RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 1. JANUARY, 1910.

Seismological Bulletin.

ϕ = 33° 49′ 49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
1	Jan. 1	I_u	i P	11 23 0	10	1·7			0·07			Ep. = 16,000 km.
			i	24 24	10	2·8			0·1			
			i(PR_1)	30 8	10	4·7			0·19			
			S	40 20	10	5·1	5·4		0·2	0·2		
			(PS)	44 8	10							
			e L	12 1·8	24							
			MN_1	9 2	14		10·6			0·2		
			ME_1	10 42	15	17·5			0·3			
			ME_2	14 42	15	15·0			0·27			
			MN_2	16 16	15		12·2			0·2		
			MZ	22 56	15			6·2			0·1	
			ME_3	23 28	13	14·3			0·3			
			(M_{rl})	52 56	17		4·8			0·06		
			F	13 50								
2	„ 10	I_r	e P	19 20·5	4		1·2			0·3		Ep. = 2500 km.
			S	24·6								
			e L	27·1	14							
			M	31·8	8	1·7	2·0		0·1	0·12		
			F	20 20								
3	„ 13	I_r	i P	0 17 54	4	2·2	2·0		0·5	0·5		Ep. = about 1100 km.
			i L	21 22	6	8·2	5·2		0·9	0·5		
			MN	21 38	7		23·0			1·8		
			ME	22 32	7	12·3			1·0			
			F	0 50								
4	„ „	I_r	(e P)	13 53·3								Ep. = 2200 km.
			e S	57·0	9	1·4	1·8		0·06	0·08		
			(e L)	14 0								
			MN	0 54	8		3·9			0·2		
			ME	5 6	7	4·1			0·3			
			F	14 20								
5	„ 15	I_r	e P	10 39·2	6							Ep. = about 1500 km.
			i L	43 47	8							
			MN	44 3	7		4·9			0·4		
			ME	50 59	9	4·9			0·2			
			F	11 15								
6	„ „	I_r	e P	22 27·6	3			1·0			0·4	Ep. = 3200 km.
			SR_1	33 59	10		7·0			0·3		
			e L	37·4	10							
			M	37·6	10	14·5	11·8		0·6	0·5		
			F	23 10								
7	„ 19	I_r	e P	14 57·4								Ep. = 3300 km
			PR_1	59 4	4	1·8			0·45			
			(S)	15 2 26	6	1·2			0·13			
			e L	7 5	16							
			MN	11 0	12		4·5			0·12		
			ME	11 33	14	6·5			0·13			
			F	16 25								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 1. JANUARY, 1910. (Continued.)

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.\ 4^m.\ 38^s.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal.			
	Jan. 22	(see	Note,	*infra*)								
8	„ 23	I_u	(e P)	19 12·5								Ep. = 11,000 km.
			e	14 33								
			(SR_1)	31 51								
			(e L)	51·8	25							Jan. 26. On No. 1, friction present all night. (10h. till 22h. 30m.)
			M	20 9 44	17	6·5	4·8		0·09	0·07		
			F	21 25								
9	„ 29											Ep. = 3300 km.
		I_r	i P	5 2 18	6	3·2	3·0		0·3	0·3		
				2 41	5	10·5			1·6			
			S	7 18								
			e L	11·1	26							
			ME	13 26	14	6·4			0·1			
			MN	13 58	12		5·2			0·1		
			F	6 0								
10	„ 30											Ep. = 2300 km. Origin close to Macquarie Island.
		III$_r$	i P	3 50 15	6	14·3	37·5	37·5	1·6	4·1	4·1	
			i S	54 5	10	78·4	45·9		3·1	1·8		
			e L	57·3	18							
			MZ_1	57 40	10			62·5			2·5	On Z, P and L waves well-marked, but S quite absent.
			MN	59 28	10		104			4·2		
			ME	59 36	10	167			6·7			
			MZ_2	4 4 16	9			50·0			2.4	
			F	6 35								

N.B.—Jan. 22, 9h. 18m., friction began in N.S. damping-cylinder (Seismometer No. 1), and at 9h. 59m. in EW cylinder, causing cessation of microseismic waves. At 11h. 25m., assistant observed friction, and removed it.

Probably the determining cause of this derangement was the great E.Q. near Iceland (P = 8h. 49m. 7s. at Reykjavic, P = 9h. 8m. 38s. at Batavia), whose waves were due here just at this time.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 2 FEBRUARY, 1910.

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.4^m.38^s$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal			
11	Feb. 3	I_r	e P	9 51 47	6							Ep. = 2500 km.
			S	55 44	8	4·4	5·5		0·2	0·3		
			e L	57·8	11							
			MN	58 39	12		2·2			0·06		
			ME	59 3	15	6·2			0·1			
			F	10 40								
12	" "	I_r	(P)	16 48·4	1 / 4							Ep. = about 2600 km.
			i (S)	52·5								[Friction present from 11h. till 21h. 15m. P uncertain,— probably slightly earlier.]
				52 32	12		6·7			0·2		
				52 54	12	31·6			0·9			
			F	?								
13	" 4	III_r	i P	14 5 0	3 / 18	64·7	45·5		0·8	0·5		Ep. = 2300 km.
				6·1	9	30·8	27·9		1·5	1·3		
			i S	8 54								
				9 6	9	81·8	153·0		4·0	7·5		F obscured by No. 14.
			e L	10·3	20							N.B.—Remarkable onset (P): several long waves (T = 18s.), on which were superposed those of 3s. period.
			MN	11 57	14		231·0			4·7		
			ME	12 20	16	298·7			4·6			
			F	?								
14	" "	II_r	i P	14 45 13	9	13·7	9·0		0·6	0·4		Ep. = 2300 km. (After-shock of No. 13.)
			i S	49 10	9							
				49 22	9	40·1	45·0		1·9	2·2		
			e L	50·9	18							
			ME	52 45	14	61·5			1·2			
			MN	53 42	11		47 8			1·5		
			F	16 45								
15	" "	II_r	i P	17 41 40	7	11·4	5·6		0·9	0·4		Ep. = 2300 km. (After-shock of No. 13.)
			i S	45 36	8							
				45 51	8	45·3	31 6		2·8	1·9		
			e L	46 17	18							
			ME	49 58	14	70·2			1·4			F obscured by No. 16.
			MN	50 10	14		45·5			0 9		
			F	?								
16	" "	II_r	i P	18 37 44	7	6·1			0·5			Ep. = 2300 km. (After-shock of No. 13.)
			i S	41 43	10	25·2	31·3		1·0	1·2		A few long waves (T = 15–25s.) at intervals for several hours possibly non-seismic ?)
			e L	44 0	16							
			M	45 19	14	22·6			0·4			
			F	19 10								
17	" 8		e	5 30·7								
			e	36·7								
			e	6 30								
			e	10 5								
18	" 9	I_r	e P	7 50·1								Ep. = 2800 km.
			S	54 20	6	0·8	1·1		0·09	0·1		
			e L	56·9	18							
			MN	58 8	15		3·6			0·06		
			ME	58 41	15	3·7			0.06			
			F	8 25								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 2 FEBRUARY, 1910. (Continued.)

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^{h}.\ 4^{m}.\ 38^{s}.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal.			
19	Feb. 12	II r	i P	18 20 28	4	3·1	14·3	23·0	0·8	3·6	5·7	Ep. = 7500 km. Felt in Japan.
			i S	28 58	8	37·4	13·8		2·3	0·8		
			(PS)	30 5	8	15·4	13·8		1·0	0·8		
			e L	35·6	?							
			MN	37 31	11		8 8			0·3		
			ME	38 36	12	7·9			0·2			
			F	20 0								
20	„ 15	I r	(e P)	1 20·0								Ep. = about 3000 km.
			e(SR$_1$)	26·2								
			e L	29·0	12							
			ME	30 7	11	1·3			0·04			
			MN	31 20	10		1·6			0·06		
			F	1 50								
21	„ 25	I r	(e P)	4 21·7								
			e(SR)	24 54	5	2·1	5·0		0·3	0·8		Ep. = 1600 km.
			e (L)	26·0								
			MN	26 28	12		10·5			0·3		
			ME	32 25	8	2·6			0·1			
			F	4 50								
22	„ 28	I u	e (S)	21 21·7								Ep. = 13,500 km. (Equador?)
			e (L)	47·8								
			MN	54·7	18		3·6			0·04		
			ME	55·7	16	2·9			0·04			
			F	22 15								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 3. MARCH, 1910.

Seismological Bulletin.

ϕ = 33°49′49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
23	Mar. 1	I_r	e P	11 37·2	5	1·3			0·2			Ep. = 3400 km.
			(S)	42·3								
			e L	46·8	17							
			MN	48 45	12		3·9			0·1		
			ME	50 38	14	6·1			0·1			
			F	12 35								
24	„ 25	I_u	e(P)	15 32·1								Ep. = 11,000 km (?)
			e(L)	16 6·3	30							
			ME	23·6	16	4·8			0·08			
			MN	26·7	14		2·1			0·04		
			F	45								
			(M_{rl})	52·6	(40)							
25	„ 30	II_r	i P	17 0 34	6	4·4	2·3		0·5	0·2		Ep. = 2500 km.
			PR_l	1 30	6	35·3	34·2		3·9	3·8		
			i S	4 29	8	47·0	44·8		2·9	2·8		
				4 51	8	211·0	134·2		13·2	8·4		
			e L	5·4	16							
			MN	9 5	14		180·2			0·9		
			ME	9 23	12	164·3			4·5			
			F	19 30								
26	„ „	I_r	i P	18 0 34	?							Ep. = 2500 km. (After-shock of No. 25.)
			i S	4 29	6	19·4	7·6		2·1	0·8		
			e L	7·7	15							
			ME	9 42	13	30·9			0·7			
			MN	10 36	10		18·3			0·7		
			F	?								F obscured by end portion of No. 25.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 4. APRIL, 1910.

Seismological Bulletin.

ϕ = 33°49′49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal.			
27	April 1	II u	e (P)	13 55·5	5							Ep. = 6500 km. (?)
			(S)	14 3·6	6	2·2	4·5		0·2	0·5		
			(e L)	6·3	?							
			M	7·6	8	74·0	70·2		4·6	4·4		
			F	15 5								
27a	„ 2	I	e (S)	11 28·0								
			i	28 20	10		3·6			0·1		
			M	30·4	12	0·9	3·0		0·02	0·08		
			F	11 35								
28	„ „	I r	e P	12 14·2	1 / 3							Ep. = 2300 km.
			i S	17 56	6	3·1	6·4		0·3	0·7		
				18 20	5	11·4	3·6		1·8	0·5		
			e L	19.4	17							
			ME	21 6	14	3·7			0·07			
			MN	21 37	12		1·5			0·04		
			F	12 35								
29	„ 8	I r	i P	16 42 26	5	2·2	1·2		0·3	0·2		Ep. = 2500 km.
				43 11	5	6·6	0·4		1·0	1·1		
			S	46 30	?							
			e L	49·2	18							
			i M	51 26	18	90·3	32·4		1·1	0·4		
			MN_2	54 3	11		12·2			0·4		
			F	17 20								
30	„ 12	II u	i P	0 32 32	2 / 6	3·5	6·5	23·5	0·4	0·7	2·6	Ep. = 7200 km. (Formosa.)
			i S	41 2	6	61·6	24·7	3·3	6·8	2·7	0·3	
				41 20	6			6·7			0·7	
			(PS)	42 16	7	48·6	47·5		3·9	3·8		
			(e L)	48·2	(20)							
			M	49·7	16	61·6	37·0	31·4	0·9	0·5	0·4	
			C	58·5	12	17·2	14·8		0·4	0·4		
			F	1 45								
31	„ 13	I r	e (P)	5 46·2	?							Ep. = 1700 km. (?)
			(S)	49 0	10							
			e L	51·0	16							
			ME	52 23	11	4·4			0·1			
			MN	54 6	9		4·0			0·2		
			F	6 20								
32	„ 16	II r	(e P)	12 36·6								Ep. = 3700 km. (?)
			S	41·9								
			(e L)	46 9	(16)							
			ME	49 34	11	120.4			3·9			
			MN	50 4	10		94·4			3·7		
			MZ	51 25	9			17·8			0·8	
			F	14 0								
33	„ 20	I r	i P	22 27 46	4	8·7	1·3		2·1	0·3		Ep. = 3100 km.
			PR_1	29 5	6	20·2	2·6		2·2	0·3		
			S	32 21	7	4·5	3·4		0·3	0·3		
			SR_1	35 3	7	22·1	39 9		1·8	3·2		
			SR_2	34 47	10	1·9	8·1		0·1	0·3		
			e L	40·5	12							
			M	43·5	10	3·1	2·5		0·1	0·1		
			F	23 20								
34	„ 23	I	e	15 52·8								
			ME	53 17	14	2·4			0·05			
			MN	54 48	16		1·4			0·02		
			F	16 5								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 5. MAY, 1910.

Seismological Bulletin.

ϕ = 33° 49′ 49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal.			
35	May 1	II_r	i P	18 35 15	7	15·0	5·1	14·9	1·2	0·4	1·2	Ep. = 2400 km.
				35 27	8	65·3	22·8	34·0	4·1	1·4	2·1	
			i S	39 13	10	141·8	112.5	33·6	5·7	4·5	1·4	
			PS	39 24	9			89·0			4·4	
			(e L)	40·3	(15)							
			MZ	43 15	16			157·0			2·4	
			MN	43 28	13		149·6			3·5		
			ME	42 32	14	80·6			1·6			
			F	20 30								
36	„ „	I_r	i P	21 26 56	1 / 2							Ep. = 2300 km
			i S	30 43	6	13·8	4·1		1·5	0·4		
			MN	34 24	12		2·2			0·06		
			ME	36 36	12	1·8			0·05			
			F	21 45								
37	„ 4	I	e	15 49·6								
			ME	51 44	11	3·7			0·1			
			MN	53 1	11		1·8			0·06		
			F	16 5								
38	„ 6	I	e	23 18·3								
			ME	24 37	12	2·6			0·07			
			MN	24 50	12		5·2			0·1		
			F	23 40								
39	„ 8	I	e	18 23·7								
			M	27·0	12	1·8	2·2		0 05	0·06		
			F	18 35								
40	„ 10	I	e	18 40·7								A few long waves.
			e	47·5								
41	„ 11	I	e	18 14·8								Very long waves (T = 50–55s.)
			e	33·5								
42	„ „	I	e	19 56·4								„ „ „ „ „
			e	20 32·4								
			e	45·5								
43	„ 13	I	e	2 28·2								
			M	31·8	12	0·9	1·5		0·02	0·04		
			F	2 36								
44	„ „	I_u	i P	8 22 12								
			ME	58 3	14	2·5			0·05			
			MN	9 5·3	12		1·5			0·04		
			F	9 26								
45	„ 15	II_r	i P	16 11 37	4	3·2	2·5	4·9	0·8	0·6	1·2	Ep. = 4900 km.
			PR_1	12 55	4	4·5	2·1		1·1	0·5		
			S	17 8	5	2·2			0·3			
			PS	17 50	5	5·6			0·9			
			(e L)	19·7	?							
			M	24·7	10	22·7	32·1	56·0	0·9	1·2	2·2	
			F	17 5								
46	„ 18	I	(e)	9 57·6								
			MN	10 1·9	14		2·2			0·04		
			ME	3·0	16	6 6			0·1			
			F	10 20								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 5. MAY, 1910. (Continued)

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.\ 4^m.\ 38^s.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
47	May 21	I	e P	22 48·0								
			i	52 18	6	0·9	3·7		0·1	0·4		
			MN	53·7	8		5·7			0·3		
			ME	54·0	6	4·3			0·5			
			F	23 15								
48	„ 22	I_u	e P	6 35·9	2	0·5	?	3·8	0 5	?	3·8	Ep. = 8600 km.
			e S	45·6	12	1·8	3·0		0·05	0·08		
			PS	47·0	12	0·9	4·5		0 02	0·1		
			SR_1	51·2	18	6·3	21·6		0 07	0·2		
			e L	57·7	25							
			ME	7 3 49	20	39·0			0·4			
			MN^1	6 6	20		34·5			0·3		
			MZ	6 12	20			50·0			0·5	
			ME_2	8 53	16	23·1			0·3			
			F	8 10								
49	„ 31	I_r	e (P)	5 25·2	?							Ep. = 4800 km. (?)
			e (S)	31·5	16	3·3			0·05			
			e (L)	49·2	24							
			ME_1	50·7	20	10·4			0·1			
			MN_1	53·2	16		2·8			0·04		
			ME_2	6 4·7	14	3 7			0·08			
			MN_2	7·1	12		1·5			0·04		
			F	7 0								
												N.B.—The following was inadvertently omitted in the last sheet:
44*a*	May 15	I_r	e P	4 36·6	5	1 3			0·2			Ep. = 2400 km.
			i S	40 31	7	3 1	4·5		0·2	0·4		
			PS	40 47	7	7·9	1·1		0·6	0·1		
			e L	42·8	20							
			ME	43 35	16	5·0			0·07			
			MN	44 51	12		0·8			0·02		
			F	5 8								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 6. JUNE, 1910.

Seismological Bulletin.

ϕ = 33°49′49″S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal.			
50	June 1	II_r	i P	6 0 14	6	20·2	11.0	20·2	2·2	1·2	2·2	Ep. = 2400 km.
				0 26	6	90·3	37·6	23·5	10·0	4·2	2·6	
			i S	4 10	13	162·0	90·0	185·4	3·8	2·1	4·4	
				4 24	13	378·0	276·3	309·0	9·0	6·5	7·3	
			e L	5·3	20							
			ME	7 42	15	220·4			3·9			(F obscured by No. 51).
			MZ	8 13	16			157·0			2·4	
			MN	8 25	13		171·0			4·0		
			F	?								
51	„ „	II_r	i P	6 52 54	7	11·2	2·5	14·9	0·9	0·2	1·2	Ep. = 2400 km. (After-shock of No. 50.)
				53 6	7	51·6	22·4	74·2	4·2	1·8	6·0	
			i S	56 47	12	106·8	55·5	139·2	3·0	1·5	3·8	
				57 6	12	215·4	231·6	156·6	6·0	6·4	4·3	
			e L	57·8	20							
			ME	7 0 12	15	113·1			2·0			
			MZ	0 25	16			65·6			1·0	
			MN	1 15	11		37·2			1·2		
			F	8 30								
52	„ „	I_r	i P	18 23 35	{1 / 3	1·4			0 6			Ep. = 2300 km.
			i S	27 25	7	11·2	2·5		0·9	0·2		
			SR_1	29 55	8	10·8	6·0		0·7	0·4		
			e L	32·1	?							
			MN	34 1	12		61·4			1·7		
			ME	34 16	12	53·4			1·5			
			F	19 6								
53	„ 9											E.Q. waves were recorded from about 5h 8m. till 6h. but measurements would be unreliable, owing to work going on just then in the vicinity of the seismometers.
54	„ „	I_u	e P	11 58·5	2							Ep. = 7200 km.
			S	12 7·2	10	1·9	2·0		0·07	0·08		
			(e L)	14·3	?							
			ME	22·4	20	10·8			0·1			
			MN	23·8	20		11·8			0·1		
			F	12 50								
55	„ 16	III_r	i P	6 35 25	5	200·7	132·9	123·0	32·1	21·2	19·7	Ep. = 2400 km.
				36 30	5	269·0			43·0			Felt in New Caledonia, but origin at some distance eastwards, in bed of Pacific.
				36 53	6		206·9			23·0		
			i S	39 17	8	320·6	228·8		20·0	14·3		
			e L	40·8	40							
			MZ	43 55	15			1000·8			17 6	
			ME	44 16	14	945·0			19·3			
			MN	46 29	12		861·8			24·0		
			C	7 32·9	10	3·2	22·5		0·1	0·9		
			F	10 20								
56	„ 23	I_r	(e P)	3 2·1	4							Ep. = 1800 km. (?)
			(S)	5·2	6	8·4			0·2			
			(e L)	9·5	?							
			M	13·8	15	58·0	37·8		0·2	0·1		
			F	3 30								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 6. JUNE, 1910. (Continued.)

Seismological Bulletin.

(For further details, see inside of cover.)

ϕ = 33°49′49″S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0. h. m. s.	Period. (T) s.	A (Earth-particle.) E μ	A N μ	A Z μ	Δg E milligal	Δg N milligal	Δg Z milligal	REMARKS.
57	June 23	I_r	e P	10 4·4	{2 4		0·8			0·05		Ep. = 2200 km.
			S	7 52	?							
			e L	10·9	18							
			ME	13 37	12	2·7			0·07			
			MN	14 20	12		2·9			0·08		
			F	10 43								
58	„ 24	I_r	(e P)	2 35·1								Ep. = 2900 km. (?)
			S	39 30								
			(e I.)	42·3	8							
			MN	43 14	5		5·8			0·9		Unusually short wave-lengths.
			ME	43 59	6	6·3			0·7			
			C	46·0	12	5·4	4·5		0·1	0·1		
			F	3 0								
59	„ 29	II_r	i P	10 50 52	3							Ep. = 3400 km (?)
				52·0	20	54·0			0·5			
			i (S)	55 56	20	81·0	24·0		0·8	0·2		N.B.—On EW component, just after P, remarkable occurrence of long waves (T = 20s.), as in No. 13 (1910, Feb. 4).
			(SR_1)	57 13	16	30·0	83·8		0·4	1·3		
			(e L)	58·1	(25)							
			ME	11 2 4	16	220·4			3·4			
			MN_1	4 17	11		67·1			2·2		
			MN_2	7 28	10		62·0			2·5		
			MN_3	13 4	12		88·8			2·4		
			F	13 30								
60	„ „	II_r	i P	14 23 21	3	2·3			1·0			Ep. = 3400 km. (?) (After-shock of No. 59 ?)
				24 2	5	6·8			1·1			
			(S)	28 30	10	8·2	4·0		0·3	0·2		
			(e L)	30·9	30							
			MN	35 13	10		54·5			2·2		
			ME	36 20	12	61·4			1·7			
			F	16 10								
61	„ „											A few long-period waves from 14h. 45m. till 16h. (probably non-seismic).
62	„ „	I	(e P)	18 20·0								
			(e S)	22·6	4	2·2			0·5			
			(e L)	25·2	(20)							
			MN	26 43	16		33·8			0·5		
			ME	27 43	16	30·1			0·5			
			F	18 56								
63	„ 30	I_r	e(P)	3 8·8	3	4·6	0·9		2·0	0·4		Ep. = 2000 km.
			(S)	12 14	8		4·5			0·3		
			(e L)	15·9	(12)							
			MN	21 58	8		1·9			0·1		
			ME	23 54	14	6·3			0·1			
			F	3 35								
64	„ „	I	e	4 4·9								
			e	6·4	12		2·2			0·06		
			ME	8 10	16	3·4			0·05			
			MN	9 17	12		2·2			0·06		
			F	4 29								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 7. JULY, 1910.

Seismological Bulletin.

ϕ = 33°49′49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal			
65	July 3	I_r	e	6 16·0								
			e L	18·4	15							
			ME	19-16	15	22			0·4			
			MN	19-28	14		11			0·2		
			F	6-43								
66	„ 5	I_r	e P	10–39·8								Ep. = 3700 km.
			S	45-19								
			eL	48·0	16							
			MN	49 33	14		4½			0·1		
			ME	51 6	14	6½			0·1			
			F	11 24								
67	„ 7	II_r	e P	8 24·7								Ep. = 4800 km.
			e(PR_1)	26·4	3							
			S	31 6								
			PS	31 39	?							
			SR_1	34 47	10	5½	7		0·2	0·2		
			e L	38·4	22							
			MZ	43 48	20			100			1·0	
			ME	44 19	16	89			1·4			
			MN	44 53	12		65			1·8		
			F	10 40								
68	„ 8	II_r	e (L)	3 12·0	20							Earlier portion lost (adjustments).
			MN	13 19	16		4½			0·07		
			ME	16 46	?							
			F	3 30								
69	„ 8	I_u	e P	4 8·2								Ep. = 6500 km. (?)
			(S)	16 13	8	1	½		0·06	0·03		
			e L	21·4	20							
			MN_1	23 7	18		19			0·2		
			ME	26 14	16	17			0·3			
			MN_2	28 45	14		27			0·5		
			F	5 50								
70	„ 9	I_r	e P	16 14·6	2·5	½			0·3			Ep. = 3200 km.
			PR_1	15 54	4	1½			0·3			
			S	19 25	6	½			0·04			
			e L	26·0	18							
			M	27 27	14	1½			0·03			
			F	16 40								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 7. JULY, 1910. (Continued.)

Seismological Bulletin.

ϕ = 33° 49′ 49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal.			
71	July 11	I	(e)	20 38·2								
			MN	42 15	15		5			0·1		
			ME	43 31	15	8			0·1			
			F	21 25								
72	„ 12	II r	i P	21 9 21	4	4½	12½		1·1	3·1		Ep. = 2100 km.
			i	9 44	4	11	33		2·8	8·3		
			i (S)	12 53	12	43	32		1·2	0·9		
			MN_1	13 24	12		48			1·3		
			ME	13 42	14	115			2·3			
			MN_2	15 15	12		44			1·2		
			MN_3	19 22	10		40			1·6		
			F	23 22								
73	„ 15	I	i P	12 7 41	3	2½			1·02			Ep. = 3200 km
			PR_1	9 33	5		2½			0·4		
			i S	12 31	8		3¾			0·2		
			e L	14·2	22							
			ME	15 18	20	39			0·4			
			MN	18 43	12		4¾			0·1		
			F	13 33								
74	„ 24	I r	e P	15 23·2	3							Ep. = 3200 km.
			S	28 4	7	1			0·07			
			e L	30·7	22							
			MN	32 9	15		21			0·4		
			ME	33 35	15	23			0·4			
			F	16 30								
75	„ 29	III r	e P	10 32·7	3		1½			0·6		Ep. = 2100 km.
			i (PR_1)	33 47	6		5½			0·6		
			S	37 16	8	4½	2¼		0·3	0·1		
			e L	40·0	40							
			MN	43 54	20		884			8·8		
			ME	44 52	20	1200			12·0			
			M_{rl}	12 21 40	40?							
			F	12 33								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 8. AUGUST, 1910.

Seismological Bulletin.

ϕ = 33°49′49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
76	Aug. 15	I	e	17 16·5								
			MN	23 20	12		2¾			0·07		
			ME	23 43	12	6			0·1			
			F	18 0								
77	„ 16	I r	e P	7 47·5								Ep. = 1700 km. (?)
			e L	52·7	20							
			MN	56 12	18		10½			0·1		
			ME	57 14	18	14			0·2			
			F	9 0								
78	„ 17	I	e	23 18								
			eL	19·4	24							
			ME	24 7	16	6½			0·1			
			MN	28 47	16		5			0·08		
			F	23 40								
79	„ 18	I	(e)	11 25·8								
			ME	30 12	12	4¾			0·1			
			MN	30 38	10		2			0·08		
			F	11 52								
80	„ 18	I	e	16 50·2								
			e (S)	53·9	7	1½			0·1			
			MN	57 14	16		7			0·1		
			ME	59 28	9	1¼			0·06			
			F	17 20								
81	„ 20	I	e	20 59·0	8	1½			0·1			
				59 16	5	6½	4		1·0	0·6		
			MZ	59 31	5			2			0·3	
			ME	59 58	6	10			1·1			
			MN	21 0 0	6		5½			0·6		
			F	21 10								
82	„ 21	II r	i P	5 44 8	2·5			4			2·6	Ep. = 3600 km.
				44 17	2·5			62			39·7	
			i(PR$_1$)	45 45	3			78			34·8	
			i S	49 24	6			13			1·5	
			(PS)	49 37	6			27			3·0	Beginning lost on E and N (adjustments).
			SR$_1$	51 51	7			20			1·6	
			MN	56 58	12		53			1·4		
			ME	57 4	14	29			0·6			
			MZ	6 2 0	12			17			0·5	
			F	6 53								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 9. SEPTEMBER, 1910.

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.\ 4^m.\ 38^s.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal.			
83	Sept. 2	I_u	(e P)	0 55·2								Ep. = 7500 km. (?)
			(e S)	1 4·0								
			(e L)	12·3								
			MN	22 30	18		7			0·08		
			ME	22 34	18	15			0·2			
			F	1 51								
84	„ 2	I	e	14 39·2	4	1½			0·3			
			e L	54·0	26							
			MN	58 14	20		5¾			0·06		
			ME	59 26	18	6			0·07			
			F	15 20								
85	„ 2	I	e	17 8·1								
			MN	16 38	20		5¾			0 06		
			ME	17 6	16	4½			0·07			
			F	17 43								
86	„ 6	I_u	i (P)	20 21 39	5		1¼			0·2		Ep. = 10,000 km (?)
			i	31 7	8		3			0·2		
			e L	53·1								
			ME_1	56 58	20	3¾			0·03			
			MN_1	57 13	20		8½			0·08		
			e	21 14·0	14		2¼			0·04		
			ME_2	21 36	16	2¼			0·04			
			MN_2	23 50	15		4¾			0·08		
			F	21 56								
87	„ 7	III_r	i P	7 16 54								Ep. = 3100 km.
			i S	21 35								
			PS	21 44								
			e L	25·6								
			ME	29 0	12	208			5·8			
			MN	30 0	15		372			6·6		
			MZ	30 50	15			306			5·4	
			F	9 27								
88	„ 8	I	e	5 52·0	24?							
			M	56·2	16	9·4	6·4		0·1	0·1		
			F	6 18								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 9. SEPTEMBER, 1910. (Continued.)

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.\ 4^m.\ 38^s.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
89	Sept. 9	I_u	i P	1 26 19	4							Ep. = 9500 km.
			S	36 49	6	8½	7½		1·0	0·8		
			e L	49·2	24							At 3h. 36·3m., some long waves of larger amplitude (M rep. 1 ?)
			MN	58 12	22		37			0·3		
			ME	59 44	24	25			0·2			
			F	3 52								
90	„ 10	II_r	i P	12 32 35	3	2	6		0·8	2·7		Ep. = 2900 km.
			i	33 14	3	2¼	8		1·0	3·5		
			i S	37 3	7	12	4½		1·0	0·4		
			e L	41 4	?							
			MN	43 34	12		21			0·6		
			ME	44 54	10	16			0·6			
			F	13 52								
91	„ 15	I_r	e P	14 2·1								Ep. = 4400 km.
			S	8 14	6	1¾			0·2			
			e L	15·3	20							
			ME	21 10	15	10			0·2			
			MN	22 26	12		6			0·2		
			F	15 20								
92	„ 16	I	e (L)	12 6·0	16							
			MN	10 55	14		2¾			0·05		
			ME	12 20	12	1¼			0·03			
			F	12 40								
93	„ 23	I_r	e (P)	0 52·8								Ep. = 2800 km.
			e (S)	57·2	5		1½			0·2		
			MN	1 0 52	14		12			0·2		
			ME	2 54	14	7¼			0·1			
			F	1 52								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 10. OCTOBER, 1910.

Seismological Bulletin.

$\phi = 33°\,49'\,49''$ S.
$\lambda = 10^{h}.\,4^{m}.\,38^{s}$. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal.			
94	Oct. 3	I	e (S)	10 59·8	8	4			0·2			
			ME	11 2 35	16	10½			0·1			
			MN	2 47	14		7¼			0·1		
			F	11 27								
95	„ 7	I_r	e	7 0·7								Ep. = 2900 km.
			e (L)	9·4	20							
			MN	11 15	12		17			0·4		
			ME	16 36	12	10			0·3			
			F	8 28								
96	„ 7	I	e (P)	11 58·2								
			e	12 3·1	?							
			MN	6 19	15		10			0·2		
			ME	10 20	12	10			0·3			
			F	13 0								
97	„ 8	I	MN	21 6 30	14		6			0·1		
			ME	6 51	12	4½			0·1			
			F	21 31								
98	„ 14	II	e	4 3·9								
			e (L)	10·0	16							
			ME_1	12 30	12	4½			0·1			
			MN_1	12 55	14		4¼			0·09		
			MN_2	21 43	10		3¾			0·1		
			ME	22 23	12	4½			0·1			
			F	4 43								
99	„ 18	I_r	e	2 41·7								Ep. = 2100 km.
			e (L)	48·0	20							
			MN	50 43	15		29			0·5		
			MZ	51 13	15			56			1·0	
			ME	52 4	15	46			0·8			
			F	4 7								
100	„ 20	I	e (P)	5 19·7	5	1¾			0·3			
			e	23·4	9	2½			0·1			
			e (L)	29 2	?							
			MN	30 49	14		16			0·3		
			ME	35 37	16	21			0·3			
			F	6 34								
101	„ 24	I_r	e P	14 35·4	3	2¼	½		1·0	0·2		Ep. = 3000 km.
			i	35 32	4	3½	½		0·8	0·1		
			i (S)	39 56	8	2½	5		0·1	0·3		
			e L	41·4	20							
			MN	42 58	14		5¾			0·1		
			ME	43 22	15	16			0·3			
			F	15 10								
102	„ 30	I	e (L)	7 48·1	20							
			M	53·1	14	22	32		0·4	0·6		
			F	8 57								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 11. NOVEMBER, 1910.

Seismological Bulletin.

ϕ = 33°49′49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal.			
103	Nov. 1	I	e L	20 58·2	16							
			M	21 0 4	10	1	3		0·04	0·1		
			F	21 16								
104	„ 2	I r	e	13 34·5								Ep. = 2000 km. (?)
			e (S)	37·6	8	3¼	3¼		0·2	0·2		
			e (L)	43·0	16							
			MN	45 39	14		7			0·1		
			ME	45 47	14	8			0·2			
			F	14 28								
105	„ 8	I	e	16 58·3								Ep. = 2700 km. (?)
			e S	17 2·6	10		1½			0·06		
			e L	8·7	18							
			ME	8 52	18	56			0·7			
			MN	10 27	15		31			0·5		
			MN_2	11 37	14		25			0·5		
			F	18 24								
106	„ 9	III r	i P	6 7·0	4	8¾	9¼	2½	2·2	2·3	0·6	Ep. = 2800 km.
			i	7·6	6	37	40	67	4·1	4·5	7·4	Near island of Mallicolo (New Hebridies) where strongly felt
				7·9	7			128			10·5	
				9·7	10	108	91	67	4·3	3·6	2·7	At 6h. 14m, 44 .. displacement of zero-line on both the Wiechert and Mainka seismometers, showing a tilt of ground (towards N.) of approximately 1·5″
				10·3	10	50	120	134	2·0	4·8	5·4	
			S	11·4	12	280	212	260	7·8	6·0	7·2	
				11·9	12	630	520	260	17·7	14·5	7·2	
				12·7	14	1200	1190	480	24·6	24·3	10·0	
			e L	13·9	20							
			ME	14·6	19	3600			40·0			
			MZ	15·1	18			3200			40·4	
			MN	15·4	17		1780			24·7		
				21·1	14		338	480		8·0	10·0	
				25·1	12		673	191		18·7	5·3	
				44·4	12	168	154	87	4·6	4·3	2·4	
			C	7 1·0	10	74	58	45	3·0	2·3	1·8	
				9 20·8	20	13	8½		0·1	0·08		
			F	10 20								
107	„ 9	I r	e P	9 42·6	4	½			0·1			Ep. = 2700 km.
			i S	46 9	7	1½	3		0·1	0·2		L waves not discernible from those of No. 106, on which P and S are superposed.
108	„ 10	II r	i P	12 25 12	4	7	6½		1·8	1·6		Ep. = 2600 km.
				25 17	4			5			1·2	
			i S	29 26	7	18	15	10	1·5	1·2	0·8	
			PS	29 54	7	29	20		2·4	1·8		
			e L	32·3	20							
			ME	33 23	16	68			1·0			
			MZ	33 38	16			33			0·5	
			MN	34 44	14		42			0·8		
			F	15 10								
109	„ 15	I u	i P	14 34 26	4	¾		12	0·2		3·0	Ep. = 9100 km.
			PR	37 58	9		5¾			0·3		
			i S	44 40	14	20½	17		0·4	0·3		
			(PS)	45 57	14	10	19½		0·2	0·4		
			e L	39·1	24							
			ME	15 4 55	24	32			0·2			
			F	17 0								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 11. NOVEMBER, 1910. (Continued.)

Seismological Bulletin.

ϕ = 33°49′49″S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
110	Nov. 16	I	e P	12 28·8	3							Ep. = 2700 km.
			e S	33·0	7							
			i	33·9	7		5			0·4		
			e L	36·0	12							
			ME	39 42	10	2			0·1			
			MN	40 7	10		3			0·1		
			F	13 25								
111	„ 24	I v	e P	22 54·6	1	1	1½		1·0	1·5		Ep. = 500 km. (?)
			e	54·7	8							
				55·1	8	10	3		0·6	0·2		At 22h. 54·7m. several waves of relatively long period, with 1 s. waves superposed.
			(e L)	56·1	7							
			M	56·3	5	3½	3		0·6	0·4		
			F	23 12								
112	„ 25	I r	i P	19 9 56	3	1	2		0·4	0·8		Ep. = 2700 km.
			i	10 11	4	4	4½		1·0	1·1		
			i S	14 7	7	2¾	5		0·2	0·4		
			i	14 17	7	17	24		1·4	2·0		
			e L	16·4	20							
			MZ	16·8	20			50			0·5	
			ME	17 31	20	76			0·7			
			MN	17 48	18		31			0·4		
			F	20 25								
113	„ 26	III r	i P	4 46 29	4	14½	18½	6	3·6	4·6	1·5	Ep. = 2400 km.
				46 42	5	25	30	27	4·0	5·0	4·2	
			S	50 18	11	34	36	14	1·1	1·2	0·4	
			i	50 42	11	309	356	143	10·2	11·7	4·7	
			(e L)	52·9	20							
			MZ	54 22	18			442			5·4	(F obscured by No. 114.)
			ME	55 3	14	400			8·2			
			MN	55 31	14		437			8·9		
			i	5 9 26	12			122			3·4	
			C	5 51·0	12	63	34	17½	1·7	0·9	0·5	Ep. = 2400 km.
114	„ „	II r	i P	6 18 14	4	7½	16	1¼	1·9	4·0	0·3	
				18 27	5			12			2·0	(2nd shock of No. 113.)
			S	21 59	8	4¾	5		0·3	0·3		
				22 42	9	56	63		2·7	3·1		
			(e L)	24·1	24							
			ME	26 17	16	125			2·0			
			MZ	26 53	12			35			1·0	
			MN	27 20	14		105			2·1		
			F	8 46								
115	„ 29	I r	i P	11 59 32	4·5	7	7		1·3	1·3		Ep. = 1500 km.
				59 36	4·5	10	9¾		2·0	1·9		
			i (S)	12 2 7	6	4	4		0·4	0·4		
			F	12 27								
116	„ 30	I r	e P	14 44·1								
			i	44 15	4	2	3	1¼	0·5	0·7	0·3	Ep. = 3000 km.
			e S	48·7								
			i	49 5	7	2	4		0·1	0·3		
			e L	51·4	16							
			MN	52 3	12		1			0·03		
			ME	53 10	12	3			0·08			
			F	15 14								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 12. DECEMBER 1910.

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^{h}.4^{m}.38^{s}$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal.			
117	Dec. 1	I r	e(P)	3 40·6								Ep. = 1300 km. (?)
			e(S)	42·9	·7		2½			0·2		
			e L	43·7	22							
			ME	47·1	12	22	11½		0·6	0·3		
			MN									
			MZ	55 7	9			4½			0·2	
			F	4 36								
118	„ 1	II r	i P	15 50 3	4	3	2¾	3½	0·8	0·7	0·9	Ep. = 4300 km.
			PR	51 38	14	24	18		0·5	0·3		
			S	56·0	16	27	15		0·4	0·2		
			e L	16 0·1	22							
			MN	5·1	12	52	48					
			ME						1·4	1·3		
			MZ	7 57	12			17			0·5	
			F	17 36								
119	„ 2	I r	e P	3 17·8								Ep. = 2400 km.
			S	21 48	12	7½	4¼		0·2	0·1		
			e(L)	23·1	16							
			ME	28 30	9	6½			0·3			
			MN_1	28 40	10		15			0·6		
			MN_2	31 20	9		12			0·6		
			F	4 40								
120	„ 3	I r	e P	4 7·6								Ep. = 3100 km.
			i S	12 16	10		4½			0·2		
			e L	15·3	24							
			ME	17 41	16	11½			0·1			
			MZ	18 34	15			14			0·2	
			MN	19 26	14		14			0·3		
			F	4 56								
121	„ 3	II r	i P	8 0 29	3	1½	9½		0·6	4·2		Ep. = 2700 km.
				0 37	3			11			4·8	At commencement (P), several waves of long period (15-20s.) on which short waves (3s.) superposed.
			i S	4 40	10	20	48	11	0·8	1·9	0·4	
				6 47	10	114	73		4·5	2·9		
			e L	8·6	16							
			MN	10 33	9		60			3·0		
			ME	10 42	9	93			4·6			
			MZ_1	11 7	8			14			0·8	
			MZ_2	16 28	8			20			1·2	
			F	9 56								
122	„ 4	III r	i P	11 7 40	6	2¾	11½	17	0·3	1·3	1·9	Ep. = 1300 km.
			L	11 34	12	6	24		0·1	0·6		S. doubtful.
			M_1	13·6	12	315	265	87	8·7	7·3	2·4	
			M_2	17 38	9	168	129	18	8·3	6·3	0·9	
			C	46 36	8	29	11		1·8	0·7		
			F	13 19								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 12. DECEMBER 1910. (Contined.)

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.\ 4^m.\ 38^s.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
123	Dec. 10	III r	i P	9 32·1	6	11	21	20	1·2	2·3	2·2	Ep. = 2800 km
				32·6	7	24	33	99	2·0	2·7	8·0	
			S	36·6	9	52	53	44	2·5	2·6	2·2	
			(e L)	39·6	18							
			MN_1	42·9	10		547			21·8		
			MZ	44·7	10			280			11·2	
			ME	45·1	10	737			29·5			
			MN_2	45·7	10		474			18·9		
			C	10 9·7	11	49	100	57	1·6	3·3	1·9	
			F	14 30								
124	„ 11	I r	e P	3 46·3								Ep. = 3300 km.
			S	51 18								
			e L	54·3	15							
			MN	57 18	10		7¼			0·3		
			ME	58 18	10	12			0·4			
			F	4 57								
125	„ 11	I r	e (P)	14 9·4								
			e (S)	13·4								
			e L	17·0	16							
			ME	19 54	14	4¼			0·08			
			MN	20 13	11		3½			0·1		
			F	15 8								
126	„ 11	I r	e	23 51·3								Ep. = 2500 (?) km.
			eL	56·7	16							
			ME	58 54	15	10			0·1			
			MN	59 15	12		6½			0·1		
			F	0 38								
127	„ 13	II n	e P	12 2·8	5	2½			0·4			Ep. = 12,000 km.
			(PR_1)	6 32	8	6			0·4			(Zanzibar.)
			(e S)	15·1	(10)							
			(e L)	23·6	30							Strong microseismic movement all day.
			ME_1	35 55	16	82			1·3			
			MN_1	37 22	16		77			1·2		
			ME_2	43 49	14	104			2·1			
			MZ	43 53	14			72			1·4	
			MN_2	43 59	14		65			1·3		
			ME_3	49·0	14	62			1·2			
			MN_3	49 39	14		45			1·0		
			F	14 33								
128	„ 14	II r	i P	20 51 39	4	21	9¼	23	5·2	2·3	5·8	Ep. = 2400 km.
			i	53 11	5	16	9¼	6	2·6	1·5	1·0	
			S	55 32	6	17	5·6		1·9	0·6		
			i PS	56 7	6	53	13	13	6·0	1·4	1·5	
			i	59 11	9	45	35		2·2	1·7		
			(e L)	21 2·5	?							
			ME	5 11	10	25			1·0			
			MN	5 26	9		19			0·9		
			F	22 21								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 12. DECEMBER 1910. (Contined.)

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.\ 4^m.\ 38^s.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δ_g E	Δ_g N	Δ_g Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal.			
129	Dec. 16	III u	i P	14 53 11	4	1	2¼	1¼	0 2	0·6	0·3	Ep. = 5500 km.
				53·8	4	7	12	12	1·7	3·1	3·0	(Mindanao)
			PR_1	55·5	5	8¾	16	16	1·4	2·6	2·6	Nos. 130–132 proceed from the same origin.
			S	15 0 14	7	29	17	5	2·3	1·4	0·4	
			SR_1	3 36	8	37	36	27	2·3	2·2	1·7	
				3·8	8	131	113	34	8·2	7·0	2·1	
			(e L)	8·9	?							
			M	15·0	17	650	790	540	9·1	10·9	7·4	
			C	33 53	13	87	91	62	2 0	2·1	1·4	
130	„ 16	I u	ME	23 46 21	16	4¾			0·07			(See No. 129.)
			MN	46 42	20		9			0·09		Beginning lost (changing paper).
			F	0 17								
131	„ 17	I u	(e P)	6 31·0								(See No. 129.)
			MN	51 14	14		3			0·05		
			ME	54 49	12	1½			0·04			
			F	7 9								
132	„ 18	I u	i P	2 53 22	6	1½	1½		0·1	0·1		(See No. 129.)
			S	3 0 4	9	2½	2		0·1	0·09		
			PS	0 24	9	4	5½		0·2	0·3		
			SR_1	3 16	8	3	2¾		0·2	0·16		
				3·6	8	8	5		0·5	0·3		
			e L	9·0	20							
			M	14·5	16	23	28		0·3	0·4		
			F	4 14								
133	„ 22	I	e (L)	15 36·3	15							
			ME	37 16	10	6			0·2			
			MN	38 5	10		5¾			0·2		
			F	16 12								
134	„ 29	I r	e P	8 8·1								Ep. = 2800 km.
			e S	12·5	6	½	2		0·06	0·2		
			e L	16·7	14							
			ME	20 11	8	6¾			0·4			
			MN	22 53	8		4½			0·2		
			F	9 23								
135	„ 29	I u	e P	13 14·8	3							Ep. = 5100 km.
			i S	21 32	8	3	5		0·2	0·3		
			SR_1	24 38	8	3	2		0·2	0·13		
			SR_2	26 30	8	4	5½		0·2	0·3		
			(e L)	32·3	?							
			M	36·2	15	17	8		0·3	0·1		
			F	14 50								
136	„ 30	I r	(e P)	0 57·0	4		1½			0·3		Ep. = 4600 km.
			(PR_1)	58 42	5	1¾	5		0·2	0·8		
			i (S)	1 3 2	8	3¾	10		0·2	0·6		
			i (SR_1)	6 33	9	6½	7½		0·3	0·4		
				6 44	9	12	12½		0·6	0·6		
			e L	11·3	18							
			M	14·7	14	29	18		0·6	0·3		
			F	1 46								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 8. AUGUST, 1910.

Seismological Bulletin.

ϕ = 33°49′49″ S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal			
76	Aug. 15	I	e	17 16·5								
			MN	23 20	12		2¾			0·07		
			ME	23 43	12	6			0·1			
			F	18 0								
77	„ 16	I_r	e P	7 47·5								Ep. = 1700 km. (?)
			e L	52·7	20							
			MN	56 12	18		10½			0·1		
			ME	57 14	18	14			0·2			
			F	9 0								
78	„ 17	I	e	23 18								
			eL	19·4	24							
			ME	24 7	16	6½			0·1			
			MN	28 47	16		5			0·08		
			F	23 40								
79	„ 18	I	(e)	11 25·8								
			ME	30 12	12	4¾			0·1			
			MN	30 38	10		2			0·08		
			F	11 52								
80	„ 18	I	e	16 50·2								
			e(S)	53·9	7	1½			0·1			
			MN	57 14	16		7			0·1		
			ME	59 28	9	1¼			0·06			
			F	17 20								
81	„ 20	I	e	20 59·0	8	1½			0·1			
				59 16	5	6½	4		1·0	0·6		
			MZ	59 31	5			2			0·3	
			ME	59 58	6	10			1·1			
			MN	21 0 0	6		5½			0·6		
			F	21 10								
82	„ 21	II_r	i P	5 44 8	2·5			4			2·6	Ep. = 3600 km.
				44 17	2·5			62			39·7	
			i(PR_1)	45 45	3			78			34·8	
			i S	49 24	6			13			1·5	Beginning lost on E and N (adjustments).
			(PS)	49 37	6			27			3·0	
			SR_1	51 51	7			20			1·6	
			MN	56 58	12		53			1·4		
			ME	57 4	14	29			0·6			
			MZ	6 2 0	12			17			0·5	
			F	6 53								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 9. SEPTEMBER, 1910.

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^{h}.\ 4^{m}.\ 38^{s}.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal.			
83	Sept. 2	I_n	(e P)	0 55·2								Ep. = 7500 km. (?)
			(e S)	1 4·0								
			(e L)	12·3								
			MN	22 30	18		7			0·08		
			ME	22 34	18	15			0·2			
			F	1 51								
84	„ 2	I	e	14 39·2	4	1½			0·3			
			e L	54·0	26							
			MN	58 14	20		5¾			0·06		
			ME	59 26	18	6			0·07			
			F	15 20								
85	„ 2	I	e	17 8·1								
			MN	16 38	20		5¾			0 06		
			ME	17 6	16	4½			0·07			
			F	17 43								
86	„ 6	I_u	i (P)	20 21 39	5		1¼			0·2		Ep. = 10,000 km (?)
			i	31 7	8		3			0·2		
			e L	53·1								
			ME_1	56 58	20	3¾			0·03			
			MN_1	57 13	20		8½			0·08		
			e	21 14·0	14		2¼			0·04		
			ME_2	21 36	16	2¼			0·04			
			MN_2	23 50	15		4¾			0·08		
			F	21 56								
87	„ 7	III_r	i P	7 16 54								Ep. = 3100 km.
			i S	21 35								
			PS	21 44								
			e L	25·6								
			ME	29 0	12	208			5·8			
			MN	30 0	15		372			6·6		
			MZ	30 50	15			306			5·4	
			F	9 27								
88	„ 8	I	e	5 52·0	24?							
			M	56·2	16	9·4	6·4		0·1	0·1		
			F	6 18								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 9. SEPTEMBER, 1910. (Continued.)

Seismological Bulletin.

ϕ = 33°49′49″S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
89	Sept. 9	I_u	i P	1 26 19	4							Ep. = 9500 km.
			S	36 49	6	8½	7½		1·0	0·8		
			e L	49·2	24							At 3h. 36·3m., some long waves of larger amplitude (M rep. 1 ?)
			MN	58 12	22		37			0·3		
			ME	59 44	24	25			0·2			
			F	3 52								
90	„ 10	II_r	i P	12 32 35	3	2	6		0·8	2·7		Ep. = 2900 km.
			i	33 14	3	2¼	8		1·0	3·5		
			i S	37 3	7	12	4½		1·0	0·4		
			eL	41 4	?							
			MN	43 34	12		21			0·6		
			ME	44 54	10	16			0·6			
			F	13 52								
91	„ 15	I_r	e P	14 2·1								Ep. = 4400 km.
			S	8 14	6	1¾			0·2			
			e L	15·3	20							
			ME	21 10	15	10			0·2			
			MN	22 26	12		6			0·2		
			F	15 20								
92	„ 16	I	e (L)	12 6·0	16							
			MN	10 55	14		2¾			0·05		
			ME	12 20	12	1¼			0·03			
			F	12 40								
3	„ 23	I_r	e (P)	0 52·8								Ep. = 2800 km.
			e (S)	57·2	5		1½			0·2		
			MN	1 0 52	14		12			0·2		
			ME	2 54	14	7¼			0·1			
			F	1 52								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 10. OCTOBER, 1910.

Seismological Bulletin.

ϕ = 33°49′49″S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal.			
94	Oct. 3	I	e (S)	10 59·8	8	4			0·2			
			ME	11 2 35	16	10½			0·1			
			MN	2 47	14		7¼			0·1		
			F	11 27								
95	„ 7	I$_r$	e	7 0·7								Ep. = 2900 km.
			e (L)	9·4	20							
			MN	11 15	12		17			0·4		
			ME	16 36	12	10			0·3			
			F	8 28								
96	„ 7	I	e (P)	11 58·2								
			e	12 3·1	?							
			MN	6 19	15		10			0·2		
			ME	10 20	12	10			0·3			
			F	13 0								
97	„ 8	I	MN	21 6 30	14		6			0·1		
			ME	6 51	12	4½			0·1			
			F	21 31								
98	„ 14	II	e	4 3·9								
			e (L)	10·0	16							
			ME$_1$	12 30	12	4½			0·1			
			MN$_1$	12 55	14		4¼			0·09		
			MN$_2$	21 43	10		3¾			0·1		
			ME	22 23	12	4½			0·1			
			F	4 43								
99	„ 18	I$_r$	e	2 41·7								Ep. = 2100 km.
			e (L)	48·0	20							
			MN	50 43	15		29			0·5		
			MZ	51 13	15			56			1·0	
			ME	52 4	15	46			0·8			
			F	4 7								
100	„ 20	I	e (P)	5 19·7	5	1¾			0·3			
			e	23·4	9	2½			0·1			
			e (L)	29 2	?							
			MN	30 49	14		16			0·3		
			ME	35 37	16	21			0·3			
			F	6 34								
101	„ 24	I$_r$	e P	14 35·4	3	2¼	½		1·0	0·2		Ep. = 3000 km.
			i	35 32	4	3½	½		0·8	0·1		
			i (S)	39 56	8	2½	5		0·1	0·3		
			e L	41·4	20							
			MN	42 58	14		5¾			0·1		
			ME	43 22	15	16			0·3			
			F	15 10								
102	„ 30	I	e (L)	7 48·1	20							
			M	53·1	14	22	32		0·4	0·6		
			F	8 57								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 11. NOVEMBER, 1910.

Seismological Bulletin.

ϕ = 33°49′49″S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal.			
103	Nov. 1	I	e L	20 58·2	16							
			M	21 0 4	10	1	3		0·04	0·1		
			F	21 16								
104	„ 2	I r	e	13 34·5								Ep. = 2000 km. (?)
			e (S)	37·6	8	3¼	3¼		0·2	0·2		
			e (L)	43·0	16							
			MN	45 39	14		7			0·1		
			ME	45 47	14	8			0·2			
			F	14 28								
105	„ 8	I	e	16 58·3								Ep. = 2700 km. (?)
			e S	17 2·6	10		1½			0·06		
			e L	8·7	18							
			ME	8 52	18	56			0·7			
			MN	10 27	15		31			0·5		
			MN_2	11 37	14		25			0·5		
			F	18 24								
106	„ 9	III r	i P	6 7·0	4	8¾	9¼	2½	2·2	2·3	0·6	Ep. = 2800 km.
			i	7·6	6	37	40	67	4·1	4·5	7·4	Near island of Mallicolo (New Hebrides) where strongly felt
				7·9	7			128			10·5	
				9·7	10	108	91	67	4·3	3·6	2·7	
				10·3	10	50	120	134	2·0	4·8	5·4	At 6h. 14m. 44.. displacement of zero-line on both the Wiechert and Mainka seismometers, showing a tilt of ground (towards N.) of approximately 1·5″
			S	11·4	12	280	212	260	7·8	6·0	7·2	
				11·9	12	630	520	260	17·7	14·5	7·2	
				12·7	14	1200	1190	480	24·6	24·3	10·0	
			e L	13·9	20							
			ME	14·3	19	3600			40·0			
			MZ	15·1	18			3200			40·4	
			MN	15·4	17		1780			24·7		
				21·1	14		383	480		8·0	10·0	
				25·1	12		673	191		18·7	5·3	
				41·4	12	168	154	87	4·6	4·3	2·4	
			C	7 1·0	10	74	58	45	3·0	2·3	1·8	
				9 20·8	20	13	8½		0·1	0·08		
			F	10 20								
107	„ 9	I r	e P	9 42·6	4	½			0·1			Ep. = 2700 km.
			i S	46 9	7	1½	3		0·1	0·2		L waves not discernible from those of No. 106, on which P and S are superposed.
108	„ 10	II r	i P	12 25 12	4	7	6½		1·8	1·6		Ep. = 2600 km.
				25 17	4			5			1·2	
			i S	29 26	7	18	15	10	1·5	1·2	0·8	
			PS	29 54	7	29	20		2·4	1·8		
			e L	32·3	20							
			ME	33 23	16	68			1·0			
			MZ	33 38	16			33			0·5	
			MN	34 44	14		42			0·8		
			F	15 10								
109	„ 15	I u	i P	14 34 26	4	¾		12	0·2		3·0	Ep. = 9100 km.
			PR	37 58	9		5¾			0·3		
			i S	44 40	14	20½	17		0·4	0·3		
			(PS)	45 57	14	10	19½		0·2	0·4		
			e L	39·1	24							
			ME	15 4 55	24	32			0·2			
			F	17 0								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 11. NOVEMBER, 1910. (Continued.)

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.\ 4^m.\ 38^s.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
110	Nov. 16	I	e P	12 28·8	3							Ep. = 2700 km.
			e S	33·0	7							
			i	33·9	7		5			0·4		
			e L	36·0	12							
			ME	39 42	10	2			0·1			
			MN	40 7	10		3			0·1		
			F	13 25								
111	„ 24	I v	e P	22 54·6	1	1	1½		1·0	1·5		Ep. = 500 km. (?)
			e	54·7	8							
				55·1	8	10	3		0·6	0·2		At 22h. 54·7m. several waves of relatively long period, with 1 s. waves superposed.
			(e L)	56·1	7							
			M	56·3	5	3½	3		0·6	0·4		
			F	23 12								
112	„ 25	I r	i P	19 9 56	3	1	2		0·4	0·8		Ep. = 2700 km.
			i	10 11	4	4	4½		1·0	1·1		
			i S	14 7	7	2¾	5		0·2	0·4		
			i	14 17	7	17	24		1·4	2·0		
			e L	16·4	20							
			MZ	16·8	20			50			0·5	
			ME	17 31	20	76			0·7			
			MN	17 48	18		31			0·4		
			F	20 25								
113	„ 26	III r	i P	4 46 29	4	14½	18½	6	3·6	4·6	1·5	Ep. = 2400 km.
				46 42	5	25	30	27	4·0	5·0	4·2	
			S	50 18	11	34	36	14	1·1	1·2	0·4	
			i	50 42	11	309	356	143	10·2	11·7	4·7	
			(e L)	52·9	20							
			MZ	54 22	18			442			5·4	(F obscured by No. 114.)
			ME	55 3	14	400			8·2			
			MN	55 31	14		437			8·9		
			i	5 9 26	12			122			3·4	
			C	5 51·0	12	63	34	17½	1·7	0·9	0·5	Ep. = 2400 km.
114	„ „	II r	i P	6 18 14	4	7½	16	1¼	1·9	4·0	0·3	
				18 27	5			12			2·0	(2nd shock of No. 113.)
			S	21 59	8	4¾	5		0·3	0·3		
				22 42	9	56	63		2·7	3·1		
			(e L)	24·1	24							
			ME	26 17	16	125			2·0			
			MZ	26 53	12			35			1·0	
			MN	27 20	14		105			2·1		
			F	8 46								
115	„ 29	I r	i P	11 59 32	4·5	7	7		1·3	1·3		Ep. = 1500 km.
				59 36	4·5	10	9¾		2·0	1·9		
			i (S)	12 2 7	6	4	4		0·4	0·4		
			F	12 27								
116	„ 30	I r	e P	14 44·1								
			i	44 15	4	2	3	1¼	0·5	0·7	0·3	Ep. = 3000 km.
			e S	48·7								
			i	49 5	7	2	4		0·1	0·3		
			e L	51·4	16							
			MN	52 3	12		1			0·03		
			ME	53 10	12	3			0·08			
			F	15 14								

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 12. DECEMBER 1910.

Seismological Bulletin.

ϕ = 33°49′49″S.
λ = 10h. 4m. 38s. E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.) E	A N	A Z	Δg E	Δg N	Δg Z	REMARKS.
				h. m. s.	s.	μ	μ	μ	milligal.			
117	Dec. 1	I_r	e(P)	3 40·6								Ep. = 1300 km. (?)
			e(S)	42·9	7		2½			0·2		
			e L	43·7	22							
			ME	47·1	12	22	11½		0·6	0·3		
			MN									
			MZ	55 7	9			4½			0·2	
			F	4 36								
118	„ 1	II_r	i P	15 50 3	4	3	2¾	3½	0·8	0·7	0·9	Ep. = 4300 km.
			PR	51 38	14	24	18		0·5	0·3		
			S	56·0	16	27	15		0·4	0·2		
			e L	16 0·1	22							
			MN	5·1	12	52	48					
			ME						1·4	1·3		
			MZ	7 57	12			17			0·5	
			F	17 36								
119	„ 2	I_r	e P	3 17·8								Ep. = 2400 km.
			S	21 48	12	7½	4¼		0·2	0·1		
			e(L)	23·1	16							
			ME	28 30	9	6½			0·3			
			MN_1	28 40	10		15			0·6		
			MN_2	31 20	9		12			0·6		
			F	4 40								
120	„ 3	I_r	e P	4 7·6								Ep. = 3100 km.
			i S	12 16	10		4½			0·2		
			e L	15·3	24							
			ME	17 41	16	11½			0·1			
			MZ	18 34	15			14			0·2	
			MN	19 26	14		14			0·3		
			F	4 56								
121	„ 3	II_r	i P	8 0 29	3	1½	9½		0·6	4·2		Ep. = 2700 km.
				0 37	3			11			4·8	
			i S	4 40	10	20	48	11	0·8	1·9	0·4	At commencement (P), several waves of long period (15-20s.) on which short waves (3s.) superposed.
				6 47	10	114	73		4·5	2·9		
			e L	8·6	16							
			MN	10 33	9		60			3·0		
			ME	10 42	9	93			4·6			
			MZ_1	11 7	8			14			0·8	
			MZ_2	16 28	8			20			1·2	
			F	9 56								
122	„ 4	III_r	i P	11 7 40	6	2¾	11½	17	0·3	1·3	1·9	Ep. = 1300 km.
			L	11 34	12	6	24		0·1	0·6		S. doubtful.
			M_1	13·6	12	315	265	87	8·7	7·3	2·4	
			M_2	17 38	9	168	129	18	8·3	6·3	0·9	
			C	46 36	8	29	11		1·8	0·7		
			F	13 19								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 12. DECEMBER 1910. (Contined.)

Seismological Bulletin.

$\phi = 33°49'49''$ S.
$\lambda = 10^h.\ 4^m.\ 38^s.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal			
123	Dec. 10	III r	i P	9 32·1	6	11	21	20	1·2	2·3	2·2	Ep. = 2800 km
				32·6	7	24	33	99	2·0	2·7	8·0	
			S	36·6	9	52	53	44	2·5	2·6	2·2	
			(e L)	39·6	18							
			MN_1	42·9	10		547			21·8		
			MZ	44·7	10			280			11·2	
			ME	45·1	10	737			29·5			
			MN_2	45·7	10		474			18·9		
			C	10 9·7	11	49	100	57	1·6	3·3	1·9	
			F	14 30								
124	„ 11	I r	e P	3 46·3								Ep. = 3300 km.
			S	51 18								
			e L	54·3	15							
			MN	57 18	10		7¼			0·3		
			ME	58 18	10	12			0·4			
			F	4 57								
125	„ 11	I r	e (P)	14 9·4								
			e (S)	13·4								
			e L	17·0	16							
			ME	19 54	14	4¼			0·08			
			MN	20 13	11		3½			0·1		
			F	15 8								
126	„ 11	I r	e	23 51·3								Ep. = 2500 (?) km.
			eL	56·7	16							
			ME	58 54	15	10			0·1			
			MN	59 15	12		6½			0·1		
			F	0 38								
127	„ 13	II u	e P	12 2·8	5	2½			0·4			Ep. = 12,000 km.
			(PR_1)	6 32	8	6			0·4			(Zanzibar.)
			(e S)	15·1	(10)							
			(e L)	23·6	30							Strong microseismic movement all day.
			ME_1	35 55	16	82			1·3			
			MN_1	37 22	16		77			1·2		
			ME_2	43 49	14	104			2·1			
			MZ	43 53	14			72			1·4	
			MN_2	43 59	14		65			1·3		
			ME_3	49·0	14	62			1·2			
			MN_3	49 39	14		45			1·0		
			F	14 33								
128	„ 14	II r	i P	20 51 39	4	21	9¼	23	5·2	2·3	5·8	Ep. = 2400 km.
			i	53 11	5	16	9¼	6	2·6	1·5	1·0	
			S	55 32	6	17	5·6		1·9	0·6		
			i PS	56 7	6	53	13	13	6·0	1·4	1·5	
			i	59 11	9	45	35		2·2	1·7		
			(e L)	21 2·5	?							
			ME	5 11	10	25			1·0			
			MN	5 26	9		19			0·9		
			F	22 21								

(Continued on next sheet.)

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

No. 12. DECEMBER 1910. (Contined.)

Seismological Bulletin.

$\phi = 33°\,49'\,49''$ S.
$\lambda = 10^{h}.\ 4^{m}.\ 38^{s}.$ E.G.
h = 41·9 metres.

(For further details, see inside of cover.)

No.	Date.	Character.	Phase.	Time. (Greenwich Midnight = 0)	Period. (T)	A (Earth-particle.)			Δg			REMARKS.
						E	N	Z	E	N	Z	
				h. m. s.	s.	μ	μ	μ	milligal.			
129	Dec. 16	III u	i P	14 53 11	4	1	2¼	1¼	0·2	0·6	0·3	Ep. = 5500 km.
				53·8	4	7	12	12	1·7	3·1	3·0	(Mindanao)
			PR_1	55·5	5	8¾	16	16	1·4	2·6	2·6	
			S	15 0 14	7	29	17	5	2·3	1·4	0·4	Nos. 130–132 proceed from the same origin.
			SR_1	3 36	8	37	36	27	2·3	2·2	1·7	
				3·8	8	131	113	34	8·2	7·0	2·1	
			(e L)	8·9	?							
			M	15·0	17	650	790	540	9·1	10·9	7·4	
			C	33 53	13	87	91	62	2·0	2·1	1·4	
130	„ 16	I u	ME	23 46 21	16	4¾			0·07			(See No. 129.)
			MN	46 42	20		9			0·09		Beginning lost (changing paper .
			F	0 17								
131	„ 17	I u	(e P)	6 31·0								(See No. 129.)
			MN	51 14	14		3			0·05		
			ME	54 49	12	1½			0·04			
			F	7 9								
132	„ 18	I u	i P	2 53 22	6	1½	1½		0·1	0·1		(See No. 129.)
			S	3 0 4	9	2½	2		0·1	0·09		
			PS	0 24	9	4	5½		0·2	0·3		
			SR_1	3 16	8	3	2¾		0·2	0·16		
				3·6	8	8	5		0·5	0·3		
			e L	9·0	20							
			M	14·5	16	23	28		0·3	0·4		
			F	4 14								
133	„ 22	I	e (L)	15 36·3	15							
			ME	37 16	10	6			0·2			
			MN	38 5	10		5¾			0·2		
			F	16 12								
134	„ 29	I r	e P	8 8·1								Ep. = 2800 km.
			e S	12·5	6	½	2		0·06	0·2		
			e L	16·7	14							
			ME	20 11	8	6¾			0·4			
			MN	22 53	8		4½			0·2		
			F	9 23								
135	„ 29	I u	e P	13 14·8	3							Ep. = 5100 km.
			i S	21 32	8	3	5		0·2	0·3		
			SR_1	24 38	8	3	2		0·2	0·13		
			SR_2	26 30	8	4	5½		0·2	0·3		
			(e L)	32·3	?							
			M	36·2	15	17	8		0·3	0·1		
			F	14 50								
136	„ 30	I r	(e P)	0 57·0	4		1½			0·3		Ep. = 4600 km.
			(PR_1)	58 42	5	1¾	5		0·2	0·8		
			i (S)	1 3 2	8	3¾	10		0·2	0·6		
			i (SR_1)	6 33	9	6½	7½		0·3	0·4		
				6 44	9	12	12½		0·6	0·6		
			e L	11·3	18							
			M	14·7	14	29	18		0·6	0·3		
			F	1 46								