

1911, January.



Riverina College Observatory

SYDNEY, N.S.W.

1911
Jan-Dec.

SEISMOLOGICAL BULLETIN

$\phi =$ S. $\lambda = 151^\circ 9' 30''$ E. $h = 41.9$ m. Foundation: Triassic sandstone.

INSTRUMENTS:

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) (NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

| | V | T ₀ | $\epsilon:1$ | $\frac{r}{T_0^2}$ |
|--------------------|-----|----------------|--------------|-------------------|
| A _N (1) | 206 | 7.6 | 8.3 | 0.022 |
| (3) | 183 | 6.2 | 1.6 | 0.034 |
| A _E (1) | 198 | 6.4 | 5.0 | 0.024 |
| (3) | 135 | 6.0 | 2.9 | 0.039 |
| A _Z (2) | 78 | 3.5 | 2.6 | 0.088 |

| No. | Date. | Phase. | Time (Greenwich) | | | Per. | Amplitude. | | | Δ km. | Remarks. |
|-----|----------------|---------------------|------------------|-------|----|------------------|-------------------------|-------------------------|-------------------------|-----------------|------------------------------|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 1 | 1911 Jan. 2 | e | 10 | 19.8 | | | | | | | |
| | | NN | | 23 04 | 10 | 10 | | | | | |
| 2 | " 2 | F | 10 | 30 | | | | | | | |
| | | e | 11 | 03 33 | 5 | | 1 | | | | |
| | | eL | | 15.4 | 22 | | | | | | |
| | | eL _N | | 22.5 | 20 | | | | | | |
| | | eL _E | | 24.6 | 27 | | | | | | |
| | | ME | | 26 02 | 16 | | 10 | | | | |
| | | NN | | 27 27 | 22 | 35 | | | | | |
| 3 | " 2 | F | 12 | 00 | | | | | | | |
| | | eP | 22 | 53 58 | 4 | | | | 2490 (22°4) | H 22 49 01 | |
| | | iNE | | 54 08 | 8 | +5 $\frac{1}{2}$ | +8 | | | | |
| | | iSNE | | 57 57 | 10 | -25 | -46 | 146 | | | |
| | | MNE | | 58 12 | 10 | 64 | 71 | | | | |
| | | eL | | 59.5 | 20 | | | | | | |
| | | NN1 | 23 | 00 13 | 19 | 156 | | | | | |
| | | NN2 | | 01 10 | 16 | 122 | | | | | |
| | | ME | | 01 31 | 16 | | 116 | | | | F After 24h 28m |
| 4 | " 3 | eE | 03 | 27.1 | 6 | | 1 | | | | |
| | | eE | | 35.3 | 10 | | 2 | | | | |
| | | eE | | 40.6 | 12 | 3 | 3 | | | | |
| | | MNE | | 45.1 | 8 | | 2 | | | | |
| 5 | " 3 | F | 04 | 12 | | | | | | | |
| 6 | " 3 | e | 08 | 24.8 | | | | | | | A few long waves. |
| | | eP | 23 | 39 45 | 3 | | | | | | Destructive in Turkestan. |
| | | eN | | 43 27 | | | | | | | |
| | | ePP _E | | 44 09 | 5 | | | | | | |
| | | eE | | 45 30 | 6 | | | | | | |
| | | e(PPP) | | 46 02 | 6 | | | | | | |
| | | iSESN _E | | 50 18 | 17 | +31 | -31 | | | | |
| | | i(PS) _{NE} | | 52 49 | 15 | -18 | +34 | | | | |
| | | iE | | 53 09 | 6 | | -18 | | | | |
| | | iN | | 53 16 | 8 | +10 | | | | | |
| | | e | 00 | 01 18 | 22 | | | | | | |
| | | iP'P' _{NE} | | 04 26 | 13 | +36 | -63 | | | | |
| | | eL | | 13.5 | 43 | | | | | | |
| | | NN1 | | 16 29 | 39 | 675 | | | | | |
| | | NN2 | | 22 57 | 27 | 450 | | | | | |
| | | ME1 | | 25 35 | 27 | | 350 | | | | |
| | | NN3 | | 26 18 | 23 | 300 | | | | | |
| | | ME2 | | 32 05 | 20 | | 290 | | | | |
| | | e | 01 | 15.2 | 39 | | | | | | |
| | | NN | | 24.5 | 21 | 32 | | | | | |
| | | eL | 21 | 31.5 | 28 | | | | | | |
| | | NN | | 42 30 | 22 | 44 | | | | | |
| | | ME | | 42 55 | 21 | | 40 | | | | F 04 10 |

V₂ (G)

No. 1 (concluded)

1911, January.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date. | Phase. | Time (Greenwich) | | | Per. s. | Amplitude. | | | Δ km. | Remarks. |
|-----|----------------|--------|---------------------|----------|----|------------|----------------|----------------|----------------|-----------------|-------------------------|
| | | | h. | m. | s. | | A_N μ | A_E μ | A_Z μ | | |
| 7 | 1911 Jan. 4 | e | 06 | 41.4 | | | | | | | |
| | | eL | | 44.0 | | | | | | | |
| | | MN | 45 | 29 | 20 | 6 | | | | | |
| 8 | " 7 | ME | 47 | 25 | 12 | | | 3 | | | F 09 15 Compression. |
| | | ipNZ | 02 | 23 06 | 3 | -3 | | | +0.4 | | |
| | | ePP | | 25 00 | 9 | | | | | | |
| | | eS | | 29 32 | 10 | | | | | | |
| | | ine | | 29 48 | 10 | +15 | | -6 | | | |
| | | mNE | | 30 06 | 18 | -63 | | +35 | | | |
| | | e(S)M | | 33 10 | 13 | | | | | | |
| | | MN | | 33 22 | 13 | -22 | | | | | |
| | | eE | | 34 22 | 15 | | | | | | |
| | | eN | | 34 59 | 9 | | | | | | |
| 9 | " 8 | eL | | 36.6 | 26 | | | | | | |
| | | ME | | 40 45 | 18 | | | 122 | | | |
| | | MN1 | | 41 30 | 17 | 73 | | | | | |
| | | MN2 | | 43 15 | 15 | 82 | | | | | |
| | | ME | | 43 45 | 18 | | | | 67 | | F 04 20 |
| | | MN3 | | 46 32 | 13 | 58 | | | | | |
| | | ipE | 09 | 25 51 | 4 | | | | -2 | | |
| | | e(S) | | 30.6 | 25 | | | | | | |
| | | eL | | 32.8 | 16 | 15 | | | | | |
| | | MN | | 34 43 | 16 | | | | | | F 10 20 |
| 10 | " 8 | ME | | 35 02 | 18 | | | 28 | | | |
| | | e | 16 | 22.5 | | | | | | | |
| | | eL | | 25.6 | 20 | | | | | | F 16 50 |
| 11 | " 8 | ME | | 27 23 | 15 | | | 5 | | | |
| | | MN | | 28 46 | 12 | | 2 | | | | |
| | | e | 18 | 33.3 | | | | | | | |
| 12 | " 8 | eL | | 36.5 | 18 | | | | | | |
| | | ME | | 37 48 | 12 | | | 3 | | | F 18 52 |
| | | MN | | 38 18 | 12 | | 2 | | | | |
| | | eP? | 08 | 58 38 | 4 | | | | | | |
| | | ipPNEZ | 9 | 00 00 | 4 | +2 | | -1 | | | |
| | | isNE | | 04 20 | 8 | +5 | | -2 | | | |
| | | ine | | 04 26 | 8 | -17 | | +6 | | | |
| | | issN | | 06 55 | 10 | -15 | | | | | |
| | | mNE | | 07 05 | 10 | +15 | | +20 | | | |
| | | ie | | 08 13 | 8 | | | +8 | | | |
| 13 | " 18 | in | | 10 12 | 10 | +20 | | | | | |
| | | MNE | | 11.5 | 10 | | 45 | | 49 | | |
| | | eL | | 12.0 | 17 | | | | | | |
| | | ME | | 14 34 | 13 | | | | 80 | | |
| | | MNZ | | 15 00 | 13 | | 60 | | | 41 | F 10 25 |
| | | e? | 13 | 39.9 | | | | | | | |
| | | eL | | 45.5 | 15 | | | | | | |
| | | ME | | 47 22 | 12 | | | | 7 | | |
| | | MN | | 49 05 | 15 | | | | | | |
| | | F | | 14 20 | | | | | | | |
| 14 | " 18 | eL | | 17 51.0 | | | | 1 | | | |
| | | MN | | 53 21 | 10 | | | | | | |
| | | ME | | 54 28 | 10 | | | | | | |
| 15 | " 18 | F | Lost in No. 15 | | | | | | | | |
| | | P? | | 17 56 04 | | | | | | | |
| | | e(S) | | 59.6 | | | | | | | |
| 16 | " 26 | eL | | 18 03.6 | | | | | | | |
| | | ME | | 05 46 | 12 | | | | | | |
| | | MN | | 07 26 | 12 | | | 3 | | | |
| 17 | " 26 | e(P) | | 21 06.5 | | | | | | | |
| | | MNE | | 11.1 | 7 | | | | | | |
| 18 | " 26 | F | | 21 35 | | | | | | | |
| | | | | | | | | | | | |

 4100
(36°9) Dilatation.
H 08 51 31

 F 18 30
Nearby shock.

No.

2

 1911 February.
RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

N.B. See January Bulletin for Constants.

| No. | Date. | Phase. | Time | | | Per. | Amplitude. | | | Δ | Remarks. |
|-----|----------------|-----------------|----------------|-------|----|------|----------------|----------------|----------------|---------------------|----------|
| | | | (Greenwich) | | | | A _N | A _E | A _Z | | |
| | | | h. | m. | s. | | | | | | |
| 17 | 1911 Feb. 7 | eP | 09 | 37.9 | | | | | | | |
| | | eL | | 45.9 | 20 | | | | | | |
| | | MN | | 48 00 | 13 | 11 | | | | | |
| | | ME | | 49 23 | 17 | | 6 | | | | |
| | | F | 10 | 40 | | | | | | | |
| 18 | " 7 | eL? | 11 | 41.3 | 16 | | | | | | |
| | | MN | 43 02 | 09 55 | 12 | 3 | | | | | |
| | | ME | | 43 11 | 12 | | 1½ | | | | |
| | | F | 12 | 00 | | | | | | | |
| 19 | " 8 | eL | 09 | 06.9 | 16 | | | | | | |
| | | MN | | 09 55 | 12 | 2 | | | | | |
| | | ME | | 12 37 | 12 | | 1½ | | | | |
| | | F | 09 | 20 | | | | | | | |
| 20 | " 10 | eL | 04 | 01.4 | | | | | | | |
| | | ME | | 02.0 | 14 | | 2 | | | A few long waves. | |
| | | MN | | 05.0 | 12 | 2 | | | | | |
| 21 | " 17 | 1PZ | 10 | 09 45 | 2 | | | -1 | | Dilatation. | |
| | | iN | | 11.1 | 5 | -3 | | | | Deep focus. h 0.06? | |
| | | iSN | | 14.1 | 8 | 9 | | | | | |
| | | i(SS)ME | | 16.7 | 13 | 17 | 3 | | | | |
| | | MN | | 21 48 | 15 | 10 | | | | | |
| | | ME | | 22 23 | 9 | | 2 | | | | |
| | | F | 10 | 40 | | | | | | | |
| 22 | " 17 | e | 23 | 17.5 | 4 | 1 | | | | | |
| | | eL | | 25.77 | 16 | | | | | | |
| | | MN | | 30 18 | 12 | 3 | | | | | |
| | | ME | | 30 44 | 10 | | 3 | | | | |
| | | F | Lost in No. 23 | | | | | | | | |
| 23 | " 17 | e(P)N | 23 | 41.4 | 6 | 1 | | | | | |
| | | eSNE | | 45 36 | 8 | 3 | 2 | | | | |
| | | eL | | 47.1 | 17 | | | | | | |
| | | MN | | 50 52 | 10 | 6 | | | | | |
| | | ME | | 51 41 | 10 | | 10 | | | | |
| | | F | 00 | 25 | | | | | | | |
| 24 | " 18 | ePN | 18 | 54 52 | 2 | | | | | | |
| | | eSKS | 19 | 05 27 | 6 | | | | | | |
| | | eN | | 05 45 | 9 | | | | | | |
| | | eN | | 07 23 | 6 | | | | | | |
| | | i(PKKP) | | 11 27 | 6 | -2 | | | | | |
| | | iN | | 14 29 | 6 | +5 | | | | | |
| | | eN | | 16 21 | | | | | | | |
| | | e(L4) | | 23.3 | 34 | | | | | | |
| | | eN | | 27.8 | 35 | | | | | | |
| | | eLR | | 30.4 | 43 | | | | | | |
| | | ME ₁ | | 32 33 | 39 | | 110 | | | | |
| | | MN ₁ | | 32 52 | 38 | 147 | | | | | |
| | | MN ₂ | | 39 01 | 25 | 47 | | | | | |
| | | ME ₂ | | 43 13 | 23 | | 54 | | | | |
| | | ew2? | 30 | 57.5 | 21 | | | | | | |
| | | MN | | 57 57 | 21 | 3 | | | | | |
| | | ME | | 58 19 | 21 | | 7 | | | | |
| | | F | 21 | 30 | | | | | | | |
| | " 23 | eSN | 11 | 33 04 | 8 | | | | | | |
| | | eL | | 47.6 | 23 | | | | | | |
| | | MN | | 50 40 | 22 | 14 | | | | | |
| | | ME | | 53 28 | 17 | | 9 | | | | |
| | | F | 12 | 40 | | | | | | | |

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

$\phi = 33^\circ 49' 49''$ S.

$\lambda = 151^\circ 9' 30''$ E.

h = 41.9 m.

Foundation: Triassic sandstone.

INSTRUMENTS:

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) (NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

| | V | T ₀ | $\epsilon:1$ | $\frac{r}{T_0^2}$ |
|--------------------|-----|----------------|--------------|-------------------|
| A _N (1) | 206 | 7.6 | 8.3 | 0.022 |
| (3) | 183 | 6.2 | 1.6 | 0.034 |
| A _E (1) | 198 | 6.4 | 5.0 | 0.024 |
| (3) | 135 | 6.0 | 2.9 | 0.039 |
| A _Z (2) | 78 | 3.5 | 2.6 | 0.088 |

| No. | Date. | Phase. | Time (Greenwich) | | | Per. | Amplitude. | | | Δ km. | Remarks. |
|-----------------|----------------|-----------------|------------------|------|-----|------|------------|----------------|----------------|-----------------|--|
| | | | h. | m. | s. | | s. | A_N μ | A_E μ | | |
| 26 | 1911 Mar. 4 | eE | 01 | 12 | 40 | | | | | | |
| | | eL | | 14.6 | | 18 | | | | | |
| | | MN ₁ | | 15 | 40 | | 5 | | | | |
| | | ME | | 16 | 07 | | 12 | | 2 | | |
| | | MN ₂ | | 19 | 31 | | 9 | 2 | | | |
| 27 | " 6 | F | 01 | 30 | | | | | | | |
| | | eP | 17 | 38 | 18 | 4 | | | | | Appearance of record suggests depth greater than normal. h 0.01 |
| | | iPNE | | 38 | 20 | 4 | +2 | -1 | | | |
| | | iPPNE | | 40 | 06 | 4 | -4 | +1 | | | |
| | | iSNE | | 45 | 00 | 4 | -1 | -1 | | | |
| | | ePSN | | 45 | 14 | 12 | | | | | |
| | | iSSN | | 45 | 33 | 4 | | -3 | | | |
| | | iScSN | | 48 | 07 | 4 | -2 | | | | |
| | | eSS | | 48 | 24 | 6 | | | | | |
| | | iE | | 48 | 31 | 4 | | | +4 | | |
| | | iN | | 48 | 36 | 4 | | | | | |
| | | eN | | 48 | 53 | 6 | | | | | |
| | | eSSS | | 49 | 18 | 7 | | | | | |
| | | eL | | 56.8 | | 23 | | | | | |
| | | ME | | 59 | 05 | 16 | | | 7 | | |
| MN | | 59 | 22 | 17 | 6 | | | | | | |
| 28 | " 11 | F | 18 | 50 | | | | | | | |
| | | iPZ | 03 | 21 | 41 | 3 | | | -1 | 3310 (29°8) | Dilatation. H 03 15 35 |
| | | iPN | | 21 | 41 | 6 | +4 | | | | |
| | | iNE | | 22 | 55 | 4 | -4 | +3 | | | |
| | | iN | | 22 | 59 | 6 | -6 | | | | |
| | | iN | | 23 | 37 | 6 | +5 | | | | |
| | | iN | | 23 | 54 | 7 | +9 | | | | |
| | | iPcPN | | 24 | 55 | 4 | +4 | | | | |
| | | iN | | 25 | 07 | 4 | -4 | | | | |
| | | iE | | 25 | 10 | 6 | | -4 | | | |
| | | iNZ | | 25 | 58 | 7 | -7 | | +4 | | |
| | | iSN | | 26 | 34 | 10 | -21 | | | | |
| | | iE | | 26 | 37 | 11 | | +15 | | | |
| | | eN | | 26 | 47 | 23 | | | | | |
| | | MN | | 27 | 18 | 23 | 120 | | | | |
| | | i(SS) | | 28 | 16 | 10 | | +38 | | | |
| | | eL(Q) | | 28.8 | | 25 | | | | | |
| eL(R) | | 30.5 | | 23 | | | | | | | |
| ME ₁ | | 31 | 21 | 21 | | | 150 | | | | |
| ME | | 31 | 49 | 21 | | | | 160 | | | |
| MN ₁ | | 31 | 54 | 22 | 175 | | | | | | |
| ME ₂ | | 33 | 37 | 12 | | | 98 | | | | |
| MN ₂ | | 34 | 50 | 11 | 36 | | | | | | |
| F | | 05 | 10 | | | | | | | | |

(Concluded on next sheet)

No.

3 (concluded)

1911, March.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date. | Phase. | Time (Greenwich) | | | Per. s. | Amplitude. | | | Δ km. | Remarks. |
|-----|-----------------|-----------------|---------------------|------|----|------------|----------------|----------------|----------------|-----------------|----------|
| | | | h. | m. | s. | | A_N μ | A_E μ | A_Z μ | | |
| 29 | 1911 Mar. 13 | e | 08 | 49 | 21 | 12 | | | | | |
| | | eN | | 52 | 15 | | | | | | |
| | | e | | 53 | 51 | 9 | | | | | |
| | | MNE | | 53 | 56 | 9 | 4 | 5 | | | |
| | | eL | | 54 | 39 | 18 | | | | | |
| | | MN | | 54 | 46 | 18 | 9 | | | | |
| | | ME | | 56 | 43 | 13 | | 4 | | | |
| | | F | | 09 | 05 | | | | | | |
| 30 | " 13 | eN | 14 | 38 | 51 | 11 | | | | | |
| | | eN | | 39 | 30 | 6 | | | | | |
| | | iN | | 43 | 28 | 7 | -5 | | | | |
| | | iN | | 43 | 47 | 24 | -88 | | | | |
| | | iE | | 45 | 13 | 6 | | +4 | | | |
| | | iE | | 45 | 44 | 8 | | -7 | | | |
| | | eL | | 47.4 | | 24 | | | | | |
| | | MN ₁ | | 48 | 51 | 21 | 70 | | | | |
| | | ME | | 49 | 40 | 18 | | 46 | | | |
| | | MN ₂ | | 50 | 06 | 18 | 59 | | | | |
| | | F | | 15 | 40 | | | | | | |
| 31 | " 17 | eN | 09 | 27 | 57 | | | | | | |
| | | eL | | 29 | 21 | 15 | | | | | |
| | | MN | | 29 | 59 | 15 | 3 | | | | |
| | | ME | | 33 | 15 | 13 | | 2 | | | |
| | | F | | 09 | 45 | | | | | | |
| 32 | " 22 | e?E | 13 | 15.5 | | | | | | | |
| | | eN | | 18.8 | 19 | | | | | | |
| | | eLE | | 21.2 | 20 | | | | | | |
| | | ME | | 21 | 55 | 20 | | 11 | | | |
| | | MN | | 23 | 38 | 13 | 6 | | | | |
| | | F | | 14 | 40 | | | | | | |
| 33 | " 27 | eN | 09 | 54.2 | 8 | | | | | | |
| | | eL | | 57.7 | 18 | | | | | | |
| | | ME ₁ | | 58 | 50 | 17 | | 15 | | | |
| | | MN | 10 | 01 | 34 | 14 | 15 | | | | |
| | | ME ₂ | | 01 | 38 | 12 | | 11 | | | |
| | | F | | 10 | 30 | | | | | | |
| 34 | " 31 | eN | 22 | 16.7 | | | | | | | |
| | | e | | 19.9 | 15 | | | | | | |
| | | eL | | 21.9 | 16 | | | | | | |
| | | ME | | 23 | 24 | 12 | | 12 | | | |
| | | MN | | 23 | 35 | 13 | 12 | | | | |
| | | F | | 23 | 50 | | | | | | |

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

$\phi = 33^\circ 49' 49''$ S. $\lambda = 151^\circ 9' 30''$ E. $h = 41.9$ m. Foundation: Triassic sandstone.

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| | V | T ₀ | $\epsilon:1$ | $\frac{r}{T_0^2}$ |
|--------------------|-----|----------------|--------------|-------------------|
| A _N (1) | 206 | 7.6 | 2.3 | 0.022 |
| A _N (3) | 183 | 6.2 | 1.6 | 0.034 |
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| No. | Date. | Phase. | Time | | Per. | Amplitude. | | | Δ | Remarks. | |
|-----|-----------------|--------|-------------|------|------|----------------|----------------|----------------|----------|----------------|----------------------|
| | | | (Greenwich) | | | A _N | A _E | A _Z | | | |
| | | | h. | m. | s. | μ | μ | μ | km. | | |
| 35 | 1911 April 1 | iPNE | 02 | 08 | 15 | 4 | +3 | +6 | | 3470 (31.2) | h 0.08 H 02 02 39 |
| | | iE | | 08 | 40 | 2 | | +5 | | | |
| | | ipPE | | 09 | 47 | 6 | | +4 | | | |
| | | iSN | | 12 | 44 | 6 | -4 | | | | |
| | | eL | | 15 | 44 | 16 | | | | | |
| | | ME | | 16 | 04 | 16 | | | 14 | | |
| | | MN | | 17 | 34 | 16 | 6 | | | | |
| | | iScSNE | | 17 | 46 | 5 | +11 | +6 | | | |
| 36 | " 2 | F | 02 | 40 | | | | | | | |
| | | e | 07 | 04.6 | | | | | | | |
| | | eL | | 08.4 | 23 | | | | | | |
| | | ME | | 10 | 20 | 16 | | | 7 | | |
| 37 | " 3 | MN | | 10 | 39 | 20 | 10 | | | | |
| | | F | 07 | 30 | | | | | | | |
| | | iPN | 01 | 15 | 09 | 2 | -1 | | | | |
| | | iE | | 15 | 35 | 4 | +2 | | | | |
| 38 | " 4 | iE | | 17 | 30 | 4 | | | -2 | | No surface waves. |
| | | F | 01 | 35 | | | | | | | |
| | | e?E | 17 | 55.8 | | | | | | | |
| | | eN | | 56.2 | 6 | | | | | | |
| 39 | " 6 | eL | 18 | 12.8 | 19 | | | | | | |
| | | MNE | | 14.8 | 18 | 3 | | 8 | | | |
| | | F | 18 | 40 | | | | | | | |
| | | e(S)N | 09 | 52 | 55 | 8 | | | | | |
| 40 | " 7 | eL | | 58.0 | 21 | | | | | | |
| | | ME | | 58 | 34 | 21 | | | 15 | | |
| | | MN | 10 | 00 | 03 | 14 | 6 | | | | |
| | | F | 10 | 30 | | | | | | | |
| 41 | " 8 | eN | 07 | 07 | 22 | | | | | | |
| | | iN | | 07 | 42 | 6 | +2 | | | | |
| | | eN | | 13 | 40 | 21 | | | | | |
| | | eL | | 25 | 30 | 31 | | | | | |
| | | ME | | 30 | 35 | 17 | | | 13 | | |
| | | MN | | 30 | 52 | 21 | 14 | | | | |
| 41 | " 8 | F | 07 | 45 | | | | | | | |
| | | eE | 02 | 08 | 17 | | | | | | |
| | | iE | | 12 | 24 | 7 | | | -6 | | |
| | | iN | | 12 | 26 | 6 | +6 | | | | |
| | | MN | | 12 | 32 | 6 | 10 | | | | |
| | | eL | | 13.7 | 20 | | | | | | |
| 41 | " 8 | ME | | 13 | 56 | 20 | | | 19 | | |
| | | MN | | 14 | 32 | 18 | 5 | | | | |
| | | F | 02 | 130 | | | | | | | |

(Continued on next sheet)

No. 4 (continued)

1911, April.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date. | Phase. | Time (Greenwich) | | | Per. s. | Amplitude. | | | Δ km. | Remarks. |
|-----|------------------|--|---------------------|------|----|------------|---------------------|---------------------|---------------------|----------|--|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 42 | 1911 April 10 | e(PP) | 19 | 04 | 42 | | | | | | |
| | | iE | | 04 | 51 | 5 | | +5 | | | |
| | | iNE | | 05 | 15 | 5 | +2 | -7 | | | |
| | | eN | | 08 | 15 | 6 | | | | | |
| | | i(SS)N | | 21 | 33 | 14 | +7 | | | | |
| | | eL | | 47.3 | | 21 | | | | | |
| | | ME | | 48 | 00 | 21 | | | 5 | | |
| 43 | " 11 | F | 20 | 00 | | | | | | | |
| | | iE | 13 | 35 | 11 | 4 | | -2 | | | |
| | | eN | | 35 | 56 | 5 | | | | | |
| | | iE | | 36 | 06 | 6 | | +4 | | | |
| | | eN | | 36 | 49 | 5 | | | | | |
| | | eE | | 39 | 38 | 18 | | | | | |
| | | iE | | 40 | 04 | 10 | | +8 | | | |
| | | eL | | 41.9 | | 28 | | | | | |
| | | ME ₁ | | 42 | 40 | 28 | | | 75 | | |
| 44 | " 15 | MN ₁ | | 43 | 05 | 15 | 21 | | | | |
| | | MN ₂ | | 44 | 13 | 18 | 15 | | | | |
| | | ME ₂ | | 44 | 24 | 19 | | | 55 | | |
| | | F | 14 | 50 | | | | | | | |
| | | eN | 05 | 00 | 00 | 5 | | | | | |
| | | e ^{TE} E | | 02 | 30 | 4 | | | | | |
| | | eE | | 04 | 14 | 6 | | | | | |
| 45 | " 18 | eL | | 05.5 | | 18 | | | | | |
| | | MNE | | 06 | 13 | 17 | 16 | 35 | | | |
| | | F | 06 | 05 | | | | | | | |
| | | e(PP)?N | 18 | (33) | 36 | 2 | | | | | Minutes uncertain. |
| | | e(PS)N | | (45) | 08 | 6 | | | | | |
| | | eLQN | | (59) | | 58 | | | | | |
| | | MN ₁ | 19 | (03) | .1 | 50 | 30 | | | | |
| 46 | " 21 | eLR | | (05) | .6 | 28 | | | | | |
| | | ME ₁ | | (07) | 55 | 25 | | 23 | | | |
| | | MN ₂ | | (08) | 48 | 21 | 16 | | | | |
| | | ME ₂ | | (12) | 06 | 21 | | 39 | | | |
| | | MN ₃ | | (13) | 45 | 21 | 19 | | | | |
| | | F | 19 | (50) | | | | | | | |
| 47 | " 23 | eN | 02 | 20 | 57 | 12 | | | | | |
| | | iNE | | 21 | 01 | 12 | -11 | +10 | | | Earlier phases indistinguishable because of large microseisms. |
| | | eL | | 28.9 | | 27 | | | | | |
| | | eN | | 30 | 42 | 21 | 19 | | | | |
| | | ME | | 31 | 03 | 22 | | | 32 | | |
| 48 | " 26 | F | 03 | 10 | | | | | | | |
| | | About 13h small earthquake. No hour marks. | | | | | | | | | |
| 48 | " 26 | ME | | | | 15 | | 9 | | | |
| | | MNE | | | | 11 | 9 | 11 | | | |
| | | eN | 01 | 23 | 16 | | | | | | |
| | | eL | | 26.2 | | 17 | | | | | |
| 49 | " 28 | MN | | 26 | 47 | 15 | 4 | | | | |
| | | ME | | 27 | 47 | 17 | | | 13 | | |
| | | F | 01 | 45 | | | | | | | |
| | | e(PP)?E | 10 | 12 | 35 | 4 | | | | | |
| | | i?E | | 17 | 35 | 5 | | -2 | | | |
| 49 | " 28 | eE | | 26 | 02 | 17 | | | | | |
| | | e | | 27 | 39 | 19 | | | | | |
| | | MNE | | 28 | 03 | 19 | 13 | 19 | | | |
| | | eE | | 30 | 53 | 19 | | | | | |
| | | MN | | 31 | 22 | 19 | 15 | | | | |
| | | ME | | 31 | 39 | 19 | | | 17 | | |
| | | eLN | | 42 | 00 | 30 | | | | | |
| F | 11 | 30 | | | | | | | | | |

(Concluded on next sheet)

No. 4 (concluded), 5. 1911, April, May.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date. | Phase. | Time (Greenwich) | | | Per. | Amplitude. | | | Δ km. | Remarks. |
|------|-----------------|--------------------|---------------------|-------|----|------|---------------------|---------------------|---|--|----------|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 50 | 1911 Apr. 28 | iP _{NE} Z | 18 | 40 | 17 | 4 | | +2 | -2 | Dilatation. On N periods of 1 & 1 1/2 s. h 0.10 | |
| | | iE _Z | 40 | 52 | | 4 | 7/8 | +4 | -4 | | |
| | | eE | 43 | 19 | | 5 | | | | | |
| | | iS _N | 43 | 55 | | 4 | -11 | | | | |
| | | iNE | 44 | 13 | | 5 | -13 | -6 | | | |
| | | MNE | 44 | 17 | | 5 | 24 | 8 | | | |
| | | eN | 44 | 30 | | 7 | | | | | |
| | | eLN | 47.0 | | | 15 | | | | | |
| | | MN | 47 | 34 | | 15 | 21 | | | | |
| | | iScSE | 49 | 59 | | 5 | +6 | +8 | | | |
| | | iE | 50 | 20 | | 5 | | +6 | | | |
| | | ME | 53 | 38 | | 11 | | 4 | | | |
| | | MN | 53 | 53 | | 12 | 5 | | | | |
| | | F | 19 | 30 | | | | | | | |
| 51 | May 3 | e | 17 | 16.9 | | 3 | | | | | |
| | | e | 20 | 04 | | 7 | | | | | |
| | | eL | 23.6 | | | 16 | | | | | |
| | | MN | 24 | 06 | | 16 | 11 | | | | |
| | | ME | 24 | 17 | | 14 | | 11 | | | |
| 52 | " 4 | F | 18 | 00 | | | | | Time marks missing. | | |
| | | e | 13 | xx+Om | | 4 | | | | | |
| | | iNE | | +7.2 | | 8 | -3 | -3 | | | |
| | | e | | +11.7 | | 11 | | | | | |
| | | eLN | | +17.2 | | 25 | | | | | |
| | | MN1 | | +17.7 | | 25 | 36 | | | | |
| | | eLSE | | +17.9 | | 29 | | | | | |
| | | ME | | +20.5 | | 24 | | 47 | | | |
| 52a | " 4 | F | | +90 | | | | | About 15h 16m small nearby shock, not measured (no time marks). | | |
| | | | | | | | | | | | |
| 53 | " 4 | iPN | 23 | 49 | 22 | 6 | +3 | | 9520 | h 0.02 | |
| | | ipPNE | 49 | 56 | | 9 | +16 | +2 | (85:7) | H 23 37 00 | |
| | | iN | 52 | 13 | | 8 | +4 | | | | |
| | | eN | 54 | 09 | | 11 | | | | | |
| | | iN | 55 | 05 | | 9 | +7 | | | | |
| | | iN | 56 | 03 | | 7 | +5 | | | | |
| | | eE | 56 | 42 | | 10 | | | | | |
| | | iSKSN | 59 | 26 | | 9 | -14 | | | | |
| | | MN | 59 | 36 | | 9 | 33 | | | | |
| | | iSE | 59 | 39 | | 8 | | +19 | | | |
| | | ME | 59 | 47 | | 8 | | 49 | | | |
| | | iScSE | 59 | 51 | | 5 | | -16 | | | |
| | | eN | 00 | 00 | 24 | 22 | | | | | |
| | | MN | 00 | 57 | | 22 | 110 | | | | |
| | | iN | 05 | 06 | | 13 | +27 | | | | |
| | | iSE | 05 | 21 | | 13 | | -33 | | | |
| | | iN | 05 | 30 | | 13 | -32 | | | | |
| | | i(PKMN) | 06 | 22 | | 13 | +32 | | | | |
| | | eSSSE | 09 | 05 | | 14 | | | | | |
| | | ME | 09 | 16 | | 14 | | 24 | | | |
| eE | 12 | 09 | | 18 | | | | | | | |
| eLSE | 13.3 | | | 26 | | | | | | | |
| ME1 | 13 | 40 | | 26 | | 123 | | | | | |
| ME2 | 16 | 09 | | 15 | | 27 | | | | | |
| MN1 | 17 | 28 | | 15 | 21 | | | | | | |
| MN2 | 24 | 36 | | 18 | 23 | | | | | | |
| ME | 01 | 37 | 33 | 21 | | 8 | | | | | |
| F | 02 | 10 | | | | | | | | | |

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No. 5 (concluded), 6. 1911, May, June.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date. | Phase. | Time (Greenwich) | | | Per. s. | Amplitude. | | | Δ km. | Remarks. |
|-----------------|------------------|-----------------|---------------------|------|----------------|------------|---------------------|---------------------|---------------------|---|----------|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 54 | 1911 May 11 | e | 04 | 16 | 45 | 9 | | | | Probably earlier. Microseisms fairly large. | |
| | | iNE | | 19 | 45 | 5 | -4 | -4 | | | |
| | | e | | 24 | 50 | 17 | | | | | |
| | | eL | | 26.7 | | 25 | | | | | |
| | | MN | | 27 | 03 | 23 | 22 | | | | |
| | | ME ₁ | | 28 | 30 | 22 | | 23 | | | |
| 55 | " 13 | ME ₂ | | 30 | 33 | 18 | | 26 | | | |
| | | F | 05 | 00 | | | | | | | |
| | | e? | 23 | 39 | 57 | | | | | | |
| | | iN | | 43 | 30 | 5 | +4 | | | | |
| | | eL | | 46.7 | | 12 | | | | | |
| | | MN | | 47 | 21 | 12 | 3 | | | | |
| 56 | " 14 | F | 00 | 05 | | | | | | | |
| | | " 22 | eL | 11 | 22.8 | 18 | | | | | |
| | | | MN | | 24 | 45 | 15 | 5 | | | |
| 57 | June 2 | ME | | 25 | 41 | 16 | | 6 | | | |
| | | F | 11 | 50 | | | | | | | |
| | | e? | 04 | 49 | 15 | | | | | | |
| 58 | " 2 | MN | | 52 | 42 | 5 | 4 | | | | |
| | | ME | | 53 | 49 | 6 | | 2 | | | |
| | | F | 05 | 05 | | | | | | | |
| 59 | " 3 | e | 06 | 15.5 | 7 | | | | | | |
| | | eL | | 18.4 | 14 | | | | | | |
| | | MN | | 19 | 04 | 14 | 2 | | | | |
| 60 | " 5 | F | 06 | 30 | | | | | | | |
| | | eP | 20 | 26 | 11 | | | | | | |
| | | iNE | | 26 | 23 | 4 | -8 | -8 | | | |
| | | iNE | | 26 | 28 | 3 | -11 | -13 | | | |
| | | mZ | | 26 | 36 | 3 | | | 2 | | |
| | | iSN | | 30 | 21 | 10 | +40 | | | | |
| | | iE | | 30 | 24 | 9 | | -50 | | | |
| | | iE | | 30 | 38 | 8 | | -26 | | | |
| | | iN | | 30 | 41 | 10 | -24 | | | | |
| | | iN | | 30 | 56 | 6 | -11 | | | | |
| | | iN | | 31 | 34 | 6 | -18 | | | | |
| | | iE | | 31 | 39 | 4 | | -8 | | | |
| | | iE | | 32 | 00 | 7 | | -14 | | | |
| | | iN | | 32 | 16 | 6 | +13 | | | | |
| | | eL | | 32.5 | | 20 | | | | | |
| | | mZ | | 32 | 34 | 18 | | | 67 | | |
| ME ₁ | | 32 | 47 | 20 | | 146 | | | | | |
| MN ₁ | | 34 | 46 | 11 | 42 | | | | | | |
| F | 22 | 00 | | | | | | | | | |
| iPNE | 03 | 04 | 35 | 4 | +1 | +1 | | | | | |
| MNE | | 04 | 44 | 4 | 2 | 1 | | | | | |
| iE | 05 ^{cc} | 08 | 41 | 6 | | -2 | | | | | |
| iSN | | 08 | 41 | 8 | +2 | | | | | | |
| iE | | 08 | 45 | 7 | | -3 | | | | | |
| MN | | 08 | 53 | 8 | 3 | | | | | | |
| ME | | 09 | 03 | 7 | | 3 | | | | | |
| e | | 09 | 33 | 10 | | | | | | | |
| eL | | 13.5 | | 17 | | | | | | | |
| MN | | 13 | 44 | 15 | 4 ₁ | | | | | | |
| ME | | 14 | 33 | 14 | | 4 | | | | | |
| 61 | " 6 | F | 03 | 50 | | | | | | | |
| | | eN | 12 | 53 | 38 | | | | | | |
| | | iE | | 53 | 41 | 5 | -1 | | | | |
| ME | | 59.5 | | 14 | | 2 | | | | | |
| F | 13 | 10 | | | | | | | | | |

(Continued on next sheet)

No. 6 (continued)

1911, June.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date. | Phase. | Time | | | Per. | Amplitude. | | | Δ | Remarks. |
|--------------------|----------------|-----------------------------------|-------------|------|----|------|------------|------|-----|--------|----------|
| | | | (Greenwich) | | | | μ | μ | μ | | |
| | | | h. | m. | s. | | | | | | |
| 62 | 1911 June 7 | e?E | 11 | 22 | 07 | 8 | | | | | |
| | | eE | | 22 | 46 | 4 | | | | | |
| | | eE | | 25 | 02 | 9 | | | | | |
| | | iE | | 26 | 12 | 10 | | | +8 | | |
| | | e(SKS) | | 28 | 06 | 6 | | | | | |
| | | i(SKS)NE | | 28 | 12 | 6 | +3 | +4 | | | |
| | | i(SKKS)E | | 29 | 26 | 11 | | | -14 | | |
| | | iPS _E | | 32 | 07 | 20 | | | -89 | | |
| | | iE | | 33 | 59 | 19 | | | +46 | | |
| | | iN | | 38 | 06 | 11 | +9 | | | | |
| | | eSS _E | | 38.4 | | 32 | | | | | |
| | | ME | | 39 | 02 | 32 | | | 120 | | |
| | | eE | | 46 | 52 | 10 | | | | | |
| | | iLQ _N | | 50 | 12 | 31 | -170 | | | | |
| | | eLRE | | 55.2 | | 31 | | | | | |
| | | ME ₁ | | 56 | 00 | 30 | | | 170 | | |
| | | MN ₁ | | 56 | 44 | 25 | 56 | | | | |
| | | ME ₂ , ME ₂ | | 57.4 | | 23 | | | 165 | 82 | |
| | | ME ₂ | 12 | 04 | 14 | 17 | 40 | | | | |
| | | ME ₃ | | 10 | 52 | 16 | | | 66 | | |
| | | ME ₃ | | 14 | 17 | 15 | 37 | | | | |
| | | eW ₂ E | 13 | 08.0 | | 30 | | | | | |
| | | ME ₄ | | 08 | 19 | 30 | | | 54 | | |
| | | MN ₄ | | 16 | 40 | 23 | 40 | | | | |
| | | ME ₅ | | 20 | 13 | 22 | | | 40 | | |
| | | F | 14 | 45 | | | | | | | |
| | | 63 | " 15 | iPNE | 14 | 36 | 30 | 9 | -8 | +12 | |
| iPZ | | | | 36 | 30 | 4 | | | +4 | (6673) | h 0.02 |
| iNE | | | | 36 | 34 | 9 | +27 | -10 | | | |
| iZ | | | | 36 | 34 | 4 | | | -17 | | |
| iN | | | | 36 | 42 | 9 | -27 | | | | |
| iZ | | | | 36 | 42 | 4 | | | +9 | | |
| iPNE | | | | 37 | 01 | 11 | +47 | -24 | | | |
| MNE | | | | 37 | 12 | 11 | -82 | +38 | | | |
| MZ | | | | 37 | 14 | 6 | | | -68 | | |
| iSN | | | | 45 | 05 | 11 | +83 | | | | |
| MN | | | | 45 | 13 | 11 | -450 | | | | |
| iN | | | | 45 | 34 | 11 | -260 | | | | |
| iSS _E | | | | 46 | 04 | 9 | | +106 | | | |
| ME | | | | 46 | 11 | 9 | | -172 | | | |
| MN | | | | 46 | 13 | 11 | -460 | | | | |
| iSS _N | | | | 49 | 12 | 13 | -105 | | | | |
| eL _E | | | | 54.7 | | 40 | | | | | |
| MN ₁ | | | | 59 | 09 | 17 | 460 | | | | |
| ME ₁ | 15 | | | 02 | 20 | 20 | | | 410 | | |
| MZ | | | | 03 | 02 | 19 | | | | 260 | |
| MN ₂ | | | | 04 | 52 | 17 | 287 | | | | |
| iP'P'Z | | | | 05 | 12 | 4 | | | | -19 | |
| MZ | | | | 05 | 17 | 4 | | | | 27 | |
| eN | | | | 44.7 | | 65 | | | | | |
| MN ₃ | | | | 45 | 12 | 65 | 390 | | | | |
| eE | 16 | | | 22.2 | | 30 | | | | | |
| ME ₂ | | | | 22 | 40 | 30 | | | 54 | | |
| eLQ ₂ N | | | | 26.2 | | 40 | | | | | |
| MN ₄ | | | | 26 | 51 | 40 | 81 | | | | |
| eN | | | | 29 | | 65 | | | | | |
| MN ₅ | | | | 30.3 | | 65 | 178 | | | | |
| eE | | | | 36.4 | | 28 | | | | | |
| ME ₃ | | 37 | 15 | 28 | | | 38 | | | | |
| MN ₆ | | 55 | 08 | 27 | 30 | | | | | | |
| ME ₄ | | 56 | 28 | 19 | | | 13 | | | | |
| eN | 17 | 44 | | 55 | | | | | | | |
| MN ₇ | | 46.3 | | 55 | 51 | | | | | | |

Periods of 3 & 4 sec.
on the Vertical and
3 & 6 sec. on N & E
components are super-
imposed on the long
waves until 15h 10m.

No. 6 (concluded)

1911, June.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date. | Phase. | Time (Greenwich) | | | Per. s. | Amplitude. | | | Δ km. | Remarks. | |
|------|-----------------|------------------|---------------------|-----------------|----|------------|----------------|----------------|----------------|-----------------|------------------------|--|
| | | | h. | m. | s. | | A_N μ | A_E μ | A_Z μ | | | |
| 64 | 1911 June 17 | e ⁷ E | 05 | 21.8 | 3 | | | | | | | |
| | | eE | | 22 36 | | | | | | | | |
| | | i(3)N | | 30 00 | 5 | -1 | | | | | | |
| | | iNE | | 30 12 | 5 | +4 | -4 | | | | | |
| | | eL | | 45.5 | 28 | | | | | | | |
| | | MN1 | | 47 07 | 24 | 9 | | | | | | |
| | | MN2 | | 48 17 | 21 | 14 | | | | | | |
| | | ME | | 48 46 | 20 | | | 19 | | | | |
| | | F | | 06 05 | | | | | | | | |
| 65 | " 20 | eLN | 04 | 02.3 | 15 | | | | | | | |
| | | MN | | 03 42 | 12 | 8 | | | | | | |
| | | ME | | 06 16 | 16 | | 11 | | | | | |
| 66 | " 22 | F | 04 | 20 | | | | | | | | |
| | | e | 19 | 57 28 | 7 | | | | | | | |
| | | eLE | 20 | 04.1 | 19 | | | | | | | |
| 67 | " 24 | MN | | 04 18 | 18 | 6 | | | | | | |
| | | ME | | 07 16 | 18 | | 15 | | | | | |
| | | F | 20 | 25 | | | | | | | | |
| 67a | " 27 | iE | 15 | 47 31 | 7 | | | +2 | | | | |
| | | eLN | | 50.3 | 16 | | | | | | | |
| | | MN | | 51 15 | 16 | 6 | | | | | | |
| 68 | " 28 | ME | | 54 16 | 11 | | | 6 | | | | |
| | | F | 16 | 10 | | | | | | | | |
| | | eL | 01 | 11.6 | 13 | | | | | | | |
| 69 | " 28 | ME | | 12 30 | 12 | | | 3 | | | | |
| | | F | 01 | 20 | | | | | | | | |
| | | eFN | 07 | 21 55 | 4 | | | | | | Same origin as No. 69. | |
| | | eFFN | | 22 49 | 5 | | | | | | H 07 15 59 | |
| | | eSE | | 26.6 | 9 | | | | | | | |
| | | eN | | 26.8 | 18 | | | | | | | |
| | | eE | | 29 20 | 12 | | | | | | | |
| | | iE | | 29 47 | 8 | | | -10 | | | | |
| | | eLN | | 29.9 | 33 | | | | | | | |
| | | MEX | | 32.1 | | | | | | | | |
| | | iE | | 31 40 | 12 | | | +16 | | | | |
| | | ME | | 32.1 | 16 | | | 20 | | | | |
| MN | | 32 16 | 16 | 14 | | | | | | | | |
| F | 08 | 00 | | | | | | | | | | |
| eFN | 19 | 59 33 | 4 | | | | | 3190 | H 19 53 37 | | | |
| iN | | 59 37 | 7 | +4 | | | | (28°7) | | | | |
| iFFN | 20 | 00 30 | 5 | -5 | | | | | | | | |
| iSE | | 04 18 | 5 | | | +7 | | | | | | |
| eSN | | 04.3 | 17 | | | | | | | | | |
| iE | | 04 39 | 12 | | | -28 | | | | | | |
| MN | | 04 51 | 17 | 46 | | | | | | | | |
| iE | | 06 44 | 6 | | | -17 | | | | | | |
| eLE | | 06.0 | 28 | | | | | | | | | |
| eLN | | 07.3 | 32 | | | | | | | | | |
| MN | | 07 54 | 32 | 310 | | | | | | | | |
| ME1 | | 08.0 | 16 | | | 77 | | | | | | |
| iE | | 08 53 | 12 | | | -70 | | | | | | |
| ME2 | | 09 25 | 12 | | | 109 | | | | | | |
| F | 21 | 20 | | | | | | | | | | |

Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN

$\phi = 33^\circ 49' 49''$ S. $\lambda = 151^\circ 9' 30''$ E. $h = 41.9$ m. Foundation: Triassic sandstone.

INSTRUMENTS:

1. Wiechert Astatic Pendulum Seismometer (1000 kilo.) (NS, EW)
2. Wiechert Vertical Seismometer (80 kilo.)
3. Mainka Conical Pendulum Seismometer (450 kilo.) (NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

| | V | T ₀ | $\epsilon:1$ | $\frac{r}{T_0^2}$ |
|--------------------|-----|----------------|--------------|-------------------|
| A _N (1) | 199 | 7.8 | 13.0 | 0.028 |
| A _N (3) | 183 | 6.2 | 1.6 | 0.034 |
| A _E (1) | 195 | 6.5 | 4.5 | 0.024 |
| A _E (3) | 135 | 6.0 | 2.9 | 0.039 |
| A _Z (2) | 78 | 3.5 | 2.6 | 0.088 |

| No. | Date. | Phase. | Time (Greenwich) | | | Per. | Amplitude. | | | Δ km. | Remarks. |
|--------|----------------|--------|------------------|------|----|------|-------------------------|-------------------------|-------------------------|-----------------|----------|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 70 | 1911 July 3 | e?N | 18 | 53 | 24 | | | | | | |
| | | en | | 55 | 11 | | | | | | |
| | | eLN | | 59.6 | | 14 | | | | | |
| | | eLg | 19 | 00.8 | | 19 | | | | | |
| | | NE | | 01 | 45 | 19 | | | 8 | | |
| | | MN | | 02 | 20 | 14 | 5 | | | | |
| 71 | " 3 | F | 19 | 50 | | | | | | | |
| | | eN | 21 | 52.3 | | | | | | | |
| | | epP | | 53 | 58 | | | | | | h 0.10 |
| | | iSNE | | 57 | 33 | 4 | -7 | -9 | | | |
| | | MNE | | 57 | 37 | 4 | +13 | +22 | | | |
| | | i(ss) | 22 | 01 | 04 | 6 | -8 | | | | |
| | | i(ss) | | 01 | 07 | 6 | | -10 | | | |
| | | iN | | 04 | 26 | 6 | +5 | | | | |
| | | iNE | | 06 | 58 | 6 | +8 | -4 | | | |
| | | MNE | | 07 | 05 | 6 | 6 | 8 | | | |
| | | MN | | 10 | 43 | 13 | 7 | | | | |
| | | 72 | " 4 | ME | | 13 | 02 | 8 | | 3 | |
| F | 22 | | | 45 | | | | | | | |
| e?E | 13 | | | 48 | 02 | 6 | | | | | |
| e(PP) | | | | 51 | 07 | 6 | | | | | |
| eE | | | | 54 | 04 | 7 | | | | | |
| eE | | | | 58 | 19 | 7 | | | | | |
| iE | | | | 59 | 15 | 7 | | +4 | | | |
| iE | | | | 59 | 17 | 7 | +4 | | | | |
| i(PS) | 14 | | | 00 | 06 | 7 | | -5 | | | |
| iNE | | | | 00 | 41 | 9 | +7 | -11 | | | |
| eE | | | | 01 | 07 | 9 | | | | | |
| iE | | | | 01 | 39 | 7 | | -5 | | | |
| eE | | | | 04 | 10 | 8 | | | | | |
| iE | | | | 05 | 00 | 12 | | -14 | | | |
| e(ss) | | | | 05 | 47 | 14 | | | | | |
| ME | | | | 06 | 26 | 14 | | 21 | | | |
| e(sss) | | | | 10 | 00 | 16 | | | | | |
| en | | | | 15.7 | | 26 | | | | | |
| eLN | | | | 19.2 | | 31 | | | | | |
| MN1 | | | | 20 | 28 | 31 | 40 | | | | |
| eLg | | 23.1 | | 46 | | | | | | | |
| ME1 | | 26 | 09 | 30 | | | 54 | | | | |
| ME2 | | 29 | 40 | 24 | | | 34 | | | | |
| MN2 | | 32 | 22 | 28 | 20 | | | | | | |
| MN3 | | 36 | 31 | 20 | 10 | | | | | | |
| F | | 15 | 15 | | | | | | | | |

(Continued on next sheet)

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|--------|----------------|--------|---------------------|----|------|------------|---------------------|---------------------|---------------------|----------|--------------------|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 73 | 1911 July 5 | iNE | 02 | 45 | 53 | 5 | +2 | +1 | | | |
| | | mNE | 46 | 04 | | 5 | 4 | 3 | | | |
| | | iNE | 48 | 15 | | 5 | -4 | -3 | | | |
| | | iN | 48 45 | 49 | 50 | 5 | -6 | -7 | | | |
| | | iE | 50 | 25 | | 4 | | +4 | | | |
| | | ME | 52 | 13 | | 6 | | 17 | | | |
| 74 | " 5 | MN | 53 | 02 | | 7 | 18 | | | | F 03 30 |
| | | iPNE | 18 | 47 | 20 | 26 | +1 | -2 | | | |
| | | ePP | 48 | 21 | | 6 | | | | | |
| | | i(PP) | 49 | 22 | | 3 | | -3 | | | |
| | | iSNE | 53 | 10 | | 6 | -5 | +18 | | | |
| | | mNE | 53 | 15 | | 6 | -7 | -22 | | | |
| | | ess | 54 | 49 | | 329 | | | | | |
| | | i(SS) | 56 | 28 | | 5 | -8 | -6 | | | |
| | | ME | 56 | 32 | | 5 | | 8 | | | |
| | | eE | 58 | 46 | | 11 | | | | | |
| | | iN | 59 | 24 | | 3 | -10 | | | | |
| | | 75 | " 8 | MN | 19 | 01 | 21 | 5 | 17 | | |
| ME | 03 | | | 20 | | 5 | | 12 | | | F 20 05 |
| iPE | 01 | | | 39 | 28 | 2 | | +1 | | | |
| iNE | 39 | | | 45 | | 4 | +2 | -5 | | | |
| iE | 40 | | | 33 | | 5 | | -4 | | | |
| iNE | 41 | | | 08 | | 4 | -3 | +11 | | | |
| iN | 41 | | | 41 | | 4 | +3 | | | | |
| iSN | 43 | | | 49 | | 6 | -2 | | | | |
| iSE | 43 | | | 51 | | 6 | | -3 | | | |
| ME | 43 | | | 55 | | 6 | | 8 | | | |
| eL | 46.3 | | | | | 24 | | | | | |
| 76 | " 11 | | | MN | 48 | 20 | | 15 | 11 | | |
| | | ME | 49 | 31 | | 16 | | 14 | | | F 02 25 |
| | | iPNE | 21 | 27 | 24 | 4 | -5 | -5 | | 2700 | |
| | | iPZ | 27 | 24 | | 2 | | | +5 | (24.3) | h 0.02 |
| | | mZ | 27 | 26 | | 2 | | | -13 | | H 21 22 20 |
| | | mNE | 27 | 28 | | 4 | +8 | +8 | | | |
| | | iPN | 27 | 53 | | 6 | +4 | | | | |
| | | iPPNE | 28 | 05 | | 4 | -12 | -8 | +5 | | |
| | | iSNE | 31 | 30 | | 7 | -24 | +5 | | | |
| | | MN | 31 | 48 | | 7 | 22 | | | | |
| | | ME | 31 | 55 | | 7 | | 21 | | | |
| | | 77 | " 12 | iE | 32 | 19 | | 6 | | +17 | |
| iSSN | 32 | | | 22 | | 7 | +30 | | | | |
| iSSN | 32 | | | 42 | | 7 | -27 | | | | |
| i(SSS) | 32 | | | 55 | | 9 | -64 | | | | |
| ME | 32 | | | 56 | | 7 | | 28 | | | |
| MN | 33 | | | 04 | | 7 | 50 | | | | |
| MN | 37 | | | 11 | | 9 | 15 | | | | |
| ME | 39 | | | 14 | | 12 | | 31 | | | |
| ePNE | 04 | | | 16 | 17 | 3 | | | | 48° | F 22 50 |
| ePPE | 18 | | | 08 | | 4 | | | | | H 04 07.7 |
| iN | 18 | | | 16 | | 4 | +11 | | | | Felt in Mindanao & |
| iNE | 18 | | | 25 | | 8 | +26 | -9 | | | Halmahera, Agusan |
| iSN | 23 | 07 | | 8 | -46 | | | | Valley VIII-IX. | | |
| iSSN | 26 | 48 | | 10 | +120 | | | | | | |
| iE | 27 | 00 | | 9 | | -185 | | | | | |
| eL | 30.8 | | | 23 | | | | | | | |
| ME1 | 35 | 42 | | 16 | | 260 | | | | | |
| MZ1 | 39 | 35 | | 17 | | | 120 | | | | |
| MN1 | 39 | 40 | | 15 | 225 | | | | | | |
| ME2 | 40 | 32 | | 18 | | 290 | | | | | |
| MZ2 | 42 | 19 | | 15 | | | 140 | | | | |
| MN2 | 42 | 30 | | 15 | 260 | | | | | | |
| W2 | MN3 | 06 | 56 | 53 | 22 | 10 | | | | F 07 34 | |

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|-----|-----------------|-------------------|---------------------|------|-----------------------------|------------|---------------------|---------------------|---------------------|--|----------|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 78 | 1911 July 12 | eS | 08 | 16 | ⁴⁵ 55 | 11 | | | | Aftershock of No.77 | |
| | | ME | | 33 | 25 | 16 | | 3 | | | |
| | | MN | | 35 | 29 | 14 | 2 | | | | |
| | | F | 09 | 00 | | | | | | | |
| 79 | " 19 | iP _{NE} | 10 | 06 | 13 | 4 | | -22 | | 2940 (26.4) h 0.02 H 10 00 50 | |
| | | iP _Z | | 06 | 13 | 3 | | | +19 | | |
| | | mNEZ | | 26 | 16 | 4 | -4 | +28 | 37 | | |
| | | iP _{NEZ} | | 06 | 48 | 5 | | +34 | -42 | | |
| | | iE | | 07 | 12 | 7 | | -36 | | | |
| | | iN | | 10 | 05 | 7 | +10 | | | | |
| | | iSNE | | 10 | 33 | 7 | -12 | +27 | | | |
| | | i (eS)NE | | 11 | 43 | 8 | +8 | -35 | | | |
| | | iSSN | | 12 | 07 | 16 | +184 | | | | |
| | | eL | | 13.4 | | 18 | | | | | |
| | | ME | | 14 | 12 | 12 | | | 14 | | |
| | | MN | | 14 | 25 | 15 | 53 | | | | |
| | | ME | | 17 | 09 | 12 | | 25 | | | |
| | | F | 11 | 40 | | | | | | | |
| 80 | " 19 | iP _{NE} | 20 | 29 | 15 | 2 | +1 | +2 | | Aftershock of No.77 | |
| | | iN | | 31 | 04 | 3 | +1 | | | | |
| | | eS | | 36 | 08 | 10 | | | | | |
| | | eSS | | 39 | 36 | 10 | | | | | |
| | | mNE | | 40 | 14 | 10 | 5 | 5 | | | |
| | | MN | | 55 | 26 | 15 | 7 | | | | |
| | | ME | | 58 | 03 | 15 | | 10 | | | |
| | | F | 21 | 30 | | | | | | | |
| 81 | " 19 | e | 21 | 36 | 09 | 10 | | | | Probably aftershock of No.77. | |
| | | e | | 39 | 35 | 8 | | | | | |
| | | MN | | 55 | 18 | 16 | 3 | | | | |
| 82 | " 23 | eN | 16 | 51.4 | | | | | | F 22 10 | |
| | | e | | 56.3 | 22 | | | | | | |
| | | eL | 17 | 03.8 | 25 | | | | | | |
| | | MN | | 10 | 30 | 19 | 17 | | | | |
| 83 | " 25 | ME | | 10 | 40 | 19 | | 21 | | F 18 00 | |
| | | e | 04 | 08 | 06 | 7 | | | | | |
| | | eE | | 12 | 52 | 9 | | | | | |
| | | eH | | 14 | 45 | 7 | | | | | |
| | | ME | | 20 | 02 | 13 | | 9 | | | |
| | | MN | | 21 | 20 | 9 | 7 | | | | |
| | | F | 04 | 50 | | | | | | | |
| 84 | " 27 | eL | 11 | 20.1 | 22 | | | | | F 11 50 | |
| | | ME | | 21 | 16 | 14 | | 8 | | | |
| | | MN | | 22 | 32 | 17 | 10 | | | | |
| 85 | " 29 | eL | 10 | 11.6 | 27 | | | | | F 10 50 | |
| | | MN | | 15 | 17 | 18 | 8 | | | | |
| | | ME | | 19 | 12 | 17 | | 16 | | | |
| 86 | " 30 | iE | 14 | 04 | 44 | 4 | | -2 | | F 14 25 | |
| | | iE | | 05 | 07 | 6 | | +5 | | | |
| | | mNE | | 05 | 11 | 6 | -5 | +5 | | | |
| | | eL | | 07.8 | 12 | | | | | | |
| | | MN | | 08 | 00 | 12 | 6 | | | | |
| | | ME | | 08 | 30 | 11 | | 6 | | | |
| | | e?E | 00 | 14 | 28 | 1 | | | | | |
| | | eE | | 17 | 10 | 3 | | | | | |
| 87 | " 31 | iN | | 19 | 57 | 4 | -2 | | | F 14 25 | |
| | | mNE | | 20 | 11 | 4 | 4 | 1 | | | |
| | | MN | | 23 | 02 | 4 | 5 | | | | |
| | | ME | | 26 | 30 | 6 | | 2 | | | |
| | | MN | | 27 | 11 | 7 | 2 | | | | |
| | | F | 04 | 00 | | | | | | | |
| | | | 00 | 40 | | | | | | | |

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|---------|----------------|--------|---------------------|----|----|------------|---------------------|---------------------|---------------------|----------|--|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 88 | 1911 Aug. 4 | eN | 01 | 22 | 24 | 2 | | | | | |
| | | eS | | 28 | 30 | 12 | | | | | |
| | | ME | | 29 | 11 | 12 | | | 6 | | |
| | | i(SS)E | | 32 | 04 | 14 | | | +19 | | |
| | | MNE | | 32 | 11 | 14 | | 11 | 21 | | |
| | | eLE | | 40 | .1 | 23 | | | | | |
| | | ME | | 41 | 25 | 23 | | | 18 | | |
| | | MN | | 42 | 04 | 20 | | 7 | | | |
| 89 | " 8 | e? | 18 | 26 | .2 | | | | | | F 02 10 The times may be in error by several seconds. |
| | | e | | 29 | .0 | | | | | | |
| | | eL | | 39 | .5 | 22 | | | | | |
| | | MN | | 40 | 17 | 21 | | 22 | | | |
| | | ME | | 43 | 00 | 16 | | | 14 | | |
| | | F | | 19 | 30 | | | | | | |
| | | eLE | | 00 | 28 | .1 | 27 | | | | |
| | | ME | | 31 | .2 | 18 | | | 11 | | |
| 90 | " 10 | MN | | 31 | .9 | 22 | | 8 | | | F 00 50 Yap, W. Carolines. |
| | | | | | | | | | | | |
| 91 | " 16 | iPN | 22 | 49 | 13 | 7 | | -2 | | | |
| | | iNE | | 49 | 23 | 7 | | +34 | -9 | | |
| | | iN | | 49 | 36 | 5 | | +17 | | | |
| | | iPPNE | | 51 | 05 | 7 | | -14 | +16 | | |
| | | MZ | | 51 | 20 | 6 | | | +100 | | |
| | | MN | | 51 | 22 | 7 | | +93 | | | |
| | | iSNE | | 55 | 49 | 12 | | +35 | -106 | | |
| | | MNE | | 55 | 59 | 12 | | +168 | -105 | | |
| | | iSSN | | 58 | 53 | 12 | | -156 | | | |
| | | MN | | 59 | 19 | 12 | | -300 | | | |
| | | ME | | 59 | 21 | 12 | | | +240 | | |
| | | eLQE | 23 | 00 | .0 | | | | | | |
| | | ME1 | | 07 | 12 | 17 | | | 640 | | |
| | | MN1M21 | | 09 | 50 | 16 | | 575 | 1040 | | |
| | | ME2 | | 10 | 33 | 15 | | | 370 | | |
| | | MN2 | | 15 | 30 | 14 | | 510 | | | |
| | | eW2N | 01 | 25 | .3 | 25 | | | | | |
| MN | | 34 | 16 | 22 | | 20 | | | | | |
| ME | | 43 | 12 | 17 | | | 6 | | | | |
| 92 | " 18 | iPNE | 03 | 03 | 04 | 4 | | -12 | +1 | | F 02 20 Agusan Valley, Mindanao. |
| | | iE | | 09 | 50 | 4 | | | -1 | | |
| | | e(S)E | | 10 | 09 | 6 | | | | | |
| | | eSS | | 13 | 23 | 8 | | 16 | | | |
| | | MN | | 25 | 27 | 15 | | 5 | | | |
| 93 | " 21 or pP | ME | | 27 | 33 | 15 | | | 5 | | F 03 50 h 0.05 H 16 28 58. The readings are also satisfied by h 0.06, Δ 32°5, but h 0.05 seems to agree better with the readings of the European stations. N & E measurements from the Mainka. |
| | | iPNZ | 16 | 34 | 53 | 5 | | -6 | +17 | 31°8 | |
| | | iN | | 35 | 23 | 6 | | +4 | | | |
| | | i(P)E | | 36 | 12 | 7 | | | +10 | | |
| | | MNE2 | | 36 | 23 | 7 | | -10 | -85 | +98 | |
| | | iN | | 36 | 31 | 6 | | -4 | | | |
| | | MNE | | 36 | 39 | 6 | | -11 | -23 | | |
| | | iSNEZ | | 39 | 37 | 7 | | +14 | +30 | +12 | |
| | | MNE | | 39 | 42 | 7 | | -38 | -42 | | |
| | | i(S)N | | 41 | 24 | 8 | | -16 | | | |
| | | i(SS)N | | 42 | 07 | 7 | | +43 | | | |
| | | iN | | 42 | 34 | 10 | | -77 | -43 | | |
| | | eLN | | 44 | 06 | 14 | | | | | |
| | | MN1 | | 44 | 18 | 14 | | 130 | | | |
| i(SS)NE | | 44 | 53 | 6 | | +13 | -5 | | | | |
| ME | | 45 | 00 | 6 | | | +17 | | | | |
| ME | | 45 | 17 | 14 | | | 50 | | | | |
| MZ | | 45 | 38 | 14 | | | | 20 | | | |
| 94 | " 25 | eN | 14 | 49 | 32 | 6 | | | | | F 18 00 F 15 30 |
| | | eLE | | 49 | .8 | 21 | | | | | |
| | | ME | | 51 | 17 | 12 | | | 20 | | |
| | | MN | | 51 | 25 | 15 | | 20 | | | |

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|-----|------------------|--------|---------------------|------|----|------------|------------|-------|-------|-----------------|----------------|--|--|
| | | | | | | | A_N | A_E | A_Z | | | | |
| | | | h. | m. | s. | | μ | μ | μ | | | | |
| 102 | 1911 Sept. 21 | eR | 07 | 35 | 47 | 8 | | | | | | | |
| | | eL | | 41.1 | | 22 | | | | | | | |
| | | ME | | 41 | 24 | 22 | | 11 | | | | | |
| | | MN | | 45 | 13 | 20 | 10 | | | | | | |
| | | F | 08 | 10 | | | | | | | | | |
| 103 | " 22 | eL | 05 | 53.1 | | 25 | | | | | | | |
| | | ME | | 59 | 42 | 22 | | 8 | | | | | |
| | | MN | 06 | 02 | 10 | 21 | 5 | | | | F 06 20 | | |
| 104 | " 24 | eR | 04 | 10 | 53 | 8 | | | | | | | |
| | | eLN | | 14.6 | | 31 | | | | | | | |
| | | ME | | 17 | 44 | 21 | | 20 | | | | | |
| | | MN | | 18 | 56 | 22 | 12 | | | | F 04 40 | | |
| 105 | " 25 | eR | 06 | 06 | 22 | 7 | | | | | | | |
| | | ME | | 06 | 41 | 6 | | 1 | | | | | |
| | | eL | | 13.9 | | 26 | | | | | | | |
| | | MN | | 14.8 | | 16 | 21 | | | | | | |
| | | ME | | 15 | 37 | 18 | | 25 | | | F 09 10 | | |
| 106 | " 26 | eL | 03 | 21.0 | | 20 | | | | | | | |
| | | MN | | 22 | 55 | 16 | 4 | | | | | | |
| | | ME | | 26 | 29 | 17 | | 6 | | | | | |
| | | F | 03 | 35 | | | | | | | | | |
| 107 | Oct. 2 | e | 13 | 49 | 33 | | | | | | | | |
| | | e | | 49 | 44 | 3 | | | | | | | |
| | | ME | | 51 | 29 | 7 | | 1 | | | | | |
| | | F | 14 | 05 | | | | | | | | | |
| 108 | " 3 | eR | 09 | 07 | 59 | 4 | | | | | | | |
| | | eR | | 13 | 53 | 6 | | | | | | | |
| | | eL | | 16.6 | | 21 | | | | | | | |
| | | ME | | 17 | 33 | 20 | | 9 | | | | | |
| | | MN | | 18 | 21 | 20 | 7 | | | | | | |
| | | F | 09 | 40 | | | | | | | | | |
| 109 | " 4 | eL | 15 | 28.6 | | 10 | | | | | | | |
| | | ME | | 29 | 27 | 8 | | 1 | | | F 15 40 | | |
| 110 | " 5 | eR | 07 | 41 | 42 | 2 | | | | | | | |
| | | eL | | 47.5 | | 21 | | | | | | | |
| | | ME | | 49 | 52 | 17 | | 6 | | | | | |
| | | F | 08 | 10 | | | | | | | | | |
| 111 | " 6 | e(PP) | 10 | 39 | 38 | 5 | | | | | | | |
| | | e(SS) | | 56.8 | | 20 | | | | | | | |
| | | e(SSS) | 11 | 02.7 | | 22 | | | | | | | |
| | | eLN | | 15.3 | | 37 | | | | | | | |
| | | eLR | | 21.8 | | 30 | | | | | | | |
| | | MN | | 24 | 18 | 22 | 4 | | | | | | |
| | | ME | | 25 | 51 | 22 | | 11 | | | | | |
| | | F | 12 | 40 | | | | | | | | | |
| | | eLg | 14 | 16.9 | | 20 | | | | | Friction on N. | | |
| | | ME | | 19 | 00 | 18 | | | | | | | |
| | | F | 14 | 40 | | | | | | | | | |
| | | 113 | " 13 | eR | 02 | 40 | 52 | 2 | | | | | |
| | | | | eR | | 45 | 35 | 10 | | | | | |
| eR | | | | 46 | 05 | 6 | | | | | | | |
| eR | | | | 49.4 | | 15 | | | | | | | |
| eR | | | | 51 | 30 | 11 | | | | | | | |
| MN | 03 | | | 21 | 10 | 19 | 7 | | | | | | |
| ME | | | | 30 | 35 | 17 | | 11 | | | F 04 10 | | |
| 114 | " 14 | eR | 12 | 49 | 36 | | | | | | | | |
| | | eL | 13 | 17.2 | | 20 | | | | | | | |
| | | ME | | 23 | 37 | 18 | | 11 | | | | | |
| 115 | " 14 | F | 13 | 50 | | | | | | | | | |

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| No. | Date. | Phase. | Time (Greenwich) | | | Per. s. | Amplitude. | | | Δ km. | Remarks. |
|------------------|-----------------|--------------------|---------------------|------------------|----|------------------|------------------|-------|--------|-----------------|----------|
| | | | | | | | A_N | A_E | A_Z | | |
| | | | h. | m. | s. | | μ | μ | μ | | |
| 115 | 1911 Oct. 14 | e | 17 | 12.3 | | | | | | | |
| | | ME | | 16 16 | 19 | | 4 | | | | |
| 116 | " 14 | F | 17 | 40 | | | | | | | |
| | | eSKS | 23 | 47 45 | 7 | | | | | | |
| 117 | " 15 | eS | | 48 21 | 7 | | | | | | |
| | | iE | | 49 29 | 6 | | +2 | | | | |
| | | eL _N | 00 | 15.4 | 31 | | | | | | |
| | | MN ₁ | | 16 51 | 31 | 16 | | | | | |
| | | ME ₂ | | 21 57 | 22 | 10 | | | | | |
| 118 | " 15 | ME | | 27 46 | 19 | | 12 | | | F 00 50 | |
| | | e | 07 | 42 45 | 6 | | | | | | |
| | | iE | | 47 57 | 4 | | -5 | | | | |
| | | iNE | | 48 55 | 4 | -13 | -7 | | | | |
| | | iNE | | 49 44 | 4 | +17 | +16 | | | | |
| 119 | " 17 | MN | | 52 57 | 9 | 6 | | | | | |
| | | ME | | 56 42 | 9 | | 6 | | | F 08 40 | |
| | | eN | 09 | 25 30 | | | | | | | |
| | | eE | | 30 35 | 11 | | | | | | |
| 120 | " 17 | ME | | 37 43 | 13 | | 56 | | | | |
| | | MN | | 43 25 | 13 | 42 | | | | F 11 00 | |
| | | eL | 12 | 35.5 | 23 | | | | | | |
| 121 | " 19 | MN | | 37 25 | 23 | 9 | | | | F 12 55 | |
| | | eL | 01 | 57.4 | 20 | | | | | | |
| 122 | " 20 | MN | 02 | 00 02 | 17 | 2 | | | | | |
| | | ME | | 00 44 | 17 | | 5 | | | F 02 10 | |
| | | iPNE | 17 | 49 21 | 4 | -1 $\frac{1}{2}$ | -1 $\frac{1}{2}$ | | 3010 | h 0.03 | |
| | | iPNE | | 50 08 | 4 | +5 | +4 | | (27.1) | H 17 43 57 | |
| | | iE | | 53 07 | 4 | | -5 | | | | |
| | | iSN | | 53 41 | 10 | -34 | | | | | |
| | | iN | | 54 45 | 6 | +14 | | | | | |
| | | iE | | 54 49 | 11 | | -49 | | | | |
| | | iSSN | | 54 53 | 9 | -30 | | | | | |
| | | iSSN | | 55 24 | 10 | +46 | | | | | |
| | | MN | | 58 30 | 18 | 27 | | | | | |
| | | iS _c SN | | 59 40 | 14 | +19 | | | | | |
| | | ME | | 59 43 | 15 | | 36 | | | F 19 20 | |
| | | 123 | " 24 | e ^y N | 00 | 19 35 | | | | | |
| e ^y N | | | | 21 25 | | | | | | | |
| eN | | | | 23.3 | 18 | | | | | | |
| eN | | | | 26.4 | 30 | | | | | | |
| iE | | | | 27 49 | 4 | | -22 | | | | |
| iN | | | | 27 52 | 4 | +17 | | | | | |
| e | | | | 28 25 | 13 | | | | | | |
| MN | | | | 28 58 | 13 | 126 | | | | | |
| ME | | | | 29 06 | 13 | | 230 | | | | |
| iN | | | | 30 32 | 10 | -95 | | | | | |
| MNEZ | | | | 30 50 | 10 | 159 | 119 | 286 | | | |
| iE | | | | 35 17 | 4 | | 59 | | | | |
| ME | | | | 35 31 | 4 | | 105 | | | | |
| MN | | | | 35 33 | 4 | 61 | | | | | |
| ME | | | | 35 55 | 4 | | | 28 | | | |
| MN | | | | 36 19 | 11 | 230 | | | | | |
| ME | | | | 36 36 | 12 | | 420 | | | F 01 45 | |
| 124 | " 24 | iE | 23 | 43 40 | 4 | | -2 | | | | |
| | | ME | | 44 37 | 11 | | 12 | | | | |
| 124 | " 27 | F | 23 | 50 | | | | | | | |
| | | eL | 22 | 50.8 | 21 | | | | | | |
| | | ME ₁ | | 52 13 | 20 | | 23 | | | | |
| | | MN | | 52 54 | 16 | 13 | | | | | |
| | | ME ₂ | | 53 52 | 13 | | 16 | | | | |
| F | | 23 10 | | | | | | | | | |

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| No. | Date. | Phase. | Time (Greenwich) | | | Per. s. | Amplitude. | | | Δ km. | Remarks. |
|------|----------------|------------------|---------------------|-------|----|------------|---------------------|---------------------|-----------------------------|----------|------------------------|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 125 | 1911 Nov. 1 | eL | 08 | 24.8 | | 29 | | | | | |
| | | ME ₁ | | 26.7 | | 22 | | 6 | | | |
| | | ME ₂ | | 35.7 | | 16 | | 6 | | | |
| | | F | 08 | 45 | | | | | | | |
| 126 | " 2 | eL | 00 | 48.5 | | 20 | | | | | |
| | | MN | 01 | 01.3 | | 20 | 16 | | | | |
| | | ME | | 02.9 | | 9 | | 8 | | | |
| | | F | 01 | 20 | | | | | | | |
| 127 | " 9 | eL | 04 | 43.3 | | 26 | | | | | Friction on N. |
| | | ME | | 44.3 | | 26 | | 56 | | | |
| | | F | 05 | 10 | | | | | | | |
| 128 | " 13 | eL | 16h+ | | | 23 | | | | | Times uncertain. |
| | | ME | | | | 23 | | 25 | | | |
| | | MN | | | | 20 | 17 | | | | |
| 129 | " 16 | eP | 11 | 35 37 | | 5 | | | | | |
| | | iS _{NE} | | 39 44 | | 9 | -10 | -10 | | | |
| | | MNE | | 39 51 | | 9 | 22 | 21 | | | |
| | | eL | | 41.4 | | 22 | | | | | |
| | | MN | | 42 39 | | 16 | 21 | | | | |
| | | ME | | 43 21 | | 16 | | 28 | | | |
| | | F | 12 | 30 | | | | | | | |
| 130 | " 18 | e | 03 | 10.1 | | 6 | | | | | |
| | | MN | | 13.0 | | 16 | 5 | | | | |
| | | ME | | 13.7 | | 17 | | 10 | | | |
| | | F | 03 | 40 | | | | | | | |
| 130a | " 18 | | 08h-09h Long waves. | | | 20 | | | | | |
| 31 | " 22 | ME | | | | 20 | | 4 | | | |
| | | iPNEZ | 23 | 10 23 | | 5 | -6 ¹ | -5 | +12 | | Compression, h 0.02 |
| | | MNEZ | | 10 27 | | 5 | +15 | +12 | -18 | | |
| | | iN | | 10 53 | | 4 | +6 | | | | |
| | | iPNEZ | | 10 58 | | 4 | -17 | -11 | +7 | | |
| | | iPPNEZ | | 11 12 | | 5 | +20 | +25 | +46 | | |
| | | MNEZ | | 11 17 | | 5 | 40 | 43 | 35 | | |
| | | iSNE | | 14 29 | | 6 | -50 | +17 | | | |
| | | iE | | 15 13 | | 7 | | -49 | | | |
| | | iS _H | | 15 19 | | 6 | -78 | | | | |
| | | ME | | 23 13 | | 9 | | 13 | | | |
| | | MN | | 23 44 | | 14 | 24 | | | | |
| | " 23 | F | 00 | 30 | | | | | | | |
| 132 | " x 28 | eP | 15 | 50 10 | | | | | 3020 (27 ² 2) | | |
| | | iS _E | | 54 45 | | 6 | | +4 | | | |
| | | MN | | 55.0 | | 16 | | | | | |
| | | iN | | 56 12 | | 6 | +6 | | | | |
| | | eL _N | | 58.2 | | 29 | | | | | |
| | | ME | | 58 18 | | 9 | | -8 | | | |
| | | ME | | 58 41 | | 7 | | 14 | | | |
| | | ME | 16 | 00 11 | | 15 | | 62 | | | |
| | | MN | | 00 24 | | 22 | 280 | | | | |
| | | F | 17 | 10 | | | | | | | |
| 133 | " 29 | MN | 05h ca | | | 23 | 43 | | | | Hour marks missing. |
| | | ME | | | | 17 | | 26 | | | |

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|-----|-----------------|------------------|---------------------|------|----|------------|---------------------|---------------------|-----------------------------|--|-----------------|--|--|---------------|
| | | | h. | m. | s. | | Δ_N μ | Δ_E μ | Δ_Z μ | | | | | |
| 134 | 1911 Nov. 30 | iPNE | 10 | 31 | 18 | 5 | +1 | -2 | 2010 (181) | H 10 27 08 N readings from Mainka. | | | | |
| | | IPPE | | 31 | 25 | 5 | -10 | | | | | | | |
| | | iN | | 31 | 37 | 5 | +3 | | | | | | | |
| | | iN | | 31 | 52 | 5 | +5 | | | | | | | |
| | | S | | 34 | 36 | | | | | | | | | |
| | | eE | | 34 | 46 | 15 | | | | | | | | |
| | | iSS _N | | 34 | 54 | 14 | +37 | | | | | | | |
| | | ME | | 35 | 25 | 14 | | 74 | | | | | | |
| | | MN | | 35 | 36 | 13 | 57 | | | | | | | |
| | | eL | | 36.1 | | 21 | | | | | | | | |
| | | MN ₁ | | 37 | 21 | 12 | 38 | | | | | | | |
| | | ME ₁ | | 36 | 35 | 21 | | 140 | | | | | | |
| | | ME ₂ | | 36 | 52 | 11 | | 52 | | | | | | |
| | | MN ₂ | | 37 | 02 | 11 | 43 | | | | | | | |
| F | | 12 | 30 | | | | | | | | | | | |
| 135 | Dec. 3 | iPNE | 11 | 51 | 14 | 4 | -2 _h | +1 | 2200 (19 ² 8) | H 11 46 44 Region of 53°S, 156°E. | | | | |
| | | mNE | | 51 | 27 | 4 | 5 | 3 | | | | | | |
| | | iSE | | 54 | 50 | 9 | | -8 | | | | | | |
| | | iSS _E | | 55 | 16 | 12 | | -30 | | | | | | |
| | | eL | | 55.9 | | 11 | | | | | | | | |
| | | ME | | 56 | 54 | 10 | | 15 | | | | | | |
| | | MN | | 57 | 16 | 10 | 15 | | | | | | | |
| | | F | | 13 | 30 | | | | | | | | | |
| | | 136 | " 3 | eP | 21 | 53 | 02 | 1 | | | | | | Nearby shock. |
| | | | | iSN | | 54 | 07 | 3 | | | +3 _h | | | |
| MN | | | | 54 | 22 | 3 | 18 | | | | | | | |
| ME | | | | 54 | 23 | 3 | | 8 | | | | | | |
| 137 | " 6 | F | 22 | 05 | | | | | A few long waves. | | | | | |
| | | MN | | | | 19 | 3 | | | | | | | |
| 138 | " 7 | ME | | 18 | | | | | A few long waves. | | | | | |
| | | MNE | | | | 13 | 3 | | | 4 | | | | |
| 139 | " 11 | e | 11 | 23.3 | | | | | N from Mainka. | | | | | |
| | | eLN | | 36.9 | | 23 | | | | | | | | |
| | | MN | | 39 | 59 | 17 | 10 | | | | | | | |
| | | ME | | 41 | 49 | 21 | | | | 25 | | | | |
| 140 | " 11 | F | Lost in No. 140 | | | | | | | N from Mainka. Superimposed on long waves of preceding shock. | | | | |
| | | iN | 11 | 42 | 40 | 3 | -3 | | | | | | | |
| | | iE | | 43 | 06 | 3 | | +2 | | | | | | |
| | | iN | | 43 | 45 | 7 | -3 | | | | | | | |
| | | iE | | 43 | 49 | 3 | | +3 | | | | | | |
| | | iE | | 47 | 55 | 9 | | -17 | | | | | | |
| | | iN | | 48 | 06 | 7 | -6 | | | | | | | |
| | | ME | | 48 | 07 | 9 | | 19 | | | | | | |
| | | MN | | 48 | 20 | 7 | 8 | | | | | | | |
| | | eLN | | 53.5 | | 19 | | | | | | | | |
| | | MN | | 54 | 01 | 18 | 61 | | | | | | | |
| | | ME | | 57 | 58 | 19 | | 88 | | | | | | |
| 141 | " 13 | F | 13 | 10 | | | | | | | | | | |
| | | eN | 22 | 32 | 58 | 2 | | | | | | | | |
| | | eN | | 33 | 40 | 4 | | | | | | | | |
| | | eN | | 37 | 32 | 9 | | | | | | | | |
| | | eN | | 40 | 02 | 6 | | | | | | | | |
| | | MN | | 40 | 28 | 6 | 5 | | | | | | | |
| | | eL | | 42.1 | | 27 | | | | | | | | |
| | | MN | | 45 | 33 | 18 | 81 | | | | | | | |
| | | ME | | 49 | 23 | 21 | | | | 150 | | | | |
| | | F | | 23 | 30 | | | | | | | | | |

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|-----------------|-----------------|------------------|---------------------|-------|----|------------|---------------------|---------------------|---------------------|---|----------------------------|
| | | | h. | m. | s. | | A _N μ | A _E μ | A _Z μ | | |
| 142 | 1911 Dec. 14 | eL | 05 | 14.5 | 16 | | | | | | |
| | | MN | | 16 51 | 11 | 2 | | | | | |
| | | ME | | 19 49 | 11 | | 4 | | | | |
| 143 | " 16 | F | 05 | 30 | | | | | | | |
| | | eP?E | 19 | 29 30 | 4 | | | | | | |
| | | ME | | 29 34 | 4 | | 3 | | | | |
| | | i(PP)E | | 34 32 | 4 | | -3 | | | | |
| | | iSKSE | | 40 03 | 9 | | -8 | | | | |
| | | iSKKE | | 41 10 | 13 | | +11 | | | | |
| | | iPSE | | 43 49 | 19 | | +44 | | | | |
| | | ME | | 44 02 | 19 | | 52 | | | | |
| | | iSSE | | 50 31 | 19 | | -80 | | | | |
| | | iSSSE | | 54 26 | 21 | | -41 | | | | |
| | | eL _{CH} | 20 | 01.4 | 59 | | | | | | N readings from Mainka. |
| | | MN ₁ | | 02 20 | 57 | 57 | | | | | |
| | | eLR | | 07 22 | 51 | | | | | | |
| | | ME ₁₄ | | 08 48 | 24 | | | 87 | | | |
| | | ME ₁ | | 08 54 | 24 | | | | 60 | | |
| ME ₂ | | 12 02 | 20 | 21 | 75 | 63 | | | | | |
| ME ₃ | | 21 20 | 16 | | 42 | | | | | | |
| MN ₃ | | 22 34 | 17 | 14 | | | | | | | |
| MN ₄ | 21 | 03 20 | 24 | 16 | | | | | | | |
| ME ₄ | | 29 42 | 24 | | 33 | | | | | | |
| F | | 22 10 | | | | | | | | | |
| 144 | " 20 | iR | 06 | 15 50 | 6 | | -5 | | | Times may be in error by a few seconds | |
| | | eN | | 23 04 | 16 | | | | | | |
| | | e | | 25.9 | 17 | | | | | | |
| | | eL | | 30.8 | 50 | | | | | | |
| | | MN | | 35 23 | 21 | 37 | | | | | |
| 145 | " 20 | ME | | 35 46 | 21 | | 20 | | | Times may be in error by a few seconds | |
| | | F | 07 | 10 | | | | | | | |
| | | e? | 14 | 34 35 | | | | | | | |
| | | e | | 37 22 | 18 | | | | | | |
| 146 | " 21 | MN | | 39 26 | 12 | 6 | | | | | |
| | | ME | | 39 39 | 12 | | 14 | | | | |
| | | F | 14 | 55 | | | | | | | |
| 147 | " 23 | eL | 02 | 03.6 | 24 | | | | | | |
| | | ME | | 06.1 | 19 | | 12 | | | | |
| 148 | " 24 | F | 02 | 20 | | | | | | | |
| | | eL | 22 | 02.1 | 24 | | | | | | |
| | | ME ₁ | 23 | 04 58 | 24 | | 17 | | | | |
| 149 | " 25 | MN | | 06 19 | 21 | 11 | | | | | |
| | | ME ₂ | | 08 41 | 18 | | 20 | | | | |
| | | F | 23 | 45 | | | | | | | |
| 150 | " 25 | EP | 15 | 48 06 | 6 | | | | | | |
| | | eL | | 50.6 | 17 | | | | | | |
| | | MN | | 51 57 | 15 | 4 | | | | | |
| 151 | " 25 | F | 16 | 05 | | | | | | | |
| | | eL | 01 | 32.0 | 26 | | | | | | |
| 152 | " 25 | ME | | 34 40 | 20 | | 27 | | | | |
| | | F | 02 | 00 | | | | | | | |
| 153 | " 25 | eL | 15 | 58.1 | 19 | | | | | | |
| | | ME | 16 | 00 45 | 16 | | 7 | | | | |
| | | F | 16 | 20 | | | | | | | |

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|-----------------|-----------------|-----------------|---------------------|-------|----|------------|----------------|----------------|----------------|-----------------|----------|
| | | | h. | m. | s. | | A_N μ | A_E μ | A_Z μ | | |
| 151 | 1911 Dec. 28 | e | 18 | 33.8 | 4 | | | | | | |
| | | eH | | 37.9 | 7 | | | | | | |
| | | eL | | 40.0 | 15 | | | | | | |
| | | MN | 40 | 44 | 13 | 4 | | | | | |
| 152 | " 29 | F | 18 | 50 | | | | | | | |
| | | e | 15 | 53.0 | 14 | | | | | | |
| | | eL | 16 | 13.6 | 24 | | | | | | |
| | | MN ₁ | 14 | 45 | 24 | 9 | | | | | |
| | | ME | 17 | 05 | 22 | | 6 | | | | |
| 153 | " 30 | MN ₂ | 18 | 45 | 20 | 17 | | | | | |
| | | F | 16 | 50 | | | | | | | |
| 154 | " 31 | e(P) | 09 | 16 42 | | | | | | | |
| | | eH | | 20 43 | 9 | | | | | | |
| | | eE | | 22 00 | 9 | | | | | | |
| | | ME | | 22 08 | 9 | | 8 | | | | |
| | | MN | | 22 18 | 9 | 6 | | | | | |
| | | iE | | 22 51 | 6 | | -17 | | | | |
| | | iH | | 22 52 | 6 | -11 | | | | | |
| | | MNE | | 23 00 | 6 | 9 | 19 | | | | |
| | | eL | | 24.1 | 14 | | | | | | |
| | | MN | | 24 37 | 11 | 65 | | | | | |
| | | ME | | 25 27 | 10 | | 61 | | | | |
| | | F | 10 | 25 | | | | | | | |
| | | 155 | " 31 | eE | 04 | 14 40 | | | | | |
| e | | | | 15 38 | 7 | | | | | | |
| e | | | | 17 27 | 13 | | | | | | |
| ME | | | | 16 52 | 11 | | 12 | | | | |
| eL | | | | 17.8 | 21 | | | | | | |
| MN ₁ | | | | 18 50 | 13 | 10 | | | | | |
| MN ₂ | | | | 19 22 | 11 | 9 | | | | | |
| ME | | | | 20 51 | 13 | | 7 | | | | |
| F | Lost in No. 156 | | | | | | | | | | |
| eE | 04 | | | 36 21 | 4 | | | | | | |
| 156 | " 31 | MN | | 39 25 | 14 | 6 | | | | | |
| | | F | 05 | 00 | | | | | | | |
| 157 | " 31 | e | 05 | 24 54 | | | | | | | |
| | | MEM | | | | | | | | | |
| | | eL | | 25.8 | 16 | | | | | | |
| | | ME | | 26 19 | 14 | | 21 | | | | |
| | | MN | | 29 01 | 11 | 13 | | | | | |
| | | F | 05 | 45 | | | | | | | |
| 158 | " 31 | ePN | 06 | 13 45 | 7 | | | | | | |
| | | iPPN | | 14 47 | 4 | +3 | | | | | |
| | | eH | | 17.7 | 17 | | | | | | |
| | | eS | | 18 57 | 15 | | | | | | |
| | | MNE | | 19 11 | 15 | 33 | 22 | | | | |
| | | e | | 19 17 | 27 | | | | | | |
| | | eL | | 23.0 | 34 | | | | | | |
| | | ME ₁ | | 24 30 | 27 | | 218 | | | | |
| | | MN ₁ | | 24 32 | 26 | 112 | | | | | |
| | | ME ₂ | | 25 59 | 16 | | 590 | | | | |
| | | MN ₂ | | 27 41 | 20 | 400 | | | | | |
| | | MN ₃ | | 29 02 | 11 | 190 | | | | | |
| | | F | 08 | 20 | | | | | | | |
| 159 | " 31 | eH | 20 | 11 28 | | | | | | | |
| | | eL | | 12.8 | 14 | | | | | | |
| | | ME | | 13 14 | 13 | | 5 | | | | |
| | | MN | | 14 53 | 13 | 3 | | | | | |
| | | F | 20 | 25 | | | | | | | |

 Times may be in error
by a few seconds.

 Times may be in error
by a few seconds.