1942 Jan-Dec

Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	μ^3	V_s
N	1	204	9.4	5.6	0.009	4	12.4	12.3	+0.01	343
	3	147	9.5	6.1	0.010					
E	1	231	9.6	6.5	0.007	4	12.8	13.1	+0.04	305
	3	137	9.2	7.2	0.017					
Z	2	58	5.2	6.4	0.018	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
			h. m. s.	s.				km.	
	N.B.	Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin. The amplitudes given are trace amplitudes only. Jeffreys' Tables (R.A.S.Geophys.Suppl.4, no.7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.							
	1942		h m s	s	mm.	mm.	mm.	km.	
1	Jan. 3	eLZ	03 36.6	20					
		MZ	38 08	18			0.4		
		MN	41 35	12	0.2				
		F	Merged in following Eq.						
2	" 3	eZ	04 00 02						
		eN	03 33	12					
		eLZ	06.9	26					
		MZ	08 00	22			0.8		
		MN	08 50	18	0.2				
		F	04 35						
3	" 4	eZ	15 45.5	6					
		MZ	56.0	10			1.0		
		F	16 05						
4	" 7	ePZ	10 53 46	8				3310	NS & EW readings
		iZ	53 56	9			+2.2	(29°8)	from the Mainka.
		eSEZ	58 39	10					
		iSN	58 41	10	-0.5				
		iZ	58 47	12			-2.5		
		eLE	11 01.1	26					
		MN	04 30	18	0.4				
		MZ	04 55	17			4.8		
		ME	05 04	14		0.3			
		F	12 15						
5	" 9	PNZ	06 35 26	4				3160	P in minute mark.
		eN	39 57	8				(28°4)	
		iSE	40 09	7		-1.2			
		iN	40 18	5	+0.5				
		mN	40 31	5	1.3				
		iE	40 40	5		-0.5			
		iN	40 48	8	+1.1				
		iZ	40 57	8			-2.0		
		mN	41 01	9	1.1				
		iSSE	41 14	8		+2.3			
		eLZ	43.2	18					
		ME	44 50	13		1.5			
		MNZ	46 34	12	0.8		2.2		
		F	07 50						
6	" 9	e?Z	13 37 32						
		eLZ	45.8	18					
		ME	47 54	12		0.3			
		MN	48 50	12	0.2				
		F	14 10						

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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		
	1942		h m s	s	mm.	mm.	mm.	km.	
7	Jan.12	iPZ	15 17 16	7			+1.5	3045	Condensation.
		eS_{NE}	21 52	8	0.5	0.5		(27°4)	
		iZ	22 03	8			+1.8		
		iN	22 07	8	+1.0				
		iZ	22 12	8			+2.5		
		mN	22 18	8	2.3				
		iSS_Z	22 56	8			+1.5		
		eLZ	24.8	18					
		MNEZ	28 03	12	1.8	2.6	1.5		F lost in No.8.
8	" 12	iPZ	16 12 57	8			+1.5	3080	Condensation.
		eZ	17 24	10				(27°7)	
		iSE	17 35	7		-0.6			Repetition of No.7
		iNE	17 43	8	+1.0	-1.0			
		iZ	17 44	9			+2.5		
		mN	17 51	8	1.7				
		iSS_Z	18 39	8			+2.3		
		iE	18 45	9		-0.7			
		mE	18 57	9		1.8			
		eLZ	20.5	18					
		ME	23 00	12		3.8			
		MNZ	23 08	12	2.1		2.5		
		F	17 35						
9	" 12	e	23 27 14						
		iZ	27 58	6			-1.0		
		iE	28 13	5		-0.9			
		iN	28 14	5	-0.5				
		iN	28 59	5	-0.6				
		ME	31 31	10		0.3			
		MN	31 34	10	0.3				
		MZ	31 45	12			1.4		
		F	23 40						
10	" 13	$e(L?)_Z$	13 39.6						A few shallow waves
		F	13 50						
11	" 14	eZ	05 18.3						
		eLZ	29.4	28					
		MZ	30 51	22			1.0		
		MN	31 51	20	0.1				
		ME	33 06	19		0.1			
		F	06 10						
12	" 17	eN	06 41 17						
		ME	44 16	12		0.2			
		MZ	45 09	12			0.4		
		MN	45 25	12	0.2				
		F	07 00						
13	" 17	$e(L?)_Z$	20 44.1						A few shallow waves
		F	20 55						
14	" 18	MN	02 18 46	15	0.1				A few shallow waves
		F	02 25						
15	" 19	eLN	04 28.1	20					
		MN	29 04	13	0.2				
		ME	29 37	20		0.2			
		F	05 00						
16	" 20	eNZ	04 19 09	5					
		eN	23 08	12?					
		eLE	25.6	16					
		eLZ	25.7	24					
		MN	29 27	12	0.3				
		MZ	29 39	16			0.7		
		ME	30 04	12		0.2			
		F	04 45						
17	" 20	eLZ	07 16.2	28					
		MZ	18 42	24			0.7		
		ME	24 35	18		0.2			
		F	08 05						

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
18	Jan.21	eNE	12 15 39	4					
		eL$_N$	25.3	18					
		MN	28 06	14	1.4				
		ME	28 29	14		0.2			
		F	13 55						
19	" 23	iPZ	21 37 23	5			+1.0	5510 (49°6)	Condensation.
		ePNE	37 23	5					
		iPP$_Z$	39 17	6			+1.5		
		eS$_N$	44 28	10					
		ME	56 33	18		0.2			
		MZ$_1$	56 48	18			1.0		
		MN	58 32	20	0.2				
		MZ$_2$	59 07	17			2.3		
		F	23 00						
20	" 27	ePZ	13 35 48	4			1.0	3535 (31°8)	H 13 29 24
		iPEZ	35 55	4		+0.5	+2.5		Condensation.
		iNEZ	35 57	4	+1.3	-0.8	-4.5		
		iZ	37 11	5			+3.5		
		iNE	37 12	5	+1.6	-1.0			
		iSE	41 02	7		+3.5			
		iS$_N$	41 04	7	+2.1				
		iE	41 12	10		-7.8			
		iN	41 15	10	+5.9				
		iN	41 51	10	+5.8				
		iE	41 59	10		+4.7			
		iE	42 54	8		-3.7			
		iE	43 39	7		+12.7			After 13h 47m Wiechert NS & EW deranged and M takem from Mainka.
		iN	43 44	8	-9.2				
		iE	45 06	8		-14.4			
		LE	45.5	30					
		iE	46 37	9		-29.5			
		iN	46 39	8	-16.2				MZ$_1$,2,3 from the Wiechert.
				18					
		iN	46 53	8	+32.3				
				18					
		MZ$_1$	47 00	6			5.5		
		iN	47 07	8	-50.0				
				18					
		MZ$_2$	47 34	5			10.3		
		MN$_1$,ME$_1$	47 35	8	42+	60.5+			
		ME$_2$	49 18	8		62.5+			
		MN$_2$	50 07	10	48+				
		ME3	50 55	10		76+			
		MZ$_3$	51 04	10			12.0		
		MN3	51 11	10	51+				
		eW$_2$Z	16 18.6	26					
		MN	19 57	24	0.7				
		MZ	20 00	24			0.7		
		F	17 15						
21	" 27	eE	15 05 27						Small aftershock superposed on Coda of No.20.
		eN	05 34						
		eZ	05 39						
22	" 27	eZ	16 35 57	4					NS & Z readings from Galitzin, EW from Mainka.
		eE	36 01	4					
		iN	36 15	4	+1.2				
		MZ	40 44	9			1.8		
		MN	40 47	9	2.1				
		F	Lost in No.23						

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
23	Jan.27	eE	16 47 14	4					NS & Z readings
		iN	47 33	6	+1.0				from Galitzin, EW
		MZ	50 53	12			1.0		from Mainka.
		MN	51 53	10	1.5				
24	" 27	eE	20 12 52						NS & Z readings
		eN	14 15	6					from Galitzin, EW
		iNZ	14 27	5	1.1		+1.0		from Mainka.
		MN	17 17	12	1.2				
		MZ	17 25	12			1.6		
		F	20 30						
25	" 28	eNE	09 13 21	4					
		eZ	13 22	4					
		iN	13 51	4	-0.5				
		MZ	16 46	12			0.8		
		ME	16 48	12		0.2			
		MN	17 34	9	0.3				
		F	09 30						
26	" 28	eE	10 18 21	4					
		iNZ	18 40	5	+0.3		-1.0		
		iN	19 43	8	+0.6				
		eLEZ	21.3	16					
		MN	22 51	9	0.3				
		MZ	23 08	9			1.8		
		ME	23 20	9		0.3			
		F	10 40						
27	" 28	eE	11 06 14	4					
		eN	07 18	4					
		eLZ	10.4	12					
		MZ	11 51	9			0.8		
		MN	12 04	8	0.2				
		F	11 20						
28	" 28	eE	21 09 08	3					
		iN	10 34	4	+0.4				
		eLE	13.3	13					
		MNE	14 25	9	0.2	0.2			
		MZ	14 40	9			1.5		
		F	21 25						
29	" 28	e?Z	21 29.0						
		iN	33 17	4	+0.5				
		iZ	33 31	4			+1.3		
		iNE	33 35	4	-1.0	-1.0			
		iN	33 46	4	+0.7				
		iE	33 49	5		+1.0			
		mN	33 52	4	1.5				
		iZ	33 57	5			-1.7		
		mNE	34 10	6	1.4	0.8			
		ME	36 52	12		0.5			
		MZ	36 59	12			3.0		
		MN	37 14	11	1.3				
		F	22 05						
30	" 29	MN	03 21 27	14	0.7				
		MZ	21 59	20			0.5		
		F	03 50						
31	" 29	eZ	07 40 27	10					
		eN	44 38	11					
		eZ	44 43	16					
		eLN	47.2	23					
		MZ_1	49 23	28			1.0		
		ME_1	50 07	23		0.1			
		MN	50 17	14	0.5				
		MZ_2	53 43	18			2.5		
		ME_2	53 59	18		0.5			
		F	Lost in No.32.						

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per. s	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks
	1942								
32	Jan.29	e_N	08 20 32						
		MN	29 25	14	0.3				
		ME	30 43	13		0.2			
		MZ	31 40	16			1.5		
		F	09 05						
33	" 29	iPNEZ	09 28 27	4	+1.5	+1.5	-7.1	2460	Dilatation NE.
		iNEZ	28 33	4	-3.4	-2.9	+15.0	(22°2)	Focal depth 100 km.
		ipPNEZ	28 47	7	-3.1	-3.0	+10.5		
		iNEZ	29 09	6	+5.5	+4.4	-21.0		
		iNEZ	29 18	7	+4.8	+6.2	-19.5		
		iNEZ	29 32	7	+6.5	+5.4	-18.0		
		iS_N	32 20	9	-19.5				
		iS_E	32 22	9		-4.1			
		iZ	32 27	9			+19.5		
		m_N	32 30	9	32.5				
		m_E	32 35	10		7.0			
		i_E	32 46	8		-6.8			
		iZ	32 53	10			+28.8		
		isS_N	33 03	9	-24.2				
		m_E	33 06	8		16.8			
		iSS_{NZ}	33 29	8	+16.7		+20.7		
		i_E	33 44	8		-8.8			
		iNZ	33 45	8	+18.5		+29.3		
		eLEZ	34.1	28					
		MZ	36 43	16			27.5		
		MN	36 46	14	7.1				
		ME	37 06	16		8.3			
		F	11 50						
34	" 29	eLZ	15 32.9	16					
		MZ	35 19	16			0.8		
		ME	35 47	11		0.2			
		F	15 50						
35	" 29	eZ	20 35 53	8			1.0		
		MZ	44 13	18			0.6		
		MN	45 21	13	0.2				
		ME	47 21	13		0.1			
		F	21 25						
36	" 30	i_N	12 22 38	4	-0.5				
		i?	31 39	?					
		eL_N	41.5	46					
		MN	45 12	31	0.8				
		MZ	48 24	26			1.4		
		ME	48 34	22		0.3			
		F	13 45						
37	" 31	eL_Z	07 56.8	22					On Galitzin Z
		MZ	58 33	16			0.7		only.
		F	08 10						
38	" 31	e_{EZ}	15 27 50	8					
		e_N	32 57	12					
		eL_N	34.9	18					
		MZ	36 13	18			1.2		
		MN	36 25	15	0.3				
		ME	37 16	15		0.2			
		F	16 15						

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per. s	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks
	1942								
32	Jan.29	e_N	08 20 32						
		MN	29 25	14	0.3				
		ME	30 43	15		0.2			
		MZ	31 40	16			1.5		
		F	09 05						
33	" 29	iP_{NEZ}	09 28 27	4	+1.5	+1.5	-7.1	2460	Dilatation NE.
		i_{NEZ}	28 33	4	-3.4	-2.9	+15.0	(22?2)	Focal depth 100 km.
		ipP_{NEZ}	28 47	7	-3.1	-3.0	+10.5		
		i_{NEZ}	29 09	6	+5.5	+4.4	-21.0		
		i_{NEZ}	29 18	7	+4.8	+6.2	-19.5		
		i_{NEZ}	29 32	7	+6.5	+5.4	-18.0		
		iS_N	32 20	9	-19.5				
		iS_E	32 22	9		-4.1			
		iZ	32 27	9			+19.5		
		mN	32 30	9	32.5				
		mE	32 35	10		7.0			
		iE	32 46	8		-6.8			
		iZ	32 53	10			+28.8		
		isS_N	33 03	9	-24.2				
		mE	33 06	8		16.8			
		iSS_{NZ}	33 29	8	+16.7		+20.7		
		iE	33 44	8		-8.8			
		i_{NZ}	33 45	8	+18.5		+29.3		
		eL_{EZ}	34.1	28					
		MZ	36 43	16			27.5		
		MN	36 46	14	7.1				
		ME	37 06	16		8.3			
		F	11 50						
34	" 29	eLZ	15 32.9	16					
		MZ	35 19	18			0.8		
		ME	35 47	11		0.2			
		F	15 50						
35	" 29	eZ	20 35 53	8			1.0		
		MZ	44 13	18			0.6		
		MN	45 21	13	0.2				
		ME	47 21	13		0.1			
		F	21 25						
36	" 30	i_N	12 22 38	4	-0.5				
		i?	31 39	?					
		eL_N	41.5	46					
		MN	45 12	31	0.8				
		MZ	48 24	26			1.4		
		ME	48 34	22		0.3			
		F	13 45						
37	" 31	eL_Z	07 56.8	22					On Galitzin Z only.
		MZ	58 33	16			0.7		
		F	08 10						
38	" 31	e_{EZ}	15 27 50	8					
		eN	32 57	12					
		eL_N	34.9	18					
		MZ	36 13	18			1.2		
		MN	36 25	15	0.3				
		ME	37 16	15		0.2			
		F	16 15						

(Concluded on next sheet)

1942, January.

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		
	1942		h m s	s	mm.	mm.	mm.	km.	
39	Jan.31	e_N	17 51 56	7					
		e_N	18 04 45	?					
		eL_N	10.0	22					
		MN	14 02	16	0.2				
		MZ	16 22	16			0.6		
		ME	21 53	16		0.2			
		f	18 50						
40	" 31	$i?_N$	20 08 27	5	-0.8				NS readings from Galitzin.
		iZ	13 18	6			-1.0		
		iN	13 30	5	+1.0				
		iE	13 58	5		-1.0			
		iZ	14 10	5			-1.9		
		iN	14 13	6	+1.2				
		mN	14 34	6	3.0				
		iN	15 52	5	+2.5				
		MNEZ	17 30	10	2.8	0.5	2.5		
		F	20 40						
41	" 31	e_N	21 49 19	4					
		eE	49 23	8					
		iN	50 07	7	+0.7				
		iE	50 18	6		-1.0			
		MNZ	53 14	10	0.8		1.5		
		ME	53 25	10		0.5			
		F	22 15						

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

Rivervieu College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49' 46" S. λ = 151° 9' 30" E. h = 25 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	g:1	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	n^2	V_s
N	1	222	9.4	6.2	0.008	4	12.4	12.3	+0.01	343
	3	90	11.9	11.2	0.004					
E	1	224	9.7	7.0	0.005	4	12.8	13.1	+0.04	305
	3	133	9.3	8.7	0.014					
Z	2	61	5.1	5.7	0.008	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h. m. s.	s.	mm.	mm.	mm.	km.	
	N.B.	Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin. The amplitudes given are trace amplitudes only. Jeffreys' Tables (M.A.S.Geophys.Suppl.4,No.7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.							
42	Feb. 1	e?E	06 11 18						
		eN	11 31	5					
		eN	15 40	8					
		eE	15 54	7					
		eN	15 57	7					
		eL_E	19.2	16					
		ME	21 19	12		0.1			
		MN	22 27	12	0.2				
		F	06 45						
43	" 2	ePZ	16 47 57	6					
		iEZ	48 09	6		-0.4	+2.0		
		eE	52 34	9					
		eNE	52 43	9					
		iZ	52 49	7			-1.5		
		eN	53 02	16					
		eLN	54.7	18					
		MN	56 09	15	0.8				
		MEZ	56 53	16		0.1	0.8		
		F	17 45						
44	" 2	eNZ	18 00 34	6					
		eSN	04 20	10					
		eN	04 46	14					
		eL_N	08.5	22					
		ME	09 30	14		0.1			
		MZ	10 11	18			1.0		
		MN	10 54	16	0.2				
		F	18 50						
45	" 5	iP_Z	10 08 38	8			+1.5	2970 (26°7)	Condensation.
		eP_N	08 38	8					
		iPP_Z	09 12	7			+1.5		
		i_Z	10 17	7			+1.5		
		eS_N	13 09	8					
		eS_E	13 13	8					
		iZ	13 22	8			+1.1		
		i_N	13 29	8	-1.7				
		mZ	13 38	8			2.0		
		SS_Z	14 14	9			1.4		
		MZ	18 45	15			1.8		
		MNE	18 50	13	1.1	1.2			
		F	11 25						

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
46	Feb. 5	eZ	11 53.2						
		MZ	57 27	14			0.5		
		MN	57 31	13	0.2				
		ME	57 41	12		0.1			
		F	12 15						
47	" 5	eN	19 31 16	4					
		eE	32 13	5					
		MEZ	35 16	12		0.2	1.2		
		F	19 45						
48	" 6	eZ	15 08.2						
		eL_N	15.5	24					
		MZ	18 20	18			1.2		
		MN	18 29	14	0.2				
		ME	19 04	12		0.2			
		F	15 50						
49	" 7	iZ	09 22 48	4			+1.0		Condensation.
		eE	24 23	8					
		iNE	24 50	4	+0.6	-0.5			
		iZ	25 28	6			+1.6		
		iZ	26 31	6			-1.8		
		MN	28 01	13	0.7				
		MZ	28 13	12			5.5		
		ME	29 01	9		0.8			
		F	10 00						
50	" 7	iPEZ	23 20 40	4		-0.6	+2.5		Condensation.
		iZ	25 11	10			+1.2		
		$e(SS?)_N$	25 31	16					
		eL_N	26.8	22					
		MN	28 08	14	0.6				
		MZ	29 39	14			0.9		
		ME	31 23	14		0.2			
		F	00 25						
51	" 8	iPZ	20 08 11	8			-1.0	3390 (30°5)	Dilatation.
		eN	12 47	22					
		iS_Z	13 09	16			-2.5		
		mN	13 18	22	0.8				
		iE	15 24	10		+1.0			
		eLEZ	16.8	26					
		MN	18 04	20	1.0				
		ME	18 51	18		0.8			
		MZ	19 11	16			5.0		
		F	21 00						
52	" 12	iPNEZ	06 01 43	3	+0.1	+0.2	-1.7	2350 (21°1)	Dilatation NE.
		iS_N	05 31	4	-0.6				
		mNEZ	05 40	6	1.0	0.6	1.2		
		iN	06 12	6	+0.6				
		iZ	06 26	14			+1.5		
		iNE	06 37	6	+0.6	-0.5			
		MN	09 21	13	0.2				
		F	06 35						
53	" 13	$e(P?)_Z$	06 25 39						
		eL_N	34.2	16					
		MN	37 21	16	0.3				
		ME	38 05	16		0.4			
		MZ	38 08	16			3.8		
		F	Lost in No.54.						

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RIVERVIEW COLLEGE OBSERVATORY.

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per s	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks
	1942								
54	Feb.13	e(P?)NE	07 57 22	3					
		iZ	57 25	3			+1.9		Condensation.
		e(S?)NE	08 01 18	5	0.2	0.2			
		iZ	01 21	8			-1.3		
		mZ	01 42	12			2.1		
		eLN	02.4	22					
		eLZ	02.7	26					
		MZ	03 42	20			1.4		
		MN	04 22	14	0.3				
		ME	04 30	16		0.2			
		F	08 40						
55	" 13	eLN	22 28.2	18					
		MZ	30 33	18			0.6		
		MN	30 54	13	0.2				
		F	22 50						
56	" 14	e(P?)N	22 55 32						
		iE	55 36	2		+0.3			
		iNE	56 53	4	+0.5	-0.4			
		iZ	57 01	4			-1.5		
		iN	57 04	6	+1.2				
		iEZ	58 23	8		-0.8	+2.8		
		eN	58 24	9					
		MZ	58 35	10			3.0		
		ME	59 12	8		1.0			
		F	23 05						
57	" 16	iPZ	18 13 44	(3 9			+2.0	2900 (26°1)	Condensation. Owing to uncertainty of clock correction these times may be up to 2 seconds early.
		ePNE	13 44	3					
		mZ	13 56	9			2.5		
		iPPZ	14 20	10			+3.0		
		eSN	18 11	10					
		eE	18 20	10					
		eN	18 42	12					
		eE	18 50	13					
		iSSNEZ	19 14	12	+1.4	-3.6	+3.5		
		iN	19 55	14	+1.5				
		MZ	22 15	16			3.0		
		ME	23 05	13		1.0			
		MN	23 42	12	0.7				
		F	Lost in No.58						
58	" 16	eLZ	19 21.4	22					
		MZ	22.6	18			1.6		
		MN	23.8	17	0.2				
		F	20 00						
59	" 16	eZ	20 28.1	6					
		eLN	34.9	18					
		F	20 50						
60	" 17	iPZ	04 17 39	6			+1.4	3010 (27°1)	Condensation.
		ePN	17 39						
		iSE	22 11	6		-0.6			
		iSN	22 16	8	+1.0				
		iE	22 21	6		-1.0			
		iN	22 30	14	+1.5				
		iZ	22 32	14			-2.5		
		iSSZ	23 14	10			-2.0		
		iSSE	23 17	10		-1.5			
		eLE	25.0	16					
		MZ	26 55	15			2.6		
		MNE	27 20	15	0.7	1.2			
		F	05 45						
61	" 18	iNE	05 48 38	4	-0.5	-0.8			
		iNE	49 19	5	-1.0	+1.5			
		eLN	51.7	11					
		MN	52 17	11	0.5				
		F	06 10						

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per. s	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks
	1942								
62	Feb. 19	eLZ	20 18.1	16					Shallow waves on Galitzin Z.
		F	20 30						
63	" 19	eZ	23 50.1						
		eN	54 41						
		eLN	56.5	18					
		MZ	57 25	18			0.5		
		MN	57 40	17	0.3				
		F	00 20						
64	" 20	eP?N	00 49 33					33°0?	
		iZ	49 59	4			+1.5		Condensation.
		i(PP?)N	50 58	4	-0.5				
		iSNE	54 47	8	+0.5	-0.7			
		iZ	54 51	6			+1.5		
		i(SS?)E	56 17	8		-0.7			
		iZ	56 27	10			-1.7		
		iN	56 29	7	-0.6				
		iZ	56 57	7			+2.4		
		iNZ	57 13	6	+2.0		+3.0		
		eLE	58.0	12					
		ME	01 01 01	8		5.8			
		MNZ	01 05	6	4.8		6.0		
		F	02 10						
65	" 21	ePZ	07 19 06	6				7820	
		iPZ	19 11	6			-1.7	(70°4)	Dilatation..
		iSN	28 15	5	+0.6				
		iSE	28 20	5		-1.1			
		mN	28 26	8	1.5				
		eLE	40.3	24					
		ME	44 35	18		0.2			
		MZ	45 12	22			1.3		
		MN	45 46	18	0.3				
		F	08 50						
66	" 22	ePZ	09 24 20	6				24°0?	
		e(S?)N	28 32	6					
		eN	29 33	18					
		eLZ	30.9	26					
		MNZ	32 17	20	1.7		1.7		
		ME	32 24	17		0.6			
		F	10 45						
67	" 25	eLZ	23 17.7	20					
		ME	18 25	15		0.1			
		MZ	19 07	16			0.4		
		MN	19 44	15	0.1				
		F	23 35						
68	" 27	eE	08 51 20	7					
		eLZ	55.7	25					
		MZ	56 58	18			0.5		
		F	09 20						

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

Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	μ_0	V_s
N	1	230	9.5	7.1	0.009	4	12.4	12.3	+0.01	343
	3	82	12.5	9.0	0.005					
E	1	231	9.5	6.2	0.008	4	12.8	13.1	+0.04	305
	3	133	9.3	7.0	0.017					
Z	2	60	5.1	5.9	0.011	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
			h. m. s.	s.	mm.	mm.	mm.	km.	
	N.B.	Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin. The amplitudes given are trace amplitudes only. Jeffreys' Tables (R.A.S.Geophys.Suppl.4,No.7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.							
69	1942 Mar. 1	eZ	L0 22 24	8					
		e_Z	42 32	12					On Galitzin Z only.
		eL_Z	47.7	25					
		MZ	56 02	18			0.4		
		F	11 15						
70	" 4	iP_Z	03 42 49	5			+1.5	3270 (29°4)	Condensation.
		eS_{NE}	47 39	10					
		iZ	47 42	10			+1.5		
		mZ	47 59	12			2.2		
		eL_E	50.5	26					
		ME	53 20	16		2.2			
		MN	54 10	18	0.5				
		MZ	54 23	16			5.5		
		F	04 55						
71	" 5	$i(P?)_{NZ}$	19 59 54	8	+0.4		-2.2		Dilatation.
		$e(S?)_{NE}$	20 09 36	8					
		iN	09 45	8	+0.4				
		eL_N	18.5	26					
		MNZ	21 54	20	0.2		0.7		
		ME	23 35	20		0.4			
		F	21 15						
72	" 6	iP_{NZ}	20 13 56	7	-1.0		+3.5	2920 (26°3)	Condensation. H 20 08 22 Heavy microseisms.
		eS_E	18 17	5					
		iS_{NE}	18 24	9	+3.1	-2.3			
		i_Z	18 29	8			+1.5		
		i_E	18 32	12		-3.6			
		i_N	18 39	12	+3.3				
		I_Z	18 43	12			+2.4		
		iSS_E	19 29	8		-2.6			
		e_N	19 36	24					
		mE	19 43	15		3.3			
		eL_N	21.1	17					
		MN_1	22 13	14	3.6				
		MZ_1	23 07	15			7.8		
		ME_1	23 19	12		13.2			
		ME_2	24 09	10		15.7			
		MZ_2	25 07	10			11.8		
		MN_2	25 11	10	5.3				
		F	22 00						

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942			s	mm.	mm.	mm.	km.	
73	Mar.10	iZ	10 37 37	6			+1.5		Earlier phases masked by micro-seisms.
		iEZ	38 05	6		-0.5	+1.5		
		iN	38 15	6	-0.5				
		iN	38 32	10	+0.5				
		iE	38 41	8		-0.8			
		iE	39 05	8		-0.8			
		iN	39 09	8	+0.8				
		iZ	39 41	6			+1.7		
		ME	41 34	10		0.6			
		MZ	42 20	10			3.0		
		MN	42 24	12	0.3				
		F	11 05						
74	" 11	eE	15 23.7						Masked by heavy microseisms.
		eN	24.0						
		eL$_N$	28.6	26					
		ME	31 05	16		0.3			
		MN	32 23	16	0.2				
		MZ	32 44	12			2.0		
		F	15 55						
75	" 12	iN	06 46 51	5	+0.9				Recorded on the Galitzin only.
		MZ	49 26	12			0.8		
		MN	50 17	9	1.7				
		F	06 55						
76	" 12	eE	13 40.0	10					NS readings from Galitzin.
		iN	40 13	10?	+1.0				
		iN	43 51	10	+1.5				
		MN	56 14	16	1.3				
		MZ	56 23	16			1.0		
		ME	56 45	16		0.3			
		F	14 20						
77	" 12	iZ	17 29 23	6			-1.0		All readings from the Galitzin.
		iN	29 45	6	-1.3				
		MZ	33 21	10			0.9		
		MN	33 33	10	1.0				
		F	17 40						
78	" 17	eN	00 19.8	8					
		eL$_N$	22.5	18					
		ME	23 20	12		0.2			
		MN	24 06	12	0.2				
		MZ	24 20	13			0.5		
		F	00 45						
79	" 21	iP$_{NZ}$	23 31 31	8	-0.3		+3.0	7340	Condensation H 21 20 46
		iPPZ	33 49	8			-2.0	(66°0)	
		iZ	34 17	9			+2.5		
		iS$_N$	40 15	8	-0.4				
		iS$_E$	40 17	8		+0.5			
		iN	40 35	8	-0.5				
		iNE	41 34	8	-1.0	-0.6			
		iE	41 55	8		-1.5			
		iN	41 57	8	+1.5				
		e(LQ?)$_N$	47.6	23					
		eE	47.9	23					
		mZ	48.2	18			3.2		
		MN	55 01	24	1.3				
		ME	56 07	24		1.0			
		MZ	56 31	20			5.9		
		F	01 20						
80	" 22	eL$_Z$	01 52.5	25					
		MZ	02 04.7	20			0.5		
		MN	10.0	20	0.1				
		F	02 25						

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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		
	1942		h m s	s	mm.	mm.	mm.	km.	
81	Mar.25	iP_{NEZ}	07 31 54	5	+0.2	-0.4	-2.4		Dilatation NW.
		iPP_{NEZ}	33 34	4	+0.3	-0.4	-1.2		
		e_E	38 07	6					
		$i(S?)_N$	38 11	6	+0.3				
		i_{NE}	38 52	7	+0.2	-0.5			
		e_{NZ}	41 15	12					
		e_E	41 33	7					
		i_N	45 08	6	-0.5				
		e_{NE}	46 03	7					
		eL_N	47.8	14					
		ME	48 56	14		0.3			
		MN	51 16	14	0.2				
		MZ	51 23	15			1.2		
		F	08 35						
82	" 25	e_E	16 51 39						
		eL_N	57.3	15					
		MN	59 31	12	0.2				
		F	17 10						
83	" 26	eL_Z	01 42.1	20					On Galitzin Z only.
		F	01 55						
84	" 26	e_Z	13 25 56	7					
		e_E	30 20	7					
		e_N	30 24	7					
		eL_{NZ}	31.9	22					
		MZ	33 12	18			1.0		
		MN	33 25	15	0.2				
		ME	34 31	10		0.3			
		F	14 20						
85	" 29	e_Z	02 35.7						On Galitzin Z only.
		MZ	39.1	14			0.7		
		F	02 50						
86	" 29	e_Z	05 44.9						Masked by micro-seisms.
		eL_N	48.7	24					
		MZ	52 01	18			1.3		
		MN	52 48	13	0.4				
		ME	53 54	13		0.2			
		F	06 30						
87	" 29	e_N	17 59.0	14					
		e_Z	59.1	14					
		eL_N	18 03.0	22					
		MZ	04 27	20			2.0		
		ME	04 31	16		0.3			
		MN	04 56	17	0.2				
		F	18 45						
88	" 30	eL_Z	10 37.9	24					A few long waves on Galitzin Z only.
		F	10 50						

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

Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	$\mu 2$	V_s
N	1	216	9.5	5.9	0.012	4	12.4	12.3	+0.01	343
	3	70	12.8	11.1	0.004					
E	1	225	9.5	6.7	0.013	4	12.8	13.1	+0.04	305
	3	134	9.3	6.6	0.016					
Z	2	61	5.1	4.9	0.004	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.) h. m. s.	Per s.	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks
	N.B.	Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin. The amplitudes given are trace amplitudes only. Jeffreys' Tables (R.A.S. Geophys. Suppl. 4, No. 7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.							
	1942								
89	Apr. 2	eZ	08 17 44						Masked by micro-seisms.
		eLZ	19.5	24					
		MZ	21 08	16			1.5		
		MN	31 32	15	0.2				
		F	08 45						
90	" 2	eLZ	14 13.4	20					Masked by micro-seisms.
		MZ	14 53	18			0.7		
		F	14 25						
91	" 3	eLZ	23 15.7	20					Masked by micro-seisms.
		F	23 35						
92	" 4	i(P?)Z	22 59 02	8			+1.0		
		i(PP?)E	59 33	5		+0.5			
		iE	23 03 55	6		-0.4			
		eNE	04 06	11					
		eLEZ	05.3	26					
		MN	06 45	20	0.3				
		ME	07 02	20		0.4			
		MZ	07 06	20			2.8		
		F	23 55						
93	" 5	iZ	06 01 39	4			+0.6		
		iN	02 28	4	+0.3				
		iE	02 30	5		-0.6			
		iN	03 33	5	+0.7				
		iZ	03 34	5			+1.5		
		MZ	05 34	11			1.2		
		MN	05 38	11	0.3				
		F	06 15						
94	" 8	iPZ	15 50 05	(4 11			-3.0	6090	Dilatation.
		iPNEZ	50 14	(4 11	-2.0	+1.1	+11.5	(54°8	H 15 40 25
		iE	51 09	5		-1.1			Azimuth N 28¼°W
		i(PcP?)N	51 30	5	+1.0				Approx. Epicentre: 16°N, 127½°E.
		iPPN	52 17	(4 11	-2.0				
		iZ	52 28	11			+8.3		
		iPPPNZ	53 13	10	-2.3		+9.0		
		iS_N	57 42	13	-4.8				
		iS_E	57 45	13		+2.0			
		iZ	57 54	13			-13.0		
		iN	57 57	13	-10.8				
		iE	58 05	13		+14.2			

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per s	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks
	1942								
94	Apr. 8	mN	15 58 11	13	18.3				
Cont.		iN	58 33	13	-6.3				
		iE	59 03	9		-2.0			
		iN	59 22	9	-4.9				
		iScS$_E$	16 00 04	9		-3.1			
		iZ	00 06	9			-6.2		
		iSS$_E$	01 13	15		-3.4			
		iN	02 16	14	-2.5				
		iSSS$_{EZ}$	02 24	18		-3.7	+12.4		
		iE	03 34	16		+7.1			
		iN	03 42	15	-8.0				
		iE	04 00	14		-9.3			
		eL$_E$	05.1	44?					
		eL$_N$	05.5	44					
		ME	10 13	12		11.0			
		MN	11 32	12	15.3				
		MZ	12 02	18			44.0		
		F	19 30						
95	" 8	i?Z	19 39.1						
		eZ	51.8	8					
		iZ	20 00.6	10			+2.0		
		MZ	06.5	14			1.2		
		F	20 45						
96	" 9	eN	00 25 21	11					
		eL$_E$	29.0	19					
		MN	32 29	18	0.1				
		ME	34 55	19		0.1			
		F	00 45						
97	" 9	eZ	04 59 46	10					Masked by micro-seisms.
		eN	05 00 00	5					
		eN	02 27	16					
		eL?E	08.3	16?					
		MN	12 18	16	0.2				
		MZ	12 29	14			0.5		
		ME	16 09	18		0.1			
		F	05 45						
98	" 10	eNZ	11 49.4	6					
		eL$_{NZ}$	57.1	20					
		MZ	59 57	18			0.5		
		ME	12 02 34	15		0.1			
		F	12 30						
99	" 11	eNZ	16 17 28	8					
		eE	19 43	10					
		eL$_Z$	22.0	28					
		eL$_E$	22.5	22					
		eL$_N$	22.9	22					
		MN	25 09	16	0.2				
		ME	25 45	13		0.4			
		MZ	26 46	14			3.3		
		F	17 10						
100	" 13	e(PP?)Z	08 08 31	8					
		e(SS?)E	27.6	15					
		eL$_Z$	49.6	22					
		eL$_N$	53.1	22					
		MZ	57 20	22			1.1		
		ME	57 46	22		0.1			
		MN	59 33	20	0.1				
		F	10 00						
101	" 13	eL$_{EZ}$	10 59.5	28					Early phases obscured by microseisms.
		ME	11 01 10	20		0.2			
		MZ	01 25	20			1.2		
		F	11 35						
102	" 15	eL$_Z$	23 22.2						On Galitzin Z only.
		F	23 35						

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RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

Wiechert Constants Apr.15-30

	V	T_o	ε : 1	r/T_o^2
N	226	9.4	6.0	0.005
E	224	9.5	6.1	0.009

No.	Date	Phase	Time (G.M.T.) h m s	Per s	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks
	1942								
103	Apr.16	i(P?)Z	12 45 18	7			+0.8		Condensation.
		e(S?)N	49 34	8					
		iZ	49 44	10			+0.7		
		eL$_N$	52.2	20					
		MNE	54 27	14	0.1	0.1			
		MZ	59 44	14			0.8		
		F	13 20						
104	" 18	eLZ	01 38.0	20					Preceded by large microseisms.
		F	02 10						
105	" 18	eLZ	18 37.3	20					Preceded by large microseisms.
		MZ	39 51	18			0.5		
		F	18 55						
106	" 19	eLZ	01 46.2	30					
		ME	49 33	18		0.1			
		MZ	49 44	18			0.7		
		F	02 15						
107	" 20	iZ	08 51 00	5			+1.3		Condensation.
		iE	59 37	5		+0.5			NS readings from
		iN	09 01 10	5	+1.2				the Galitzin.
		F	09 25						
108	" 24	eLZ	06 25.9	20					On Galitzin Z only.
		F	06 55						
109	" 24	eLZ	15 24.8	16					" " " "
		F	15 40						
110	" 27	eEZ	13 43.2	7					
		eLE	51.9	17					
		eL$_N$	52.3	17					
		MZ	14 00 22	12			0.6		
111	" 28	eLZ	00 00.6	24					" " " "
		MZ	01 54	22			0.5		
		F	00 10						
112	" 28	iPZ	10 27 30	4			+1.5		Condensation.
		ePNE	27 31	4					
		i(S?)NZ	33 38	4	+0.5		+1.0		
		iE	33 39	4		-1.1			
		eN	36 57	7					
		e(L?)Z	38.5	16					
		MZ	45 16	16			0.7		
		F	11 05						
113	" 29	PNZ	11 46 16	1				2620	H 11 41 09
		iPPZ	46 37	5			+1.5	(23°6)	
		PPPZ	46 55	9			4.0		
		iSN	50 25	8	-1.6				
		iSZ	50 26	8			+2.4		
		mN	50 38	8	2.6				
		iEZ	50 38	8		-2.0	+2.5		
		iSS$_N$	51 03	8	+2.0				
		iZ	51 13	10			-3.3		
		iE	51 21	8		-2.9			
		LZ	53.4	18					
		MZ	54 08	16			2.0		
		MN	55 11	12	1.5				
		F	13 05						
114	" 30	iZ	01 32 02	8			-1.0		Dilatation.
		eZ	36 29						
		eLZ	39.0	24					
		eLNE	39.8	17					
		MN	40 47	16	0.5				
		MZ	40 53	18			2.0		
		ME	42 11	16		0.5			
		F	02 30						

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RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	μ^2	V_s
N	1	219	9.0	5.4	0.016	4	12.4	12.3	+0.01	343
	3	72	12.6	12.5	0.003					
E	1	231	9.3	6.6	0.021	4	12.8	13.1	+0.04	305
	3	134	9.3	5.1	0.014					
Z	2	55	5.1	4.5	0.015	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h. m. s.	s.	mm.	mm.	mm.	km.	
115	May 3	eZ	10 15.2	6					
		eLZ	18.8	20					
		MZ	21 18	18			0.5		
		ME	21 29	17		0.1			
		MN	22 27	16	0.1				
		F	10 55						
116	" 4	eZ	00 36.6						
		eLE	47.8	20					
		ME	51 48	11		0.4			
		MZ	53 05	16			1.0		
		MN	53 24	15	0.2	"			
		F	01 20						
117	" 5	eZ	16 45.3						Shallow waves on Galitzin Z.
		F	17 00						
118	" 9	eZ	15 49 34	10					On Galitzin Z only.
		eLZ	56.8	28					
		F	16 20						
119	" 11	eZ	17 34 42	12					
		eLNE	37.1	20					
		ME	37 45	18		0.3			
		MZ	38 49	22			1.5		
		F	18 15						
120	" 13	eZ	20m55.8	20					On Galitzin Z only.
		eLZ	58.6	25					
		MZ	21 03.4	18			0.7		
		F	21 25						
121	" 14	ePZ	02 29 01	9				13,450	
		iPPZ	33 45	9			-1.5	(121°0)	
		iEZ	34 05	7		+0.8	-4.5		
		eSKSNE	39 22	26					
		eSKKSNE	41 01	20					
		eSN	42 03	26					
		iPSZ	43 49	15			-5.5		
		iPSE	43 52	15		+1.1			
		iSSN	50 32	28	+2.0				
		mNE	51 12	28	2.3	3.2			
		eLQNE	03 04.1	45					
		eLREZ	09.5	32					
		MN	13 10	22	5.0				
		ME	13 31	23		12.2			
		MZ	14 00	20			42.5		
		F	07 15						

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N.B. Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin.
The amplitudes given are trace amplitudes only.
Jeffreys' Tables (R.A.S.Geophys.Suppl.4,No.7) are used for P & S, and the Brunner Depth Chart for deep focus shocks.

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
122	May 14	eL_Z	09 41.5	16					On Galitzin Z only.
		F	10 00						
123	" 15	eLZ	12 53.1	20					" " " "
		MZ	58 22	16			0.6		
		F	13 20						
124	" 17	eLZ	16 12.4	20					" " " "
		MZ	15.2	18			0.5		
		F	16 45						
125	" 20	eLZ	11 34.0	20					" " " "
		MZ	35 32	18			0.3		
		F	Lost in No.126						
126	" 20	eLZ	11 48.5	22					
		MZ	50 08	18			0.5		
		ME	50 40	18		0.1			
		MN	53 30	13	0.1				
		F	12 10						
127	" 20	e(P?)Z	17 11.9	8					
		eLZ	19.0	22					
		MZ	20.3	20			1.4		
		F	18 00						
128	" 21	eLZ	07 14.4	20					
		MZ	15 56	18			0.4		
		F	07 25						
129	" 22	eLZ	18 09.9	20					Preceded by heavy microseisms.
		F	18 15						
130	" 22	eLZ	18 56.4	20					Preceded by heavy microseisms.
		MN	57 22	17	0.2				
		ME	58 13	17		0.2			
		MZ	59 07	16			1.2		
		F	19 20						
131	" 22	eL_N	19 46.5	20					
		ME	47 37	17		0.1			
		MN	48 12	13	0.2				
		F	20 00						
132	" 23	$e?_E$	03 27 05	4					Preceded by heavy microseisms.
		e_E	29 04	6					
		e_N	29 21	10					
		e_N	29 30	10					
		eLZ	32.5	25					
		MZ	34 38	16			1.4		
		MN	35 17	15	0.2				
		ME	35 55	12		0.3			
		F	04 20						
133	" 23	e_N	12 55 14	4					Masked by heavy microseisms.
		eL_E	13 04.1	32					
		MN	06 07	22	0.7				
		ME	06 55	20		3.0			
		MZ	08 20	17			4.5		
		F	14 00						
134	" 24	e_N	03 45 03	4					
		eL_N	58.4	26					
		MN	04 01 42	23	0.3				
		ME	05 07	22		0.2			
		F	04 25						
135	" 26	eZ	07 15 28	5					
		e_N	19 32	10					
		eZ	19 33	10					
		eLZ	22.8	20					
		MZ	25 41	14			0.8		
		F	07 40						

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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		
	1942		h m s	s	mm.	mm.	mm.	km.	
136	May 26	eLZ	13 53.6	26 to					
		F	14 10	36					
137	" 27	i(P?)Z	06 37 21	9			-1.5		Dilatation. Masked by heavy microseisms
		eZ	42.0	26					
		eN	42 26	21					
		eLE	44.0	26					
		ME	47 01	15		1.0			
		MZ	47 21	18			9.0		
		MN	50 04	15	2.2				
		F	08 05						
138	" 28	ePN	01 09 36					4670	H 01 01 56
		$iPNEZ$	09 40	5	+1.0	-0.8	-0.5	(42°0)	Dilatation NW.
		$ipPNE$	10 00	5	+2.0	?			h 100 km.
		iZ	10 03	5			+1.0		Z readings from
		iNE	10 22	5	-5.0	+3.5			Wiechert.
		iN	10 56	7	+1.7				
		iPP_E	11 24	6		+4.0			
		$iPPP_E$	11 56	6		-2.7			
		iN	11 59	6	-4.0				
		iE	12 28	6		-3.9			
		iS_{NE}	15 55	7	-4.5	+23.0			
		mN	16 03	7	11.0				
		isS_{NE}	16 41	8	+5.5	+6.8			
		iSSE	19 07	8		+16.0			
		iN	19 15	9	+18.7				
		mE	19 21	9		29.0			
		F	02 20						
139	" 31	eZ	12 52 46	12					Masked by heavy microseisms.
		eN	56 47	16					
		eZ	56 54	15					
		eLE	13 00.7	20					
		eLN	01.0	28					
		MZ	03 28	16			5.5		
		MN	03 32	15	1.1				
		ME	04 39	14		1.2			
		F	14 05						

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RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	$\frac{\varepsilon}{T_o^2}$		T_1 (Galv.)	T (Pend.)	μ2	V_s
N	1	212	9.2	5.5	0.021	4	12.4	12.3	+0.01	343
	3	61	12.6	17.2	0.003					
E	1	215	9.4	8.2	0.025	4	12.8	13.1	+0.04	305
	3	134	9.3	6.6	0.016					
Z	2	61	5.0	5.4	0.004	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
			h. m. s.	s.				km.	
	N.B.	Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin. The amplitudes given are trace amplitudes only. Jeffreys' Tables (M.N.A.S.Geophys.Suppl.4, No.7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.							
	1942		h m s	s	mm.	mm.	mm.	km.	
140	June 2	eN	01 09 35						
		eLE	14.0	30					
		eLN	14.9	29					
		MN	18 33	33	0.3				
		ME	20 07	16		0.3			
		F	01 45						
141	" 3	iPNE?	16 56 20	3	-0.5	-0.3	0.6	23°ca	h 150-200 km.
		i(pP?)NE	56 58	3	-1.0	-1.0			Z reading from the
		iE	57 07	4		+0.6			Wiechert.
		iN	57 11	4	-0.4				
		i(S?)E	40 27	5		-1.0			
		iNE	40 36	6	+0.7	-0.7			
		i(sS?)N	41 20	7	+0.8				
		E	41 22	7		-0.7			
		MN	44 12	14	0.3				
		F	17 00						
142	" 4	iPZ	07 13 02	6			-1.7		Condensation.
		iPN	13 04	6	-0.4				
		eN	20 25	8					
		iZ	20 31	6			+1.8		
		MZ	24 02	5			3.1		
		ME	24 28	7		2.5			
		MN	25 32	7	2.3				
		F	07 50						
143	" 6	iPNZ	14 59 39	4	+0.5		-1.5		Dilatation.
		iZ	15 04 16	8			+2.0		
		i(S?)N	04 58	5	-1.5				
		iN	05 57	5	+2.2				
		iE	07 05	5		-1.4			
		eLE	09.0	18					
		eLN	09.9	18					
		iE	09 40	5		-1.0			
		iE	11 26	6		-1.7			
		ME	12 34	12		0.5			
		MN	12 49	14	1.0				
		MZ	15 17	14			8.0		
		F	16 15						

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RIVERVIEW COLLEGE OBSERVATORY,
RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No	Date	Phase	Time (G.M.T.)	Per.	Amplitude			A	Remarks
					A_N	A_E	A_Z		
	1942		h m s	s	mm.	mm.	mm.	km.	
144	June 10	iP_Z	10 29 45	4			+1.5		Condensation.
		iZ	30 13	6			-1.5		Looks like more
		eL_N	36.9	20					than one shock.
		eN	40 10	5					2nd shock?
		iZ	40 20	9			+1.3		
		ME	40 37	15		-0.3			M of 1st shock.
		iZ	41 02	10			+2.5		
		iN	41 04	9	+2.5				
		iN	41 24	8	-3.5				
		MN_1	50 14	16	1.4				2nd.shock?
		MZ_1	50 30	16			2.5		
		ME	53 14	16		0.2			NS as well as Z
		MN_2	54 56	17	1.1				readings from the
		MZ_2	56 38	13			2.8		Galitzin.
		F	11 55						
145	" 10	eP_{NZ}	13 54 30	4				2580	
		iP_{NZ}	54 35	4	+0.5		+2.1	(23°2)	
		$iPPP_N$	55 05	4	+0.5				
		iS_{NEZ}	58 36	8	+1.1	-1.0	-2.3		
		eL_Z	59.6	20					
		ME	14 01 29	10		3.2			
		MN	01 40	10	2.2				
		MZ	02 14	12			6.3		
		F	15 10						
146	" 11	eL_Z	15 26.4	20					On Galitzin Z only.
		MZ	29 12	16			0.4		
		F	15 40						
147	" 11	eL_Z	16 25.6	20					" " " "
		MZ	28 17	16			0.5		
		F	16 45						
148	" 11	eL_Z	17 33.5	20					On Galitzin Z and
		MZ	36 05	17			0.7		EW Wiechert only.
		ME	36 15	16		0.1			
		F	17 50						
149	" 12	eL_Z	11 20.5	24					
		MZ	24 27	20			0.4		
		F	12 20						
150	" 13	eZ	05 03.3						Small waves masked
		MZ	04 50	12			0.6		by microseisms.
		F	05 10						
151	" 13	eZ	16 31.5	12					Masked by micro-
		MZ	33 07	16			0.5		seisms.
		F	16 55						
152	" 13	eL_Z	19 31.5	18					Masked by micros.
		MZ	34 15	16			1.1		All readings from
		MN	34 55	12	0.7				the Galitzin.
		F	20 30						
153	" 14	iP_{NZ}	03 18 35	6	-0.2		+2.5	5460	Condensation.
		iS_Z	25 37	8			+1.6	(49°1)	
		iN_Z	25 56	8	+0.8		+1.9		
		$e(L?)_{NE}$	32.1	20					
		eL_Z	33.5	24					
		eL_N	33.6	34					
		ME	35 49	20		0.2			
		MZ	36 57	20			2.3		
		MN	37 03	20	0.4				
		F	04 50						
154	" 14	$e(P?)_Z$	14 38 43	6					
		iN_Z	39 08	6	0.2		+1.3		
		$i(PP?)_Z$	41 06	8			+1.1		
		eNE	49 45	8					
		eZ	49 58	10					
		eL_Z	57.8	18					
		MZ	15 03 18	18			1.0		
		F	15 35						

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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		
	1942		h m s	s	mm.	mm.	mm.	km.	
144	June 10	iP_Z	10 29 45	4			+1.5		Condensation.
		iZ	30 13	6			-1.5		Looks like more
		eL_N	36.9	20					than one shock.
		eN	40 10	5	-----	-----	-----	-----	
		iZ	40 20	9	-----	-----	+1.3	-----	2nd shock?
		ME	40 37	15	-----	-0.3	-----	-----	M of 1st shock.
		iZ	41 02	10			+2.5	-----	
		iN	41 04	9	+2.5				
		iN	41 24	8	-3.5				
		MN_1	50 14	16	1.4				2nd.shock?
		MZ_1	50 30	16			2.5		
		ME	53 14	16		0.2			NS as well as Z
		MN_2	54 56	17	1.1				readings from the
		MZ_2	56 38	13			2.8	-----	Galitzin.
		F	11 55						
145	" 10	eP_{NZ}	13 54 30	4				2580	
		iP_{NZ}	54 35	4	+0.5		+2.1	(23°2)	
		$iPPP_N$	55 05	4	+0.5				
		iS_{NEZ}	58 36	8	+1.1	-1.0	-2.3		
		eL_Z	59.6	20					
		ME	14 01 29	10		3.2			
		MN	01 40	10	2.2				
		MZ	02 14	12			6.3		
		F	15 10						
146	" 11	eL_Z	15 26.4	20					On Galitzin Z only.
		MZ	29 12	16			0.4		
		F	15 40						
147	" 11	eL_Z	16 25.6	20					" " " "
		MZ	28 17	16			0.5		
		F	16 45						
148	" 11	eL_Z	17 33.5	20					On Galitzin Z and
		MZ	36 05	17			0.7		EW Wiechert only.
		ME	36 15	16		0.1			
		F	17 50						
149	" 12	eL_Z	11 20.5	24					
		MZ	24 27	20			0.4		
		F	12 20						
150	" 13	eZ	05 03.3						Small waves masked
		MZ	04 50	12			0.6		by microseisms.
		F	05 10						
151	" 13	eZ	16 31.5	12					Masked by micro-
		MZ	33 07	16			0.5		seisms.
		F	16 55						
152	" 13	eL_Z	19 31.5	18					Masked by micros.
		MZ	34 15	16			1.1		All readings from
		MN	34 55	12	0.7				the Galitzin.
		F	20 30						
153	" 14	iP_{NZ}	03 18 35	6	-0.2		+2.5	5460	Condensation.
		iS_Z	25 37	8			+1.6	(49°1)	
		iN_Z	25 56	8	+0.8		+1.9		
		$e(L?)_{NE}$	32.1	20					
		eL_Z	33.5	24					
		eL_N	33.6	34					
		ME	35 49	20		0.2			
		MZ	36 57	20			2.3		
		MN	37 03	20	0.4				
		F	04 50						
154	" 14	$e(P?)_Z$	14 38 43	6					
		iN_Z	39 08	6	0.2		+1.3		
		$i(PP?)_Z$	41 06	8			+1.1		
		eNE	49 45	8					
		eZ	49 58	10					
		eL_Z	57.8	18					
		MZ	15 03 18	18			1.0		
		F	15 35						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

Wiechert Constants June 15-30

	V	T_o	ξ:1	r/T_o^2
N	219	9.6	6.3	0.007
E	236	9.3	6.7	0.005

No.	Date	Phase	Time (G.M.T.) h m s	Per. s	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks.
	1941								
155	June 15	iP_Z	13 51 47	4			-1.0		Dilatation.
		$i(pP?)_Z$	53 59	8			-1.5		Deep focus.
		i_E	54 01	6		+0.7			
		iS_{NE}	55 29	6	-0.4	+1.3			
		i_N	58 01	7	+0.4				
		MN	14 01 25	11	0.2				
		MZ	02 12	13			0.4		
		F	14 10						
156	" 16	eZ	22 03.6						
		eL_Z	05.5	20					On Galitzin Z only.
		MZ	10 10	18			0.5		
		F	22 35						
157	" 17	eZ	16 02 35	10					Masked by micro-
		MZ	05 43	14			1.0		seisms.
		MN	07 05	12	0.3				
		F	16 25						
158	" 17	$e?_Z$	23 09.6						Masked by micro-
		MZ	18 01	16			0.5		seisms.
		F	23 30						
159	" 18	iP_{NZ}	09 39 09	8	-0.4		+2.5	4970	Condensation.
		eE	39 23	5				(44°7)	H 09 30 57
		iPP_{NZ}	40 52	8	-1.6		+4.0		
		$i(PcP?)_N$	41 00	8	-2.3				
		mZ	41 03	8			7.5		
		$i(PcS?)_{NZ}$	44 51	7	+0.8		+3.0		
		iS_N	45 43	10	+1.5				
		iE	45 49	10		+1.7			
		m_N	45 56	10	4.7				
		iE	49 04	18		+2.5			
		eLQ_E	50.3	38					
		eL_N	51.3	20					
		eLR_Z	52.5	32					
		ME	52 31	22		8.0			
		MZ	55 41	22			23.2		
		MN	56 12	20	10.2				
		F	12 35						
160	" 19	eL_Z	20 15.3	24					Masked by micro-
		MZ	20.7	20			0.4		seisms.
		F	20 30						
161	" 20	eZ	03 25.0						Masked by micro-
		MZ	27.8	16			0.5		seisms.
		F	03 40						
162	" 20	eL_Z	10 56.9	24					A few long waves
		F	11 05						masked by micros.
163	" 24	iZ	09 19 08	7			+1.0		
		eL_N	24.3	24					
		eL_{EZ}	24.5	24					
		ME	25 44	16		0.3			
		MZ	26 05	18			2.0		
		MN	27 59	14	0.3				
		F	09 10						

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks.
	1942		h m s	s	mm.	mm.	mm.	km.	
164	June 24	iPZ	11 21 07	4			+5.0	2300	Condensation.
				10				(20°7)	H 11 16 27
		ePNE	21 07	4					
		i_{NE}	21 19	6	-2.2	+6.1			
		iPPNEZ	21 27	10	+4.1	-10.5	+16.0		
		iS_N	25 00	18	+10.0				
		iPcPE	25 05	16		+11.5			
		iZ	25 09	14			-35.5		
		iSSNE	25 28	20	-31.0	-18.5			
		iLE	26 36	22					
		MN	27 14	20	50.0				
		ME	27 38	16		46.0			
		MZ	27.8	19			94.0		
		F	14 45						
165	" 26	eLZ	10 44.0	20					Small and masked
		MZ	48 22	14			0.7		by microseisms.
		F	10 55						
166	" 26	eZ	20 04.8						Small and masked
		MZ	09 00	14			0.5		by microseisms.
		F	20 15						
167	" 28	eZ	04 15.4						Small and masked
		MZ	19 21	12			0.6		by microseisms.
		F	04 30						
168	" 28	eZ	15 21.9						Preliminaries ob-
		eLZ	26.1	20					scured by micro-
		MZ	28 15	18			1.2		seisms.
		F	16 05						
169	" 29	eZ	06 55.7						Small and masked
		F	07 15						by microseisms.
170	" 29	eLZ	09 09.6	24					
		MZ	11 32	16			0.5		
		F	09 20						
171	" 30	iP?E	05 06 08	4		+0.4			May be only a large
		e(S?)NE	10 00	7	0.4	0.4			microseism.
		eLN	12.2	17					
		MN	12 54	16	0.3				
		ME	13 35	15		0.1			
		F	05 25						
172	" 30	eZ	09 22 14						Masked by micro-
		eE	23 59						seisms.
		eZ	24 18	14					
		MZ	26 35	14			0.5		
		MN	27 00	14	0.1				
		F	09 50						

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ADDENDUM to No.139, May 31, 1942.

Superimposed on the surface waves of this earthquake are a series of short-period vibrations commencing at 13h 03m 19s. The periods are about 0.9 seconds and the maximum earth motion is 3μ. These vibrations were recorded on the three Wiechert and two Mainka components, but not on the Galitzins. They were evidently caused by under-water explosions during the Japanese submarine raid on Sydney Harbour.

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

Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	μ_2	V_s
N	1	225	9.4	5.2	0.008	4	12.4	12.3	+0.01	343
	3	131	9.5	5.3	0.008					
E	1	224	9.5	6.1	0.015	4	12.8	13.1	+0.04	305
	3	132	9.1	6.6	0.017					
Z	2	60	5.0	4.8	0.004	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h. m. s.	s.	mm.	mm.	mm.	km.	
173	July 3	eN	03 26.0						
		eN	34.4	20					
		e(L?)N	37.3	28					
		eLZ	43.1	30					
		MZ_1	45 31	24			0.5		
		MN	48 56	19	0.2				
		MZ_2	52 22	18			0.9		
		ME	54 08	18		0.2			
		F	04 20						
174	" 7	iP_{NEZ}	02 59 27	3	+0.2	+1.1	-3.9	30°	Dilatation.
		i(pP?)Z	3 00 49	3			+1.5		H 02 53 56
		iS_{NE}	03 53	3&0	-2.4	+3.1			h 500 km.
		iE	05 04	3		+1.3			Azimuth N.82°E.
		iSZ	06 22	10			+3.0		(approx.)
		eE	06 22	10					Some evidence of
		i(SS?)NE	06 29	8	-2.8	-3.0			surface waves of an
		iZ	06 41	10			-9.0		earlier shock on
		F	04 10						Galitz.Z from 03h
									01.4m to 03h 02.7m.
175	" 8	eP?Z	07 10 01	6				105°?	Perhaps only a large
		eZ	10 18	10					microseism.
		eZ	14 50	20					
		$iSKS_N$	20 50	8	+2.2				iSKS and iSKKS from
		$iSKKS_N$	21 45	8	+1.8				Galitzin N.
		e(PS?)Z	23 50	12					
		iZ	24 02	8			+1.5		
		eNE	24 11	20					
		eSS_{NE}	30.0	18					
		eL_N	42.0	30					
		eL_E	42.2	30					
		MNEZ	47.8	24	0.3	0.2	2.5		
		F	09 50						
176	" 8	eZ	23 35.5	18					A few long waves.
		F	23 45						
177	" 9	eLZ	19 13.5	24					" " " "
		F	19 25						
178	" 11	eN	12 20 41	6					Masked by very
		MZ	23 53						heavy microseisms.
179	" 12	eLZ	06 01.6	32					Masked by heavy
		MNE	05.5	20	0.2	0.3			microseisms.
		MZ	05 57	22			3.0		
180	" 12	eLZ	08 50.1	16					A few long waves.
		F	09 00						

(Concluded on next sheet)

N.B. Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin.
The amplitudes given are trace amplitudes only.

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		
	1942		h m s	s	mm.	mm.	mm.	km.	
181	July 13	i_Z	00 15 51	5			+1.0		Condensation.
		i_Z	17 41	5			+1.7		
		e_E	25 52	12		0.2			
		eL_N	35.7	18					
		ME	36 29	20		0.2			
		MZ	36 59	20			1.7		
		F	01 00						
182	" 20	e_E	15 44.5	9					
		eL_Z	46.9	22					
		ME	49 00	15		0.1	0.		
		MZ	49 03	18			0.9		
		F	16 10						
183	" 21	eL_E	12 42.7	15					
		MZ	45 11	12			0.9		
		F	13 00						
184	" 22	e_Z	02 39.3						Shallow waves.
		F	03 20						
185	" 24	i_{NE}	23 54 24	5	+0.4	+0.5			
		i_Z	54 26	4			+0.7		
		i_N	56 45	6	+0.7				
		i_E	56 48	6		-1.0			
		i_Z	58 28	5			+1.5		
		i_{NE}	58 58	5	-1.2	+1.1			
		i_Z	59 28	5			+2.5		
		i_{NE}	59 34	5	+2.5	+2.0			
		i_E	00 00 22	8		+1.8			
		i_N	00 43	6	+2.8				
		i_E	01 14	8		+2.6			
		MZ	04 36	10			2.8		
		F	00 30						
186	" 25	$e(P?)_Z$	06 31 38	8				51°?	
		i_Z	31 55	8			+1.8		
		eS_N	38 52	9	0.4				
		iS_E	38 55	7		+2.3			
		i_Z	38 58	8			-2.2		
		ePS_{NE}	39 21	12					
		eL_N	44.7	20					
		MN	49 46	15	0.4				
		MZ	52 25	15			3.2		
		ME	53 06	12		0.4			
		F	07 55						
187	" 28	e_Z	04 59.8						A few small waves masked by micros.
		F	05 05						
188	" 29	$iPNZ$	22 56 33	6	+0.7		-2.2	4220	Dilatation.
		iP_E	56 34	6		-0.5		(38°0)	Probably North-west
		i_Z	57 24	6			+2.8		New Guinea.
		$i(PP?)_Z$	58 03	8			+5.6		
		i_{NE}	58 08	8	+3.6	-3.7			
		i_N	23 01 24	10	-1.5				
		iS_E	02 23	13		-2.5			
		$i(PcS?)_E$	02 40	13		+6.6			
		i_N	02 46	15	+3.0				
		iSS_Z	05 10	12			+10.0		
		SSS_{NZ}	05 42	15	4.2		10.5		
		? E	06 00	12		5.6			
		$i(ScS?)_N$	06 31	9	+7.0				
		eL_N	07.6	22					
		ME_1	09 56	20		13.0			
		MN_1	10 10	17	14.5				
		ME_2	12 08	12		15.3			
		MN_2	13 28	16	12.7				
		MZ	14 25	18			29.2		
		MNE_4	17 52	14	13.7	18.1			
		ME_5	19 46	13		21.4			
		F	01 00						

D.J.K.O'CONNELL S.J.
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Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	c:1	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	$\mu 2$	V_s
N	1	224	9.3	5.1	0.005	4	12.4	12.3	+0.01	343
	3	137	9.6	4.5	0.012					
E	1	231	9.4	6.5	0.012	4	12.8	13.1	+0.04	305
	3	141	9.4	5.6	0.008					
Z	2	58	5.1	4.9	0.004	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
			h. m. s.	s.				km.	
	N.B.	Unless stated otherwise NS & EW readings are from the Wiechert, Z from the Galitzin. The amplitudes given are trace amplitudes only. Jeffreys' Tables (R.A.S. Geophys. Suppl. 4, No. 7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.							
	1942		h m s	s	mm.	mm.	mm.	km.	
189	Aug. 1	iPNEZ	04 52 45	5	+0.?	-0.5	+1.5	20°4?	Condensation.
		iZ	53 00	6			-1.0		h 80 km. ca.
		iN	53 09	6	-1.0				NS readings from
		eN	56 18	6					the Galitzin.
		iS_N	56 26	6	-2.7				
		iE	56 28	6		-1.0			
		iZ	56 30	8			-2.4		
		iN	56 41	8	+2.3				
		iE	56 42	8		+0.5			
		isS_Z	56 55	8			-2.0		
		eL_Z	58.1	24					
		ME	59 20	18		0.3			
		MZ	59 25	20			2.2		
		F	05 55						
190	" 1	iP_Z	12 38 45	6			-3.0	21°	Dilatation.
		iP_{NEZ}	38 47	6	+1.5	-3.9	+1.5		H 12 34 06
		ipP_{NE}	39 01	6	+4.0	-8.5			h 75 km. ca.
		iNE	39 16	6	+5.4	+7.5			
		iZ	39 18	6			-15.8		Very similar record
		iN_{EZ}	39 27	6	-5.0		+14.5		to No. 189
		iS_{NZ}	42 36	8	+7.8		+8.1		
		iS_E	42 39	8		+20.7			
		iZ	42 47	9					
		mE	42 48	8		37.7			
		isS_N	42 57	8	+33.0				
		mE	43 06	8		27.0			
		iE	43 30	8		-18.0			
		eL_Z	43.9	24					
		eL_E	44.0	24					
		MN	44 50	16	16.5				
		ME	44 54	18		16.3			
		MZ	45 21	18			48.5		
		F	Lost in No. 191						
191	" 1	iP_Z	14 37 46	6			+1.0	4680 (42°1)	Condensation.
		eP_E	37 48	6					
		iN_Z	37 51	6	+0.3		+1.8		
		iPP_Z	39 23	9			+2.2		
		eS_{NE}	44 01	10					
		iS_{NE}	44 05	10	-1.0	-4.5			
		iZ	44 08	7			+3.0		
		iSS_N	47 01	14	+0.8				

(Continued on next sheet)

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		
	1942		h m s	s	mm.	mm.	mm.	km.	
191 cont.	Aug. 1	iZ	14 47 07	15			-2.4		
		$eLQ?_{NE}$	47.7	28					
		eLR_Z	49.4	32					
		eLR_{NE}	49.7	28					
		ME	51 30	18		6.5			
		MZ	51 45	20			21.0		
		MN	52 17	16	6.3				
		F	17 30						
192	" 3	eZ	18 57.7	8					Small waves masked by microseisms on Galitzin Z. Dilatation.
		eLZ	19 00.3	20					
		F	19 10						
193	" 3	iZ	20 15 32	5			-1.3		
		iZ	15 53	5			+1.5		
		iE	15 57	5		+0.5			
		eZ	18 53	9					
		MN	21 49	13					
		iNE	25 25	5	+1.0	-1.3			
		MZ	25 28	15			1.2		
		F	21 05						
194	" 6	eZ	18 18.7						
		MZ	26 27	16			0.3		
		F	18 45						
195	" 6	iPKPZ	23 55 57	5			+1.0	13450 (121°)	H 23 37 04
		iPPZ	57 15	5&28			-4.5		
		ePP_E	57 15	5&28					
		$iSKS_E$	00 03 00	14		-1.6			
		eE	04 24	13					
		$iSKKS_E$	04 30	13		-2.0			
		iPS_E	07 20	20		+3.7			
		iPS_Z	07 23	20			+10.8		
		$iPPS_Z$	08 29	20			+4.6		
		$iPPS_E$	08 37	20		+2.5			
		mEZ	08 56	22		3.7	10.0		
		iSSZ	14 01	26			+3.5		
		eSSE	14 07	32					
		mE	14 44	32		3.6			
		eE	17 17	40					
		$iSSS_N$	17 30	20	-1.0				
		SSSE	18 19	40		1.8			
		eN	21.7	36					
		eLQ_N	26.0	40					
		ME_1	33 19	30		9.3			
		MZ_1	33 26	30			25.2		
		MN_1	33 42	24	2.1				
		MN2	39 41	18	3.0				
		MZ_2	41 37	18			19.8		
		ME_2	41 51	18		6.3			
		F	04 55						
196	" 8	eLZ	23 32.4	24					On Galitzin Z only.
		MZ	38 47	18			0.2		
		F	00 10						
197	" 13	iP_{NZ}	15 50 19	5	+0.7		-2.0	2920 (26°3)	Dilatation. H 15 44 44
		iP_E	50 21	5		-0.5			
		iPP_N	50 53	6	+1.0				
		iPP_{EZ}	50 55	6		-0.5	+2.0		
		iPP_E	51 10	5		-0.9			
		eZ	54 41	9					
		eS_E	54 47	8		0.7			
		eN	54 51	12	1.0				
		iEZ	55 01	9		+1.0	+2.8		
		iN	55 08	12	+2.7				
		SSZ	55 51	12			3.5		
		eLN	57.8	24					
		MZ_1	59 14	13			6.0		
		ME	16 00 24	11		8.5			
		MZ_2	01 11	12			9.0		F 17h 20m

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RIVERVIEW COLLEGE OBSERVATORY,
RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
198	Aug.14	i_{NZ}	08 20 51	4	-0.3		+1.0		
		i_E	25 47	5		+0.8			
		e_N	28 16	5					
		i_Z	28 19	8			+1.0		
		i_E	30 30	4		-0.6			
		i_E	32 14	4		-0.7			
		m_N	33 13	5	1.6				
		m_N	34 30	5	1.9				
		eL_N	35.6	13					
		MN	37 08	12					
		MZ	37 17	14			2.8		
		F	09 10						
199	" 15	i_Z	15 09 30	6			+1.0		Heavy microseisms.
		e_N	13 57						
		i_E	16 10	6		-0.5			
		e_N	16 13	6					
		i_Z	16 42	8			+1.5		
		i_{NE}	17 15	8	-1.0	+0.8			
		eL_Z	18.6	28					
		eL_N	18.7	22					
		ME	22 57	12		3.2			
		MZ	23 02	16			4.7		
		MN	24 45	13	1.6				
		F	16 30						
200	" 16	i_Z	11 30 04	4			+1.8		Heavy microseisms present. NS readings from the Mainka.
		i_N	33 51	6	+0.5				
		i_Z	33 52	6			-2.1		
		i_{NZ}	36 55	6	+0.5		1.6		
		F	11 55						
201	" 17	$e?_Z$	05 37.7	6					Large microseisms.
		eL_Z	43.9	39					
		MZ	45 52	16			0.8		
		F	05 55						
202	" 19	e_N	06 05.0	5					
		eL_Z	07.8	20					
		MN	08 43	14	0.2				
		ME	09 15	14		0.1			
		MZ	09 22	16			0.5		
		F	06 25						
203	" 21	e_E	12 12 43	6					
		e_N	13 46	6					
		i_E	14 35	7		-2.5			
		i_Z	14 40	6			+2.3		
		MN	15 33	9	2.0				
		ME	17 18	8		2.7			
		MZ	19 10	8			3.5		
		F	12 35						
204	" 23	i_Z	06 48 06	6			-1.2		
		eL_Z	07 19.1	24					
		eL_N	20.8	25					
		MZ	23 41	18			1.0		
		ME	26 29	18		0.2			
		MN	26 37	16	0.3				
		F	08 10						

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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		
	1942		h m s	s	mm.	mm.	mm.	km.	
205	Aug.24	eP_Z	23 05 53					12780	
		$ePKP_Z$	09 30	11			1.0	(115°)	
		$iPPP_{NEZ}$	10 32	18	-1.1	+0.7	+6.0		
		SKP_Z	12 14	13			2.8		
		$ePPP_{NE}$	13 06	18?					
		$iSKS_{NE}$	16 19	18	-1.3	+1.2			
		$eSKKS_{NE}$	17 33	14					
		iS_N	18 27	14	+2.0				
		iPS_Z	19 51	20			+5.2		
		iPS_{NE}	20 00	23	-4.8	+6.2			
		$mNEZ$	20 25	23	6.7	9.0	13.7		
		iZ	21 23	23?			+15.3		
		$e(SS?)E$	26.0	36					
		iSS_{NE}	26 32	25	-10.0	+8.7			
		iSS_Z	26 39	25			+13.0		
		mNE	26 56	25	11.1	21.2			
		mZ	27 13	25			16.4		
		$iSSS_E$	30 43	18		+5.5			
		eLQ_N	37.6	38					
		eLQ_E	38.1	31					
		eLR_E	43.6	29					
		eLR_N	43.7	34					
		MZ_1	44 40	28			30±		
		ME_1	47 46	18		14.0			
		MN_1	49 34	18	14.3				
		MN_2	55 15	16	20.3				
		MZ_2	55 21	16			70±		
		ME_2	55 49	16		23.1			
		F	04 15						
206	" 25	eL_Z	21 13.4	20					Earlier phases masked by microseisms.
		MZ	16 32	17			0.5		
		F	22 00						
207	" 29	iZ	01 44 15	5			+2.1		Masked by heavy microseisms.
		iZ	46 49	5			-2.4		
		iN	48 07	5	+0.7				
		iE	48 09	5		+0.8			
		iEZ	54 05	6		-1.1	+1.3		
		F	02 15						
208	" 31	eL_Z	20 28.0	24					Earlier phases masked by microseisms.
		MZ	31 01	17			1.0		
		F	20 40						

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RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 8′ 30″ E. h = 25 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	c:1	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	μ_2	V_s
N	1	224	9.5	5.1	0.004	4	12.4	12.3	+0.01	343
	3	138	9.6	4.7	0.012					
E	1	239	9.5	7.3	0.003	4	12.8	13.1	+0.04	305
	3	135	9.6	5.6	0.007					
Z	2	55	5.2	6.8	0.007	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
			h. m. s.	s.				km.	
	N.B.	Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin. The amplitudes given are trace amplitudes only. Jeffreys' Tables (R.A.S. Geophys. Suppl. 4, No. 7) are used for P & S, and the Brunner Depth Chart for deep focus shocks.							
	1942		h m s	s	mm.	mm.	mm.	km.	
209	Sept. 5	e_N	21 38 26	4					
		e_E	44 16	15					
		eL_N	45.4	20?					
		F	21 50						
210	" 10	e_{NE}	05 02.4	6					Phases before eL are from the Mainka.
		e_{NE}	05 45	6					
		eL_E	12.0	18					
		eL_N	15.2	22					
		M_E	16 12	18		0.3			
		M_N	16 27	16	0.3				
		F	05 25						
211	" 11	e_E	01 57.4						
		M_E	03 00 10	7		0.1			
		M_N	00 35	7	0.1				
		F	02 05						
212	" 14	iP_{NEZ}	11 35 46	4	-0.4	-0.8	+	21°	h 120 km. ca.
		iZ	35 57	?					
		ipP_{NEZ}	36 08	5	-0.6	-3.0			
		iZ	36 29	10					
		iS_{NE}	39 37	4	-1.8	-3.5			
		iZ	39 39	10			+9.5		
		i_N	39 40	9	-12.8				
		i_E	39 43	9		+14.2			
		i_N	39 57	9	-7.5				
		$i(sS?)_E$	40 22	7		+4.3			
		e_N	40 26	18					
		iZ	40 29	10			+7.5		
		i_N	46 58	5	-3.1				
		F	12 35						
213	" 14	e_N	19 04 59	4					
		i_E	05 15	3		-0.7			
		i_N	05 55	6	+0.2				
		eL_N	07.8	17					
		M_N	08 21	12	0.3				F 19h 15m
214	" 15	e_E	23 45.0	7					
		e_N	48.3	20					
		e_Z	48 34	16					
		m_N	48 51	18	0.2				
		eL_Z	52.1	25					
		M_E	54 09	18		0.9			F 00h 45m
		M_Z	54 29	18			4.0		

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RIVERVIEW COLLEGE OBSERVATORY,
RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
215	Sept.17	e?E	20 06.4	7					
		e_E	06 45	8					
		e_N	11.0	8					
		eL_Z	11.8	20					
		MZ	13 08	20			0.9		
		ME	13 38	18					
		MN	14 07	14	0.5				
		F	20 40						
216	" 20	eE	23 48 20	6					Large microseisms.
		MNE	53 52	10	0.7	0.7			
		F	00 15						
217	" 22	e?Z	01 08.5	6					Large microseisms present. EW readings from the Mainka.
		e?N	08.6	8					
		eE	10 28	9					
		eZ	10 36	10					
		eN	15 03	8					
		eZ	15 16	8					
		eE	15 28	10					
		eL_Z	25.3	28					
		eL_E	27.1	24					
		MZ	27 24	22			1.3		
		MN	29 18	18	0.4				
		ME	35 01	18		0.2			
		F	02 25						
218	" 23	eL_N	21 27.0	20					
		eL_Z	27.4	20					
		F	22 00						
219	" 24	eZ	03 49 57	6					
		iNE	58 12		-0.7	+0.5			
		iZ	58 17	12			+1.5		
		eZ	04 08.3	15					
		eL_{NZ}	12.1	20					
		MZ	14 49	20			0.9		
		MN	16 22	18	0.5				
		ME	17 00	19		0.5			
		F	04 50						
220	" 25	eNE	08 34.0	5					
		eE	36.17	11					
		eN	36 27	6					
		ME	37 00	12		0.3			
		MN	37 07	16	0.5				
		MZ	37 19	16			1.1		
		F	09 00						
221	" 26	eZ	04 21 06	10					
		eZ	30 50	10					
		eL_{EZ}	57.3	26					
		MZ	05 03 25	20			0.5		
		MN	03 54	20	0.2				
		ME	08 12	18		0.2			
		F	06 00						
222	" 27	e(P?)Z	13 25 28	8				83°?	
		e(S?)N	35 52	14					
		eE	36 07						
		eN	37 12	18					
		eZ	37 16	14					
		e(SS?)Z	41 32	18					
		eL_Z	52.6	26					
		MZ	55 48	20			2.4		
		MNE	56 04	20	0.4	0.4			
		F	14 55						
223	" 28	eL_Z	16 53.0	20					
		MZ	56 08	16			0.5		
		ME	57 56	11		0.2			
		MN	58 26	11	0.2				
		F	17 15						

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Director.

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RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	$\mu 2$	V_s
N	1					4	12.4	12.3	+0.01	343
	3	132	9.7	5.2	0.011					
E	1					4	12.5	12.7	-0.08	584
	3	135	9.6	5.2	0.009					
Z	2	60	5.1	5.1	0.015	4	12.1	12.0	+0.04	259

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
			h. m. s.	s.				km.	
	N.B.	Unless otherwise stated NS & EW readings are from the Wiechert, Z from the Galitzin. The amplitudes given are trace amplitudes only. Jeffreys' Tables (R.A.S.Geophys.Suppl.4, No.7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.							
	1942		h m s	s	mm.	mm.	mm.	km.	
224	Oct. 6	ePZ	11 56 06	3				3070 (27°6)	Z readings from the Wiechert, NS from the Galitzin and EW from the Mainka.
		i_N	56 26	5	+1.0				
		$iPPP_N$	57 00	5	-1.7				
		iS_N	12 00 43	7	-2.1				
		iS_E	00 45	5		+0.2			
		i_N	01 00	5	-2.0				
		iSS_N	01 49	6	-3.8				
		i_E	02 47	6		-0.7			
		eL_N	04.0	25					
		ME	05 24	16		0.7			
		MN	06 31	14	3.0				
		F	12 40						
225	" 6	iP_{EZ}	14 20 55	3		-0.4	-0.3	2500 (22°5)	Dilatation. Z readings from the Wiechert, NS from the Galitzin and EW from the Mainka.
		iS_E	24 55	6		-0.9			
		i_N	24 57	6	+1.5				
		i_E	25 09	6		-2.0			
		i_N	26 17	12	+2.5				
		i_E	26 34	7		-0.8			
		ME	30 19	13		0.3			
		F	15 00						
226	" 8	iP_{NZ}	20 08 10	6	+1.0		-1.7	2950 (26°5)	Dilatation. All readings from the Galitzin.
		iP_E	08 11	6		-1.0			
		eS_N	12 40	10					
		iS_E	12 41	10		-1.3			
		ME	18 40	16		2.5			
		MZ	19 39	16			2.5		
		MN	20 32	14	1.3				
		F	21 15						
227	" 9	$e(P?)_E$	16 13 49	12					All readings from EW and Z Galitzin.
		eZ	13 57	12					
		$e(S?)_E$	23.2	16?					
		eL_{EZ}	37.1	26					
		ME	42 17	20		2.8			
		MZ	45 16	18			1.8		
		F	17 45						
228	" 11	eE	01 04 55						EW and Z readings from Galitzin, NS from Mainka.
		iE	07 44	7		+1.5			
		iN	07 48	5	-0.4				
		MEZ	11 02	14		2.7	1.8		
		F	01 30						

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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		
	1942		h m s	s	mm.	mm.	mm.	km.	
229	Oct.20	eP_E	23 30 41	5				4650	H 23 21 53
		$iPNEZ$	30 52	7	-0.8	+0.7	+0.6	(50°8)	Condensation SE.
		$iNEZ$	30 59	7	+2.5	-2.0	-1.3		eP from Galitzin E,
		iE	32 54	7		-1.6			other EW & NS read-
		iN	33 04	12	-1.8				ings from Mainka,
		iE	33 09	7		-2.7			Z from Wiechert.
		iE	35 25	7		-1.5			
		iN	36 19	12	-1.5				
		iE	36 21	7		+1.8			
		iS_N	38 04	17	-3.3				
		iE	38 13	11		-5.0			
		mE	38 28	14		7.3			
		mN	38 30	17	7.1				
		mE	38 43	14		6.4			
		mN	38 49	17	7.5				
		iE	40 31	12		-3.4			
		iN	42 09	12	+9.3				
		iN	42 51	12	+8.0				
		eL_N	44.2	48					
		ME	47 35	19		7.4			
		MN	49 33	18	5.2				
		F	02 25						
230	" 20	eL_E	17 13.5	26					Readings from
		ME	20 05	18		0.1			EW Mainka.
		F	17 50						
231	" 24	eL_E	03 13.2	18					Readings from
		ME	17 15	10		0.3			Mainka.
		MN	18 21	10	0.2				
		F	03 40						
232	" 25	eE	09 04.0	8					Readings from
		eL_E	08.4	22					Mainka.
		ME	12 33	20		0.1			
		MN	12 40	18	0.1				
		F	09 30						
233	" 26	eP_Z	21 21 19					8910	Z readings from
		iP_N	21 30	5	+0.2			(80°2)	Wiechert, NS & EW
		iS_{NE}	31 20	7	-0.7	-1.0			from Mainka.
		iPS_E	31 44	8		-1.6			
		eLQ_E	42.8	36					
		eLR_N	48.8	28					
		ME	22 01 37	15		0.1			
		MN	01 47	15	0.1				
		F	22 45						
234	" 28	eE	11 14 31						From EW Galitzin.
		eL_E	38.7	30					
		ME	42 25	18					
		F	12 15						
235	" 28	eE	15 37 54	6					From EW Galitzin.
		eL_E	46.4	26					
		ME	48 27	18					
		F	16 05						
236	" 31	eL_E	07 37.0	18					From EW Galitzin.
		ME	39 41	16					
		F	07 55						
237	" 31	eE	11 32 24	7					From EW Galitzin.
		ME	35 56	16					
		F	11 55						

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RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	c:1	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend.)	μ2	V_s
N	1	223	8.3	4.3	0.009	4	12.9	12.8	+0.01	453
	3	153	9.5	10.0	0.026					
E	1	233	8.0	4.6	0.005	4	12.5	12.7	-0.08	490
	3	131	9.7	8.9	0.011					
Z	2	59	5.1	5.0	0.011	4	12.0	12.1	-0.03	400

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	N.B.		h. m. s.	s.				km.	
	N.B.	The Amplitudes given are trace amplitudes only. Jeffreys' Tables (R.A.S.Geophys.Suppl.4, No.7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.							
	1942		h m s	s	mm.	mm.	mm.	km.	
238	Nov. 1	eE	08 02 14	7					From EW Galitzin.
		ME	15 09	14		1.0			
		F	08 30						
239	" 1	eE	09 50.8	8					A few small waves on EW Galitzin.
		ME	52 50	11		0.5			
		F	09 55						
240	" 1	eE	10 18.9	8					From EW Galitzin.
		eLE	27.8	16					
		ME	31 44	12		1.0			
		F	10 45						
241	" 2	eE	02 06.6	10					From Galitzin.
		F	02 20						
242	" 2	eE	22 54.7						From Galitzin.
		i?E	55 28						
		ME	58 50	16					
		F	23 15						
243	" 3	eE	00 06 31	8					NS readings from Mainka, EW from Galitzin.
		iE	06 41	6		+2.0			
		eLE	13.8	27					
		MN	18 01	12	2.2				
		ME	18 22	16		17.6			
		F	02 05						
244	" 4	eE	09 35.9	10					From the Galitzin.
		ME	38 38	15		1.5			
		F	09 45						
245	" 4	eLE	13 00.2	14					From the Galitzin.
		ME	01 31	12		1.0			
		F	13 15						
246	" 5	i(S?)E	01 35 44						From the Galitzin.
		eLE	37.9						
		F	01 45						
247	" 5	iPNE	11 31 43	5	+0.5	+0.5		2420	From Wiechert.
		iNE	31 51	5	+0.8	+0.9		(21°8)	
		iSN	35 37	8	-1.5				
		iSE	35 40	8		-2.0			
		mN	35 44	8	3.6				
		mE	35 49	8		5.3			
		eLE	37.3	24					
		ME	38 47	18		0.8			
		MN	39 24	18	0.8				
		F	12 10						

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RIVERVIEW COLLEGE ONSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude			Δ	Remarks.
					A_N	A_E	A_Z		
	1942		h m s	s	mm	mm	mm	km	
248	Nov. 7	eN	07 39 28						Obscured by very heavy microseisms.
		eE	39 31						
		eE	44 39						
		iE	48 58	4		-1.5			Readings from the Wiechert.
		ME	52 14	9		3.9			
		MN	52 24	8	7.4				
		F	08 40						
249	" 9	eE	04 04 30						EW readings from Galitzin, NS from Wiechert.
		iE	04 34	8		+1.5			
		iE	08 03	10		-1.0			
		F	04 40						
250	" 9	eE	10 41 32						Readings from Wiechert.
		eLNE	47.9	18					
		MN	50 23	14	0.4				
		ME	52 45	18		0.8			
		F	11 25						
251	" 10	iPNEZ	11 53 47	6	+1.1	+0.2	+0.3	9240	Condensation.
		iNEZ	54 35	7	-4.1	-2.0	-0.9	(83?1)	H 11 41 23
		iN	56 00	9	+3.4				
		iE	56 05	7		-2.0			All readings from Wiechert.
		iPPE	56 42	7		+3.7			
		iN	59 35	10	+2.6				
		iSNE	12 04 03	12	-15.0	+13.1			
		mNE	04 16	14	19.7	18.6			
		iPSNE	04 48	24	+13.6	+10.5			
		iSSNE	09 12	25	+11.0	+8.6			
		iSSSN	12 56	20	+6.1				
		eLQN	14.4	55					
		eLQE	14.5	52					
		LNE	15 48	36	10.0	22.0			
		LNE	16 24	36	10.0	28.8			
		ME	18 45	19		32.3			
		MZ	21 13	25			3.8		
		MN	21 18	23	56.5				
		eE	13 36.2	90ca					
		F	16 10						
252	" 12	eE	05 25.3						From Galitzin.
		eLE	50.1	36					
		F	06 30						
253	" 12	eE	15 57 00	12					From Galitzin.
		eE	16 03 30	14					
		eLE	22.9	28					
		ME	28 35	20		1.2			
		F	18 00						
254	" 14	i(S?)E	05 31 28	7		+0.7			Masked by very heavy microseisms.
		eLE	33.8	29					
		ME	37 56	13 2		2.5			From Wiechert.
		F	06 25						
255	" 15	iNE	17 32 25	7	-1.0	-1.4			Preceded by heavy microseisms.
		iE	32 47	7		-1.5			
		iE	35 20	7		-1.2			Readings from Wiechert.
		eE	42 31	15?					
		MN	50 29	22	0.9				
		ME	50 55	18		0.5			
		F	18 50						
256	" 17	i?E	10 06 50	6					
		iE	09 21	6		-0.5			Readings from Wiechert.
		eLN	15.2	20					
		MN	19 03	13	1.0				
		ME	19 23	17		0.8			
		F	11 15						
257	" 19	eE	09 29 40	6					Readings from Galitzin.
		eLE	53 44	25					
		ME	10 11 04	18		0.7			
		F	11 45						

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RIVERVIEW COLLEGE OBSERVATORY,
RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude			Δ	Remarks
					A_N	A_E	AZ		
	1942		h m s	s	mm.	mm.	mm.	km.	
258	Nov.21	eN	15 13.5	16					Small amplitudes,
		ME	19 19	18					Readings from
		MZ	19 25	18					Galitzin.
		MN	19 30	16					
		F	15 25						
259	" 21	iZ	19 33 59	4			+1.0		Small waves masked
		MNE	26 43	8	0.8	1.5			by microseisms on
		F	19 30						Galitzin.
260	" 22	eE	09 57.3	12					Readings from Galit-
		eN	57.4	12					zin. Small and mask-
		MZ	59 37	12			1.1		ed by heavy micro-
		MN	59 41	12	1.3				seisms.
		F	10 10						
261	" 22	iPZ	16 09 17	7			-1.2	3060	Dilatation.
		iPN	09 18	?	-0.8			(27°5)	Readings from Galit-
		iPPNZ	10 01	8	+1.8		+1.8		zin. Masked by
		iS_E	13 54	9		+1.5			heavy microseisms.
		iN	13 59	8	+2.1				
		iSS_E	14 45	18		+2.5			
		iN	14 53	14	+2.0				
		mNE	15 13	16	3.0	4.8			
		ME	17 31	12		7.7			
		MNZ	18 43	12	8.1		7.5		
		F	17 50						
262	" 25	MZ	02 17 37	20			1.1		On Galitzin N & Z
		MN	17 50	20	1.2				only.
		F	02 50						
263	" 25	eLN	13 57.3	18					Masked by heavy
		MZ	14 00 49	12			1.0		microseisms.
		MN	01 05	12	1.0				On Galitzin N & Z.
		F	14 10						
264	" 26	eN	10 10.3	15					Masked by heavy
		eLZ	14.7	18					microseisms.
		MN	16 16	14	1.2				On Galitzin N & Z
		MZ	19 06	15			1.1		only.
		F	10 30						
265	" 26	ePZ	14 39 55	6				2870	
		iPNZ	39 59	6	-1.8		+5.2	(74°4)	Condensation.
		i(pP?)E	40 33	6		+1.3			Focal depth prob-
		iS_N	40 29	6	+3.0				ably about 150 Km.
		iS_E	49 31	8		+2.8			
		iEZ	49 33	10		-7.5	-1.0		Readings from
		iN	49 43	14	+2.5				Galitzin.
		iZ	50 02	22			+2.2		
		iE	50 12	12		+10.5			
		iNZ	50 26	12	+2.5		+2.0		
		eLE	15 01.6	30					
		MZ	07 20	18			1.8		
		MN	09 03	18	2.0				
		ME	11 57	20		1.6			
		F	16 05						
266	" 27	eLN	05 13.7	22					Readings from
		MNE	17.6	12	0.2	0.2			Wiechert.
		F	05 25						
267	" 28	i(PKP)Z	10 58 37	6			+1.0		NS & Z readings
		eN	58 43	6					from Galitzin, EW
		iN	11 12 53	16	+2.0				from Wiechert.
		iN	22 08	20	+2.6				
		eLE	42.2	60					LQ?
		MN	12 01 43	20	7.0				
		MEZ	01 47	20		1.0	9.5		
		F	13 30						
268	" 30	eN	05 02.7						From Galitzin.
		MZ	06 37	24			1.0		
		MN	06 45	22	0.9				
		F	05 15						

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

Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

Φ = 33° 49′ 46″ S. λ = 151° 9′ 30″ E. h = 25 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	$\frac{r}{T_o \varepsilon}$		T_1 (Galv.)	T (Pend.)	$\mu 2$	V_s
N	1	215	8.2	4.3	0.007	4	12.9	12.8	+0.01	455
	3	144	9.5	7.5	0.029					
E	1	234	8.1	4.2	0.006	4	12.5	12.7	-0.08	490
	3	134	9.7	8.5	0.011					
Z	2	69	5.1	5.7	0.004	4	12.0	12.1	-0.03	400

No.	Date	Phase	Time (G.M.T.) h. m. s.	Per	Amplitude A_N mm.	A_E mm.	A_Z mm.	Δ km.	Remarks
	1942			s.					
269	Dec. 2	iPZ	00 18 44	5			-4.5	2410 (21°7)	Dilatation
		ePNE	18 44	5					Very heavy micro-seisms present.
		iNEZ	18 54	6	-1.0	-1.6	+5.2		Z readings from Galitzin, NS & EW from Wiechert.
		iSN	22 37	7	-3.5				
		iSE	22 38	7		-3.5			
		i(PcP?)Z	22 42	8			-7.3		
		iSS_N	23 03	9	+1.5				
		eL_NZ	23.6	24					
		MN	24 38	14	2.7				
		ME	25 00	16		2.2			
		MZ	25 28	18			8.4		
		F	01 45						
270	" 2	e?Z	16 23 26						Z readings from Galitzin, NS & EW from Wiechert.
		eN	28 04	12					
		eL_N	31.9	26					
		ME	33 50	14		0.3			
		MZ	34 36	18			1.7		
		MN	34 41	18	0.3				
		F	17 10						
271	" 3	iZ	01 21 53	4			+1.2		Z readings from Galitzin, NS from Wiechert.
		e(L?)Z	32.9	20					
		MN	43 14	20	0.2				
		MZ	45 44	20			1.0		
		F	02 05						
272	" 4	eL_N	12 04.7	20					NS readings from Wiechert, Z from Galitzin.
		MZ	07 17	16			0.4		
		MN	08 00	14	0.1				
		F	12 20						
273	" 4	iPNZ	15 31 24	10	+0.9		-0.9	3060 (27.3)	Dilatation.
		iS_N	36 00	16	-3.5				NS & Z readings from Galitzin, EW from Wiechert.
		iZ	36 18	16			+2.8		
		mN	36 38	22	12.3				
		mZ	36 44	26			4.6		
		eL_N	39.6	30					
		MN	41 09	22	13.0				
		MEZ	41.4	23		1.3	11.6		
		F	17 15						

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N.B. The amplitudes given are trace amplitudes only. Jeffreys' Tables (R.A.S. Geophys. Suppl. 4, No. 7) are used for P and S, and the Brunner Depth Chart for deep focus shocks.

RIVERVIEW COLLEGE OBSERVATORY,
RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
274	Dec. 5	eN	14 53 48	6					NS & Z readings from
		iE	54 20	7		-0.5			Galitzin, EW from
		iN	54 22	6	+1.5				Wiechert.
		eN	15 01 51	14					
		eL_N	11.9	28					
		MZ	14 40	18			0.4		
		MN	18 20	24	0.5				
		F	15 40						
275	" 6	iP_Z	15 45 59	5			+1.4	3050	Condensation.
		iS_N	50 39	11	-1.8			(27°4)	Masked by micro-
		eL_N	52.1	22					seisms.
		MN	53 37	16	2.9				NS & Z readings from
		ME	54 03	12		0.8			Galitzin, EW from
		MZ	55 39	9			3.0		Wiechert.
		F	16 45						
276	" 9	eN	02 43.8	12					Small waves on Gal-
		F	02 50						itzin N only.
277	" 9	iE	22 43 14	7		-1.2			
		iN	43 17	7	+2.5				All readings from
		iN	44 01	7	-2.5				Galitzins.
		iNE	46 23	9	+2.0	+1.9			
		eL_N	23 02.6	30					
		ME	07 54	22		0.9			
		MZ	08 58	22			1.0		
		MN	09 05	22	1.1				
		F	00 15						
278	" 11	eL_N	03 48.4	28					All readings from
		eL_Z	48.6	28					Galitzins.
		MZ	54 33	22			0.8		
		ME	56 46	20		0.8			
		MN	56 54	20	0.6				
		F	04 15						
279	" 11	eL_E	21 58.0	13					A few waves on
		F	22 00						Wiechert E only.
280	" 12	eN	17 09 38						
		MN	12 14	16	0.5				All readings from
		ME	12 26	14		0.7			Galitzins.
		MZ	13 00	16			0.5		
		F	17 25						
281	" 13	i?Z	19 20 34	6			-1.2		Obscured by micro-
		eN	20 46	12					seisms.
		iNZ	22 25	10	-0.5		+1.6		Z readings from
		eN	26 37	18					Galitzin, NS & EW
		eE	27 02	12					from Wiechert.
		eLQ?N	32.5	36					
		eLR?N	35.9	24					
		ME	40 44	18		0.6			
		MZ	40 59	16			5.5		
		F	20 25						
282	" 14	eL_E	16 14.3	16					A few shallow waves
		F	16 20						on Galitzin E.
283	" 15	eNZ	03 42 22						
		eL_Z	50.2	20					All readings from
		MZ	52 09	16			0.4		Galitzins,
		ME	52 43	16		0.4			
		F	04 00						
284	" 15	eN	09 19.9						From Galitzins.
		eL_{NZ}	23.2	18					
		F	09 30						
285	" 15	eZ	09 39 30	12					
		eNE	39 41	12					From Galitzins.
		eE	46 27	18					
		eL_{EZ}	10 06.1	26					
		MZ	11 19	20			1.0		
		ME	11 25	20		0.9			
		MN	11 55	20	0.6				F 11h 20m

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RIVERVIEW COLLEGE OBSERVATORY,
RIVERVIEW, N.S.W.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
286	Dec.16	eN	09 30.1						Readings from Galitzins.
		MZ	35 25	16			0.6		
		MNE	35.5	15	0.6	0.5			
		F	09 45						
287	" 17	iPNZ	01 13 34	6	+1.4		+1.5	2660 (24°0)	Condensation.
		iE	13 52	9		-1.0			Readings from Galitzins.
		iNZ	13 56	9	+2.4		+3.1		
		iSE	17 46	12		+3.8			
		iN	17 57	7	-2.7				
		SSNE	18 13	8	9.0	5.8			
		iLN	18 59	20	+7.5				
		iLZ	19 01	20			+4.0		
		MN1,ME	21.6	10	14.4	12.3			
		MZ	22 25	10			9.0		
		MN2	24 18	9	22.5				
		F	Lost in No.288						
288	" 17	eN	02 11 56	3					Masked by Coda of No.287.
		eLNZ	18.3	24					
		ME	20 00	13		2.3			Readings from Galitzins.
		MZ	20 15	16			1.5		
		MN	20 50	10	2.6				
		F	03 25						
289	" 17	iEZ	06 17 10	6		-0.8	-0.8		Readings from Galitzins.
		iE	21 37	7		-1.1			
		iZ	21 40	6			+1.0		
		iN	21 42	6	+1.2				
		eLN	23.5	18					
		ME	24 30	12		2.3			
		MZ	24 38	20			1.0		
		MN	25 14	12	2.1				
		F	07 05						
290	" 17	eLN	20 45.7	16					Readings from Galitzins.
		MN	49 56	14	0.9				
		ME	50 59	16		0.4			
		MZ	51.10	18			0.6		
		F	21 40						
291	" 18	eLN	17 11.8	12					On Galitzin N only.
		MN	12 59	12	0.4				
		F	17 25						
292	" 18	e?Z	21 33 41						Readings from Galitzins.
		eN	38 18	10					
		eLN	41.1	16					
		MN	42 23	12	0.8				
		MEZ	43.7	16		0.9	0.9		
		F	22 00						
293	" 19	eZ	00 42 52	8					Readings from Galitzins.
		eN	46 56	13					
		eLZ	49.5	24					
		MN	51 25	16	1.1				
		MZ	51 30	20			1.4		
		F	01 30						
294	" 19	e(P?)N	23 21 25	?					e(P?) from Wiechert, all other readings from Galitzins.
		i(PcP?)Z	21 57	9			+2.0		
		iZ	23 23	8			+2.5		
		eN	29 56	10					
		iSN	30 14	12	+2.5				
		iSE	30 16	12		+4.5			
		MZ1	47 36	18			6.5		
		MN1	47 41	18	7.0				
		ME	48 41	19		8.3			
		MN2,MZ2	49.9	18	12.3		12.2		
		F	02 50						
295	" 20	eL	11 57.6	18					A few long waves on Galitzins.
		F	12 05						

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RIVERVIEW COLLEGE OBSERVATORY,

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SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per	Amplitude A_N	A_E	A_Z	Δ	Remarks
	1942			s	mm.	mm.	mm.	km.	
296	Dec.20	eEZ	14 24 26	8					All readings from
		iEZ	25 43	8		-1.1	-1.5		Galitzins.
		eN	25 43	8					
		i_{NE}	29 29	10	-0.7	+1.5			
		$e(SSS?)_E$	45 24	28					
		eLQ_N	56.5	40					
		eLR_N	15 02.1	40					
		MN_1	08 43	26	7.5				
		MN_2	11 23	26	7.8				
		ME,MZ_1	12.2	25		7.5	7.0		
		MZ_2	17 51	22			7.8		
		F	17 30						
297	" 21	eLZ	05 40.4	24					Recorded on Galit-
		ME	41 33	18		0.8			zins only.
		MN	41 53	18	0.6				
		MZ	42 25	18			0.7		
		F	05 55						
298	" 22	ePEZ	04 21 40	7				3990?	All readings from
		iEZ	21 59	7		-1.2	+1.5	(35°9?)	Galitzins.
		iPPEZ	23 08	6		+1.5	-1.0		
		i_{NE}	23 37	6	+1.5	+2.5			
		iZ	23 37	6			+2.5		
		iZ	24 17	6			+2.8		
		iN	24 43	7	+1.5				
		iZ	24 46	7			+1.7		
		iE	27 01	7		+2.6			
		$i(S?)_N$	27 15	12	-1.8				
		iE	27 21	12		+2.5			
		$i(SS?)_N$	30 10	15	-6.0				
		eL_N	31.3	24					
		MN	34 23	12	11.0				
		MEZ	37.2	18		9.4	7.5		
		F	06 15						
299	" 22	$i(P?)_Z$	16 27 08	5			+1.3	3290	Condensation.
		e_N	27 08	5				(29°6?)	All readings from
		$i(S?)_{NE}$	32 00	8	-1.0	+1.0			Galitzins.
		$i(SS?)_N$	33 27	12	-2.0				
		iE	34 41	10		+1.5			
		eL_Z	36.6	32					
		ME	39 15	12		3.5			
		MNZ	40.7	15	4.3		4.3		
		F	17 20						
300	" 23	iNZ	10 11 43	8	+1.0		-1.0		All readings from
		eL_N	15.9	20					Galitzins.
		ME	17 30	15		0.9			
		MN	17 56	19	0.8				
		MZ	18 01	18			1.0		
		F	10 30						
301	" 23	ePZ	14 04 49	10				2980	All readings from
		iPN	04 51	12	+1.0			(26°8)	Galitzins.
		iZ	05 00	12			+2.3		
		iPP_N	05 29	14	+2.0				
		iZ	05 36	12			+2.5		
		PPP_N	05 47	14	2.7				
		iS_Z	09 20	8			+2.0		
		iS_N	09 26	12	-6.5				
		iZ	09 53	14			-7.5		
		m_{NE}	10 01	16	12.8	3.3			
		SS_{NE}	10 26	20	6.1	4.5			
		m_E	12 16	10		13.3			
		eL_N	13.1	26					
		MZ	15 46	18			14.4		
		MNE	15 52	15	19.2	22.8			
		F	15 55						

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No.12 (concluded) 1942, December.

RIVERVIEW COLLEGE OBSERVATORY,
RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1942		h m s	s	mm.	mm.	mm.	km.	
302	Dec.26	i_Z	12 54 22	6			+1.0		Condensation.
		eE	54 38	6					All readings from
		eE	13 03 36	12					Galitzins.
		eL$_E$	35.1	24					
		eL$_Z$	35.5	22					
		ME	42 00	18		0.5			
		MZ	42 28	18			0.5		
		MN	46 28	18	0.4				
		F	14 40						
303	" 27	eZ	16 50 47	9					All readings from
		iE	59 24	9		-1.7			Galitzins.
		i_N	59 28	9	+2.5				
		mE	17 00 47	16		1.5			
		eL$_N$	13.8	22					
		ME	16 52	18		1.5			
		MN	19 06	18	1.3				
		MZ	21 58	16			1.5		
		F	18 10						
304	" 29	eL$_E$	11 32.7	22					A few waves on
		MZ	34 03	18			0.5		Galitzins only.
		ME	34 29	18		0.5			
		F	11 40						
305	" 29	eL$_E$	23 48.2	28					Masked by micro-
		MZ	50 29	22			0.7		seisms.
		ME	50 35	22		0.8			Readings ffom Gal-
		MN	52 09	20	0.6				itzins.
		F	00 30						
306	" 30	MNE	02 43 58						Masked by micros.
		F	03 00						Readings from Gal-
									itzins.
307	" 30	eN	04 26 45	12					Masked by micros.
		MNE	30 26	18	0.4	0.7			Readings from Gal-
		MZ	31 38	16			0.4		itzins.
		F	04 45						
308	" 31	i_Z	12 23 45	10			+1.0		Condensation.
		eL$_E$	13 19.8	24					
		eL$_Z$	22.3	24					Readings from Gal-
		ME	30 01	20		0.5			itzins.
		MN	32 30	20	0.6				
		MZ	32 54	20			0.5		
		F	14 25						
309	" 31	i(S?)$_N$	19 05 28	12	-1.0				Preliminaries ob-
		eL$_E$	08.0	28					scured by micro-
		ME	11.38	18		2.5			seisms. Readings
		MZ	11 56	16			1.8		from Galitzins.
		MN	13 27	16	2.1				
		F	19 45						
310	" 31	eL$_N$	20 38.9	20					Masked by micro-
		ME	52 40	18		0.5			seisms. Readings
		MN	53 40	18	0.5				from Galitzins.
		MZ	54 09	18			0.5		
		F	21 15						

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