



Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S.

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

h = 25m.

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 ₀	$\epsilon:1$	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^2	V _s
N	1 3	206	8.0	6.9	0.003	4 4	12.8 12.9	-0.02	470
E	1 3	228	8.2	5.9	0.004	4 4	12.3 12.9	-0.09	440
Z	2					4	11.9	-0.04	450

No.	Date	Phase	Time (G.M.T.)		Per s.	Amplitude			Δ km.	Remarks	
			h.	m.		s.	A _N	A _E			A _Z
Unless stated otherwise, readings are from the Galitzins. From May 1, 1944, ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).											
1	1945 Jan. 2	eE eN eLN ME MN F	h	m	s	s.	μ	μ	μ	km.	
			04	15	51	12					
				16	00	12					
				16	.8	18					
				20	20	14		3			
				20	31	13	6				
2	" 2	ePZ eE eN eLEZ MNEZ F	04	55							
			05	01	38	10					
				01	51	10					
				06	02	9					
				06	.8	27					
				08	.5	20	4	4	8		
			05	55							
3	" 2	eLN F	22	14	.6	18					A few waves.
			22	20							
4	" 3	i(S)E iE e(L)E ME MN F	06	47	50	8		+4			
				49	17	8		+5			
				50	.8	16					
				52	41	16		3			
				52	47	15	5				
			07	15							
5	" 5	eLZ MEZ F	07	05	.0	25					
				13	.5	17	2	2			
			07	25							
6	" 5	eLZ MZ ME F	08	47	.0	20					
				53	47	18			2		
				54	09	18		1			
			09	05							
7	" 5	eLZ ME MZ MN F	11	47	.6	20					
				50	58	18		2			
				56	09	18			4		
				56	35	16	3				
			12	10							
8	" 6	eN eNE iE iN e(L)N ME MN MZ F	00	34	13	12					Masked by micro-seisms.
				37	32	10					
				37	38	10		+12			
				37	40	8	-6				
				38	.8	20					
				45	10	16		4			
				46	09	16	3				
				53	34	16			4		
			01	15							

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RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	Remarks
			h	m	s		AN	AE	AZ		
9	1945 Jan. 6	eLZ	10	18.0	25						
		MZ		23 14	18			4			
		ME		24 12	16		1				
		MN		24 40	16	1					
10	" 6	F	10	55							
		e(P)Z	21	17 14							
		i(PP)E		17 52	5		+2				
		e(S)NE		22 05	10						
		eZ		22 08	10						
		eN		22 56	12						
		eLZ		24.2	24						
		eLE		24.8	24						
		MN		25 52	15	5					
		ME		26 38	20		11				
11	" 7	MZ		27 22	17			8			
		F	22	25							
		eLE	04	00.9	18						
		MZ		03 08	18			2			
12	" 7	ME		03 36	14		2				
		MN		03 48	12	1					
		F	04	15							
		eLE	05	05.8	24						
13	" 7	eLZ		06.1	24						
		ME		08 26	24		2				
		MZ		09 22	22			2			
		F	05	20							
		e?Z	06	32 32	6						
		eE		37 54	10						
		eN		38 24	15						
14	" 7	eLZ		39.8	20						
		MN		41 20	16	2					
		MZ		41 43	18			3			
		ME		42 14	18		3				
		F	07	20							
		eE	11	25 02	8						
		eN		25 19	8						
15	" 7	eZ		28 23	14						
		eLEZ		38.3	20						
		MEZ		40.3	16		1	2			
		MN		40 23	14	1					
		F	11	50							
		eLE	15	52.6	18						
		MN		54 16	16	1					
16	" 7	MZ		55 50	16			1			
		ME		56 20	15		1				
		F	16	10							
		eN	18	44 14	12						
		eE		47 02	10						
		eN		47 49	12						
		eLNE		54.3	18						
17	" 7	MZ		56 46	16			2			
		ME		57 53	16		2				
		MN		58 28	16	2					
		F	19	20							
		eLE	21	00.3	20						
		MZ		01 16	17			2			
		ME		01 40	18		1				
18	" 8	MN		03 04	12	1					
		F	21	15							
		eN	01	46 15							
		eLN		51.5	18						
		ME		54 31	14		2				
MNZ		55.9	14	2		2					
F	02	10									

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RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	Remarks
			h	m	s		AN	AE	AZ		
19	1945 Jan. 8	eE MNZ F	04	29	09						
				32.5		18	2		2		
20	" 8	eZ MZ MN F	04	40							
			09	51.5							
				57	19	14			2		
				58	25	14	2				
21	" 8	eZ ME F	10	05							
			17	29.5							
				39	31	15		1			
22	" 9	eNE eLNE ME MZ MN F	16	35	45						
				42.4		20					
				43	09	20		4			
				46	01	20			4		
				46	07	20	3				
23	" 9	ePZ eE ePPEZ eN eE iSN iSEZ eN iNZ iE eLRN eLRZ MN ME1 MZ ME2 F	21	36	27	5			1	4460 (40°1)	H 21 28 53
				36	31	5					
				38	11	12					
				38	22	10	1				
				38	30	10		1			
				42	31	8	-6				
				42	32	8		+4	-3		
				45	39	14					
				45	49	11	-12		-6		
				45	56	10		-7			
				49.0		32					
				49.8		32					
				50	47	20	6				
				51	09	22		6			
				53	54	22			7		
				54	19	18		6			
24	" 10	eZ ME MNZ F	22	25							
			13	22.7							
				24	41	16		2			
				25.3		15	1		2		
25	" 11	iPNEZ i(pP)NEZ iNE iSNE iNE iZ eN iN MZ ME MN F	01	10	48	4	+3	+4	-8	2510ca Dilatation. (22°6)ca	Some evidence for a focal depth of 0.03
				11	30	4	-3	-4	+5		
				11	38	6	-4	-6			
				14	35	5	-4	+5			
				14	42	5	+8	+9			
				14	46	6			-9		
				14	56	14					
				15	12	6	+6				
				17	53	14			3		
				18	43	12		2			
				20	11	12	2				
26	" 11	P?Z e(S)E eLN ME MNZ F	10	45	19	6					Masked by micro- seisms.
				48	56	7					
				50.2		25					
				51	24	11		2			
				52	25	11	2		2		
27	" 11	e(P)E e(S)NE eLNE MN1 ME1 MZ MN2 ME2 F	20	01	13	8					
				05	44	9					
				08.3		16					
				10	56	12	3				
				11	49	12		5			
				12	20	18			5		
				12	34	20	4				
				13	53	18		4			

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RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
							AN	AE	AZ		
28	1945 Jan. 12	iPNZ	18	49	38	7	μ	μ	μ	km. 7980 (71.8)	Compression.
		iNZ		49	42	7	-4		+6		
		iPPN		52	18	12	+7		-19		
		eNE		52	58	14	+10				
		iSN		58	54	9	-8				
		iE		58	57	10		-15			
		iN		59	47	12	+9				
		iE		59	49	12		+8			
		eLQE	19	09.1	34						
		eLRNZ		12.6	32						
		ME1		16	08	16		9			
		MZ1		16	22	24			14		
		MN1		16	55	21	16				
		MZ2		20	02	18			12		
		MN2		20	24	17	12				
		ME2		21	34	17		9			
		W2		21	12	22	20		4		
		MN		16	50	24	3				
		F		21	55						
		29	" 13	eLN	05	55.1	20				
MEZ				57.5	15		1	2			
MN				57.6	15	2					
F	06			05							
" 13	" 13		05	57	21	1/2	1/2			Explosions. On N-S Wiechert only.	
			06	59.0		1/2	1/2				
			07	18.0		1/2	1/2				
			08	23.0							
30	" 13	e?Z	08	23.0							
		eEZ		29	36	8					
		eE		30	39	10					
		eLN		38.2	22						
		eLEZ		39.2	26						
		MN1		40	56	24	13				
		MEZ1		41.5	22			15	19		
		MEZ2		43	58	16		15	14		
		F	09	55							
31	" 13	iPNEZ	12	05	57	6	-3 1/2	+2	+6	5420 (48.8)	Compression. H 11 57 13
		iZ		06	14	7			+5		
		iPPNZ		07	50	8	-5		+10		
		iPPE		07	52	6		+3			
		iZ		08	07	6			+8		
		iSE		12	56	8		-4			
		iSN		12	59	8	-6				
		MN		13	07	10	5				
		iPSE		13	14	10		+6			
		iScSNE		15	50	8	+6	+7			
		iSSN		16	23	11	+9				
		iSSZ		16	24	10			+8		
		iE		16	30	9		+7			
		MZ		25	32	18			9		
		ME		26	55	18		8			
		MN		27	36	20	15				
F	13	50									
32	" 13	eLN	22	30.5	16						
		MNZ		31.7	16	1		2			
		ME		31	50	16		1			
		F	22	50							
" 14	" 14		02	04	24	1/2	1/2			Explosions. On N-S Wiechert only.	
			02	18	02	1/2	1/2				
			05	20	37	1/2	1/2				

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)				Per.	Amplitude			Δ	Remarks
			h	m	s	s		AN	AE	AZ		
33	1945 Jan. 16	eZ	13	35.8		6						
		eLZ		42.6		22						
		MN		44	11	18	2					
		MZ		44	15	18				6		
		ME		44	21	18			4			
34	" 16	F	Merged in No. 34									
		e(S)E	13	56	58	8						Preliminaries obscured by No. 33
		iN		57	00	8	+4					
		iE		57	04	8			-11			
		eE		57	55	12						
		ME		50	13	12			3			
		eL(Q)E	14	07.4		28						
		eLRN		10.8		24						
		ME		14	53	18			5			
		MN		15	30	20	4					
		MZ		15	43	18				5		
35	" 16	F	15	05								
		eZ	16	35	05							
		eLZ		42.1		24						
		MZ		43	35	20				5		
		ME		44	16	18			3			
		MN		44	37	16	2					
36	" 17	F	17	05								
		e	11	14.0								
		F	11	25								
37	" 17	i(P)Z	15	08	52	4				+4		Compression.
		e(PP)Z		10	16	7?						
		eSN		14	30	8	1					
		iSNE		14	35	10	-7		+8			
		ME		14	48	12			5			
		i(SS)NZ		17	17	12	+10			+10		
		eLRN		21.2		24						
		MN ₁		22	39	20	14					
		MZ ₁		23	46	25				12		
		ME		24	09	23			18			
		MN ₂		25	37	16	19					
		MZ ₂		25	49	16				19		
38	" 18	F	17	00								
		eE	04	12	27	14						
		eLN		16.5		24						
		ME		19	54	20			2			
		MN		21	19	14	1					
		MZ		21	25	17				3		
39	" 19	F	04	35								
		eN	19	07.4		10						
		eNE		12.8		13						
		MZ		18.6		15				2		
		MN		18.8		14	2					
40	" 20	F	19	30								
		c(P)Z	16	10	13	6						
		eZ		12	33	6						
		eN		19	42	12						
		eLE		22.2		20						
		MNEZ		25.2		15	7		4	5		
41	" 23	F	17	10								
		eN	06	05	50							Obscured by heavy microseisms.
		MNE		08.8		14	6		5			
		MZ		09	22	14				5		
42	" 24	F	06	25								
		e	09	39.2								A few small waves.
43	" 24	F	09	45								
		e(L)Z	20	45.6								A few small waves.

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					AN	AE	AZ		
44	1945 Jan. 25	iN	01 26 57	8	+4	μ	μ	km.	Masked by heavy microseisms.
		ME	28 19	15					
		MZ	32 07	17					
45	" 27	F	01 35						Masked by heavy microseisms.
		e(S)N	19 21 04	14	2				
		MN	35 24	18	4				
46	" 28	MZ	44 17	18			6		Masked by heavy microseisms. EW readings from Wiechert.
		F	20 00						
		eLN	07 42.6	26					
47	" 28	ME	44 17	15		30			Masked by heavy microseisms. EW readings from Wiechert.
		MZ	44 31	15			7		
		MN	44 38	14	18				
48	" 29	F	08 45						Masked by large microseisms.
		eN	20 10.7	16?					
		eN	15.5	12					
49	" 30	eLNZ	26.1	30					Masked by large microseisms.
		MN	30.2	20	3				
		MZ	30.5	20			3		
50	" 30	F	21 10						Masked by large microseisms.
		ePZ	21 09 23	4			5120		
		ipPZ	09 32	4			+5	(46°1)	
51	" 30	eSN	16 06	9					EW readings from Wiechert.
		ePSN	16 18	16					
		iN	19 52	10	+6				
52	" 30	eE	20 06	16					EW readings from Wiechert.
		iN	20 21	10	+11				
		MN1	27 26	20	6				
53	" 30	MZ	29 38	18			6		A few long waves.
		MN2	29 43	18	9				
		ME	30 51	18		6			
54	" 30	F	22 15						A few long waves.
		eL	02 40.1	20					
		F	02 45						
55	" 30	iPNZ	03 13 21	4	-2		+4		Compression.
		e(S)N	19 49	12					
		i(SS)N	23 19	9	+4				
56	" 30	i(SS)Z	23 20	6			+4		Compression.
		MN	34 12	20	2				
		MZ	34 22	20			4		
57	" 30	ME	35 08	16		5			NS & EW readings from Wiechert.
		F	04 00						
		MNZ	07 46 26	12	3				
58	" 30	ME	46 47	12		3			NS & EW readings from Wiechert.
		F	07 55						

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



Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S.

$\lambda = 151^{\circ} 8' 30''$ E

h = 25m.

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 ₀	s:1	$\frac{P}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^2	V _s
N	1 203	8.0	6.6	0.002	4	12.8	12.9	-0.02	470
	3								
E	1 216	8.2	5.7	0.006	4	12.3	12.9	-0.09	440
	3								
Z	2				4	11.9	11.8	-0.04	450

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _N	A _E	A _Z		
<p>Unless stated otherwise, readings are from the Galitzins. From May 1, 1944, ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).</p>											
52	1945 Feb. 1	iPNEZ	10	29	27	5	+7	+12	-9	2360 (2192)	Dilatation. Perhaps deeper than normal. Preceded by heavy microseisms.
		iSNE	33	12		8	-3	+10			
		iZ	33	18		3			-15		
		iN	33	28		8	+17				
		iE	33	39		8		-13			
		iN	33	42		9	+16				
		iZ	33	44		9			+17		
		eLZ	34	5		18					
		ME	36	21		16		6			
		MZ	36	49		17			7		
		MN	36	56		14	7				
53	" 1	F	Lost in No. 53.								
		iPEZ	10	40	27	6		-25	+19	2450ca.	Compression.
		iNEZ	40	34		6	-23	-34	+41	(22°ca)	Slightly deeper than normal.
		iPPNE	40	59		6	+31	+34			
		iN	41	36		5	+22				
		iE	44	17		5		+13			
		iSN	44	20		8	-35				
		iPcPE	44	24		6		-61			
		i(SS)N	44	42		8	+40				
		eLEZ	45	3		26					
		ME	47	20		18		61			
		MZ	47	45		16			55		
		MN	48	04		13	43				
54	" 1	F	Lost in No. 54.								
		iPEZ	12	18	15	4		+8	-11	2450ca.	Dilatation.
		iPNEZ	18	17		6	-26	-48	+54	(22°ca)	Compression.
		i(pP)Z	18	30		7			+87		h 0.01 ca.
		iPPNE	18	48		6	-30	-56			
		iZ	19	17		7			+23		
		iE	19	21		6		-17			
		iSEZ	22	06		5		+39	+52		
		iPcPNE	22	14		7	+113	-114			
		mZ	22	22		10			79		
		iSSE	22	48		12		-70			
		iSSSN	23	03		12	+113				
		eLE	23	1		25					
		MZ1	23	37		25			186		
		Me1	23	43		20		110			
		MN	26	40		13	60				
		MZ2	27	48		14			35		
		ME2MZ3	32	02		13		54	54		F 14h 50m.

RIVERVIEW COLLEGE OBSERVATORY
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
							AN	AE	AZ		
	1945		h	m	s				km.		
55	Feb. 3	eZ	00	19	.7						
		eLZ		28	.1						
		MZ		33	43						
		F	00	50							
56	" 3	iPZ	05	38	14	6			2500	Compression.	
		iPPE		38	40	6		+4	(22:5)		
		iSNZ		42	14	7	+4				
		eLE		43	.0	22					
		MZ		44	33	18					
		MN		46	24	12					
		F	06	20							
57	" 3	iPNEZ	15	04	36	6	+4	+6	2340	Dilatation.	
		ipPNEZ		04	44	6	+4	+10	(21:0)		
		iPPPEZ		05	09	6		+6			
		iSN		08	23	7	+3				
		i(PcP)EZ		08	30	6		+7			
		eLE		10	.6	22					
		MEZ		12	.2	16		4			
		MN		12	.19	14					
		F	15	50							
58	" 3	ePE	19	06	08	6		1	2340		(21:0)
		ePZ		06	12	6			2		
		ipPE		06	16	6		+5			
		eSN		09	55	7	1				
		i(PcP)E		10	03	6		+4			
		i(PcP)Z		10	04	6			-4		
		eLZ		12	.2	18					
		MEZ		13	.7	16		2	3		
		MN		14	06	13					
		F	19	45							
59	" 4	e(P)Z	22	57	24	8					
		i(S)E	23	01	16	8		+13			
		iZ		01	18	6			+4		
		eLN		02	.2	22					
		MNE		03	15	20	8	6			
		MZ		03	58	17			4		
		F	23	40							
60	" 5	eN	02	54	51						
		eLZ		56	.6	22					
		MN		58	54	16	1				
		ME		59	06	16		22			
		MZ		59	15	18			3		
		F	03	15							
61	" 6	e(S)NE	05	14	49	12					
		i(SS)NE		18	05	10	+9	+9			
		ME		26	31	16		3			
		MZ		27	29	18			4		
		MN		29	39	15	3				
		F	05	45							
62	" 7	ePEZ	23	54	17	8					
		iE		54	55	8		+7			
		i(S)Z		59	16	8			+6		
		eLEZ	00	01	.3	25					
		MN		02	47	16	6				
		MEZ		03	.2	18		7	11		
		F	01	05							
63	" 8	iPNEZ	13	59	33	6	-4	-6	2410	Compression. h 0.01 ca. H 13 54 49	
		iNEZ		59	36	6	+8	+18	(21:7)		
		ipPE		59	51	6		+13			
		iPPNE	14	00	01	7	-9	-10			
		iSNZ		03	23	7	+13		+8		
		iE		03	26	5		-8			
		i(PcP)Z		03	29	8			-21		
		sS?Z		03	56	8			15		
		i(SS)NZ		04	13	6	+14		-8		
		eLE		05	.5	20					
		i(PcS)NE	07	29		7	+26	+28			

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks
							AN	AE	AZ		
63 cont.	1945 Feb. 8	LZ	h	m	s	s	μ	μ	μ		
		MZ	14	07	35	7			-40		
		ME		08	57	25			65		
		MN1		09	29	18		27			
		MN2		10	28	13	16				
		F		12	22	13	19				
64	" 8	F	14	10							
		eE	17	59.5							
		eLZ	18	01.5	22						
		MN		02	05	20	2				
		MEZ		02	.8	20		2	2		
65	" 8	F	18	25							
		eZ	23	47.8							
		eLN		48.8	22						
		MN		50	13	18	2				
		MZ		51	47	17			2		
66	" 10	F	00	10							
		iPN	05	09	37	10	-6			8390	h 0.01
		i(PcP)N		09	54	16	+14			(7595)	H 04 58 03
		iSNE		19	08	11	-34	-39			
		iSKSE		19	38	8		-56			
		iSSE		19	49	7		+60			
		iPPSE		20	18	9		-29			
		iSSN		24	11	20	-50				
		eLQE		29.6		45					
		eLRN		32.3		29					
		MN1		35	48	26	86				
		MN2		38	10	22	125				
		ME		39	16	22			91		
		67	" 11	F	09	20					
eN	11			46.2							
eLN				51.3	18						
68	" 11	MEZ		53.9	17		2	2			
		F	12	10							
		eNE	19	42	45						
69	" 11	eLZ		46.7	18						
		F	19	55							
		eLN	21	17.6	17						
70	" 11	MZ		19	47	16			2		
		ME		19	54	16		1			
		F		21	55						
		MN		21	35	29	16	2			
71	" 12	MZ		35	35	18			2		
		ME		36	47	18		2			
		F		21	55						
		eN	06	09	11	10					
72	" 12	ME		11	19	14		1			
		ME		12	57	10			1		
		F	06	20							
		MZ	17	13	51	25				Shallow waves.	
73	" 13	F	17	20							
		eLE	09	45.5	18					Heavy microseisms.	
		MEZ		46	37	13		4	2		
		MN		46	50	13	3				
74	" 13	F	10	05							
		eL?N	12	44.3	50?						
		MEZ		56	48	25			7		
		MN	13	00.0	20	2					
75	" 14	ME		01.3	20		3				
		F	13	20							
		eLZ	14	42.1	20						
		MN		44	15	16	1				
75	" 14	MZ		44	36	17			2		
		F	14	55							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
			h	m	s		A _N	A _E	A _Z		
76	1945 Feb. 14	i(P)E	23	39	57	4	μ	μ	μ	km.	
		eZ		40	01	8		+4			
		e(PP)Z		40	30	7					
		e(SS)N		44	41	12					
		eLE		45.5		22					
		eLZ		46.4		26					
		MN		48	25	17	5				
		MZ		48	34	20			11		
		ME		48	39	18		8			
		iE		49	52	10		-30			
		F		00	50						
77	" 15	i(S)N	02	00	10	7	+4				
		eLEZ		03.0		22					
		MEZ		04.5		20		4	5		
		MN		05	00	14	2				
		F		02	25						
78	" 16	MNE	21	25.9		12	1	1			A few waves.
		F	21	30							
79	" 17	e(P)Z	18	48	10						
		i(PP)E		48	58	5		+4			
		e(S)E		53	06	12					
		mE		53	28	14		2			
		eLREZ		55.7		25					
		MN		58	06	14	4				
		MZ		58	28	17			9		
		ME		58	49	17		7			
		F		20	10						
80	" 18	eLE	05	20.8		17					Masked by micro-seisms.
		MZ		24.5		14			2		
81	" 18	F	05	30							
		eLZ	07	46.1		25					
		MZ		47	51	20			2		
		ME		48	18	20		2			
82	" 18	F	08	10							
		iPNZ	10	19	51	10	-4		+10	8340 (75°0)	Compression. h 0.01 ca. H 10 08 19
		iPcPZ		20	02	8			+6		
		iSE		29	19	10			-9		
		iSN		29	21	10	-4				
		iSKSNE		29	42	14	+11	+15			
		isSE		30	01	9		+7			
		eE		33	59	15					
		e(SS)N		34	17	16					
		eLQE		39.7		24					
		eLRNZ		42.3		25					
		MN		46	32	22	12				
		MZ1		46	38	24			16		
		MZ2		49	04	24			24		
		ME		49	21	19		14			
		eW2N	12	36.7		20					
		eW2Z		39.6		24					
		(MN)		42	48	22	4				
(MZ)		42	54	24			7				
83	" 18	F	Merged in No. 83								
		ePEZ	13	16	10	12				3170 (28°5)	
		iPPE		17	00	12		+9			
		iZ		17	05	12			+10		
		eSN		20	50	12					
		iN		21	00	12	+9				
		iE		21	38	14		+16			
		iN		22	42	13	+12				
		eLRZ		23.6		28					
		MN, MZ1		26.2		17	25		26		
		ME1		26	20	17		20			
		MZ2		27	38	16			26		
		ME2		27	59	16		22			
		F	15	30							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			A km.	Remarks
							AN	AE	AZ		
84	1945 Feb.18	eE	h	m	s	s	μ	μ	μ		
		eN	15	48.5		8					
		MN		49	10	10					
		ME		54	13	14	1				
		MZ		56	01	16		1			
85	" 18	F		56	44	16			3		
		eLEZ	16	10							
		eLN	17	42.3		24					
		MN		43	56	15	2				
		MEZ		44	36	16		2	3		
86	" 18	F	18	05							
		eE	22	55.4		11					
		eE		59.2		12					
		e(L)N	23	00.4		16					
		eLEZ		02.3		24					
87	" 19	MN		03	58	16	7				
		MEZ		05.8		18		11	12		
		F	00	20							
		eLN	09	18.5		20?					
		MEZ		21.5		20		3	4		
88	" 19	MN		22	09	16	2				
		F	10	00							
		e(P)Z	14	59	50	8					
		eE	15	04	16	10					
		eLN		05.0		20					
89	" 20	eLZ		06.6		20					
		MZ		08	43	18			4		
		MN		08	57	16	4				
		ME		09	09	20		4			
		F	16	05							
90	" 20	eLE	06	51.0		15					
		ME		53	23	13		1			
		F	07	00							
91	" 20	eLZ	17	24.2		20					
		MN		25	32	20	2				
		MZ		25	53	20			3		
92	" 21	F	17	35							
		eN	22	13	01	10					
		eNE		16	17	10					
		eLE		24.1		20					
		ME		26	52	20		2			
93	" 22	MN		27	02	20	2				
		MZ		27	14	20			3		
		F	22	40							
		MZ	09	40.1		20			2		
		F	09	50							
94	" 22	eN	08	36.9		18					
		MEZ		40.7		18		2	2		
		F	08	50							
		eN	11	45	40	13					
		eLEZ		47.0		22					
95	" 22	ME		48	56	18		4			
		MN		49	04	16	3				
		MZ		49	11	18			5		
		F	12	20							
		eE	21	20.5		16					
96	" 22	MEZ		25.0		16		2	3		
		F	21	35							
		eLN	22	11.4		20					
97	" 23	MZ		13	40	15			1		
		F	22	20							
		eLE	03	47.1		18					
		MZ		49	22	18			2		
		ME		49	27	13		2			
		MN		49	54	16	1				
		F	04	05							

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	Remarks
			h	m	s		AN	AE	AZ		
98	1945 Feb.26	e(P)Z	09	49	17	7	μ	μ	μ		
		iSNZ		53	08	10	+6		+5		
		i(sS)N		53	21	10	+6				
		eLZ		54	.6	18					
		MZ		56	12	17			3		
		MN		56	42	14	1				
99	" 26	F	10	15					Replica of No.98		
		e(P)Z	16	04	57	7					
		iSNZ		08	48	9	+6			+4	
		i(sS)N		09	00	9	+6				
		eLZ		10	.3	18					
		MZ		11	55	17				3	
100	" 26	MN		12	21	15	1			6790 (61:1) Dilatation. H 22 14 19 EW readings from Wiechert.	
		F	16	55							
		iPNZ	22	24	32	8	+3		-6		
		iPN		24	43	9	+9				
		iPcPNZ		25	20	6	+7		-10		
		iSNE		32	50	8	+12	+2			
		iN		32	57	9	+17				
		iPSNZ		33	12	10	+18		+15		
		iE		33	20	8		-6			
		iN		33	35	9	+24				
		eIE		41	.4	35					
		eLRN		42	.3	26					
		ME		42	56	24		66			
		MN		45	47	28	44				
MZ		46	04	26			37				
101	" 27	eW2ME	00	53	.8	25					
		F	01	30							
102	" 27	eZ	04	31	.2				Small local shock. Readings from Wiechert. Compression.		
		MZ		33	53	12				1	
103	" 27	F	04	40					Small local shock. Readings from Wiechert. Compression.		
		eNE	05	10	32	1	-1/2	-1			
104	" 27	iNE		10	40	1					
		F	05	11	.0						
		iPZ	13	16	57	4			+4		
		iNE		17	00	4	+4	+5	+5		
		eSN		21	12						
		iEZ		21	35	6		+9	+5		
		iN		21	47	10	-4				
		eSSE		22	13	12					
		eLRN		23	.2	20					
		MN		24	49	15	9				
105	" 28	MEZ		25	.1	18		9	8	Masked by heavy microseisms.	
		F	14	10							
		eLZ	21	23	.3						
106	" 28	MNZ		27	.0	14	1		2	masked by micro- seisms.	
		ME		27	.1	14		2			
		F	21	40							
107	" 28	eN	11	57	.0					Masked by micro- seisms.	
		MZ		58	36	16			3		
		ME		58	44	14		3			
		MN	12	00	15	15	2				
108	" 28	F	12	10						Masked by micro- seisms.	
		eN	13	31	18	8					
		eLNZ		33	.1	22					
		MZ		34	04	20			4		
		ME		35	26	11		5			
109	" 28	MN		35	40	11	3			Masked by micro- seisms.	
		F	13	55							
		eN	17	44	.7	10					
		e(L)E		46	.5	16					
110	" 28	MN		49	43	16	1			Masked by micro- seisms.	
		MZ		51	28	16			2		
		F	18	00							

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

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S. $\lambda = 151^{\circ} 9' 30''$ E h = 25m. 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 ₀	s:1	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^s	V _s
N	1 3	202	7.9	6.0	0.003	4 4	12.8 12.9	-0.02	470
E	1 3	219	8.1	5.7	0.005	4 4	12.3 12.9	-0.09	440
Z	2					4	11.9	-0.04	450

No.	Date	Phase	Time (G.M.T.)		Per	Amplitude			Δ km.	Remarks
			h. m. s.	s.		A _N	A _E	A _Z		
<p>Unless stated otherwise, readings are from the Galitzins. From May 1, 1944, ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).</p>										
108	1945 Mar. 1	e(L)Z	02 51.8	20	"	"	"	km.		
		MZ	59 55	18			3			
		ME	03 00 34	17		2				
		F	03 10							
109	" 2	eN	11 40.7							
		eLEZ	50.7	22						
		MN	54 09	18	2					
		MEZ	54.7	22		3	5			
		F	12 20							
110	" 2	iNE	19 51 12	6	+6	+4			Deep focus. Phases cannot be identified.	
		iE	58 24	9		+4				
		iN	59 18	7	-4					
		iE	20 02 24	8		+4				
		F	20 10							
111	" 5	i?N	12 25 43	6	+7				Heavy microseisms present.	
		eLN	31.9	18						
		ME1	35 34	18		8				
		MZ1	35 48	20			12			
		MN	36 26	12	6					
		MEZ2	37.5	17		10	12			
		F	13 25							
112	" 6	MNZ	17 01.2	16	2		3			
		ME	06 39	14		1				
		F	17 25							
113	" 8	i?NZ	13 20 21	4	+3		+4		Perhaps only a large microseism.	
		eE	31 55	8		2				
		MNEZ	35.7	14	3	3	4			
		F	13 45							
114	" 10	iPZ	00 50 33	5			-3	4710	Dilatation.	
		iPPEZ	50 56	5		+6	+13	(42.4)	h 0.01	
		iPPEZ	52 13	6		+6	+7		H 00 42 40	
		iPcPNZ	52 19	6	+4		-6			
		iSNE	56 47	8	-12	+8				
		iSSZ	59 54	10						
		iE	59 59	8		+10				
		iN	01 00 01	8	+12					
		iScSE	00 09	8		-22				
		eLZ	05.1	30						
		MZ	07 23	26			26			
		MN	07 32	26	22					
		ME	07 47	24		15				
		F	01 55							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			▲	Remarks
			h	m	s		AN	AE	AZ		
115	1945 Mar. 11	ePZ	17	53	14					km. 5010	
		iPNEZ		53	18	3	-4	+3	+9	(45°1)	Compression.
		iE		53	57	5		+4			h 0.01
		iNZ		53	59	5	-4		+7		H 17 45 06
		iSN		59	45	10	-15				
		MN	18	00	11	15	6				
		iScSN		02	57	10?	10?				
		iSSE		03	03	8		-13			
		iSSN		03	05	8	+18				
		eLE		09	.7	24					
		eLN		11	.1	26					
		MEZ		13	.9	20		13	12		
		MN		14	03	20	11				
116	" 11	F	18	55							
		iPZ	21	49	14	4			+4	8000	Compression.
		iN		49	18	4	+4			(72°0)	H 21 37 52
		iZ		49	24	8			+11		
		iSN		58	32	8	-8				
		iSE		58	35	10		-8			
		iE		58	56	8		+7			
		eN		59	11	15					
		iN		59	27	15	+14				
		eLE	22	07	.9	24					
		ME1		10	52	19		6			
		MNZ		15	.8	19	8		9		
		ME2		16	13	18		7			
		F	00	50							
117	" 12	eN	08	39	.4						
		MN		43	26	14	2				
		ME		44	27	14		1			
		F	08	50							
118	" 13	e?N	05	00	08						
		i(S)NZ		04	31	10	+10		+5		
		iE		04	33	8		+6			
		eLE		06	.2	22					
		MN		07	21	16	2				
		MZ		07	31	20			4		
		ME		07	37	18		2			
		F	05	40							
119	" 13	ME	12	37	17	12		1			
		MN		38	13	12	1				
		F	12	45							
	" 14		05	00	.9	Very	small	local	shock	(or, perhaps, explosion).	On Wiechert only.
120	" 15	eN	09	17	38	14					
		MN		19	16	16	3				
		eLEZ		19	.3	24					
		ME		20	24	24		4			
		MZ		20	55	20			5		
		F	09	30							
121	" 16	eNE	04	46	.7						
		F	04	55							
122	" 16	ME	05	59	37	13		2			
		F	06	00							
123	" 18	ePZ	00	26	38	6				2710ca	
		iPEZ		26	43	8		+10	-11	(24°4)ca	Dilatation.
		iPEZ		27	00	8		-8	+19		h 0.01 ca.
		i(PP)NE		27	10	6	+5	-10			
		iN		27	24	6	+8				
		iZ		27	33	6			+12		
		iN		27	38	6	+8				
		iE		27	40	10		+19			
		iN		29	04	7	+9				
		i(S)E		30	48	8		-9			
		iZ		31	06	12			+11		
		i(SS)NE		31	39	8	+24	+18			
		eLE		32	.6	28					

Continued on next sheet.

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks
							AN	AE	AZ		
123 cont.	1945 Mar. 18	eLNZ	00	32.9	30						
		ME1		34 00	20		23				
		MZ		34 14	22			46			
		MN		34 42	18	19					
		ME2		35 18	17		24				
124	" 18	F	02	35							
		eN	08	55 58	9						
		eLZ	09	01.2	20						
		MNEZ		03.8	20	3	3	5			
125	" 18	F	09	30					Compression.		
		iPEZ	16	13 14	6		-4	+2			
		iN		16 08	8	+5					
		eN		17 52	9						
		iN		18 31	8	+8					
		iZ		18 38	8			+8			
		MN		19 53	13	2					
		MZ		22 07	12			2			
		F	16	35							
		126	" 19	iN	19	42 38	6	-6			
F	19			50 ca							
127	" 19	eZ	20	38 28					Heavy microseisms.		
		eE		41 27	9						
		iN		41 38	9	+6					
		MZ		42 54	14			4			
128	" 20	F	20	50					Masked by heavy microseisms.		
		eN	09	04.5							
		eLE		06.2	24						
		eLN		07.5	25						
		MNZ1		12 06	20	4		6			
		ME		12 16	20		6				
		MZ2		18 52	18			6			
129	" 21	F	09	45							
		eN	12	29.9							
		eLZ		32.8	18						
		MN		33 30	14	3					
130	" 23	MEZ		35.5	16		2	3	Masked by very heavy microseisms.		
		F	13	05							
		eE	02	24 34	12						
		iNE		24 46	12	+8	+9				
		MZ		28 11	16			5			
131	" 23	F	02	40 ca.					3080 (27°7) Dilatation.		
		ePN	23	20 03	10						
		ePZ		20 06	10						
		iPNZ		20 10	12	-28		-30			
		iPPNZ		20 49	8	-26		-20			
		iN		21 17	8	-46					
		iSE		24 41	8		-25				
		iN		24 58	8	+25					
		i(ss)E		25 03	12		-127				
		iN		25 14	10	+22					
		e(LQ)E		25.4	22						
		iSSE		25 59	16		-193				
		iN		26 09	16	+110					
		iSSSE		26 17	15		-340				
		eLRNZ		27.0	24						
		MNZ1		27.7	21	254		174			
		ME, MZ2		29 06	11		140	124			
" 24	" 24	MN2		30 02	12	144					
		eW2	02	02.0	26						
		MZ		04 20	26			11			
		MN		04 28	26	7					
132	" 24	F	02	45							
		eN	12	00.7							
		eLN		05.7	18						

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			A	Remarks
							AN	AE	AZ		
133	1945 Mar. 28	iPNZ	h	m	s	s	μ	μ	μ	km. 3240 (29°1)	Dilatation.
		iSN	13	09	08	9	+4		-6		
		iZ		13	56	13	+20				
		iN		14	22	8			-11		
		iZ		14	46	10	+46		-19		
		eLRZ		14	47	10					
		eLRZ		17.2		30					
		ME		18.0		32					
		MZ		19 57		16		38			
		MN		20 49		18			46		
		F		20 57		20	57				
				14 30							
		134	" 29	iPEZ	09	00	08	5			
i(S)N				04	18	10	+6				
iE				04	33	8			-5		
e(L)Z				04.5		22					
MN				06 16		14	2				
MZ				06 50		14			1		
ME				09 41		14		1			
F				09 20							
135	" 30	eN	04	58.4					Masked by heavy microseisms.		
		eLE	05	02.5	22						
136	" 30	F	05	10					Masked by heavy microseisms.		
		eN	11	25.7							
137	" 30	MN	28	11	16	4			Masked by heavy microseisms.		
		F	11	40							
		eLE	14	33.4	20			5			
138	" 31	MZ	34.1		20				Masked by heavy microseisms.		
		ME	35.3		18		4				
		F	14	40							
138	" 31	iPZ	06	54	04	5		+9	4920	Compression. H 06 45 56	
		iNEZ		54	11	6	+10	-6	-10		(44°3)
		iPPZ		55	52	6			+8		
		iSN	07	00	35	10	+13				Heavy microseisms.
		iSE		00	37	10		+6			
		iN		00	42	10	+13				
		MNE		01	00	13	6		6		
		iScSE		03	53	8			-13		
		iScSN		03	54	8	+10				
		iE		03	59	10		+19			
		iN		04	03	10	+19				
		iSSSE		04	37	12		+26			
		eLRZ		06.6		25					
		ME		10 45		18		11			
		MZ		12 41		18			11		
		MN		12 47		20	13				
		F		08 00ca.							
139	" 31	eE	21	48	11	9					
		eN		48	33	15					
		eLN		50.8		24					
		ME		51 50		26		16			
		MZ		54 11		20			10		
		MN		54 15		20	12				
140	" 31	F	22	10							
		eLNE	23	05.2		30					
		ME		10 04		22		8			
		F	23	25							

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

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S.

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

h = 25m.

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 ₀	s:1	$\frac{r}{T_0^2}$	T ₁ (Galv.)	T (Pend)	μ^2	V _s
N	1 3	202	7.9	5.3	0.007	4 4	12.8 12.9	-0.02 470
E	1 3	219	8.1	5.7	0.005	4 4	12.3 12.9	-0.09 440
Z	2					4	11.9 11.8	-0.04 450

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ	Remarks
			h.	m.	s.		A _N	A _E	A _Z		
<p>Unless stated otherwise readings are from the Galitzins. From May 1, 1944, ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).</p>											
<p>1945</p>											
141	Apr. 1	iPZ ipPE iZ iSN iSE iE iN F	00	49	24	5				3010 (27.1)	Dilatation. h 0.015 H 00 43 52 Heavy microseisms.
		SS	53	51	6	+8					
			54	39	6		+6				
			54	50	10		+9				
			54	51	12	+11					
		F	01	05	ca						
142	" 1	MEZ F	09	21.1		22		7	5		Masked by heavy microseisms.
143	" 1	eN MN ME F	15	20.1		12	2				Masked by heavy microseisms.
			21	21		12					
			22	21		12		2			
			15	30							
144	" 2	eNE iN iE eLN MN ME F	00	54.0		8	+9				Masked by microseisms.
			54	10		10					
			55	01		12		+8			
			55.1			24					
			59	12		14	6				
			59	47		11		11			
		F	01	15							
145	" 5	i(P)Z eN ME MN F	23	13	23	4			+7		Compression. NS & EW readings from Wiechert.
			18	10							
			21	15		16		5			
			22	00		16	6				
		F	23	30							
146	" 8	eLZ MZ ME MN F	01	10.2		24				13	Masked by very heavy microseisms.
			11	33		18					
			11	54		18		11			
			12	17		18	11				
		F	01	35							
147	" 10	eNE eLE ME MNZ F	01	43	33	8	2	2			S or SKS ? Masked by microseisms.
			54.8			32					
			02	03	40	20		6			
			04.1			20	8		9		
		F	02	25							
148	" 10	eZ eN eN eZ ME MNZ F	16	26.3		12?					Masked by microseisms.
			34.9			25					
			35.4			25					
			42.8			18					
			51	16		22		8			
			52.7			22	9		12		
		F	17	15							

(Continued on next sheet-

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
							AN	AE	AZ		
149	1945 Apr. 11	iN	08	53	20	12	μ	μ	μ	km.	Preceded by heavy microseisms.
		eLN				18					
		MZ				18		6			
		ME				18		8			
150	" 11	F	09	20							Compression. Preceded by heavy microseisms.
		i(P)Z	15	23	49	5			+8		
		iZ				6			+6		
		iE				8			+8		
		eLEZ				24					
		MN				14	11				
		ME1				16		20			
		MZ1				16				30	
		ME2				15		25			
		MZ2				15				31	
151	" 13	F	16	45							3220ca Dilatation. (29°)ca h 0.07 ca
		P?Z	18	15	25	6				5	
		i(S)E				6			+6		
		eLZ				20?					
		MEZ				17		3		4	
		MN				16	2				
152	" 13	F	18	30							3220ca Dilatation. (29°)ca h 0.07 ca
		i(P)EZ	21	20	09	6			+5	-8	
		i(pP)E				6			+7		
153	" 15	i(S)N				5			+9		10,220ca Dilatation. (92°)ca H 02 35 25 Normal depth.
		F	21	35							
		iPZ	02	48	32	5				-5	
		ipPZ				6				+21	
		IPPZ				6				+10	
		iSKSN				10	+18				
		iSE				10		+7			
		iScSN				8	-21				
		iScSE				8		-19			
		iSSE	03	05	44	10?		+19?			
		eLQE				30					
		eLRZ				30					
		ME1				22		39			
		MZ1				24				67	
		MN				22	63				
		MZ2				19				57	
		ME2				18		24			
		F	05	35							
154	" 17	eN	12	24	.2	10					6280 (56.5)
		eLEZ				25					
		ME				20		3			
		MZ				20				5	
155	" 18	F	12	35							2400 (21.6)
		ePEZ	13	14	13	6					
		iSE				10		+7			
		iSN				10	+7				
		iPSE				22?		+16?			
		e(SS)NE				14					
		eLQE				28					
		eLRZ				30					
		MN				22	20				
		ME1				22		28			
		MZ				22				33	
		ME2				17		24			
156	" 19	F	15	10							2400 (21.6)
		ePEZ	02	07	35	10?					
		ipPE				8			+6		
		eSE				10					
		eLZ				20					
		MN				14	3				
		ME				14		2			
		MZ				16				3	
		F	02	50							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
							AN	AE	AZ		
157	1945 Apr. 19	iPNEZ	h	m	s	s	μ	μ	μ	km. 2450 (22°0)	Dilatation. H 13 03 46
		ipPE	13	08	39	8	+19	+31	-36		
		ipPE		08	54	8		+26			
		ipPE		09	00	8		+59			
		iPPNZ		09	01	8	+30		-36		
		mNEZ		09	14	8	21	42	45		
		iN		09	39	8	-55				
		iE		09	42	7		-33			
		iSEZ		12	35	10		-77	-53		
		iSN		12	36	10	+120				
		mEZ		12	45	12		65	109		
		iSSN		13	12	12	+96				
		e(LQ)N		13.4		25					
		iLREZ		13	58	26		+214	+210		
		MZ1		15	01	20			193		
		ME1		15	34	16		126			
		MN		15	53	14	200cs				
ME2		16	32	14		127					
MZ2		17	10	17			152				
F		Merged in No. 158.									
158	" 19	MN	15	46	47	14	2				
		ME		48	15	15		2			
		MZ		51	11	16			3		
159	" 19	F	Merged in No. 159.								
		e(L)Z	16	07.5		20					
		MN		12	32	12	2				
		MZ		12	45	16			4		
160	" 20	F	16	50	ca						
		eLZ	04	04.1		22					A few long waves.
161	" 20	F	04	10							
		ePEZ	22	40	17						
		e(P)EZ		40	40	9					
		eE		41	02						
		iE		41	18	12		+8			
		i(S)E		44	59	9		+7			
		iN		45	21	9	+5				
		iE		45	36	10		+12			
		eLE		47.9		30?					
		MN		51	10	14	13				
		MEZ		56.2		14		18	15		
162	" 21	F	00	35							
		ipZ	01	21	18	8			-5		Dilatation.
		ePE		21	18	8					
		e(S)Z		25	09	12					
		eE		25	11	12					
		iE		25	25	12		+8			
		eLE		27.1		20					
		ME		30	09	12		3			
		MN		33	19	14	5				
		MZ		33	29	16			7		
		F		02	25						
163	" 21	eN	10	49	43	10					
		eLNZ		51.9		20					
		MN		53	10	16	6				
		MZ		58	09	16			4		
		ME		59	36	13		3			
164	" 21	F	11	30							
		eZ	12	22	03	9					
		eE		26	11	13					
		MN		29	49	12	2				
		ME		30	15	16		2			
		MZ		30	57	14			2		
		F		13	00						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	Remarks
			h	m	s		AN	AE	AZ		
165	1945 Apr. 21	eE	15	43	0						
		MZ		48	13	15					
		ME		48	17	15		1		2	
166	" 21	F	15	55							
		eLEZ	18	07	9	26					
		ME		14	19	18		1			
		MZ		14	51	18				3	
167	" 22	F	18	30							
		e(PP)E	03	56	17						
		eN		56	40	12					
		i(PcP)Z		56	48	6				+5	
		eSN	04	00	34	14					
		iE		00	41	10		+6			
		iN		01	04	10	-12				
		iE		02	18	13		+12			
		iN		03	10	14	+17				
		iE		03	24	13		+19			
		e(LQ)E		03	6	34					
		i(ScS)E		04	48	10		+37			
		iN		04	55	10	+27				
		eLRN		05	9	25					
		ME1		07	03	16		33			
		MN		07	48	16	33				
		MZ1		08	02	17				30	
		ME2MZ2		09	53	15		51		35	
168	" 22	F	05	30							
		iPNEZ	09	59	00	4	+4	-4		-12	Dilatation.
		iZ	10	00	42	6				-5	Probably very
		iSN		05	05	6	+20				deep focus.
		iSEZ		05	08	6		-11		-10	
		iE		07	50	8		-9			
		ME		18	42	18		7			
		MN		19	38	18	9				
		MZ		19	54	18				11	
169	" 23	F	10	50							
		iPNZ	06	28	34	5	+4			-5	3010 Dilatation.
		iPPZ		28	58	6				+8	(27°1) h 0.01
		iN		29	00	6?	+10?				Region of 10°S.,
		iZ		29	08	8				+13	165°E.
		iNZ		29	30	7	-20			+24	
		iE		31	23	8		+12			
		iSNE		33	04	9	-54	-30			
		iSZ		33	06	5				+22	
		iSE		33	39	6		+21			
		iN		34	36	8	+49				
		iE		34	58	8		+54			
		iZ		35	12	12				-56	
		iE		35	30	7		+40			
		eLE		37	2	15					
		ME		38	37	12		39			
		MN		40	16	14	37				
		MZ		40	28	16				51	
170	" 25	F	07	50							
		eLN	02	44	1	25					Masked by large
		eLE		45		26					microseisms.
		MN		46	42	12	8				
		ME		47	18	14		9			
		MZ		48	51	13				7	
		F	03	10							

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ	Remarks	
							AN	AE	AZ			
171	1945 Apr. 25	iPEZ	h	m	s	s	μ	μ	μ	km. 2370 (21:3)	Compression.	
		iPPE	13	04	51	8		-7	+11			
		iPPPE		05	18	8		+8				
		iSE		05	25	8			+8			
		iN		08	41	5		+7				
		iZ		08	46	8	+16					
		iE		08	47	8			+15			
		eLQE		08	49	8		+20				
		eLREZ		08.9		16						
		MZ		10.0		30						
		ME		11 00		20			14			
		MN		12 29		20		9				
		F		12 41		12						
172	" 26	iPZ	13	50						3410 (30:7)	Compression. h 0.07 H 13 41 06 esS from Wiechert	
		iSE	13	46	42	3		+4				
		iSN		51	11	6		-5				
		esSN		51	12	6	-8					
		iN		53	48	7						
		iScSN		55	25	8	+6					
		iScSE		56	28	5	-8					
		MN		56	29	5		+8				
		F		59	49	9	4					
		F		14 10								
173	" 29	iN	02	43	43	6	+7			Masked by micro- seisms.		
		eNE		44.5		22						
		eN		55.3		25						
174	" 29	F	03	10						Compression.		
		i(P)Z	19	50	40	5		+5				
		iNE		56	04	8	-3	+6				
		eN		57	19	14						
		eLN		58.77		19						
		MNE	20	01	26	17	6	4				
		MZ		01	35	16			5			
175	" 30	F	20	40								
		eN	13	02.3								
176	" 30	MN		03	27	13	1					
		F	13	10								
177	" 30	eN	17	14.8								
		eLE		24.3		26						
		MZ		30 09		18			2			
177	" 30	F	Merged in No. 177.								3320 (29:9)	Dilatation. h 0.08 H 17 27 27
		iPEZ	17	32	53	3		+3				
		iPPE		34	37	4		+4				
		iPcPZ		35	24	6			+6			
		iSN		37	12	6	-11					
		iSE		37	14	6		+11				
		iN		38	18	7	+6					
		iScSN		40	31	10	+9					
		MN		41	59	14	5					
		iScSNE		42	28	7	-19	+10				
		iNE		46	22	9	-10	+10				
		MZ		46	23	20			7			
		F		18 40								

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

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\Phi = 33^{\circ} 49' 46''$ S.

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

h = 25m.

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 ₀	$\epsilon:1$	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^3	V _s	
N	1 3	200	7.8	5.8	0.003	4 4	12.8	12.9	-0.02	470
E	1 3	223	8.0	5.9	0.006	4 4	12.3	12.9	-0.09	440
Z	2					4	11.9	11.8	+0.04	450

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _N	A _E	A _Z		
Unless stated otherwise readings are from the Galitzins. From May 1, 1944, ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).											
178	1945 May 1	ez eE eLZ ME MNZ F	04	39.7			μ	μ	μ	km.	
179	" 1	e (PP) Z e (PS) NZ e (PS) E eE eLZ F	06	17.5	20			2	3		
180	" 1	eLZ MZ F	08	48.4	18				1		
181	" 1	ez ez e(L) Z MZ F	16	53.6						1	
182	" 1	eE eLEZ MN MZ ME F	21	46.4	10	1		1	2		
183	" 1	ez MZ F	23	30.1	12				3		
184	" 3	iN iZ MNE F	11	55 35	4	+3		2	+5		
185	" 3	i(P) Z iE eN eLREZ MN ME MZ F	15	23 28	8			+4	+4		
					8			4	7	9	
			16	10	17						

(Continued on next sheet)

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

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ
							AN	AE	AZ	
186	1945 May 4	eN eLZ iE MEZ MN F	08 08 43 46 48	38.5 40.7 51 41 01	5 24 7 18 14					
						3				
187	" 5	ez eLN eL E Z MZ ME MN F	14 14 06 07 07 08	03.5 05.5 06.2 33 56 23	5 18 26 22 19 16					
						6	11	14	Masked by micro-seisms.	
188	" 7	ez eNE ez MN ME MZ F	17 17 29 34 35 38	26.9 29.8 29.9 36 08 17	10 10 10 16 14 14					
						9	9	9	Masked by micro-seisms.	
189	" 8	eLN ME MNZ F	17 17 18 17	16.4 53 2 35	16 14 16					
						6	4	5	Masked by heavy microseisms.	
190	" 9	iPNEZ ipPNEZ iSZ iSNE iE isSNEZ eLZ F	03 03 42 42 45 45 45	37 32 09 34 35 18 40 51	5 6 6 6 6 6 22	-10 -25	+11 +24	+24 +42 +23	4070 (36.6)	
						+21	-90		Compression. h 0.09 H 03 31 14	
						+28	-11	+57		
191	" 9	e(P)N i(S)N iN MNE iN iE iE F	22 22 32 34 35 35 36	29 31 42 11 05 26 38 25	3 3 3 6 5 5 5	-7 +5 7 -9		6 -6 +14	Heavy microseisms present.	
192	" 10	eN eE eL?N eLZ MN MZ ME F	18 18 47 50 51 52 52	20 42 29 4 6 39 03 43	20 22 20 20 20					
						3		4		
							3			
193	" 11	eLN eLZ MN ME F	08 08 19 20	17.8 18.5 29 37	20 20 16 14					
						1		2		
194	" 12	eLN MN ME F	13 13 56 14	53.0 44 48 10	16 14 14					
						2		1		

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ	Remarks
							AN	AE	AZ		
195	1945 May 14	e(P)N	h	m	s	S	"	"	"	km. 1000ca (9°)ca	
		ee	05	04	20	1					
		enZ		04	31	1					
		ie		05	12	4?					
		iz		05	38	4		+4			
		ie		05	35	4			+4		
		ie		05	38	3		-5			
		iSN		06	02	4	-3				
		iz		06	03	3			-77		
		iSSE		06	11	3		+11			
		iz		06	25	3			-12		
		eLN		06	22	9					
		eLE		06	36	10					
		iN		06	37	4	+16				
		MN		06	51	10	8				
		ie		07	08	4		+10			
		iNZ		07	09	4	+15		+10		
MZ		07	25	9			10				
ME		07	39	9		10					
F		03	20								
196	" 14	en	08	54	15	1				Replica of No.195	
		ee		54	23	1					
		enZ		54	48	5?					
		iN		55	05	3	+4				
		ie		55	14	4		+3			
		ie		55	36	3		-7			
		iSZ		55	40	4			-7		
		iSN		55	41	4	-7				
		iSSE		55	48	4		+13			
		eLN		56	02	10					
		iz		56	03	3			-10		
		eLE		56	10	11					
		iN		56	12	4	+16				
		MN		56	27	10	6				
		iN		56	45	4	+15				
		MZ		57	05	8			6		
		ME		57	07	8		4			
F		09	10								
197	" 15	ipZ	03	41	28 ²³	4			+7	Compression. Deep focus?	
		i(S)N		45	13	10	+19				
		ie		46	07	8		+7			
198	" 16	eLN	19	25.6							
		MN		28	10	16	3				
199	" 17	F	19	45						Obscured by microseisms.	
		i(S)E	08	35	20	9		+9			
200	" 18	ie		36	55	4		-4			
		eLEZ		38.2		13					
		ME		39	12	14		7			
		MNZ		40	16	14	5		4		
		F	08	50							
		eLZ	09	38.2		20					
		MZ		39	18	18			2		
201	" 19	F	09	45							
		eZ	02	35	13						
		eLZ		42.9		24					
		MNZ1		45	32	16	5		5		
		ME1		45	42	15		5			
		MZ2		47	14	16			8		
		MNE2		47	30	14	9	6			
202	" 19	F	03	40							
		ee	08	21.3							
		ee		25.3							
		ME		39	06	20					
		eLZ		41.5		25					
		ME		51	52	16		3			
		MN		53	56	15	1				
		MZ		54	54	20					
F	09	35					33				

Continued on next sheet)



RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per. s	Amplitude			Δ km.	Remarks
					AN μ	AE μ	AZ μ		
203	1945 May 19	eN	15 13 44						
		eE	14 15						
		eLZ	18.7	18					
		MN	19 00	18	2				
		MZ	19 22	18			4		
		ME	20 02	15		3			
204	" 19	F	Merged in No. 204						
		iE	15 32 08	10					
		eE	34 50	18					
		eN	34 54	18					
		eN	40 46	14					
		iE	41 00	10					
		mNE	41 08	18	6	-6	8		
		eLRNEZ	55.8	32					
		MZ1	56 42	34			19		
		ME	58 30	24		11			
		MN	16 00 22	20	6				
205	" 19	MZ2	00 53	18			7		
		F	17 50						
		e(L)Z	23 32.9	15					
		MN	35 48	15	4				
206	" 20	MZ	36 59	16			4		
		ME	37 04	16			4		
		F	00 00						
207	" 20	MN	06 22 08	15	4				
		ME	22 50	18			4		
		MZ	23 56	16				2	
208	" 20	F	06 40						
		eLN	12 04.7	18					
		MN	06 06	15	2				
		ME	07 10	16			3		
209	" 21	MZ	07 24	17				3	
		F	12 25						
		i(P)Z	18 11 16	2			+3		Compression.
		i(pP)Z	11 35	4			-5		
		i(S)N	18 27	6	+3				
		i(S)E	18 29	5		+5			
i(ss)NE	19 03	9	+5	+5					
ME	32 11	18			3				
210	" 21	F	18 40						
		eZ	11 45.7						
		eLZ	51.3	20					
		MZ	52 32	18			3		
211	" 21	MN	52 46	16	2				
		ME	53 12	16			3		
		F	12 10						
212	" 21	eLZ	12 32.2	18					
		F	12 40						
		eLE	16 10.1	18					
		ME	10 34	18			5		
213	" 21	MN	10 51	14	3				
		MZ	12 18	13				2	
		F	16 30						
214	" 21	eZ	19 02.6						
		ME	04 29	14			1		
215	" 28	F	19 10						
		iPZ	09 44 50	5			+4	2940	Compression.
		iSE	49 19	9			-6	(26°4)	
		eLR	51.2	26					
		eLRZ	51.5	26					
		MN	52 08	18	7				
		ME	52 14	21			9		
		MZ	52 30	20				10	
F	Merged in No. 214								

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RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks	
							A _N	A _E	A _Z			
214	1945 May 28		h	m	s	s	μ	μ	μ	km. 2950 (26°5)	Compression.	
		iPZ	10	13	54	4			+5			
		iNE		13	57	4	+4	+6				
		ipPZ		14	01	8			+13			
		iPPZ		14	21	6			+7			
		meZ		14	33	8		4	6			
		iSNEZ		18	23	9	-9	-15	-11			
		isSN		18	44	8	+15					
		isSZ		18	46	8			+12			
		iSSN		19	29	9	-25					
		eLN		20.0			24					
		eLZ		20.2			25					
		MN1		21	13		18	20				
		MZ		21	54		16		17			
		ME		22	18		18		21			
MN2		23	22		14	21						
215	" 29	F	11	30						5300 (47°7)	Compression.	
		iPZ	17	42	33	5			+5			
		iPPZ		44	21	6			+6			
		eSE		49	26	12						
		iSSNE		52	47	9	+7	+6				
		MN		58	58	16	3					
		ME		59	37	17		4				
216	" 30	MZ	18	01	34	18			4			
		F	18	35								
		ez	08	58	05	6						
		eLE	09	05.8		16						
		eLNZ		06.5		20						
		ME		07	46	18		5				
		MZ		08	44	16			5			
MN		10	36	12	2							
F	09	30										

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

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S.

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

h = 25m.

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.)

	N	V	T ₀	e : i	$\frac{r}{T_0^2}$		T ₁	T	μ^a	V _s
							(Galv.)	(Pend)		
	1	195	7.8	6.1	0.002	4	12.8	12.9	-0.02	470
	3									
	E	220	8.0	6.0	0.017	4	12.3	12.9	-0.09	440
	3									
	Z	2				4	11.9	11.8	-0.04	450

No.	Date	Phase	Time (G.M.T.)		Per	Amplitude			Δ	Remarks
			h.	m. s.		A _N	A _E	A _Z		
Unless stated otherwise, readings are from the Galitzins. Ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The tables used are those of Jeffreys and Bullen (1940).										
217	1945 June 1	eN	15	37 43	14	μ	μ	μ	km.	
		eLN		55.8	25					
		MZ	16	02 46	18			2		
		F	16	45						
218	" 3	e (PP)	13	26 24						
		i (PS)	13	36 45	10	+7	-6			
		eE		39 09						
		e (SS)		43 32	30					
		ME		44 22	25		7			
		eE		46 32	18					
		eZ		47.8	30					
		MEZ		48 50	20		4	7		
		eZ		51 27	22					
		eLRZ	14	05.0	30					
		eLE		05.7	26					
		MZ ₁		09 15	22			15		
		ME ₁		09 22	22		13			
		MN ₁		09 47	18	6				
		ME ₂ MZ ₂		13 43	16		10	15		
		MN ₂		13 50	16	7				
		F		15 45						
219	" 4	eLZ	08	18.1	25					
		F		08 25						
220	" 4	i (SKS)	12	33 13	7	-4	-5			Microseisms present
		eN		39 29	14					
		MN ₁	13	01 45	22	5				
		MZ		03 41	22			8		
		ME		05 59	22		8			
		F		13 45						
221	" 6	eE	01	13 30	12					Masked by microseisms.
		eLZ		25.3						
		ME		28 24	20		7			
		MZ		28 53	20			7		
		MN		29 17	20	7				
		F		01 55						
222	" 7	eLE	03	06.0	20					
		F		03 20						

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

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude			Δ	Remarks
					AN	AE	AZ		
223	1945 June 7	i(P)EZ	h m s 11 54 42.	s 5	μ	μ +6	μ -6	Km.	Dilatation.
		e(S)N	58 50	13					
		eLN	12 00.7	24					
		eLZ	01.3	28					
		MN	05 11	14	9				
		MZ	06 26	17			11		
224	" 8	F	13 25						
		eLZ	17 59.5	20					
		MZ	18 00 36	20			7		
225	" 9	ME	00 42	18		5			
		MN	01 28	14	2				
		F	18 15						
226	" 12	e(L)N	15 56.2	15					
		MN	58 20	13	3				
		ME	58 45	14		2			
227	" 14	F	16 10						
		eZ	16 15.5						
		MN	18 18	13	12				
		MZ	19 23	18			15		
228	" 14	ME	19 47	17		12			
		F	16 50 ca						
		eLZ	00 22.3	20					
229	" 20	MN	26 01	14	8				
		MEZ	27 21	18		10	10		
		F	00 40						
230	" 20	MZ	08 59 22	20			10		
		F	09 05						
		ePZ	01 36 27						
		iE	46 04	10			+7		
		eN	46 17	15					
		eN	51 05	21					
		eLQE	58.3	30					
		eLRN	02 04.5	24					
		ME	06 21	16			3		
		MZ	07 11	20				6	
		MN	07 17	18		4			
		F	03 10						
		231	" 20	ePNZ	08 55 17	5	-4		+6
ePPNEZ	56 23			10	-10		+5		
iSN	09 00 11			10	+12		+10		
eE	00 15			13					
eZ	00 46			24					
i(SSS)E	02 05			18			+10		
eLE	04.0			28					
eLZ	04.2			36					
ME1	06 13			18			29		
MZ1	06 55			20					
MN1	07 01			18	31		28		
ME2ME2	08 33			16			28		
MN2	08 55			16	26		24		
F	10 35								
231	" 20	e?Z	11 46 15						
		eE	50 49	9					
		eLN	53.7	20					
		MZ	55 41	20			7		
		ME	55 45	20					
		MN	56 41	14	6				
F	13 05								

(Continued on next sheet)

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

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
			h	m	s		AN	AE	AZ		
232	1945 June 20	iPZ	17	47	23	5	"	"	"	km. 8890 (80°0)	Compression. H 17 35 15
		iSE		57	23	9		-7			
		iSN		57	24	9	-5				
		iPSN		58	11	14	-7				
		eSSN	18	02	31	18					
		eLQN		08.6		26					
		eLRZ		12.6		24					
		ME1		15	39	16		4			
		MZ1		17	33	22			10		
		MN1		18	40	18	8				
		MZ2		20	38	20			10		
		MN2		21	40	18	8				
		ME2		25	39	20		7			
		F		19	40						
233	" 21	eZ	20	15	23	6					
		MN		22	31	12	2				
		MZ		23	55	16		3			
234	" 22	F	20	35							
		eLZ	01	48.7		20					
		MN		55	41	16	3				
235	" 22	ME		56	22	16		2			
		F	02	20							
		iPNZ	09	30	29	6	+5		-11	8750 (78°7)	Dilatation. h 0.015 H 09 18 40
ipPZ		30	59	5			-7				
eZ		32	58	12							
iPPN		33	21	10	+8						
SN		40	09	12							
iE		40	16	10		+13					
iScSN		40	37	8	-5						
iE		40	45	8		+9					
ME		41	15	13		9					
iZ		41	39	12			+16				
iZ		45	13	12			+10				
iSSN		45	21	17	+14						
iSSSN		48	32	13	+9						
iE		50	49	12		+8					
ME		51	08	15		6					
MZ		51	19	18			8				
MN		51	51	18	7						
eLZ		56.5		26							
ME	10	00	39	20		8					
MZ		03	13	22			13				
MN		03	19	22	8						
F		11	10								
236	" 22	ePZ	18	14	27					10,900ca (98°)ca	
		iSKKS _{NE}		25	42	9	-7	-6			
		eN		32	03	10					
		MN		32	33	12	3				
		eLQN		43.1		22					
		eLRN		47.4		26					
		MN1		56	04	22	6				
		MN2		57	44	18	6				
		ME		58	18	24		13			
		MZ		58	23	24			19		
		F	20	20							
		iE	20	49	37	8		-5			
		MZ	21	15	47	20			7		
		ME		16	29	20		6			
MN		17	34	20	8						
F	21	45									

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RIVERVIEW COLLEGE OBSERVATORY,

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks
			h	m	s		AN	AE	AZ		
238	1945 June 26	eN	06	53	19	12	"	"	"	Masked by micro-seisms and non-seismic disturbances.	
		MZ	07	03	01	21			11		
		ME		03	07	20		7			
		MN		03	17	20	10				
		F	07	20							
239	" 27	ePPPZ	13	29	37	12				Masked by micro-seisms.	
		ePPS		37	34	13					
		e(SS) _E		43	27	22					
		eLQN		54.5		24					
		eLRZ		59.4		40					
		MN ₁	14	00	42	28	25				
		MEZ ₁		01.2		22		20	32		
		MN ₂		04	15	20	11				
		MEZ ₂		10	35	18		16	20		
		F	16	10							
240	" 27	MZ	19	08.4							
241	" 28	e(L)Z	07	19.8		20					
		ME		30	38	18		6			
		MZ		30	47	16			5		
242	" 30	F	07	55						Masked by micro-seisms.	
		eSKSE	05	55	47						
		eN		57	12	14					
		eZ		58	41	15					
		eLQN	06	14.0		25					
		eLR _E		17.9		30					
		ME ₁		19	37	25		11			
		MZ ₁		20	19	25			17		
		MN ₁		26	55	20	8				
		MZ ₂		27	55	18			9		
		ME ₂		29	27	18		9			
		MN ₂		37	11	20	7				
F	08	10									

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

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\Phi = 33^{\circ} 49' 46''$ S.

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

h = 25m.

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 ₀	$\epsilon:1$	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^3	V _s
N	199	7.7	6.2	0.001	4	12.8	12.9	-0.02	470
E	220	7.8	6.1	0.022	4	12.3	12.9	-0.09	440
Z					4	11.9	11.8	-0.04	450

No.	Date	Phase	Time (G.M.T.)		Per s.	Amplitude			Δ km.	Remarks	
			h.	m. s.		A _N	A _E	A _Z			
<p>Unless stated otherwise, readings are from the Galitzins. Ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).</p>											
243	July 3	iZ	17	13 58	6	μ	μ	μ	km.	Masked by micro-seisms.	
		eN		19 06	10			+6			
		eN		24 15	16						
		eLE		29.1	20						
		MZ		31 33	16			4			
		ME		32 54	15		5				
244	" 6	MN		33 53	15	4				F 13h 15m	
		eE	21	09.9							
		MEZ		16.6	12		3	3			
		MN		19.1	13	5				MN from Wiechert.	
		F	21	30 ca							
245	" 10	eLZ	03	01.8	25						
		ME		04.0	20		6			F 03h 15m	
246	" 11	ME	01	29 03	18		4				
		MZ		30 49	18			4		F 01 40	
247	" 11	eE	07	26.0							
		MZ		28 41	16			2		F 07 35	
248	" 12	e(L)E	01	05.1	18						
		MN		08 45	11	2					
		ME		09 25	12		3			F 01 15	
249	" 15	iPZ	05	44 08	6			+17	5780ca	Compression. h 0.02 ca H 05 35 12	
		iPN		44 09	6	-7			52°ca		
		ipPZ		44 39	6			+10			
		iNZ		45 01	7	+11		-19			
		iPcPNZ		45 13	7	+14		-12			
		iSNE		51 18	10	-28		-41			
		iSSE		52 08	9			+25			
		iScSE		53 48	7			+57			
		iSSE		54 46	8			+14			
		iE		57 03	12			+33			
		ME	06	04 56	18			22			
		MN		06 35	16	13					F 07 25
250	" 15	eE	19	30.3							
		ME		37 39	13		4				
		MN		38 19	12	4					
		MZ		38 58	12			4		F 19 45	
251	" 16	eN	05	05.8						Masked by micro-seisms.	
		eLE		09.3	25						
		ME		15 34	18		6				
		MN		15 48	18	5					
		MZ		15 58	18			7			F 05 40

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	
			h	m	s		AN	AE	AZ		
252	1945 July 16	eN	18	04.5							Masked by microscisms. F 18 25
		ME		11 17	13		9				
		MN		11 49	16	5					
253	" 21	e?Z	13	57.2							Masked by heavy microscisms.
		F	14	10							
254	" 21	eZ	22	06.8							
		eLZ		11.5	22						
		ME		13 39	17		7				
		MN		13 45	16	10					
		MZ		13 53	20				13		
255	" 22	eLN	11	08.9	42						F 22 50 Earlier phases
		MN1		12 04	36	43					
		MN2		15 11	24	25					
		ME		18 08	24		17				
		MZ		18 13	24				18		
		F	Merged in No.256.								
256	" 22	eLE	11	41.5	24						
		MZ		42 49	22				12		
		ME		43 18	15		7				
		MN		43 45	20	11					F 12 30
257	" 23	ePZ	04	05 38						7300	H 03 54 55
		iPCPZ		06 05	9				+6	(65°7)	
		iSN		14 18	5	+14					
		iSE		14 20	5		-10				
		eLQE		22.8	26						
		eLRN		24.9	38						
		ME		27 33	32						
		MNE		30.3	22	54	53				
		MN		32 27	15	52	39				
		MZ		33 19	20				54		
		ME		34 57	18		58				
		MZ		35 03	20				61		
258	" 25	e(L)Z	06	22.5							
		MZ		24 14	14				3		
		ME		24 48	14		3				F 06 35
259	" 25	eLE	12	32.4	20						
		MNZ		34.1	17	4			4		
		ME		34 51	14		3				F 12 50
260	" 26	ePNE	18	40 40	1					8°5	H 18 38 36 *From Wiechert
		iSEZ		42 16	2		-3 ^x		-6		
		iN		42 19	2½	+3 ^x					
		iSSN		42 26	3	+3 ^x					
		eLNE		42 34	12						
		iSSSE		42 39	3		-2 ^x				
		MNE		42 51	12	8	4				
		MZ		43 43	8				4		
		F	18	55							
261	" 27	e?Z	20	03.0							
		eLE		08.5	22						
		MZ		12 16	12				5		
		MN		12 24	12	4					
		ME		12 50	12		6				F 21 00
262	" 30	eLZ	00	22.9	25						F 00 45
		MZ		27.0	18				3		
264	" 30	ME	07	34 28	16		3				F 07 40
		MN		34 30	8	2					
265	" 31	eLNZ	05	37.5	24						
		MNZ		40.0	18	5			5		
		F	06	00							
263	" 30	eLE	01	50.1	20						
		MZ		51 43	16				5		
		ME		51 49	14		3				
		MN		52 07	14	4					
		F	02	10							

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

 $\phi = 33^{\circ} 49' 46'' \text{ S.}$
 $\lambda = 151^{\circ} 9' 80'' \text{ E}$
 $h = 25\text{m.}$

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 ₀	s:1	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^2	V _s
N	193	7.7	5.6	0.007	4	12.8	12.9	-0.02	470
E	224	7.8	4.8	0.008	4	12.3	12.9	-0.09	440
Z					4	11.9	11.8	-0.04	450

No.	Date	Phase	Time (G.M.T.)		Per s.	Amplitude			Δ km.	Remarks	
			h.	m.		s.	A _N	A _E			A _Z
Unless stated otherwise, readings are from the Galitzins. Ground amplitudes are given. The amplitudes of initial impulses on the Galitzins are computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).											
266	1945 Aug. 1	i?Z	22	33	57	6	μ	μ	μ	km.	Masked by very heavy microseisms.
		MZ	23	05	35	20			+13		
		MN		05	41	20	ϵ		10		
267	" 3	eE	04	49	34	18					Masked by heavy microseisms.
		eLZ	05	10.1		25					
		ME		17	55	18		5			
		MZ		18	41	20			9		
268	" 5	eE	04	19.1							
		MNZ		22.5		16	3		3		
		F	04	35							
269	" 6	eZ	23	49.2		8					
		cLZ	00	01.4		18					
		MZ		06	21	16			3		
270	" 7	ePZ	22	18	22	8				7200	H 22 07 44
		iSN		26	59	8	-6			(64.8)	
		iSE		27	03	8		+6			
		cLN		36.9		22					
		MN		43	42	19	5				
		MZ1		44	25	20			7		
		MZ2		47	04	20			10		
		F	23	30	ca						
271	" 8	iPZ	10	05	02	6			+10	8080	Compression. H 09 53 36
		iPcPZ		05	19	6			-7	(72.7)	
		iSNE		14	25.4	6	+11	+4			
		iSN		14	39	7	+11				
		iPSN		14	59	12	+9				
		eN		22	43	16					
		cLRN		27.0		35					
		cLRZ		27.3		32					
		MN1		33	28	25	19				
		MZ		35	38	24			19		
		ME		35	54	14		13			
272	" 9	F	12	05							
		cLZ	02	30.8		21					
		MN		33	24	11	3				
273	" 9	F	02	40							
		cZ	22	00	27	12					
		MZ		25	46	16			3		

(Continued on next sheet)

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RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per s	Amplitude			Δ km.
			h	m	s		AN μ	AE μ	AZ μ	
274	1945 Aug. 10	e?Z	11	44.9					Masked by micro- seisms.	
		eZ		50.4						
		MZ	12	27.0	16			37		
275	" 11	F	12	40						
		eLZ	01	32.3	26					
276	" 12	MZ		35 37	22			8		
		F	02	00						
277	" 13	e(L)N	09	07.8	24					
		eLZ		13.4	20					
278	" 14	F	09	25						
		eE	12	49.2						
279	" 14	ME		52.6	?					
		F	13	00						
280	" 16	iPEZ	08	04 14	2		+3	+8		
		iEZ		07 33	3		-7	+4		
281	" 16	iN		10 47	6	+5				
		F	08	15						
		P?Z	12	21 29	9			+7		
		iZ		21 51						
		eSN		29 55		11	2			
		iN		30 08	6	+8				
		MN		45 00	24	14				
		ME		46 28	20		11			
		MZ		47 00	22			16		
		F	13	50						
282	" 16	e(S)E	00	25 57	14		2			
		eZ		26 02	11					
		eN		26 04	11	2				
		eLN		31.7	22					
		eLZ		33.3	30					
		MN		34 47	20	11				
		MZ		36 51	18			12		
		ME		37 05	18		12			
		F	01	35						
		eLNZ	02	19.5	33					
283	" 16	MNZ		28.0	20	4		4		
		F	02	40						
284	" 16	eL _E Z	14	32.4	19					
		MN		33 47	18	2				
285	" 16	F	14	40						
		iE	23	27 58	4		-2			
286	" 17	eLN		33.8	16					
		MN		34 55	14	4				
287	" 17	MZ		35 21	16			7		
		ME		35 33	16		4			
288	" 17	F	Merged in No. 284							
		MEZ	23	46.8	12		2	4		
289	" 17	MN		47 03	10	5				
		F	Merged in No. 285							
290	" 17	iPN	00	01 07	6	+7				
		iEZ		01 09	6		+7	-10		
		iNEZ		01 17	6	+8	+14	-14		
		iN		01 46	7	+8				
		iSN		04 54	8	+6				
		iSEZ		04 57	8		+12	+11		
		i(PcP)NE	05	09	7	-16	+20			
		mZ		05 13	9			11		
		i(SS)Z		05 25	8			-15		
		eLRZ		06.3	20					
291	" 17	ME	08	05	15		4			
		MZ	08	51	17			12		
292	" 18	MN	09	53	15	10				
		F	01	10						
293	" 18	ePZ	23	42 10	8					
		e(S)EZ		46 03	10					
294	" 18	MN		49 03	16	4				
		F	00	15						

 Compression.
 Deep focus.
 Microseisms pres-
 ent.

 i_E from Wiechert

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No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ		
							AN	AE	AZ			
287	1945 Aug. 19	eLN	h	m	s	s	μ	μ	μ	km.		
		MZ	22	05.3		20						
		MN		07	22	17						
		MN		07	45	16	2		3			
288	" 21	F	22	20								
		iPEZ	20	07	36	6		-5	-8	2560	Dilatation.	
		iEZ		07	41	10		-15	+29	(23°0)		
		PPZ		08	06	8			11			
		iSE		11	40	8		+21				
		iSN		11	41	8	-8				NS readings from the Wiechert.	
		iz		11	48	10			+41			
		mNE		11	54	8	22	24				
		iN		12	03	10	+21					
		iE		12	07	10		-72				
		iSSN		12	25	11	-25					
		iE		12	29	10		+49				
		eLRN		13.2		21						
		eLRE		13.3		20						
		MN		14	35	16	78					
		MZ		15	18	16			66			
		ME		15	38	15		71				
		iScSE		19	06	10		-70				
289	" 22	F	22	40								
		ePZ	05	08	54					2310	Preceded by microseisms	
		iSE		12	39	6		-10		(20°8)		
		iN		12	40	6	+14					
		iz		12	44	6			+9			
		i(PcP)Z		13	01	6			-6			
		iE		13	06	9		-9				
		eLQN		13.1		20						
		eLRZ		14.2		20						
		MN		15	29	15	7					
		MZ		16	10	16			7			
		ME		16	14	16		6				
290	" 22	F	Merged in No. 290									
		iPZ	05	19	22	8			-31	2340	Dilatation.	
		iPNE		19	23	8	+19	+11		(21°0)		
		iSN		23	09	10	-38					
		iE		23	14	8		-27				
		iz		23	18	10			+39			
		eLN		24.4		18						
		eLRZ		25.1		25						
		MN		26	06	15	31					
		MEZ		26	40	15		22	27			
291	" 22	F	07	25								
		i(S)NE	08	48	46	8	+5	+5				
		eLE		50.4		20						
		MN		51	00	16	3					
		MEZ		52.3		18		4	5			
292	" 23	F	09	15								
		P?Z	07	17	21							
		iSN		21	20	7	+5					
		iSE		21	21	7		+5				
		eLRZ		23.2		20						
		MN		25	26	14	3					
		MZ		27	46	14			3			
293	" 27	F	07	55								
		iPNEZ	01	22	05	4&8	+20	-12	+20	2060	Compression.	
		iz		23	12	6			-15	(18°5)		
		iSE		25	25	14?		+16?				
		iE		25	38	13		-53				
		iNZ		25	39	10	-14		-31			
		MN		26	13	11	24					
		eLRZ		26.3								
		ME		26	26	11		34				
		iPcPE		26	37	13			+48			
		MN		26	39	12	26					
		ME		26	51	11		40				
		MZ		27	40	14						

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No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	
			h	m	s		AN	AE	AZ		
294	1945 Aug.27	MEZ	05	35.5		14	μ	μ	μ	km.	
		F	05	40				3	4		A few waves.
295	" 27	iPZ	07	44	19	5			+11		Compression. Large micro-seisms present.
		iN		44	21	6	+7				
		i(S)E		52	07						
		iN		52	54	5	+7				
		iE		54	39	6		+8			
		eLNZ	08	02.7		30					
		MN		04	03	26	14				
		MZ		04	23	28			24		
		ME		04	35	20					
		F	08	30				7			
296	" 28	iPNEZ	12	55	22	5	+2	+2	-6	2780ca Dilatation. (25°ca) h 0.015 ca.	
		ipPEZ		55	47	5		+4	-10		
		ipPN		55	48	5	+4				
		iSE		59	34	6&12		+6			
		iNE		59	45	8	+7	+6			
		iN		59	53	7	+11				
		iz	13	00	07	9			+7		
		i(sS)E		00	13	8		-13			
		iN		00	25	12	-12				
		i(SS)E		00	47	9		+16			
		eLNZ		01.7		28					
		eLE		01.8		28					
		MZ		02	49	24			22		
		ME		02	55	21		12			
		MN		03	19	17	13				
		F	14	00							
297	" 28	e?Z	19	32.3							
		ez		33.1							
		e(S)N		41	17	12					
		e(S)E		41	18	15					
		eN		46	03	18					
		eLE		51.1		35					
		ME		53	45	24		12			
		MZ		55	33	40			49		
		MN		55	39	25	12				
		F	20	50							
298	" 29	iPNEZ	10	28	03	6	+27	+19	-48	2870 Dilatation. (25°8) h 0.01ca. H 10 22 40	
		ipPNE		28	24	6	-97	-90			
		ipPN		28	47	6	+18				
		ipPPE		28	59	6		-41			
		iN		29	07	6	+41				
		iE		29	10	6		-32			
		iN		30	10	7	+44				
		i(PcP)N		31	23	7	-23				
		iSN		32	23	7	-48				
		iN		32	50	9	+138				
		iE		32	54	10		-188			
		mNE		33	16	11	330	265			
		eLE		33.5		21					
		MN1		34	18	17	875				
		ME1		35	26	19		570			
		MN2		36	22	17	940				
		ME2		37	03	1		490			
		iScSE		38	55	8		-58			
		iScSN		39	00	10	-180				
		MN3		39	23	13	580				
		F	Merged in No.299.								
299	" 29	iN	12	58	29	8	-7			Masked by No.298	
		F	Merged in No.300.								
300	" 29	iN	13	06	30	10	+9			Masked by No.299	
		eL?Z		10.0		26					
		F	Merged in No.301.								

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					AN	AE	AZ		
301	1945 Aug.29	iEZ	h m s 13 21 02	s 7	μ	μ	μ	km.	Masked by No.300
		eLZ	21.6	20		-8	+11		
		MZ	24 08	20			10		
		ME	24 24	20		7			
		F	Merged in No.302.						
302	" 29	eLZ	13 40.4	27				Masked by No.301	
		MZ	42 24	20		7			
		F	Merged in No.303.						
303	" 29	eLZ	13 49.9	24				Masked by No.302	
		MZ	53 36	20		8			
		F	14 20						
304	" 29	eLZ	14 53.8	20					
		ME	58 24	17		3			
		F	Merged in No.305.						
305	" 29	i(P)NE	15 20 54	8	-4	-4			
		iZ	21 02	8			+6		
		eLE	30.1	28					
		MN	31 52	20	13				
		ME	31 57	22		13			
		MZ	32 02	22			16		
		F	17 05						
		eLE	05 04.7	20					
306	" 30	MN	05 49	16	3				
		MZ	05 58	16			3		
		ME	06 02	16		2			
307	" 30	F	05 30						
		eLZ	06 44.2	16					
308	" 30	F	07 00						
		eLZ	10 35.1	18					
309	" 30	F	10 45						
		e(P)N	23 36 51						
310	" 31	eE	37 58					eP from Wiechert.	
		iSNE	42 07	10	+17	+14			
		iN	44 35	10	+24				
		eLN	44.8	20					
		eLE	45.2	23					
		MN	48 25	12	51				
		ME	50 37	16		17			
		MZ	50 41	18			22		
		F	01 10						
		iN	10 01 04	9	+6				
311	" 31	MN	05 01	13	3			Masked by heavy microseisms.	
		F	10 10						
311	" 31	eLZ	23 46.3	22					
		MZ	48 16	18			4		
		ME	51 18	16		3			
		F	00 10						

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

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S.

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

h = 25m.

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 ₀	$\epsilon:1$	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^2	V _s	
N	1	203	7.7	7.1	0.004	4	12.8	12.9	-0.02	470
	8	145	9.3	7.3	0.026					
E	1	229	7.3	5.2	0.006	4	12.3	12.9	-0.09	440
	3	136	10.1	7.1	0.016					
Z	2					4	11.9	11.8	-0.04	450

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _N	A _E	A _Z		
<p>Unless stated otherwise, readings are from the Galitzins. Ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).</p>											
312	1945 Sept. 1	iPNEZ	22	48	10	5	-29	+19	-26	1950	Dilatation
		ipPNEZ	48	17		8	+110	-71	+94	(17:5)	H 22 44 07
		iPPNE	48	27		14	-260	+162			
		iPPPZ	48	33		14			+186		
		iN	51	08		13	+77				After i _g , NS & EW
		iE	51	15		13		-100			readings from Wiech-
		iSE	51	22		16		+440			ert. Galitzins in-
		iSN	51	22	4	16	+300				decipherable.
		iSSNZ	51	40		14	+550ca		-370		Wiechert out of comm-
		LZ	52	3		16					ission from 22h 53m
		ME	52	19		13		880ca			to 22h 59m.
		MN	52	22		13	1000ca				
"	2	F	04	00							
313	"	2	cLZ	12	58.2	25					
			F	13	10						
314	"	2	MZ	17	23	17			3		
			F	17	30						
315	"	4	c(S)E	15	55	28					
			cN	55	31	12					
			iN	55	48	12	+7				
			ME	56	06	14		7			
			MN	56	20	14	5				
			F	16	15						
316	"	4	iPZ	17	18	06	8		+6	1950ca	Compression.
			PNE	18	09	8	3	3		(17:5ca)	
			ipPZ	18	16	8			+8		
			iSE	21	16	13		+18			
			iSN	21	19	13	+13				
			iE	21	24	14		-63			
			iSSN	21	36	14	+90				
			ME	22	10	13		67			
			cLRZ	22	3	22					
			MN	22	20	12	54				
			MZ	23	50	20			28		
			F	18	55						
317	"	5	cZ	15	49.3						
			iN	55	18	6	+4				
			cLZ	59	4	32					
			MN	16	00	49	3				
			MZ	00	59	18			4		
			ME	01	49	13		2			
			F	16	15						

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
							AN	AE	AZ		
318	1945 Sept.5	iPNZ	h	m	s	s	μ	μ	μ	km. 3250 (29°2)	Dilatation. h 0.005 H 21 48 43
		ipPNZ	21	54	40	4&8	+4		-8		
		mN		54	58	4&8	+13		-20		
		iN		55	54	15	10				
		iZ		58	29	7	-16				
		iSN		59	16	8			+12		
		i(sS)N		59	26	12	-27				
				59	47	20	-143				
		mN	22	00	17	21	103				
		eLZ		03.3	22						
		ME		05 29	13			57			
		MZ		05 39	16				83		
		MN		06 03	19		100				
		F									
319	" 6	e(S)N	01	37	08	16				Readings from the Mainka.	
		eE		37	26	?					
		eLE		38.8	21						
		ME		42 16	17			23			
		MN		43 00	17		24				
320	" 6	F	Merged in No.320								
		e(S)N	03	45	51	15	4				
		eLZ		48.7	25						
		ME		50 44	18			5			
		MN		51 29	18		6				
321	" 6	MZ		51	39	18			7		
		F	04	20							
		eN	11	39	29	24					
		ME		44 43	18			6			
		MZ		45 01	18				7		
322	" 6	MN		45	21	18			5		
		F	12	00							
		ePNZ	14	55	31	10				3110	
		i(pP)NZ		55	41	10	-4		+10	(28°0)	
		iNZ		56	09	7	+8		-11		
		iPPNZ		56	23	7	-14		+12		
		iSN	15	00	11	13					
		i(sS)NZ		00	38	14	+119		-63		
		eLE		03.3	24						
		eLNZ		03.7	28						
323	" 7	MNE		06	01	19		92	87		
		MZ		06	16	19				120	
		F	16	40							
		iN	06	16	00	7	+4				
		iZ		16	02	7				+6	
		iN		17	34	10	+7				
		iN		20	17	7	-5				
		iNE		20	50	9	-13		-12		
		iE		21	57	8			+14		
		eLE		24.6	18						
324	" 7	MZ		26	15	12				5	
		MNE		26.3	12		18		17		
		F	07	05							
		eN	13	10	36						
		eLZ		14.4	28						
		MN		15 22	24		11				
		MZ		15 42	24				14		
		ME		16 58	14				12		
		iPZ	03	38	17	8			+9		
		iN		38	25	8	+9				
325	" 8	i(pP)N		38	37	7	+9			3020	F 13 50 Compression. h 0.01 Preceded by large microseisms
		iPPN		38	37	7	+9			(27°2)	
		iPPPZ		39	02	12	+9				
		iPPZ		39	15	8				+6	
		iSE		42	47	9			-35		
		eLNZ		44.0	27						
		MNZ		45.3	20		51			50	
		ME		45 33	16				25		
		iScSE		48 49	8				+22		
		F	05	00							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks			
					AN	AE	AZ					
326	1945 Sept. 9	iPNEZ	04 07 51	4	K +7	K +4	K -12	2700 (24°3)	Dilatation. h 0.01 H 04 02 42			
		iNEZ	07 55	4	+16	+19	-32					
		mZ	08 00	7			33					
		ipPE	08 11	10		-47ca						
		inZ	09 45	6	-31		+30					
		in	10 10	7	+51							
		iSE	12 01	8		-48						
		iSN	12 04	8	-130ca							
		iE	12 05	8		+180						
		iSSE	13 00	9		-133						
		in	13 09	10	-190							
		eLNE	14.0	24								
		MN1	14 46	14	150							
		MZ1	14 57	14			94					
		ME1	15 24	14		140						
		MN2	16 07	12	170ca							
		ME2	17 34	14		170						
		MZ2	18 15	14			115ca					
		327	" 9	eLEZ	09 31.0	20						F 07 20
		328	" 9	MN	33 19	13	4					
eEZ	10 06.5			15								
329	" 9	F	10 15									
		e(P)Z	16 18 41									
330	" 10	iSNE	22 43	8	+10	+6						
		iSSZ	23 26	8			-6					
		eLEZ	24.6	20								
		MEZ	25.4	20		7	10					
		MN	25 33	20	6				F 16 50			
		eE	08 11 01	10								
331	" 10	eLE	13.3	16								
		ME	14 39	12		2			F 08 20			
332	" 11	eL	14 15.2									
		F	04 20									
333	" 11	eLZ	09 29.0	20								
		xF	09 40									
334	" 11	ipZ	18 02 56	8			+6	2550 (22°9)	Compression.			
		ipNE	02 57	4	+2	+2						
		ippZ	03 32	8			+6					
		iSE	07 00									
		iSNE	07 02	9	+15	-9						
		iE	07 36	10		+9						
		eLEZ	09.0	25								
		ME	10 01	18		8						
		MN	10 08	17	8							
		MZ	10 20	20			14					
335	" 12	iz	18 18 08	6			-5		F merged in 334			
		iSE	20 34	6		+5						
336	" 12	iE	23 25	6		-4			F 19 40			
		eLZ	02 01.2	20								
337	" 12	MZ	06.4	18			4		F 02 10			
		eE	08 42.4									
338	" 12	F	08 50									
		iSN	20 03 17	10	+4							
		iE	03 28	10		+4						
		eLZ	05.8	22								
339	" 13	MZ	07 08	18			2		F 20 20			
		ez	21 26.2									
		eLNZ	30.3	20								
339	" 13	MEZ	31.6	17		4	4					
		F	21 55									
339	" 13	eLZ	09 43.0	20								
		F	10 00									

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.		
			h	m	s		AN	AE	AZ			
340	1945 Sept. 13	i (pPP)ZL1	35	44		4	μ	μ	μ	-6		
		iSKKSN	42	13		8	-13					
		iSKKSE	42	15		8		-12				
		iPSZ	44	20		12				+8		
		iz	44	47		12				+11		
		iSSE	49	46		9		+7				
		iSSPZ	49	58		11				+8		
		iE	50	30		10		+13				
		eLRN	12	04.4		30						
		eLR _{EZ}		04.6		30						
		MZ		11	42		16				4	
		MNE		13.1		16		2	2			
		341	" 13	F	13	40						
iPNZ	21			45	37	5	-4			+7	2660 (23°9) Compression. h 0.01 ca.	
i (pP)Z	45			54		5				+6		
i (pP)NE	45			55		5	+4	+7				
eZ	46			31		7						
iz	47			54		7				+7		
iSNE	49			43		8	+15	-25				
iz	49			53		8				-11		
iN	50			24		10	+12					
eLRN				51.3		21						
eLZ				52.1		22						
MNE				52	24		18	15	12			
MZ				53	18		18					13
MN ₂		53	58		12	15						
342	" 14	F	22	55								
		eN	02	46.6		16						
		eLN	03	17.1		30?						
		eLZ		17.3		30						
		MZ		23	16		25				14	
		ME		23	23		20		6			
		MN		23	51		20	8				
343	" 15	F	04	10								
		eP?Z	06	29	26	5						
		eN		29	30							
		i (S)N		33	32		10	+9				
		iE		33	36		9		+8			
		eLZ		35.2		24						
		MN		36	26		18	8				
344	" 17	ME		36	36		19		6			
		MZ		36	51		19				8	
		F	07	05								
		eLZ	14	40.5		20						
345	" 19	MZ		42	36		16				4	
		ME		43	28		16		4			
		F	15	00								
		iPZ	12	39	46	5				-6	8540 (76°8) Dilatation. H 12 27 57	
ipPz		39	59		5			-5				
iSN		49	29		7	-5						
ePSZ		50	14		11							
345	" 19	eLRZ	13	03.9		25						
		ME		05	49		24		9			
		MZ		06	13		22				9	
		MN		06	20		22	6				
		F	14	00								

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			A	
							A _N	A _E	A _Z		
346	1945 Sept.22	ePZ	h	m	s	s	μ	μ	μ	km.	
		ipPNZ	09	16	10	8				3650	H 09 09 38
		ippNZ		16	16	8	+5			(32:8)	
		ippPNZ		17	19	9	+24				
		ippPN		17	34	8	+18				
		iSNE		21	21	10	-53				
		iE		22	03	10					
		iE		23	00	10					
		iSSE		23	21	10					
		iN		23	32	7	+26				
		iE		23	46	6					
		mN		23	55	12	30				
		eLE		24.	2	28					
		eLZ		25.	1	28					
		ME1		27	01	20				107	
		MN1		27	54	18	79				
		MZ1		28	32	20				108	
		ME2		28	50	14				120	
		MN2		28	56	15	127				
		ME3		30	46	14				160ca	
		MN3MZ2		33	0	13	87			83	F 11 40
347	" 23	eN	11	54.	1						F 12 05
		MN		56.	8	13	2				
348	" 23	eZ	16	06.	0	18					F 17 00
		eLE		12.	8	25					
		MZ		21.	3	18				3	
349	" 24	iPZ	12	40	48	4&8				+6	3060
		iPN		40	50	4&8	+5			(27:5)	h 0.01 probably.
		i (pP)Z		41	07	4&8					
		iSN		45	20	8	+8				
		iE		45	25	8				+8	
		iE		45	38	7				-6	
		iN		45	45	10	+13				
		iE		45	55	8				-9	
		iE		46	10	7				-12	
		iN		46	14	8	-19				
		iE		47	17	12				-18	
		eLZ		48.	0	34					
		iE		48	13	7				+29	
		MZ		49	18	24					22
		ME		50	09	12				13	
		MN		51	25	13	13				
350	" 26	e(L)Z	18	01.	2						F 14 05
351	" 27	eLZ	10	11.	6						A few waves masked by large micros.
352	" 27	eLZ	23	25.	4	20				7	A few waves masked by microseisms.
		MZ		29.	1	20					
		ME		29.	2	20				8	
		MN		29.	3	15	9				F 00 15
353	" 28	eLZ	11	20.	9	20					F 11 35
		MN		26.	5	12	2				
354	" 28	eLZ	18	43.	1	20					F 19 00
		MN		48.	6	14	3				
355	" 28	eLQ _N	23	08.	7	24					
		eLRZ		13.	7	26					
		MZ		17	51	20				6	
		ME		19	14	20				4	
		F	00	10							
356	" 29	eLEZ	05	02.	3	24					
		MZ		03	26	17				6	
		F	05	15							
357	" 29	eLZ	14	48.	8	25					
		MN		49	36	20	6				
		ME		51	38	20				5	
		MZ		52	10	20					7
		F	15	10							

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S.

$\lambda = 151^{\circ} 9' 30''$ 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 ₀	e:l	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^3	V _s	
N	1 3	208	7.8	5.8	0.002	4	12.8	12.9	-0.02	470
E	1 3	219	7.2	4.1	0.010	4	12.3	12.9	-0.09	440
Z	2					4	11.9	11.8	-0.04	450

No.	Date	Phase	Time (G.M.T.)		Per s.	Amplitude			Δ km.	Remarks
			h.	m.		s.	A _N	A _E		
<p>Unless stated otherwise, readings are from the Galitzins. Ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).</p>										
358	1945 Oct. 1	eE MZ F	02	35.8	8	/"	/"	/"	km.	
359	" 1	eLZ MEZ F	06	14.5	25		7	5		
360	" 1	eE MEZ MN F	18	20.7	17	3	2	4		
361	" 2	eLNZ MNZ F	12	38.8	20	2		2		
362	" 3	e(P)Z e(S)N eLN MNE MZ F	18	00 22						
				06 02						
				10.0	26					
				12 50	14	11	9			
				14 11	17			6		
363	" 5	eN e(L)Z MENZ F	03	37.4	18	1	1	2		
364	" 5	eN eLN MNE F	15	33.3	14					
				37.1	24					
				38.6	16	4	3			
365	" 6	iPNZ iSN e(L)N ME1 ME2 MZ MN F	09	19 16	4	+5		-9	3780 (3490)	Dilatation.
				24 38	10	-5				
				29.4	?					
				31 33	15		32			
				33 47	18		43			
				34 04	12			27		
				34 08	12	27				
366	" 6	eN eLZ MN MZ ME F	22	11 15						
				13.1	25					
				15 24	14	4				
				15 52	15			6		
				16 10	15	$\frac{3}{4}$	6			
				22 50						

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RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
			h	m	s		AN	AE	AZ		
367	1945 Oct. 7	e(PS)Z	13	53	52	16				km.	
		eLRZ	14	19	9	28					
		MZ1		25	22	20			5		
		ME		30	16	18		3			
		MZ2		30	32	18			4		
		F	15	10							
368	" 9	iPZ	14	48	26	5			+6	8790 (79°1)	Compression. h 0.01 H 14 36 31
		iZ		48	30	5			+18		
		iN		48	32	5	-7				
		iPNZ		48	43	6	-6		+19		
		iPPZ		51	33	10			+8		
		iSE		58	16	11		+20			
		iSN		58	18	11	+12				
		i(ScS)N		58	39	11	-22				
		iE		58	48	9		+11			
		iSSN		59	00	10	+9				
		iPSN		59	09	10	-13				
		iEZ	15	09	04	13		+22	+13		
		eLN		13.0		33					
		ME1		13	28	19		16			
		MZ1		14	41	30			65		
		MN1		14	50	24	29				
		ME2		17	17	22		16			
		MZ2		17	30	24			33		
		MN2		17	35	24	26				
		F	16	25							
369	" 9	iZ	22	55	37	8			+6		
		iNEZ		59	22	7	+7	+8	+5		
		iN		59	31	8	+8				
		iE		59	42	7		+10			
		eLE	23	01.1		28					
370	" 11	MZ		02	33	22			6		Large micro- seisms.
		F	23	15							
		eN	09	08.7							
		eLE		13.5		26		6			
371	" 12	ME		14	47	16					Very large microseisms. Dilatation. H 04 07 05
		MNZ		15	31	16	6		4		
		F	09	30							
372	" 14	eL	18	37.0						4270 (38°4)	
		F	18	55							
		iPZ	04	14	25	6			-6		
		iPE		14	27	6			-4		
		iPPE		15	52	6			+4		
		iZ		15	56	6			+5		
		iE		16	47	6			+5		
		iSNE		20	18	7	+6	+9			
		iSSE		20	34	7		+5			
		ez		23	07	16					
		e(SSS)N		23	23	16					
		eLZ		24.9		26					
		ME1		26	13	20		77			
		MZ1		26	34	20			8		
		MN		27	19	14	4				
		ME2		29	57	15		5			
		MZ2		31	08	18			8		
		F	05	10							

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	Remarks
			h	m	s		AN	AE	AZ		
373	1945 Oct. 16	iPZ	16	10	50	5	μ	μ	μ	4670 (42°0)	Compression. h 0.01 H 16 03 07
		iPNE		10	52	5	+8	-5			
		ipPNEZ		11	08	5	+15	-10	-20		
		mNEZ		11	28	14	12	9	20		
		iPPN		12	32	8	+9				
		iPPE		12	35	8		+8			
		iPcPNZ		12	49	9	+29		-41		
		mE		12	57	9		9			
		iSNE		17	01	8	+19	-13			
		iNE		17	06	8	-75	+48			
		eE		17	24	16					
		iSSN		17	41	9	+61				
		iE		17	46	9		+61			
		iSSN		20	02	10	+40				
		iE		20	14	9		-47			
		iE		20	29	12		-83			
		mN		20	31	12	29				
		iz		20	36	14			+56		
		iScSE		20	44	12		-116			
		iSSSN		20	58	8	+43				
		eLZ		24	2	40					
		eLN		24	4	40					
		MZ1		25	49	30			146		
		MN1		25	57	24	108				
		ME1		26	45	22		73			
		ME2		28	05	22		81			
		MZ2		28	31	22			96		
MN2		28	39	22	104						
374	" 19	eE	06	23	57					F 19 10	
		eZ		26	34						
		MN		33	45	15	1				
375	" 20	MZ		35	31	15		2		F 06 50	
		ME		35	43	15		2			
		iz	12	27	24	4			+3		
376	" 20	eNE		33	6	10				F 12 50	
		eN		35	18	7					
		iN		38	17	4	-3				
		MN		40	08	7	2				
		ME		41	11	7		1			
377	" 21	eLE	14	47	8	14				F 14 55 H 03 21.0	
		MNE		48	7	14	1	1			
378	" 22	ePNZ	03	31	39	5			7220 (65°0)	F 05 35	
		eSNE		40	17	12					
		iNE		40	28	7	+4	+3			
		eE		41	45	10					
		e(L)N		49	7	18					
		MN1		56	35	20	9		6		
		MZ1		57	12	20					
		ME1		58	04	20		9			
		M2NEZ	04	02	2	18	7	10	9		
		eE	07	37	4						
379	" 22	eLN		38	8	16				F 07 50	
		MZ		41	3	13		2			
		MN		41	4	13	1				
380	" 24	ME	14	42	5	12		2		F 07 50	
		F	14	50							
380	" 24	eZ	02	29	2						
		eE		29	5						
		eN		34	11						
		eLZ		36	1	20					
		MN		37	25	18	4				
		MZ		57	34	20			6		
		ME		37	39	20		5			
F	13	30									

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ km.	Remarks
							AN μ	AE μ	AZ μ		
381	1945 Oct.24	eN	09	15	10						
		eLN			16.7						
		MN		18	06						
		MZ		19	17		2				
		F	09	30					1		
382	" 25	eL	01	38.0							
		F	01	50							
383	" 25	eZ	03	06.3							
		eE		06.4							
		eE		11 06	10						
		iN		11 52	12	+5					
		MN		14 46	18	7					
		ME		15 17	18			5			
		MZ		15 45	18				9		
		F	04	15							
384	" 25	eN	10	20	51	3					
		eE		21	11	4					
		eLZ		23.1		18					
		ME		24 22	14			1			
		MZ		24 34	14				6		
		MN		24 41	14		5				
		F	10	35							
385	" 25	iPZ	15	11	51	10					
		ePN		11	51	10					
		eZ		15	07	8					
		eN		15	10	8					
		iSKSN		22	22	10	+6				
		iSE		22	52	10		+6			
		iScSN		22	57	10	+10				
		ME		23	07	12			4		
		eN		23	59	14					
		iN		25	57	11	+8				
		eN		28	36	16					
		eLQE		37.7		36					
		eLRZ		41.1		40					
		ME1MZ1		45 00	24			11	22		
		MN1		45 04	24		17				
		MN2		49 21	18		12				
		MZ2		49 54	20				17		
		ME2		50 01	20			11			
		eW2Z	17	17.2	28						
		eW2N		17.5	28						
MNZ		21.5	20		2		2				
F	17	50									
386	" 26	eLZ	09	43.7		20					
		F	09	55							
387	" 26	eZ	14	19.2							
		eE		36.9		12					
		e(LQ)N		51.3		22					
		eLE	15	01.6		30					
		ME1		08 18	26			8			
		MZ1		08 22	26				10		
		MN		09 48	22		6				
		ME2		11 42	19			7			
		MZ2		11 50	20				9		
		F	16	10							
388	" 26	eN	23	35	24						
		eLN		38.5		21					
		ME		39 44	16			6			
		MN		40 11	15		5				
		F	00	40							

 Dilatation.
 H 14 58 40

 Readings from
 the Wiechert.

(Concluded on next sheet)



RIVERVIEW COLLEGE OBSERVATORY,
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No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
			h	m	s		AN	AE	AZ		
389	1945 Oct. 27	iPPZ	11	44	44	6	μ	μ	μ	13,450ca (121°ca) h 0.02 ca.	
		iz		45	30	6			-3		
		eSKSE		49	51	8			-3		
		iSKSE		49	55	8					
		iSKKSN		51	22	8	+4		-8		
		iSKKSE		51	26	8		+12			
		iPSE		54	26	9		+7			
		iPSZ		54	29	10			+22		
		iPPSE		56	02	10		+8			
		eSSN	12	00	59	16					
		ine		01	12	12	+9	-9			
		ee		04	38	12		4			
		ee		05	57	16		3			
		ME		31	04	16		2			
		MZ		31	32	16			2		
MN		31	43	16	1						
F	13	15									
390	" 28	ez	00	59.1							
		eLZ	01	12.4	24						
		MZ		18	50	20			3		
		ME		19	06	20			2		
391	" 28	F	01	45							
		ME	05	29	00	16		4			
		MNZ		29	08	19	6		2		
392	" 28	F	Merged in No. 392								
		iPNEZ	05	42	56	6	-8	-4	+17	2870 (25.8) Compression. h 0.03 H 05 37 44	
		iPNEZ		43	40	6	+11	+8	-16		
		iPPNEZ		43	52	6	-13	-12	+32		
		iSN		47	07	8	-22				
		iN		47	22	7	+24				
		iN		46	50	8	+17				
		ine		48	10	8	+34	-14			
		ie		48	21	6		+22			
		isSN		48	25	10	+24				
		isSE		48	37	10		+41			
		iN		48	48	12	-53				
		eLZ		49.9		18					
		MN		52	01	12	12				
		ME		54	29	12		10			
F	07	20									
393	" 29	en	05	10	53				Readings from Wiechert.		
		eLN		12.8	15						
		MN		14	33	16	11				
		ME		17	51	16		10			
394	" 30	F	05	30							
		e(P)Z	01	13	40	6					
		e(S)N		18	18	12					
		iz		19	58	10			+5		
		eLZ		21.7	30						
		ME		23	08	20		9			
		MZ		23	28	26			15		
		MN		23	34	22	10				
395	" 30	F	02	05							
		e(L)N	07	53.5	16						
396	" 31	MN		55	34	14	2				
		F	08	05							
		ez	07	33	27						
		ie		34	28	5		+4			
		iz		34	31	6			+4		
		ine		35	06	6	+3	+4			
		MZ		38	14	14			4		
		MN		38	18	14	3				
		ME		38	25	14		3			
		F	07	50							

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

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S.

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

h = 25m.

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 ₀	$\epsilon:1$	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^3	V _s	
N	1	201	7.9	6.0	0.002	4	12.2	12.2	-0.01	457
E	1	224	7.2	4.4	0.009	4	12.3	12.2	-0.02	490
Z	2					4	11.9	12.0	+0.02	466

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _N	A _E	A _Z		
<p>Unless stated otherwise, readings are from the Galitzins. Ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jaffreys and Bullen (1940).</p>											
	1945		h	m	s	s	"	"	"	km.	
397	Nov. 2	eLZ	08	46.3		24					
		F	08	55							
398	" 2	iPZ	19	05 05		3					
		iPNEZ	05	07		4	+3	-2	+3	4170 (37.5)	Dilatation. H 18 57 53
		iSE	10	51		10		+10			
		iSN	10	52		7	+3				
		iSSN	13	29		10	+9				
		iE	13	31		7		+12			
		iScSNEZ	15	15		7	+4	+5	-8		
		eLE	17.4			20					
		MN	17	53		14	11				
		ME	18	35		10		10			
		MZ	23	44		12			11		F 20 30
399	" 3	i(S)E	22	35 06		6		-4			
		iN	35	14		5	+5				
		e(SS)E	42	18		10					
		MZ	23	03 50		20			4		
		MN	04	54		18	2				
		ME	06	09		18		3			F 23 30
400	" 6	eE	18	29 23		9					
		eLE	37.8			20					
		MNZ	42.8			15	1		1		F 18 50
401	" 6	eN	19	51 19		8					
		eZ	51	22		8					
		e(S)NE	55	41		12					
		MNE	20	03.9		16	3	3			
		MZ	04	14		22			4		F 20 30
402	" 7	eN	08	08 28		8					
		eZ	11	47		8					
		eLE	16.8			20					
		eLZ	17.8			20					
		MEZ	21.9			16		7	7		
		MN	21	58		16	6				F 09 00
403	" 8	e?N	07	46.7							
		eE	47	51		8					
		MZ	52	53		14			1		
		MNE	53.8			14	1	1			F 08 15
404	" 8	eLZ	10	14.0		24					
		MZ	25.1			18			1		
		F	Merged in No 405.								

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

NO.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	Remarks
							AN	AE	AZ		
	1945		h	m	s	s	μ	μ	μ		
405	Nov. 8	eLZ	11	11.2		24					
		F	11	40							
406	" 9	e(L)Z	20	15.4		18					Very heavy microseisms.
		F	20	30							
407	" 10	eZ	17	47.9							
		eLN		55.4		18					
		MZ		57 40		16			4		
		MN		57 52		17	3				
		ME		58 05		16		3			F 18 25
408	" 10	eZ	19	08.5							
		eE		08.6							
		eLN		15.9		22					
		eLZ		17.5		22					
		ME		19 40		16		3			
		MZ		19 51		18			4		
		MN		20 22		13	2				F 19 40
409	" 10	eZ	20	57.2							
		eN	21	01 14		10					
		iNE		01 53		6	-5	-6			
		iE		02 29		9		-3			
		MN		06 21		14	4				
		MZ		07 31		14			3		
		ME		09 52		12		5			F 21 50
410	" 10	eE	22	19.2		8					
		eE		23.5		14					
		eLN		25.9		22					
		eLZ		28.1		24					
		MN		29 29		14	4				
		MEZ		31.8		16		5			
411	" 10	MN	23	11 10		12	7		5		F merged in No.411 From Wiechert.
412	" 11	i(P)Z	09	28 18		10			+8		Masked by very large microseisms
		e(S)N		32 38		12					
		iN		32 51		14	+15				
		iN		33 17		16	+45				
		mZ		33 29		18			39		
		eLZ		36.5		26					
		ME		38 43		18		27			
		MZ		39 18		18			38		
		MN		39 22		18	31				
413	" 12	eE	21	14.3							
		eLE		19.0		20					
414	" 13	MEZ		21.6		16		2	2		F 21 30
		eLE	07	56.0		20					
		eLZ		58.3		24					
415	" 13	MZ	08	04 42		18			4		F 08 15
		eLZ	19	51.8		20					
		ME		53 50		17		2			
		MZ		54 01		16			2		
416	" 15	iPZ	01	41 06		5			+5	3060	F 20 05 Compression. H 01 35 21 NS readings from the Wiechert.
		iPPZ		41 58		5			+5	(27°5)	
		eSN		45 43		8					
		iSE		45 45		9		+4			
		iE		46 14		9		+4			
		eLN		47.4		18					
		eLZ		47.6		18					
		MN		50 04		14	11				
		MEZ		51.3		14		4	3		
417	" 15	e?E	12	45.1							
		eLE		52.7		18					
		ME	13	00 11		18		2			
		MZ		00 20		18			3		F 13 10
418	" 16	ME	19	00 10		14		1			F 19 15
		MZ		04 21		16			1		
419	" 16	e(S)E	21	03 20		10					
		eLE		05.4		22					
		ME		07 02		14		8			
		MNZ		08 00		14	2		2		F21 40

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude			Δ	Remarks
					AN	AE	AZ		
			h m s	s	μ	μ	μ	km.	
420	1945 Nov. 19	eE	19 53.5						
		F	20 05						
421	" 20	eLZ	12 35.2	20					
		F	12 45						
422	" 21	eE	04 51 24						
		eLZ	55.0	26					F 05 15
423	" 21	eLE	15 27.6	18					
		MZ	30 53	18			4		F 15 50
424	" 22	e(P)E	06 41 17						
		e(S)E	45 37						
		eLZ	48.2	18					
		eLE	48.3	24					
		MNEZ	50.5	18					
425	" 22	eE	13 12 57		1	2	3		F 07 35
		MEZ	22.5	13		1	1		F 13 30
426	" 22	iPEZ	20 58 03	5				4270	
		iPPEZ	59 28	5		+2	+3	(38°4)	H 20 50 43
		iPPN	59 30	5	+1				NS readings from
		iEZ	59 39	8		+2	+4		the Wiechert.
		iSN	21 03 55	8	+4				
		iSE	03 58	8		-5			
		eSSZ	06 31	14					
		iZ	06 46	12			+8		
		eLE	09.5	28					
		eLZ	09.6	28					
		ME	14 27	20		25			
		MNZ	15.4	20	45		29		F 22 35
427	" 23	ePZ	04 55 12	6				2870	
		eSE	59 37	10				(25°8)	H 04 49 32
		eLRZ	05 01.6	28					
		ME	02 21	24		4			
		MZ	03 07	24			5		F 05 50
428	" 23	eLZ	13 24.5						
		F	13 40						
429	" 23	ME	19 37 25	11		1			
		F	19 45						
430	" 24	eLE	02 31.8	18					
		MEZ	35.3	16		3	3		F 03 20
431	" 24	eE	14 34 50						
		F	14 55						
432	" 26	iPNEZ	05 18 21	4	+2	+4	-14	3160	Dilatation.
		ipPZ	19 51	4			+6	(28.4)	h 0.09 ca.
		ipPE	19 56	5		-5			H 05 13 12
		i(PcP)Z	21 06	8			-18		NS & EW measure-
		iSZ	22 27	5			+26		ments from the
		iSNE	22 28	5	-8	+19			Wiechert.
		iE	23 40	4		+11			
		iZ	24 00	4			-19ca		
		isSNE	25 33	8	-13	-7			
		ine	25 42	8	+12	-7			
		MZ	25 49	18			22		
		ME	25 53	8		14			
		iScSN	27 56	5	-7				
		iScSE	27 57	5		+18			
		ME	27 52	11		6			
		MN	29 41	11	12				
		F	06 35						
433	" 26	eE	06 55 38						
		eLZ	07 04.2	26					
		F	07 20						
434	" 27	eLZ	06 14.5	22					
		MZ	17 40	20			2		
		F	06 35						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ	Remarks
			h	m	s		AN	AE	AZ		
435	1945 Nov. 27	iPZ	12	01	24	9	"	"	"	km. 4180 (37°6)	Dilatation. H 11 54 11 Perhaps more than one shock. NS readings from Wiechert.
		iNE		01	29	9	-2	+5			
		iZ		02	21	8			+28		
		iE		02	53	10		+11			
		iEZ		03	05	6		+12	+20		
		iNE		03	47	8	-3	+10			
		iSE		07	10	10		+16			
		iSSE		09	24	10		+17			
		iE		13	43	8		+31			
		ME		14	36	15		43			
		MN		15	55	11	50				
		MZ1		17	10	14			31		
		MZ2		18	57	13			40		
		436	" 27	P?Z	12	30	34				
iE				31	32	9		+12			
iE				32	21	8		-15			
i(S)E				36	23	8		-14			
i(SS)E				38	58	8		-19			
iN				39	02	8	+13				
MN				44	29	8	53				
ME				44	34	8		41ca			
MZ				46	56	15			47		
437	" 27			eZ	15	39.3					F 14 35 ca.
		MEZ		46.5	14		1	1	F 16 05		
438	" 27	eE	17	14	46						
		eE		19	59	8					
439	" 27	eLE		20.8	16						
		ME		22	10	14		2			
		MZ		24	20	12			2		
		ePEZ	22	11	03	10				F 17 40	
		iPEZ		11	10	10		+9	+16	11,560 (104°)	
		eEZ		11	19	25				Compression. H 21 57 02	
		iEZ		12	08	14		+10	+48		
		iZ		14	56	12			-26		
		iPPZ		15	22	16			+44		
		MEZ		15	47	20		26	65		
		eEZ		15	57	32					
		MEZ		16	18	26		51	92		
		iEZ		17	26	12		+35	+34		
		iEZ		17	52	10		+27	+40		
		iSKSE		21	42	18		+43			
		eN		21	51	24					
		iE		21	57	11			-78		
		i(SKKS)N		22	17	24	+155				
iE		22	20	22			-350				
iSN		22	54	16	+83						
iSE		22	55	11			-123				
MN		23	23	24	290						
iPSN		24	34	18	+81						
ME		24	53	28		290					
MN		25	08	28	250						
iE		25	41	16		+180					
iN		26	57	13	-58						
iN		29	52	17	+68						
MN		30	24	32	540						
ME		30	m56	32		450ca					
iN		32	25	18	+150						
iE		32	57	22		-210					
iE		34	04	21		+300					
iNE		34	47	16	-90	+160					
ME		35	02	24		340					
eLQN		38.8		40							
eLQE		39.6		32							
iLRN		42	29	25	-400						
MN1		42	56	32	2200						
MN2		44	53	32	2000						
MZ1		45	52	24				415			

(Concluded on next sheet)



RIVERVIEW COLLEGE OBSERVATORY,

SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			△ km.	Remarks
			h	m	s		AN	AE	AZ		
439 cont.	1945 Nov.27	MN3	22	51	32	21	900			1160ca	NS & EW maxima from Wiechert.
		MZ2		52	7	28					
		iME		53	01	22		+780			
		ME1		54	10	22		2000ca			
		MN4		55	12	21	1120				
		ME2		56	39	21		2350ca			
		ME3		57	37	19		2100ca			
440	" 28	F	03	30						2420 (21:8)	Dilatation. h 0:01 H 08 35 30
		iPNEZ	08	40	20	4	+4	+6	-11		
		iSN		44	10	5	-15				
		iSE		44	11	7		-9			
		iPcPZ		44	14	7			-10		
		iPcPN		44	15	6	+30				
		iE		44	24	8		+7			
		iN		44	29	7	+14				
		isSE		44	39	7		-7			
		isSN		44	43	6	-11				
		iSSSNE		45	02	11	-5	+7			
		iz		45	05	10			+15		
		ME		48	00	14					
		MZ		48	11	14			4		
		MN		49	26	13	2				
		iScSE		51	23	6		+5			
441	" 29	F	09	30							
		eE	12	40	18						
		eLEZ		45	0	20					
442	" 29	MEZ		47	8	14		1	1		
		F	13	00							
		eZ	15	39	43	12					
		ME		44	04	14		2			
		MN		45	12	10	4				MN from Wiechert.
443	" 30	MZ		48	26	12			2		
		F	16	05							
		ePZ	12	17	47	8				5150	H 12 09 23
		ePPZ		19	39	10				(46:3)	
		iSN		24	31	8	-5				
		PSE		24	42	14					
		iSSE		27	48	14		+12			
		iN		27	54	7	-6				
		eLE		32	3	34					
		eLZ		35	6	30					
		MEZ		38	5	20		9	12		
MN		38	42	18	3						
F	13	20									

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

Riverview College Observatory

RIVERVIEW. N.S.W

SEISMOLOGICAL BULLETIN

$\phi = 33^{\circ} 49' 46''$ S.

$\lambda = 151^{\circ} 0' 30''$ E

h = 25m.

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 ₀	$\epsilon : 1$	$\frac{r}{T_0^2}$		T ₁ (Galv.)	T (Pend)	μ^3	V _s	
N	1 3	202	3.0	6.2	0.002	4 4	12.2	12.2	-0.01	457
E	1 3	228	7.2	4.2	0.007	4 4	12.3	12.2	-0.02	490
Z	2					4	11.9	12.0	+0.02	466

No.	Date	Phase	Time (G.M.T.)			Per s.	Amplitude			Δ km.	Remarks
			h.	m.	s.		A _N	A _E	A _Z		
<p>Unless stated otherwise, readings are from the Galitzins. Ground amplitudes are given. The amplitudes of initial impulses on the Galitzins were computed by Galitzin's method. The Tables used are those of Jeffreys and Bullen (1940).</p>											
444	1945 Dec. 1	eNZ eLE MZ MN ME	05	27	47	8	"	"	"	km.	NS readings from the Wiechert.
445	" 1	ez iz i(S) _E MEZ	05	55	08	7	1	2	+3		F merged in No.445 Masked by No.444.
446	" 1	e(P) _Z e(S) _E e(SS) _N i(SS) _E eLZ ME MZ	13	42	47	5		2	3		F 06 30
447	" 2	eLZ ME MZ MN	23	36	7	20	1	1	3		F 19 25
448	" 3	ME MZ	19	46	39	14	1	1	2		NS readings from the Wiechert. F 00 10
449	" 5	eZ eLZ	22	42	09	18					F 19 55
450	" 8	iPNZ iz ippZ iz iN iN iz iSN iz iE MN mZ iE eLZ ME1 MN1 MZ MN2 MZ	01	09	49	4&8	+1		-6 +8 -16 +36	3320 (29'9)	Dilatation. h 0.01 H 01 03 48 NS readings from the Wiechert.
						9	-10				
						8	+9				
						10			+31		
						21	+165		+64		
						20			+60		
						15			+99		
						21	210				
						24			150		
						10					
						32					
						20			105		
						21	145				
						20			140ca		
						18	160				
						26			11		
											F 05 10

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ km.	Remarks
					AN	AE	AZ		
451	1945 Dec. 8	e [?] E	08 33.8	5	"	"	"		
		MZ	45 08	14			1		
452	" 8	ME	45 42	14		1			F 09 05
		eLz	19 13.6		20				
		MEZ	17.3	17		2	2		F 19 30
453	" 9	eLE	03 58.6	18					
		F	07 10						
454	" 9	eZ	21 46.4	20					
		F	22 15						
455	" 10	eZ	01 55.8						
		ME	58 39	12		1			
		MZ	59 00	14			3		F 02 10
456	" 11	eLz	11 15.1	26					
		MEZ	22.8	22		6			F 11 45
457	" 12	ME	01 38 39	14		2			
		F	01 45						
458	" 12	eE	05 54 59	6					
		e(S)E	58 49	8					
		eLz	06 05.6	20					
		MN1	07 00	11	1				
		MZ1	07 46	16			5		
		ME1	07 52	16		5			
		MN2	10 47	13	2				
		ME2MZ2	11 00	16		6	7		F 07 15
459	" 12	eL	07 37.3	20					
		F	07 45						
460	" 14	eZ	17 47 27	18					
		i(SKKS)E	54 58	7		-2			
		i(SKKS)N	55 00	7	+2				
		e(PS)NE	57 52	12					
		eSSNE	18 04 37	16					
		eLz	26.1	20					F 18 40
461	" 14	eLN	19 53.2	16					
		MN	54 38	12	1				
		MZ	55 10	14			1		
		ME	55 58	12		1			F 20 10
462	" 15	eLz	17 23.9	18					
		MN	29 12	12	1				F 17 35
463	" 16	eLz	16 39.0	22					
		F	16 50						
464	" 17	eLz	08 44.3	20					
		MNZ	45 20	14	2		3		F 08 55
465	" 17	ME	22 07 35	13		1			
		F	22 15						
466	" 18	eLE	02 27.0	22					
		MN	30 03	20	2				
		MZ	30 28	20			3		
		ME	30 56	20		2			F 03 00
467	" 18	eLE	04 21.6	22					
		ME	25 04	18		2			
		MN	27 00	18	2				
		MZ	31 11	16			2		F 04 40
468	" 19	eLE	00 05.5	18					Large micro-
		ME	09 17	10		1			seisms present.
		MN	09 47	10	2				
		MZ	09 56	10			4		
		F	00 25						
469	" 19	eLE	17 11.1	16					
		ME	12 12	14		1			
		MN	12 29	14	1				
		F	17 20						
470	" 20	eZ	00 21.3						
		eLEZ	26.4	25					
		MN	28 05	18	3				
		MEZ	29 10	18		4	4		
		F	01 10						

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
 SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	Remarks			
							AN	AE	AZ					
471	1945 Dec.20	iPZ	04	07	52	6	"	"	"	5270 (47°4)	Compression. H 03 59 19			
		iNEZ		07	57	6	+4	+3	+8					
		iPPNEZ		09	50	8	-8	+5	+10					
		iSNE		14	43	12	-14	+5						
		i(PPS)N		15	05	10	-28							
		iE		15	08	16		+28						
		iSSE		18	17	14		+25						
		iSSN		18	19	11	-27							
		ME		18	39	16		31						
		mZ		18	51	18			20					
		eLN		20	9	30								
		MN1		24	35	16	23							
		ME		24	41	14		20						
		MN2		27	02	15	23							
		MZ		27	45	15			19					
		ew2Z	06	44	1	28								
		MZ		50	27	26			12					
		MN		51	19	25	11							
		472	" 23	ePKPZ	08	29	39	8					2	F 07 20
				iPKSZ		33	05	6					-7	
eE				37	21	14								
eN				38	01	14								
eSKKSE				39	09	14								
eNE				39	53	12								
ePSZ				42	47	18								
eSSN				51	05	16	4							
eSSSN				56	18	18	4							
eE				56	58	20		3						
eLE	09			13	1	28								
eLZ				17	4	30								
MZ				19	11	30			14					
MN				23	33	24	10							
ME				24	21	24		9						
473	" 24	eLEZ	07	19	2	18				F 10 55				
		F	07	25										
474	" 25	iPZ	01	38	49	4			+2	9690 (87°2)	Compression. H 01 26 05			
		eN		38	52									
		eZ		40	13	12								
		iSKSN		49	15	6	+7							
		iSN		49	25	6	+4							
		iPSZ		50	39	8			+4					
		iSSN		54	54	12	-5							
		eE		55	55	12								
		eN		55	57	15								
		ME	02	10	12	25		7						
		MZ		10	26	24			11					
		MN1		10	48	22	7							
		MN2		13	33	22	9							
		475	" 25	eZ	03	10	2							F merged in No.475
				eNE		15	1	21						
eLE				15	6	28								
ME				17	48	17		2						
MZ				19	54	12			2					
MN				20	02	12	2							
476	" 25			eLEZ	09	19	1	22				F 04 15		
				MN		20	20	12	2			F 09 35		
477	" 25			eN	15	16	10	6						
				eLN		19	0	22						
		MN		21	51	15	3							
		ME		22	28	14		2						
		MZ		22	56	16			2					
478	" 26	F	15	50										
		e(L)N	22	27	3					From the Wiechert.				
		F	22	30										

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per	Amplitude			Δ	Remarks
							AN	AE	AZ		
479	1945 Dec.27	iPNZ	04	46	50	9	+9	"	"	km. 3260 (29°3)	Dilatation. h 0.015 H 04 40 57
		mNZ		47	09	9	11				
		ipPNZ		47	19	9	-26				
		iNZ		47	35	7	-18				
		iPPNZ		47	47	8	-22				
		iSN		51	33	8&19	-90				
		iz		51	49	12					
		iN		51	52	19	-370				
		mZ		52	12	18					
		i(sS)N		52	15	19	-295				
		iN		53	01	11	+78				
		iN		53	29	11	+59				
		iE		54	04	13					
		eLZ		54.5		30					
		eLN		54.7		35					
		MN1ME1		56	28	19	235	156			
		MZ1		56	41	21					
		MN2		58	07	16	200				
		ME2		58	29	13		118			
		MZ2		58	36	16				260ca	
		ew2Z	07	25.3		32					
		MZ		35	13	22				4	
		MN		35	39	22	4				
		ME		37	24	20				3	
480	" 28	eL	04	51.5		20					F 08 50
		F	05	10							Masked by micro-seisms.
481	" 28	e(P)N	14	03	33						Masked by micro-seisms.
		ez		03	38						
		i(S)N		08	11	8	-5				
		iN		08	29	12	-8				
		iz		08	35	12					
		eLE		11.6		24					
		MEZ		12	54	20				9	10
		MN		13	12	18	7				
482	" 28	iPNZ	17	54	39	8	+42			3260	Dilatation.
		iPPNZ		55	30	6	+92			(29°3)	h 0.015
		iSN		59	22	8&19	-400				H 17 48 46
		iN		59	42	19?	-1250?				Replica of No.479
		iN	18	00	04	19?					After iS, NS & EW
		eLN		02.5		30					measurements from
		MN1ME1		04	16	19	1000	765			the Wiechert.
		MZ1		04.8		19?				460?	
		ME2		06	04	13		550ca			
		MN2		06	12	16	820				
		ME3		08	26	13		550ca			
		ME4		10	57	12		400ca			
		MN3		11	22	14	600				
		ME5		12	43	11		380ca			
		MN4		13	16	13	520				
		MN5		14	56	12	580				
		ew2N	20	28.6		35					
		ME		33	46	28				24	
		MN		34	07	30	45				W2 from the
		MZ		34	20	28					Galitzins.
		F		22	40					35	
483	" 28	eN	22	54	16						Readings from
		eLN		56.1		18					the Wiechert.
		MN		58	16	16	11				
484	" 28	F	Merged in No.484.								
		eN	23	25.9							
		eLZ		29.7		25					
		ME		32	46	13				7	
		MN		33	42	15	10				
		MZ		33	52	16					
	" 29	F	00	30						11	

(Continued on next sheet)



RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)			Per.	Amplitude			Δ km.	Remarks.	
			h	m	s		AN	AE	AZ			
485	1945 Dec. 29	eLZ	05	12.7		20	"	"	"			
		F	05	25								
486	" 29	eNZ	06	55.0		11						
		F	07	00								
487	" 29	eLNZ	09	45.3		16						
		ME	51	14		15		4				
		MN	51	16		18	6					
		MZ	51	59		18						
488	" 29	iPN	09	56 37		7	-7		6		F Merged in No.488	
		iPZ	56	41		7			+6	3010		
		iZ	57	27		8			+14	(27°1)		
		iSN	10	01 11		10	+13					
		iN	01	29		12	+27					
		MEZ	07	.3		20						
		MN	07	45		18		32		37		
489	" 29	eLZ	11	46.1		18	34				F merged in No.489	
		MNE	48	.6		14	1		1			
		MZ	48	49		16						
490	" 29	ePZ	12	32 40		8				2	F 12 10	
		eN	32	46		12						
		eSN	37	19		16						
		mNZ	38	.1		20	11			10		
		eLE	41	.5		24						
		MNZ	43	.8		18	26			27		
		ME	44	10		15		16				
491	" 29	eLN	13	32.2		28					F merged in No.491	
		ME	33	55		20		6				
		MZ	34	31		20				12		
		MN	34	45		18	9					
492	" 29	eLE	14	40.5		16					F 14 30	
		MZ	42	27		16				2		
		MN	43	17		16	2					
		F	Merged in No.493									
493	" 29	eLEZ	14	58.4		28						
		MEZ	15	00.2		20			3	3		
		F	Merged in No.494									
494	" 29	eN	15	27.3		14						
		eLZ	31	.5		20						
		MN	32	15		18	2					
		ME	32	28		18		2				
		MZ	33	55		16				3		
		F	16	00								
495	" 29	eZ	23	48.3								
		F	00	00								
496	" 30	eLNZ	00	48.5		18						
		F	Merged in No.497									
497	" 30	iPN	00	54 24		8	+6					
		iNZ	54	31		8	-10		+15	3260		
		ipPNZ	54	52		9	-23		+22	(29°3)	h 0.015	
		iSN	59	06	8&18	18	-33				H 00 48 31	
		iN	59	28	8&18	18	-200				Replica of No.479	
		iZ	59	52		16						
		iN	01	02 53		10	+142			-86		
		cLN	03	.4		30						
		ME1	05	33		14		81				
		MZ1	06	25		16				140ca		
		MN1	06	59		16	180					
		MZ2	07	27		16				150ca		
		ME2	13	55		13		88				
		MN2	14	08		12	110					
		MZ3	14	13		12				110ca		
		(W2)Z	03	42.5		25						
		F	04	10								

(Concluded on next sheet)

RIVERVIEW COLLEGE OBSERVATORY,
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ km.	Remarks
					AN	AE	AZ		
498	1945 Dec.30	e(L)N	h m s 04 22.4	s	μ	μ	μ		
		ME	28.1	12		1			
		MNZ	32.9	12	2		1		
499	" 30	F	04 50						
		eN	07 52 05						
		eZ	52 14						
		eLZ	55.7	24					
		ME	58 11	14		2			
		MZ	59 02	17			4		
		MN	59 13	16	3				
500	" 30	F	08 20						
		MN	17 33 43	11	1				
501	" 30	ME	34 17	12		1			
		F	17 40						
502	" 31	eZ	18 36 40						
		eN	41 36	14					
		MN	47 33	18	7				
		MEZ	48.1	13		5	4		
		F	19 30						
503	" 31	eL	00 15.3	20					
504	" 31	F	00 30						
		eL	04 36.6						
505	" 31	F	04 50						
		MN	11 28 05	18	2				
506	" 31	ME	31 15	14		1			
		F	11 40						
506	" 31	eLE	14 38.7	20					
		MNEZ	43.0	14	3	5	3		
		F	15 05						
		iPNZ	17 31 52	8	-9		+11		
		iSN	36 33	11	-6				
		iN	36 56	12	+18				
		iE	37 41	16		+18			
		eLE	38.8	28					
		ME1	42 02	16		72			
		MN	43 06	14	63				
MZ	43 25	14			38				
F	19 35								

Compression.
Probably after-
shock of No.479.

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Director.