RIVERVIEW COLLEGE OBSERVATORY

SEISMOLOGICAL BULLETIN

1955

JANUARY - DECEMBER

RIVERVIEW, SYDNEY, AUSTRALIA

Unless otherwise stated, readings are from the Galitzins; and Jeffrey's & Bullen's Tables (1940) are used.

The amplitudes of initial impulses on the Galitzins are computed by Galitzin's method.

Riverview College Observatory acknowledges with thanks the receipt of the following Bulletins and Publications from January 24 to December 31, 1956.

Algiers.....1955 July, Aug.,October-December, 1956 January-July.
Apia.....1955 November,December, 1956 January-June (preliminary).
Azores.....1955 April-October, 1956 January-June.
Barcelona.....1953
Beograd.....1955 September-1956 February.
Bergen.....1948-1950
Besancon.....1954
Bogota.....1955
Bratislava.....1956 July 1-November 21 (preliminary).
Brisbane.....1953 January-September; 1956 January 19-Dec.18 (provis.).
Bucarest.....1955 September-1956 June (provisional).
Budapest.....1954 RapportMicro.; 1955 March-October, December.
California (University)1953 July-December.
Canada Eastern Div.....1954
Cartuja.....1954
Cheb.....1955 October-1956 March (preliminary).
Chile.....1955 April-1956 June.
Chinchina.....1955
Cleveland.....1952 March-Sept.,Dec., 1954 May-Dec.,1955 Sept.,Nov.,
1956 February, March, May-August.
Coimbra.....1955 April-1956 June.
De Bilt.....1955 October-1956 July (preliminary).
Ebro.....1948; 1955 November-1956 September (provisional).
Fayetteville.....1955 September-1956 June.
Galerazamba.....1955
Heard Island.....1954 February-October.
Hong Kong.....1955 August-December, 1956 January-March, May.
Hurbanovo.....1955 October-1956 April, August-October (preliminary).
India.....1953 August-October.
I.S.S. 1947
Istanbul (Tech.Univ.)..1956 April, May.
Ivigtut.....1951, 1952, 1953 January-March.
Jerusalem.....1954 May-1956 July (provisional).
J.S.A. 1955 *5 1-10, *6 1-5, *7 1-8, *8 1-5, *9 1-9, *10 1-6,
*11 1-5, *12 1-2; 1956 *1 1-9
Kalocsa.....1955 March-November.
Kecskemet.....1955 March-July.
Kew.....1955 November, 1956 January-September.
Kiruna.....1954
Kobenhavn.....1954
Kuara.....1955 July-1956 June (provisional).
La Paz.....1952 July-October.
Lisboa.....1955 September-1956 August.
Lwiro.....1954 July-1955 June; 1956 January-October (preliminary).
Macquarie Island.....1955 December-1956 May (provisional).
Malaga.....1954 July-1955 December.
Manila (Baguio).....1955 May-August, Nov.,Dec., 1956 January-October.
Melbourne.....1955 November-1956 May (provisional).
Mizusawa.....1946, 1947, 1953.
Noumea.....1955 November-1956 July (preliminary).
Osaka.....1955
Palisades.....1955 September-December.
Pasadena.....1954 September-1955 August; Prelim. No.87; Localshocks
1955 July-1956 June; Provis.(by air) 1956 Jan.16-Dec.16.
Pennsylvania.....1953 September-December.
Perth.....1955 July-1956 September.
Pittsburgh.....1955
Potsdam.....1953
Praha.....1954; 1955 October-1956 April(Preliminary).
Quetta.....1955 August-1956 March, May.
Rabaul.....1955 April-Sept.; 1956 May-December (provis.)
Tremors reported 1956 June-October.
Raciborzu.....1950
Rathfarnham.....1955 July-1956 June.
Relizane.....1955 July, Aug.,October-December, 1956 January-July.
Reykjavik.....1955
Rome.....1955 July-1956 May
Santa Clara.....1955 October-1956 June.
Scoresby Sund.....1951
Seattle.....1952 September-December, 1953, 1954, 1955.

Skalnate Pleso.....1955 October-December, 1956 Jan [illegible]
Strasbourg B.C.I.S. .....1955 June-1956 May; Bull. d'Ech. 1956 Feb.1
B.C.S.F. .....1955 April-December.
I.P.G. .....1955 November 10-1956 October 10.
Stuttgart.....1955 September-December.
Switzerland.....1954 (Jahresbericht)
Szeged.....1955 March-November.
Taiwan.....1955
Tamanrasset.....1955 July, Aug.,Oct.-Dec., 1956 January-July.
Tananarive.....1955
Tokyo C.M.O. .....1955 May-1956March.
Toledo.....1955 October-1956 August; 1955 November-1956 Sept.(prov.)
Trieste.....1955 April-September.
Uppsala.....1954, 1955.
U.S.C.G.S. .....1951 Feb., 1955 Sept.-Dec., 1956 Jan.-May, July, Aug.; Epic. cards 1956 nos.4-101; Data sheets 1956 Jan.8-Dec.16
U.S.S.R. .....1951 October-December, 1954, 1955 January-March.
U.S.S.R. (Tadjhik).....1951 July-December, 1952.
U.S.S.R. (Ukraine).....1952 May-December.
Vienna.....1955 July-1956 July.
Warsaw.....1954 July-October, 1955 October-December, 1956 Jan.-Aug.
Wellington.....1953 April-December.

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Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

$\Phi = 33° 49' 46''$ S. $\lambda = 151° 9' 30''$ 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. Gailitzin Aperiodic Seismometer with Galvanometer registration (NS, EW, Vert)
5. Sprengnether Vertical.

		V	T_o	ϵ : 1	$\frac{T}{T_o^3}$		T_1 (Galv.)	T (Pend)	μ^2	V_s
N	1 3	203	7.4	5.0	0.003	4	11.7	12.1	+0.02	560
E	1 3	226	7.0	5.3	0.006	4	12.3	12.2	+0.08	490
Z	2					4	10.9	10.6	+0.1	460
						5	1.6	1.6		

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h. m. s.	s.	μ	μ	μ	km.	
2	Jan. 2	$i(P)_Z$	02 16 39	2			-		Dilatation, Sprengnether.
		i_Z	16 50	2			-		
		e_N	26 34						
		eL_E	28.7	20					
		M_N	32.4	12	6				
		M_Z	32.5	11			7		
		M_E	32.8	9		4			
3	3	$e(SS)_N$	19 17 47						
5	5	$i(P)_Z$	00 02 46	2			+		Compression, Sprengnether.
		eL_E	12.6	20					
		M_E	16.4	13		5			
		M_Z	16.9	13			4		
		M_N	17.0	12	4				
6	5	iP_Z	10 54 30	3			+9	2030ca.	Compression.
		i_{NEZ}	54 34	3	-21	+10	-29	18°3ca.	H 10 50 13
		i_{NE}	54 39	3	-97	+50			
		iPP_{NE}	54 44	3	+34*	-14*			*From Wiechert.
		m_{NE}	54 49	6	92*	49*			
		i_E	55 00	3		-25*			
		i_E	55 43	3					
		i_N	55 45	4	-19				
		i_E	56 14	5		+25*			
		i_E	56 31	6		+22*			
		i_N	56 33	6	-36*				
		$e(S)_E$	57 59						
		iSS_E	58 14	9		+21*			
		$iSSS_{NE}$	58 26	13	+150*	+200*			
		eL_N	48.8	24					
		M_N	59.2	11	220*				
		M_E	01 00.1	11		260*			
		T_Z	11.8	½					
7	5	$i(P)_Z$	01 08 28						From Sprengnether.
		T_Z	25.9	½					
8	5	iP_{NEZ}	17 53 43	4	+12	+12	-25	2610	Dilatation.
		i_Z	53 55	3			+22	23°5	H 17 48 31
		i_{NE}	54 02	4	+9	+11			
		i_Z	54 03	4			+34		
		i_Z	54 19	4			+14		
		$iPPP_{NE}$	54 24	4	+12	+14			
		i_{NE}	55 48	4	+17	+17			
		i_N	56 11	5	+22				
		iS_{NE}	57 54	8	-47	+55			
		i_E	57 57	8		-160			
		i_Z	57 59	5			+26		
		i_E	58 20	6		-62			
		i_N	58 22	6	+110				

(Continued on next page)

1955, January.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
8	Jan. 5	i_E	17 58 27	7		-60			
(cont.)		i_Z	58 36	6			+37		
		iSS_N	58 42	7	+120				
		$iSSS_E$	58 56	7		-38			
		eLR_E	59.3	27					
		eLR_Z	59.6	27					
		MZ	18 00.5	21			84		
		ME	00.8	21		160			
		MN	00.9	16	100				
9	5	$(P)_Z$	21 09 44						
		$i(S)_N$	14 01	5	+4				
		$i(S)_E$	14 02	4		-3			
		$i(sS)_E$	14 12	4		-2			
		i_N	14 23	4	+4				
		eL_{NE}	15.9	20					
		ME	17.4	16		3			
		MN	17.6	15	3				
10	5	iP_{NEZ}	23 47 14	3	+	+	-7	2660	Dilatation
		i_{NEZ}	47 22	3	-5	-5	+12	23°9	H 23 41 58
		i_{NEZ}	47 33	5	+35	+47	-67		
		i_{NE}	47 39	4	+25	+22			
		i_Z	47 41	4			+35		
		iPP_Z	47 47	5			-26		
		iPP_{NE}	47 48	6	+10	+14			
		$iPPP_E$	47 58	5		+34			
		$iPPP_Z$	47 59	4			-29		
		i_N	48 00	5	+25				
		i_{NE}	48 39	7	-16	-17			
		i_Z	48 40	4			+20		
		i_{NZ}	49 01	5	-28		+14		
		iE	49 12	6		-28			
		i_E	49 26	8		+37			
		iZ	49 27	6			-29		
		i_N	49 28	6	+32				
		iZ	49 38	6			-41		
		iZ	50 55	7			-31		
		i_N	51 09	8	+35				
		iS_{NE}	51 28	4	-87	-23			
		i_Z	51 35	10			+84		
		iE	51 36	4		+110			
		m_N	51 36	10	115*				*From Wiechert
		iE	51 42	6					
		iE	51 48	6					
		i_N	51 51	5	+27*				
		i_N	51 58	5	-17*				
		iE	52 12	8					
		iSS_N	52 17	7	+40*				T_N=8s, T_E=5s.
		i_{NE}	52 28		+32*	+27*			
		LE	52.7	18					
		iN	52 51	5	+26*				
		i_N	53 12	5	+26*				
		ME	54.2	17		140			
		MN	54.3	16	170				
		MZ	55.6	15			130		
11	6	P_Z	01 16 43					2670ca.	H 01 11 26
		iS_N	20 58	7	+9			24°0ca.	
		iE	21 00	5		+6			
		MNE	23.7	15	8	3			
12	6	P_Z	02 04 52					2690	H 01 59 33
		iS_N	09 08	5	+15			24°2	
		iS_E	09 09	5		+5			
		i_N	09 36	7	+7				
		ME	11.9	14		5			
		MN	12.2	14	7				

1955, January.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
13	Jan. 6	iP_Z	02 27 47	3			-8	2590	Dilatation
		i_{NE}	27 50	4	-7	-3		23°3	H 02 22 37
		i_Z	27 52	4			+32		
		i_{NE}	28 02	4	+13	+22			
		iPP_N	28 18	4	+7				
		iPP_Z	28 19	4			+10		
		$iPPP_N$	28 28	5	+15				
		iS_N	31 56	9	-40				
		i_Z	32 02	8			+37		
		i_E	32 05	6		+43			
		i_E	32 23	7		-59			
		i_N	32 30	8	+73				
		i_E	32 35	6		+41			
		eL_E	33.2	21					
		MN	35.1	15	63				
		MEZ	36.3	14		44	43		
14	6	iP_Z	02 33 37	1½			+		Comp. Sprengnether
15	6	iP_Z	02 39 51	1½			+		Comp. Sprengnether
16	6	iP_Z	04 15 47	4			+4	2590	Compression
		iS_N	19 56	7	+6			23°3	H 04 10 37
		iS_E	19 57	4		+3			
		i_N	20 22	7	+6				
		eL_E	21.6	19					
		MN	23.0	16	3				
17	6	iP_Z	07 04 58	4			+3	2620	Compression
		eS_N	09 10					23°6	H 06 59 45
		i_{NE}	09 25	5	+3	+4			
		eL_E	11.0	24					
		MN	12.4	18	2				
		MEZ	12.6	18		2	2		
18	6	iP_{NEZ}	09 53 29	3	+4	+4	-7	2700	Dilatation
		i_Z	53 35	3			-5	24°3	H 09 48 09
		i_Z	53 42	3			+6		
		i_E	53 58	3		+4			
		iS_N	57 46	8	+27				
		iS_E	57 47	6		+17			
		i_N	58 05	8	-24				
		i_E	58 06	7		-29			
		i_N	58 13	8	+19				
		eL_E	59.2	22					
		i_E	10 00 12	7		+15			
		ME	01.5	16		14			
		MN	01.6	13	17				
		MZ	02.0	16			12		
20	7	iS_N	10 04 35	6	+3				Masked by micro-seisms.
		eLR_N	16.5	28					
		ME	21.6	21		5			
22	7	iP_{NZ}	18 58 41	3	+2		+2	2190	Compression
		iS_E	19 02 18	5		+3		19°7	H 18 54 07
		i_N	02 23	5	-3				
		eNE	02 30	10					
		iSS_E	02 45	7		+5			
		i_N	02 47	6	+4				
		$iSSS_E$	02 56	7		-4			
		eLR_Z	03.3	15					
		ME	04.3	10		3			
		eT_Z	17.1	½					
23	8	iP_{NEZ}	07 39 10	4	-4	-4	+11		Compression
		ipP_Z	39 19	4			+16		
		$iNEZ$	39 29	8	-61	-50	+90		
		$iNEZ$	39 41	7	+35	+30	+38		
		i_N	39 55	6	+12				
		i_Z	39 59	6			+35		
		i_{NE}	40 01	6	+52	+40			
		i_Z	40 10	6			+23		
		i_{NE}	40 20	6	+24	+35			
		i_E	40 30	7		-22			
		i_Z	40 33	4			+20		(Continued)

1955, January.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per. s	Amplitude AN μ	AE μ	AZ μ	Δ km.	Remarks
	1955								
23	Jan. 8	iNEZ	07 40 42	5	+6	-27	+26		
(cont.)		iN	41 00	6	+20				
		iZ	41 08	5			+28		
		iN	41 19	4	+15				
		iE	42 16	7		+23			
		iE	42 28	7		+33			
		iE	43 03	6		+23			
		iN	43 32	6	+9				
		i(S)E	43 44	8		+34			
		iN	43 45	10	-34				
		iZ	43 49	6			+21		
		iE	43 57	8		+50			
		iN	44 06	7	-150				
		iZ	44 07	9			-87		
		iE	44 15	10		+89			
		iN	44 19	7	+53				
		iZ	44 22	8			+74		
		iNE	44 37	10	-100	+115			
		iZ	44 39	8			+66		
		iN	44 49	8	+89				
		eLN	45.3	20					
		ME	46.9	22		200			
		MN	47.5	19	170				
		MZ	47.7	22			250		
25	9	iN	08 53 33	4	+3				Masked by micro-seisms.
		iN	54 46	4	+3				
		iN	55 13	4	-3				
		iN	56 45	3	+3				
		iE	56 53	4		+5			
		eLE	57.6						
		MNEZ	58.4	12	2	1	2		
27	9	(iP)Z	11 19 37	1			+		Comp. Sprengnether
28	9	iZ	11 58 17	4			+2		Compression
		e(S)N	12 02 19	9					Masked by micro-seisms.
		e(L)N	03.3	16					
		i(ScS)N	08 45	4	+4				
30	10	iPZ	21 50 10	1			-		Dil. Sprengnether
33	13	ePZ	02 17 06					10,440	
		iPcPZ	17 09	4			-5	93°9	Dilatation
		iZ	17 18	3			+4		H 02 03 45
		iSKSN	27 38	8	+9				
		iN	28 04	7	-10				
		iSE	28 14	7		-11			
		iN	28 32	10	-11				
		iE	28 39	11		+17			
		iPSNE	29 29	9	+9	+7			
		iE	34 05	7		+7			
		eSSN	34 37	18					
		iN	34 52	12	-20				
		eSSSE	38 20	24					
		eLQN	42.7	30					
		eLRNZ	46.8	30					
		eLRE	47.3	30					
		MN	50.9	22	24				
		ME	52.6	23		17			
		MZ	53.2	19			13		
		eW2	04.3	25					
34	13	(P)Z	02 49 06					10,440	
		iZ	49 17	4			-3	93°9	
		iSKSN	59 38	6	+7				
		iN	59 55	4	+2				
		iN	03 00 13	6	+7				
		iSE	00 14	6		+9			
		iZ	00 15	4			+5		
		iZ	01 15	4			+7		
		eLRN	19.3	27					
		MN	23.3	22	11				
		eW2N	04.9	27					

1955, January.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
35	Jan.14	$(iP)_Z$	14 59 27	1½			+		Comp. Sprengnether
		e_N	15 04 21	8					
36	15	$e(S)_N$	19 56 23	7					
		eL_E	58.9	16					
		MN	20 00.4	15	1				
37	17	iP_Z	02 46 26	2			-1		Dilatation
38	18	iP_Z	14 42 11	2			-4	3370	Dilatation
		iPP_Z	43 32	2			+2	30°3	h 0.06
		iS_{NE}	46 41	3	-2	-2			H 14 36 33
		$e(SS)_N$	49 17						
		i_N	49 22	7	+5				
		i_Z	49 29	4			+2		
		i_N	49 51	6	-3				
		i_N	50 48	5	-2				
39	18	eP_Z	17 04 04					9420	H 16 51 26
		ePP_Z	07 30	6				84°8	
		eS_{NE}	14 32	5					
		e_E	14 41	21					
		ePS_{NE}	15 30	21					
		eSS_{NE}	19 59	19					
		i_N	20 44	9	+5				
		eLQ_N	26.9	25					
		eLR_{NEZ}	30.6	27					
		MEZ	34.4	19		3	4		
		MN	35.1	19	2				
40	18	iP_Z	19 54 12	1½			-	2900	Dil. Sprengnether
		i_Z	54 14	3			+3	26°1	H 19 48 35
		iPP_Z	54 52	1½			+		Sprengnether
		eS_E	58 42						
		i_Z	58 52	7			+6		
		i_N	58 54	7	-8				
		i_E	58 57	8		+12			
		i_{EZ}	59 26	4		+5	+5		
		i_E	59 33	7		+8			
		i_N	20 00 46	7	+5				
		i_E	01 14	6					
		MN	03.2	16	5				
		ME	03.9	13		3			
		MZ	04.7	16			4		
43	22	e_N	05 50 57						
		eSS_E	55 20	20					
		eLQ_N	06 01.5	27					
		eLR_N	05.1	22					
44	22	i_Z	15 38 13	3			+3		
		i_E	39 05	3		+3			
46	23	iP_Z	22 30 11	2			+1	5400	Compression
		i_Z	30 24	3			+1	48°6	
		iS_E	37 12	4		+3			
		eL_N	45.4	27					
		MN	49.5	15	3				
		MEZ	54.1	18		3	3		
47	24	iP_Z	14 39 57	2			-2		Dilatation
48	24	iP_Z	15 34 00	2			+2		Compression
49	25	$i(P)_Z$	04 18 23	2			+4		Compression
		ME	41.8	18		1			
50	27	iP_Z	18 44 21	3			-3	3560	Dilatation
		iPP_Z	45 45	3			-2	32°0	h 300 km.,
		isP_Z	45 49	4			-3		H 18 38 18
		i_{NE}	45 50	4	+2	+3			
		i_{NZ}	46 16	3	+3		-3		
		iS_{NE}	49 11	5	-11	-2			
		i_N	49 28	5	-3				
		i_N	51 24	6	-6				
		i_E	51 27	6		+3			
		i_N	52 00	7	+6				
		i_E	52 02	6		-3			
		$iScS_{NE}$	54 13	5	-9	+7			
		i_{NE}	56 53	5	+3	+2			

1955, January-February.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
51	Jan.28	e(SKKS)N	17 26 47						
		e(PS)E	28 27						
		eSSN	33 22	18					
		eSSSN	36 53	18					
		eLN	43.5	27					
		eLRE	46.6	37					
		MNE	49.1	34	12	10			
		MEZ	54.6	30		7	6		
52	31	iPKPZ	05 22 09	1½			-		Dil. Sprengnether
		ME	06 09.2	18		1			
		MN	21.0	19	2				
54	31	iPZ	16 14 26	1½			+	8890	Comp. Sprengnether
		iSE	24 30	9		+11		80.0	H 16 02 13
		eNE	24 39	18					
		iPSN	25 13	7	+7				
		iN	25 28	7	+6				
		iE	29 14	7		+5			
		eSSN	29 48	22					
		iE	32 44	7		+5			
		eLQE	35.4	36					
		eLRN	39.6	32					
		ME	47.4	23		6			
		MNZ	48.8	19	11		10		
Minor activity: 1d 17.1h; 4d 12.1h; 7d 16.2h; 8d 10.5h; 9d 09.7h; 10d 11.0h; 13d 01.0h; 20d 04.7h, 08.8h; 22d 21.5h; 31d 15.9h.									
55	Feb. 1	eN	03 17 38						
		iN	18 08	4	+2				
		MN	21.1	13					
57	1	iZ	19 28 15	3			+3		Compression
		e(S)E	37 38	11					
		e(S)N	37 41	14					
		e(SS)N	42 50	16					
		eLQNE	48.0	23					
		eLRN	51.4	35					
		MNZ	58.3	21	4		4		
		ME	58.5	19		2			
59	4	iPZ	07 33 40	3			+3	8470	Compression
		iPcPZ	33 53	3			-3	76°2	H 07 21 48
		iZ	35 12	4			-4		
		iPPZ	36 38	4			-2		
		eSN	43 24						
		iSN	43 28	5	+4				
		iSE	43 29	5		-3			
		iN	43 36	5	-3				
		iE	43 57	5		+3			
		ePSE	44 03	16					
		eN	47 58	15					
		eSSE	48 00	16					
		eLQN	53.2	21					
		eLRE	57.5	34					
		i(P'P')N	08 00 38	4	-4				
		iN	00 45	4	+5				
		iE	01 30	6		+7			
		MN	01.8	19	10				
		MEZ	04.2	18		10	7		
60	5	iZ	19 56 24	3			+2		
		eE	57 50	8					
61	5	ePZ	20 54 08					8880	h 0.005
		iSNE	21 04 05	4	-1	-2		79°9	H 20 42 05
		iSKSE	04 13	5		-3			
		iSKSN	04 15	5	-1				
		isSE	04 34	4		+2			
		eN	04 44	15					
		eSSN	09 12	15					
		eLQE	15.1	35					
		eLRN	19.2	27					
		MNEZ	27.2	19	4	2	3		

1955, February.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
63	Feb. 6	$(iP)_Z$	10 18 38	1½			-		Dil. Sprengnether
		$e(S)_E$	29 35						
		$e(SS)_N$	35 21	15					
		ME	53.0	17		1			
		MNZ	56.6	18	1	1			
65	6	$(Pg)_Z$	23 38 23	½					Sprengnether
66	6	$(Pg)_Z$	23 57 39	½					"
67	7	$(Pg)_Z$	00 02 46	½					"
68	7	$(Pg)_Z$	00 07 26	½					"
69	7	Pg_Z	01 45 30	½				80	"
		iSg_Z	45 39	½				0°7	H 01 45 16
70	10	ePg_Z	03 00 05	½				90	Sprengnether.
		iSg_Z	00 16	½				0°8	H 02 59 49
72	12	iPE_Z	19 07 51	3		+2	-3	2380	Dilatation
		i_Z	07 52	1			+	21°4	Comp.Sprengnether
		i_Z	07 57	1			+		" "
		ipP_Z	08 01	1½			-		Dil. Sprengnether
		iPP_Z	08 17	2			+1		h 0.00, H 19 03 04
		i_Z	08 41	1½			+		Comp.Sprengnether
		eS_N	11 42						
		i_N	11 50	5	-4				
		i_E	11 52	5		+6			
		$iPcP_Z$	11 55	5			+4		
		eL_N	12.8	13					
		eL_E	13.6	16					
		MNE	16.6	13	1	1			
74	13	iP_Z	17 29 38	1			+		Comp. Sprengnether
		e_E	40 22						
78	14	iP_Z	17 01 25	1½			+		Comp. Sprengnether
		e_N	01 26						
		e_E	01 29						
		i_Z	01 31	3			+5		Perhaps more than
		i_Z	01 41	4			+5		one shock.
		eNE	03 09	19					
		$i(PP)_Z$	03 10	4			+5		
		i_Z	03 54	4			+4		
		$e(S)_E$	07 47						
		i_N	07 54	7	-5				
		i_E	07 55	8		+5			
		e_E	08 05	15					
		e_N	08 35	33					
		e_E	09 07	31					
		e_N	09 34	15					
		e_N	10 30	12					
		i_E	11 09	6		-7			
		i_{NZ}	11 11	7	+8		+6		
		i_E	11 19	6		-12			
		i_E	11 28	9		+16			
		i_N	11 31	7	-6				
		i_E	11 41	6		-14			
		i_E	11 57	6		-9			
		i_N	12 00	7	+6				
		i_E	12 33	9		+10			
		i_N	12 42	6	-8				
		i_N	13 12	7	+6				
		i_E	13 38	7		-12			
		i_E	13 56	6		-10			
		eL_N	15.1	43					
		ME	19.5	16		17			
		MNEZ	22.3	16	31	28	32		
79	14	$(P)_Z$	19 35 04	1½					(P) Sprengnether
		e_E	41 28						
		MZ	55.5	18			2		
		MN	55.6	20	2				
		ME	56.0	18		1			

1955, February.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
80	Feb.15	iP_Z	06 25 40	3			+3	2760	Compression
		ipP_Z	25 55	3			+4	24°8	h 0.005
		i_Z	26 05	3			+4		H 06 20 23
		iPP_Z	26 21	2			+		PP from Sprengnether.
		$iSNE$	29 55	5	-3	-2			
		i_N	30 03	7	+8				
		i_E	30 05	5		+3			
		i_Z	30 19	5			+7		
		eLR_N	31.8	21					
		ME	34.7	18		23			
		MN	35.1	18	26				
		MZ	35.5	17			28		
81	15	iP_Z	06 26 43	1½			+	2770	Comp. Sprengnether
		i_Z	26 46	3			-2	24°9	h 0.005
		i_{NE}	26 48	3	+2	-2			H 06 21 25
		i_{NZ}	26 55	3	-4		+3		
		ipP_Z	26 58	1½			+		Comp. Sprengnether
		i_Z	27 01	4			+9		
		i_{NEZ}	27 06	3	-2	-3	+5		
		i_Z	27 11	4			+6		
		i_E	27 13	5		-5			
		i_N	27 14	5	-4				
		i_Z	27 29	3			+7		
		i_Z	27 37	4			+7		
		iS_{NE}	30 59	7	-14	-9			
		i_N	31 08	7	+33				
		i_{EZ}	31 11	5		+15	+14		
		i_N	31 44	6	-10				
		iSS_E	32 04	5		+13			
		eLR_E	32.9	27					
		$iScS_N$	37 40	5	+4				
82	15	$i(P)_Z$	06 34 05	1½			+		Comp. Sprengnether
83	15	$i(P)_Z$	11 01 27	3			+2		Compression
		iS_N	05 27	5	-3				
		i_E	05 35	5		+3			
		i_E	05 53	5		+3			
		i_N	05 59	5	-4				
		eL_N	06.8	16					
		ME	08.0	18		1			
		MN	08.4	16	2				
84	15	iP_Z	18 47 10	2			+2	2810	Compression
		i_{NEZ}	47 16	3	+1*	+2	+8	25°3	h 0.005, H 18 41 48
		ipP_Z	47 23	2			+		Comp. Sprengnether
		ipP_Z	47 24	4			-6		Dil.
		i_{NEZ}	47 34	4	+2*	-3	-6		*From Wiechert.
		i_Z	47 41	4			+6		
		i_{NE}	47 42	4	-1*	-3			
		iPP_Z	47 51	4			+5		
		iPP_Z	47 52	2			+		Sprengnether
		iS_{NE}	51 29	5	-2*	-3			
		i_E	51 36	5		-10			
		i_N	51 37	5	+6*				
		i_Z	51 41	5			+9		
		i_{NE}	51 51	5	+4*	+15			
		i_Z	51 53	6			+12		
		i_E	52 10	5		-3			
		i_N	52 20	5	-4*				
		eLQ_N	52.5	18					
		i_E	52 44	4		-5			
		eLR_Z	53.6	24					
		ME	55.1	18		13			
		MN	55.7	14	9*				
		MZ	56.0	18			17		
		$i(ScS)_E$	58 16	5		+6			

1955, February.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s		μ	μ	μ	km.	
85	Feb.16	i(S)E	11 41 33	5		+3			Obscured by large microseisms.
		iN	42 30	6	-5				
		i(sS)E	42 33	5		+5			
		eE	43 02	10					
		iN	43 11	5	-4				
		iE	43 19	5		-5			
		iE	43 51	5		+5			
		iZ	45 14	5			-9		
		iN	45 36	5	+15				
		iE	45 45	5		+18			
		iZ	45 49	4			+11		
		i(ScS)E	46 26	4		+11			
		MNE	48.0	7	18	15			
89	20	iN	20 23 16	4	+3				Obscured by micro-seisms.
		eN	25 52	10					
		eLN	30.1	19					
		iN	38 28	5	+4				
90	20	i(P)Z	21 19 17	3			+3		Compression. Micro-seisms present.
		eLN	29.2	20					
92	23	iPEZ	05 03 23	2		+1	-2		Dilatation
		ipPZ	04 14	2			+2		
		iPPZ	04 48	3			+2		
		iZ	09 07	4			+2		
		i(sS)N	09 51	5	-3				
		iScSE	13 35	4		+5			
93	23	i(P)Z	08 41 23	2			+2		Compression
		iZ	44 23	3			-2		
94	23	iPZ	11 46 42	2			+2	3410	Compression
		iSE	51 10	5		+3		30°7	h 550 km.,
		iE	54 24	4		+2			H 11 41 09
		iScSN	56 10	4	-2				
		iN	56 43	4	+2				
95	23	(eP)Z	18 43 40						Masked by micro-seisms.
		iZ	46 10	4			+4		
		iZ	47 42	3			-3		
		iSE	53 24	4		+3			
		eN	53 29	10					
		iPSNE	54 03	5	-1	-2			
		eSSN	58 27						
		eLRE	19 07.6	34					
		MNEZ	13.0	16	4	3	4		
98	27	iPZ	20 49 31	5			-16	3280	Dilatation
		iPE	49 33	5		+15		29°5	h 0.00,
		ipPE	49 40	5		+28			H 20 43 28
		iN	50 04	4	-7				
		iN	50 07	5	+12				
		iE	50 08	5		+23			
		iN	50 20	5	+19				
		iE	50 21	5		-30			
		iPPE	50 33	6		-35*			*From iPP all readings are from Wiechert.
		iN	50 41	5	+3				
		iE	51 33	6		-24			
		iN	51 44	6	-6				
		iN	52 08	4	+14				
		iN	52 20	4	+21				
		iN	53 44	5	+18				
		iE	54 08	5		-11			
		iSN	54 22	6	-16				
		iE	54 28	5		+30			
		isSN	54 37	6	-30				
		iN	54 51	6	-21				
		iE	55 01	5		-24			
		iN	55 42	9	-46				
		iE	55 53	5		-24			
		iN	56 12	10	-74				
		eLE	56.8	33					
		MN	21 01.2	13	575				
		ME	03.4	14		350			

1955, February-March.
RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
99	Feb.28	$i(P)_Z$	20 54 43	2			+2		Compression
		$e(SKS)_E$	21 04 53						
		$e(SKS)_N$	04 54						
		eL_E	20.2	33					
		MN	25.9	16	3				
		ME	26.7	19		5	6		
Minor activity: 1d 19.0h; 2d 07.6h; 6d 05.1h, 17.0h; 10d 09.9h; 13d 01.2h, 19.9h; 14d 01.1h, 05.5h; 17d 01.0h; 18d 23.7h; 22d 06.4h; 25d 07.7h; 27d 10.0h.									
101	Mar. 1	$i(PKP)_Z$	05 01 32	4			+3		Compression
		$eSKS_N$	08 31						Masked by micro-
		i_N	08 36	4	+3				seisms.
		iPS_N	12 17	4	+3				
		eL_E	37.6	27					
		MZ	45.5	19			4		
		MN	46.3	20	4				
		ME	47.4	19		3			
102	1	$i(P)_Z$	14 52 22	2			-2		Dilatation
		iS_N	15 01 52	4	+3				
		iS_E	01 53	4		+3			
		$iScS_E$	02 11	4		+2			
		eL_E	10.9	24					
		MN	17.1	19	2				
105	2	iP_Z	01 42 55	1½			-	3250	Dil. Sprengnether
		i_Z	43 04	1½			+	29°2	Comp. "
		i_{NZ}	43 09	3	+3		-3		H 01 36 50
		iPP_Z	43 51	3			-2		
		$iPPP_Z$	44 05	5			+4		
		iS_N	47 47	6	-5				
		i_N	48 31	7	-13				
		iSS_E	49 16	6		+5			
		i_E	49 32	6		+7			
		i_N	49 53	6	-8				
		i_E	50 12	4		+6			
		eLR_E	50.4	25					
		i_N	50 37	5	-9				
		MNEZ	52.4	22	16	16	16		
106	2	$i(P)_Z$	01 50 01						i(P) Sprengnether
		i_Z	50 40	4			+7		
		i_Z	50 57	4			-4		
		$i(S)_N$	55 03	7	+12				
		i_N	56 57	5	-4				
112	6	$(iP)_Z$	06 27 57	4			+7		Masked by very
		MN	49.9	19	8				heavy microseisms
		ME	54.7	19		8			
113	6	$(iP)Z$	11 04 36	4			+5		Masked by very
		$(iS)_N$	11 56	4	-3				heavy microseisms
		$(iPS)_E$	12 04	4		-6			
		MNE	25.3	16	5	6			
114	6	iP_Z	13 42 39	4			+8	5760	Compression
		iS_N	50 01	7	+8			51°8	H 03 33 27
		iPS_E	50 09	5		-10			
		iPS_N	50 10	5	-12				Heavy microseisms
		$iPPS_E$	50 16	5		+13			present.
		i_N	50 22	5	-10				
		$iScS_E$	52 28	5		-8			
		i_N	52 33	4	+7				
		SS_N	53 42	10					
		i_N	53 55	?					
		i_E	54 09	7		+7			
		i_N	54 12	7	+19				
		i_E	54 21	6		+16			
		i_N	55 03	6	+14				
		ME	14 03.2	16		11			
		MN	03.4	16	19				
		MZ	07.0	18			12		

1955, March.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per. s	Amplitude A_N μ	A_E μ	A_Z μ	Δ km.	Remarks
	1955								
115	Mar. 7	iP_Z	04 49 40	4			-4	2490	Dilatation
		ipP_{EZ}	49 51	4		+7	-9	22°4	h 0.00
		iPP_E	50 17	5		-10			H 04 44 43
		i_Z	50 19	5			-8		
		i_N	50 21	5	+6				
		iS_N	53 39	6	-20				Large microseisms
		iS_E	53 41	6		-21			present.
		i_Z	53 45	6			+16		
		isS_E	53 59	7		-20			
		i_N	54 06	6	+31				
		i_N	54 27	5	+15				
		i_E	55 06	6		+10			
		i_N	55 16	6	+8				
		eL_E	55.5	22					
		MNEZ	57.1	18	9	16	17		
120	9	iP_{NZ}	05 45 21	4	-3		+4	2750	Compression
		i_Z	45 27	5			+10	24°7	H 05 39 57
		i_Z	45 36	4			-5		
		i_Z	46 14	4			+5		
		eS_N	49 41						
		i_{NE}	49 49	6	-11	-3			
		i_E	49 55	5		+8			
		i_N	50 27	6	+8				
		i_Z	50 34	6			-6		
		i_E	50 42	5		+6			
		i_N	51 02	5	+6				
		i_E	51 25	5		+9			
		eLR_{NE}	52.0	25					
		i_E	53 02	4		-4			
		MNEZ	54.3		8	9	7		MNZ T=16s, ME T=13s
121	10	$(iP)_Z$	21 17 21	1½			+		Comp. Sprengnether
		$i(PPP)_{EZ}$	19 12	4		-6	+5		Masked by micro-
		i_E	19 23	5		+5			seisms.
		i_N	21 40	4	+3				
		e_N	23 34						
		i_E	24 01	5		-3			
		eL_N	25.8	22					
		eL_{EZ}	28.0	25					
		MNEZ	30.4		6	6	7		MN T=13s, MEZ T=18s
122	11	iP_Z	23 41 42	1½			+	5690	CompressionSpreng.
		iPP_N	43 36	4	+3			51°2	
		iS_N	49 00	4	+4				H 23 32 35
		iSS_N	52 31	7	+7				
		iSS_E	52 34	6		-4			
		i_E	53 48	4		+3			
		i_E	54 43	4		+3			
		eL_N	56.7	?					
		MNE	24 03.2		2	3			MN T=16s, ME T=19s
123	12	$i(PP)_Z$	13 31 41	1½					Comp. Sprengnether
		e_N	36 49						Masked by micro-
		e_E	36 52						seisms.
127	14	$(iP)_Z$	13 25 03	1½			+	10,180	Comp. Sprengnether
		$iSKS_N$	35 23	5	+9			91°6	P masked by micro-
		$iSKS_E$	35 26	5		+5			seisms.
		i_N	35 39	5	-4				h 0.01,
		iS_N	35 52	5	-3				H 13 12 06
		$iScS_E$	35 54	4		-3			
		i_N	36 00	5	+9				
		i_N	36 18	5	+6				
		i_E	36 33	4		+5			
		isS_N	36 37	4	-3				
		i_N	36 44	5	-7				
		i_{NEZ}	36 54	5	+6	-3	-4		
		i_Z	37 10	5			+8		
		$iPPS_N$	37 49	5	+6				
		e_E	42 49	19					
		eL_E	53.5	25					

1955, March.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per. s	Amplitude AN μ	AE μ	AZ μ	Δ km.	Remarks
	1955								
129	Mar.15	$e(S)_E$	11 29 00						
		eL_N	31.8	19					
		ME	35.6	15		4			
		MN	36.1	13	2				
132	16	$e(S)_E$	20 31 55						Masked by micro-seisms.
		MNE	48.3	16	1	1			
133	16	$e(S)_E$	22 07 18						P masked by micro-seisms.
		e_N	07 24						
		$iSKS_N$	07 30	4	+4				
		ePS_E	07 55	13					
		eSS_E	12 32	22					
		i_E	13 00	4		+4			
		eLQ_N	18.3	21					
		$eLRE_Z$	21.8	31					
		MNEZ	25.5	19	3	4	5		
134	17	eS_N	17 45 39						Masked by micro-seisms.
		eL_E	48.1	22					
		MNEZ	51.5	17	3	5	4		
135	17	i_Z	20 32 45	3			+3		Masked by micro-seisms.
		e_E	37 51						
		eL_E	40.6	16					
		ME	42.9	12		2			
136	18	iP_Z	00 19 36	4			+9	9840	Compression
		i_N	19 42	4	+7			88°5	H 00 06 40
		i_Z	19 51	4			+19		
		iN_Z	19 54	4	-7		+19		
		i_Z	20 05	4			+21		
		i_N	20 07	4	-7				
		i_Z	20 15	4			+18		
		i_E	20 25	4		-3			
		i_N	20 26	4	-3				
		i_Z	20 35	4			+15		
		i_N	20 36	5	-9				
		i_E	21 05	4		-5			
		i_E	21 24	5		-7			
		i_Z	23 00	5			-12		
		iN_Z	23 36	6	+17		-14		
		$iSKS_N$	29 59	7	+14				
		iS_E	30 21	7		-18			
		i_N	30 29	7	+31				
		i_E	30 33	7		+28			
		i_E	30 45	9		-42			
		i_N	30 46	9	+27				
		iPS_N	31 26	7	+27				
		$iPPS_N$	31 52	10	-62				
		i_Z	31 59	7			+21		
		i_N	32 08	7	+17				
		iSS_E	36 09	13		+30			
		eSS_N	36 11	21					
		i_N	36 27	14	-70				
		eG_E	42.2	42					
		eL_N	44.4	33					
		$eLRN_Z$	48.0	36					
		MNZ	53.0	22	120ca		76		
		ME	56.2	19		48			
137	19	e_Z	11 31 30						
		$e(S)_E$	35 30						
		eL_N	39.4	18					
		$i(ScS)_N$	41 20	5	+3				
		MNZ	42.5		3		2		MN T=12s, MZ T=16s
		ME	42.6	16		3			
138	20	$i(P)_Z$	06 14 07	4			+2		Compression
		$e(S)_N$	19 38						
		eL_E	23.5	16					

1955, March.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
141	Mar.22	iP_Z	06 26 01	5			+4	8720	Compression
		eS_E	35 57	6				78°5	H 06 13 56
		$eSSS_N$	44 17	13					
		eL_N	55.5	26					
		MEZ	07 03.1	16		1	1		
		MN	03.6	16	1				
142	22	iP_Z	14 15 12	4			-5	6720	Dilatation
		iE_Z	15 19	4		-7	-12	60°5	H 14 04 58
		iZ	15 25	4			-12		
		iE	15 26	4		-4			
		iE_Z	15 36	4		+8	+16		
		iPP_Z	17 31	7			-9		
		iZ	17 37	7			+17		
		$iPPP_{EZ}$	18 52	7		-11	-17		
		iE	18 59	7		+17			
		iZ	19 06	7			+17		
		iS_E	23 27	6		+13			
		iZ	23 29	6			+14		
		iE	23 33	6		+38			
		iN	23 35	6	+12				
		eE	23 47	24					
		iE	25 09	6		-15			
		iE	26 30	7		+13			
		iN	27 18	6	+14				
		iSS_N	27 28	8	-11				
		iE	28 03	9		-23			
		iE	28 36	9		-15			
		iN	28 39	7	+5				
		$iSSS_E$	30 07	8		-15			
		$iSSS_N$	30 08	9	+27				
		iZ	30 13	7			+10		
		eL_N	31.7	37					
		eLR_E	33.2	45					
		eL_Z	34.3	36					
		iN	34 22	7	+39				
		iN	34 51	11	+100				
		MN	38.4	19	165				
		MZ	40.0	19			300		
		ME	40.3	19		320			
143	23	iP_Z	05 04 41	1½			+		Comp. Sprengnether
144	23	iP_{NZ}	05 09 41	4	+4		+5	2690	Compression
		iZ	09 47	4			+5	24°2	
		iN_Z	09 52	4	+9		+11		
		iE_Z	10 05	4		-2	+10		
		iN	10 06	4	+7				
		iZ	12 26	3			+3		
		iS_E	13 57	7		+10			
		iS_N	13 59	7	-6				
		iZ	14 02	6			+6		
		iZ	14 10	6			+14		
		iE	14 15	7		+5			
		iN	14 33	4	-6				
		iE	14 38	6		-13			
		iN	15 05	6	-12				
		eL_{NZ}	15.2	24					
		iE	15 18	8		-15			
		MN_Z	17.3	16	25		21		
		ME	17.4	11		14			

1955, March.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					AN	AE	AZ		
	1955		h m s	s	μ	μ	μ	km.	
146	Mar.23	iPNZ	17 21 22	4	-4		-5	2740	Dilatation
		iNZ	21 25	4	+12		+17	24°6	H 17 15 59
		iE	21 33	4		+5			
		iZ	21 38	4			+13		
		iN	21 40	4	+6				
		iZ	21 54	4			-9		
		iPPN	21 57	4	+10				
		iPPE	21 59	4		-5			
		iZ	22 05	3			+5		
		iPPPN	22 08	5	+12				
		iZ	22 18	5			+11		
		iN	22 19	5	+7				
		iE	22 21	4		-3			
		iNZ	22 31	4	+10		+5		
		iEZ	23 11	4		-3	-4		
		iNE	23 17	5	-4	-3			
		iNZ	23 32	3	+5		+6		
		iZ	23 48	4			+5		
		iE	23 58	5		-7			
		iZ	24 07	4			+5		
		iSE	25 41	6		+7			
		iNE	25 50	6	+14	-22			
		iN	25 58	6	+20				
		iE	26 05	7		-13			
		iE	26 25	8		-29			
		iSSN	26 51	6	+21				
		eLZ	26.9	24					
		iE	26 58	6		+17			
		eLN	27.3	24					
		iE	28 03	7		-27			
		MN	29.6	10	20				
		MEZ	30.4	11		24	22		
147	23	iPZ	22 36 23	4			+3	5720	Compression
		eSN	43 43	7				51°5	H 22 27 14
		eSSN	47 16						
148	24	e(S)N	02 23 16						
		iN	23 26	5	-1				
		eLZ	24.3	22					
		MN	27.0	13					
149	24	iPZ	13 04 16	4			+2		Compression
		e(S)E	08 27						
		iN	08 35	5	-3				
		eLZ	09.7	23					
		MNZ	12.3	15	2		1		
150	24	(iP)Z	17 53 54	3			+2		Compression
		e(S)N	57 56	6					
		eLN	59.4	18					
152	24	e(S)	20 31 34						
		eLN	32.9	23					
155	27	(P)Z	14 51 25						Masked by micro-seisms.
		MN	15 28.4	19					
156	28	iPZ	09 23 07	4			+4	7310	Compression
		ipPZ	23 25	4			+4	65°8	h 0.005
		iZ	31 02	3			+4		H 09 12 27
		iSN	31 47	7	-3				
		iN	32 25	4	+3				
		iSKSE	32 53	4		+3			
		iZ	32 59	4			+4		
		iN	33 00	4	+2				
		iE	33 01	4		-5			
		eSSN	35 56						
		iSSN	36 05	5	+3				
		eLQN	39.5	19					
		eLRE	42.4	23					
		MNZ	48.9	22	6		4		
		ME	49.8	19		5			

RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
157	Mar.28	i_Z	15 05 06	1½			+		Comp. Sprengnether
158	29	i_Z	19 52 14	4			-4		Dilatation
		i_N	55 33	4	-1				Microseisms pres-
		eL_E	56.8	18					ent.
		MNEZ	20 00.1	11	1	2	2		
159	31	eS_N	16 32 54						Masked by micro-
		eS_E	32 56						seisms.
		eL_E	35.1	20					
160	31	iP_Z	18 25 57	?			-	5640	Dilatation
		i_Z	26 02	4			+14	50°7	h 0.005 ca.
		i_Z	26 06	4			+26		H 18 17 03
		ipP_{NEZ}	26 13	5	+73	-50	-120		
		i_N	28 02	6	-28				
		i_{EZ}	28 05	6		-38	-120		
		i_N	28 28	6	-35				
		i_N	28 40	7	-56				
		i_Z	29 05	7			+49		
		iS_N	33 06	7	-34				
		i_E	33 09	8		-110			
		i_Z	33 11	8			+52		
		i_N	33 15	8	-210				
		i_N	33 24	7	+175				
		eN_E	33.4	26					
		i_N	33 38	6	+95				
		i_{NE}	33 45	6	-190	+160			
		i_E	34 15	5		+52			
		i_N	34 23	6	+68				
		i_{EZ}	34 28	5		+120	+56		
		i_E	36 02	6		+79			
		i_E	36 19	9		+79			
		iSS_N	36 35	12	-170				
		iSS_E	36 36	12		+240			
		i_Z	36 52	8			-135		
		i_{NE}	36 57	9	+270	-350			
		i_E	37 29	9		+110			
		i_E	37 56	8		+190			
		i_E	38 35	9		+200			
		i_N	39 54	6	+130				
		i_E	39 57	6		-76			
		ME	45.9	16		185			
		MN	46.6	13	135				
		MZ	46.8	16			170ca		
		MN	49.4	17	210				
		MZ	50.0	18			300ca		
		ME	50.9	16		220			
161	31	iP_{NZ}	21 01 32	3	+8		-15	5420	Dilatation
		i_Z	01 38	3			-7	48°8	H 20 52 43
		iPP_{NZ}	03 23	4	-2		+9		
		i_{NZ}	04 01	3	-3		+5		
		eS_N	08 35						
		i_{NE}	12 15	6	+10	+18			
162	31	iP_Z	23 49 41	3			+3	5480	Compression
		i_Z	49 48	3			+3	49°3	H 23 40 49
		iPP_Z	51 38	4			-2		
		i_{NZ}	51 46	4	+2		+4		
		eS_N	56 47	5					
		i_E	24 00 31	5		-3			
		i_N	00 41	4	+3				
		eL_E	02.5	18					
		ME	10.2	20		2			
		MN	11.1	13	1				

Minor activity: 1d 02.9h, 17.9h, 19.7h; 3d 04.7h, 20.4h; 4d 02.3h; 5d 05.7h, 13.0h 7d 15.0h; 8d 22.5h; 9d 03.5h, 04.0h; 12d 19.2h; 13d 03.9h; 15d 04.4h, 23.0h; 16d 06.9h; 21d 01.3h, 14.1h; 23d 13.1h; 24d 19.9h; 25d 02.7h, 18.8h.

T.N.BURKE-GAFFNEY, S.J.
Director.

P.F.RHEINBERGER.

Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

$\Phi = 33° 49' 46''$ S. $\lambda = 151° 9' 30''$ 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)
5. Sprengnether Vertical.

		V	T_o	ϵ : 1	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend)	μ^2	V_s
N	1/3	204	7.4	5.2	0.009	4	11.7	12.1	+0.02	560
E	1/3	220	6.9	4.5	0.007	4	12.3	12.2	+0.08	490
Z	2					4	10.9	10.6	+0.1	460
						5	1.6	1.6		

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h. m. s.	s.	μ	μ	μ	km.	
163	Apr. 1	$(iP)_Z$	08 46 03	2			-1		Dilatation
		$(eS)_N$	50 36						
		e_E	50 47	14					
		e_N	50 50	13					
		eL_E	53.0	22					
		MN	54.5	16	2				
		ME	55.0	16		1			
164	1	$i(P)_Z$	19 10 46	1½			+		Comp. Sprengnether
166	4	iP_Z	11 21 50	4			+4	6880	Compression
		i_Z	21 59	5			+10	61?9	H 11 11 26
		i_Z	22 07	4			+5		
		i_Z	22 41	4			+4		
		i_N	23 14	4	+4				
		iS_N	30 13	5	+5				
		i_E	30 17	5		+6			
		e_E	30.4	20					
		i_E	30 35	5		+6			
		i_N	31 08	4	+5				
		i_N	31 44	6	-6				
		i_N	31 50	4	+5				
		e_E	33 50	20					
		eSS_N	34 17	16					
		eL_N	35.6	24					
		i_E	37 41	5		-3			
		i_E	37 52	5		-7			
		eL_N	40.2	27					
		i_N	42 27	5	+7				
		ME	48.6	18		14			
		MN	49.2	19	13				
		MZ	49.4	18			16		
168	5	$(iP)_Z$	11 31 48	1½			+		Comp.Sprengnether
		$e(S)_N$	38 47						
		$e(SS)_N$	42 21						
		eL_N	46.8	27					
		MZ	49.5	17			2		
		MN	50.0	16	3				
		ME	50.5	16		3			
169	5	$(P)_Z$	13 59 10						(P) Sprengnether
		eL_E	14 22.0	20					
170	5	i_Z	14 15 13	1½			+		Comp.Sprengnether
		eL_E	32.2	20					

1955, April.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
171	Apr. 5	$iPKP_Z$	15 27 43	4			+5		Compression
		$e(PS)_E$	38 05	19					
		i_E	38 43	5		+5			
		eSS_E	44 16	15					
		eSS_N	44 19	13					
		e_E	44 31	20					
		eL_{QN}	55.5	29					
		eLR_{EZ}	16 00.5	32					
		MEZ	07.0	19		8	9		
		MN	09.1	19	7				
172	5	iP_{NZ}	16 55 25	4	-3		-4	2620	Dilatation
		e_Z	55 53					23°6	H 16 50 12
		$iPPP_N$	56 09	5	-3				
		i_N	56 43	4	+4				
		iS_E	59 37	5		+5			
		iS_N	59 38	5	-3				
		i_N	59 46	5	-10				
		i_Z	59 47	5			+7		
		iSS_Z	17 00 29	5			+7		
		eL_{NZ}	00.9	26					
		MEZ	02.4	17		8	7		
		MN	02.6	16	9				
174	6	iP_Z	19 58 03	3			+7		Compression
		$i(PcP)_Z$	59 17	4			+5		Heavy microseisms
		e_E	20 05 48	14					present.
		eL_N	14.8	20					
		MZ	19.1	10			5		
		ME	19.7	13		6			
		MN	22.5	10	4				
175	8	$i(S)_N$	03 04 29	4	-3				
		eL_N	06.2	16					
176	8	$(iP)_Z$	03 16 17	2			-1		Dilatation
		$e(SS)_N$	27 03						
		MN	35.2	13	1				
181	10	iP_Z	17 47 03	1½			+	5460	Comp. Sprengnether
		i_{NZ}	47 04	2	-2		+4	49°1	H 17 38 12
		i_{NEZ}	47 11	3	-2	-2	-9		
		i_Z	47 16	3			-6		
		i_N	47 17	4	+5				
		i_Z	47 42	4			-4		
		i_{NZ}	47 56	3	-3		+4		
		iPP_Z	48 55	4			+6		
		i_E	49 09	4		+4			
		i_{NZ}	49 10	4	+4		-6		
		$iPPP_Z$	49 48	4			+6		
		i_Z	50 13	5			-5		
		e_N	54 04						
		iS_{NE}	54 08	6	-4	-3			
		i_{NE}	54 21	6	-3	+2			
		i_Z	54 23	5			+4		
		i_E	54 45	6		-5			
		$iScS_N$	56 54	6	-6				
		i_E	57 45	6		+9			
		i_N	57 47	6	+8				
		i_Z	57 53	6			+7		
		i_N	58 01	7	+22				
		i_E	58 28	9		-10			
		i_N	58 48	8	-12				
		i_E	58 54	6		+7			
		eL_N	18 01.3	28?					
		MN	08.7	14	6				
		ME	09.7	16		9			
		MZ	09.9	16			5		

1955, April.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
182	Apr.11	iPZ	00 56 16	3			-2		Dilatation
		iZ	56 20	3			+4		
		e(S)NE	01 01 16	7					
		iN	01 24	5	-4				
		iN	01 51	4	-4				
		iN	03 26	5	-1				
		eLNZ	04.8	25					
		iE	05 03	5		+4			
		ME	06.2	16		4			
		i(ScS)E	06 49	4		+3			
		MZ	08.3	13			2		
		MN	09.8	15	3				
185	14	(P)E	01 41 08						All readings from Wiechert.
		eN	41 15						
		eSNE	51 06						
		eSSN	56 19	16					
		e(SSS)N	59 18	20					
		eLE	02 03.4	39					
		eLRN	06.1	29					
		ME	13.7	21		20			
		MN	14.3	24	24				
186	14	iZ	20 58 42	2			+2		
		iE	21 01 50	4		+3			
		iE	01 57	4		+3			
		MNEZ	05.7	12	2	2	2		
187	15	iPZ	03 54 48	4			+5	11,360	Compression.
		iPPZ	59 06	4			+10	102°2	H 03 40 50
		iE	59 12	5		-3			
		iNZ	59 13	6	+3				
		iZ	59 36	6			+8		
		eN	04 04 37	9					
		iSKSN	05 27	8	-8				
		iSKKSE	05 59	8		-6			
		iSKKSN	06 02	9	-14				
		iN	06 25	8	+8				
		iSSN	13 46	9	+7				
		iN	18 52	12	+13				
		eLQN	22.6	24					
		eLRN	27.4	30					
		MN	38.1	24	33				
		MEZ	43.0	23		43	27		
188	17	ePZ	18 48 02	3				9560	h 0.005
		epPZ	48 19	6				86°0	H 18 35 28
		iZ	48 33	5			+4		
		iZ	51 36	4			+3		
		iSN	58 29	6	+5				
		iE	58 37	7		-4			
		eNE	58.6	20					
		isSN	58 57	6	-5				
		PPSN	19 00 04	12					
		iE	03 55	5		-5			
		eSSE	04 07	19					
		eSSN	04 12	19					
		eE	07 24	19					
		eLQE	11.4	28					
		eLN	12.2	28					
		eLNZ	17.1	28					
		MZ	20.9	21			7		
		MN	21.3	20	14				
		ME	29.2	17		11			
190	19	(PKP)Z	17 06 47						
		(PKS)NEZ	10 27						
		ePPSE	22 02	10					
		eLRE	51.6	22					
		MNEZ	18 10.1	18					

1955, April.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
191	Apr.19	iP_Z	20 38 17	1½			-	11,780ca	Dil. Sprengnether
		i_Z	42 32	4			-4	106°ca	
		i_N	42 33	4	-3				Δ from Gutenberg Tables, normal depth.
		$i(PP)_Z$	42 49	4			-3		
		i_Z	43 15	5			-4		
		i_E	43 17	4		+2			
		i_N	43 29	4	-3				
		i_N	43 48	5	-3				
		i_Z	43 50	5			+7		
		i_Z	44 06	5			+7		
		i_E	44 12	4		-2			
		i_N	44 13	6	-4				
		i_Z	44 27	5			-5		
		i_N	44 51	5	-2				
		i_Z	44 56	5			+4		
		i_N	45 03	5	-3				
		i_Z	45 07	5			+5		
		i_Z	48 25	5			+5		
		$iSKS_E$	48 59	9		-8			
		$iSKS_N$	49 01	9	+14				
		i_N	49 23	7	+4				
		i_N	49 34	7	+8				
		i_E	49 42	8		-5			
		i_N	49 46	8	+7				
		i_{NE}	49 58	9	-14	+11			
		$i(S)_E$	50 13	9		+12			
		i_N	50 18	9	-6				
		i_E	51 08	7		+7			
		iPS_N	51 54	10	+14				
		i_{EZ}	51 58	8		-8	+13		
		e_N	52.2	19					
		i_E	52 19	8		-9			
		i_N	52 29	8	-8				
		i_Z	52 52	8			+10		
		$iPPS_{NE}$	52 58	9	-10	+12			
		i_E	53 10	8		+10			
		i_Z	53 11	7			-8		
		i_N	54 41	8	+8				
		i_N	55 45	8	+12				
		i_E	56 04	6		+10			
		i_N	56 13	9	+9				
		i_E	56 38	7		+9			
		i_N	56 51	8	-8				
		i_E	57 18	7		+9			
		iSS_N	57 48	8	+14				
		i_E	57 54	9		+16			
		i_N	58 02	9	-13				
		i_E	58 30	9		+12			
		i_N	58 55	9	+14				
		i_E	58 58	9		+14			
		i_{NE}	21 00 58	9	-5	+12			
		i_E	01 29	10		+9			
		i_N	07 38	4	+4				
		eLQ_N	08.1	30					
		eLQ_E	08.2	30					
		i_N	09 24	5	+8				
		eLR_Z	11.5	32					
		eLR_N	12.2	30					
		MN	17.7	18	15				
		ME	17.9	17		21			
		MZ	18.3	17			22		

1955, April.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks.
					AN	AE	AZ		
	1955		h m s	s	μ	μ	μ	km.	
192	Apr.20	iPP_Z	02 31 02	4			+4		Compression
		$iSKS_N$	37 22	5	-2				
		$iSKS_E$	37 24	5		-2			
		$e(SKKS)_E$	38 00	5					
		$e(SKKS)_N$	38 02	5					
		ePS_{NE}	40 14	16					
		eL_E	54.0	30					
		eLR_N	59.8	33					
		$MNEZ$	03 06.3	16	2	2	2		
193	20	$i(PF)_Z$	06 07 15	4			+3		Compression
		$iSKS_{NE}$	13 21	5	+4	-3			
		iE	13 27	5		+5			
		iN	13 30	5	+6				
		$eSKKS_N$	13 58	8					
		eE	14 04	4					
		eS_E	14 27	10					
		iN	15 27	7	+3				
		$i(PS)_N$	16 11	5	-3				
		iZ	16 16	6			+4		
		iN	16 35	6	-4				
		iE	16 36	4		+3			
		eE	17 22	10					
		eSS_E	21 47	12					
		eL_{NE}	32.6	30					
		eLR_{NEZ}	36.9	30					
		$MNEZ$	47.0	15	2	1	3		
194	20	iP_Z	09 52 08	3			+3	4620	Compression
		iPP_Z	53 46	4			+2	41°6	H 09 44 17
		$iPPP_Z$	54 20	4			+2		
		iS_N	58 25	6	-3				
		iN	59 12	5	-1				
		eSS_N	10 01 31						
		iN	01 47	5	+3				
		iE	01 49	5		-2			
		iE	02 03	4		-1			
		iN	02 12	5	+2				
		eL_E	04.1	30					
		MNE	08.4	22	2	3			
		MZ	12.4	16			2		
195	22	$e(S)_E$	01 28 08						
		$e(SS)_N$	34 21						
		eN	37 14	20					
		eE	37 50	24					
		eN	40.3	24					
		eL_E	49.9	34					
		MEZ	57.1	18		2	1		
		MN	02 00.6	18	2				
196	22	iP_Z	16 39 33	1½			+		Comp. Sprengnether
197	23	SKS_N	04 22 47						
		SKS_E	22 48						
		MN	56.0	18	1				
198	23	$e(SS)_N$	04 38 28						
200	23	$e(S)_N$	16 56 26						
		$e(sS)_E$	59 29						
201	23	$iPEZ$	18 41 08	3		+2	-4	9110	Dilatation
		iP_N	41 10	3	+2			82°0	H 18 28 45
		$iPcP_Z$	41 12	1½			-		Dil. Sprengnether
		iZ	45 14	4			+5		
		iZ	45 23	4			+5		
		iS_E	51 22	7		+5			
		iN	51 29	6	+4				
		iE	52 06	6		+3			
		iNE	52 26	6	+4	-5			
		eSS_E	56 46	16					
		$eLEZ$	19 06.3	30					
		$MNEZ$	08.4	23	3	7	7		

1955, April-May.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
202	Apr.24	(i)Z	13 13 11	1½			+		Comp. Sprengnether
		e(SSS)	34 57						
		eLNE	45.3						
		MN	53.4						
		ME	55.2						
203	24	iZ	13 14 15	1½			+		Comp. Sprengnether
		eSNE	24 01						
		eN	24 24						
204	25	iPZ	04 07 27	1½			+		Comp. Sprengnether
		e(S)N	11 14	6					
		eE	11 25	7					
		MN	15.3	14	1				
205	26	iZ	03 16 28	1½			+		Comp. Sprengnether
		iZ	16 32	1½			+		" "
206	26	e(PS)E	03 33 55						
		eLRE	04 00.9	30					
		MEZ	09.4	17		3	4		
207	28	i(P)Z	19 18 14	4			+5		Compression
		iZ	18 24	4			+5		Large microseisms
		iZ	21 33	4			+5		present.
		eN	28 32						
		i(SKS)N	28 39	6	-2				
		iN	28 55	4	+4				
		e(S)E	28 56	13					
		iE	29 00	6		+9			
		eN	29 03	10					
		eE	29 17	10					
		eN	29 58	9					
		iN	30 52	4	+5				
		eN	31 06	16					
		eN	34 09	16					
		eSSN	34 42	24					
		eE	34 51	24					
		iN	39 07	4	-3				
		eLE	41.0	30					
		eLRNEZ	46.3	30					
		MN	49.9	23	12				
		MZ	50.5	24			9		
		ME	51.5	24		8			
208	28	iPZ	21 51 18	1½			+	2350	Comp. Sprengnether
		iPPZ	51 39	1½			+	21°1	" "
		iSN	55 09	7	+4				H 21 46 30
		iE	55 11	5		-3			
		iN	55 34	5	+7				
		iZ	55 37	5			+4		
		eLN	56.2	19					
		MNZ	58.2	16	3		3		
		ME	22 00.2	13		2			
209	30	e(SSS)E	02 25 56						
		eLQE	35.1	23					
		eLRE	41.1	24					

Minor activity: 4d 02.9h, 20.4h; 6d 13.5h; 8d 15.7h, 16.4h, 17.0h, 21.6h; 13d 03.9h; 19d 14.7h; 23d 15.3h.

210	May 1	iPZ	10 06 53	3			+7	8130	Compression
		iZ	08 37	3			+7	73°2	H 09 55 18
		iSN	16 21	4	+4				Large microseisms
		eE	16 27	12					present.
		eLE	27.5	21					
		ME	32.8	21		8			
		MN	36.6	16	4				
211	1	iPZ	14 10 17	2			+4	8220	Compression
		iSE	19 46	4		-3		74°0	H 13 58 43
		iNE	19 52	4	-7	-5			
		ePPSE	20 37	7					
		eN	20 43	7					
		eLE	30.9	26					
		ME	36.2	20		5			
		MN	40.5	14	4				

1955, May.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
213	May 3	iPZ	15 20 35	1			+	2760	Comp. Sprengnether
		iEZ	20 43	3		+3	+4	24°8	H 15 15 10
		iN	21 02	4	+2				
		iZ	21 03	4			+4		
		iE	21 05	4		-2			
		iPPZ	21 10	4			+5		
		iSN	24 57	5	-3				
		iE	25 00	4		-2			
		iN	25 05	5	-2				
		eN	25 16	16					
		iE	25 19	6		+4			
		iE	25 34	4		+2			
		iN	25 38	6	+5				
		iE	25 51	4		-3			
		iN	26 05	5	-4				
		iN	26 13	4	-2				
		iE	26 21	4		+3			
		eLZ	26.8	23					
		iE	27 00	5		-4			
		iE	27 28	5		-3			
		MN	28.4	19	4				
		MEZ	29.0	19		4	5		
214	3	e(S)E	17 28 41						
		eLE	41.0						
215	4	eSE	00 39 19						
		eLRE	55.2						
216	5	(P)Z	05 53 59						
		eZ	54 08						Masked by micro-
		iE	58 48	4		+3			seisms.
		iN	59 01	5	-4				
		iN	59 18	5	-4				
		eLE	59.9	27					
		MNZ	06 01.7	19	4		6		
		ME	02.5	19		5			
220	5	i(P)Z	11 48 05	3			+4		Compression
221	6	(iP)Z	00 16 10	3			+4		Compression. Mask-
		(iPcP)Z	16 26	3			+3		ed by microseisms.
222	6	iPZ	02 58 45	3			+4		Compression
223	7	iZ	04 53 07	4			+2		
		eLNE	57.0	18					
226	11	(P)Z	00 50 15						(P) Sprengnether
		iN	57 14	4	+3				Masked by micro-
		eLZ	58.9	18					seisms.
		MNE	01 02.2	7	2	2			
227	11	eN	11 32 55						
		e(SS)N	41 37						
		e(SS)E	41 41						
		eLREZ	12 02.0	24					
228	11	iZ	19 31 56	1			+		Comp. Sprengnether
		iSN	35 23	4	-3				P obscured by
		iSE	35 24	4		-3			microseisms.
		i(SS)E	38 41	6		+3			
		i(ScS)N	38 58	4	-1				
229	13	i(PKP)Z	03 49 39	1½			+		Comp. Sprengnether
		iZ	49 55	1½			+		" "
		i(SKS)N	57 01	4	+3				
230	14	iPZ	06 13 50	1½			-		Dil. Sprengnether
231	15	(P)Z	10 12 33						(P) Sprengnether
		iZ	12 44	1½			-		Dil. Sprengnether

1955, May.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					AN	AE	AZ		
	1955		h m s	s	μ	μ	μ	km.	
233	May 17	iPZ	15 00 48	3			+5	7480	Compression
		i(pP)EZ	00 58	4		-7	-14	67°3	H 14 49 49
		iPcPZ	01 14	4			-8		
		iZ	01 26	4			-9		
		iZ	02 12	4			+6		
		iZ	02 57	4			+5		
		iZ	03 10	4			+7		
		iZ	03 25	5			-8		
		iSE	09 43	5		-10			
		iSN	09 45	5	+11				
		iE	09 50	7		+22			
		iZ	09 55	6			+16		
		iPSE	10 05	7		+14			
		iPPSE	10 17	6		+11			
		iE	10 32	6		+10			
		iScSN	10 45	4	-9				
		iE	10 50	6		+17			
		iE	11 07	6		+13			
		iN	11 22	5	+10				
		iN	11 49	6	+12				
		iN	12 02	6	+8				
		iN	12 10	6	-9				
		iE	12 20	6		+14			
		iN	13 44	6	+6				
		iN	13 52	8	+18				
		iE	13 57	6		+13			
		iE	14 16	6		+14			
		eE	14.4	22					
		iN	15 49	6	-6				
		iN	16 15	7	+18				
		iN	16 35	7	-16				
		eSSSE	17 01	23					
		eLRN	20.7	43					
		ME	28.3	25		120			
		MZ	28.8	25			150		
		MN	28.9	20	140				
237	23	iPNEZ	17 46 43	4	-2	-2	+3	2570	Compression
		ipPNEZ	46 52	4	-3	-2	+4	23°1	h 0.00,
		iPPN	47 13	4	+3				H 17 41 39
		iPPPZ	47 23	4			-4		
		iE	47 25	4		+4			
		iZ	48 17	6			+6		
		iN	48 24	4	+5				
		iE	48 27	4		-5			
		iSN	50 48	6	-3				
		iE	50 51	9		+8			
		iZ	50 55	7			+6		
		iZ	51 02	6			-7		
		isSN	51 03	9	+23				
		iE	51 11	8		-17			
		iZ	51 14	5			-5		
		iN	51 23	7	+22				
		iSSE	51 31	7		+7			
		iE	51 40	7		+13			
		iSSSN	51 51	5	-5				
		iNE	51 59	6	+5	+8			
		iE	52 27	6		+7			
		iN	52 28	7	+14				
		eLREZ	52.7	23					
		MZ	54.0	19			13		
		ME	54.5	17		16			
		MN	55.7	13	31				
238	24	(P)Z	09 34 37						
		iZ	34 41	3			+2		
		e(S)E	39 06						
		eLE	42.2	21					
		MNEZ	45.3	16	1	1	1		

1955, May.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per	Amplitude AN	AE	AZ	Δ	Remarks
	1955			s	μ	μ	μ	km.	
239	May 26	iPZ	16 28 45	?			-	2780	Dilatation
		iN	28 48	6	+7			25°0	H 16 23 18
		eNE	28 55	14					
		iN	29 17	4	+4				
		iZ	29 19	3			+7		
		iN	29 45	4	+7				
		iN	30 22	4	+8				
		eSN	33 07	?					
		iN	33 10	10	-22				
		iE	33 13	4		+6			
		iZ	33 19	8			-16		
		iE	33 25	11		-64			
		iN	33 26	12	-120				
		eLE	33.9	30					
		iSSN	34 08	9	+82				
		iE	34 13	7		+39			
		eLRN	34.5	24					
		eLZ	34.7	30					
		iN	35 29	6	+40				
		iN	35 54	7	-45				
		MN	36.4	18	54				
		MEZ	37.8	15		35	42		
240	26	iSNE	21 31 00	6	+12	-4			P obscured by
		iZ	31 10	4			+9		heavy microseisms
		eE	31 12	16					
		iN	31 13	6	-18				
		iN	32 24	7	+7				
		eLN	32.6	23					
		iE	33 01	6		+11			
		MN	34.7	15	12				
		MEZ	36.8	15		13	12		
242	27	iN	12 36 46	5	+5				
		iN	36 57	5	+5				
		iE	38 32	4		+6			
		MN	42.6	11	2				
		ME	43.2	11		3			
243	27	iPZ	19 13 55	2			-4		Dil. Large micros.
245	29	i(P)Z	01 19 56	2			+4		Compression
		iZ	24 38	1½			-		Dil. Sprengnether
246	29	iPZ	04 11 50	1½			+		Comp. Sprengnether
		iE	23 10	2		+4			
247	29	iPZ	15 42 13	4			+5	4940	Compression
		eE	42 31	13				44°4	H 15 34 00
		iE	43 33	4		+6			
		iZ	43 42	6			+6		
		i(PPP)EZ	44 40	6		-9	-9		
		iZ	47 49	6			+6		
		iE	48 01	7		+7			
		iN	48 04	6	-4				
		iSN	48 49	10	-15				
		iE	49 03	9		+27			
		iE	49 39	6		+12			
		iE	49 52	9		+17			
		iSSN	51 58	14	-26				
		iScSE	52 13	7		+20			
		i(SSS)E	52 49	12		-36			
		iN	55 06	6	+20				
		eLN	55.8	31					
		eLEZ	56.3	31					
		MN	57.3	21	150				
		MZ	16 00.3	16			72		
		ME	00.6	20		110			
248	30	i(PKP)Z	00 43 20	3			-2		Dilatation
		eE	01 00 38						
		eLE	38.8	23					

1955, May.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per. s	Amplitude AN μ	AE μ	AZ μ	Δ km.	Remarks
	1955								
249	May 30	iPNZ	12 40 46	2	+9		-18	6480	Dilatation
		iNEZ	40 54	2	-13	+5	+18	58°3	h 0.08
		iPcPZ	41 30	3			-5		H 12 31 41
		ipPNZ	42 34	2	+10		-7		
		iNZ	42 37	4	-16		+39		Gutenberg Tables
		iZ	43 03	4			+11		give: Δ 58°9,
		iZ	43 09	4			-9		h 550 km.,
		iPPN	43 14	5	-15				H 12 31 35
		isPZ	43 31	4			+11		
		iN	43 42	5	+9				iP followed by
		iZ	43 44	5			+23		short period (1½s)
		ipPPN	44 42	5	-9				waves until 12h 46m.
		iPPPZ	44 49	4			+6		
		iN	44 50	4	+14				
		iE	44 51	4		+6			
		iE	45 34	4		+6			
		iN	45 44	4	+14				
		iSN	48 06	4	-14				
		iSNE	48 09	7	+110	-94			
		iZ	48 13	7			-55		
		iEZ	48 22	7		+170	+72		
		iN	49 06	5	+8				
		iE	49 08	7		-18			
		i(ScS)N	49 24	6	+16				
		iE	49 41	8		-36			
		iN	49 44	6	-15				
		iN	50 04	5	+21				
		iZ	50 06	6			-19		
		iZ	50 36	7			-19		
		isSEZ	51 21	7		+27	-19		
		iE	51 26	9		-130			
		iN	51 28	8	-60				
		iN	51 51	8	-43				
		iN	52 04	10	+61				
		i(pScS)E	52 13	7		+26			
		iN	52 22	9	+53				
		iN	52 36	8	+42				
		i(sScS)N	53 05	5	+15				
		i(sScS)E	53 06	6		+30			
		iE	53 29	7		+17			
		iN	55 18	8	-25				
		iZ	55 20	6			-11		
		iE	55 22	9		-49			
		iN	55 23	9	+52				
		iZ	55 26	9			+55		
		iN	55 32	12	+57				
		iE	55 42	6		+24			
		iE	57 52	9		-53			
		iE	58 08	10		-48			
		iN	58 28	11	-31				
250	30	iN	13 21 22	7	+13				
251	30	iPZ	17 00 39	4			+4		Compression
252	30	iPNEZ	23 33 34	3	-7	+2	+13	3690	Compression
		iEZ	33 42	3		-2	-4	33°2	H 23 26 53
		iZ	33 48	3			-4		
		iE	34 30	3		+5			
		iZ	34 34	3			+6		
		iPPNE	34 45	3	-2	+3			
		iZ	34 52	4			+7		
		iPPPE	35 01	3		+4			
		iZ	35 09	3			+6		
		iNE	35 11	4	+5	-2			
		iNZ	35 28	3	-3		+7		
		iSNE	38 54	6	+19	+14			
		iE	39 07	4		+9			
		iZ	40 08	4			-5		
		iN	41 25	5	-7				
		iZ	41 29	4			+13		
		MNEZ	46.5	6	45	45	39		

1955, May-June.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
253	May 31	iPEZ	09 36 33	3		-2	+5	3090ca	Compression
		isPEZ	37 06	4		-3	+5	27°8ca	h 100 km.
		iEZ	37 16	4		-4	+12		(Gutenberg Tables)
		iPPZ	37 29	1½			+		PP from Sprengnether.
		iZ	37 33	4			-6		
		iE	37 38	4		+6			
		iZ	38 05	5			-5		
		iZ	38 43	5			+5		
		iN	39 17	5	-3				S cannot be identified.
		iE	39 47	5		+5			
		iE	40 11	5		+5			
		iE	40 46	5		-5			
		iZ	41 17	5			+5		
		i(sS)N	41 45	6	+6				
		iE	42 01	5		-5			
		iZ	42 02	3			+4		
		iE	42 10	5		-5			
		iZ	42 34	5			+5		
		iN	42 38	7	+13				
		iZ	42 42	4			-4		
		iE	42 56	8		+7			
		iZ	43 01	5			-7		
		iN	43 10	6	-4				
		iZ	43 15	5			-5		
		eLN	43.5	22					
		eLE	44.0	23					
		MNE	46.3	12	7	5			
		iScSE	47 03	5		+5			
254	31	(i)Z	16 36 27	4			-3		Microseisms present.
		iSN	42 00	4	+2				
		eSSE	43 52						
		eSSN	43 53						
		eLE	46.9	22					
		MNE	49.8	14	6	7			
255	31	iZ	16 49 25	3			+5		Compression.
		iZ	51 17	3			+7		Superimposed on
		iZ	53 25	5			-7		surface waves of
		iZ	53 38	5			+9		No.254
		iZ	54 41	5			-6		
		iE	55 08	4		+5			
		iZ	55 18	4			+7		
		iE	17 01 51	4		+5			
256	31	e(SS)E	18 32 26						
		eE	34 57						
		iE	38 47	5		-5			
		eLE	52.5	21					

Minor activity: 2d 13.2h; 4d 03.7h, 06.5h; 5d 09.0h; 8d 19.0H; 10d 06.5h; 17d 08.2h; 18d 16.0h; 21d 16.0h; 22d 14.5h; 27d 07.4h; 28d 06.3h.

257	June 1	(iP)Z	09 01 58	3			+3		Compression
		e(S)E	08 28						
		e(SS)E	11 37						
		eN	11 47						
		eE	12 07						
		eLE	14.1	22					
		ME	17.1	12		3			
		MN	17.5	15	2				
258	1	iPZ	16 18 15	3			+3	4640	Compression
		isPN	18 52	3	+2			41°7	h 0.01
		iSNE	24 24	4	-3	-3			H 16 10 34
		isSE	25 07	4		-2			
		iSSN	27 31	6	+3				
		iNE	27 41	6	+4	+6			
		iE	27 52	5		+5			
		iE	28 22	4		+5			
		i(sScS)N	28 50	5	-4				
		iE	28 56	7		-4			
		MN	35.9	14	2				

RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
259	June 2	iP_Z	00 31 53	3			-3	9860	Dilatation
		$iPcP_Z$	31 57	4			-5	88°7	H 00 18 56
		iZ	32 10	3			+5		
		iZ	32 13	3			+5		
		iZ	35 12	5			-5		
		iE	35 14	5		+4			
		$iSKS_N$	42 20	6	+9				
		iS_E	42 39	6		-10			
		$iScS_{NE}$	42 44	7	+16	+22			
		iE	43 03	7		+19			
		iN	43 06	6	+6				
		iE	43 23	6		+6			
		iPS_N	43 45	7	+10				
		iN	44 05	7	-5				
		iNE	44 21	7	+10	+7			
		iE	44 43	7		-7			
		iSS_E	48 29	9		+10			
		iN	48 40	10	+9				
		$eSSS_E$	52 10	13					
		eLQ_E	55.2	27					
		eLZ	59.9	25					
		eLR_{NE}	01 00.5	30					
		MZ	04.0	21			17		
		MN	04.9	22	28				
		ME	06.5	21		19			
		MZ	09.0	19			17		
		MN	11.2	19	23				
260	2	eS_E	02 25 52						
		$i(ScS)_E$	25 58	6		+5			
		eSS_E	31 53						
		eLN	37.8	28					
		MN	46.1	19	4				
262	2	iZ	12 26 06	5			+4		Masked by micro-
264	4	$(P)_Z$	17 02 56						seisms.
		$e(S)_E$	12 29						
		eLQ_E	22.8	24					
		eLR_E	26.1	27					
		MNZ	30.3	22	1		1		
		ME	33.1	22		1			
265	4	iZ	17 34 17	4			+4		
		MN	18 01.5	17	1				
266	4	$i(PP)_Z$	19 15 00	4			-2		Dilatation
		eE	19 47						
		eN	22 05						
		eL_E	24.5	23					
		ME	28.8	16		1			
267	5	iP_Z	02 01 06	3			+5		Compression
		iE	02 01	4		-2			
268	5	$iSKS_N$	02 16 41	4	+3				P obscured by
		iS_E	17 01	5		-4			microseisms.
		iPS_E	18 03	4		-2			
		eSS_E	22 50	9					
		eLQ_E	31.2	24					
		MN	38.9	22	2				
		ME	41.9	19		1			
		MZ	42.1	19			1		
269	5	eS_N	06 30 35						P obscured by
		iS_N	30 39	5	-3				microseisms.
		iN	30 51	5	+3				
		$iScS_E$	31 53	5		-3			
		eL_E	40.5	23					
		eLR_N	41.5	22					
		MZ	48.8	21			7		
		MN	49.3	19	4				
		ME	50.4	18		6			

1955, June.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
270	June 5	$(iP)_Z$	08 44 20	2			+3		Compression
		iS_E	49 07	4		+3			Masked by micros.
271	5	iE	15 57 28	3		+3			
		$e(SS)_E$	16 15 38						
273	6	i_Z	14 42 25	4			+5		Masked by micro-
		i_Z	42 42	3			+4		seisms.
		$i(S)_E$	46 47	5		-4			
		i_N	47 08	5	-3				
		i_N	47 18	5	+3				
		eL_{NE}	49.1	?					
		MN	52.4	12	2				
		ME	53.4	10		2			
274	6	i_N	18 37 24	4	-3				Masked by micro-
		i_Z	37 43	3			-5		seisms.
		ME	50.1	13		1			
275	6	$i(P)_Z$	21 14 07	3			+3		Compression
		eE	18 30	10					Masked by micro-
		iS_N	18 31	5	+4				seisms.
		i_N	19 09	5	+4				
		ME	25.2	10		2			
		MN	27.8	15	2				
278	10	$i(P)_Z$	00 44 48	4			+4		Compression
		i_Z	48 04	3			+2		Microseisms pres-
		iS_N	49 34	4	-2				ent.
		eL_N	51.6	18					
		MZ	56.8	15			2		
		ME	57.0	14		3			
		MN	57.1	12	5				
279	10	iS_N	22 12 47	5	-3				Masked by micro-
		i_E	15 44	4		+2			seisms.
		MN	18.8	12	4				
		ME	24.3	13		3			
280	11	$(iP)_Z$	03 20 49	4			+2		Compression
		$i(S)_N$	24 44	5	+2				Masked by micro-
		eL_Z	28.3	20					seisms.
281	11	iP_Z	21 17 31	1½			-		Dil. Sprengnether
		eN	24 45						
		i_N	24 58	6	-3				
		i_E	25 08	5		-2			
		$iScS_E$	26 59	4		+3			
282	12	$(iP)_Z$	01 20 59	1			-		Dil. Sprengnether
		eL_E	28.7	22					
		ME	30.9	15		1			
283	12	eS_N	16 23 34	5					Masked by micro-
		e_Z	23 38	5					seisms.
		eSS_E	24 00	6					
		eL_{NE}	24.5	14					
		MNE	25.6	13	2	2			
284	12	iP_Z	20 43 10	4			+4	9180	Compression
		$iPcP_Z$	43 16	3			+3	82°6	H 20 30 44
		eS_E	53 27	10					
		i_N	53 35	5	+2				
		eL_E	21 05.6	24					
		MZ	14.7	21			2		
		MN	14.8	19	2				
		ME	16.2	19		1			
286	13	iP_Z	19 56 52	3			-2		Dilatation
		i_Z	56 59	3			-2		
		i_E	57 42	4		+2			
		$e(S)_N$	20 03 15	10					
		i_N	06 35	6	-3				
		i_E	06 41	7		+4			

1955, June.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
287	June 13	iP_Z	21 40 49	4			-3	2410	Dilatation
		i_E	40 51	4		-2		21°7	h 0.01
		ipP_Z	41 11	4			-3		H 21 36 05
		iS_E	44 38	7		-5			
		i_N	44 41	6	-3				
		i_Z	44 43	5			-2		
		iSS_Z	45 20	6			-5		
		iSS_E	45 21	7		-4			
		iSS_N	45 22	5	+3				
		i_E	45 35	6		-3			
		i_Z	45 41	5			-4		
		eL_E	46.4	21					
		MN	49.4	12	2				
288	14	eN_Z	06 27 36	5					
		iPP_Z	30 32	5			-3		Dilatation
		$e(SKS)_E$	36 39	?					
		$i(SKKS)_E$	37 35	5		+2			
		ePS_E	40 00	?					
		i_Z	40 06	7			+5		
		i_E	40 18	5		+3			
		i_E	40 30	5		+3			
		$ePPS_E$	41 08	7					
		$iPPS_Z$	41 09	7			-4		
		e_Z	41 39	15					
		e_E	41 47	?					
		i_Z	43 45	4			+3		
		iSS_E	46 07	7		+4			
		e_E	46 15	21					
		eLR_E	07 01.8	23					
		MEZ	04.1	23		14	12		
		MN	06.1	21	4				
		W_2EZ	08 28	22					
290	14	$(P)_Z$	10 38 41						(P) Sprengnether
		$iScS_E$	49 08	4		+2			Obscured by micro-
		ME	52.5	11		1			seisms.
291	14	$i(S)_E$	17 42 29	4		+3			Masked by micro-
		i_N	42 58	5	+3				seisms.
		$e(SKS)_E$	43 16						
		eL_E	57.3						
		MN	18 03.5	18	2				
		MZ	06.3	16			1		
		ME	08.2	15		1			
292	15	$iPNEZ$	03 05 49	4	-2	-4	+5		Compression
		$i(pP)_Z$	05 57	7			+12		
		i_{NE}	05 59	6	-5	-9			
		i_Z	06 10	5			-9		
		i_N	06 15	6	+7				
		i_E	06 27	4		+5			
		i_N	06 30	6	+5				
		i_E	06 37	5		-5			
		i_Z	06 40	4			-4		
		i_N	06 42	5	-7				
		i_E	06 52	5		-3			
		i_Z	06 55	5			-6		
		i_{EZ}	07 03	6		+6	-9		
		i_Z	08 20	4			+6		
		i_N	09 14	4	+3				
		i_Z	09 42	5			-3		
		i_E	09 44	4		+4			S cannot be
		i_N	09 49	4	-3				identified.
		i_Z	09 52	6			-8		
		i_E	09 54	5		-6			
		i_N	10 04	4	-3				
		i_E	10 06	6		-5			
		eLR_E	10.7	27					
		MEZ	12.5	17		13	12		
		MN	13.8	12	9				

1955, June.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					AN	AE	AZ		
	1955		h m s	s	μ	μ	μ	km.	
293	June 15	$(P)_Z$	15 42 10						
		i_Z	42 33	3			+3		Compression
		iS_E	46 55	6		+5			
		i_E	47 03	7		+6			
		e_N	47 08	9					
		e_N	47 26	19					
		eL_E	48.4	20					
		eLR_N	49.5	24					
		ME	52 44	16		6			
		i_N	53 04	6	+6				
		MZ	53.3	19			7		
		MN	53.7	16	4				
		i_E	55.8	7		+8			
294	16	$i(P)_Z$	06 03 47	2			+2		Compression
295	16	iP_Z	06 13 36	2			-	5570	Dil. Sprengnether
		eS_E	19 47	5				50°1	H 06 04 37
		$i(ScS)_N$	23 23	4	-2				
		i_N	23 42	5	+3				
		eL_E	26.1	28					
		MN	28.2	19	2				
297	17	iP_Z	08 17 01	1½			-	7050	Dil. Sprengnether
		eS_N	25 33					63°4	
		e_N	32 09						
		eLR_E	35.9	23					
		ME	41.6	19		2			
		MNZ	43.8	17	2		2		
298	17	$i(P)_Z$	12 26 18	3			+2		Compression
		i_N	30 09	5	-1				
		MNEZ	39.2	10	2	2	2		
299	18	i_Z	05 53 36	4			+3		
		eL_E	06 00.1	18					
		MZ	02.9	18			2		
		ME	03.3	16		2			
		MN	04.2	15	2				
301	20	$iPNEZ$	12 20 23	3	+4	+3	-10	9970	Dilatation
		ipP_Z	20 35	4			-7	89°7	h 0.00
		i_{NE}	20 37	4	-3	+3			H 12 07 25
		i_Z	20 41	4			-4		
		i_N	20 49	4	-2				
		i_{EZ}	20 53	4		+4	-4		
		i_N	21 05	4	+3				
		iPP_Z	23 50	5			-5		
		i_N	23 56	5	-4				
		i_E	25 37	4		+3			
		$iSKS_N$	30 50	6	+8				
		$iSKKS_N$	31 00	6	+6				
		iS_{NE}	31 10	6	+8	-10			
		i_N	31 21	7	-12				
		isS_E	31 28	6		+6			
		i_E	31 39	6		+10			
		iPS_N	32 15	8	+9				
		i_Z	32 21	4			+5		
		i_N	32 32	16	+20				
		iSS_E	37 00	7		+7			
		eSS_N	37 08	18					
		iN_E	38 16	6	-5	-4			
		eL_N	43.2	24					
		eLQ_E	43.6	42					
		eLR_N	48.6	31					
		eLR_Z	49.0	28					
		MNZ	53.0	23	35		25		
		ME	54.7	23		28			
		eW_2	14 23.5	30					
		MNZ	28.2	25	7		8		
		ME	29.0	25		3			

RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
303	June 25	$i(P)_Z$	04 48 09	1			-		Dil. Sprengnether
304	25	$i(S)_E$	17 57 55	3		+2			
306	27	iP_Z	16 19 30	3			+1		Compression
		$i(S)_N$	25 54	4	+2				Masked by micro-
		eE	25 56	9					seisms & non-
		$e(SS)_{NE}$	28 57	10					seismic waves.
		eL_E	33.2	26					
		ME	39.2	12		2			
		MNZ	39.6	13	3		3		
307	27	iP_Z	18 14 53	4			+2		Compression
		eL_Z	21.6	18					Masked by micros.
308	29	$(iP)_Z$	03 32 51	3			+2		Compression
									Masked by micros.
309	29	$(iP)_Z$	03 43 15	2			+2		Compression
		$i(S)_N$	50 16	4	+3				Masked by micro-
		eL_E	56.8	24					seisms and non-
		ME	04 03.1	16		2			seismic waves.
312	29	iP_Z	09 59 28	2			+		Comp. Sprengnether
		e_N	10 04 52						
		eLR_E	06.6	28					
		MZ	09.6	21			7		
		MN	10.1	21	8				
		ME	10.2	13		4			
313	29	i_Z	15 49 28	1½			+		Comp. Sprengnether
		eE	56 22						
314	30	iEZ	18 35 24	4		+4	-4		Dilatation
		i_N	40 30	4	+3				Masked by very
		eL_N	41.7	19					large microseisms.
		i_Z	41 47	4					
		ME	43.9	21		6			
		MZ	44.1	21			10		
		MN	44.6	16	3				
		$i(ScS)_E$	45 42	4		+4			

Minor activity: 2d 11.7h, 14.0h; 6d 01.7h; 7d 01.5h; 9d 04.3h; 13d 05.6h; 14d 09.1h; 16d 13.5h; 18d 16.8h; 22d 11.4h; 27d 10.9h; 29d 05.3h, 05.4h.

T.N.BURKE-GAFFNEY, S.J.,
Director.

P.F.RHEINBERGER.

Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

$\Phi = 33° 49' 46''$ S. $\lambda = 151° 9' 30''$ 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. Gailitzin Aperiodic Seismometer with Galvanometer registration (NS, EW, Vert)
5. Sprengnether Vertical.

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$		T_1 (Galv.)	T (Pend)	μ^2	V_s
N	1					4	11.7	12.1	+0.02	560
	3	161	8.7	5.5	0.04					
E	1					4	12.3	12.2	+0.08	490
	3	155	10.7	6.7	0.015					
Z	2					4	10.9	10.6	+0.1	460
						5	1.6	1.6		

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h. m. s.	s.	μ	μ	μ	km.	
315	July 3	iP$_Z$	14 39 24	3			−2	9860	Dilatation
		i$_Z$	39 33	3			+3	88°7	H 14 26 27
		i$_Z$	39 43	4			−2		
		e$_Z$	42 42	8					
		eS$_N$	50 10						
		iPS$_N$	51 14	4	+3				
		e$_N$	51 26	16					
		eLR$_N$	15 07.3	29					
		M$_N$	10.2	22	4				
		M$_Z$	10.5	24			3		
316	4	iP$_Z$	14 32 38	3			−4		Dilatation
		i$_Z$	32 46	3			−2		
		i$_Z$	33 00	3			+2		
		e(SKS)$_N$	43 00						
		i$_N$	43 09	4	−1				
		e(S)$_N$	43 25						
		i(PS)$_N$	44 27	5	+3				
		e(SS)$_N$	49 42	18					
		eLR$_Z$	15 01.3	27					
		M$_Z$	05.2	23			3		
		M$_N$	05.3	20	2				
317	4	i(P)$_Z$	23 04 45	1½			+		Comp. Sprengnether
		M$_N$	26.4	19	4				
		M$_Z$	26.9	18			2		
318	6	iP$_Z$	02 06 52	4			+2	9560	Compression
		ipP$_Z$	07 07	1½			+	86°0	pP from Sprengnether
		i$_Z$	07 10	3			+5		h 50 km. ca.
		iSKS$_N$	17 14	6	+3				H 01 54 16
		iS$_E$	17 20	6		−2			
		i$_N$	17 35	5	+1				
		isS$_E$	17 46	7		−4			
		i$_N$	18 04	7	+4				
		iPS$_N$	18 25	6	+3				
		i$_E$	19 30	6		+2			
		eLR$_{NZ}$	34.1	33					
		eL$_E$	34.7	33					
		M$_{NE}$	38.0	24	5	6			
		M$_Z$	41.9	22			4		
319	6	iP$_Z$	15 05 21	1			−	3220 ca	Dil. Sprengnether
		eS$_E$	10 08					29 ca	H 14 59 23
		i$_N$	10 54	6	+2				Slightly deeper than
		i$_N$	11 31	7	+5				normal.
		i$_N$	12 19	10	−4				
		eL$_{EZ}$	13.5	27					
		iScS$_E$	15 56	5		+2			

1955, July.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					AN	AE	AZ		
	1955		h m s	s	μ	μ	μ	km.	
320	July 8	(iP)Z	18 25 31	1½			-		Dil. Sprengnether
321	8	iPZ	18 44 30	2			-3	3240	Dilatation
		ipPEZ	46 04	2		-3	+4	29°1	h 0.085
		iZ	46 10	2			+2		H 18 39 15
		iZ	46 15	2			+2		
		iSN	48 43	4	-6				
		iSE	48 44	4		+6			
		iE	48 51	5		+7			
		iN	49 01	4	+5				
		iN	52 26	4	+3				
		iScSNE	54 06	4	-6	+7			
		i(sScS)E	58 09	4		+5			
322	8	iPZ	19 10 57	1			+	5240	Comp.Sprengnether
		iPP Z	12 52	4			-5	47°1	h 0.09
		iZ	14 05	4			+4		H 19 03 16
		iZ	15 25	4			+2		
		iSN	17 06	6	+6				
		iE	17 15	5		+3			
		iScSNE	19 44	4	+4	+3			
		iN	20 36	5	-2				
323	8	i(P)Z	19 23 01	4			+2		Compression
		i(S)N	27 23	6	+7				
324	10	(P)Z	14 27 28						Masked by micro-seisms.
		(S)N	32 34						
		iN	34 57	6	+5				
		iZ	35 08	4			+3		
		eLN	35.3	21					
		eLZ	36.5	24					
		MN	39.2	14	9				
		MEZ	40.3	16		2	8		
		iE	40 35	4		+4			
325	10	iZ	23 29 39	1½			-		Dil. Sprengnether
		MN	37.2	12	2				
326	12	i(P)Z	00 45 58	3			+2		Compression
		eN	50 46	9					
		eLN	52.0	18					
		MN	53.6	15	3				
		MZ	54.6	16			4		
328	12	(P)Z	18 04 40	3					
		eLN	13.2						
329	13	(P)Z	10 01 23						Masked by micros.
330	13	iPZ	18 46 29	2			+2	3090	Compression
		iSN	51 11	6	+5			27°8	H 18 40 36
		iNZ	51 32	6	+8		-5		
		eN	51 45	21					
		iN	52 42	7					
		eLN	53.5	20					
		eLZ	54.7	24					
		MZ	56.8	20			9		
		MN	57.0	14	7				
331	14	iPZ	03 59 50	3			+3	3220	Compression
		iPPZ	04 00 46	3			+3	29°0	H 03 53 46
		iN	00 50	3	+3				
		eSN	04 41						
		eN	04 58	12					
		iSSE	06 04	5		-3			
		eLE	06.7	24					
		iN	06 55	4	+4				
		ME	09.3	16		6			
		MZ	09.9	19			7		
		MN	10.3	13	4				
332	14	iE	10 04 51	4		-2			Masked by micro-seisms.
		e(S)E	11 46						
		iE	12 15	4		-2			
		eLN	25.0	18					
		MN	30.7	14	3				
		MEZ	34.9	19		7	6		

1955, July.
RIVERVIEW COLLEGE OBSERVATORY
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
333	July 14	i_Z	10 29 40	1½			+		Comp. Sprengnether
		$i(S)_N$	37 45	4	+5				Masked by micros.
334	15	$(iP)_Z$	02 58 27	4			+4		Compression
		i_N	03 04 14	4	+3				Masked by micro-
		eL_E	09.0	19					seisms.
		ME	13.9	21		3			
		MZ	14.4	18			5		
		i_N	15 25	5	-6				
335	16	iPE_Z	02 01 37	4		+4	+3	2710	Compression
		iS_E	05 55	4		+3		24°4	H 01 56 16
		iNE	06 09	4	+6	+7			Microseisms pres-
		iSS_E	06 44	5		-4			ent.
		iNE	06 51	4	+4	+4			
		eLR_E	07.6	15					
		ME	08.9	13		7			
		MZ	10.3	8			6		
		MN	11.0	8	8				
336	16	i_Z	07 27 05	4			-4		Dilatation
		$i(PKS)_Z$	30 13	7			-5		Microseisms pres-
		iE	31 47	5		-6			ent.
		$i(SKS)_E$	33 51	4		-3			
		iE	34 41	4		+3			
		$e(SKKS)_E$	36 02	6					
		i_N	38 51	4	+5				
		i_N	50 47	5	+5				
		eL_E	08 15.5	28					
		MN	25.9	19	3				
		MEZ	27.5	19		7	10		
337	16	iP_Z	07 55 21	4			+4		C. Masked by micro-
338	16	i_N	12 23 55	5	-4				seisms & No.336
		eL_N	33.0	16					Masked by micro-
		iE	35 14	4		-3			seisms.
		MN	36.2	13	2				
		i_N	37 25	5	+6				
		i_N	41 16	4	-3				
339	17	iP_Z	07 11 02	1½			+		Comp. Sprengnether
340	17	$(iP)_Z$	08 06 08	1½			+		Comp. Sprengnether
		$(iS)_N$	16 20	4	+4				Masked by micros.
341	17	$(iP)_Z$	11 21 05	1½			+		Comp. Sprengnether
342	17	iP_Z	22 11 47	1½			-		Dil. Sprengnether
		i_N	24 09	6	+6				
343	18	iP_Z	00 59 43	2			-4	2390	Dilatation
		i_Z	59 58	1½			-	21°5	Dil. Spreng.
		iPP_Z	01 00 12	1½			+		Comp. Spreng.
		$iPPP_Z$	00 23	5			+5		
		i_Z	00 28	1½			+		Sprengnether
		i_Z	00 31	1½			+		"
		iNE	00 33	5	-4	-3			h 0.01,
		iS_N	03 30	4	-3				H 00 55 01
		i_N	03 38	4	+6				
		iE	03 40	5		-3			
		isS_N	04 11	5	-2				
344	18	iP_Z	11 35 06	3			+12	2740	Compression
		$iPNE$	35 07	3	-3	-3		24°6	h 0.02
		i_N	35 24	4	+3				H 11 29 59
		$ipPNEZ$	35 40	4	+5	+6	-4		
		$iPPEZ$	35 52	4		-6	+11		
		$iPPPEZ$	36 04	5		-11	+20		
		$iPPP_N$	36 05	5	-12				
		$iNEZ$	36 15	4		+7	-12		
		i_Z	36 30	4			+11		
		i_N	36 49	4	+8				
		i_N	37 54	4	+6				
		i_Z	38 22	4			-5		
		i_Z	38 45	4			-5		
		iS_N	39 13	5	-13				
		iE	39 15	4		-6			

(Continued on page 35)

1955, July.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
344 cont.	July 18	i_N	11 39 21	5	-8				
		i_E	39 29	4		-5			
		i_N	39 51	4	-7				
		i_E	39 54	4		+6			
		i_N	40 00	4	+16				
		i_Z	40 02	4			+12		
		i_N	40 07	4	+19				
		is_E	40 10	5		+8			
		iSS_{NZ}	40 22	4	+10		-10		
		i_Z	40 32	4			+10		
		i_E	40 39	4		+10			
		i_N	40 40	4	+13				
		i_N	40 53	6	+24				
		i_Z	41 01	4			+11		
		i_N	41 08	4	-10				
		i_N	41 40	4	+6				
346	20	$(Pn)_Z$	19 02 05						(Pn) & (Sn) from
		$i(Sn)_Z$	02 31	½			+		from Sprengnether
		i_N	02 34	1	+2				
		i_E	02 35	1		-2			
347	23	$(iP)_Z$	10 33 01	1½			+		Comp. Sprengnether
		(iSKS)	43 33	4					
		eL_E	55.3	24					
		MZ	11 08.4	19			5		
348	23	iP_Z	12 55 17	1½			+	3750	Comp. Sprengnether
		$iPNEZ$	55 19	4	+3	-1	-4	33°7	Dilatation
		i_Z	55 30	4			-3		H 12 48 32
		i_E	55 32	5		+3			
		i_N	55 34	5	-3				
		i_Z	55 35	4			+5		
		i_Z	55 42	3			-2		
		i_Z	55 46	4			+5		
		i_Z	56 12	4			-4		
		iPP_Z	56 28	4			+3		
		$iPPP_Z$	56 45	5			+7		
		i_Z	56 59	5					
		iS_N	13 00 40	5	-3				
		iS_E	00 41	5		+5			
		i_N	00 50	6	-3				
		i_E	00 52	4		-2			
		i_N	01 01	5	-3				
		i_E	01 24	6		+2			
		[illegible]	01 29	4	-4		+4		
		i_N	01 37	5	+6				
		$iSSS_{NZ}$	03 09	5	-6		+6		
		i_E	03 40	5		-5			
		i_N	03 46	6	+6				
		i_Z	04 08	4			-7		
		i_E	04 14	4		+6			
		i_N	04 20	4	+4				
		i_Z	04 27	4			+9		
		i_E	05 01	6		+14			
		i_Z	05 39	4			+11		
		iN_E	05 55	5	-9	-13			
		i_Z	06 05	4			+8		
		i_N	06 15	4	-6				
		i_E	06 27	4		+9			
		iE_Z	06 42	5		-20	+16		
		i_N	06 44	5	+35				
		eL_E	07.3	19					
		$MNEZ$	10.4	12	20	37	51		
349	23	$(iP)_Z$	14 06 11	3			+3		
		iS_N	13 33	4	+2				
		iS_E	13 36	4		+2			
		eN	13 48	13					
		$e(SS)_E$	17 04	17					
		eZ	17 39	17					
		eL_E	20.8	20					

1955, July.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
351	July 24	i(P)Z	01 12 12	4			+2		Compression
		iZ	12 33	4			-2		
		i(PP)Z	13 35	4			+2		
		i(PPP)Z	13 55	4			+2		
		eE	17 28	12					
		eE	17 37	11					
		eLREZ	22.1	25					
		MEZ	27.5	16		4	5		
353	24	iPZ	11 13(12)	1½			-		Dilatation Spreng.
		iZ	13(27)	1½			-		" "
		iSN	22(18)	4	+2				Clock correction
		iE	22(21)	4		-1			uncertain.
		iE	22(52)	4		+2			
		iE	23(05)	4		-2			
354	24	iPZ	16 30(33)	1½			+	7110	Comp. Sprengnether
		eSE	39(09)					64°0	Clock correction
		eLRE	50	23					uncertain.
		MZ	56	20			2		
		ME	59	18		3			
355	26	iPZ	05 21 18	1½			+	2780	Comp. Sprengnether
		eSE	25 40	7				25°0	H 05 15 51
		iE	25 53	5		+4			
		ME	29.6	13		1			
356	26	iPZ	09 33 58	2			+1	2050	Compression
		iZ	34 07	1½			+	18°4	Comp. Sprengnether
		iZ	34 29	1½			-		Dil. Sprengnether
		iZ	34 44	1½			-		" "
		eSE	37 21	5					H 09 29 40
		eLE	37.5	19					
		iN	37 31	5	-1				
		iSSE	37 47	6		-5			
		iSSSE	37 59	6		-3			
		eTZ	51.3	½					
		mZ	52 03	1					
357	26	e(S)E	11 46 00	7					
		eLZ	52.3	24					
358	26	(i)Z	12 54 15	4			+2		
		eLZ	13 02.7	19					
359	27	(iP)Z	01 32 10	1½			+		Comp. Sprengnether
		iSE	41 07	5		-2			
		i(ScS)N	42 05	4	+1				
		eLE	51.5	24					
		ME	55.7	18					
360	27	iZ	05 09 01	1½			-		Dil. Sprengnether
		ME	23.8	18					
361	27	eZ	18 37 32	9					
		e(SKS)E	43 45	7					
		eE	44 55	12					
		e(PS)E	46 15	14					
		eE	49 30	11					
		e(SS)E	51 49	12					
		eE	57 42	18					
		eLE	19 05.6	19					
		MEZ	12.9	19		1	3		
363	29	i(S)N	20 31 19	4	+4				Masked by micro-
		eLE	35.0						seisms.
364	31	iPZ	02 35 33	2			-	2600	Dil. Sprengnether
		iPPZ	36 05	2			+	23°4	Comp. "
		iSE	39 43	5		-2			H 02 30 22
		iN	40 03	5	-3				
		iN	40 12	5	-4				
		eLE	42.2						
		ME	44.6	13		3			

Minor activity: 12d 16.6h; 20d 02.8h; 23d 20.0h; 24d 04.6h; 28d 02.7h; 31d 03.5h

1955, August.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					AN	AE	AZ		
	1955		h m s	s	μ	μ	μ	km.	
367	Aug. 2	iP_Z	07 01 32	1			+		Comp. Sprengnether
368	4	iP_Z	06 53 41	1½			+		Comp. Sprengnether
369	4	$(iP)_Z$	10 59 01	1½			+		Comp. Sprengnether
		$e(S)_N$	11 03 51						
		eLR_E	06.5	19					
		ME	09.0	16		2			
		MZ	09.6	19			3		
		MN	09.7	16	2				
371	6	iPNEZ	08 37 12	4	-9	-39	+68	3340	Compression
		i_N	37 21	3	+11			30?0	h 0.05
		i_E	37 24	4		-33			H 08 31 33
		i_E	37 29	4		-17			
		i_N	37 42	4	-19				Between P & S
		i_E	37 44	4		-13			short period (1s)
		i_Z	37 49	3			-42		waves superposed
		i_N	38 05	3	+14				on ordinary waves.
		i_E	38 21	3		+14			
		i_Z	38 25	3			+13		
		i_{EZ}	38 33	5		-43	+35		
		i_N	38 35	4	+31				
		i_Z	38 43	4			-62		
		i_E	38 47	5		-65			
		i_Z	38 51	5			-46		
		i_N	38 53	4	+28				
		i_N	39 04	4	+28				
		i_{EZ}	39 07	4		-34	+38		
		i_E	39 30	4		+28			
		i_N	39 45	4	+17				
		i_{NE}	39 58	4	+14	+16			
		i_N	41 40	5	-11				
		iS_N	41 44	5	-36				
		i_E	41 48	5		-23			
		i_N	41 50	4	+66				
		i_N	42 07	3	+24				
		i_Z	43 12	4			+29		
		$i(PcS)_{NE}$	43 50	5	+26	-33			
		i_N	44 15	5	-12				
		i_N	44 21	6	-70				
		i_E	44 25	6		-67			
		i_Z	44 26	6			-57		
		i_E	44 40	6		-50			
		i_N	44 53	8	-56				
		i_E	45 08	7		+38			
		i_N	45 15	7	+50				
		i_E	45 33	7		+37			
		i_E	45 48	7		+48			
		i_N	46 17	7	-26				
		i_E	46 23	7		+36			
		$iScS_N$	47 10	4	-50				
		i_E	47 12	4		+30			
		i_N	47 41	4	-27				
		i_N	48 21	6	+25				
		i_N	49 16	6	-17				
		i_E	49 58	7		+17			
		i_N	50 13	7	+18				
373	9	$(iP)_Z$	18 20 04	1½			+		Comp. Sprengnether
		i_Z	20 32	1½			+		" "
		i_Z	20 53	1½			+		" "
		e_E	24 53	12					Masked by micros.
374	10	i_Z	05 09 29	4			+4		Comp. Masked
		eL_E	18.2	18					by microseisms.
376	13	i_Z	09 16 03	4			+4		Comp. Masked by
		ME	25.3	12		3			microseisms.

1955, August.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
377	Aug.14	iPZ	16 48 54	4			+5	2810	Compression
		iZ	49 01	4			+9	25°3	H 16 43 25
		iN	49 04	5	+3				
		iE	49 28	5		+5			
		iPPZ	49 32	4			+10		
		iN	49 37	5	+5				
		iZ	49 47	4			+7		
		iEZ	50 21	5		+7	-4		
		iZ	52 39	5			+7		
		iSE	53 18	5		-3			
		iSN	53 19	5	+7				
		iN	53 30	6	+15				
		iN	53 37	6	-13				
		iE	53 39	5		+7			
		iN	53 53	6	+16				
		iN	54 13	7	-17				
		eLZ	55.0	20					
		MN	57.2	13	21				
		MNEZ	59.3	12	25	12	19		
379	16	iPZ	11 52 38	1			-	3100	Dil. Sprengnether
		iN	52 40	3	+5			27°9	h 0.02
		iZ	52 42	3			+19		H 11 47 01
		iE	52 43	3		+5			
		ipPZ	53 14	3			+9		Gutenberg Tables
		ipPN	53 15	3	-3				give: Δ 27°9,
		iN	53 27	4	+9				h 200 km.,
		iZ	53 28	3			-5		H 11 47 01
		iEZ	53 33	4		-5	+11		
		iPPZ	53 40	4			+31		
		iZ	53 49	4			+12		
		iN	53 51	4	+16				
		iN	54 05	4	+13				
		iEZ	54 17	4		+5	-15		
		iN	54 22	3	+13				
		iE	54 24	4		-6			
		iE	55 18	4		+8			
		iN	55 27	4	+9				
		iSE	57 08	4		+15			
		iSN	57 11	4	-19				
		iZ	57 12	5			+27		
		iE	57 13	5		-43			
		iN	57 18	5	-31				
		iE	57 28	4		-20			
		iN	57 32	5	-31				
		iZ	57 46	6			+29		
		iN	58 10	6	-9				
		isSE	58 15	4		-7			
		iNE	58 23		21	+25			
		iE	58 32	5			+24		
		iZ	58 40	4			+37		
		iN	58 41	6	-52				
		iZ	58 58	6			+37		
		iE	58 59	5		+17			
		iN	59 04	4	+18				
		iE	59 18	4		-22			
		iE	59 23	5		-22			
		iZ	59 26	4			+24		
		iN	59 28	4	-14				
		iEZ	59 40	4		-19	+29		
		iN	59 58	5	+50				
		iE	59 59	5		+37			
		iE	12 00 10	6		-40			
		iN	00 13	5	+22				
		iN	00 31	4	+35				
		iZ	00 43	4			+32		
		iE	00 44	6		+33			
		iN	00 50	6	+43				

1955, August.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
379	Aug.16	i_Z	12 01 11	6			-43		
cont.		i_N	01 12	6	-32				
		i_E	01 16	5		-35			
		i_Z	01 52	6			+32		
		i_N	01 55	5	+24				
		i_E	01 59	5		+22			
		i_E	02 10	5		-40			
		i_E	02 18	6		+36			
		i_E	02 26	6		-36			
		i_N	02 31	7	-35				
		i_Z	02 35	6			+46		
		i_E	02 52	7		-48			
		i_N	02 59	7	-24				
		i_E	03 00	6		+34			
		i_E	03 12	7		+46			
380	19	iP_Z	12 55 26	2			+		Comp. Sprengnether
381	20	$i(P)_Z$	06 20 53	3			+2		Compression
		$(S)_N$	28 13						
382	21	iP_NZ	17 40 41	3	-4		+16	3720	Compression
		i_N	40 57	3	+5			33°5	H 17 33 58
		$i(pP)_Z$	40 59	4			+23		Perhaps slightly
		i_N	41 20	4	-6				deeper than
		iPP_N	41 53	4	+7				normal.
		i_Z	41 59	3			+13		
		i_N	45 57	5	-9				
		iS_{NE}	46 03	4	+13	+5			
		i_N	46 22	4	+11				
		i_N	46 35	4	+9				
		e_Z	46.9	22					
		i_Z	48 23	5			+20		
		i_N	48 40	4	-19				
		i_Z	48 47	4			+18		
		i_Z	49 22	4			-36		
		i_{NE}	49 23	4	+23	+15			
		i_E	49 43	4		+13			
		$i(ScS)_N$	50 51	4	-31				
		MNEZ	55.7	12	93	90	135		
		eW_2Z	20 22	25					
383	23	$e(SS)_Z$	16 06.8	15					
		eLRZ	22.3	28					
		MN	31.5	19			4		
384	23	iP_Z	22 51 51	1			+		Comp. Sprengnether
		iPP_Z	53 45	1½			+		" "
385	24	iP_Z	04 42 02	1½			+		Comp. Sprengnether
387	26	$(iP)_Z$	09 05 07	2			-		Dil. Sprengnether
		i_Z	05 31	3			+2		
		e_N	10 16						
		e_E	11 45	12					
		eL_Z	13.3	25					
		MN	15.4	10	3				
		MEZ	16.6	10		1	4		
388	26	iP_Z	20 59 42	1			+		Comp. Sprengnether
		$(iS)_N$	21 03 58	4	-2				
389	27	iP_Z	06 53 51	1			+		Comp. Sprengnether
		$i(pP)_Z$	54 17	1			+		" "
		$i(sP)_Z$	54 33	1½			+		" "
		i_N	58 54	4	-2				
390	28	$e(PP)_Z$	20 34 00						
		e_Z	43 02						
		ePS_Z	43 45						
		i_Z	43 55	11					
		$ePPS_Z$	45 11	19					
		$e(SS)_Z$	49 50	19					
		eSS_Z	50 35	24					
		eLRZ	21 09.5	30					
		MZ	20.2	18			5		
		W_2 MZ	22 34.5	21			6		

1955, August-September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
391	Aug.29	$i(S)_N$	11 10 02	4	+2				
		eL_E	12.2	16					
392	29	$e(SKS)_N$	15 57 26						
		eE	57 47						
		i_N	57 52	5	-1				
		eLR_N	16 16.7	22					
393	30	iZ	03 36 30	1½			+		Comp. Sprengnether
		ME	46.3	14		1			
395	30	$e(sS)_E$	17 56 00	9					
396	30	iPZ	20 11 28	1½			+		Comp. Sprengnether
		$i(pP)Z$	11 38	1½			+		" "
		$i(S)NE$	15 17	4	-1	-1			
		i_N	15 35	4	-1				
		eE	15 48	7					
		eL_E	17.2	18					
		MN	19.0	14	1				
397	31	$iPNZ$	10 41 05	6	+5		+	2670	Compression.PZ from
		iZ	41 08	5			-5	24°0	Dil. \ Spreng.
		iZ	41 59	5			+4		H 10 35 48
		i_N	42 10	6	+4				
		i_N	42 21	5	-3				
		$iPcPZ$	44 47	1½			+		Comp. Sprengnether
		eS_E	45 20	10					
		i_{NE}	45 33	7	-4	+9			
		iE	45 48	7		+11			
		i_N	45 57	7	-5				
		iE	46 02	8		-5			
		eL_N	46.4	26					
		eLZ	46.5	24					
		eL_E	46.9	19					
		MNZ	48.7	16	11		11		
		ME	49.0	10		6			
		$iScS_E$	52 08	7		-8			

Minor activity:1d 04.1h; 5d 16.9h; 7d 12.8h; 11d 19.8h; 15d 15.3h; 24d 06.1h; 30d 14.1h.

400	Sept.2	$(iP)Z$	13 22 25	3			+2		Masked by micros.
401	2	iZ	21 29 23	1½			+		Comp. Sprengnether
		iZ	29 44	1½			+		" "
		i_N	30 01	3	-2				
		iE	30 07	3		+4			
		iZ	30 20	2			+		" "
		eL_N	32.9	18					
402	3	iE	12 52 52	4		+3			
		$ePKPZ$	55 05						
		ePP_E	56 46	5					
		$ePPZ$	56 49						
		$iPPP_E$	59 52	4		+3			
		$eSKS_E$	13 02 07	9					
		iE	03 38	10		+3			
		eSP_E	06 28	15					
		eZ	06 38	15					
		ePS_E	06 44	16					
		$eSPP_E$	07 47	15					
		eSS_N	13 17	16					
		eSS_E	13 20	28					
		eN	16 52	15					
		eE	16 55	24					
		eL_N	27.2	30					
		eL_{EZ}	32.3	30					
		MN	38.1	18	4				
		MEZ	40.9	18		4	7		

1955, September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
403	Sept.3	iP_{NEZ}	16 31 01	3	+5	-3	-15	4800	Dilatation
		ipP_{EZ}	32 04	3		-4	-7	43°2	h 300 km.,
		iE	32 29	5		+6			H 16 23 23
		isP_Z	32 30	4			+10		(Gutenberg
		iN	32 33	6	+11				Tables used.
		iZ	34 13	5			+8		
		$isPP_{NE}$	34 16	6	+19	-16			
		iN	34 25	6	-20				
		iE	34 31	6		-14			
		iS_N	37 04	5	-5				
		iZ	37 08	5			+14		
		iE	37 09	7		-63			
		iN	37 12	5	+10				
		$isSE$	38 50	7		-28			
		iN	39 09	7	-27				
		iN	39 59	6	-9				
		iN	40 17	7	+20				
		$iScSE$	40 25	4		+22			
		iSS_Z	40 27	5			+15		
		iNZ	40 32	5	+31		-31		
		iN	40 37	7	-90				
		iE	40 38	7		+62			
		iE	40 49	6		+42			
		iN	41 00	6	+37				
		iE	41 42	5		+22			
		iE	42 01	7		+32			
	4	iZ	06 19 59	1½			+		Comp. Sprengnether
404	4	eN	07 03 28						
		eL_Z	27.0	22					
		MNZ	36.9	15	1	1			
405	4	iP_Z	11 25 44	2			+	2620	Comp. Sprengnether
		iZ	25 48	1½			-	23°6	Dil. Sprengnether
		iNZ	25 51	3	-1		-2		
		iS_E	29 56	4		-3			
		iS_N	29 57	4	+3				
		iE	30 03	4		+3			
		eL_{NEZ}	31.1	16					
		MNE	33.2	10	3	3			
		MZ	33.6	10			2		
406	4	$i(PP)_Z$	11 48 45	1½			+		Comp. Sprengnether
		$(SKS)_N$	54 41						Masked by coda of
		iN	56 07	4	+3				No.405
408	5	$e(S)_E$	07 09 47						
409	5	$(i)_Z$	14 25 55	1½			+		Comp. Sprengnether
		$(P)_Z$	26 42	2					Sprengnether
		$i(PPP)_Z$	27 05	1½			+		Comp. Sprengnether
		$e(S)_E$	29 58	4					
		$e(LQ)_N$	30 02	13					
		eLR_Z	30.8	18					
		T_Z	44.0	½					
410	5	iP_Z	17 20 08	2			+1	4360	Compression
		ipP_Z	21 53	1½			+	39°3	Comp.Sprengnether
		iS_N	25 28	4	-1				h 0.09
		iS_E	25 29	4		-3			H 17 13 28
		iE_Z	28 55	5		-4	+3		
411	7	iP_Z	03 31 48	1½			-	9250	Dil. Sprengnether
		ePP_Z	35 03					83°2	H 03 19 19
		eS_N	42 08						
		eN	42 19						
		eSS_N	47 38						
		$eSSS_E$	50 58						
		eL_N	58.0	22					
		MZ	04 07.2	19			1		
		ME	07.4	19		1			
		MN	10.1	18	2				

1955, September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
412	Sept.8	iP_Z	02 16 18	4			+4	9340	Compression
		$iPcP_Z$	16 24	3			-2	84°0	
		$i(SKS)_N$	26 30	7	+3				
		iS_E	26 42	7		+10			
		eSS_E	32 25	15					
		eN	34 43	27					
		i_N	36 05	8	+6				
		eN	36 14	16					
		eL_N	38.5	25					
		iE	38 40	16		-15			
		ME	47.5	17			8		
		MNZ	51.9	18	17		17		
413	8	iP_Z	03 33 05	1½			+	2990	Comp. Sprengnether
		iZ	33 09	1½			+	26°9	" "
		iZ	33 17	3			+8		
		iZ	33 23	1½			+		" "
		iN	33 40	5	+8				
		iZ	33 42	4			-5		
		iZ	33 54	4			+7		
		iZ	34 35	4			+11		
		iN	34 36	4	-6				
		iN	34 48	4	-6				
		iE	34 53	4		+5			
		iE	35 15	4		-5			
		iN	36 39	4	+3				
		iE	36 43	4		-3			
		$i(S)_N$	37 36	4	+4				
		iS_N	37 41	4	+				
		iN	37 44	9	+38				
		iE	37 50	5		+10			
		iN	37 55	8	-87				
		iZ	37 56	7			+13		
		iE	37 57	6		-16			
		iN	38 05	8	+100				
		iZ	38 06	7			-25		
		iE	38 07	7		+20			
		iZ	38 23	7			-27		
		iN	38 24	8	+89				
		iN	38 40	8	+49				
		iE	38 47	7		-22			
		iN	38 51	8	-54				
		iE	38 57	6		+23			
		iE	39 07	6		+28			
		iN	39 13	7	-29				
		iE	39 49	9		+45			
		eL_E	40.4	27					
		eL_N	40.6	31					
		MN	43.5	16	85				
		MZ	43.7	16			66		
		ME	44.7	14		36			
414	8	$(iP)_Z$	04 56 52	3			-2		Masked by No.413
417	9	iP_Z	09 51 48	3			+2	6380	Compression
		iZ	52 00	3			-2	57°4	H 09 41 55
		iS_N	59 44	6	+4				
		iS_E	59 45	4		+3			
		iE	10 00 06	5		+2			
		iN	00 08	4	+3				
		$iScS_{NE}$	01 36	4	+3	+3			
		eLR_N	09.0	30					
		MN	13.4	15	5				
		MZ	15.5	24			6		
		ME	15.8	25		5			
		iN	16 26	7	-5				

1955, September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
418	Sept.9	iP_Z	16 26 57	3			-2	3000	Dilatation
		i_{NZ}	27 01	3	-3		+5	27°0	H 16 21 12
		iZ	27 10	4			+5		
		i_N	27 18	4	+4				
		iZ	27 24	3			+6		
		iPP_{NZ}	27 42	4	-6		+6		
		i_N	27 51	6	-5				
		iZ	30 53	4			+4		
		i_E	30 55	4		+5			
		iS_E	31 34	5		+5			
		i_N	31 38	6	+8				
		iZ	31 40	5			+4		
		i_N	31 44	6	-8				
		iZ	31 52	5			+9		
		i_N	32 13	6	+17				
		i_E	32 36	5		+7			
		iSS_N	32 47	5	+13				
		$iSSS_E$	33 02	8		+12			
		i_E	33 18	5		+14			
		eL_N	34.8	24					
		ME	36.0	14		19			
		MNZ	41.9	13	18		19		
419	10	iP_Z	07 39 50	1½			+		Comp. Sprengnether
		i_E	44 43	4		+3			
		i_E	44 49	4		-2			
	10	$(iP)_Z$	09 42 22	1½			+		Comp. Sprengnether
420	10	iP_Z	21 13 46	1½			+	5750	Comp. Sprengnether
		iS_{NE}	21 07	4	-1	-2		51°7	
		MN	33.2	13					
421	11	$e(S)_E$	12 35 06	7					
		eL_Z	36.3	19					
422	11	iP_Z	18 00 15	2			-	2980	Dil. Sprengnether
		i_{NZ}	00 18	5	-6		+9	26°8	H 17 54 31
		iPP_{NZ}	01 01	6	-9		+8		
		$iPPP_Z$	01 10	6			-6		
		$iPPP_N$	01 11	5	+7				
		i_N	01 16	6	-10				
		i_{NZ}	01 24	5	+9		-4		
		iS_N	04 50	8	-24				
		i_{NE}	05 07	5	+16	-8			
		i_E	05 12	7		-11			
		i_Z	05 14	9			-45		
		mNE	05 18	10	24	13			
		i_{NE}	05 27	9	-34	+18			
		iZ	05 39	6			+17		
		i_N	05 40	9	-34				
		i_E	05 43	7		+16			
		iSS_N	05 59	8	-24				
		i_N	06 11	5	+14				
		i_E	06 12	7		-18			
		i_E	06 29	8		-38			
		i_{NE}	06 52	8	+35	-27			
		i_N	07 07	8	+40				
		i_N	07 25	8	-31				
		i_E	07 26	8		+47			
		i_N	09 36	7	+21				
		ME	10.5	13		50			
		MNZ	11.0	14	64		53		
423	11	iP_Z	18 10 02	1½			+		Comp. Sprengnether
		iZ	10 08	4			+12		Confused by coda
		$i(S)_N$	14 41	11	+45				of No.422
		i_N	14 53	7	+16				
		ME	20.3	13		51			
		MZ	20.9	15			54		
		ME	21.3	13	62				

1955, September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
424	Sept.12	e_N	01 58 01	11					
		eL_{NE}	02 01.3	18					
		MNZ	04.5	14	4		11		
		ME	04.7	13		3			
425	12	iP_Z	06 19 16	1½			+		Comp. Sprengnether
426	12	$iPKP_Z$	06 28 37	4			-9		Dilatation.
		$ipPKP_Z$	28 55	1½			+		Comp. Sprengnether
		i_E	30 18	5		+3			
		iPP_Z	30 59	2			+		" "
		$iPKS_E$	32 04	7		-4			
		i_Z	32 40	9			+6		
		i_E	38 24	6		-2			
		i_N	38 58	8	+4				
		$iPPS_E$	42 47	8		+4			
		eNZ	44 23	12					
		i_E	44 27	12		+9			
		eNE	46 47	10					
		i_N	47 52	8	+8				
		$eSSP_E$	48.9	15					
		$eSSS_E$	53 16	16					
		eL_N	07 07.0	30					
		MEZ	20.9	20		2	6		
		MN	22.2	19	3				
427	13	iP_Z	02 13 42	3			+2		Compression
		i_Z	14 01	1½			+		Comp. Sprengnether
		$i(SKS)_E$	23 26	4		-2			
428	13	iP_Z	17 07 55	4			-2	4810	Dilatation
		iS_E	14 23	7		-3		43°3	H 16 59 50
		i_N	14 31	6		+3			
		i_E	17 47	7		-4			
		eLQ_N	18.2	?					
		eLR_Z	20.1	30					
		MN	21.9	20	7				
		MZ	22.7	20			13		
		ME	22.9	20		11			
429	13	iP_Z	17 44 41	1½			+		Comp. Sprengnether
		i_N	50 41	4	+3				
		i_N	56 25	4	+4				
		i_E	57 27	4		+4			
431	15	iP_{NZ}	12 37 07	4	+4		-4	3710	Dilatation
		$i(pP)_{NZ}$	37 21	6	+11		-19	33°4	H 12 30 29
		$iPPP_{NZ}$	38 33	7	-6		+7		
		iS_N	42 25	9	+17				
		i_E	42 30	9		+16			
		$i(sS)_{NE}$	42 44	10	-22	+19			
		eL_N	42.9	19					
		eL_E	43.2	31					
		iSS_N	44 30	10	+21				
		i_{NE}	45 00	7	-24	-13			
		i_E	45 28	7		+20			
		MN	50.2	6	63*				*MN & ME from
		ME	50.4	9		96*			the Mainka.
432	16	iP_Z	04 48 05	2			-		Dil. Sprengnether
		e_E	52 35	8					
		e_N	52 54	9					
		eL_N	53.6	21					
		i_N	54 31	4	+3				
		i_E	54 33	6		+3			
		eL_Z	55.6	22					
		MN	56.8	17	4				
		MZ	57.5	18			5		
		ME	58.6	15		1			
433	16	$(iP)_Z$	07 06 19	1½			+		Comp. Sprengnether
		MN	15.3	16			1		

1955, September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
434	Sept.17	iP_Z	12 00 25	1½			+	2570	Comp. Sprengnether
		eZ	00 47					23°1	Heavy microseisms
		iS_N	04 33	7	-8				present.
		iS_E	04 34	6		-7			
		iZ	04 39	6			+13		
		eL_E	06.2	23					
		MN	07.5	19	9				
		MEZ	08.2	15		5	7		
		MN	11.6	13	12				
435	17	iP_Z	14 54 40	1½			+	2560	Comp. Sprengnether
		$i(pP)_Z$	54 55	2			-3	23°0	Heavy microseisms
		iS_E	58 47	5		-4			present.
		iS_N	58 48	5	+8				
		iZ	58 52	5			+7		
		iN	58 55	5	-7				
		iN	59 21	5	+				
		eL_Z	15 00.7	22					
		MZ	02.1	16			5		
436	17	iP_Z	18 21 41	1½			+	2510	Comp. Sprengnether
		iS_N	25 45	6	+6			22°6	Heavy microseisms
437	17	$i(PP)_Z$	20 03 10	3			+5		
		iZ	03 58	4			+6		Masked by heavy
		iN	06 30	4	+4				microseisms.
		iE	07 00	4		+2			
		$i(SS)_{NE}$	07 56	4	+3	-4			
		eL_Z	10.4	20					
438	18	$(i)_Z$	01 18 59	4			+5		Masked by heavy
		iS_N	24 53	6	+8				microseisms.
		iE	24 57	6		-5			
		iN	25 12	6	-6				
		iN	25 38	5	+6				
		eL_N	26.6	18					
439	20	iP_Z	13 25 59	1½			-	3140	Dil. Sprengnether
		iE	26 02	7		+8		28°2	H 13 20 03
		iN	26 03	7	-3				
		$i(pP)_Z$	26 10	1½			-		Dil. Sprengnether
		iNZ	26 23		+3		+		Comp. "
		iE	26 28	6		+13			
		iZ	26 38	2			+		" "
		iE	26 40	6		-6			
		iZ	26 52	2			+		" "
		$iPPPE$	27 02	7		-12			
		iNE	27 38	5	+8	+8			
		iE	27 58	7		-6			
		iN	28 07	5	+5				
		iN	28 39	5	-7				
		iE	28 40	7		-13			
		iN	29 05	7	+7				
		iE	29 10	7		-4			
		iN	29 16	9	+9				
		iE	29 31	7		-8			
		iE	29 55	9		+10			
		iN	30 10	7	-8				
		iE	30 42	7		+7			
		iS_N	30 44	7	+9				
		iN	30 55	9	+17				
		iE	30 58	7		+16			
		iE	31 18	8		+16			
		iN	31 19	8	+10				
		iN	31 33	8	+29				
		iN	31 54	9	+51				
		eL_N	32.1	19					
		iE	32 23	8		-10			
		eL_E	33.0	21					
		MN	34.7	16	68				
		ME	35.3	17		31			

1955, September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
440	Sept.20	$i(P)_Z$	22 53 01	2			-		Dil. Sprengnether
		eL_N	59.9	17					
441	21	iP_Z	06 44 40	1			+	2570	Comp. Sprengnether
		i_Z	44 41	3			-2	23°1	Dil.
		i_N	44 43	4	-1				h 0.00
		ipP_{NEZ}	44 48	3	-6	-6	+12		H 06 39 36
		isP_{NE}	44 55	3	+3	+4			
		isP_Z	44 56	3			+19		
		i_{NEZ}	45 02	3	+6	+8	-12		
		iPP_{NE}	45 11	3	+5	+7			
		$iPPP_N$	45 22	3	+6				
		iEZ	45 30	4		+7	+5		
		i_N	45 50	3	+6				
		iS_N	48 45	5	-25				
		iS_E	48 46	5		-11			
		i_{NE}	48 49	5	+68	+54			
		i_Z	48 52	6			+27		
		isS_{NE}	49 00	6	-46	+23			
		i_Z	49 09	5			+10		
		i_N	49 23	7	-14				
		i_Z	49 26	6			-8		
		$iSSS_N$	49 48	7	+8				
		i_N	50 17	6	-16				
		i_E	50 23	6		-5			
		i_N	50 27	6	+15				
		eL_Z	50.5	24					
		eL_N	50.7	19					
		eL_E	50.9	24					
		$MNEZ$	52.4	18	23	16	27		
		i_Z	55 40	4			-5		
442	21	iP_Z	13 34 27	1½			+	2720	Comp. Sprengnether
		i_E	34 39	6		-2		24°5	
		i_Z	34 42	5			-4		
		$iPPP_Z$	35 12	1½			+		Comp. Sprengnether
		i_Z	35 22	6			-4		
		i_E	35 26	6		-3			
		iS_E	38 45	7		+6			
		i_N	39 09	8	+5				
		i_E	39 10	7		+6			
		i_Z	39 18	7			-6		
		i_N	40 10	6	+7				
		eL_Z	42.3	24					
		MN	43.1	15	4				
		MZ	44.1	17			7		
		ME	44.4	16		3			
443	21	$i(P)_Z$	22 48 54	1½			-		Dil Sprengnether
		i_Z	48 57	1½			+		Comp. "
		i_Z	49 26	1½			+		" "
		$e(S)_N$	53 49						
		eL_E	56.6	24					
		ME	59.7	16		5			
		MN	59.9	15	4				
		MZ	23 01.1	15			6		
		i_N	02 51	10	+11				
444	22	iP_Z	03 35 46	3			+3	7000	Compression
		i_N	35 48	3	-1			63°0	
		i_Z	36 02	1½			+		Comp. Sprengnether
		i_Z	36 04	3			+4		
		i_Z	36 24	4			-7		
		i_N	37 15	5	+2				
		iPP_N	38 05	5	+3				
		i_Z	38 14	5			+4		
		iS_E	44 16	5		+3			
		i_N	44 28	5	+3				
		i_E	44 33	6		-5			
		i_N	44 43	7	+10				

(Continued on page 47)

RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per s	Amplitude A_N μ	A_E μ	A_Z μ	Δ km.	Remarks
	1955								
444	Sept.22	i_E	06 45 07	6		-5			
cont.		i_N	45 10	6	-6				
		i_N	45 45	6	+6				
		i_N	46 22	6	+5				
		e_Z	51 24	16					
		i_N	52 39	7	-5				
		i_N	54 43	7	+7				
		eL_E	55.7	25					
		MNEZ	04 03	17	6	6	9		
445	22	iP_Z	04 04 57	1½			+		Comp. Sprengnether
		i_E	10 59	4		+4			Masked by coda of
		i_N	11 01	4	+3				No.444
446	22	iP_Z	05 40 25	1½			-	3390	Dil. Sprengnether
		i_Z	40 32	1½			+	30°5	Comp. "
		i_Z	41 22	1½			-		Dil. "
		iS_N	45 27	6	+11				
		i_N	45 43	6	-3				
		i_N	45 55	6	-5				
		i_N	46 16	7	+14				
		i_N	46 37	7	-8				
		iSS_E	47 09	5		-3			
		i_N	47 11	6	-5				
		eL_Z	48.3	24					
		i_E	48 34	4		+6			
		ME	51.7	13		17			
		MZ	52.6	13			15		
		MN	54.5	12	16				
447	23	iP_Z	15 18 10	3			+7	8550	Compression
		iS_N	27 54	5	+4			76°9	h 0.00
		iS_E	27 56	6		+6			H 15 06 19
		$iSKS_N$	28 13	5	-4				
		$iScS_E$	28 20	4		+7			Large microseisms
		iPS_N	28 36	6	+7				present.
		e_Z	36.9	23					
		eLQ_N	39.6	22					
		eLR_N	43.3	24					
		MNZ	52.1	20	23		12		
		ME	54.5	20		10			
448	23	iP_Z	15 23 41	4			-4		Dilatation
		i_N	29 19	4	+5				Confused byNo.
		i_N	29 29	4	+7				447 & large
		i_E	29 48	4		+6			microseisms.
		i_N	29 52	4	+6				
		i_E	30 24	4		-7			
		i_E	31 42	4		+5			
		i_E	32 35	4		+7			
		$e(L)_N$	33.0	?					
		i_N	34 30	4	-6				
449	23	$i(P)_Z$	19 22 32	4			+4		Compression
		i_N	22 50	4	+5				Large microseisms
		i_N	26 22	6	+5				present.
450	24	iP_Z	02 06 24	4			+4	3020	Compression
		i_Z	06 28	4			-5	27°2	
		i_Z	06 36	3			-7		
		i_{EZ}	06 52	4		+5	-4		
		i_E	07 03	5		-3			
		$iPPP_Z$	07 24	5			-8		
		i_{EZ}	07 32	5		+6	-7		
		i_E	07 55	4		-4			
		i_N	08 00	4	-3				
		i_E	08 03	4		+8			
		i_N	08 08	5	-4				
		i_N	08 09	6	+4				
		i_N	09 31	5	+4				
		iS_E	11 02	5		-4			

(Continued on page 48)

1955, September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per s	Amplitude A_N μ	A_E μ	A_Z μ	Δ km.	Remarks
	1955								
450 cont.	Sept.24	i_N	02 11 15	6	-4				
		i_E	11 24	4		+5			
		i_Z	11 28	5			+7		
		i_N	11 29	4	-4				
		i_E	11 33	4		+4			
		i_E	11 47	4		+5			
		i_Z	11 49	4			+6		
		i_N	12 22	9	+13				
		eL_E	13.6	18					
		MN	15.7	15	15				
		MZ	15.9	18			17		
		ME	16.3	19		15			
		i_N	25 03	4	+8				
		i_N	45 48	3	-3				
451	24	$(iP)_Z$	10 31 59	1½			+		Comp. Sprengnether
		$i(S)_N$	40 30	4	+4				
		$i(ScS)_N$	41 55	4	+3				
		MNZ	58.2	18					
452	24	iP_Z	19 57 17	4			-4	3030	Dilatation
		eS_E	20 01 56	?				27°3	
		$e(L)_N$	02.5	19					
		eL_N	05.9	15					
		MN	09.6	13	2				
453	25	iP_Z	19 07 46	4			+4	5140	Compression
		i_Z	08 00	4			+4	46°3	h 0.01 ca
		ipP_Z	08 09	4			+5		H 18 59 28
		i_N	08 10	5	-3				
		isP_Z	08 17	3			+7		
		i_Z	08 34	4			+4		
		i_Z	08 43	3			+5		
		iPP_Z	09 34	4			+4		
		i_Z	10 01	4			-4		
		i_Z	10 08	4			-4		
		$iPPP_N$	10 24	4	-2				
		i_N	10 34	4	-2				
		iS_N	14 25	7	-7				
		iS_E	14 26	6		-7			
		i_N	14 37	7	-8				
		i_E	14 38	7		-5			
		i_N	14 52	7	-5				
		i_E	14 56	5		+5			
		$i(ScS)_{NE}$	17 37	5	-5	-5			
		iSS_{NE}	17 49	9	+16	+16			
		i_N	18 03	8	+9				
		i_E	18 04	8		+11			
		i_E	18 16	8		+11			
		$iSSS_N$	18 55	7	+6				
		i_N	20 15	7	+11				
		i_E	20 21	5		-5			
		i_N	23 34	5	-4				
		i_E	23 56	5		-5			
		i_N	25 20	6	-6				
		eL_E	26.1	27					
		i_N	26 26	7	-11				
		i_E	27 04	8		-5			
		MN	28.2	18	7				
		MZ	29.3	19			6		
454	26	$e(S)_N$	07 45 52						
		$e(SS)_N$	47 42						

1955, September.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
455	Sept.26	$iPKP_Z$	08 47 01	3			+3	13,300ca	Compression
		iPP_Z	48 30	4			-5	120°ca	h 200 km.,
		iPP_E	48 31	4		+2			H 08 28 30
		$ipPP_{EZ}$	49 14	6		-2	-3		(Gutenberg
		$isPP_E$	49 37	6		-2			Tables used)
		$isPP_Z$	49 39	7			-8		
		iZ	50 54	8			-4		
		iE	51 46	6		+3			
		iZ	51 47	6			-4		
		$iSKS_{NE}$	53 44	5	-2	-6			
		$iSKKS_N$	54 40	4	-1				
		iN	55 12	7	+3				
		$isSKS_E$	55 15	6		+11			
		iSE	56 03	6		-2			
		iE	56 42	7		-3			
		iN	56 45	5	+3				
		iSP_E	58 03	7		-2			
		$iSKSP_{EZ}$	58 18	8		-8	+15		
		$iPSE$	58 32	8		+8			
		$iPSKS_E$	58 42	7		+7			
		$iPSKS_Z$	58 43	7			-2		
		iE	58 58	7		-4			
		iZ	59 02	8			+6		
		$iSPP_Z$	59 16	9			-11		
		iE	59 33	9		-5			
		$iPPS_Z$	59 40	8			+5		
		$iPPS_E$	59 43	8		+10			
		iE	59 59	6		+5			
		iSS_{NZ}	09 04 36	9	-4		-5		
		iN	04 54	8	-4				
		iE	05 10	7		+5			
		eZ	05 23	10					
		iZ	05 43	7			-6		
		$esSS_N$	06 01	?					
		iN	06 10	10	-6				
		iE	08 28	6		+5			
		iN	09 43	8	+4				
		eG_N	18.5	37					
		eL_N	19.6	37					
456	27	eZ	07 06 23						
		$e(S)_E$	10 53						
		eL_N	12.4	15					
		MN	15.5	14	2				
458	30	$(P)_Z$	03 17 32						Masked by micro-
		$i(PP)_Z$	19 19	3			-2		seisms.
		$e(S)_N$	24 28						
		$e(SS)_E$	27 49						
		iN	27 53	5	-2				
		$e(LQ)_N$	29.0	24					
459	30	iP_Z	07 10 15	4			-2	5170	Dilatation
		iPP_Z	12 05	4			-4	46°5	H 07 01 44
		iPP_N	12 07	4	+3				
		iN	16 49	4	-2				Microseisms pres-
		eS_N	17 04	9					ent.
		$e(SS)_N$	20 27	8					
		eE	20 36	9					
		iE	21 02	6		+6			
		eL_N	23.5	?					
		ME	29.8	15		2			
		MN	31.4	16	2				
		MZ	31.6	18			3		

Minor activity: 1d 06.0h; 2d 03.8h; 4d 19.8h; 8d 17.9h, 20.7h; 14d 08.5h; 28d 02.5h; 30d 17.6h.

T.N.BURKE-GAFFNEY,S.J.
Director.

P.F.RHEINBERGER.

Riverview College Observatory

RIVERVIEW, N.S.W.

SEISMOLOGICAL BULLETIN

$\Phi = 33° 49' 46''$ S. $\lambda = 151° 9' 30''$ 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. Gailitzin Aperiodic Seismometer with Galvanometer registration (NS, EW, Vert)
5. Sprengnether Vertical.

		V	T_o	$\epsilon : l$	$\frac{T}{T_o^2}$		T_1 (Galv.)	T (Pend)	μ^2	V_s
N	1					4	11.7	12.1	+0.02	560
	3	195	8.7	6.2	0.02					
E	1					4	12.3	12.2	+0.08	490
	3	157	9.2	5.8	0.01					
Z	2					4	10.9	10.6	+0.1	460
						5	1.6	1.6		

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h. m. s.	s.	μ	μ	μ	km.	
462	Oct. 1	iP_Z	18 53 58	2			+4	2420	Compression
		ipP_Z	54 12	3			+3	21°8	h 0.005, H 18 49 10
		iPP_Z	54 26	2			+		PP from Sprengnether
		iS_N	57 50	5	+4				
		$iPcP_E$	57 56	5		-4			
		isS_N	58 13	6	+5				
		i_N	58 22	6	+4				
		eL_N	59.0	18					
		MN	19 01.6	14	2				
463	2	iP_Z	19 41 41	3			+4	3100	Compression
		eS_N	46 24	6				27°9	H 19 35 47
		eL_N	49.2	19					
		MN	51.0	14	8				
464	3	iP_Z	10 07 18	3			+3		Compression
		iZ	07 45	4			-2		Large microseisms
		iE	12 06	6		-3			present.
		iE	13 25	4		+7			
		i_N	14 09	5	-4				
		i_N	15 05	4	+4				
		eL_N	15.3	16					
		MN	18.5	12	6				
465	4	$(iP)_Z$	07 31 52	4			+4		Large microseisms
		$(i)_N$	34 36	4	+3				present.
		i_N	37 53	4	-1				
		e_N	38 54	10					
		i_N	39 13	6	-5				
		i_N	40 09	4	-3				
		i_N	40 16	8	-9				
		eL_N	40.5	21					
		eL_E	40.7	18					
		MN	42.6	13	13				
466	5	iP_Z	09 10 46	1½			+	9780	Comp. Sprengnether
		iZ	11 07	1½			+	88°0	" "
		$eSKS_N$	21 13	7					H 08 57 53
		eS_N	21 29	7					
		$e(SS)_N$	27 38	16					
		eL_N	40.6	24					

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
467	Oct. 6	iP_Z	11 16 44	3			+2	11,110	Compression
		$i(sP)_Z$	17 43	3			-2	100°0	h 175 Km.ca.
		$i(PP)_Z$	20 43	5			-3		H 11 03 16
		e_Z	21 03	6					(Gutenberg
		$i(sPP)_Z$	21 54	4			+3		Tables used)
		i_Z	22 51	4			+2		
		i_Z	26 51	4			-4		
		$iSKS_E$	27 01	5		+4			
		$iSKSNZ$	27 02	5	-8		+3		
		i_E	27 52	6		-3			
		iS_N	28 03	5	-4				
		i_Z	28 04	4			-3		
		$isSKS_E$	28 22	6		+5			
		$isSKS_N$	28 23	6	-6				
		e_N	29 06	12					
		i_N	29 15	7	-3				
		iSP_Z	29 27	6			-4		
		iPS_Z	29 51	5			-3		
		$e(SPP)_Z$	30 29	6					
		i_N	30 36	7	+5				
		i_N	30 58	8	+4				
		iSS_N	34 57	6	+3				
468	6	iP_Z	17 53 37	1½			+	2430	Comp. Sprengnether
		i_Z	53 46	1½			-	21°9	Dil. "
		iS_N	57 35	6	+2				H 17 48 40
		eL_N	59.6	15					
472	8	$i(P)_Z$	21 11 34	4			+3		Compression
		$e(S)_E$	16 16	6					Masked by micro-
		eL_E	19.2	22					seisms.
		M_N	20.7	13	3				
		M_E	23.0	16		3			
473	9	$iPNZ$	17 46 10	4			-4	3240	Dilatation
		ipP_Z	46 27	4			-4	29°1	h 0.005
		i_N	46 28	4	+3				H 17 40 13
		iPP_Z	47 06	4			+4		
		iPP_N	47 08	4	-3				
		iS_N	50 56	5	+3				
		e_E	51 21	21					
		isS_N	51 23	10	+29				
		i_N	51 34	10	-25				
		i_N	52 17	7	+13				
		i_Z	52 19	5			-7		
		iSS_E	52 27	6		-11			
		i_{EZ}	53 04	5		+7	+7		
		i_E	53 23	5		+9			
		eL_{EZ}	54.3	25					
		i_E	54 55	4		+14			
		M_{NEZ}	56.6	18	27	25	29		
474	10	$ePNZ$	09 03 45					3180	
		iN_Z	03 50	6	-11		+16	28°6	Compression
		i_Z	04 14	4			+18		H 08 57 45
		i_Z	04 33	4			+16		
		iPP_Z	04 37	6			-21		
		iPP_N	04 38	6	+24				
		i_Z	04 56	4			+7		
		i_N	04 57	6	+31				
		i_N	08 29	7	+32				
		iS_N	08 33	10	-93				
		i_E	08 38	6		+15			
		i_Z	08 50	9			+53		
		iN_E	08 55	13	-185	+			
		i_E	09 00	9		+66			
		i_Z	09 03	9			-73		
		i_N	09 09	13	-330				
		i_E	09 10	9		+40			
		i_E	09 45	9		-46			
		iSS_E	10 00	9		+57			

(Continued on page 52)

1955, October.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
474 cont.	Oct.10	eL_N	09 11.1	40					
		ME	13.6	19		250			
		MN	14.2	19	170				
		MZ	14.5	18			190		
		MEZ	18.9	15		300	190		
		MN	19.8	15	190*				*from Mainka.
		$e(W_2)_N$	11 35.4	30					
475	10	$i(P)_Z$	19 28 47	1½			+		Comp. Sprengnether
		i_Z	28 55	1½			+		" "
476	10	$i(S)_N$	21 03 56	4	+3				
		ME	10.9	21		4			
		MNZ	11.1		3		4		T_N=13s, T_Z=19s
477	11	i_E	02 13 00	4		+3			
479	11	$i(P)_Z$	17 31 28	1½			+		Comp. Sprengnether
480	12	$(iP)_Z$	00 02 53	1½			+		Comp. Sprengnether
		eL_E	12.6	18					
481	12	$i(P)_Z$	03 15 18	1½			+		Comp. Sprengnether
		i_Z	15 29	1½			+		" "
482	12	i_Z	03 29 13	1½			-		Dil. Sprengnether
484	13	$(iP)_Z$	01 05 01	1½			-		Dil. Sprengnether
		eL_E	13.0	?					
		ME	15.5	16		3			
		MN	15.8	15	9				
485	13	iP_{NEZ}	09 32 15	3	-16	-10	+23	2930	Compression
		ipP_{NEZ}	32 25	3	-14	-6	+17	26°4	h 0.00
		i_Z	32 48	3			+9		H 09 26 40
		iPP_N	33 01	5	+14				
		i_{EZ}	33 09	3		-6	+7		
		$iPcP_N$	35 44	4	+14				
		i_N	36 37	5	+13				
		iS_{NE}	36 44	6	-21	+30			
		i_E	36 52	7		+42			
		i_N	36 54	6	+36				
		i_Z	36 56	6			+23		
		isS_E	37 03	8		+60			
		i_{NZ}	37 15	7	+33		+34		
		i_N	37 27	6	+64				
		i_N	37 33	10	-105				
		i_E	37 40	7		+33			
		i_N	37 46	9	-110				
		i_E	38 04	7		+41			
		i_N	38 06	7	+59				
		eL_N	38.4	26					
		i_E	38 50	7		+37			
		iMN	39 53	19	-180				
		MN	40.3	19	100				
		MZ	41.2	16			73		
		ME	42.2	16		120			
486	13	iP_Z	16 24 54	4			+5	2550	Compression
		i_Z	25 01	4			+5	22°9	H 16 19 48
		iS_{NE}	29 00	7	+6	+4			
		i_N	29 26	7	+6				
		i_N	30 03	6	+6				
		eLR_E	30.4	20					
		eL_N	30.7	20					
		ME	31.8	19		11			
		MN	32.5	15	13				
487	14	$e(P)_Z$	01 03 11						
		e_N	08 44						
		eL_N	11.9	20					
		MN	15.7	13	3				
		MZ	17.2	16			4		
		ME	17.6	16		7			

1955, October.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					AN	AE	AZ		
	1955		h m s	s	μ	μ	μ	km.	
488	Oct.14	(eP)Z	08 56 51						Microseisms present.
		iSKSN	09 07 33	4	+2				
		e(S)E	08 37						
		iN	08 39	5	+2				
		ePSE	10 03						
		eE	10 37	18					
		eSSE	15 37	19					
		eSSN	15 39	16					
		eLRE	30.2	24					
		ME	39.7	19		3			
		MZ	40.4	17			3		
		MN	41.5	16	2				
489	14	i(P)Z	14 49 58	2			+		Comp. Sprengnether
		eLNE	57.6	16					Masked by microseisms.
		MN	59.5	13	3				
490	16	i(P)Z	11 46 49	1½			+		Comp. Sprengnether
		iZ	47 08	4			+3		
		eN	51 02						
491	17	iPZ	01 14 08	1			-	3100	Dil. Sprengnether
		iZ	14 27	1½			-	27?9	" "
		iZ	14 41	1½			-		" "
		iN	15 02	4	-2				
		iE	17 15	4		+2			
		iSN	18 51	4	+2				
		iN	19 04	5	-2				
		eLQN	19.9	18					
		MNE	24.1	13	2	3			
496	19	iPZ	10 07 11	3			+3	9180	Compression
		iZ	07 21	4			-2	82?6	H 09 54 46
		iSE	17 28	7		-5			
		iN	17 46	6	+2				
		iE	17 52	6		+3			
		iN	18 24	6	+3				
		iN	18 35	6	+4				
		iSSN	22 45	6	-3				
		eLQE	29.1	45					
		eLZ	33.5	30					
		eLN	34.4	30					
		ME	36.9	24		4			
		MNZ	39.6	22	5		7		
497	20	(iP)Z	03 55 27	1½			+		Comp. Sprengnether
		iZ	55 39	1½			+		" "
		eN	04 05 39	?					
		eE	05 41	12					
		e(S)N	06 11	11					
		eN	10 45	20					
		eE	11 55	18					
		eLQ	18.5	25					
499	21	iPZ	04 42 49	2			+1	7160	Compression
		i(PcP)Z	43 19	3			-2	64?4	h 0.005
		iSN	51 21	4	+3				H 04 32 17
		iSE	51 23	4		+3			
		isSN	51 51	7	+3				
		i(ScS)E	52 30	4		+3			
		iE	55 12	4		+2			
		MN	05 05.4	18	2				
		iN	06 35	4	+4				
500	21	(iP)Z	09 38 40	4			+2		Compression
		e(S)N	43 41	?					Masked by microseisms.
		iN	43 59	5	+3				
		iN	45 12	6	+3				
		eLRE	46.3	27					
		iN	49 00	4	-3				
		ME	50.5	15		11			
		iN	50 41	4	-3				
		MNZ	53.0	15	5		7		

1955, October.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
502	Oct.21	iPNEZ	19 07 59	2	-1	-4	+9	3240	Compression
		i_{EZ}	09 26	2		-4	+6	29°1	h 0.10
		ipPNEZ	09 39	3	-4	-15	+22		H 19 02 47
		i_Z	09 53	3			+15		
		i_Z	10 23	3			-10		
		isP_E	10 54	4		-8			
		i_Z	10 56	4			-16		
		i_Z	11 16	4			-13		
		iS_{NEZ}	12 09	4	+13	+22	+30		
		iNE	12 15	5	+25	+61			
		i_E	12 26	5		-37			
		i_N	12 28	5	-14				
		i_E	12 41	5		+25			
		i_Z	12 49	4			+20		
		i_E	12 57	4		+16			
		i_N	13 18	4	+11				
		i_E	13 22	4		+15			
		i_Z	13 26	4			+11		
		$iScP_N$	13 40	4	+8				
		$iPcS_E$	14 27	4		-10			
		iN	14 30	4	-9				
		i_E	15 26	4		-10			
		i_N	15 28	6	+21				
		i_Z	15 35	5			-18		
		$iScS_N$	17 23	5	-17				
504	21	iPZ	23 17 36	1½			-	4780	Dil. Sprengnether
		ipPZ	17 44	1½			+	43°0	Comp. "
		i_Z	17 55	1½			+		" "
		i_Z	18 09	1½			+		" "
		iPcPZ	19 27	1½			+		" "
		i_Z	20 18	1½			+		" "
		iSNE	23 59	6	+8	+6			h 0.00
		i_{EZ}	24 05	6		+9	+7		H 23 09 38
		isS_{NE}	24 18		-9	+46			T_N=6s, T_E=8s.
		i_N	24 33	6	+15				
		i_N	24 42	6	+16				
		i_E	24 43	6		+16			
		iSS_E	27 03	7		+26			
		iSS_N	27 08	7	+14				
		i_E	27 15	10		-38			
		i_E	27 26	8		-27			
		$iScS_N$	27 32	4	+9				
		i_N	27 40	8	+25				
		i_E	27 44	8		+56			
		$iSSS_Z$	27 48	6			+20		
		eLE	29.5	38					
		MNE	32.7	19	41	71			
		MZ	36.0	17			44		
505	22	e(P)Z	03 42 07						
		e(S)N	47 01						
		eLE	49.8	19					
		ME	53.4	15		5			
		MN	56.3	13	2				
506	22	iPZ	06 00 31	1½			+	3210	Comp. Sprengnether
		eSN	05 21	6				28°9	H 05 54 28
		iE	06 39	5		-2			
		iSS_N	06 48	4	+2				
		eLE	07.8	28					
		ME	11.2	16		10			
		MN	14.2	16	6				
		MZ	14.4	16			5		

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
509	Oct.22	iP_Z	22 12 53	3			+2	3130	Compression
		iZ	12 58	3			+6	28°2	H 22 06 57
		iS_N	17 38	4	+3				
		iN	17 53	6	-3				
		iN	18 11	6	+8				
		iN	18 41	6	+8				
		iN	18 52	5	-6				
		iN	19 10	6	-4				
		iE	19 11	7		+9			
		iN	19 55	7					
		eL_E	20.3	30					
		ME	24.2	15		53			
		MNZ	27.1	13	21		19		
510	22	iP_Z	22 39 41	4			+4		Compression
		iZ	40 19	4			-5		Superimposed on
		iZ	41 01	4			-4		coda of No.509
		iN	42 12	4	+5				
		iN	45 36	5	+6				
		iN	47 08	5	+8				
511	22	$(iP)_Z$	22 54 38	1½			+		Comp. Sprengnether
		iZ	55 08	1½			+		" "
		iN	58 33	6	+5				
513	23	iP_Z	17 09 38	1½			-	2740	Dil. Sprengnether
		iZ	09 41	3			-3	24°6	
		iN_Z	09 45	4	-3		+7		
		eS_E	13 57	5					
		iN	14 12	6	-3				
		$i(SS)_N$	14 46	7	+5				
		iSS_E	14 53	7		+5			
		MNZ	17.6	16	3		2		
		ME	18.7	15		3			
515	24	iP_Z	05 09 01	1			+		Comp. Sprengnether
		eE	13 29	6					
		eN	13 40	15					
		iZ	13 47	1			-		Dil. Sprengnether
		iZ	13 50	1			+		Comp. "
		eE	13 50	9					
517	25	$i(P)_Z$	07 13 16	1½			-		Dil. Sprengnether
		eL_Z	23.3	17					
518	25	$i(P)_Z$	12 47 03	1½			+		Comp. Sprengnether
		eL_E	59.7	21					
522	27	iP_Z	11 12 17	1½			+	3040	Comp. Sprengnether
		ipP_Z	12 27	1½			+	27°4	" "
		eS_{NE}	16 53						h 0.00
		$esSN$	17 10						H 11 06 33
		esS_E	17 11	7					
		eL_Z	19.4	23					
523	27	iP_Z	14 26 52	3			-2	2760	Dilatation
		iZ	29 27	3			+2	24°9	
		eS_N	31 13	7					
		eL_E	33.0	27					
		MNE	35.6	15	1	2			
		MZ	36.5	13			1		
524	27	iZ	14 42 34	3			-2		Dil. Superimposed
		iN	42 40	4	+2				on Coda of No.523
525	29	iZ	02 28 08	1			+		Comp. Sprengnether
		iZ	28 30	1			+		" "
		iZ	31 32	1½			+		" "
		ME	35.9	14		2			
527	30	$e(S)_E$	11 49 03						Masked by large
		$e(SS)_E$	52 21						microseisms.
		eL_E	56.1	22					
		MNEZ	12 01.1	19	2		4		
528	30	iP_Z	19 26 07	1½			-	3220	Dil. Sprengnether
		iZ	26 12	1½			+	29°0	Comp. "
		iS_N	30 16	4	-2				h 0.10 Ca.
		iN	32 26	3	+1				H 19 20 56
		iE	33 50	4		+2			
		$iScSNE$	35 34	4	+3	-2			

1955, October-November.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
529	Oct.31	iPZ	08 30 37	4			-2	3310	Dilatation
		iSN	35 33	4	+3			29°8	H 08 24 26
		iN	36 40	7	+5				
		eLE	37.1	22					
		iN	37 15	6	-3				
		eLN	37.6	21					
		eLRE	38.3	25					
		MN	41.1	12	11				
		MEZ	41.4	15		4	3		
Minor activity: 1d 12.6h; 7d 07.6h, 08.4h, 11.1h; 11d 16.7h; 12d 08.8h; 17d 04.5h, 07.9h; 18d 01.5h, 11.4h; 21d 04.0h, 14.0h, 21.7h; 22d 11.7h, 13.1h; 23d 00.7h; 24d 00.6h; 25d 06.6h; 26d 11.8h, 20.9h; 27d 07.5h; 30d 02.2h.									
530	Nov. 1	iPgZ	05 59 52	0.1			(+)	0°3	Comp.? Sprengnether
		iSgZ	59 56	0.3			-		Dil. "
533	1	iPZ	15 19 06	1½			+	2410	Comp. Sprengnether
		iSE	23 02	6		-3		21°7	
		iSN	23 04	4	+4				
		iN	23 10	5	-3				
		iE	23 20	5		+4			
		eLRE	24.5	21					
		iN	25 36	5	+4				
		MNEZ	26.6	15	2	3	2		
535	4	(iP)Z	01 58 51	1			-		Dil. Sprengnether
		iZ	59 13	1			+		Comp. " Masked
		e(L)E	02 08.0	18					by microseisms.
536	4	(iPP)Z	23 01 54	1			+		Comp. Sprengnether
		(iPPP)Z	04 04	1½			+		" "
		i(S)E	09 08	4		+1			Masked by micro-
		i(S)N	09 09	4	-1				seisms.
		i(sS)E	10 02	4		+3			
		i(SS)E	16 15	?		+			
537	5	iPEZ	03 58 17	4		-2	+3	2490	Compression
		ipPZ	58 38	4			-2	22°4	h 0.01
		iSN	04 02 12	4	+4				H 03 53 26
		iE	02 14	7		-7			
		isSN	02 46	4	+5				
		iZ	02 49	6			+5		
		eLN	03.0	23					
		MN	05.7	13	2				
		MEZ	07.0	15		2	2		
538	5	iN	12 40 45	3	+2				
540	10	iPPZ	01 31 18	4			-2		P obscured by
		iSN	35 14	6	-3				microseisms
		iN	35 41	6	-5				
		iE	36 45	5		-3			
		iN	36 48	7	-3				
		ME	41.6	12		15			
541	10	iPEZ	01 51 05	4		-6	+14	3990	Compression
		ipPE	51 25	4		+7		35°9	h 0.01
		ipPZ	51 26	4			+14		H 01 44 12
		iZ	52 07	4			-18		
		iPPE	52 29	7		+10			
		iE	52 33	7		-19			
		iZ	52 35	6			-19		
		iN	52 59	7	-12				
		iEZ	53 11	6		-13	+26		
		iZ	56 34	6			+16		
		iSN	56 35	6	+14				
		iSE	56 36	6		+13			
		iZ	57 07	4			+15		
		isSN	57 10	5	+9				
		iN	57 29	5	+10				
		iSSN	59 01	5	+7				
		iN	59 27	9	-23				
		eLN	59.9	26					
		iScSE	02 01 16	4		-30			
		iScSN	01 18	6	-24				

1955, November.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
542	Nov.10	i_N	09 17 18	4	+3				Masked by micros.
543	12	iP_Z	10 13 45	1			+		Comp. Sprengnether
		eL_E	21.6	22					
544	12	iP_Z	11 21 22	1			-		Dil. Sprengnether
		i_Z	21 25	1			+		Comp. "
		i_Z	21 36	1			-		Dil. "
545	12	$(iP)_Z$	12 24 44	1½			+		Comp. Sprengnether
546	12	$i(P)_Z$	13 49 07	2			-		Dil. Sprengnether
		i_Z	49 32	2			-		" "
547	12	$i(S)_{NE}$	15 54 39	6	-1*	+1*			*from Mainka
		MN	58.5	14	2*				
548	13	$(iP)_Z$	22 50 27	1½			+		Comp. Sprengnether
549	13	iP_Z	23 12 24	1½			+		Comp. Sprengnether
550	14	iP_{NEZ}	03 14 15	2	-2	-2	+6	2540	Compression
		ipP_Z	14 53	3			-3	22?8	h 0.025
		i_{NEZ}	15 05	3	-3	-2	+5		H 03 09 28
		isP_{NEZ}	15 17	3	+4	+3	-3		
		i_{NEZ}	15 37	3	-2	-3	+5		
		i_E	15 44	5		-3			
		i_{NZ}	15 45	4	-3		+4		
		i_E	16 14	5		+5			
		i_E	17 41	4		+4			
		iS_N	18 06	6	+3				
		isS_N	19 11	6	+5				
		i_E	19 32	6		-5			
		i_N	19 35	5	+8				
		i_E	19 44	5		+8			
		i_N	19 49	7	+9				
		i_N	20 10	5	-5				
		i_N	20 19	6	-6				
		i_N	20 40	4	+5				
		$iScS_E$	25 04	4		+3			
551	14	e_Z	04 40 09	½					Sprengnether. Small local shock.
552	14	e_Z	04 42 20	½					do. do. do. do
553	14	eS_N	13 18 54						
		eL_E	21.6	18					
		M_E	25.0	13		2			
554	14	iP_Z	13 32 04	3			-4	5780	Dil. h 0.02?
		$iPPP_Z$	35 08	3			+5	52?0	H 13 23 09
		iS_N	39 13	4	-4				Obscured by microseisms & coda of 55.
555	15	P_Z	07 08 06					2640	Large microseisms
		i_N	08 11	4	-4			23?7	present.
		i_Z	08 13	4			+5		H 07 02 52
		eS_N	12 19	9					
		e_Z	12 26	7					
		iN_Z	12 30	4	-5		+5		
		eL_E	12.8	19					
		i_E	13 13	14		-5			
		eL_Z	13.6	16					
		$MNEZ$	15.3	10	4	5	2		
556	15	$e(S)_E$	10 32 01						Masked by microseisms.
		e_N	32 24						
		$e(SS)_N$	38 56						
557	16	$(iP)_Z$	09 18 59	1			-		Dil. Sprengnether
		i_Z	19 22	1½			+		Comp. "
559	17	$(PP)_Z$	07 12 36	6					
		$i(SKS)_{NE}$	18 28	5	-3	+3			
		$i(PS)_N$	21 51	6	+4				
		$e(SS)_E$	27 46	16					
		eL_N	43.9	22					
		MEZ	48.4	18		1	2		
		MN	51.6	18	1				

1955, November.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
561	Nov.19	(eΓ)Z	05 45 58						Masked by micro-
		iZ	46 00	3			+3		seisms.
		iS_N	51 20	4	+5				
		eL_N	54.3	21					
		eL_E	55.6	22					
		MN	57.3	13	2				
		MZ	57.4	20			5		
		ME	58.8	16		3			
562	19	iP_{EZ}	08 30 32	3		+2	-6	2460	Dilatation
		iPPZ	31 01	4			-4	22°1	h 0.01
		iS_N	34 24	4	-4				H 08 25 44
		iS_E	34 25	4		-3			
		$iPcP_N$	34 29	4	+12				
		isS_N	34 57	4	-5				
		iZ	35 18	4			+5		
		iE	36 15	4		+6			
563	20	iP_Z	02 13 47	1½			+	2290	Comp. Sprengnether
		eSE	17 33	?				20°6	H 02 09 04
		eLQ_E	17.7	16					
		iSS_E	18 05	7		+5			
		ME	18.6	13		3			
		MN	19.3	10	2				
		iE	19 41	4		+5			
567	21	iP_{EZ}	21 09 01	2		-2	+4	2340?	Compression
		i(pΓ)Z	09 18	2			+2	21°0?	h 0.01?
		iZ	10 20	5			+12		
		iNE	10 21	5	+4	-9			
		iE	10 37	5		-4			
		iN	11 03	3	+2				
		iZ	11 23	3			+3		
		iS_E	12 44	6		+5			
		iZ	12 47	4			+4		
		iN	12 50	4	+2				
		iN	14 27	7	-4				
568	22	iP_{EZ}	03 35 41	4			-3	8320	Dilatation
		eZ	35 48	11				74°9	H 03 23 57
		$iPcP_Z$	35 56	4			+3		
		iS_E	45 18	6		+3			
		iN	45 24	5	+2				
		$iSKS_N$	45 44	4	-1				
		$iScS_E$	45 51	4		+2			
		ePS_E	45 56	18					
		eSS_E	50 29	14					
		eLQ_N	55.0	22					
		eLR_Z	59.1	27					
		MEZ	04 02.3	21		3	5		
		MN	03.2	18	2				
570	23	iP_Z	06 42 01	4			+5	9360	Compression
		$iPcP_Z$	42 06	4			-15	84°2	H 06 29 26
		$iPcP_N$	42 07	4	+6				Perhaps slightly
		iZ	42 16	4			+6		deeper than
		$iSKS_N$	52 23	9	-19				normal.
		iS_E	52 26	4		-7			
		$iScS_E$	52 32	4		+11			
		iN	52 44	5	-7				
		iN	52 52	5	+12				
		iE	52 54	8		-8			
		iE	53 13	9		+15			
		iN	53 17	5	+7				
		iSS_N	58 06	7	+5				
		eL_N	07 06.1	28					
		eLR_E	08.1	30					
		eLR_{NZ}	09.0	33					
		MZ	10.9	27			23		
		MNE	11.0	27	13	11			
		MNZ	20.2	21	6		11		
		ME	24.4	20		5			
		eW_2Z	08 57.5	26					

1955, November-December.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.) h m s	Per s	Amplitude AN μ	AE μ	AZ μ	Δ km.	Remarks
	1955								
572	Nov.24	$(iP)_Z$	11 23 11	1½			+		Comp. Sprengnether
		eN	40 14						
575	26	$(iP)_Z$	13 30 35	1½			+		Comp. Sprengnether
		eE	35 32						Masked by micros.
576	27	iPZ	07 11 04	2			-2		Dilatation.
		iN	18 13	6	+6				Masked by large
		eL_N	18.5	18					microseisms.
		MN	20.8	13	12				
577	27	$(iP)_Z$	17 25 51	4			-3		Dil. Masked by
		iZ	27 13	4			-4		large microseisms.
579	27	iPZ	21 35 12	1½			+		Comp. Sprengnether
		iZ	37 07	3			+3		
		$i(S)_N$	40 04	4	+3				
582	29	$(iP)_Z$	09 37 13	1½			-		Dil. Sprengnether
		eL_E	44.8	?					
583	30	iPZ	00 15 14	3			+2	2730	Compression
		eS_E	19 33	7				24:6	H 00 09 51
		iE	19 55	6		-3			
		iSS_N	20 29	6	+5				
		eL_N	21.2	19					
		eL_Z	21.6	20					
		MEZ	24.1	16		1	3		
		MN	24.9	11	4				
585	30	$e(P)_Z$	06 31 16						
		$e(S)_E$	35 35						
		iSS_N	36 32	5	+3				
		eL_N	37.3	19					
		MN	40.9	11	2				

Minor activity: 1d 09.0h, 10.4h; 2d 05.1h,; 7d 06.8h; 17d 03.9h, 22.2h; 20d 21.5h; 21d 06.2h, 11.0h; 22d 17.3h; 24d 10.8h, 15.8h, 18.8h; 27d 20.1h; 28d 18.5h; 29d 04.3h; 30d 03.2h.

586	Dec.4	$e(S)_N$	02 11 01						Masked by large
		eN	11 57						microseisms.
		ME	15.5	14		2			
587	6	$(PKP)_Z$	04 49 43						
		ePS_N	05 00 09	12					
		eE	00 15	?					
		eSS_E	06 12	16					
		eNE	06 41	21					
		$eSSS_N$	10 39	15					
		eE	10 51	15					
		eLR_{NEZ}	23.8	30					
		$MNEZ$	26.5	2 0	1	2	3		
588	7	ePZ	15 13 28					6720	
		iP_{NZ}	13 30	4	+2		-4	60:5	Dilatation
		iZ	13 57	4			+4		H 15 03 14
		$iPcP_N$	14 12	4	-1				
		iZ	14 16	4			-2		
		iN	14 18	4	-2				
		iZ	15 58	4			+4		
		iN	16 17	4	+2				
		$iPPP_N$	17 09	6	+3				
		$iPPPZ$	17 10	7					
		$iSNE$	21 43	6	-8	-7			
		iZ	21 45	6			+5		
		iZ	21 52	6			-6		
		iN	21 55	6	-5				
		iE	21 56	6		-12			
		iN	22 11	5	+4				
		iE	22 42	7		-4			
		$i(ScS)_E$	23 21	5		-3			
		iN	26 20	5	+3				
		eL_E	29.4	37					
		ME	35.5	16		7			
		MN	36.8	24	11				
		MZ	37.0	21			10		
		eW_2Z	17 44	21					

1955, December.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A_N	A_E	A_Z		
	1955		h m s	s	μ	μ	μ	km.	
589	Dec. 8	ePZ	03 32 53					3060	
		eSN	37 33	6				27°5	
		eLNE	39.0	18					
		MNZ	41.6	12	1		1		
		ME	42.4	11		1			
590	8	iPNZ	17 41 32	3	+2		-4	3370	Dilatation
		iZ	42 49	?				30°3	h 0.07
		iN	42 50	3	+1				H 17 35 59
		ipPN	42 54	3	+3				
		iPPZ	42 58	3			+5		
		iSNE	45 58	4	+3	-2			
		iSSNZ	48 37	6	-6		-8		
		iE	48 39	6		+7			
		iN	48 42	6	-19				
		iE	48 56	6		+5			
		iN	48 57	7	+10				
		iZ	49 01	4			+5		
		iE	49 09	6		+6			
		iZ	49 50	4			-7		
		iE	49 53	4		+4			
		iScSN	51 09	4	-3				
		iN	51 21	4	+4				
		iN	51 50	4	+3				
		iE	54 37	7		+11			
		iN	56 10	7	+8				
591	9	(iP)Z	09 03 54	1			-		Dil. Sprengnether
		iZ	04 19	4			+4		Masked by micro-
		eN	09 14	8					seisms.
		MZ	14.0	18			3		
		ME	14.3	15		1			
594	12	i(P)Z	09 07 16	1			+		Comp. Sprengnether
		i(S)E	13 47	4		-2			
		eN	13 54	?					
595	12	(iP)Z	09 33 18	1½			+		Comp. Sprengnether
		iZ	33 49	3			+2		
		e(S)N	38 08	?					
		e(L)N	40.7	14					
		eLZ	43.3	24					
		MNZ	45.3	18	2		2		
		ME	45.7	13		3			
596	13	(iP)Z	08 31 20	1			+		Comp. Sprengnether
597	13	(iP)Z	13 45 17	2			-2		Dilatation
598	14	(iP)Z	11 03 51	1½			-		Dil. Sprengnether
		iZ	04 06	1½			-		" "
		iZ	04 12	1½			+		Comp. "
		iZ	04 14	4			+4		Masked by micro-
		e(PP)Z	06 57	8					seisms.
		eSN	13 50	9					
		iSKSN	14 04	5	+3				
		eLN	30.1	32					
		ME	37.8	25		2			
		MZ	37.9	24			2		
		MN	38.8	22	1				
599	14	i(P)Z	15 54 37	1			+		Comp. Sprengnether
600	15	(iP)Z	01 31 15	2			+		Comp. Sprengnether
601	15	iPZ	19 08 59	1½			-	3360	Dil. Sprengnether
		eSN	13 58	12				30°2	H 19 02 45
		eLE	16.8	28					
		iN	17 38	4	+5				
		ME	20.2	18		9			
		MN	20.9	18	6				
		MZ	21.4	16			9		

1955, December.
RIVERVIEW COLLEGE OBSERVATORY.
SEISMOLOGICAL BULLETIN.

No.	Date	Phase	Time (G.M.T.)	Per.	Amplitude AN	Amplitude AE	Amplitude AZ	Δ	Remarks
	1955		h m s	s	μ	μ	μ	km.	
602	Dec.19	iP_Z	03 22 32	2			+1	5340	Compression
		i_Z	22 35	3			+5	48°0	h 0.00
		i_N	22 36	3	-1				H 03 13 54
		ipP_Z	22 43	1			+		Comp. Sprengnether
		iPP_{NZ}	24 27	3	-1		+6		
		i_N	25 15	3	-1				
		iS_N	29 27	5	-4				
		iS_E	29 29	5		-2			
		isS_N	29 46	5	+4				
		i_E	32 33	6		-4			
		i_E	32 50	6		-2			
		iSS_N	32 58	7	-5				
		i_E	33 02	6		-7			
		i_E	33 16	6		-2			
		i_N	33 57	6	+6				
		ME	45.2	19		4			
		MZ	45.6	18			4		
		MN	46.5	16	3				
603	20	iP_Z	13 55 55	1			+		Comp. Sprengnether
607	27	iP_Z	02 33 37	3			+2		Compression
		i_{EZ}	33 40	3		-1	+2		
		i_{EZ}	34 34	6		-2	+3		
		$i(PP)_{EZ}$	34 40	6		-3	+7		
		i_Z	35 22	5			-4		
		$i(S)_N$	38 14	6	+4				
		i_E	38 21	6		-2			
		i_E	39 21	6		-2			
		i_E	39 31	6		+5			
		i_N	39 34	6	+4				
		i_N	40 04	6	-3				
		i_N	40 33	10	+12				
		$iScS_N$	44 07	3	-3				
		$iScS_E$	44 10	4		-5			
608	27	eP_Z	08 55 42					5260	h 0.01
		iPP_Z	57 36	4			+2	47°3	H 08 47 16
		iS_E	09 02 27	6		-2			
		$iScS_N$	05 23	4	+3				
		$i(SS)_E$	05 39	6		+5			
		eL_E	08.8	23					
		MEZ	13.9	17		3	3		
		i_E	15 51	8		+10			
609	27	$e(S)_E$	17 29 24						Obscured by microseisms.
610	29	$(iP)_Z$	08 38 16	3			+3		Compression. Microseisms present.
611	30	iP_Z	07 05 46				-		Dil. Sprengnether
612	30	$(iP)_Z$	09 31 28	3			+3		Compression. Obscured by microseism
		i_E	41 59	3		+3			
613	31	$(S)_N$	18 39 42						Masked by large microseisms.
		eL_N	43.8	15					
		$i(ScS)_N$	45 06	3	+5				
		MZ	49.2	13			3		

Minor activity: 11d 12.7h, 15.6h; 24d 16.0h, 19.0h; 26d 19.7h.

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Director.

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