Riverview College Observatory,

SYDNEY, N.S.W.

Seismological Bulletin.

$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	(1)	204	7.7s.	7.7	0.037
	(3)	84	7.0	1.7	0.04
A_E	(1)	197	7.8	4.3	0.03
	(3)	74	6.5	2.9	0.03
A_Z	(2)	74	3.5	2.3	0.08

No.	Date.	Char.	Phase	Time. (Greenwich).	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
1	Jan. 5	I_r	e	14 14 05	4				1200 (?)	
			eS ?	16.6	7					
			eL	19.4	12					
			ME	20 58	10		2½			
			MN	21 07	10	2¼				
			F	14 40						
2	" 9	I	e	3 14.2						
			eL	28.6	16					
			ME	31 41	15		3¼			
			MN	32 04	15	3½				
			F	6 28						
3	" 11	III_u	eP	13 25.1	3				4800	
				25 11	12	15	11			
			PR_1	27 12						
				27 38	16	58	55			
			iS	31 39	8	−10	+ 4½			
			PS	32 08	12	43	31			
			iSR_1	34 53	14	+72	-			
				35 17	16	100	98			
			eL	37.1	30					
			MN_1	43 03	18	252				
			ME_1	43 32	18		262			
			MZ	44 44				?		
			ME_2	44 52	16		268			
			MN_2	46 28	15	282				
			F	17 45						
4	" 15	I	e	19 54.8						
			ME_1	20 01 49	13		3½			
			MN	2 38	13	1¼				
			ME_2	9 41	12		2			
			F	20 29						
5	" 15	I	e	22 05.9						
			ME	10 47	15		4¾			
			MN	13 31	11	2¾				
			F	22 30						
6	" 16	I	e	13 17.1						
			e	22.0						
			MN_1	25 08	10	2½				
			ME	26 08	15		3¼			
			MN_2	30 32	10	2¼				
			F	14 0						

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_Z				

No.	Date.	Char.	Phase	Time. (Greenwich).	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
7	Jan. 19	II_u	eP ?	17 17.1					7200	? Shock felt on board N.D.L. steamer "Scharnhorst", latitude 1-18 S., and longit. 86-58 E.
			eS	25.7	5					
			iPS	26 08	5	5	9½			
			eL	33.6	26?					
				35.2	40					
			MN	39.6	24	133	315			
			ME							
			MZ	44 57	18			35		
			F	20 17						
8	" 20	I	eS	15 03.1						
			eL	5.0	16					
			ME	5 23	14		5½			
			MN	7 58	9	2				
			F	15 53						
9	" 23	I_u	e(P?)	13 59.3					5800	?
			S	14 06 42	?					
			eL	10.6	16					
			MN_1	11 21	16	19				
			ME_1	12 42	13		14			
			ME_2	15 25	13		11			
			MN_2	16 46	13	16				
			MZ	16 55	13			18		
			F	15 14						
10	" 24	I	e	5 59.0						
			MN	6 01 57	12	6½				
			ME	2 34	12		2			
			F	6 29						
11	" 26	I	i	19 10 38	3	+ 3¾	-			Probably two distinct shocks at interval of 5 minutes.
			e	13.1						
				13.5	9	2				
			i	15 52	8	- 4½	+ 6½			
			F	19 30						

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	(1)	206	7.7s.	6.6	0.04
	(3)	82.3	7.0	1.6	0.04
A_E	(1)	198	7.7	9.3	0.03
	(3)	73	6.4	2.9	0.05
A_Z	(2)	70	3.5	2.5	0.07

No.	Date.	Char.	Phase	Time. (Greenwich).	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
12	Feb. 3	I	e	17 15.4	5					
			eL	19.5	12					
			MN	21 50	11	1¾				
			ME	22 57	9		1½			
			F	17 42						
13	" 6	I	e	12 22.5						
			eL	24.6	16					
			MN	25 47	12	3¼				
			ME	29 46	?					
			F	12 40						
14	" 7	I_u	iP	3 11 6	3	−4	-		5240	
			iS	18 1	4	2¼	−3			
			eL	22.9	20					
			ME	24 41	20		59			
			MN_1	25 04	18	15				
			MN_2	34 32	14	14				
			MZ	34 43	14			22		
			F	5 10						
15	" 8	I	e(L?)	18 25.4	12					
			MN	26 24	12	2				
			ME	30 20	12		1¼			
			F	18 33						
16	" 11	I	e(L?)	23 59.3	?					
	12		MN	0 01 33	14	3				
			ME	2 11	14		3			
			F	0 18						
17	" 12	I	e	17 22.0						
			eL	29.2	16					
			MN	30 16	12	3¼				
			ME	30 36	12		2½			
			F	17 50						
18	" 14	I_r	iP	18 57 32	4	−3½	-		2400	
			S	19 01 32	7	½	2			
			i	2 33	7	+5½	+6¼			
			eL	4.0	20					
			MN_1 MZ	5 46	16	7½		29		
			ME_1	6 28	14		6¼			
			MN_2	9 34	10	3				
			ME_2	10 29	9		3			
			F	19 58						
19	" 15	I_r	iP	19 08 05	3	+1½	+1½		2450	(cf.No. 22)
				8 44	4	2½	2½			
			iS	12 07	7	−7	−5¼			
			PS	12 19	7	11	5¼			
				13 39	7	6	10			
			ME	15 38	12		5			
			MN	16 15	12	5¼				
			F	20 24						

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N				
A_E		(see last sheet)		
A_Z				

No.	Date.	Char.	Phase	Time. (Greenwich).	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
20	Feb.20	I_u	eP ?	9 11.0					8000	?
			i(S?)	20 22	5	$-1\frac{3}{4}$	− 2			
			eL	37.1	25					
			MN	41 31	18	10				
			ME	41 37	18		8			
			F	10 45						
21	" 22	I_r	iP	1 12 37	4	$+1\frac{1}{4}$	$-3\frac{1}{4}$		2100	Felt in South Island (N.Z.) especially at Westport, Greymouth, &c.
			iS	16 17	4	-	+ 2			
			eL	17.0	14					
			ME	17 31	12		$3\frac{1}{2}$			
			MN	19 03	10	$1\frac{1}{2}$				
			F	3 50						
22	" 25	I_r	iP	14 23 23	3	$+1\frac{3}{4}$	$+1\frac{1}{2}$		2500	(cf.No.19)
			iPR_1	24 11	4	−10	$-8\frac{1}{2}$	$+1\frac{1}{2}$		
			iS	27 29	7	$-3\frac{3}{4}$	$-4\frac{1}{4}$			
				28 35	7	12	8			
			eL	29.0	12					
			MN	30 33	8	$2\frac{1}{2}$				
			ME	30 42	8		3			
			F	16 10						
23	" 27	I	e	21 27.4	?					
			e	29.3	5					
			i	30 05	6	5	8			
				30 32	7	-	5			
				32 29	10	-	6			
			F	22 0						

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	1	194	7.8s.	6.9	0.03
	3	83	7.0	1.7	0.04
A_E	1	186	7.8	7.7	0.03
	3	74	6.4	3.0	0.05
A_Z	2	72	3.5	2.2	0.04

No.	Date.	Char.	Phase	Time. (Greenwich).	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
24	Mar. 1	I_V	e	15 09.2					?	Short wave-lengths: origin probably less than 500 km. distant.
			MN	13.0	5	2				
			ME	13 13	5		1½			
			F	15 32						
25	" 4	I_r	e	7 10.3						
			eL	22.4	15					
			MN	26 28	12	2				
			ME	28 05	14		3			
			F	7 53						
26	" 6	I	e	9 03.6						
			ME	8 40	12		2			
			MN	10 27	12	2				
			F	9 38						
27	" 10	I	e	14 03.4						
			MN_1	8 21	10	2¼				
			ME	10 20	13		7			
			MN_2	14 52	10	1½				
			F	14 54						
28	"14	III_u	iP	8 53 21	3	+7½	-5½	5¾	5100	Destructive earthquake in Sangir islands, S. of Mindanao, (Philippines)
			i	53 41	4	+23	-32			
			PR_1	55 42	6	48	35			
			PR_2	56 58	6	50	46			
			iS	9 0 10	8	-235	-121	82		
			SR_1	3 41	10	511	481	?		
			eL	4.8	30					
			MN_1	7 07	9	290				
			ME_1	10 10	16		1040			
			MN_2	10 40	11	332				
			MZ	12 34	12			462		
			ME_2	14 35	11		373			
			MN_3	15 32	11	465				
			6	28 36	10	34	45			
			F	14 10						
29	" 23	I_u	.	. . .					5000	
			eP	20 57.4	3					
			S	21 04 09	8	4½	-			
			iPS	5 34	8		-6			
			eL	11.3	24					
			ME	16 57	14		11			
			MN	17 36	14	6				
			F	22 30						

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(se last sheet)		
A_E				
A_Z				

No.	Date.	Char.	Phase	Time. (Greenwich).	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
30	Mar. 24	I_r	e	19 27.0						
			e(S?)	29.2	?					
			eL	31.9	18					
			ME	33 47	12		4½			
			MN	34.0	12	4½				
			F	20 07						
31	" 26	I	e(S?)	21 53.1	7?					
			eL	59.7	22					
			MN	22 04 44	16	8				
			ME	5 16	16		10			
			F	22 40						
32	" 30	I	e	8 41.6	?					
			eL	47.1	14					
			MN	51 58	12	4½				
			ME	52 15	12		4½			
			F	10 05						
33	" 31	I_u	eP	3 54.0	3				9500	
			eS	4 04.6	?					
			PS	5 16	7	4	-			
			eL	21.5	35?					
			MN_1	23 26	22	19				
			ME_1	33 35	18		8			
			MN_2	34 20	18	10				
			ME_2	42 26	15		9			
			F	7 10						
34	" "	I_r	eP	16 56.6					4000	
			eS	17 02.4	8?					
			eL	5.3	12					
			MN	7 05	10	22				
			ME	7 22	10		4			
			F	18 20						
35	" "	I_r	eP	21 48.5	4				4000	Probably 2nd shock of No.34
			S?	54.3	6					
			eL	58.1	14					
			ME	59 30	12		6			
			MN	59 44	12	10				
			F	23 06						

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	194	7.8	6.9	0.03
(3)	83	7.0	1.7	0.04
A_E (1)	186	7.8	7.7	0.03
(3)	74	6.4	3.0	0.05
A_Z (2)	72	3.5	2.2	0.04

No.	Date.	Char.	Phase	Time. (Greenwich).	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
	March 14	III$_R$	iP	8 53 21	3	+ 7½	- 5½	5¾	5120	
			i	53 41	4	+23	- 32			
			PR_1	55 42	6	48	35			
			PR_2	56 58	6	50	46			
			iS	9 00 10	8	235	-121	82		
			SR_1	3 41	10	511	481	?		
			eL	4.8	30					
			MN_1	7 07	9	290				
			ME_1	10 10	16		1040			
			MN_2	10 40	11	332				
			MZ	12 34	12			462		
			ME_2	14 35	11		373			
			MN_3	15 32	11	465				
			C	28 36	10	34	45			
			F	14 10						

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	204	7.6	7.1	0.02
(3)	87	7.0	1.7	0.05
A_E (1)	195	7.6	4.6	0.02
(3)	67	6.2	2.5	0.05
A_Z (2)	73	3.5	2.5	0.08

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
79	June 4	II_r	iP	10 03 51	5	+2½	-		3500	
			eS	9:0	?					
			eL	11.0	30					
			ME_1	15 33	19		232			
			ME_2	19 14	12		130			
			M(N,Z)	20.1	11	115		51		
			F	12 20						
80	" 13		ME	3 42.5	18		5¼			From 3h 33m to 3h 50m; a few long waves.
			MN	43:4	16	6				
81	" 14	I	eL	10 47.1	18					
			MN	52 17	16	2				
			ME	54 17	16		4			
			F	11 26						
82	" 17	I_r	eP	9 07.8					3500	
			S	13 03	8	1	1			
			eL	17.1	12					
			MN	17 54	10	1½				
			ME	18 44	9		1			
			F	10 30						
83	" 22	I_r	e(P?)	14 13.6	8				4500?	
				14 04	8	5	6			
			e(S?)	19.8	14?					
			e(L?)	26.5	20					
			MZ	34 43	18		18			
			MN	35 39	20	22				
			ME	37 29	18		10			
			F	15 52						
84	" "	I	e	16 08.8						
			ME	16 52	16		1			
			MN	18 20	16	2				
			F	16 30						
85	" 25	I	e	18 39.0						
			MN	40 37	?					
			ME	42 15	10		¾			
			F	18 50						
86	" 26	III_r	iP	5 03 58	5	-	-6¼	+4	3550	Felt on islands of Tongatabu, Haapai and Vavau (Tonga or Friendly group
			i	4 07	5	+4½	+15	-12		
			PR_1	5 31	6	8	29	19		
			iS	9 18	9	+45	+23			
			PS	9 45	9	94	116			
			eL	11.7 ?	?					
				12 04	16	460	150			IV Sieberg ?
			MN_1	13 22	15	504				
			ME_1)	15 08	20		2130	1440		Azimuth computed, N 73 E.
			MZ							
			MN_2	17 03	11	287				
			ME_2	24 13	14		290			
			C	34.1	12	95	86	31		
			F	9 20						

(See Special Bulletin, June 30, 1913)

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A_N (1)	204	7.6	7.1	0.02
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A_E (1)	195	7.6	4.6	0.02
(3)	67	6.2	2.5	0.05
A_Z (2)	73	3.5	2.5	0.08

No.	Date.	Char.	Phase	Time. (Greenwich).	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
	June 26	III_r	iP	5 03 58	5	-	$-6\frac{1}{4}$	$+4$		Probably near island of Tongatabu,- Tonga group
			i	4 07	5	$+4\frac{1}{2}$	+15	-12	3550	
			PR_1	5 31	6	8	29	19		
			iS	9 18	9	+45	+23			
			PS	9 45	9	94	116			
			eL	11.7 ?	?					Azimuth calculated, N 73 E.
				12 04	16	460	150			
			MN_1	13 22	15	504				
			ME_1) MZ	15 08	20		2130	1440		
			MN_2	17 03	11	287				
			ME_2	24 13	14		290			
			C	34.1	12	95	86	31		
			F	9 20						

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A_N (1)	206	7.6	4.7	0.02
A_N (3)	163	7.0	1.7	0.04
A_E (1)	193	7.6	4.4	0.02
A_E (3)	123	6.2	2.5	0.07
A_Z (2)	74	3.5	2.4	0.05

No.	Date.	Char.	Phase.	Time. (Greenwich.)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
87	July 1	I	eP ?	3 59.2						
			e(S?)	4 04.9						
			PS	5 11	7	4	3¾			
			eL	9.8	16					
			ME	13 00	10		6¼			
			MN	13 13	10	4¾				
			F	4 45						
88	" 6	II_r	eP	16 20.2					4300	
			PR_1 ?	22 21						
			eS	26.2						
			PS	26 29	8	4	5			
			SR_1	29 21	8	2¾	4½			
			eL	32.0	18					
			ME	37 24	16		42			
			MZ	38 40	15			24		
			MN	39 41	14	21				
			F	17 50						
89	" 7	I_r	eP	9 28.0					3000	
			S	32 40	6	¾	1½			
			eL	35.7	15					
			MN	39 40	12	3				
			ME	41 00	10		6			
			F	10 35						
90	" "	II_r	iP	17 42 38	4	-7	-		3500	
			iS	47 49	8	9	+13			
			PS	48 22	8	19	10			
			SR_1	50 18	10	21	28			
			eL	50 30	24					
			ME	54 10	10		53			
			MN	54 39	11	59				
			MZ	56 25	12			30		
			C	18 04.4	8	21	18			
			F	19 20						
91	" 8	II_r	eP	22 14.0					3300	
			iS	18 47	6	-3¾	+15			
			iPS	19 06	6	3¾	-12			
			eL	20.8	20?					
			M	22.7	16	47	100			
			F	23 50						
92	" 12	I_r	iP	10 42 23	5	-1¼	+7¼		4900	
			S	49.0	9	-	1			
			eL	52.0	20					
			MN	11 00 35	16	11				
			ME	6 30	14		7½			
			F	11 40						

Riverview College Observatory,

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$\phi = 33° 49' 49''$ S. $\lambda = 151° 9' 30''$ E. h = 41·9 m. Foundation : Triassic sandstone.

INSTRUMENTS :
1. Wiechert Astatic Pendulum Seismometer (1000 kilo.)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N				
A_E		(See last sheet)		
A_Z				

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
93	July 21	I	e ?	18 17.9						
			MN	21 5	11	2½				
			ME	21 24	14		3			
			F	18 30						
94	" 22	II	e(S?)	6 40.4						
			eL	45 05	22					
			ME_1	48 38	22		64			
			MZ	50 37	20			31		
			MN	50 52	20	57				
			ME_2	51 25	15		59			
			F	8 05						
95	" 23	I	eP?	18 30.5	5	¼	1¼			
			S?	34.1	8	1	-			
			eL	36.7	12					
			MN	38 25	12	4				
			ME	41 34	14		3			
			F	19 05						
96	" 24	I_r	iP	10 50 10	4	+3¾	+5¾	-2	2400	
				50 11	4	-6¼	-8	+18		
			PR_1	51.5	5	2¼	4½			
			iS	54 06	6	-4	-3½			
			PS	54.2	6	8	8			
				54.8	6					
			ME	57.9	12					
			MN	59.7	11					
			F	11 40						
97	" 25	I	eL	8 05.5	14					
			ME	9 28	9		2½			
			MN	10 32	10	1½				
			F	8 40						
98	" 28	I	e(L?)	6 35.3	20?					
			MN	37 42	16	2				
			ME	45 56	14		1½			
			F	7 35						
99	" "	II_r	eP	12 04.3	6	¾	½		2400	
			eS	08.2	8	½	½			
			eL	09.6	15					
			ME_1	10 08	14		37			
			MN) MZ	12.4	12	19		15		
			ME_2	12 41	12		33			
			F	13 35						

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_Z				

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
100	July 29	II	e(S?	15 6.9						
			eL	11.3	14					
			ME_1	12 58	10		7			
			MN_1	13 07	9	$8\frac{1}{2}$				
			MZ	14 24	11			9		
			ME_2	16 30	14		15			
			MN_2	16 44	14	8				
			F	16 15						
101	" "	I	e?	18 49.0						
			e?	57.1						
			i(SR_1?)	19 0 31	12	-	-21			
			eL	0.8	15?					
			M	2.1	12	11	17			
			F	19 30						
102	" "	I	e(S?	22 24.3						
			eL	30.5	?					
			ME	31 55	12		1			
			MN	32 19	12	1				
			F	23 0						

N.B. In the preceding Bulletins of this year (Nos.1 to 6), the Magnification (V) of the Mainka seismometer (No.3) was inadvertently given at $\frac{1}{2}$ its real value. Please correct this error.

E.F.Pigot,S.J.

Riverview College Observatory,

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	199	7.7	5.2	0.025
A_N (3)	163	7.0	1.7	0.04
A_E (1)	189	7.6	5.0	0.02
A_E (3)	123	6.2	2.5	0.07
A_Z (2)	73	3.5	2.7	0.05

No.	Date.	Char.	Phase.	Time. (Greenwich.)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
103	Aug. 1	I_u	eP	17 23.4					8600	Probably East of Kurile Islands.
			eS	33.3						
			PS	34.3	12	4	-			
			e(SR_1?)	38.7	15	$1\frac{3}{4}$	-			
			eL	48.7	30					
			MN_1	53 26	20	12				
			ME_1)	57.4	16		$6\frac{1}{4}$			
			MN_2		18	$7\frac{1}{2}$				
			ME_2	18 09 21	18		$5\frac{1}{2}$			
			F	19 25						
104	" 4	II_r	eP	21 20.3	2				3600	Banda Sea
			eS	25.5						
			iS	25 37	5	$-4\frac{1}{4}$	$-4\frac{1}{4}$			
			PS	26 19	5	$4\frac{1}{4}$	-			
			SR_1	27 35	7	5	$3\frac{1}{2}$			Remarkably short wave-lengths
			eL	28.2	?					
			MN)	31.9	7	47	40			
			ME)							
			MZ	32 37	5			$5\frac{1}{2}$		
			F	22 30						
105	" 6	I_r	eP	12 10.6	5				2700	
				10 54	5	$\frac{1}{2}$	2			
			S	14 56	8	1	$2\frac{1}{2}$			
			eL	17.4	24					
			ME	19 21	18		13			
			MN	19 37	13	$7\frac{1}{2}$				
			F	13 05						
106	" 6	I	e	22 23.3						T. very short F lost in 107
107	" 6	II_u	eP	22 31.0	6	-	$\frac{3}{4}$		13000	
	7		iS	43 50	15	-32	+43			Destructive E.Q. Quicacha (Peru)
			SR_1	49 55	20	96	66			
				50 47	20	114	92			
			SR_2	54 23	21	17	54			
			eL^2	23 01.4	40					
			ME_1	03 42	34		73			
			MN_1	04 03	32	94				
			MN_1^2	08 20	23	63				
			ME_2^2	08 51	23		70			
			MZ^2	10 31	18			72		
			ME_3)	10.6	18	62	65			
			MN_3)							
			F	2 17						

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N				
A_E		(See last sheet)		
A_Z				

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
108	Aug. 6	II_r	P	23 22 56	?				3100	
			S	27 39	8	11	5			
			PS	26 07	8	23	12			
			eL	31.5	25					Superposed on No. 107
			F	?						
109	" 7	II	e ?	14 46.6						
			S	51 20	8	2	2			
			eL	53.1	12					
			ME_1							
			MN_1	55.3	9	62	47			
			MZ	58 38	10			20		
			F	16 05						
110	" 11	I	e	6 45.2	6	1¼	2			
			e	52.2	9	-	2			
			eL	56.1	12					
			MN_1	56 35	12	5				
			ME_1	57 00	12		4½			
			MZ	7 00 00	12			11		
			MN_2	0 13	12	4				
			ME_2	0 28	12		2¼			
			F	7 20 00						
111	" 13	II_u	iP	4 34 36	5	½	3½		5500	Sunda Straits
			iS	41 42	7	-14	+14			
			eL	47.8	35					
			MN_1	52 12	22	83				
			ME_1	55.0	22		96			
			MZ)		24			64		
			ME_2	56 32	18	50				
			F	6 30 00						
112	" 15	I	eP	19 21.6						
			e(L?)	30.8	25?					
			MN	40 28	14	3				
			ME	40 37	14		3			
			F	20 05 00						
113	" 18	I	e?	1 19.4						
			e(L?)	30.4	?					
			MN	33 15	10	2				
			ME	33 23	10		1½			
			F	1 50 00						

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_Z				

No.	Date.	Char.	Phase.	Time. (Greenwich.) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
114	Aug. 25	I	e(P?	5 19.7						
			S?	24.7	8	3	2½			
			eL	26.8	12					
			ME	29 24	10		6½			
			MN	30 41	10	5				
			F	6 05 00						
115	" 31	II_r	eP	6 09 46					2500	
			iP	9 55	4	4½				
			PR_1	10 55	5	5½				
			iS^1	13 51	8	-14	4			
			i	14 00	8	-	+25			
				14 07	8	21	50			
			eL	15.1	30?					
			ME_1	16 58	14		54			
			MN_1^1	17 26	14	159				
			MZ	19 36	11			12		
			MN_2)	19 45	11	70				
			ME_2)				17			
			F	8 15						
116	" 31	II	eP?	17 21.7						
			eL	27.3	28					
			ME	30 18	15		27			
			MN_1^1	30 34	15	30				
			ME_2	32 09	12		44			
			MN_2	32 47	12	33				
			MZ	33 19	12			15		
			F	18 40 00						

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		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	1	206	7.7	4.8	0.027
	3	140	10.5	4.8	0.018
A_E	1	195	7.7	4.6	0.02
	3	127	11.2	7.4	0.018
A_Z	2	80	5.1	4.7	0.03

No.	Date.	Char.	Phase.	Time. (Greenwich.) h m s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
117	Sept 1	I	eP	20 59.8	5	½	1½			
			ME	21 11 39	16		5			
			MN	12 06	16	2				
			F	21 50						
118	" 2	I_r	eP	19 08.2					2500	
			S	13 07						
			PS	13 25	10	3	½			
			eL	17.0						
			ME	18 35	17		24			
			MN	19 07	18	24				
			MZ	21 48	14			8		
			F	20 30 00						
119	" 3	II_r	eP	20 57.3					3100	
			iP	57 26	7	+6				
			iS	21 02 07	9	−33	4			
			PS	02 38	10	55	26			
			eL	04.1	28					
			MN_1	06 19	22	360				
			MZ_1	06 31	24			109		
			ME	07 22	15		195			
			MN_2	09 28	12	88				
			C	20 00	10	20	19			
			F	23 15						
120	" 7	I_r	eP	21 26.4	4	-	1		2400	
			S	30 26	6	-	2½			
			eL	33.4	14					
			ME	37.7	10	1	½			
			F	21 50						
121	" 8	I	e	2 09.5						
			eL	18.8	18					
			MN	20 21	14	3				
			ME	23 46	10		½			
			F	2 35 00						
122	" 13	II_r	eP	2 13.2	?				1400	
			S	15 44	7	1	1			
			eL	17.0	18					
			M	20.1	10	56	50			
			MZ	23 26	7			2		
			F	3 25 00						
123	" 26	I	e(S?)	21 50.0	?					
			eL	54.6	20					
			M	56 12	16	3	5			
			F	22 35 00						
124	" 29	I_r	e(P)	19 52.9						
			iS	54 52	4	2	3			
			eL	55.5	12					
			ME	56 23	10		4			
			MN	57 20	10	2½				
			F	20 15 00						

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2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	205	7.8	5.7	0.03
A_E (3)	136	10.6	4.1	0.02
A_E (1)	193	7.8	5.2	0.02
A_Z (3)	121	11.3	9.4	0.01
A_Z (2)	80	5.2	4.8	0.03

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
125	Oct. 2	I	eS	4 54.5	12	2	3			
			eL	5 23.3	25					
			ME_1	25.8	18		7			
			MN	30.2	16	4				
			ME_2	42.0	14		3			
			F	6 55						
126	" 9 10	I_r	iP	22 41 00	5	8	2½	1	2600	
			eS	45.2	8					
			iS	45 23	8	-11	-5			
			eL	47.8	16					
			MN_1	48 58	12	10				
			ME_1	49 25	12		9			
			MN_2	52 43	10	7				
			MZ	53 16	12			6		
			ME_2	55 06	10		11			
			F	0 10						
127	" 10	I	e	22 42.2						
			ME	48 49	10		3			
			MN	50 55	10	2				
			F	23 20	½					
128	" 11	II_r	eP	1 40.1	10/13				2800	P, very short waves (½s.) superposed on others of unusually large wave-length..
			eS	44.6	11					
			iS	44 46	11	18	9			
			iPS	45 02	11	-48	+14	-35		
			eL	47.4	25					
			ME_1	51 00	14		134			
			MZ_1	51 33	14			67		
			MN_1	52 25	14	126				
			MZ_2	53 51	14			92		
			ME_2	54 03	11		149			
			MN_2	55 43	10	66				
			C	2 1.2	10	18	23	12		
			F	3 35						
129	" 11	I_r	eP	3 53.2					3100	
			eS	58.0	10	2	-			
			eL	4 01.3	20					
			ME	4 00	15		17			
			MN	6 00	14	7				
			MZ	10 54	10			4		F. lost in N°130

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3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet		
A_E				
A_Z				

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
130	Oct. 11	II_r	iP	4 12 02	3	$-5\frac{3}{4}$	-1	+3	2870	Azim. N.9° E.
			iS	16 36	10	-7	+21			
			iPS_N	16 54	10	-91				Lat. 9° S.
			iPS_E	16 59	10		+36			
			eL	19.3	25					Long. 155° E.
			ME	22 15	15		195			
			MN_1	24 56	16	140				
			MZ_1	25 00	16			90		
			MN_2	30 55	10	94				
			MZ_2	31 00	12			61		
			C	37 13	9	21	11			
			F	6 10						
131	" 11	I	eL	7 15.0	24					
			ME	20 09	18		5			
			MN	25 09	12	6				
			F	7 50						
132	" 11	I	eL	8 07.8	?					
			ME	15 43	12		3			
			MN	17 15	12	3				
			F	8 32						
133	" 11	I	eL	9 31.0	20					
			ME	50 07	15		5			
			MN	54 00	16	4				
			F	10 45						
134	" 13	I	eP	3 59.9						
			e(S?)	4 02.2	8	1	2			
				3 27	10	-	3			
			eL	5.0	18					
			ME	5 23	13		4			
			MN	7 09	13	2				
			F	4 22						
135	" 13	I	e?	8 42.1						
			eL	44.2	27					
			ME_1	46 14	18		10			
			MN_1	47 10	18	5				
			MN_2	51 10	11	4				
			ME_2	52 43	11		4			
			F	9 15						
136	" 14	III_r	iP	8 13 28	5	+34	+51	-53	2330	Azimuth (computed from iP):
			PR_1	14 33	5	63	43			
			iS_1	17 19	8	-176	-80			N. 56° 10′ E.
			iPS	17 28	8	-440	256			
				17 45	8	460	290			Lat. 21° S.
			eL	19.0	30?					
			M_1	20 00	18	468	465	720		Long. 170° E.
			M_2	21 32	15	402	360			
			C	30 10	12	50	90			
			e	37.1						
			F	13 45						

(Continued on next sheet)

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2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_Z				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
137	Oct. 14	I_r	eP?	21 19.5					2400?	
			S	23 32	9	-	2			
			eL	26.7	30					
			ME	28 30	18		15			
			MN	29 45	13	12				
			F	22 00						
138	" 16	I	e?	2 09.2						Strong micro-seismic-movement.
			eL	18.4	18					
			ME	19 57	18		7			
			MN	22 12	13	5				
			F	2 50						
138a	" 19	I	e?	17 57.8						
			eL	18 11.3	21					
			ME	12 22	16		2			
			MN	14 40	13	1¼				
			F	18 45						
139	" 22	I_r	iP	6 50 54	4½	-	+5		2260	
			iS	54 39	8	-9	+4			
			PS	54 57	8	7	½			
			eL	58.1	17					
			ME	59 18	14		7			
			MN	59 55	12	6				
			F	7 30						
140	" 22	I	e	8 01.1						
			ME	1 49	15		2			
			MN	3 07	11	2				
			F	8 08						
141	" 28	I	e(P?)	15 45.2						
			eL	47.1	17					
			ME	50 42	13		4			
			MN	51 06	12	4				
			F	16 10						
142	" 29	I_r	iP	4 50 34	5	-	-3		3700	
			iS	56 05	?					
			eL	5 05.2	28					
			M	11.1	17	11	11			
			F	5 40						
1443	" 30	I	e	12 34.1						
			MN	41 14	13	2				
			ME	45 15	13		1			
			F	13 00						

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INSTRUMENTS :

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2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

		V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	1	208	7.8	5.5	0.03
A_E	3	132	10.5	4.8	0.02
	1	186	7.8	5.8	0.02
A_Z	3	121	11.3	13.1	0.02
	2	80	5.1	5.0	0.03

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. (½ s.)	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
144	Nov. 6	I_r	eP	10 31 08	6	½	1¼	1½	2600	
			PR_1	32 36	4	½	2	2		
			iS	35 21	8	-8	+9			
			iPS	36 00	8	-10	-5			See No.145.
			eL	39 25	14					
			MN	40 12	14	6				
			ME	45 33	17		5			
145	" 6	I_r	iP	10 38 34	5	+5	-4	-	4200	Superposed
			iPR_1	40 27	6	-10	+14			on No.144.
			eS	44 35	9	½	2			
				44 53	9	6	6			
			F	11 10						
146	" 9	I	e	19 12.4						
			ME	17 23	15		4			
			MN	20 23	15	2				
			F	19 45						
147	" 10	II_r	iP	21 17 28	4	+8	+10	-8	2550	Azim. N.50°.2 E.
	11			17 54	5	20	32	17		
			iS	21 37	9	-64	-77	+66		Lat. 18° S.
				21 41	9	142	119			
			PS	22 00	9	91	144			Long. 170° E.
			eL	23 30	29					
			ME_1	24 34	17		264			
			MZ	26 21	15			136		
			MN_1	26 32	14	171				
			ME_2	26 56	13		91			
			MN_2	28 45	12	72				
			C	35 16	10	17	14	8		
			F	0 10						
148	" 11	I	eP	12 38.6	4				2400	
			eS	42.6	8	1	½			
			PS	42 54	8	3	3			
			eL	44.4	18					
			ME	46 28	13		1			
			MN	46 54	13	5				
			F	13 15						
148_a	" 13	I	e	19 40.1	?					
			MN	55 11	20	3				
			ME	20 01.0	20		3¼			
			F	20 25						
149	" 14	I	eL	21 24.4	17					
			MN	27 22	11	1				
			ME	31 06	15		2			
			F	22 00						

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2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N				
A_E				
A_Z		(See last sheet)		

No.	Date.	Char.	Phase.	Time (Greenwich) h. m. s.	Per. s.	Amplitude. A_N μ	A_E μ	A_Z μ	Δ km.	Remarks.
150	Nov. 15	II_r	eP	5 31.4	2 8				2320	Azim. N. 57½° E.
			iP	31 42	8½	-12	-20	+30		
			iPR_1	32 53	8	-19	-14	-		Lat. 21.°1 S.
			iS	35 14	9	-29	-31	-		
				35 21	9	51	106	-		Long. 170° E.
			PS	35 31	9	47	81	26		
			eL	37.6	22					
			MN	37 15	15	48				
			ME MZ	38.5	16		42	12		
			F	7 05						
151	" 17	I_r	iP	21 04.1	5½	1	1	1	2360	
				4 15	6	8	7	3		
			PR_1	5 23	6	-	5	-		
			iS	8 00	9	-3	-6	3		
				8 14	9	8	13	10		
			eL	9.6	22					
			ME_1	11 26	15		32			
			MN_1	11 37	12	17				
			MN_2	13 38	11	18				
			MZ	13 56	12			6		
			ME_2	14 00	12		18			
152	" 17	I	eP?	21 32.2	?					F lost in No.152.
			eS?	36.1	?					
			eL	37.3	20					
			MN	39 34	13	6				
			ME	43 20	13		4			
			F	22 50						
153	" 18	I	eP?	5 46.3						
			eL	50.0	17					
			ME	51 42	11		3			
			MN	52 17	11	1				
			F	6 05						
154	" 18	I_r	eP	12 18.2	4				1760	
			S	21 13	9	1	-	-		
			eL	23.5	18					
			ME	24 46			3			
			MN	25 15	13	7				
			F	12 50						

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2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N				
A_E	(See last sheet)			
A_Z				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s	μ	μ	μ	km.	
155	Nov. 19	II	eP	3 28.1	4				4440	Felt in north-east Celebes.
			iP	28 09	4	-2	-6			
			PR_1	29 43	5	$2\frac{1}{2}$	4			
			iS	34 17	10	-13	-4			
			SR_1	37 21	10	3	8			
				38 04	10	15	12			
			eL	40.8	26					
			ME_1	42 39	19		174			
			MN_1	42 51	19	182				
			ME_2	46 19	12		53			
			MN_2	49 33	14	74				
			F	5 35						
156	" 21	I	eP?	16 47.1						
			S	49 25	10	$1\frac{1}{4}$	$\frac{3}{4}$	-		
			eL	53.4	14					
			ME	54 53	12		15			
			MN	55 31	12	9				
			F	17 42						
157	" 23	I	e	22 03.4	23					A few long waves.
			F	22 20						
158	" 29	I	e(P?)	1 31.5					8500?	
			eS	41.3	10					
				41 43	10	3	4			
			eL	50.7	27					
			MZ	54 51	16			12		
			MN	55 12	17	10				
			ME	55 32	18		24			
			F	3 25						
159	" 30	I	e(P?)	18 04.5	5	$\frac{1}{2}$	-			
			e(S?)	14.8	?					
			eL	18.2	27					
			ME	22 40	13		4			
			MN	23 57	13	$3\frac{1}{2}$				
			F	18 50						
160	" 30	I	e	22 06.5						
			ME	9 40	18		3			
			MN	10 06	17	2				
			F	22 30						

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2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.)

	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N (1)	202	7.8	5.2	0.03
A_E (3)	123	10.5	4.0	0.02
A_E (1)	188	7.8	5.5	0.02
A_Z (3)	125	11.3	7.3	0.02
A_Z (2)	77	5.4	5.5	0.03

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
161	Dec. 1	I	eS	21 17.0	?					
			e(SR$_1$?)	19.3	9	1	-			
			eL	21.3	17					
			ME$_1$	22 47	15		17			
			MN$_1$	24 30	13	13				
			MZ	24 35	13			7		
			MN$_2$	29 08	11	14				
			ME$_2$	29 28	10		13			
			F	22 15						
161$_a$	" 3	I	e	7 59.8	10	-	¾			
			e?	8 18.2	?					
			e(L?)	38.6	21					
			F	9 00						
162	" 6	I$_r$	eP	14 19.5	6	-	1		2300	
			S	23 18	?					
			eL	28.2	18					
			MN	32 54	11	5				
			ME							
			MZ)	33.5	16		12	11		
			F	15 15						
163	" 9	II$_r$	eP	4 39.8	5				2760	Due North.
			iP	39 49	5	-8	-	+10		
				40 26	5	4	5			Lat. 9°.3 S.
			iS	44 13	7	+8	-13			
			PS	44 36	7	8	7			Long. 151°.2 E.
			eL	45.6	24					
			ME$_1$	48 40	15		99			
			MZ	49 12	15			27		
			MN	50 42	10	26				
			ME$_2$	53 15	10		38			
			F	7 15	1					
164	" 10	II$_r$	eP	6 13.7	8				2390	Azim. N.68°.3 E.
			i	14 11	8	-10	-26	+12		
			PR$_1$	15 13	9	4	10			Lat. 24° S.
			iS	17 38	9	-3¼	-6	+15		
			i	17 45	9	-9	+18			Long. 173°.2 E.
			PS	18 09	9	11	20			
			eL	19.5	21					
			ME	21 45	13		39			
			MZ	21 56	12			30		
			MN	23 39	10	77				
			F	8 20						

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N	(See last sheet)			
A_E				
A_Z				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
165	Dec. 11	I	e	7 04.9	?					
			eL	13.2	15					
			MN	15 11	16	6				
			ME	16 19	13		4			
			F	8 00						
166	" 14	I	e?	6 35.5						
			eL	52.4	23					
			ME	54 03	17		7			
			MN	55 12	17	4				
			F	7 40						
168a	" 15	I	e	18 19.5	18	2½				A few long waves.
				22.0	17		2¼			
167	" 16	I	eL	6 37.1	18					
			MN	40 24	13	1				
			ME	41 14	13		1¼			
			F	7 10						
168	" 16	I	eL	11 39.7	18					
			MN	42 47	10	2				
			ME	43 08	14		5			
			F	12 25						
169	" 18	I_r	eP	13 57.1	1				1490	Felt at Ravenswood, Townsville and Charters Towers. (Queensland) (III-IV F.M.)
			i	57 44	3	+5	-8			
				58 03	3	6	6	1½		
			S	59 42	5½	2½	4½			
			M	14 01.1	7	2½	3			
			F	14 04						
170	" 20, 21	I_r	iP	23 41 05	4	-3	½	+1	2760	
			eS	45.5	6	¾	-			
				45 43	6	1½				
			iPS	46 04	6	+5	+6			
			eL	48.7	24					
			ME	50 14	13		12			
			MN	50 53	13	3¼				
			F	0 35						
171	" 21	I	e	10 27.1	6	-	¾			
			eL	33.7	22					
			MZ	36 29	16			8		
			MN	36 43	15	3				
			ME	36 48	15		5			
			F	11 10						

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	V	T_o	$\epsilon : 1$	$\frac{r}{T_o^2}$
A_N		(See last sheet)		
A_E				
A_Z				

No.	Date.	Char.	Phase.	Time (Greenwich)	Per.	Amplitude. A_N	Amplitude. A_E	Amplitude. A_Z	Δ	Remarks.
				h. m. s.	s.	μ	μ	μ	km.	
172	Dec. 21	I	e?	15 43.6						
			e	49.9	?					
			eL	16 14.1	30					
			MN_1	23 36	18	14				
			ME	26 49	19		15			
			MN_2	28 39	18	14				
			F	17 45						
173	" 23	I	e	2 42.0	?					
			e	49.9	10	¾	-			
			eL	54.5	19					
			ME	59 33	12		5			
			MN	59 41	12	5				
			MZ	3 02 02	10			4		
			F	3 50						
174	" 25	I	iP	0 41 04	7	-4	1		5000?	
			SR_1 ?	51 04	8	2	1			Large micro-seisms (4-8 μ) from 14h. to 23h.
			eL	53.5	17					
			MN	56 06	10	2				
			ME	58 27	10		3			
			F	1 35						
175	" 30	I_r	eP	11 12.9					1400	
			eS	15.4	9	-	5			
			PS	15.8	9	½	3			
			eL	17.5	23					
			ME	19 13	13		5			
			MN	22 39	15	3				
			F	11 45						

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