38	27	8		6.5			
		MZ2		39	06	9			0.2		
93	" 8	F	08	35							
		eE	04	17	12	6					Masked by micro-seisms.
		e(L?)N		19	.0	14					
		eLE		20	.9	16					
		MN		22	32	12	0.3				
		ME		23	47	14		0.3			
94	" 9	F	04	45							
		e(S?)N	01	49	37	9					
		eLE		52	.5	19					
		eLN		53	.9	19					
		ME		54	45	12		0.3			
		ME		55	10	11	0.3				
95	" 11	F	02	15							
		e(P?)NEZ	8	49	08	4	0.3	0.4			Very small.
		i(S?)NE		54	39	6	-0.5	+0.6			
		e(L?)E	09	00	.5	27					
		eLN		02	.0	23					
		ME1		04	57	12		3.0			
		MN		05	51	11	5.4				
		ME2		06	50	11		3.6			

F 09 50

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks	
			h.	m.	s.		A _N mm.	A _E mm.	A _Z mm.			
96	1940 June 17	ePN	11	53	14	6	0.5			2310 (20°8)		
		ePE		53	16	6		0.2				
		iSE		57	06	10		-1.6				
		iN		57	10	7	+0.7					
		ME		57	20	10		1.6				
		MN		57	27	8	1.8					
		eLN		57	9	28						
		ME		59	56	10		2.5				
		MN	12	01	57	11	4.1					
		F	13	00								
97	" 17	eE	10	50	04							
		eLN		59	5	22						
		eLE	11	01	9	22						
		MN		05	17	19	0.2					
		ME		06	17	18		0.2				
		F	11	50								
98	" 18	iPNE	14	00	21	5	+0.8	-0.7		Deep focus.		
		iNE		06	33	6	+6.6	+2.2				
		iN		07	16	4	-2.6					
		iNE		09	12	5	+1.2	+1.1				
		iN		09	57	6	+1.4					
		MN		17	11	12	1.2					
		ME		17	27	9		1.3				
		F	14	55								
99	" 18	eN	19	03	5							
		eLN		23	0	20						
		MN		26	29	19	0.2					
		ME		27	47	20		0.2				
		F	19	40								
100	" 21	eLE	16	17	1	20						
		MN		18	56	20	0.3					
		F	16	35								
101	" 22	ePZ	11	44	26	3				4780 (43°0)	iP Condensation.	
		iPNEZ		44	28	4	-0.6	+0.4	+0.2			Focal depth 200 km
		iPN		45	05	4	+1.0					
		iPE		45	07	4		-0.6				
		mNEZ		45	30	6	1.3	1.3	0.4			
		iNE		47	05	7	-2.1	+2.5				Prominent wave.
		mNE		47	14	8	2.2	3.0				
		iSN		50	41	8	-4.3					
		iSE		50	43	8		+5.2				
		isSE		51	45	8		-3.5				
		isSN		51	47	8	+8.0					
		iN		53	49	10	-3.5					
		isSE		53	57	8		-8.0				
		MN		54	10	10	8.5					
		ME		54	16	9		12.2				
		F	13	30								
		102	" 26	eN	08	17	09	6	0.5			
eE				17	10	6		0.6				
eLN				28	0	22						
MN				32	37	12	0.3					
ME				34	01	18		0.2				
F	08			50								
103	" 30	eE	13	11	13	4		0.3				
		eN		11	20	4	0.1					
		eLN		15	9	18						
		MN		18	25	16	0.2					
		F	13	30								

D. J. K. O'CONNELL, S. J.
Director.
1940, July 15th.

No. 7

1940, July.

16 17

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>	Per s.	Amplitude			Δ km.	Remarks
					A_N	A_E	A_Z		
			h.	m.	s.	CONSTANTS.			
						V	T_0	$\epsilon : 1$	r/T_0^2
		Wiechert	N	215	9.1	4.7	0.024		
			E	223	7.5	3.3	0.032		
			Z	58	5.0	6.9	0.060		
		Mainka	N	84	12.0	4.4	0.010		
			E	86	8.1	5.4	0.023		
					mm.	mm.	mm.	km.	
104	1940 July 2	e(P?)N	19 16 09	4					
		eE	16 18	4					
		e(S?)N	21 14	8					
		eE	21 18	12					
		eN	24 04	12					
		eLNE	25.0	20					
		MN	28 02	12	1.7				
		ME	29 57	14		0.2			
		F	20 20						
105	" 10	eE	06 10.5	5					
		eN	10.6	13					
		ME	10 49	12		2.3			
		M?E	14 08	12		0.6			
		F	06 45						
106	" 14	ePNEZ	06 05 44	3	0.2	0.1	0.2	9670	
		iSKSN	16 04	6	-1.0			(87°0)	
		iSE	16 24	10		+1.5			
		SKKSN	16 35	8	1.0				
		iE	16 52	10		-2.7			
		mN	16 53	10	1.2				
		ME	17 01	10		4.5			
		iN	17 05	6	-2.3				
		PSN	17 21	9	1.1				
		SSN	22 37	16	1.5				
		iE	22 44	16		+1.7			
		eLNE	29.1	45					
		MN	36 25	20	1.1				
		ME	36 59	16		1.7			
		MZ	39 30	16			0.1		
		eW2?N	08 05.3	26					
		MN	09 38	26	0.1				
		F	08 45						
107	" 16	eN	19 24.3						
		eLE	30.3	16					
		eLN	30.7	21					
		MN	33 17	16	0.3				
		ME	33 26	13		0.5			
		F	20 05						
108	" 16	eE	23 27 08	4					
		eE	31 16	12					
		eLN	33.2	16					
		eLE	35.2	16					
		MN	38 23	13	0.5				
		ME	39 12	13		0.6			
		F	00 05						

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No. 7 (Concluded)

1940, July.

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RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per s.	Amplitude			Δ km,	Remarks
			h.	m.	s.		A_N mm.	A_E mm.	A_Z mm.		
109	1940 July 20	eE	02	02	39	7					
		eN		02	43	6					
		mE		02	50	7		0.6			
		eE		07	08	14					
		eLN		09.	7	20					
		eLE		11.	2	20					
		MN		14	42	12	0.8				
		ME		16	08	16		0.8			
110	" 21	F	03	15							
		eNE	05	21	10						
		iN		21	57	4	+0.5				
		iE		21	58	4		-1.3			
		iNE		25	14	4	+0.8	-0.7			
		mNE		25	58	6	0.8	0.6			
		7.3 E		26	14	6		1.0			
111	" 21	F	05	40							
		eE	15	47	11	4					
		eNE		53	38	10	0.5	0.6			
		iNE		57	04	8	+1.5?	-1.4			
		eLN		59.	7	36					
		eLE	16	01.	5	27					
		MN		05	18	17	0.5				
		ME		06	59	16		0.3			
112	" 23	F	17	00							
		eN	02	28	40	4					
		eLE		34.	6	18					
		eLN		34.	8	16				0.4	
		ME		36	57	12					
113	" 27	MN		37	35	16	0.3				
		F	03	10							
		eE	14	02.	7						
		eE		25.	2						
		eLE		28.	1	30				0.2	
114	" 31	ME		32	56	20					
		MN		33	56	20	0.2				
		F	14	50							
		e?N	11	44.	9						
		iN		49	09	12	+1.0				
		eE		49	12	9					
		eLN		52.	1					0.6	
115	" 31	ME		52	34	14					
		MN		53	50	14	0.3				
		F	12	20							
		eE	14	36	32	8					
		eN		36	38	8					
		eLN		41.	2	16				0.2	
		ME		42	19	11					
MN		42	33	12	0.2						
F	14	50									

Felt at Cape Nelson, Papua, R.F.5

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RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>			Per s.	Amplitude			Δ km,	Remarks
			h.	m.	s.		A_N	A_E	A_Z		
CONSTANTS.											
							V	T_0	$\epsilon:1$	r/T_0^2	
		Wiechert				N	223	8.8	4.8	0.021	
						E	231	7.4	3.2	0.027	
						Z	66	4.9	6.2	0.066	
		Mainka				N	86	11.9	2.7	0.010	
						E	76	7.8	4.5	0.025	
	1940 Aug. 1	iPNEZ	12	44	30	4	mm. +0.2	mm. +1.1	mm. -0.2	Km. 2890	iP Dilatation. Focal depth 500 km H 12 39 23
116		ipPNEZ	45	49		4	+0.2	+1.3	0.1	(26°0)	
		mE	45	56		4		2.6			
		isPE	46	49		6		-2.3			
		iZ	46	52		6			-0.3		
		mE	46	58		6		5.2			
		iSNE	48	25		6	-3.0	+4.0			
		mN	48	30		6	3.6				
		isSN	51	04		8	+3.2				
		iE	51	09		5		-2.0?			
		mN	51	16		8	4.8+				
		i (ScS?) NE	54	29		5	-4.0	+5.1			
		i (sScS?) E	58.0			7		1.1			
		F	13	40							
117	" 1	ePN	15	20	25	8				8720	Focal depth below normal?
		iNZ	20	33		8	-3.5		-0.8	(78°5)	
		mNE	20	39		8	6.0	0.6			
		mZ	20	45		8			1.0		
		mN	21	00		8	3.0				
		mE	21	12		8		1.0			
		mN	21	24		8	3.0				
		mE	22	18		10		1.9			
		mN	22	58		9	2.3				
		mN	24	12		8	2.2				
		mE	25	11		8		1.7			
		mN	26	18		9	3.0				
		mN	28	05		8	2.5				
		mE	28	09		9		1.5			
		iSE	30	24		8		+2.2			
		iSN	30	30		7	-2.8				
		mE	30	40		12		2.6			
		mN	30	44		7	6.1				
		mN	31	21		(10/22)	3.2				
		mN	32	02		8	2.1				
		mE	32	20		9		2.0			
		mN	33	18		8	2.9				
		eSSN	35	12		8					
		mN	35	35		8	4.0				
		SSS?H	39	13		8	2.2				
		eLE	42.4			25					
		eLN	44.3			26					
		MN	49	38		24	2.2				
		mE	49	46		26		1.7			
		iN	51	10		8	+3.6				
		F	18	30							
118	" 2	eLE	05	12.4		17					From Mainka.
		mE	14	42		15		0.1			
		MN	15	05		13	0.1				
		F	05	25							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)			Per s.	Amplitude			Δ km,	Remarks
			n.	m.	s.		A _N mm.	A _E mm.	A _Z mm.		
119	1940 Aug. 2	eE	11	47	39					Very small-perhaps earlier. Small local shock.	
		i(S?) _{NE}	47	49	<1	+0.3	-0.3				
		mE	47	50	<1		1.1				
120	" 8	F	11	49						2680 (24°1)	
		iPN	14	13	35	5	-0.6				
		PP _{NE}	14	11		4	1.2	0.5			
		eSE	17	55		10					
		eN	18	05		6					
		mNE	18	15		6	1.0	1.5			
		eLN	19	4		22					
		ME	22	29		9		1.2			
		MN	24	29		10	1.0				
		F	15	10							
121	" 11	e(P?) _{NE}	16	55	19	6				From Mainka.	
		iE	55	38		6		-0.5			
		eN	17	02	7	15?					
		eLE	04	4		28					
		ME	06	24		18		0.1			
		MN	07	11		12	0.2				
		F	17	25							
122	" 13	eN	15	50	27					Masked by heavy microseisms.	
		eE	50	41							
		eN	57	30		9	0.3				
		eE	57	50		9		0.1			
		eN	16	06	3	18					
		eLE	09	9		32					
		MN	11	25		16	0.3				
		ME	11	51		16		0.2			
		F	16	55							
		123	" 16	e(L?) _N	18	01	8	16?			
ME	03			23		11		0.2			
MN	04			26		11	0.3				
124	" 18	F	18	10							
		eN	06	01	5	8					
		eL _{NE}	10	4		16					
125	" 20	MN	11	36		13	0.2				
		ME	12	30		14		0.2			
		F	06	30							
		eN	17	35	40	8?					
		eZ	35	53		3					
		eE	37	25		2					
		e(S?) _E	40	19		11					
		iSN	40	28		8	-0.8				
		mN	40	40		11	1.8				
		iE	42	07		8		-0.8			
eLE	42	4		30							
eZ	43	39		4							
ME ₁	45	43		17		0.8					
MZ ₁	46	54		16			0.1				
MN ₁	48	16		13	1.5						
ME ₂	48	42		12		1.0					
MN ₂	51	24		12	2.6						
MZ ₂	52	00		11			0.2				
F	18	35									

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time			Per	Amplitude			Δ	Remarks
			Greenwich)				A_N	A_E	A_Z		
			h.	m.	s.	s.	mm.	mm.	mm.	km,	
126	1940 Aug. 23	ePN	03	40	30	4				(88°?)	
		eNE		40	40	6	0.3	0.1			
		eZ		40	42	3			0.2		
		mN		44	31	8	0.3				
		i(S?)N		51	11	10	-1.0				
		iE		51	17	9		+1.0			
		mN		51	19	10	2.0				
		iN		51	49	7	+1.6				
		mE		51	57	10		0.8			
		SS?E		58	44	20		0.6			
		N		58	52	18	1.0				
		eLE	04	05.3	34						
		eLN		06.0	35						
		MN1		13	32	20	1.0				
		ME1		13	41	16		0.5			
		ME2		18	44	18		0.5			
		MN2		21	31	20	1.1				
		MZ		21	34	16			0.1		
		F	06	35							
		127	" 24	eE	13	39	48	5			
eE				46	56	12					
eLN				50.8	14						
MN				52	28	14	0.2				
ME				53	46	12		0.2			
F	14			30							
128	" 29	eLE	14	59.3	22						
		MN	15	01	32	16	0.2				
		ME		01	38	16		0.2			
		F	15	10							
							-----oOo-----				

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>			Per s.	Amplitude			Δ km.	Remarks		
			h.	m.	s.		A_N	A_E	A_Z				
CONSTANTS.													
							V	T_0	$\xi:1$	r/T_0^2			
			Wiechert			N	219	8.9	4.7	0.017			
						E	230	7.5	3.3	0.021			
						Z	62	5.0	5.4	0.048			
			Mainka			N	98	12.0	2.7	0.009			
						E	84	8.1	9.6	0.020			
							mm.	mm.	mm.	km.			
129	1940 Sept. 3	i?E eN iE iN iN iE ?N F	01 29 22 32 38 32 48 36 40 36 45 36 46 40 59 02 00	4 6 5 7 7 7 12							Masked by micro-seisms. Deep focus.		
130	" 10	e?E eLE MN ME F	13 34.4 40.7 42 55 43 29 13 50	14 13? 12				0.3					
131	" 12	eN iE iE iN F	00 35 16 35 23 38 43 38 45 00 55	4 4 10 10		0.4	+1.1 +0.6					Deep focus?	
132	" 12	iPNZ ePE iN mZ iZ mN iSN ME mN ME mN iN eLN eLE MN ₁ ME ₁ ME ₂ MZ ₁ MN ₂ MZ ₂ F	13 23 14 23 14 23 39 23 39 24 07 24 20 27 58 28 13 28 42 29 02 29 03 29 45 30.0 30.4 32 50 34 02 35 31 35 47 36 06 36 18 15 10	5 5 5 4 4 7 9 9 18 9 21 9 35 21 20 16 13 15 15 15		-1.0 +1.2		+0.3 0.5 -0.7	3010 (27:1)			iP Condensation. NS & EW measurements from Mainka. Radiogram from Administrator Rabaul to Prime Minister's Dept. Canberra says: "Severe earth tremor recorded Rabaul commencing 11.20 p.m. 12th Sept. intensity 7 to 8 continued for 3 min. with lessened severity further 3 min., principal shock then died away, but succeeded by many shocks varying intensity, total of 72 distinct tremors being recorded up to 8.30 a.m. 13th Sept. Tremors appeared to originate from same centre probably 70 miles SSE of Rabaul. Shock felt severely Kokopo District, also Wide Bay, Pondo, Namatanai and Buka."	
(Continued on next sheet)													

RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time <i>Greenwich</i>			Per s.	Amplitude			Δ km,	Remarks	
			h.	m.	s.		A_N mm.	A_E mm.	A_Z mm.			
133	1940 Sept. 15	eE	14	01	28	2				Small waves.		
		eN	01	34								
		mE	01	59		6		0.8				
		mN	02	03		6	0.5					
		mE	02	23		5		1.0				
134	" 17	F	14	10								
		e?E	08	13	00							
		eN	13	34		4						
		eSNE	17	34		8						
		eLN	20	4		22						
		ME	22	45		12		0.2				
		MN	23	10		10	0.2					
135	" 19	F	08	40						iP Condensation. Focal depth about 100 km.		
		iPNEZ	18	24	18	5	-1.5	-3.1	+0.5		2560 (23°0)	
		iEZ	24	30		4		-13.7	-2.0			
		mN	24	33		4	5.3					
		i(pP?)NE	24	36		4	-5.6	-10.5				
		mZ	24	39		4			2.9			
		i(sP?)N	24	53		4	+7.3					
		iE	24	56		5		-7.9				
		iZ	25	11		4			-1.5			
		iNE	25	12		6	-11.2	-11.7				
		mZ	25	15		4			2.0			
		mE	25	46		6		6.7				
		iZ	25	56		4			-0.9			
		mN	26	00		7	4.5					
		mE	26	02		7		5.8				
		iE	26	57		6		-5.5				
		iN	27	09		6	-4.6					
		i(S?)N	28	01		5	-6.0?					
						(25)						
						4		+7.2				
						5	+40.0					
						5		-32.0				
						5			-1.5			
				5			2.1					
				5	33.8							
				(25)								
				6		18.5						
				24			0.6					
				8								
				12	40+							
				11		13.1						
136	" 20	F	21	15						Masked by micro- seisms. Perhaps earlier.		
		eE	00	07	36							
		eN	07	39								
		iSN	11	25		10	-1.2					
		mN	12	08		9	2.0					
		eLN	12	3		22						
		MN	15	18		12	4.4					
ME	15	30		12		1.3						
137	" 20	F	01	30								
		eN	01	50.0								
		eLN	52.4		16							
138	" 21	MN	53	11		12	0.3					
		F	02	15								
		eNE	14	55	53							
				55	56		<1			A few very small waves superposed on microseisms. Felt at Queanbeyan, N.S.W. Houses shaken, people awakened. Very little damage. Distance about 160 miles.		
				14	56.6							

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _N mm.	A _E mm.	A _Z mm.		
139	1940 Sept. 22	iPNEZ	22	59	49	3	+0.7	-1.0	-0.6		iP Dilatation. Azimuth SE / NW. Deep focus. Heavy microseisms throughout.
		iSN	23	06	03	7	+9.2				
		iSE		06	06	8		+1.8			
		ME		06	18	9		2.8			
		ScS?N		09	37	14	3.1				
		NE		09	53	14	3.5	2.6			
		E		12	53	14		1.7			
		N		13	01	10	2.8				
140	" 25	F	00	25							
		eN	14	45.4							
		eLE		50.0	19						
		eLN		50.2	19						
		MN		52.7	12	0.2					
141	" 26	F	15	20					2890 (26°0)	Focal depth about 150 km.	
		ePNEZ	04	01	55	2					
		iPNEZ		01	56	3	1.0	0.7			0.2
		ipPNEZ		02	27	4	-0.9	-0.6			-0.5
		mN		02	38	9	1.2				
		isPE		02	44	5		-1.2			
		mN		02	48	8	1.2				
		iSN		06	02	9	1.8				
		isSN		07	18	8	+5.0				
		ME		07	23	9		1.9			
		ME		07	46	9		2.7			
		SSN		07	56	10	5.2				
		mN		09	23	10	5.8				
ME		09	49	10		2.4					
iScSE		12	43	6		-2.2					
142	" 30	F	05	10						Preceded by very heavy microseisms	
		eLN	11	26.4	17						
		MNE		29.0	16	1.3	0.5				
143	" 30	ME2		31	41	16		0.6		Preceded by very heavy microseisms	
		F	12	25							
		eLN	14	23.7	17						
		MN		26	04	16	0.8				
ME		26	17	16		0.3					
F	15	00									

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D. J. K. O'CONNELL, S. J.
Director.
1940, Sept. 3rd.

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)		Per	Amplitude			Δ	Remarks
			h.	m. s.		s.	A _N	A _E		
CONSTANTS.										
			Wiechert	N	215	9.3	4.6	0.017		
				E	228	7.6	3.3	0.023		
				Z	61	5.1	5.8	0.050		
			Mainka	N	96	11.9	3.2	0.011	} to Oct.17.	
				E	80	8.1	8.1	0.021		
						mm.	mm.	mm.	km.	
144	1940 Oct. 1	eN	21	44.2						Obscured by micro-seisms.
		eLN _E		49.8	23					
		LNE		50.3	23	1.3	1.0			
		MZ		52 09	20			0.1		
		ME		52 32	16		0.4			
		MN		54 03	10	2.0				
145	" 2	F	23	10						Obscured by micro-seisms.
		eN	01	01.4						
		eLN		06.6	25					
		eLE		07.1	19					
		MN		08 42	16	0.5				
		ME		10 25	11		0.3			
146	" 2	F	01	40						
		eN	10	34.0						
		eLN		38.1	17					
		eLE		38.8	19					
		MN		39 49	15	0.3				
		ME		40 43	15		0.1			
147	" 3	F	11	20						
		eN	14	12.2						
		MN		17 17	13	0.2				
148	" 4	F	14	30						Superposed on Coda of No.148.
		e(PP)Z	08	14 32	3					
		eE		14 40	4					
		eN		14 42	4					
		eN		21 37	9	0.2				
		eE		31 45	9		0.1			
		eN		24 08	19	0.3				
		e(SS)N		31 09	26	0.5				
		eLQN		42.5	34					
		eLRN		47.5	34					
		MZ		52 40	22			0.1		
		MNE		53 00	19	0.8	0.2			
149	" 4	F	11	25						
		eN	09	43.0	8					
150	" 7	eN	01	30 05	3					
		eZ		30 16	2					
		ME		31 12	5		0.5			
		iN		34 55	7	+1.0				
		mN		35 09	10	0.6				
		F	01	45						
151	" 7	iZ	06	51 15	2			0.1		mN from Mainka.
		iZ		51 45	3			+0.3		
		mN	07	01 08	10	0.4				
		F	07	25						
152	" 11	eNE	18	59.0	6					
		eN	19	05 05	16					
		eN		07 01	22					
		eE		12.2	18					
		eLN		23.8	31					
		ME		26 26	21			0.1		
		ME		28 11	18			0.2		
		MN		28 50	18	1.0				
		F	21	20						

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _H mm.	A _E mm.	A _Z mm.		
153	1940 Oct. 13	eLN	13	39.0		18					
		MN1		42	00		13	0.3			
		MN2		44	00		11	0.2			
154	" 14	F	14	05							
		eLN	02	46.2		22					
155	" 18	MN		52	15		20	0.2			
		F	03	10							
156	" 18	eLN	19	38.2		25?					
		MN		44	22		13	0.2			
		ME		45	10		9		0.2		
157	" 19	F	19	55							
		eN	22	21.1							
158	" 19	MN		23	37		14	0.2			
		F	22	30							
159	" 25	MN	07	08	14		12	0.1			Very shallow waves.
		F	09	10							
160	" 26	eN	11	10.8							
		eLN		12.0		18					
		ME		14	16		18		0.2		
161	" 27	MN		16	01		13	0.1			
		F	11	45							
162	" 29	iNE	15	02	52		8	+0.5	+1.0		
		MN		03	08		8	0.5			
163	" 30	F	15	15							
		eLN	15	40.0		18					
164	" 31	MN		41	48		14	0.2			
		F	15	55							
		eE	06	03	21						Masked by heavy microseisms.
165	" 31	eLE		34.3		25					
		MNE		40.1		22	0.2	0.3			
166	" 31	F	07	30							
		eN	08	16	12		7				
167	" 31	MN		18	39		13	0.2			
		F	08	30							
168	" 31	iN	11	57	53		4	-1.8			Preceding waves small and obscured by microseisms. Deep focus.
		MN		57	56		4	2.6			
169	" 31	e(L)N	12	01.3		14					
		iE		03	20		5		+0.5		
170	" 31	F	12	15							
		eN	01	59.0		5					
171	" 31	iSE	02	03	58		5		-0.5		
		iSN		04	02		6	+0.7			
172	" 31	SS?E		05	05		7		0.5		
		eLN		07.9		22					
173	" 31	ME		09	46		12		0.3		
		MN		12	06		14	0.2			
174	" 31	F	02	40							
		eLNE	05	10.2		22					
175	" 31	MN		13	36		11	0.3			
		ME		13	42		11		0.3		
176	" 31	F	05	25							
		e?N	11	03.9							
177	" 31	eLE		39.0		18?					Shallow waves.
		eLN		40.2		18					
178	" 31	F	12	10							

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Mainka Constants Oct. 17 to Oct. 31

	V	T ₀	ε:1	r/T ₀ ²
N	88	12.1	5.7	0.010
E	83	11.2	6.8	0.010

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ	Remarks
			h.	m.	s.		A_N	A_E	A_Z		
CONSTANTS											
							V	T_0	$\xi:1$	r/T_0^2	
Wiechert			N				219	9.1	4.4	0.017	
			E				227	7.5	3.2	0.028	
			Z				60	5.0	5.2	0.042	
Mainka			N				94	12.1	5.1	0.008	
			E				76	11.2	6.6	0.010	
							mm.	mm.	mm.	km.	
167	1940 Nov. 7	e?E eN eZ iE iN iE eLE F	14	06	28	2					Deep focus.
				09	24	5					
				09	29	4					
				15	48	4		+1.1			
				16	58	5	+0.5				
				16	59	6		-1.0			
				18	.9	18					
			14	40							
168	" 8	eN eSE iSN eLN MN F	08	27	02	4					Masked by micro-seisms.
				31	06	5					
				31	07	5	+0.8				
				33	.2	16					
				34	14	14	0.2				
			08	55							
169	" 8	ePN iPE iPN iPZ mNE iSN iSE mN mE mN mE mE eLNE MN MZ ME F	10	39	06	4	0.3			2470 (22.2)	
				39	08	5		-1.0			
				39	11	5	+0.8				
				39	12	5			-0.2		
				39	15	5	0.8	1.6			
				43	10	11	-1.7				
				43	12	6		+1.5			
				43	20	13	3.0				
				43	27	13		2.3			
				43	36	13	2.7				
				43	42	13		1.9			
				44	09	13		2.0			
				44	.8	22					
				46	08	16	2.8				
				46	40	18			0.1		
				47	03	16		2.9			
			12	15							
	" 8		23	44	to						shallow waves, possibly not seismic.
	" 9		06	10)						Preceding waves masked by micro-seisms.
170	" 9	eN eLN MN ME F	11	09	.2	7					
				11	.9	21					
				13	12	16	0.4				
				14	05	15		0.4			
			11	35							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _x mm.	A _E mm.	A _Z mm.		
171	1940 Nov. 10	i?E	01	59	48	5		-1.0		Preceded by large microseisms. E-W record hard to interpret owing to entangling of lines.	
		i?N		59	51	5	?				
		iE	02	01	08	5		-1.0			
		mE		01	20	5		1.3			
		iE		01	54	5		-2.4			
		mNE		02	56	8	1.8	2.3			
		mE		08	55	9		1.4			
		iN		19	10		10	-1.7			
		eN		20	.0		29				
		mE		20	24		20		0.8		
		eN		25	.0		27				
		eLN		32	.7		31				
		eLN		40	.4		44?				
		MN		57	47		22	0.8			
		F		04	20						
172	" 10	eN	21	47	00	8					
		eLNE		49	.9	17					
		ME		52	31	18		0.3			
		MN		54	08	13	0.3				
173	" 15	F	22	20							
		eLN	11	47	.0	12					
		ME		51	16	11		0.2			
174	" 15	MN		56	38	9	0.3				
		F		12	10						
		e(L)NE	13	18	.4	19					
175	" 15	MN		26	.8	18	0.3				
		F	Lost in No. 175.								
176	" 15	eLN	13	42	.2	18					
		F	Lost in No. 175.								
177	" 16	e(S)NE	13	53	53	9					
		eL		57	.4	18					
		MNE	14	02	.1	15	0.5	0.2			
		F		14	50						
178	" 17	eLN	07	35	.4	15			Preceded by micro- seisms.		
		MN		36	12	13	0.4				
		F		07	45						
		iPN	06	01	26	4	+0.5			2850 (25°6)	
		iZ		01	39	4				+0.2	
		iE		02	20	4		-0.5			
		iSE		05	58	10		-1.5			
		eLN		07	.3		24				
		ME ₁		08	30		16			0.7	
		MN ₁		08	47		17	1.6			
179	" 17	ME ₂		11	49		9		2.0		
		MN ₂		13	52		9	3.3			
		F		07	20						
		ePN	19	48	26	4					
		PPN		49	21		5	0.5			
		eSN		53	21		?				
180	" 18	iSSE		54	43		5		-1.0		
		eLE		56	.5		19				
		MN		59	20		16	0.3			
		ME		20	00	27	13		0.5		
		F		20	30						
		eE		28	08		5				
180	" 18	eLN		30	.4		14				
		F		12	50						
		eN	12	28	03	7					

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
							A _N mm.	A _E mm.	A _Z mm.		
181	1940 Nov. 19	i(P)N	15	13	21	5	-0.5				
		i(S)NE	22	31		5	-0.5	-0.5			
		eE	22	53		8					
		eLN	38	8		23					
		MN	48	11		17	0.2				
182	" 22	F	16	55							
		eP?N	09	05	58						
		eSN	11	20		15	0.5				
		eLN	14	8		22					
		eLE	15	5		22					
		ME	16	43		19		0.4			
		MN	16	51		20	0.5				
183	" 27	F	09	50							
		ePNZ	14	47	37	3				3150	Felt at Neinduk,
		iPPPNZ	48	37		7	+1.1		0.1	(28°3)	N. Baining R.F. 6,
		iSN	52	33		11	+1.6				Kavieng R.F. 5,
		MN	53	15		18	2.7				Rabaul R.F. 4-5.
		mNE	55	44		8	2.5	2.4			
		eLN	55	8		32					
		MN1	58	03		22	3.9				
		MZ	58	28		22			0.2		
		ME1	58	32		18		4.5			
		ME2	15	00	32	12		9.0			
		MN2	01	26		14	6.3				
		MN3	05	53		11	7.3				
184	" 28	F	16	50							
		e?E	14	41	41	3					
		eN	42	23		3					
		eLN	50	8		18					
		MN	52	41		13	1.0				
185	" 29	ME	52	47		13		0.3			
		F	15	25							
		eN	22	09	4						
186	" 30	eLN	22	5		22					
		MN	24	54		14	0.2				
		F	22	45							
187	" 30	eLN	10	34	8	?					
		MN	37	01		14	0.4				
		ME	37	20		15		0.3			
188	" 30	F	10	50							
		eLN	16	24	1	16					
		MN	26	32		13	0.5				
188	" 30	ME	26	39		13?		0.2			
		F	16	40							
		MN	22	44	15	14	0.3				
188	" 30	ME	44	19		14		0.2			
		F	23	00							

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks
			h.	m.	s.		s.	A_N	A_E		
CONSTANTS											
		Wiechert	N	V	T_0	S:1	r/T_0^2				
			E	218	9.4	5.5	0.020				
			Z	226	7.6	3.6	0.027				
		Mainka	N	60	5.2	5.5	0.041				
			E	89	12.1	5.6	0.008				
				72	11.6	7.2	0.010				
						mm.	mm.	mm.	km.		
189	1940 Dec. 4	eZ	13	12	50	39					
		iNE	14	13		3	+0.5	-0.5			
		iNE	16	51		3	+0.5	-0.5			
		eLN	19.0			30					
		MN	21	22		13	0.4				
190	" 4	F	Lost in No. 190								
		eE	13	20	49	4					
		iN	22	26		4	+1.5				
		eLN	24.4			34					
		MN	28	49		17	2.1				
		ME	30	25		14		1.6			
		MZ	32	26		10			0.1		
191	" 8	F	14	25							
		eE	03	23	18	4					
		eN	23	20		4					
		eLN	28.1			19					
		MN	29	11		17	0.2				
		ME	32	03		16		0.1			
192	" 8	F	Lost in No. 192								
		eE	03	37	43	4					
		eLN	43.5			17					
		MN	44	53		13	0.3				
		ME	46	16		12		0.1			
193	" 8	F	04	15							
		eN	06	29.5							
		eE	29.8								
		eLN	35.0			21					
		MN	39	04		10	0.5				
		ME	39	30		11		0.1			
194	" 8	F	07	30							
		eE	17	54	09	4					
		eN	54	28		4					
		eN	57	38		8					
		eLN	58.9			16					
195	" 13	F	18	10							
		eNE	15	18	25	4					
		iE	18	36		4		-0.6			
		iE	18	59		4		-0.7			
		ME	19	17		13		0.9			
		MN	19	21		13	0.9				
196	" 14	F	15	45							
		eE	07	37	09	5					
		iNE	37	42		7	-0.3	-0.5			
		iNE	38	16		7	-0.3	-0.5			
		iNE	38	36		7	+0.2	+0.4			
		ME	44	49		11		0.2			
		F	07	55							

Preliminaries masked by preceding Eq.

Looks like short period waves from small near shock superposed on surface waves of a more distant one.

Readings from Mainka.

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

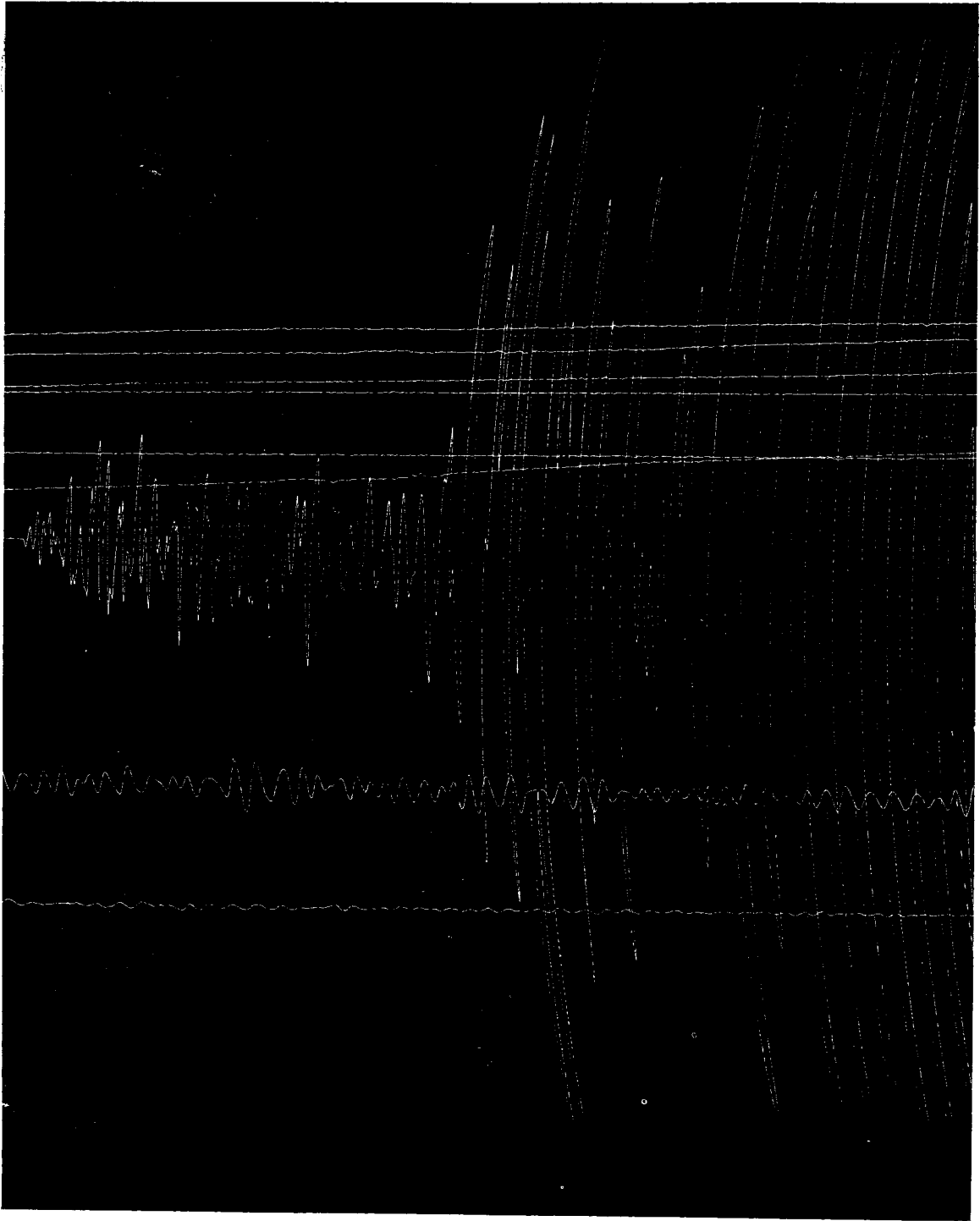
RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
							A _W mm.	A _E mm.	A _Z mm.		
197	1940 Dec. 14	eLE	16	13.4	16					From Mainka.	
		ME		14 11	11		0.3				
		MN		14 19	11	0.2					
		F	16	30							
198	" 15	eL	13	21.4	14					" "	
		ME		23 09	10		0.1				
		MN		26 56	11	0.1					
		F	13	35							
199	" 17	eE	01	30.8	7						
		eN		31 19							
		eE		35.1	13						
		eLE		36.3	18						
		eLN		36.4	23						
		ME		37 20	15		0.5				
		MN		37 24	19	0.7					
		F	02	30							
200	" 17	ePZ	14	49 02	4				3690 (33°2)		
		iPNE		49 03	4	+0.3	-0.2				
		iZ		49 06	3			-0.2			
		iN		49 10	4	+0.6					
		iSE		54 30	5		+0.5				
		iSN		54 31	7?	-1.1					
		iE		57 55	7		-0.8				
		iE		59 21	8		-2.0				
		iN		59 28	7	-2.5					
		iE	15	00 42	5		-2.8				
		iN		00 44	5	+2.1					
		iN		01 45	7	-3.0					
		iE		01 54	6		-4.7				
		eLE		02.8	24						
		eLN		03.0	24						
		MN ₁		04 02	17	3.4					
		ME ₁		04 08	11		3.1				
		ME ₂		05 54	11		3.5				
MZ		05 59	11			0.1					
MN ₂		06 23	11	24							
F	16	40									
201	" 18	eP?Z	05	38 51	4?				3310 (29°8)		
		ePNE		38 55	4						
		iN		39 18	4	+0.4					
		iSNE		43 59	6	-1.1	-1.3				
		iE		46 22	6		-2.5				
		iN		46 23	6	-3.8					
		iN		47 09	5	+2.7					
		iN		47 53	5	+3.1					
		iN		48 31	4	-3.7					
		iE		48 33	4		-4.7				
		iN		49 08	4	+3.7					
		iE		49 09	4		-5.3				
		ScS?E		49 34	10		4.8				
		ME		50 09	8		6.4				
MN		50 17	8	5.3							
F	06	55									
202	" 18	eE	12	56.6							
		ME		58 18	12		0.2				
		MN		58 24	14	0.1					
		F	13	10							

(Concluded on next sheet)

RIVERVIEW COLLEGE (S.N.) OBSERVATORY,
SYDNEY.



↑ S
↓ N

Seismogram (initial portion) of 1910 Nov. 9 [Exact actual size].
 $P = 6^m 52^s (G_2)$ $S = 6^m 11^s$ $E_p = 2700 \text{ km.}$
 1000 kilo. Wiechert Astat. pend. Seismometer (N's Comp.) m.m.
 $T_0 = 8.1 \text{ s.}, V = 2.03, \epsilon = 10.6$ Clock corr. = +44 s. Paper rate = 14.5 per min.

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ	Remarks			
							A _N	A _E	A _Z					
			h.	m.	s.	s.	mm.	mm.	mm.	km.				
203	1940 Dec.22	P?NEZ	12	38	02						Heavy microseisms present.			
		iEZ		38	31	4		-0.9	-0.2					
		iNE		39	42	5	-1.0	-1.6						
		iSN		42	46	7	-1.5							
		mN		43	59	7	1.7							
		mE		44	06	10		0.8						
		eLN		45	.8	33								
		MN1		47	25	19	4.0							
		MZ		48	22	21			0.1					
		ME		48	30	21		2.5						
		MN2		51	51	11	3.5							
		F	14	30										
		204	" 24	eLN	20	58	.2	15?						A few waves.
				F	21	10								
205	" 28	ePZ	16	46	52	4				5610 (50°5)				
		iPNE		46	55	4	+1.2	+0.4						
		iZ		46	56	4			+0.7					
		mNE		47	01	4	2.2	0.6						
		mN		47	13	4	2.1							
		iN		47	52	5	-1.5							
		PPN		48	50	5	1.0							
		iPPE		48	54	5		-1.2						
		iSE		54	11	5		-1.0						
		iN		54	15	6	+1.5							
		iE		54	16	5		-2.0						
		mNE		54	24	6	1.8	3.8						
		mN		54	47	7	1.9							
		mN		55	28	7	2.0							
		mE		55	33	7		2.3						
		iScSE		56	44	5		-2.0						
		iE		57	09	6		-2.6						
		SSSN		58	32	7	1.1							
		iNE		59	59	6	-1.8	+3.5						
		eLE	17	01	.3	30								
		ME1		06	01	15		4.0						
		MN1		06	14	19	3.0							
		ME2		07	06	19		4.1						
MN2,MZ		07	21	19	3.3		0.1							
MN3,ME3		08	44	17	3.8	4.7								
F	19	10												
206	" 30	eLN	16	08	.2	16								
		MN		09	29	11	0.2							
		F	16	20										

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D.J.K.O'CONNELL,S.J.
Director.