International Seismological Centre From the ISC collection scanned by SISMOS

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	233 .	7.7	4.1	0.018
	(3	75	13.1	5.2	0.012
A^E	(1	247	8.5	4.5	0.038
	(3	104	12.0	3.0	0.022
A^Z	(2	64	5.2	2.4	0.117

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1937								
2	Jany, 4	e_{NE}	22 58 51						
		i_N	23 04 28	5	+1.5				
		eL	05.2	20					
		mE	05 57	11		3.3			
		MN	07 15	9	2.3				
		ME	08 38	12		2.7			
		F	23 55						
2	" 5	e_N	00 07 14						
		e_N	12 10						
		eL_E	14.1	17					
		mE	15 58	10		3.1			
		MN	17 55	10	2.5				
		ME	18 55	11		2.7			
		F	01 10						
3	" 5	$e?_N$	04 53.3	2					
		e_N	58 49	3					
		i_N	05 04 59	5	+1.5				
		iE	05 01	5		+1.0			
		$e(L)_E$	06.4	15					
		ME	10 30	10		0.9			
		MN	11 28	10	2.3				
		F	05 45						
4	" 5	i_N	10 29 13	5	-0.9				
		eL_E	32.7	15					
		MN	34 10	12	1.1				
		ME	34 17	12		1.2			
		F	11 10						
5	" 5	e_N	21 57 27						
		eL	22 05.4	21					
		MN	12 48	17	0.3				
		ME	13 26	17		0.2			
		F	22 30						
6	" 6	e_N	03 58 43						
		$e(S)_N$	04 03 17	9					
		eL_E	03.8	15					
		ME	07 25	15		0.8			
		MN	08 31	14	0.6				
		F	04 45						
7	" 6	e_N	18 48.2						
		eL_E	51.3	18					
		MN	55 13	10	0.2				
		F	19 05						

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ROYAL OBSERVATORY 22 MAR 1937 EDINBURGH

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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 mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1937								
8	Jany. 7	eP_{NEZ}	13 33 21	3				8980 (80°8)	
		eS_N	43 41	4					
		i_N	43 47	6	+3.4				
		i_E	43 49	6		-1.7			
		i_N	44 05	7	+6.2				
		i_E	44 10	5		-6.5			
		i_N	44 42	5	+3.1				
		m_N	44 58	7	4.1				
		$e(SS)_E$	48.9	17					
		m_N	49 30	20	3.0				
		m_E	49 43	17		4.0			
		$e(SSS)_E$	52.9	35					
		m_E	55 51	30		5.5			
		eL_N	57.9	70?					
		eL_E	58.5	50					
		ME_1	14 02 26	24		9.6			
		MZ_1	04 42	22			0.2		
		MZ_2	10 13	20			0.3		
		MN_1	10 42	24	12.5				
		MN_2	13 16	22	16.6				
		ME_2	14 07	20		15.3			
		F	17 00						
9	" 9	eL	03 38.3	17					Earlier phases obscured by micro-seisms.
		ME	38 51	13		0.3			
		MN	39 18	12	0.4				
		F	03 50						
10	" 9	e_N	05 39.9						
		eL	43.6	14					
		ME	45 03	11					
		F	05 55						
11	" 15	e_N	05 20.5	3					
		e_N	28.4	7					
		eL	35.4	17					
		MN	39 12	15	0.3				
		ME	41 21	10		0.2			
		F	05 50						
12	" 17	e_N	08 07.6						
		eL	14.0	14					
		MN	16 02	12	0.2				
		F	08 30						
13	" 22	e_N	09 58.2						
		eL	10 04.1	16					
		MN	06 53	10	0.5				
		ME	07 11	10		0.2			
		F	10 35						

(Continued on next sheet.)

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RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich) h. m. s.	Per	Amplitude. A_N	A_E	A_Z	Δ	Remarks.
	1937			s.	mm	mm	mm	km.	
15	Jan.23	iP_N	11 01 50	4	-0.8			3045	
		iZ	01 57	2			-0.4	(27?4)	
		m_N	02 00	5	2.3				
		i_{NZ}	02 18	4	+2.9		-0.2		
		i_E	02 20	4		-1.0			
		m_Z	02 23	4			0.7		
		S_N	06 37						
		i_N	07 26	7	+12.8				
		iE	08 59	6		-9.3			
		MN	11 53	19	8.8				
		ME	12 04	16		11.3			
		F	14 00						
16	" 25	ePNEZ	06 39 34	3				2590	
		iNE	39 40	6	-3.5	-1.5		(23?3)	
		iE	41 06	7		-3.6			
		i_N	41 10	6	+8.2				
		eSE	43 47	10?					
		iNE	44 08	7	+6.3	-10.0			
		iZ	44 37	6			+1.3		
		m_N	45 23	10	36.0				
		mZ	45 32	12			0.5		
		mE	45 55	8		25.0			
		i_N	46 27	10	+38.0				
		LE	47.0	14					
		iME	47 19	10		-52.0			
		MN	48 03	12	85.3				
		MZ_1	49 09	14			0.6		
		ME	49 12	12		69			
		MZ_2	53 10	9			3.6		
		F	10 00						
17	" 26	e_N	07 34.7						Masked by micro-seisms.
		MN	40 41	11	0.6				
		ME	44 26	12		0.3			
		F	08 10						
18	" 26	eE	20 23.0						
		ME	27 53	8		0.2			
		F	20 35						

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WM.O'LEARY, S.J.
Director.
1937, Feb.9th.

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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	$\frac{\varepsilon}{T_o^2}$
A	(1)	223	7.9	4.1	0.017
	(3)	137	9.5	4.3	0.020
A	(1)	222	8.6	4.3	0.019
	(3)	53	11.8	5.4	0.009
A	(2)	61	5.2	3.4	0.055

No	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1937								
19	Feb. 1	e_N	09 20 18						
		$e(S)_N$	24 16	8					
		m_N	24 45	14	1.0				
		eL	27.6	29					
		ME	29 53	20		1.0			
		MN	30 01	20	1.4				
		F	10 10						
20	" 12	$e?_E$	05 06.6						
		e_N	07.4	8					
		e_N	10 01	7					
		e(L)	13.6	17?					
		ME	16 15	10		0.5			
		MN	16 31	8	2.0				
		F	05 50						
21	" 21	iP_{NZ}	07 14 59	3	-0.5		+0.1	8180 (73°6)	Readings from Mainka and Wiechert Vertical. Wiech.N-S & E-W out of commission from 3h 20m to 11h 15m.
		eP_E	15 01	3		0.1			
		iS_E	24 34	9		-1.1			
		iS_N	24 37	9	-0.8				
		PS_E	25 01	28		1.4			
		PS_N	25 03	28	0.9				
		eSS_N	28 54	24					
		eE	29 14	24					
		mN	30 01	24	0.9				
		mE	35 32	28		1.8			
		eL_E	35.7	42					
		ME_1	41 03	23		1.9			
		MN_1	42 03	21	1.5				
		ME_2	46 20	23		2.0			
		MN_2	46 42	21	2.7				
		MZ	53 55	14			0.1		
		F	10 25						
22	" 25	e_E	10 53.5						
		e_N	56.8						
		eL	59.2	18					
		ME	59 45	14		0.2			
		MN	11 00 45	12	0.3				
		F	11 10						
23	" 27	e_N	21 21.1						
		eNE	24 58	5		0.5			
		mE	25 06	7		0.5			
		mN	25 17	8	0.4				
		eL	29.5	17					M small and indefinite.
		F	21 40						

12 APR 1937 EDINBURGH

WM. O'LEARY, S.J.
Director.
1937, March 1.

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RIVERVIEW COLLEGE OBSERVATORY acknowledges with thanks the receipt of the following Bulletins during January and February 1937.

STATIONS.	BULLETINS.
Adelaide	1936, December, 1937, January Prel.
Apia	1936, October-December.
Barcelona	1935, August4-1936, March 2.
Beograd	1935, January-December, 1936 Jan-June Prc
Berkeley etc	1934, April-1935, September.
Bucarest	1936, October, November.
Chiufeng	1936, November, December.
Christchurch	1936, November, December Prelim.
Georgetown (Seismol.despatches).	1936, August-October.
Gottingen	1936, April-June.
Helwan	1936, September-December.
Hong Kong	1936, October, November.
Jesuit Seismol.Association	1936, Nos.24, 25, 26, 27.
Kew	1936, November, December.
Kobe	1935, July-September.
Koti	1933, July-Dec. 1934, January-December.
Ksara	1936, October-December Prelim.
La Plata	1936, October, November.
Manila	1936, October, November. Nov. Dec. Prelim
Melbourne	1936, October-December.
Nanking	1936, July-September.
New Guinea (Eq. records)	1936.
Ottawa	1936, October, November.
Oxford I.S.S.	1931, July-September.
Paris	1936, October, November.
Pasadena	1936, October.
Perth	1936, September19-December 19.
Prague	1936, April-September.
Rathfarnham	1936, October-December.
Rio de Janeiro	1930, 1931, 1932.
Saint Louis	1936, June, July.
San Fernando	1936, September-December.
Strasbourg	1936, October, November.
" Bull. d'echanges	1936, No.10, 1937 No.1.
Stuttgart	1935, January-December.
Sydney	1936, November, December.
Tokyo (Seismometrical report)	1936, January-June.
Tortosa (Ebro)	1935, April-September.
Trieste	1936, January-March.
Uccle	1936, July 1-September 4.
U.R.S.S.(Stations teleseismiques)	1936, January-June.
U.S.C.& G.S. (Washington)	1936, November 13, December 21.
Wellington	1935, October-1936 March. Nov.Dec.Prel.
Zagreb	1935, July-September.

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Academie des Sciences de l'URSS.	Publications de l'Institut Seismologique Nos. 75,76,77,78.
Dominion Observatory, Ottawa, Canada.	Bibliography of Seismology,Vol.XII Nos. 10,11. Gravity and Isostasy by A.H.Miller & G.Hughson.
University Observatory, Oxford.	International Seismological Summary, 1931 July, August & September.
Koninklijk Magnetisch en Meteorologisch Observatorium, Batavia.	Pilot balloon observations in the Netherlands Indies 1936, Aug-Nov.
Dominion Observatory, Wellington.	Bulletin of the Dominion Obs. Nos. 113, 114, 116.
Weather Buareau, Manila.	Seismological Bulletin for 1935 July-December.
Rev.Emm Ma.S.Navarro Neumann.	Sur les causes des tremblement de terre.

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Kobe Meteorological Observatory, Japan.	Seismological Bulletin of the Imperial Marine Observatory and Kobe Meteorological Obs. Vol.XI,No.5.
Earthquake Research Intitute, Tokyo Imperial University.	Bulletin of the Earthquake Research Institute Vol.XIV,Part 4. Seismometrical report 1936,pts.1,2
Imperial Academy, Tokyo.	Proceedings of the Imperial Academy, Vol.XII,Nos.8,9,10.
Observatorio del Ebro, Tortosa.	Boletin Mensual Vol.XXVI. num.4-5-6, 7-8-9.
U.S. Dept. of Commerce. Coast & Geodetic Survey.	Earthquake Investigations in California 1934-35.Special pub.No.201
University of California.	Earthquakes in California and the Registration of Earthquakes at Berkeley etc. from April 1,1934 to Sept.30,1935.
Professore G. Agamennone, Rome.	Esame di alcune profundita ipocentrali calcolate con la formula dell'Inglada. G.Agamennone. La Perturbazioni magnetische in relazione con i terremoti. G.A. Corrado Guzzanti.G.Agamennone. La frana di Marino registrata nel R.Osservatorio Geodynamico di Rocca di Papa.G.Agamennone.
Wurtt. Erdbebendienst, Stuttgart.	Seismische Bericht der Wurttembergischen Erdbebenwarten Jahrgang 1935. Bearbeitit von Dr.W. Hiller.
Institut Sismologique a Tasmajdan, Beograd.	Annuaire Microseismique, 1935, Annee XV.
Observatoire de Zi-Ka-Wei, Shanghai, China.	Observations Magnetiques, tome XX. Annee 1935.
Union Geodesique et Geophysique International.	Bulletin Bibliographique trimestri 1936, April-October.
Dr. S.W.Visser,	Some remarks on deep focus earthquakes in the I.S.S. 2nd.paper.
Meteorological Observatory, Malta University.	General abstract of meteorological Observations and Rainfall Returns, November, December, 1936.
Observatorio Nacional, Rio de Janeiro.	Boletin Sismologico do Observatorio Nacional 1930 a 1932.
Geofizicki Institut, Zagreb.	Meteorologischer Monatsbericht, 1935, January-April.
Universite de Strasbourg, Faculte des Sciences.	Annuaire de l'Institut de Physique du Globe, 1934 Deuxieme partie, Seismologie.

WM. O'LEARY, S.J.
Director.
1937. March2.

1937, March.

International Seismological Centre From the ISC collection scanned by SISMOS

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

[illegible] 19" 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)	211	8.1	3.8	0.017
	(3)	92	11.9	3.9	0.012
A^W	(1)	234	8.5	4.4	0.020
	(3)	79	9.5	11.1	0.011
A^Z	(2)	63	5.1	3.6	0.061

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks.
	1937.								
24	March 5	e_E	13 30 59						
		e_N	31 07	2					
		e_{NE}	34 54	5					
		MNZ	35 38	4	1.8		0.3		
		ME	35 41	7		1.3			
		F	13 55						
25	" 9	$e?_N$	16 33.0						Times approximate. Clock correction uncertain.
		MN	17 01.5	17	0.2				
		F	17 20						
26	" 14	e_N	01 55	Approximately.					Contact clock stopped for adjustments.
		F	02 30	"					
27	" 14	e_N	12 41.3						
		eL_N	47.0	26					
		ME	48.8	23		0.2			
		F	13 10						
28	" 30	MN	15 07 52	11	0.3				
		ME	09 35	11		0.2			
		F	15 25						

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Corrected February Constants.

Mainka (No.3).

	V	T_o	ε:1	r/T_o^2
N-S	88	11.8	4.3	0.013
E-W	81	9.5	5.4	0.013

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RIVERVIEW COLLEGE OBSERVATORY acknowledges the following Bulletins and Publications during March 1937.

Cartuja	1936,	January-May Provisional.
Chiufeng	1937,	January.
Christchurch	1937,	January Preliminary.
Florissant	1936,	July, September.
Georgetown	1936,	Nov.Dec.(Seismol.Despatches only)
Graz	1936,	March 2-October 28.
Helwan	1937,	January.
Hong Kong	1936,	December, 1937 January.
Jesuit Seismol.Association	1936,	Nos.28,29. 1937, Nos.1,2.
Karlsruhe	1936,	July-December.
Kew	1937,	January.
Kobenhavn	1934,	Oct-Dec. 1935,Jan-March.
Ksara	1935,	Jan-Dec. 1937, Jan.Prelim.
Lemberg	1935,	Sept.Dec. 1936, Jan.1-Sept.6.
Little Rock	1936,	June-October.
Manila	1936,	December. 1937,January.
Ottawa	1936,	December.
Paris	1936,	December.
Pasadena	1936,	November.
Pennsylvania	1936,	July-December.
Perth	1936,	December 19-31.
Prague	1936,	October-December.
Saint Louis	1936,	August, September.
Santa Clara	1936,	October, November.
Scpresby-Sund	1934,	July-Dec. 1935 January-Decemb.
Strasbourg	1936,	December.
Tananarive	1936,	May-July.
Toledo	1936,	June-September.
U.S.C.& G.S.(Washington)	1936,	Dec.20,21.1937 Jan.7,25,Feb.7.
Wellington	1936,	April. 1937 January Prelim.
Wien	1936,	January 1-July 12.

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Koninklijk Magnetischen Meteorologisch Observatorium Batavia.	Pilotballoon Observations made in Netherlands Indies Dec.1936.
Weather Bureau, Manila, P.I.	Meteorological Bulletin 1935 May-August.
Dominion Observatory, Wellington, N.Z.	The Seismicity of N.Z. Cities & Towns. R.C.Hayes.
Observatorio Astronomico y Meteorologico de Quito.	Boletin Meteorologico 1936 March April.
Imperial Marine Observatory, Kobe.	Memoirs of the Imperial Marine Observatory Vol.VI, No.3
Far Eastern Branch of the Academy of Sciences of U.S.S.R.	Bulletin of Far Eastern Branch etc. No.18, 1936.
Imperial Academy, Tokyo.	Proceedings of the Imperial Academy Vol.XIII, No.1.
Bureau International de l'Heure.	Bulletin Horaire, Tome VI, No.95
Georgetown University Seismological Observatory.	Seismological Despatches 1936 November, December.

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WM.O'LEARY, S.J.
Director.
1937, Apr.3.

International Seismological Centre From the ISC collection scanned by SISMOS

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 (460 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	8.0	3.8	0.019
	3	92	11.9	5.0	0.012
A_E	1	227	8.5	4.3	0.024
	3	78	9.3	13.5	0.012
A_Z	2	62	5.1	3.3	0.050

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1937		h. m. s.	s.	mm	mm	mm	km.	
29	April 1	$e?_E$	17 29.3		c				
		eL	36.3	21					
		M_N	41 19	13	0.6				
		M_E	42 31	15		0.2			
		F	Lost in No.30						
30	" 1	e	17 59.3						
		i_{NE}	18 02 38	8	+2.1	+1.7			
		eL	05.4	18					
		M_N	06 21	13	0.4				
		F	18 25						
31	" 2	e_E	05 36 58						
		e_N	37 01						
		i_E	37 02	4		-0.9			
		i_E	39 42	5		+1.2			
		i_N	39 43	5	+2.2				
		M_N	44 12	15	0.3				
		i_{NE}	45 01	5	+2.5	-1.3			
		F	06 00						
32	" 3	e_N	03 57.2						
		e_N	04 03.1	11					
		eL	04.4	22					
		M_N	09 46	15	1.0				
		M_E	10 22	13		1.0			
		F	04 55						
33	" 5	iP_{NE}	07 03 46	5	+2.6	-1.3		3590	
		i_{NE}	05 13	5	+3.0	-2.0		(32°3)	
		eS_N	09 08	8					In minute mark.
		iS_N	09 14	9	-2.2				
		i_E	09 24	8		-1.4			
		m_{NE}	09 46	9	3.1	3.1			
		i_E	12 10	?		-3.0			
		i_N	12 21	5	+4.2				
		L_E	15.1	30					
		M_E	19 12	15		27.0			
		M_Z	20 34	12			3.1		
		M_N	20 42	13	64.1				
		F	09 00						
34	" 5	e	23 50.1						Masked by micro-seisms.
		eL	56.8	18					
		M_E	58 55	11		1.8			
		M_N	00 00 11	13	1.6				
		F	00 30						

(Continued on next sheet)

International Seismological Centre From the ISC collection scanned by SISMOS

4 (continued) 1937, April.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude A_N mm	Amplitude A_E mm	Amplitude A_Z mm	Δ km.	Remarks.
	1937								
35	April 8	e_E	15 08 48						
		e_N	08 53	4					
		ME	11 55	9		1.0			
		MN	12 34	9	1.1				
		F	15 20						
36	" 11	e_{NZ}	04 52 53						
		i_E	56 12	4		-0.8			
		e_N	56 12						
		MN	56 34	13	1.4				
		ME	56 40	16		1.1			
		F	05 50						
37	" 11	e_N	06 30 47						
		e_N	34 37	9					
		e_L	35 36	22					
		MN	37 16	16	0.6				Deep focus.
38	" 16	iP_{NE}	03 07 25	4	+0.5	+1.8			
		eP_Z	07 26	4			-1.0		
		iP_Z	07 27	4			-3.5		Dilatation, ENE.
		iNEZ	07 31	4	+3.2	+15.0	-2.7		
		iZ	08 50	5					Striking group of
		iNE	08 54	6	-10.5	-23.2			reflections, especially on E-W & Z.
		mZ	08 59	6			4.0		
		mE	09 02	6		37.0			
		i(S)N	12 04	5	+27.1				
		i(S)Z	12 05	5			-5.2		S group very striking.
		i(S)E	12 07	5		>-77.0			
		mN	12 09	5	60.8				
		iE	14 19	9		+39.7			
		i_N	14 38	11	+52.0				Very prominent group on N-S and Z.
		i_E	14 49	10		-56.0			
		mZ	14 53	16			4.2		Long waves very indefinite. Period increases at 3h 13.6m on N-S and 3h 14.3m on Z.
		mN	15 04	16	>71				
		MZ	18 14	19			1.3		
		MN	18 49	12	42.3				
		F	06 00						Surface waves small on E-W.
39	" 24	e_E	05 05 53	4					
		e_N	06 07	4					
		MN	14 06	13		0.2			
		iE	14 42	4			+1.8		
		F	05 20						
40	" 28	e_E	14 09.0						
		ME	12 25	14			0.2		
		MN	13 58	14	0.2				
		F	14 25						
41	" 29	e_N	14 17.0						
		i_E	17 27	5			-0.6		
		i_E	17 54	7			-0.6		
		e_N	24.2	20					
		e_N	30.[illegible]	18					
		e_L	38.7	25					
		MN	43 03	22		0.2			
		ME	46 15	21			0.2		
		F	20 15						

WM. O'LEARY, S.J.
Director.
1937, May 4.

International Seismological Centre From the ISC collection scanned by SISMOS

RIVERVIEW COLLEGE OBSERVATORY acknowledges with thanks the receipt of the undermentioned Bulletins and Publications during April, 1937.

Adelaide	1937 February Preliminary.
Apia	1937 January-March.
Bucarest	1937 January.
Chiufeng	1937 February.
Christchurch	1937 February Preliminary.
Florissant	1936 August & October.
Hamburg	1936 September 21-1937 February 17.
Helwan	1937 February.
Hong Kong	1937 February.
Jena	1936 January-December.
Jesuit Seismological Assoc	1937, Nos.3,4,5.
Kew	1937 February.
Ksara	1937 February Provisional.
La Plata	1936 December, 1937 Hanuary, Febr.
Ottawa	1937 January, February.
Oxford (Internat.Seismol.Summ.)	1931 October-December.
Paris	1937 January, February.
Perth	1936 December 19-31, 1937 Jan.6-22.
Rathfarnham	1937 January, February.
San Fernando	1937 January, Fenruary.
Strasbourg	1937 January, February. Bull.d'ech.2
Sydney	1937, January- March.
Tortosa	1935 October-December.
Uccle	1936 September 5-December 31.
U.S.C.& G.S.(Washington)	1937 Feb.21,March 9, 9, 14.
Wellington & Auxiliary Stations	1937 February Preliminary.

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Weather Bureau, Manila, P.I.	Annual Report parts I & II 1934. Temperature conditions in the eye of some typhoons.By Rev.C.E.Deppermann.
Seismological Laboratory, Pasadena, Cal.	Structure of the Earth's crust and the spreading of the Continents. By Beno Gutenberg. The Amplitudes of waves to,be expected in Seismic Prospecting.Gutenberg. On some problems concerning the seismic field methods. B.Gutenberg. On Microseisms.-B.Gutenberg. Materials for the study of deep focus earthquakes.-B.Gutenberg & C.F.Ritcher
Observatoire de Tananarive, Madagascar.	Bulletin Meteorologique Mensual 1936 July-December.
Observatorio del Salto, Chile.	Investigaciones sobre la accion de la actividad solar en las trasmissiones de radio. Investigaciones sobre la variacione secular de la declinacion magnetica en Chile. Resumen de la memoria annual del Observatorio del Salto al cumplir 18 anos de existencia. Estudios effectuados por la expedicion cientifica al volcan Descabezado. El Observatorio geofisico del Cerro Santa Lucia de Santiago.
Meteorological Observatory, Malta University.	Meteorological Observations 1936. General Abstract for Jan. Feb. 1937. Rainfall Returns for Jan. Feb. 1937.

International Seismological Centre From the ISC collection scanned by SISMOS

Dominion Observatory, Wellington, N.Z.	A subsoil survey of Wellington City By. L. Bastings, D.Sc.,F.Inst.P.
R. Stazione Aerologico dell Osservatorio Met.-Geody. Montecassino.	Osservazione Meteoro-Sismische Settembre-Ott. 1936-XV.
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Imperial Academy, Tokyo.	Proceddings of the Imperial Academy, Volume XIII, No.2,
Observatorio del Ebro, Tortosa.	Boletin Mensual del Observatorio del Ebro, Vol.XXVI, Num.10-11-12,
Reichsanstalt für Erdbebeh-forschung, Jena.	Seismische Registrierungen in Jena 1 Jan. bis 31 Dez.1935.Von G.Krumbach. Beiträge zur erdbebenkundlichen Bantechnik und Bodenmechanik.-A.Sieberg. Die gesitzmässige Verteilung der tektonischen Verformungzonen in einer Geosynklinale.Von.August Sieberg. Tabelle der Normalschwere von 47° bis 56°Breite fur sehrgenane relative Schweremessungen, Von O.Meisser, Temperaturkompensiertes Stabpendel Von. O.Meisser. Die Grundlagen zur Beurteilung von Verkehrserschütterungen Von H.Martin. Untersuchungen am Schüttsltisch.Von H. Martin. Ein Piezoelektrischer Beschleunigangs-messer.Von A.Hermann und O.Meisser. Der Koppelungsfaktor bei glavanometrisch registrierenden Seismographen Von Gerhard Schmerwitz.
University Observatory, Oxford.	The International Seismological Summary 1931 October,November,December,

1937, May 4th.

WM.O'LEARY,S.J.
Director.

International Seismological Centre From the ISC collection scanned by SISMOS

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	7.9	3.7	0.024
(3)	92	11.8	4.0	0.009
A^E (1)	233	8.3	4.3	0.019
(3)	82	9.5	4.8	0.010
A^Z (2)	61	5.2	2.8	0.099

No	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1937		h. m. s.	s.	mm	mm	mm	km.	
42	May 9	e?N	15 03.4						
		eN	08.7						
		eL	23.9	22					
		MN	31 23	22	0.1				
		ME	34 02	20		0.1			
		F	16 15						
43	" 9	eN	21 38.6						A few shallow long waves.
		eL	42.4	21					
44	" 10	iPE	15 30 15	3		-0.5			Deep focus?
		eN	20 20	1					
		iSNE	33 56	4	-1.7	-0.5			
		MN	38 58 ∅∅ ∅∅	13	0.2				
		iE	40 01	4		-1.0			
		F	16 00						
45	" 12	eN	02 51 30						
		eE	51 54						
		e(L)	59.0	14					h m
		ME	03 04 14	12		0.8			F 03 35
46	" 12	eN	10 04.5						
		eL	08.0	16					
		MN	10 03	14	0.1				F 10 20
47	" 12	eN	13 32.3						
		eL	39.5	15					
		MN	41 07	14	0.2				
		F	13 55						
48	" 16	eN	11 43.3						
		eE	46.3						
		eL	53.8	19					
		MN	57 23	12	0.5				
		ME	58 07	18		0.3			F 12 25
49	" 23	ePNE	06 17 20					2300 (20°7)	
		iPE	17 23	4		-0.5			
		eSE	21 10	5					
		mE	21 22	5		1.0			
		MN	24 34	16	0.3				
		F	06 30						
50	" 28	iNZ	20 05 14	2	-0.3		+0.2		
		iE	12 38	4		-1.2			
		iN	12 39	4	-1.0				F 20 15
51	" 31	eZ	15 37 36						Preliminaries ma. ed by microseism
		eNE	38 04						
		iSE	42 15	4		+1.5			
		iN	42 18	4	+1.0				
		iN	42 41	5	+0.9				
		eL	45.9	25					
		MNE	48 25	14	0.9	0.8			WM. O'LEARY S.J. Director.
		F	16 10						

International Seismological Centre From the ISC collection scanned by SISMOS

RIVERVIEW COLLEGE OBSERVATORY acknowledges with thanks the receipt of the following bulletins and publications during May,1937

Adelaide	1937 April Preliminary.
Batavia	1936 July-September.
Berkeley & affiliated stations.	1936 October-December.
Bucarest	1937 February, March.
Chiufeng	1937 March.
Christchurch	1937 March Provisional.
Florissant	1936 November.
Granada	1936 June-September Provisional.
Helwan	1937 March.
Hong Kong	1937 March.
Kew	1937 March.
Ksara	1937 March Provisional.
Little Rock	1936 November.
Manila	1937 February, March Preliminary.
Melbourne	1937 April Preliminary.
Nagoya	1936 January-December.
Pasadena	1936 December.1937 Feb.Local shocks
Phu Lien	1937 March Preliminary.
Saint Louis	1936 October.
Strasbourg	1937 Bulletin d'echanges No.3.
Tananarive	1936 August, September.
Trieste	1936 April-June.
U.S.C.& G.S.(Washington)	1937 March 25.
Wellington & N.Z.stations	1937 March Provisional.
Zagreb	1936 January-June.

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Academia de Ciencia y Artes, Barcelona.	Seccion Meteorologica y Sismica de Observatorio Fabra, Boletin No.24.
Weather Bureau, Manila, P.I.	Meteorological Bulletin for 1935 January-April.
Faculte de Sciences, Universite de Strasbourg.	Annuaire de l'Institut de Physique du Globe 1935-Meteorologie.
Geofizicki Institut, Zagreb.	Meteorologischer Monatsbericht 1935 May-August.
Osservatorio Geofisico, Pompeii.	Il Terremoto Irpino del 23 Luglio 1930. Mons.Prof.Giov.Batt.Alfano.
University of California, Berkely.	Earthquakes in Northern California and the registration of earthquakes at Berkeley-Mount Hamilton etc from October 1,1935 to December 31,1935.
Bureau International de l'Heure.	Bulletin Horaire B.I.H. Tome VI, No.96.
Observatoire de Ksara Liban.	Service Meteorologique en Syrie et an Liban-Climatologie Aeronautique. Ch.Combier.
Imperial Academy, Tokyo.	Proceedings of the Imperial Academy, Vol.XIII,No.3.
Osservatorio Meteorico-Geodynam. Montecassino.	Osservazione Meteoro-Sismische November-December 1936.
Department of Terrestrial Magnetism, Carnegie Institution of Washington.	Recent high temperature researches in Silicates and its significance in Igneous Geology. By Norman L. Bowen. Statistical Aspects of Long-range Weather Forecasting. By A.G.McNish

International Seismological Centre From the ISC collection scanned by SISMOS

Dept. of Terrestrial Magnetism Carnegie Institution of Washington.	Progress report on the investigation of magnetic rays.By A.G.McNish. Progress of research in magnetic-diurnal variation at the Dept. of Terrestrial Magnetism--McNish. Report by Department of Terrestrial Magnetism to the Edinburgh Assembly on work done since the Lisbon Assembly. By J.A.Fleming. Results on international comparisons of magnetic horizontal intensity with CIW Sine-galvanometer I. By S.E.Forbush & E.A.Johnson. Investigation of magnetic rays.McNish Design of Tuned Resistance-Capacity Coupled Amplifiers. By E.A.Johnson. Geophysics-Some aspects of Geophysical Cycles. By J.Bartels. Researches of the Dept. of Terrestrial Magnetism bearing on Solar Activity and the Earth's Magnetic and Electric Fields 1932-1934. By J.A.Fleming. Solar activity and its relation to Terrestrial-Magnetic Phenomena.McNish. The new San Miguel Cosmophysical Observatory. By Ignacio Puig,S.J. A conspicuous solar eruption on April 3, 1936 and simultaneous disturbances on magnetic, ionoshperic and earth-current records at Huancayo Magnetic Observatory. By O.W.Torreson,W.E.Scott and H.E.Stanton. A solar eruption and simultaneous disturbances at Huancayo Magnetic Observatory.By O.W.Torreson,W.E.Scott, and H.E.Stanton. The eccentric dipole approximating the earth's magnetic field. By J.Bartels. Application of alternating-current methods of detection to earth-inductors for maring and land observations. By E.A.Johnson. A new type of vertical-intensity induction-variometer. By A.G.McNish. Geomagnetic coordinates for the entire earth. A.G.McNish. Some evidences of the dependence of diurnal variation on magnetic disturbances in the polar latitudes on longitude. By C.T.Kwei. Relationship between auroral and magnetic activities at Little America, first Byrd Antarctic expedition 1928-30. By C.C.Ennis. List of Publications of the Dept. of Terrestrial Magnetism,Carnegie Institution of Washington 1935.
National Research Council of Japan.	Japanese Journal of Astronomy and Geophysics, Vol.XIV,No.2.
Geophysical Laboratory, Carnegie Institution of Washington.	Silicate water systems:the solubility of water in Albrite-melt.By R.W.Goranso

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International Seismological Centre From the ISC collection scanned by SISMOS

ROYAL OBSERVATORY 16 AUG 1937 EDINBURGH

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	s:1	$\frac{r}{T_o^2}$
A^N(1	210	7.8	3.3	0.024
(3	91	11.7	5.0	0.008
A^E(1	229	8.3	4.1	0.020
(3	74	9.1	8.6	0.014
A^Z(2	61	5.1	2.9	0.099

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1937		h. m. s.	s.	mm	mm	mm	km.	
52	June 3	e_N	00 11.0						Masked by micro-seisms.
		eL	14.8	17					
		MN	16 54	12	1.0				
		ME	17 25	12		0.6			
		F	00 40						
53	" 3	eL	01 40.1	17?					Masked by micro-seisms.
		ME	42 03	12		0.3			
		MN	42 12	12	0.4				
		F	01 50						
54	" 7	eL	15 25.3	19					Earlier phases obscured by micro-
		MN	26 37	14	0.3				
		ME	27 36	12		0.5			
		F	15 40						
55	" 8	e_N	03 56.4						
		eL	59.2	18					
		MN	04 02 13	12	0.3				
		F	04 15						
56	" 8	e_N	10 48.0						
		eL	52.0	18					
		MN	53 16	18	0.3				
		F	11 10						
57	" 14	iP_E	12 35 35	3		-0.4		2390	
		eP_{NZ}	35 35	3				(21°5)	
		i_{NE}	35 40	4	+0.4	+1.1			
		eS_{NE}	39 32	6					
		i_N	39 38	6	-4.6				
		iSS_E	39 54	6		+2.6			
		eL	41.2	20					
		MN	42 57	14	3.3				
		ME	43 46	12		1.3			
		F	Lost in No.58						
58	" 14	iP_E	13 15 08	3		-0.5		2400	
		eP_{NZ}	15 08	3				(21°6)	
		i_{NE}	15 11	3	+0.6	+1.3			
		i_E	15 17	4		-2.3			
		i_E	15 26	4		-2.5			
		i_{NE}	16 22	6	+2.7	+2.5			
		eS_N	19 06	7					
		iS_E	19 10	7		-2.5			
		i_N	19 17	7	+6.1				
		i_E	19 22	6		-3.9			
		SS_E	19 31	8		5.3			
		SS_N	19 33	8	4.3				
		eL	21.0	18					
		MZ	22 12	15			0.1		
		ME	22 30	14		2.8			
		MN_1	22 55	13	6.4				
		MN_2	25 56	12	8.4				

(Continued on next sheet)

International Seismological Centre From the ISC collection scanned by SISMOS

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1937								
59	June 15	e_{NE}	10 02 14	5					
		i_{NE}	06 14	5	+1.2	-0.5			
		F	10 20						
60	" 15	e	21 50.2						
		MN	56 26	13	0.2				
		ME	58 11	?		0.1			
		F	22 05						
	" 19	eE	17 12.0						
		iE	15 45	5		+1.0			Masked by micro-seisms.
		iN	15 47	5	+2.6				
		MN	20 27	13	0.4				
		iE	21 48	5		+2.2			
		F	17 30						
62	" 21	iN	14 13 08	5	+1.1				
		iE	15 04	5		-1.3			All other phases obscured by very heavy microseisms.
		i_{NE}	15 54	5	+2.3	+2.5			
		F	14 25						
63	" 21	i_{NE}	15 32 47	4	+1.1	-1.2			
		e_{NE}	42 37						Preliminaries mask ed by very heavy microseisms.
		m_{NE}	42 57	18	1.5	2.5			
		e_{NE}	49 03						
		m_{NE}	49 26	21	0.7	1.5			
		eL_N	16 06.5	24					
		MN	13 20	19	1.2				
		MZ	14 24	18			0.1		
		ME	15 04	18		2.5			
	W2 series	ME	17 19 31	18		0.5			
		F	18 20						
64	" 28	eL	19 40.5	18					
		MN	41 37	12	0.2				
		ME	43 05	12		0.3			
		F	19 55						
65	" 28	e	23 48.3						
		eL	52.2	17					
		ME	52 35	12		0.3			
		MN	53 16	11	0.2				
		F	00 00						

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1937, July 5

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RIVERVIEW COLLEGE OBSERVATORY acknowledges with thanks the receipt of the undermentioned Bulletins and Publications during June,1937.

Adelaide	1937 May Preliminary.
Berkeley & Auxiliary Stations	1936 January-June.
Bucarest	1937 April.
Chiufeng	1937 April.
Christchurch	1937 April Preliminary.
Firenze	1935 April-July.
Helwan	1937 April.
Hong Kong	1937 April.
Kew	1937 April.
Ksara	1937 April Provisional.
La Plata	1937 February, March.
Manila	1937 March & April. April & May Prel.
Melbourne	1937 January-March. May Preliminary.
Nanking	1936 October-December.
Osaka	1935 March 31-June 28.
Ottawa	1937 March.
Paris	1937 March.
Phu Lien	1937 April Preliminary.
Praha	1937 January-March.
Rathfarnham	1937 March, April.
Reykjavik	1936 January-December.
Rome	1931 January-December.
San Fernando	1937 March, April.
Santa Clara	1936 December, 1937 January.
Strasbourg	1937 March.
Sydeny	1937 April.
Trieste	1935 January-December.
U.S.C.& G.S	1937 April 16.
Venezia	1935 January-September.
Wellington & Auxiliary Stations	1937 April Preliminary.
Zinsen	1936 Sept-Dec. 1937 January, February.

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Imperial Academy, Tokyo, Japan.	Proceedings of the Imperial Academy Vol. XIII, No.4.
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Hydrographic Department, Imperial Japanese Navy, Tokyo.	Bulletin of the Hydrographic Dept. Vol.VIII. Magnetic Survey of Japan 1932-33.
Meteorological Observatory, Malta University.	General Abstract of Meteorological Observations for March and April 1937. Rainfall returns March, April 1937.
Central Meteorological Bureau, Melbourne.	Rain Map of Australia for the year 1936.
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Osservatorio Ximeniano Dei PP.Scolopi-Firenze.	Telegrammi Sismologici 1935 Apr-Dec. Bolletino Meteorologico 1935 Apr-Dec.
R. Ufficio Centrale di Meteorologia e Geofisica Roma.	Il terremoti d'italia nel trenta-cinquennaio 1899-1933. Notize sui terremoti osservati in Italia durante l'anno 1913. Bolletino Sismico Anno 1931, Micro-sismi Fascicolo I. Anno 1933 Macro-sismi Fascicolo II.

1937, July 1.

1937, July.

International Seismological Centre From the ISC collection scanned by SISMOS

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	7.8	3.3	0.023
	3	86	11.8	5.4	0.009
A^E	1	235	8.2	4.1	0.024
	3	75	9.3	8.5	0.013
A^Z	2	63	5.1	2.6	0.096

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1937								
66	July 1	eP_{NE}	12 08 47	6	0.4	0.2			
		e_E	10 08	6		0.8			
		e_N	17 02	12					
		eL	21.2	26					
		MN	26 09	21	0.4				
		ME	31 54	21		0.5			
		F	13 15						
67	" 2	iP_{NE}	02 42 35	4	-1.5	-1.4		2680	
		m_{NE}	42 46	4	2.2	3.0		(24°1)	
		i_N	43 05	5	+3.3				
		iS_{NE}	46 55	7	-4.0	-1.4			
		i_{NE}	47 23	7	+8.6	-5.3			
		i_E	47 50	7		+6.2			
		eL	48.5	32					
		ME	50 53	19		4.1			
		F	03 55						
68	" 4	iP_{NE}	06 00 46	5	+1.0	+0.5		2790?	
		$e(S)_E$	05 12	9					
		$e(S)_N$	05 16	9					
		i_N	05 23	7	-5.5				
		i_E	06 29	7		-9.0			
		i_N	06 37	8	-7.6				
		i_N	08 09	12	+8.4				
		MN	12 00	10	10.0				
		ME	13 17	10		16.5			
		F	Lost in No.69.						
69	" 4	eP_{NE}	06 44 17	3				2855	
		i_{NE}	44 31	4	-1.9	-1.7		(25°7)	
		iS_N	48 50	7	+1.7				
		iS_E	48 51	7		-4.0			
		i_N	50 03	7	+7.0				
		i_N	51 02	14	-5.5				
		i_N	51 45	15	+5.0				
		ME	56 51	9		12.5			
		MN	59 00	8	6.0				
		F	Lost in No.70						
70	" 4	iP_N	07 31 39	5	+1.7			2620	
		i_E	31 42	5		-1.0		(23°6)	
		iS_E	35 55	9		-2.8			
		iS_N	35 58						iS_N in minute break.
		i_N	36 11	9	+3.0				
		i_E	36 c22	7		+11.0			
		m_N	36 29	9	7.8				
		i_N	37 07	7	+7.7				
		m_E	37 14	8		6.8			
		m_N	37 18	7	13.0				
		LN	38.8	17					
		ME	41 09	11		9.5			
		MN	42 53	11	11.5				F 09h 15m.

International Seismological Centre From the ISC collection scanned by SISMOS

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1937		h. m. s.	s.	mm	mm	mm	km.	
71	July 13	e_E	10 59.4	5					
		mE	11 00 42	7		0.4			
		mN	00 46	6	0.3				
		MN	06 26	12	0.1				
		F	11 10						
72	" 19	$e?_N$	02 59.1						
		e_N	59.9	3					
		eS_N	03 04 10	11					
		eL	07.5	21					
		MN	10 47	18	0.5				
		ME	10 55	14		1.8			
		F	03 30						
73	" 19	e_E	09 35.5	8					
		e_N	35.7	9					
		eL	37.2	25					
		ME	40 57	11		0.7			
		MN	41 20	15	0.3				
		F	10 10						
74	" 19	$i?_{NE}$	19 56 26	5	+0.8	-1.1			May only be a large microseism.
		eNE	20 06 24	7					
		MN	13 10	16	0.2				
		ME	13 55	14		0.5			
		F	20 30						
75	" 22	e_N	17 34 39	5					
		i_E	36 20	7		-1.0			
		iNE	44 06	9	+0.5	-1.4			
		eL	55.4	36					
		MN	18 03 05	27	0.7				
		ME	08 07	23		0.6			
		F	Lost in No. 76.						
76	" 22	eL	19 19.0						May be earlier.
		MN	23 22	22	0.5				
		ME	25 06	18		0.3			
		F	20 15						
77	" 26	e_E	04 13.4	7					Obscured by micro-seisms.
		ME	24 36	14		0.9			
		MN	24 42	13	0.2				
		F	04 40						
78	" 26	e_{NE}	20 08.1						
		iNE	17 24	5	+3.0	+3.1			
		eE	25 10	7?					
		eL	29.0	25					
		MN	31 24	13	0.2				
		ME	32 14	20		0.3			
		F	21 00						
79	" 29	e_N	18 02.4						
		mE	06 17	7		0.4			
		F	18 15						
80	" 30	e_N	14 06.4	13					
		eL	08.3	13					
		MN	09 36	13	0.3				
		F	Lost in No. 81.						
81	" 30	e_{EZ}	14 08 33	2					
		eL	15.0	20					
		MN_1	16 00	13	1.2				
		MN_2	17 55	13	2.5				
		ME	18 46	12		0.5			
		F	15 10						

WM. O'LEARY, S.J.
Director.
1937, Aug 6.

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RIVERVIEW COLLEGE OBSERVATORY acknowledges with thanks the receipt of the undermentioned bulletins and publications during July 1937.

Adelaide	1937 June Preliminary.
Apia	1937, April-June.
Bergen	1935, 1936.
Bucarest	1937 May.
Chiufeng	1937 May.
Christchurch	1937 May Preliminary.
De Bilt	1934 January-December.
Granada	1936 October-December Provisional.
Hong Kong	1937 May.
Kew	1937 May.
Kobe	1935 October-December.
Ksara	1937 May Provisional.
Melbourne	1937 June Provisional.
Numadu	1936 January-December.
Osaka	1936 January-March.
Ottawa	1937 April.
Oxford (Internat.Seismol.Summy.)	1932 January-March.
Papua (Earthquake Notes)	1937 May, June.
Paris	1937 April.
Pasadena (local shocks)	1937 March.
Perth	1937 Jan.22-27, Feb.12-May 16.
Phu Lien	1936 December. 1937 May Prov.
Rathfarnham	1937 May.
Strasbourg	1937 April.
Sydney	1937 May.
Tiflis	1929, 1930, 1931, 1932, 1935 Apr-Dec. 1936 January-June.
Tokyo	1936 July-December.
Trieste	1936 July-September.
U.R.S.S.Stations teleseismiques.	1936 July-December.
U.R.S.S.,Stations Crimee	1934 July-Dec. 1935 Jany-Dec.
U.R.S.S.,Stations Asie Centrale.	1933,1934,1935,1936 January-March.
U.S.C.& G.S.	1937 May 21, June 8, 21.
Wellington & Auxiliary Stations.	1937 May Preliminary.
Weston	1937 January-February.

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Observatorio Geofisoco Cartuja, Granada.	Resumen del Boletin Meteorologico de 1936.
Dominion Observatory, Ottawa, Canada.	Bibliography of Seismology, Vol.XII, No. 12.
University Observatory, Oxford.	International Seismological Summary 1932 Jan.Feb.Mar. Table for the near Earthquake Pulses by Harold Jeffreys.
Imperial Marine Observatory, Kobe.	Seismological Bulletin of the Imperial Marine Observatory and Kobe Meteorological Observatory Vol.XI, No.4.
Earthquake Research Institute, Tokyo Imperial University.	Bulletin of the Earthquake Research Institute Vol.XV, part XXXXXX 2. Seismometrical Report 1936 Part 3&4.
R. Stazione Aerologica, Montecassino.	Osservazioni Meteoro-Sismische 1937 January, February & March.
Prime Minister's Department, Canberra.	Earthquake Notes from Papua. 1937 May 31 & June 13.

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1937, August 6th.

Wm.O'LEARY, S.J.
Director.

International Seismological Centre From the ISC collection scanned by SISMOS

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)	206	8.2	3.6	0.022
	(3)	87	11.8	4.2	0.009
A^E	(1)	225	8.3	3.9	0.020
	(3)	76	9.2	4.5	0.014
A^Z	(2)	59	5.2	3.0	0.070

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1937		h. m. s.	s.	mm	mm	mm	km.	
82	August 1	e_N	11 16.7						A few long waves.
		$\tilde{e}L$	20.1	24					
		F	11 35						
83	" 5	eP_Z	14 49 37	3			0.2	3045	
		iP_N	49 38	3	+0.7			(27°4)	
		iPR_1N	50 15	6	+1.5				
		iPR_2N	50 34	6	+3.2				
		i_E	50 36	5		-0.9			
		m_N	50 43	7	4.5				
		iS_N	54 24	7	-2.7				
		iSR_1N	55 35	8	-5.7				
		i_E	55 48	6		-4.7			
		m_E	55 58	7		6.1			
		MZ	58 07	7			0.3		L waves absent.
		MN	58 13	7	5.0				
		ME	15 02 12	8		4.5			
		F	16 00						
84	" 6	e_N	05 36.1						
		eL	42.3	18					
		MN	43 22	16	0.2				
		F	05 55						
85	" 11	P_{NEZ}	01 02 52					3920	P in minute mark.
		i_{NE}	02 59	3	+0.3	+1.8		(35°4)	
		i_Z	03 00	3			+1.0		Deep focus?
		iS_N	08 35	4	-8.1				
		iS_E	08 36	4		-20.0			
		i_Z	08 38	3			-0.6		
		i_Z	08 42	4			+1.5		
		i_N	08 43	4	-10.3				
		i_N	11 52	5	+4.5				
		i_E	12 02	6		-13.7			
		$L?_N$	24.4	23?					
		MN	26 54	10	3.8				
		ME	30 54	10		4.3			
		F	03 10						
86	" 16	e	10 32.2						
		eL	37.5	18					
		ME	39 48	11		0.4			
		MN	40 24	12	0.2				
		F	10 55						
87	" 18	e_N	05 09.5						
		i_N	12 41	3	+0.5				
		i_E	13 47	4		-1.7			
		i_E	14 10	5		-3.0			
		i_N	14 13	5	+3.0				
		i_N	14 46	5	+4.1				
		e(L)	16.7	13					
		F	05 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 mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1937								
88	Aug. 20	e_E	07 03.0						
		e(L)	12.3	17					
		MN	15 32	12	0.2				
		F	07 35						
89	" 20	eP_{NE}	12 08 57	3				6010	
		iP_{NE}	09 00	5	-1.0	+0.9		(5491)	
		iS_E	16 38	7		-5.1			
		iS_N	16 39	7	-3.8				
		m_{NE}	16 54	7	8.6	6.3			
		SR_1?E	20 14	28		3.2			
		m_1N	21 00	19	5.9				
		m_2N	21 17	19	7.1				
		m_3N	21 35	19	9.2				
		eL_E	22.8	30					
		ME_L	28 00	30		19.8			
		MN_1	28 56	19	13.0				
		MZ_1	29 01	18			0.2		
		ME_2	33 08	19		15.0			
		MZ_2	33 16	19			0.6		
		MN_2	33 31	19	18.1				
		eW_2	14 44.9	23					W_2 series.
		ME	53 07	19		0.2			
		MN	53 44	19	0.2				
		F	15 30						
90	" 23	$i(P)_E$	16 40 32	5		-1.0			
		mE	42 34	5		0.7			
		$i(S)_N$	46 11	5	+1.0				
		$i(S)_E$	46 14	6		-1.7			
		eL	47.9	16					
		MN	48 53	16	0.7				
		ME	49 19	16		0.6			
		F	17 15						
91	" 24	$i(P)_E$	18 35 00	4		-0.9			
		eE	36 19	8		0.6			
		eN	40 50	6					
		i_E	40 57	6		-1.2			
		eL	42.8	27					
		ME	46 39	20		0.4			
		MN	47 30	15	0.4				
		F	19 35						
92	" 31	$e(P)_{NE}$	02 34.4	5					
		S?NE	38.8	8	0.8				
		eL	41.5	21?					
		MN	43 31	16	0.2				
		F	03 20						
93	" 31	e?N	14 36.8						
		eN	49.9						
		eL	54.0	19					
		MN	15 01 00	19					
		ME	01 08	19		0.2			
		F	15 25						

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WM. O'LEARY, S.J.
Director.
1937, September 4.

International Seismological Centre From the ISC collection scanned by SISMOS

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

φ = 33° 49′ 49″ S. λ = 151° 9′ 30″ E. h = 41·3 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)	209	7.8	3.6	0.022
	(3)	91	11.8	4.2	0.009
A^E	(1)	224	8.3	4.4	0.029
	(3)	83	9.3	5.1	0.012
A^Z	(2)	63	5.1	3.4	0.065

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks.
	1937								
94	Sept. 1	iP_E	08 44 10	4		-1.6		3220	
		iP_Z	44 11	4			-0.4	(29°0)	
		mE	44 30	9		2.3			
		iE	44 42	6		+4.6			
		iN	44 52	6	+2.4				
		iS_N	49 09	7	+5.2				
		eL_E	50.4	33					
		eL_N	50.9	33					
		MZ	51 30	22			0.1		
		MN	52 14	19	2.7				
		ME	52 37	19		4.5			
		F	10 10						
95	" 1	e_N	21 48.2						Masked by micro-seisms.
		eE	51.1						
		eL	53.0	25					
		MN	55 03	16	0.3				
		ME	55 21	16		0.7			
		F	22 10						
96	" 3	eP_Z	19 01(18)					9100	Depth of Focus (200? Km.)
		iP_{NZ}	01(19)	3	+0.5		+0.3	(82°0)	Times may be in error ± 13s.
		iP_E	01(20)	3		-0.7			Clock correction unknown.
		i_Z	01(20)	3			+1.0		
		$iNEZ$	01(32)	4	-2.0	-1.8	+2.0		
		ipP_{NEZ}	02(05)	4	+1.3	+1.9	-1.0		
		iPP_N	05(04)	5	-3.0				
		IS_N	11(39)	6	+4.0				
		iS_E	11(42)	6		-2.5			
		isS_N	12(23)	5	-5.0				
		mN	12(40)	7	10.1				
		mE	13(05)	7		3.5			
		eE	18(.2)	38					
		eL_N	25(.2)	42					
		mE	25(26)	25		1.5			
		MN	30(32)	35	1.5				
		ME	31(16)	31		0.8			
		eW_{2N}	20 57(.1)	25?					
		MN	21 02(21)	25	0.2				
		F	21 50						
97	" 3	eL	21 59(.2)	14					
		MN	22 01(14)	14	0.3				
		ME	01(33)	14		0.2			
		F	22 20						

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RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks
	1937		h. m. s.	s.	mm	mm	mm	km.	
98	Sept. 4	e(P)	06 20(30)						Times may be in error by ± 13s.
		iS_N	24(35)	6	-1.2				
		i_E	24(53)	6		+1.5			
		i_N	25(16)	8	-2.1				
		m_N	26(18)	15	2.5				
		eL_N	26(.4)	27					
		MN	27(37)	16	2.0				
		ME	28(11)	20		1.0			
		F	Lost in No.99.						
99	" 4	e_{NE}	07 17(42)	6					Earlier phases masked by end of No.98.
		i_E	18(30)	7		-1.5			
		F	07 35						
100	" 5	e_N	2106 (31)						
		i_E	08(17)	4		-1.0			Short Periods throughout.
		i_N	08(35)	4	+1.8				
		i_E	09(49)	4		-2.0			
		i_N	11(00)	5	-2.5				
		i_E	11(14)	5		-2.9			
		i_N	11(30)	5	+3.5				
		i_E	11(31)	5		-4.0			
		m_N	12(09)	8	2.0				
		F	21 20						
101	" 8	iP_N	00 52 51	5	+0.4			9180 (82°6)	
		eP_E	52 53	5					
		i_N	56 28	5	+1.1				
		iS_N	01 03 10	5	+1.7				
		iS_E	03 11	5		-1.1			
		i_E	03 32	9		-1.7			
		m_N	05 00	12	0.7				
		m_N	05 28	12	1.0				
		eL_QE	17.1	28					
		eL_RE	24.2	25					
		eL_RN	25.0	25					
		MN	30 03	14	0.5				
		F	02 30						
102	" 8	e_E	14 14 43	3					Short periods throughout.
		eN	15 05	3					
		eN	18 54	4					
		ME	24 05	6		0.4			
		F	14 30						
103	" 15	iP_{NE}	12 32 56	5	-1.7	-0.6		2700	E-W readings from Mainka. Wiechert E-W out of commission.
		iP_Z	32 57	4			-1.2		
		m_{NE}	33 00	5	5.7	1.6			
		m_E	33 21	7		1.6			
		m_N	33 24	8	6.3				
		m_N	33x32	8	7.2				
		i_E	35 20	7		+1.6			
		iS_N	37 17	9	-10.1				
		iS_E	37 19	7		-2.6			
		i_{NE}	37 29	8	+10.1	+6.6			
		i_N	37 55	8	-8.1				
		i_E	38 06	8		-10.5			
		i_E	38 22	8		-12.8			
		i_N	38 27	8	-11.1				
		$e(L)_N$	38.7	24					
		i_N	40 10	17	+24.5				
		MZ	40 40	20			0.4		
		ME	41 00	8		6.6			
		F	14 35						

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SYDNEY, N.S.W

SEISMOLOGICAL BULLETIN.

	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks
	1937								
104	Sept. 17	i_{NE}	09 54 30	8	+0.8	-1.4			
		e_E	10 07.4						
		eL_N	19.4	21					
		M_N	22 18	19	0.5				
		M_E	25 38	18		0.3			
		F	11 20						
105	" 21	iP_{NE}	09 47 45	2	+0.4	-0.4		5620	
		PP_{NE}	49 39	5	0.5	0.7		(50°6)	
		iS_N	55 05	7	+1.5				
		eSS_N	58 08	9					
		m_N	58 29	9	1.2				
		eL_N	10 03.4	21					
		eL_E	04.2	25					
		M_E	08 23	18		0.8			
		M_N	08 27	18	0.7				
		F	Lost in No.106.						
106	" 21	e_E	10 20.4						
		eL	26.4	18					
		M_N	29 06	16	0.3				
		M_E	30 01	17		0.5			
		F	10 55						
107	" 22	e_N	09 29.8						
		eL	33.5	18					
		M_N	36 00	14	0.2				
		M_E	36 58	14		0.1			
		F	09 45						
108	" 23	iP_N	13 11 44	4	-1.1			3020	
		eP_E	11 44	4				(27°2)	
		eZ	11 51	3					
		iZ	11 53	3			+0.7		
		I_{NE}	11 55	4?	+3.4	-0.4			
		i_N	12 56	6	+9.0				
		i_N	13 25	7	+19.4				
		$i(P_cP)_E$	14 59	5		-8.4			
		iS_E	16 27	8		-21.5			
		iS_N	16 31	12	-32.5				
		i_{NEZ}	16 50	12	+26.5	-30.5	+2.0		
		i_E	17 13	10		-63.5			
		LE	19.3	25					
		iME	20 18	14		+76.1			
		ME_1	21 20	14		72+			
		iMN	21 36	12	-58.0				
		MZ_1	22 30	16			1.9		
		MN_1	23 40	14	76+				
		MZ_2	25 46	15			5.0		
		ME_2	24 33	13		63.3			
		MN_2	25 37	14	75+				
		eW_2N	16 01.6	22					
		MN	04 13	20	0.2				
		ME	04 22	18		0.2			
		F	16 20						
	" 23	e_N	17 15.7						
		eL	20.0	19					
		MNE	20 53	15	0.1	0.1			
		F	Lost in No.110.						
111	" 23	$e(P)_{NE}$	17 26 34	3					
		eS_N	31 24	8	0.5				
		eL	35.0	24					
		MN	38 15	14	0.3				
		ME	38 23	14	0.3				
		F	18 10						

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RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W

SEISMOLOGICAL BULLETIN.

	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks
	1937		h. m. s.	s.	mm	mm	mm	km.	
11	Sept. 23	e_E	19 21.1						
		eL	26.2	14					
		ME	27 28	12		0.3			
		MN	29 15	12	0.3				
		F	19 45						
12	" 24	e_N	05 56 02	7					
		eL_N	06 01.1	16					
		ME	01 14	12		0.2			
		MN	02 04	12	0.1				
		F	06 20						
13	" 25	e_N	03 36.2						
		eL	39.4	16					
		MN	41 30	12	0.2				
		MN	41 43	12		0.2			
		F	03 50						
14	" 25	e_E	17 57.1						
		iNE	18 01 07	5	+2.9	+2.3			
		e(L)	01.8	13					
		F	18 20						
15	" 27	iP_{NEZ}	09 03 28	4	+1.2	-3.7	-1.1	5345 (48°1)	iP Dilatation.
		iPP_N	05 07	5	+2.7				
		iPP_{EZ}	05 12	5		-7.2	-1.4		
		i_{NE}	06 10	5	+3.5	-5.4			
		i_E	07 08	5		-2.6			
		i_N	07 36	4	+2.9				
		i_E	07 58	5		+2.9			
		iS_{NE}	10 32	7	+5.0	+6.7			
		iSS_N	13 29	12	+5.7				
		i_N	13 40	16	+5.7				
		m_N	14 02	16	5.2				
		i_N	16 04	7	-3.7				
		eL_E	16.3	44					
		mN_1	18 58	21	7.6				
		mN_2	19 19	21	6.4				
		mN_3	19 38	21	8.5				
		MZ_1	20 45	28			0.1		
		ME_1	21 05	25		5.6			
		iMN	22 19	11	-17.6				
		MZ_2	23 04	22			0.3		
		MN	23 16	14	20.6				
		ME_2	26 00	19		9.1			
		F	Lost in No.116.						
16	" 27	e(P)Z	11 20 34	2					
		eL	33.5,	18					
		ME	38 19	12		0.7			
		MN	39 20	12	0.5				
		F	12 15						
17	" 30	eNE	04 44.0						
		eN	49.1						
		F	05 05						
18	" 30	eE	21 41.1	6					Times approximate only. No minute marks.
		eL	47.4	20					
		MNE	50.5	18	1.1	1.0			
		F	Lost in No.119.						
	" 30	eL	21 58.3	17					Do. do. do.
		MN	22 00.1	15	0.7				
		ME	00.5	17		0.5			
		F	22 50						

WM. O'LEARY, S.J.
Director.
1937-X-11.

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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)	214	8.0	3.9	0.019
	(3)	94	11.8	5.0	0.009
A^E	(1)	226	8.5	4.1	0.020
	(3)	82	9.3	6.9	0.011
A^Z	(2)	62	5.1	3.3	0.069

No.	Date	Phase	Time (Greenwich)	Per	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
	1937		h. m. s.	s.	mm	mm	mm	km.	
120	Oct. 1	eL	15 01.9	18					Masked by heavy microseisms.
		MN	04.0	16	0.3				
		ME	04.3	16		0.3			
		F	15 20						
121	" 1	e_E	19 24.4						Masked by heavy microseisms.
		e_N	28.9						
		e_N	29.9	12					
		eL	31.2	15					
		MN	33.2	13	2.9				
		ME	34.0	15		2.0			
		F	20 30						
122	" 3	eL	03 44.0	16					
		MN	45.7	14	0.3				
		ME	47.2	14		0.2			
		F	03 55						
123	" 4	eL_N	02 08.7	14					A few long waves.
		F	02 15						
124	" 4	e_N	07 48.0						
		eL	55.0	18					
		MN	56.9	14	0.6				
		F	08 30						
125	" 4	e_N	17 59.3						
		eL	18 01.7	16					
		MN	03.3	12	0.2				
		F	18 10						
126	" 6	eP_{NZ}	17 10 38.9	2				3110	On N-S short periods of 2s. superimposed on periods of 11s. Perhaps long periods may belong to another earthquake.
		iS_E	15 30	9		+1.7		(28°0)	
		iS_N	15 31	9	+6.5				
		i_N	15 58	9	-6.5				
		eL	18.1	25					
		MN_1	19 56	18	2.5				
		ME	20 07	16		6.3			
		MN_2	26 03	12	5.8				
		F	18 35						
127	" 7	$e(L)_E$	07 17.2	17					A few waves.
128	" 12	e_N	03 14 47	5					
		i_E	18 22	4		-2.2			
		eL_N	19.7						
		MNE	21 30	11	1.1	3.0			
		F	04 10						
129	" 17	e_{NE}	05 07.6	5					
		eL_N	24.6	24					
		MN	27 48	21	0.3				
		F	05 45						

(Continued on next sheet)

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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 mm	A_E mm	A_Z mm	Δ km.	Remarks
	1937										
130	Oct. 23	eP_Z	17	58	14	2				2545	
		iP_E		58	15	6		-2.2		(22°9)	
		eP_N		58	15	6					
		eS_E	18	02	24						
		eL_N		04.2		21					
		M_N		06	12	14	5.3				
		M_E		06	18	14		2.6			
		F	18	10							
131	" 25	e_N	07	37	40	8					
		e_E		37	45	8					
		e_L		44.6		19					
		M_N		46	00	17	0.3				
		M_E		47	45	15		0.4			
		F	08	00							
132	" 25	iP_{NEZ}	10	38	20	5	+0.6	-2.8	+0.3	2545	
		eS_{NE}		42	30	11				(22°9)	
		m_E		42	51	11		2.6			
		M_N		42	53	11	1.2				
		e_L		44.6		16					
		M_N		46	16	14	4.0				
		M_E		46	23	14		3.0			
		F	11	30							
133	" 28	e_Z	09	40	36	1					
		e_E		40	38	1					
		i_N		40	43	1	+0.2				
		i_E		41	11	2		-1.2			
		i_E		42	09	3		-1.2			
		i_N		42	17	5	+4.0				
		$i(S)_N$		42	31	4	-5.7				
		i_Z		42	33	3			-0.6		
		i_E		42	36	4		-5.0			
		m_E		41	43	4		5.8			
		i_Z		42	47	3			+1.6		
		i_Z		42	54	3			-0.8		
		M_N		44	22	6	5.3				
		M_E		44	57	6		4.9			
		M_N		46	31	6	5.9				
		F	10	20							
134	" 28	e_{NE}	18	23	56	1					
		i_N		25	41	2	+1.5				Very small.
		i_E		25	45	2		-1.4			
		i_E		25	51	2		-1.6			
		m_N		26	13	4	1.0				
		m_E		26	50	7		0.6			
		F	18	40							

WM. O'LEARY, S.J.
Director.
1937-XI-3.

N.B. Since January 1931 all Amplitudes given in these Bulletins are TRACE AMPLITUDES ONLY and do NOT represent actual earth movements.

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RIVERVIEW COLLEGE OBSERVATORY acknowledges with thanks the receipt of the following Bulletins and Publications during September and October 1937.

Adelaide	1937 August, September Preliminary.
Bucarest	1937 July, August.
Christchurch	1937 July, August Preliminary.
Denver	1936 January-December.
Florissant	1936 December, 1937 January-May.
Graz	1936 October 26-1937 February 23.
Harvard	1935 July-December, 1936 Jan-Dec.
Helwan	1937 July, August.
Hong Kong	1937 July, August.
Jesuit Seismological Association	1937 Nos.14,15,16,17,18,19.
Karlsruhe	1937 January-June.
Kew	1937 July, August.
Ksara	1937 July, August Provisional.
La Plata	1937 April-June. 1930 & 1931.
Lemberg	1936 September 7-December 31.
Little Rock	1936 December-1937 March.
Manila	1937 June-August, July-Sept.Prelim.
Melbourne	1937 August, September Preliminary.
Ottawa	1937 June.
Papua (Earthquake Notes)	1937 May 31,June 13,Aug.6,12,Sept.3.
Paris	1937 June, July.
Pasadena	1937 January-March.
Pennsylvania	1937 January-June.
Perth	1937 May 16-July 22.
Phu Lien	1937 January-June, June-August Prel.
Rathfarnham	1937 June, July.
San Fernando	1937 May, June.
Saint Louis	1936 November-1937 May.
Strasbourg	1937 June, July. Bull.d'ech. 5,6.
Sydney	1937 August, September.
Tananarive	1937 January-March.
Tiflis	1933 January-December.
Tortosa	1936 January-June.
Tyosen	1934 January-December.
Uccle	1937 April-June.
U.S.C.& G.S.(Washington)	1937 July 22,26(2),Sept.1,3,8,15.
Venezia	1933 October-1934 June.
Wellington & Aux.Stations	1937 July, August Preliminary.
Wien	1936 July 13-December 29.

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Weather Bureau, Manila, P.I.	Wind and Rainfall distribution in selected Philippine Typhoons. by C.E. Depperman,S.J. Annual Report of W.B. 1935 Parts I & II. Seismological Bulletin 1936 July to December.
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Air Ministry Publications Dept. London.	On the Travel of Seismic Waves from the Baffin Bay Earthquake of Nov.20, 1933. by A.W.Lee,D.Sc.
University College, Auckland, N.Z.	An Ellipticity Correction to Travel-times of P & S Earthquake Waves. A Suggested new Seismological Latitude by K.E.Bullen. Reprints Mathematics Series, Nos.1 & 2.
Prime Minister's Department, Canberra, F.C.T.	Earthquake Notes from Papua, May to September, 1937.
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National Research Council of Japan.	Japanese Journal of Astronomy and Geophysics, Transactions and Abstracts Vol.XIV, No.3.
Geophysical Laboratory, Carnegie Institution Washington	The Earth's Interior, its Nature and Composition, by Leason.H.Adams.
Imperial Academy, Tokyo.	Proceedings of the Imperial Academy, Vol.XII, No.6.
Osservatorio Geofisico del Seminario Patriarcale di Venezia.	Bollettino Mensile, 1933 October-Dec. " " 1934, Jany-June.
Department of Terrestrial Magnetism, Carnegie Institution Washington.	List of Publications of the Department of Terrestrial Magentism 1936. Sixth General Assembly of the Association of Terrestrial Magnetism and Electricity at Edinburgh, Sept.17-26 1936 by J.A.Fleming & H.D.Harradon. Summary of the Year's work Dept. of Terrestrial Magnetism by J.A.Fleming.
Apia Observatory, Western Samoa.	Annual Report for 1934.
Filiale Georgienne de l'Academie des Sciences de l'URSS.	Bulletin de la Station Seismique de Tbilissi 1933.
Bureau International de l'Heure.	Bulletin Horaire du Bureau International de l'Heure Tome VI, No.98.
Observatorio Astronomico de la Universidad Nacional de La Plata.	Contribuciones Geofisicos Tomo V, No.1 2 & 3. Resultados Sismometricos del Ano 1930. Do. Do. Do. 1931. Metodo numérico para el cálculo de los epicentros en base de tres Horas de P.
R. Stazione Aerologico Montecassino.	Osservazioni Meteoro-Sismische June, July, 1937.
Department of Geophysics, Saint Louis University.	The South Eastern Illinois Earthquake of Oct.29, 1934 by Cornelius G.Dahm. Roots of Mountains or Roots of Continents? by J.B.Macelwane,S.J. The Intermediate Earthquake of June 24,1935 by Victor J.Blum,S.J. Modern Trends in Seismological Research by J.B.Macelwane,S.J. A Research Library in the Geophysical Field by J.B.Macelwane,S.J.
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1937, November.

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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. 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_o	ε:1	$\frac{r}{T_o^2}$
A^N (1)	215	8.2	4.1	0.019
(3)	88	12.0	4.1	0.010
A^E (1)	224	8.7	4.5	0.018
A^Z (3)	77	9.5	5.2	0.011
(2)	43	5.3	3.4	0.09

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks
	1937								
135	Nov. 2	e_E	11 06.1						Masked by micro-seisms.
		e_E	08.7	11					
		eL	10.0	21					
		ME	11 13	21		1.1			
		MN	11 45	19	0.8				
		F	11 50						
136	" 4	e_N	22 57.6						A few small waves.
		eL	23 00.6	14					
		F	23 10						
137	" 5	e_{NE}	09 36.8	2					No definite phases.
		e_E	43.5	6					
		e_E	47.9	5					
		e(L)	52.9	21					
		F	10 10						
138	" 6	e?E	07 10.0						Very small, short period waves.
		e_N	11 32	2					
		i_{NE}	11 39	2	+0.4	-0.4			
		F	07 15						
139	" 13	e_N	09 50 34	3					Readings from Mainka. Wiechert out of commission from 3h 46m to 14h 29m.
		e_N	51 47	3					
		e(S)E	56 07	8					
		mE	56 37	8		0.5			
		eL	10 01.6	23					
		MN	04 33	17	1.2				
		ME	06 09	17		1.2			
		F	11 15						
140	" 13	e?N	17 56.6						Early phases masked by micro-seisms.
		e_E	59.6						
		eL	18 06.4	24					
		MN	08h00	16	0.9				
		ME	08 06	18		1.0			
		F	19 00						
141	" 14	eNEZ	11 15.6						
		i_E	22 04	7		-1.8			
		i_N	24 50	6	+1.8				
		i_E	26 22	7		-3.0			
		i_{NE}	30 31	12	+2.1	-2.8			
		eLQ_E	32.6	45					
		eLR_N	40.2	29					
		ME	43 05	21		0.7			
		MN	44 12	23	0.9				
		F	12 55						
142	" 15	e?E	06 32.7						
		e_N	38.2	7					
		eL	40.2	18					
		MN	41 13	14	0.2				
		ME	41 54	12		0.2			
		F	07 00						

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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 mm	A_E mm	A_Z mm	Δ km.	Remarks
	1937								
143	Nov. 18	e_N	02 54 33						
		$i(S)_N$	59 09	7	-1.1				
		eL	03 03.8	24					
		ME	03 56	22		2.0			
		MN	06 44	15	1.5				
		F	03 45						
144	" 23	e_N	08 24.0						
		m_N	25.9	9	0.4				
		F	08 35						
145	" 23	e(L)	14 02.5	17					
		ME	08 19	17		0.2			
		MN	09 44	16	0.2				
		F	Lost in No.146						
146	" 23	eL	14 25.5	19					
		ME	27 19	17		0.2			
		MN	27 39	16	0.2				
		F	14 40						
147	" 25	e_N	01 12.5						
		eL	16.7	17					
		MN	19 41	12	0.5				
		ME	20 19	10		0.2			
		F	01 50						
148	" 25	e_E	04 47.5						
		e_N	51.9	12					
		eL	53.5	16					
		MN	56 12	16	0.4				
		ME	57 04	17		0.3			
		F	05 45						
149	" 26	e_{NE}	11 04 12	4	0.3	0.3			
		eL	19.5	19					
		MN	22 00	19	0.2				
		F	11 40						
150	" 27	e_E	08 17.7						
		eL	25.6	17					
		ME	27 52	16		0.2			
		MN	28 32	16	0.2				
		F	08 55						
151	" 27	e_N	11 01.9						
		eL	06.5	21					
		MN	07 57	14	0.2				
		ME	10 23	14		0.1			
		F	11 30						
152	" 27	e_N	14 19.5						
		eL	23.6	17					
		MN	30 33	17	0.2				
		F	14 55						
153	" 27	eL	18 07.9	24					A few shallow long waves.
154	" 28	e_N	05 38.5						May be earlier.
		e_N	42.5	12					
		MN	56 48	14	1.3				
		F	08 05						
155	" 30	i_N	01 00 35	5	+0.7				
		i_E	00 37	5		+0.8			
		eL	14.5	20					
		MN	20 38	20	0.4				
		ME	22 34	20		0.5			
		F	02 00						
156	" 30	e(L)	13 53.5	21?					
		MN	14 03 01	21	0.2				
		ME	04 21	21		0.3			
		F	14 30						

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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. 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_o	ε:1	$\frac{r}{T_o^2}$
$A^N(1)$	214	8.5	4.6	0.023
(3)	88	12.0	4.2	0.010
$A^E(1)$	230	8.8	4.8	0.019
$A^Z(3)$	80	9.4	5.1	0.012
$A^Z(2)$	62	5.2	2.7	0.08

No.	Date	Phase	Time (Greenwich) h. m. s.	Per s.	Amplitude. A_N mm	A_E mm	A_Z mm	Δ km.	Remarks
	1937								
157	Dec. 2	e_N	16 38.9	14					Earlier phases obscured by micro-seisms.
		eL	40.7	17					
		ME	43 35	17		0.6			
		MN	44 35	17	0.6				
		F	17 10						
158	" 5	$e(P)_E$	15 2[illegible] 10						
		$e(S)_N$	28 33	10					
		e_E	28 53	10					
		eL	31.4	22					
		MN	32 46	15	1.3				
		ME	33 38	18		1.4			
		F	16 20						
159	" 8	e?	08 33.6						
		eNE	42 39	12					
		eNE	51 30	19					
		eL	57.9	22					
		ME	09 05 02	21		0.8			
		MN	07 13	19	0.5				
		F	10 00						
~~160~~	~~" 12~~	~~e_E~~	~~08 03 08~~	~~7~~					
		~~eL~~	09.5	~~27~~					
		MN	~~10~~ 55	15	0.8				
		~~ME~~	11 16	17		0.6			
		F	09 00						
~~160~~	" 8	e?E	16 51 06						
		ePN	51 10	3				3065	
		iSE	55 54	7		-1.0		(27?6)	
		iSN	55 58	6	+1.2				
		mN	56 26	7	1.5				
		mE	56 30	7		1.2			
		eL	59.5	17					
		ME	17 01 09	12		1.8			
		MN	01 18	12	1.8				
		F	17 45						
161	" 12	e_E	08 03 08	7					
		eL	09.5	27					
		MN	10 55	15	0.8				
		ME	11 16	17		0.6			
		F	09 00						
162	" 12	e_E	10 39.8						
		eL	45.6	17					
		ME	47 37	15		0.5			
		MN	50 15	13	0.4				
		F	11 10						

(continued on next sheet)

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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 mm	A_E mm	A_Z mm	Δ km.	Remarks
163	1937 Dec.13	e_E	19 07,8						Early phases obscured by microseisms.
		e_N	12 48	8					
		e_E	13 03	8					
		eL	21.9	25					
		MN	28 41	17	0.7				
		ME	29 58	20		0.6			
		F	20 20						
164	" 16	e_E	08 37.2	2					No well defined phases. Times approx. only. No time marks.
		e_N	37.3	2					
		MN	46.5	12	0.3				
		F	09 10						
165	" 16	$e?_N$	18 42.1						Small waves- no definite phases. Times approximate only.
		e_N	47.6	2					
		m_E	52.1	7		0.3			
		F	19 00						
166	" 17	e_N	04 45.1						
		eL	51.8	17					
		MN	54 52	10	0.2				
		ME	57 38	11		0.3			
		F	05 35						
167	" 17	e_N	09 43.0						
		e_N	51.4						
		eL	10 02.1	20					
		ME	04 47	20		0.2			
		MN	07 05	17	0.2				
		F	10 35						
168	" 18	eL	02 47.2	23					
		MN	49 00	17	0.2				
		F	03 05						
169	" 20	$e(P)_N$	03 41 16	2?					
		$e(S)_N$	45 52	7					
		e_E	46 05	5					
		i_N	46 11	7	+1.3				
		eL	48.8	17					
		ME	51 35	12		2.0			
		MN	51 37	13	0.5				
		F	04 30						
170	" 20	$e(P)_Z$	22 38 34	1?					Preliminaries very small and obscured by micro-seisms.
		e_{NE}	38 35	?					
		i_{NE}	42 00	3	+3.5	-2.9			
		i_N	42 05	4	+4.1				
		i_N	42 36	4	+6.5				
		i_Z	42 52	4			-1.4		
		m_E	43 03	4		9.6			
		m_N	43 05	4	11.0				
		m_Z	43 43	4			1.5		
		L_E	44.0	8					
		ME	45 15	7		7.8			
		MZ	45 56	5			1.6		
		MN	46 49	6	9.7				
		F	23 30						
171	" 22	e_N	04 10.?						
		eL	28.3	27					
		MN	34 54	17	0.2				
		ME	36 24	17		0.3			
		F	05 10						

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SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (Greenwich) h.	m.	s.	Per	Amplitude. A_N	A_E	A_Z	Δ	Remarks
	1937					s.	mm	mm	mm	km.	
172	Dec.23	e(PP)$_E$	13	37	56						
		iScPcSE		43	41	10		-2.5			
		iScPcPcSE		44	53	12		+1.7			
		iPSE		47	38	15		+3.5			
		mE		47	51	17		4.4			
		SSE		54	29	22		3.9			
		SSSE		59	06	15		2.7			
		eLQN	14	05	.7	33					
		eLRE		11	.1	29					
		eLZ		12	.9	25					
		MEL		13	14	24		2.5			
		MN		17	12	19	1.8				
		MZ		26	07	16			0.1		
		ME2		26	27	17		3.9			
	W2 series	ME	15	30	12	20		1.1			
		F	16	30							
173	" 25	e?N	01	21	.5						Preliminaries masked by micro-seisms. Phases hard to identify
		eNE		22	.1						
		eNE		26	.9	9					
		mN		28	38	5	5.2				
		mE		28	57	7		4.9			
174	" 25	eNE	21	22	.4	13					
		eL		29	.0	17					
		F	21	50							
175	" 28	eN	03	16	.6	1					
		iE		21	34	5		-1.0			phases hard to identify.
		iN		24	12	5	+0.8				
		MN		28	11	5	3.1				
		ME		30	44	6		4.8			
		F	04	00							
176	" 28	eN	07	31	.7						
		eL		37	.8	21					
		MN		42	43	17	0.2				
		ME		45	42	17		0.2			
		F	08	05							
177	" 31	e?E	18	16	.9						
		eL		39	.7	21					
		MN		47	44	14	0.2				
		ME		48	28	14		0.2			
		F	19	15							

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ERRATA.

130	Oct.23										
for		eP	17	58	14						
		eS	18	02	24						
read		eP	16	58	14						
		eS	17	02	24						

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WM. O'LEARY, S.J.
Director.