

No. 1 (continued)

1936, January.

RIVERVIEW COLLEGE OBSERVATORY,

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date. | Phase | Time (Greenwich) | | | Per | Amplitude. | | | Δ km. | Remarks. |
|-----|-----------------|---------------|---------------------|---------------|---------------|--------------|----------------------|----------------------|----------------------|---------------------|----------|
| | | | | | | | A _N mm | A _E mm | A _Z mm | | |
| 8 | 1936 Jan. 14 | iPNEZ | 17 | 45 | 56 | 3 | +2.5 | +3.1 | -0.2 | 2445 (22°0) | |
| | | iZ | | 45 | 58 | 3 | | | +2.4 | | |
| | | ME | | 46 | 20 | 5 | | 5.4 | | | |
| | | ME | | 46 | 28 | 5 | | 5.9 | | | |
| | | iSN | | 50 | 00 | 7 | -8.4 | | | | |
| | | iSE | | 50 | 02 | 8 | | +12.9 | | | |
| | | mN | | 50 | 06 | 8 | 16.5 | | | | |
| | | mZ | | 50 | 11 | 7 | | | 1.1 | | |
| | | eL | | 51.6 | | 17 | | | | | |
| | | ME | | 53 | 25 | 13 | | 10.2 | | | |
| | | MN | | 54 | 04 | 13 | 11.5 | | | | |
| | | MZ | | 56 | 31 | 12 | | | 0.2 | | |
| | | F | | 19 | 35 | | | | | | |
| 9 | " 15 | eN | 10 | 09.8 | | | | | | | |
| | | eL | | 15.8 | 16 | | | | | | |
| | | ME | | 17 | 45 | 16 | | 0.1 | | | |
| | | MN | | 17 | 54 | 14 | 0.2 | | | | |
| | | F | | 10 | 30 | | | | | | |
| 10 | " 15 | PNEZ | 14 | 48 | 12 | | | | 2365 (21°3) | P in minute mark. | |
| | | iNE | | 48 | 15 | 7 | -2.5 | -5.0 | | | |
| | | mN | | 48 | 55 | 7 | 3.0 | | | | |
| | | ME | | 49 | 00 | 7 | | 2.8 | | | |
| | | iSNE | | 52 | 07 | 7? | -2.0 | -3.0 | | | |
| | | mN | | 52 | 15 | 8 | 2.2 | | | | |
| | | MN | | 53 | 02 | 8 | 2.3 | | | | |
| | | MEZ | | 52 | 20 | 8 | | 7.5 | | | 0.4 |
| | | mN | | 53 | 02 | 8 | 2.3 | | | | |
| | | eL | | 53.5 | | 21 | | | | | |
| | | MNZ | | 55 | 30 | 15 | 3.3 | | | | 0.1 |
| ME | | 55 | 32 | 16 | | 3.1 | | | | | |
| F | | 16 | 20 | | | | | | | | |
| 11 | " 15 | ePNE | 16 | 43 | 00 | 6 | 0.2 | 0.5 | 2380 (21°4) | | |
| | | eSE | | 46 | 56 | 5 | | 0.9 | | | |
| | | eSN | | 46 | 59 | 5 | 0.6 | | | | |
| | | eL | | 49.2 | | 14 | | | | | |
| | | MN | | 50 | 30 | 14 | 0.5 | | | | |
| | | ME | | 50 | 51 | 14 | | 0.2 | | | |
| F | | 17 | 25 | | | | | | | | |
| 12 | " 16 | eN | 02 | 31.4 | | | | | | A few small waves. | |
| | | | | | | | | | | | |
| 13 | " 16 | eN | 05 | 03.4 | | | | | | " " " " | |
| | | | | | | | | | | | |
| 14 | " 16 | iPE | 07 | 14 | 51 | 3 | | -1.0 | 2465 (22°2) | | |
| | | iSE | | 18 | 54 | 4 | | -1.5 | | | |
| | | eLN | | 21.2 | | 16 | | | | | |
| | | MN | | 22 | 33 | 11 | 0.2 | | | | |
| | | F | | 07 | 40 | | | | | | |
| 15 | " 16 | eN | 12 | 44.8 | | | | | | Small shallow waves | |
| | | | | | | | | | | | |
| 16 | " 19 | e(S) | 22 | 49 | 57 | 8 | | | | | |
| | | eL | | 54.5 | | 19 | | | | | |
| | | ME | | 56 | 45 | 13 | | 0.3 | | | |
| | | MN | | 58 | 14 | 14 | 0.2 | | | | |
| | | F | | 23 | 20 | | | | | | |

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i> | | | Per | Amplitude. | | | Δ km. | Remarks. |
|----------------|-----------------|-------|--------------------------|------|-----|-----|----------------------|----------------------|----------------------|----------|----------|
| | | | | | | | A _N mm | A _E mm | A _Z mm | | |
| 17 | 1936 Jan. 20 | ePz | 17 | 04 | 38 | | | | 4965 (44°7') | | |
| | | iNE | | 04 | 51 | 5 | +1.0 | -1.0 | | | |
| | | iZ | | 04 | 56 | 3 | | | | -0.5 | |
| | | SNE | | 11 | 21 | 10 | 2.0 | 1.5 | | | |
| | | iE | | 11 | 43 | 10 | | +4.5 | | | |
| | | mN | | 11 | 48 | 12 | 2.5 | | | | |
| | | iE | | 14 | 43 | 10 | | +5.7 | | | |
| | | mN | | 15 | 06 | 13 | 3.0 | | | | |
| | | ME | | 15 | 14 | 11 | | 7.2 | | | |
| | | eL | | 21 | .2 | 24 | | | | | |
| | | ME | | 23 | 56 | 21 | | 3.0 | | | |
| | | MN | | 24 | 47 | 21 | 2.0 | | | | |
| 18 | " 21 | F | 18 | 35 | | | | | | | |
| | | eN | 01 | 39.3 | | | | | | | |
| 19 | " 22 | MN | | 43 | 41 | 10 | 0.2 | | | | |
| | | F | 01 | 50 | | | | | | | |
| 20 | " 23 | e | 00 | 48.3 | | | | | | | |
| | | eL | | 50.2 | 16 | | | | | | |
| | | MN | | 51 | 36 | 10 | 0.3 | | | | |
| 21 | " 23 | F | 01 | 10 | | | | | | | |
| | | eE | 00 | 13.3 | | | | | | | |
| | | e(L) | | 14.6 | 10 | | | | | | |
| 21 | " 23 | MN | | 16 | 22 | 9 | 0.4 | | | | |
| | | F | 00 | 30 | | | | | | | |
| | | e? | 10 | 10.7 | | | | | | | |
| | | eL | | 16.4 | 15 | | | | | | |
| | | ME | | 17 | 42 | 10 | | 0.4 | | | |
| MN | | 19 | 05 | 7 | 0.8 | | | | | | |
| F | 10 | 45 | | | | | | | | | |
| -----000----- | | | | | | | | | | | |
| 1936, Jan. 31. | | | | | | | | | | | |

WM. O'LEARY, S.J.
Director.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\Phi = 33^{\circ} 49' 49'' \text{ S.}$
 $\lambda = 151^{\circ} 9' 30'' \text{ E.}$
 $h = 41.9 \text{ m.}$

Foundation : Triassic sandstone.

INSTRUMENTS :

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

| | V | T_0 | $\epsilon:1$ | $\frac{r}{T_0^2}$ |
|-----------|-----|-------|--------------|-------------------|
| A^N (1) | 219 | 7.6 | 4.0 | 0.019 |
| (3) | 85 | 11.9 | 4.9 | 0.014 |
| A^E (1) | 204 | 8.8 | 3.8 | 0.015 |
| (3) | 94 | 12.5 | 2.6 | 0.022 |
| A^Z (2) | 60 | 5.2 | 4.1 | 0.037 |

| No. | Date | Phase | Time (Greenwich) | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|------------------|-------|---------------------|-----------|--------------|--------------|----------------|-----------------------------------|----------|
| | | | | | A_N mm. | A_E mm. | A_Z mm. | | |
| 22 | 1936 Febry. 3 | eE | 03 47.6 | | | | | | |
| | | eLN | 54.3 | 18 | | | | | |
| | | MN | 56 24 | 11 | 0.2 | | | | |
| | | F | 04 15 | | | | | | |
| 23 | " 5 | ME | 07 14 18 | ? | | | | Obscured by heavy microseisms. | |
| | | F | 07 30 | | | | | | |
| 24 | " 6 | e | 04 33.3 | | | | | | |
| | | MN | 36 55 | 11 | 0.3 | | | | |
| 25 | " 7 | F | 04 45 | | | | | | |
| | | eE | 00 56 19 | 6 | | | | | |
| | | ME | 56 37 | 6 | | 1.0 | | | |
| | | eL | 01 05.5 | 23 | | | | | |
| 26 | " 7 | ME | 07 04 | 18 | | 0.5 | | | |
| | | MN | 07 24 | 14 | 0.4 | | | | |
| | | F | 01 45 | | | | | | |
| | | eE | 09 10.8 | | | | | | |
| 27 | " 8 | eNE | 19.1 | 8 | | | | | |
| | | eL | 36.3 | 24 | | | | | |
| | | ME | 46 31 | 20 | | 0.4 | | | |
| | | MN | 49 41 | 20 | 0.5 | | | | |
| 28 | " 10 | F | 10 50 | | | | | | |
| | | ePNZ | 12 17 08 | 4 | | | 3400 (30'6) | | |
| | | SN | 22 18 | 10 | 1.1 | | | | |
| | | mN | 23 07 | 9 | 2.6 | | | | |
| 29 | " 12 | eL | 25.9 | 16 | | | | | |
| | | MN | 28 22 | 16 | 3.7 | | | | |
| | | ME | 29 07 | 11 | | 5.8 | | | |
| | | F | 13 35 | | | | | | |
| 30 | " 12 | iPEZ | 18 11 16 | 3 | | -1.3 | -0.3 | Deep focus. | |
| | | iNE | 15 52 | 6 | +1.2 | +2.0 | | | |
| | | iNE | 20 53 | 5 | -1.8 | +3.6 | | | |
| | | iNE | 24 41 | 5 | -1.4 | +2.0 | | | |
| 29 | " 12 | F | 19 00 | | | | | | |
| | | e | 05 01.5 | | | | | | |
| | | MN | 09 00 | 13 | 0.2 | | | | |
| | | ME | 09 07 | 14 | | 0.2 | | | |
| 30 | " 12 | F | 05 20 | | | | | | |
| | | iN | 09 47 26 | 4 | -0.5 | | | | |
| | | iE | 47 27 | 4 | | -1.4 | | | |
| | | iN | 50 39 | 4 | +1.2 | | | | |
| 30 | " 12 | ME | 50 57 | 7 | | 0.7 | | | |
| | | MN | 57 33 | 5 | 0.5 | | | | |
| | | F | 10 10 | | | | | | |
| | | | | | | | | | |

(Continued on next sheet)

No. 2 (cont.)

1936, February.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i>) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|-----------------|------------------|----------------------------|-------|----|-----------|-----------------------|-----------------------|-----------------------|--|--|
| | | | h. | m. | s. | | A _N mm. | A _E mm. | A _Z mm. | | |
| 31 | 1936 Feb. 14 | e | 23 | 21.4 | | | | | | | |
| | | eL | | 25.6 | 13 | | | | | | |
| | | MN | | 27 00 | 11 | 0.4 | | | | | |
| | | ME | | 28 20 | 10 | | 0.5 | | | | |
| | | F | 23 | 40 | | | | | | | |
| 32 | " 15 | iP _{NE} | 12 | 53 38 | 4 | +2.2 | -1.7 | | 3620 | Vertical driving clock stopped. | |
| | | iSE | | 59 02 | 8 | | +3.7 | | | | |
| | | mNE | | 59 10 | 10 | 4.8 | 4.1 | | | | |
| | | eL | 13 | 01.8 | 49 | | | | | | |
| | | ME ₁ | | 06 42 | 16 | | 34.0 | | | | |
| | | ME ₂ | | 07 59 | 14 | | 44.0 | | | | |
| | | MN ₁ | | 10 02 | 16 | 39.5 | | | | | |
| | | ME ₃ | | 12 35 | 16 | | 54.0 | | | | |
| | | MN ₂ | | 14 16 | 14 | 44.5 | | | | | |
| | | F | 15 | 55 | | | | | | | |
| 33 | " 16 | iPZ | 14 | 21 40 | 3 | | | +0.5 | | Deep focus. | |
| | | iP _{NE} | | 21 43 | 4 | -1.2 | -2.0 | | | | |
| | | i _{NE} | | 22 25 | 3 | -1.3 | -1.8 | | | | |
| | | iE | | 22 51 | 4 | | -3.0 | | | | |
| | | i _N | | 25 31 | 3 | -2.2 | | | | | |
| | | i _{SN} | | 25 35 | 7 | +6.1 | | | | | |
| | | iE | | 25 41 | 7 | | -5.5 | | | | |
| | | ME | | 26 26 | 7 | | 4.6 | | | | |
| | | MN | | 29 35 | 14 | 0.5 | | | | | |
| | | F | 15 | 00 | | | | | | | |
| 34 | " 21 | ePNZ | 17 | 03 24 | 3 | 0.7 | | | 3465 (31°2) | | |
| | | i _{SN} | | 08 38 | 8 | -1.7 | | | | | |
| | | eL | | 12.2 | 36 | | | | | | |
| | | ME | | 14 45 | 17 | | 7.7 | | | | |
| | | MN | | 16 41 | 14 | 6.0 | | | | | |
| | | MZ | | 16 46 | 15 | | | 0.4 | | | |
| | | F | 18 | 35 | | | | | | | |
| 35 | " 22 | e | 12 | 08.2 | 3 | | | | | | Small irregular waves. |
| | | F | 12 | 15 | | | | | | | |
| 36 | " 22 | ePNZ | 15 | 36 14 | 3 | 1.0 | | 0.1 | 2000 | | Deep focus? EW.readings from Mainka. Wiechert EW.out of commiss ion. |
| | | iEZ | | 36 17 | 3 | | +0.5 | -0.7 | (18°0) | | |
| | | i _N | | 36 18 | 3 | -4.0 | | | | | |
| | | iE | | 36 20 | 3 | | +1.5 | | | | |
| | | i _N | | 36 24 | 5 | +28.3 | | | | | |
| | | mZ | | 36 25 | 4 | | | 1.8 | | | |
| | | iE | | 36 26 | 7 | | -8.5 | | | | |
| | | mZ | | 36 33 | 5 | | | 2.6 | | | |
| | | i _{SN} | | 39 38 | 14 | +11.0 | | | | | |
| | | iSE | | 39 41 | 14 | | +14.4 | | | | |
| | | ME | | 39 55 | 16 | | 31.8 | | | | |
| | | eLZ | | 40.9 | 25 | | | | | | |
| | | MN ₁ | | 41 14 | 12 | 34.5 | | | | | |
| | | MEZ | | 41 49 | 12 | | 27.3 | 1.7 | | | |
| | | MN ₂ | | 42 43 | 12 | 36.6 | | | | | |
| | | F | 19 | 20 | | | | | | | |
| 37 | " 22 | ePN | 19 | 27 03 | 7 | | | | 2055 (18°5) | Replica of No.36 EW. from Mainka. | |
| | | ePZ | | 27 06 | | | | | | | |
| | | iP _{NE} | | 27 07 | 7 | +5.0 | -0.7 | | | | |
| | | e _{SN} | | 30 34 | 12 | | | | | | |
| | | iSE | | 30 35 | 12 | | -8.4 | | | | |
| | | eLZ | | 31.2 | 13 | | | | | | |
| | | mN | | 31 26 | 13 | 10.7 | | | | | |
| | | ME | | 31 33 | 12 | | 14.7 | | | | |
| | | MZ | | 33 17 | 10 | | | 0.5 | | | |

(Continued on next sheet)

F lost in No.39

No. 2 (continued)

1936, February.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i> | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|---------------|-----------------|-------|--------------------------|------|----|-----------|-------------|-------------|-------------|-----------------|---|
| | | | h. | m. | s. | | A_N mm | A_E mm | A_Z mm | | |
| 38 | 1936 Feb. 22 | ez | 19 | 34.5 | | | | | | | |
| 39 | " 22 | e(P)N | 21 | 19 | 20 | 4 | | | | | A few small short period waves superimposed on No. 37. |
| | | eEZ | 19 | 22 | | 4 | | | | | |
| | | e(S)E | 22 | 55 | | ? | | | | | |
| | | e(S)N | 22 | 58 | | ? | | | | | |
| | | mN | 23 | 26 | | 11 | 0.6 | | | | |
| 40 | " 27 | F | 22 | 00 | | | | | | | |
| | | iPZ | 10 | 10 | 42 | 4 | | | +0.6 | 3445 | Depth of focus 400 km. H = 10 04 20 |
| | | iPNE | 10 | 43 | | 4 | -1.5 | +1.6 | | (31°0) | |
| | | iNE | 11 | 56 | | 4 | +1.9 | -2.2 | | | |
| | | iE | 15 | 54 | | 4 | | -4.0 | | | |
| | | iN | 15 | 57 | | 4 | -5.7 | | | | Short periods throughout. No long waves. |
| | | iE | 18 | 28 | | 5 | | +7.1 | | | |
| | | mE | 18 | 32 | | 6 | | 13.0 | | | |
| | | mZ | 18 | 35 | | 6 | | | 1.2 | | |
| | | MN | 18 | 38 | | 6 | 9.5 | | | | |
| | | MNZ | 22 | 21 | | 5 | 26.2 | | 3.5 | | |
| | | ME | 22 | x42 | | 6 | | 25.0 | | | |
| | | F | 11 | 40 | | | | | | | |
| 41 | " 28 | eNE | 16 | 30.6 | | 6 | | | | | Masked by micro- seisms. |
| | | iN | 33 | 52 | | 6 | +1.3 | | | | |
| | | eL | 39.1 | | | 23 | | | | | |
| | | ME | 44 | 10 | | 10 | | 0.7 | | | |
| | | MN | 45 | 06 | | 12 | 0.6 | | | | |
| | | F | 17 | 10 | | | | | | | |
| -----000----- | | | | | | | | | | | |

 WM. O'LEARY, S.J.
 Director.
 1936, March 14.

No. 3

1936, March.

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 | $\epsilon:1$ | $\frac{r}{T_0^2}$ |
|---------|-----|-------|--------------|-------------------|
| $A^N(1$ | 209 | 8.0 | 3.8 | 0.019 |
| 3 | 89 | 12.0 | 3.2 | 0.013 |
| $A^E(1$ | 232 | 8.6 | 4.0 | 0.015 |
| 3 | 94 | 12.9 | 2.6 | 0.022 |
| $A^Z(2$ | 61 | 5.2 | 3.9 | 0.033 |

| No. | Date | Phase | Time (Greenwich) | | | Per | Amplitude. | | | Δ km. | Remarks. |
|-----------------|-----------------|-----------------|---------------------|-----------------|-----|------|---------------|---------------|---------------------------|-----------------|--------------------|
| | | | | | | | A_N rftm | A_E nftm | A_Z mftm | | |
| 42 | 1936 March 1 | eP _E | 10 | 35 | 23 | 4 | | | | 4790 (43°1) | iS in minute mark. |
| | | e _N | | 35 | 30 | 4 | | | | | |
| | | e _Z | | 35 | 34 | 3 | | | | | |
| | | iS _E | | 41 | 56 | ? | | | | | |
| | | m _N | | 42 | 06 | 11 | 0.8 | | | | |
| | | m _E | | 42 | 10 | 11 | | 3.0 | | | |
| | | eL _E | | 48.4 | | 29 | | | | | |
| | | eL _Z | | 49.4 | | 22 | | | | | |
| | | M _N | | 51 | 28 | 7 | 6.2 | | | | |
| | | M _Z | | 52 | 42 | 7 | | | 0.5 | | |
| | | M _E | | 53 | 25 | 7 | | 6.4 | | | |
| | | F | 12 | 35 | | | | | | | |
| | | 43 | " 2 | e? _N | 03 | 31.4 | | | | | |
| e _E | | | | 39.5 | 6 | | | | | | |
| e _N | | | | 40.6 | 5 | | | | | | |
| eL _E | | | | 50.2 | 24 | | | | | | |
| M _N | | | | 59 | 17 | 24 | 0.3 | | | | |
| M _E | | | | 59 | 37 | 23 | | 0.2 | | | |
| F | 05 | | | 10 | | | | | | | |
| 44 | " 4 | e _N | 06 | 42.6 | 3 | | | | Small short period waves. | | |
| | | e _E | | 45.2 | 3 | | | | | | |
| | | e _Z | | 45.3 | 3 | | | | | | |
| 45 | " 6 | F | 07 | 00 | | | | | | | |
| | | e _N | 09 | 28.2 | | | | | | | |
| 46 | " 6 | eL _N | | 35.2 | | | | | | | |
| | | F | 09 | 45 | | | | | | | |
| | | e _N | 14 | 38.2 | | | | | | | |
| | | eL | | 43.0 | 20 | | | | | | |
| 47 | " 8 | M _N | | 44 | 43 | 15 | 0.5 | | 0.5 | | |
| | | M _E | | 44 | 52 | 16 | | | | | |
| | | F | 15 | 20 | | | | | | | |
| | | e? _E | 15 | 38.4 | | | | | | | |
| | | e _N | | 43.5 | | | | | | | |
| | | M _N | | 45 | 06 | 13 | 0.3 | | | | |
| 48 | " 11 | M _E | | 49 | 27 | 13? | | 0.2 | | | |
| | | F | 16 | 00 | | | | | | | |
| | | e _E | 17 | 01.1 | | | | | | | |
| | | e _N | | 05.9 | | | | | | | |
| | | eL | | 08.9 | 10 | | | | | | |
| | | M _E | | 11 | 27 | 15 | | 0.2 | | | |
| M _N | | 12 | 08 | 16 | 0.3 | | | | | | |
| F | 17 | 30 | | | | | | | | | |

(Continued on next sheet)

No. 3 (continued)

1936 March.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i>) | | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|------------------|-------|----------------------------|------|----|----|-----------|-------------|-------------|-------------|-------------------------|----------|
| | | | h. | m. | s. | | | A_N mm | A_E mm | A_Z mm | | |
| 49 | 1936 March 14 | eE | 09 | 08.3 | | 4 | | | | | | |
| | | eN | | 08.5 | | 4 | | | | | | |
| | | eL | | 18.2 | | 14 | | | | | | |
| | | MN | | 20 | 47 | | 13 | 0.2 | | | | |
| | | ME | | 21 | 14 | | 14 | | 0.2 | | | |
| 50 | " 17 | F | 09 | 50 | | | | | | | | |
| | | iE | 11 | 15 | 26 | 4 | | +1.6 | | | | |
| | | iN | | 15 | 32 | 4 | -0.5 | | | | | |
| | | iN | | 17 | 06 | 5 | +1.2 | | | | | |
| | | iE | | 17 | 07 | 5 | | +1.3 | | | | |
| 51 | " 18 | iE | | 18 | 08 | 5 | | -0.8 | | | | |
| | | F | 11 | 25 | | | | | | | | |
| | | ePZ | 11 | 53 | 52 | | | | | | 2780 (25°0) | |
| | | eNE | | 53 | 55 | | | | | | | |
| | | iNE | | 54 | 05 | 5 | -0.7 | -1.2 | | | | |
| | | mN | | 55 | 11 | 5 | 0.9 | | | | | |
| | | iSE | | 58 | 19 | 6 | | -1.3 | | | | |
| | | iSN | | 58 | 24 | 6 | -1.5 | | | | | |
| | | mN | | 58 | 49 | 7 | 1.3 | | | | | |
| | | iE | | 59 | 32 | 6 | | -2.0 | | | | |
| | | eL | 12 | 01.6 | | | | | | | | |
| | | 52 | " 18 | MN | | 05 | 49 | 8 | 0.5 | | | |
| F | 12 | | | 45 | | | | | | | | |
| eE | 13 | | | 54 | 30 | | | | | | | |
| iE | | | | 57 | 16 | 5 | | -1.7 | | | | |
| iN | | | | 57 | 46 | 4 | +0.8 | | | | | |
| iE | 14 | | | 01 | 27 | 5 | | +2.0 | | | | |
| 53 | " 22 | iN | | 02 | 18 | 5 | -1.8 | | | | | |
| | | iE | | 02 | 24 | 5 | | -2.0 | | | | |
| | | F | 14 | 20 | | | | | | | | |
| | | ePNE | 12 | 21 | 35 | 3? | | | | | 2800 (25°2) | |
| | | eZ | | 21 | 43 | 3 | | | | | | |
| | | iN | | 21 | 44 | 5 | +3.1 | | | | | |
| | | iNE | | 22 | 17 | 5 | +2.0 | -2.3 | | | | |
| | | iSN | | 26 | 04 | 7 | +3.5 | | | | | |
| | | iE | | 26 | 07 | 7 | | -3.8 | | | | |
| | | iN | | 26 | 12 | 7 | -5.0 | | | | | |
| 54 | " 25 | ME | | 26 | 18 | 12 | | 6.5 | | | | |
| | | eL | | 28.2 | | 20 | | | | | | |
| | | ME1 | | 32 | 13 | 13 | | 11.5 | | | | |
| | | MN | | 31 | 27 | 10 | 5.8 | | | | | |
| | | MZ | | 32 | 30 | 10 | | | 0.2 | | | |
| | | ME2 | | 33 | 09 | 10 | | 16.8 | | | | |
| | | F | 13 | 30 | | | | | | | | |
| | | eN | 02 | 13.7 | | | | | | | | |
| 54 | " 25 | eL | | 15.9 | | 18 | | | | | | |
| | | MN | | 18 | 21 | 13 | 0.4 | | | | Masked by micro-seisms. | |
| | | ME | | 18 | 39 | 13 | | 0.4 | | | | |
| | | F | 02 | 35 | | | | | | | | |

 WM. O'LEARY, S. J.
 Director.
 1936, April 1.

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) | 218 | 7.9 | 3.8 | 0.016 |
| A ^N (3) | 95 | 11.6 | 2.5 | 0.018 |
| A ^E (1) | 227 | 8.4 | 3.7 | 0.018 |
| A ^E (3) | 82 | 12.1 | 3.6 | 0.025 |
| A ^Z (2) | 63 | 5.1 | 3.7 | 0.050 |

| No. | Date | Phase | Time (Greenwich) | | | Per | Amplitude. | | | Δ km. | Remarks. |
|-----|-----------------|-------------------|------------------|------|------|-----|----------------------|----------------------|----------------------|-----------------|---|
| | | | h. | m. | s. | | A _N mm | A _E mm | A _Z mm | | |
| 55 | 1936 April 1 | ePZ | 02 | 17 | 30 | 3 | | | | 4855 (43.7) | |
| | | ePNE | | 17 | 33 | 3 | | | | | |
| | | iPZ | | 17 | 36 | 4 | | | -1.0 | | |
| | | iPNE | | 17 | 38 | 4 | +2.4 | -1.6 | | | |
| | | mNE | | 17 | 58 | 11 | 4.8 | 4.3 | | | |
| | | iSNE | | 24 | 07 | 10 | -26.5 | +46.2 | | | |
| | | iE | | 27 | 20 | 10 | | +29.6 | | | |
| | | iN | | 27 | 28 | 10 | +34.7 | | | | |
| | | mE | | 27 | 40 | 11 | | 42.9 | | | |
| | | eLZ | | 32 | .3 | 29 | | | | | |
| | | LN | | 32 | .7 | 24 | | | | | |
| | | ME | | 35 | 48 | 23 | | 33.0 | | | |
| | | MZ ₁ | | 36 | 01 | 23 | | | 2.2 | | |
| | | MN | | 37 | 09 | 20 | 46.0 | | | | |
| | | MZ ₂ | | 37 | 53 | 22 | | | 4.2 | | |
| | | eW ₂ | | 04 | 50.8 | 20? | | | | | |
| | | 56 | " 1 | ME | 05 | 05 | 24 | 24 | 0.2 | | |
| MN | 06 | | | 06 | 08 | 25 | 0.3 | | | | |
| F | 06 | | | 00 | | | | | | | |
| e | 20 | | | 07.2 | 7 | | | | | | |
| eL | | | | 12.0 | 21 | | | | | | |
| MN | | | | 13 | 55 | 15 | 0.5 | | | | |
| ME | | | | 15 | 15 | 12 | | 2.2 | | | |
| 57 | " 1 | F | Lost in No. 57 | | | | | | | | |
| | | iPNE | 20 | 19 | 05 | 3 | +1.3 | -1.2 | | 4735 (42.6) | |
| | | iPZ | | 19 | 06 | 3 | | | -0.5 | | |
| | | iSN | | 25 | 35 | 7 | -1.1 | | | | |
| | | iSE | | 25 | 40 | 7 | | -3.1 | | | |
| | | iE | | 28 | 50 | 6 | | -3.3 | | | |
| | | mN | | 29 | 05 | 7 | 2.1 | | | | |
| | | eL | | 37 | .1 | 24 | | | | | |
| | | ME | | 41 | 10 | 13 | | 1.3 | | | |
| | | MN | | 41 | 48 | 12 | 1.2 | | | | |
| | | F | | 23 | 00 | | | | | | |
| 58 | " 2 | e(P) _N | 06 | 23 | 06 | 5 | | | | | Preliminaries obscured by micro-seisms. |
| | | iN | | 24 | 05 | 5 | -1.0 | | | | |
| | | iSN | | 28 | 12 | 10 | -3.8 | | | | |
| | | iSE | | 28 | 14 | 7 | | -2.0 | | | |
| | | iE | | 29 | 49 | 9 | | | | | |
| | | iE | | 30 | 50 | 9 | | | | | |
| | | mE | | 31 | 20 | 10 | | 9.0 | | | |
| | | eLE | | 32 | .3 | 24 | | | | | |
| | | eLN | | 33 | .2 | 21 | | | | | |
| | | MZ | | 34 | 08 | 21 | | | 0.4 | | |
| | | MN | | 35 | 20 | 14 | 8.2 | | | | |
| | | ME | | 36 | 28 | 12 | | 19.3 | | | |
| | | F | | 07 | 40 | | | | | | |

(Continued on next sheet)

No. 4 (continued)

1936, April.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i> | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-------------------------------|-----------------|--|--------------------------|-------|-----|-----------|-------------|-------------|----------------------------------|-----------------|----------|
| | | | h. | m. | s. | | A_N mm | A_E mm | A_Z mm | | |
| 59 | 1936 April 7 | e _E | 01 | 45.3 | 5 | | | | | | |
| | | e _L | | 51.2 | 19 | | | | | | |
| | | MN | | 52 50 | 14 | 0.8 | | | | | |
| | | ME | | 53 03 | 16 | | 0.3 | | | | |
| 60 | " 9 | F | 02 | 15 | | | | | | | |
| | | e _N | 07 | 23.0 | 4 | | | | | | |
| | | e _L | | 28.3 | 16 | | | | | | |
| | | ME | | 29 44 | 16 | | 0.3 | | | | |
| 61 | " 9 | MN | | 30 07 | 13 | 0.5 | | | | | |
| | | F | 07 | 50 | | | | | | | |
| | | e(P) _N | 16 | 07 36 | 4 | | | | | | |
| | | e _Z | | 07 40 | 4 | | | | | | |
| 62 | " 12 | i _{SE} | | 12 13 | 7 | | | -1.6 | | | |
| | | i _{SN} | | 12 17 | 7 | +3.0 | | | | | |
| | | m _N | | 12 34 | 8 | 2.8 | | | | | |
| | | m _E | | 12 39 | 7 | | | 3.6 | | | |
| | | m _E | | 13 42 | 7 | | | 2.6 | | | |
| | | m _N | | 14 00 | 8 | 2.5 | | | | | |
| | | i _E | | 16 31 | 7 | | | +2.3 | | | |
| | | i _N | | 17 03 | 7 | -4.1 | | | | | |
| | | e _L _N | | 18.2 | 24 | | | | | | |
| | | m _N | | 18 51 | 8 | 4.3 | | | | | |
| | | ME | | 19 52 | 11 | | | 3.0 | | | |
| | | MN | | 21 31 | 10 | 2.8 | | | | | |
| | | F | 17 | 25 | | | | | | | |
| | | e _P _N | 20 | 59 10 | 4 | | | | | 4800 | |
| | | e _P _E _Z | | 59 12 | 7 | | | | | (43.2) | |
| | | i _P _N | | 59 13 | 5 | +1.5 | | | | | |
| e _N | 21 | 00 52 | 13 | | | | | | | | |
| i _{SN} | | 05 44 | 13 | +8.3 | | | | | | | |
| i _{SE} | | 05 46 | 13 | | | -4.5 | | | | | |
| e _N | | 08 50 | 11 | | | | | | | | |
| i _{NE} | | 09 07 | 8 | -15.8 | | +5.0 | | | Very striking group of waves. | | |
| e _L | | 13.9 | 28 | | | | | | | | |
| MN | | 19 03 | 14 | 9.0 | | | | | | | |
| ME | | 19 40 | 13 | | | 9.8 | | | | | |
| MZ | | 19 43 | 13 | | | | 0.9 | | | | |
| F | 22 | 45 | | | | | | | | | |
| 63 | " 19 | i _P _N | 05 | 12 55 | 7 | +3.0 | | | | 2735 | |
| | | i _{NE} _Z | | 13 03 | 7 | -12.4 | -1.5 | +0.3 | | (24.6) | |
| | | m _{NE} | | 13 30 | 6 | 8.2 | 2.8 | | | | |
| | | ME | | 13 42 | 6 | | 3.9 | | | | |
| | | m _N | | 13 47 | 6 | 11.1 | | | | | |
| | | i _{SN} | | 17 20 | 8 | +22.2 | | | | | |
| | | i _{SE} | | 17 22 | 8 | | | +8.3 | | | |
| | | i _{NE} | | 17 48 | 11 | -75.5 | -28.3 | | | | |
| | | ME | | 18 30 | 8 | | 31.3 | | | | |
| | | i _N | | 19 07 | 9 | +56.4 | | | | | |
| | | i _E | | 19 15 | 10 | | -47.0 | | | | |
| | | i _E | | 20 02 | 10 | | +54.6 | | | | |
| | | i _N | | 20 05 | 10 | +40.5 | | | | | |
| | | i _E | | 20 45 | 11 | | >-68.5 | | | | |
| | | i _E | | 21 59 | 11 | | +29.0 | | | | |
| | | ME | | 22 09 | 11 | | 44.3 | | | | |
| | | i _N | | 22 59 | 10 | -33.2 | | | | | |
| | | ME | | 24 05 | 11 | | >50 | | | | |
| i _N | | 24 48 | 11 | -48.2 | | | | | | | |
| MZ | | 25 03 | 12 | | | | 1.0 | | | | |
| MN | | 25 34 | 11 | 57.5 | | | | | | | |
| ME ₂ | | 33 26 | 11 | | >67 | | | | | | |
| e _W ₂ ? | 08 | 03.6 | 27? | | | | | | | | |

F 08 35

No. 4 (continued)

1936, April.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time (Greenwich) | | | Per l | Amplitude. | | | Δ km. | Remarks. |
|-----------------------------|------------------|--------------------|---------------------|------|----|----------|----------------------|----------------------|----------------------|---|----------|
| | | | h. | m. | s. | | A _N mm | A _E mm | A _Z mm | | |
| 64 | 1936 April 19 | iN | 09 | 24 | 35 | 8 | +3.2 | | | Obscured by micro-seisms. | |
| | | eL | | 37.0 | | 30 | | | | | |
| | | ME | | 47 | 25 | 22 | | 1.2 | | | |
| | | MN | | 47 | 47 | 16 | 1.2 | | | | |
| 65 | " 24 | F | 10 | 15 | | | | | | | |
| | | eP _{NE} | 12 | 54 | 19 | 4 | | | | | |
| | | eN | 13 | 00 | 37 | 6 | | | | | |
| | | mNE | | 01 | 39 | 6 | 2.0 | 1.1 | | | |
| 66 | " 26 | mN | | 02 | 30 | 6 | 2.2 | | | 2610 (23°5) | |
| | | eL | | 05.0 | | 16 | | | | | |
| | | F | 13 | 25 | | | | | | | |
| | | iP _N | 08 | 49 | 52 | 5 | +1.0 | | | | |
| 67 | " 27 | iS _N | | 54 | 07 | 6 | -1.2 | | | | |
| | | iN _E | | 54 | 26 | 6 | -1.8 | -2.1 | | | |
| | | eL | | 56.9 | | 29 | | | | | |
| | | ME | 09 | 00 | 49 | 13 | | 2.7 | | | |
| 68 | " 28 | MZ | | 01 | 51 | 15 | | | 0.1 | 2735 (24°6) | |
| | | MN | | 02 | 07 | 15 | 2.5 | | | | |
| | | F | 09 | 40 | | | | | | | |
| | | eN | 00 | 37.5 | | | | | | | |
| 69 | " 28 | MN | | 45 | 20 | 22 | 0.3 | | | | |
| | | F | 01 | 00 | | | | | | | |
| | | eP _{NE} | 05 | 44 | 32 | 4 | | | | | |
| | | eP _Z | | 44 | 33 | 4 | | | | | |
| 70 | " 29 | iP _{NE} | | 44 | 34 | 5 | +1.5 | +0.6 | | Phases very hard to identify. May be more than one shock. | |
| | | iS _{NE} | | 48 | 56 | 8 | +3.0 | -3.1 | | | |
| | | iN | | 49 | 06 | 9 | -5.5 | | | | |
| | | iE | | 49 | 23 | 7 | | -2.8 | | | |
| 53a | March 21 | eL | | 51.0 | | 17 | | | | 2835 (25°5) | |
| | | MN | | 53 | 31 | 14 | 5.5 | | | | |
| | | ME | | 53 | 43 | 14 | | 7.4 | | | |
| | | MZ | 06 | 00 | 57 | 9 | | | 0.2 | | |
| 53a | March 21 | F | 07 | 20 | | | | | | | |
| | | e?NEZ | 13 | 42 | 14 | 2 | | | | | |
| | | eZ | | 42 | 52 | 2 | | | | | |
| | | eNE | | 43 | 02 | 2 | | | | | |
| 53a | March 21 | iN | | 48 | 01 | 3 | +0.5 | | | | |
| | | eE | | 48 | 04 | 5 | | | | | |
| | | iE | | 49 | 55 | 5 | | -2.7 | | | |
| | | MN | | 53 | 11 | 7 | 6.6 | | | | |
| 53a | March 21 | MZ | | 53 | 36 | 4 | | | 1.3 | | |
| | | ME | | 54 | 24 | 8 | | 6.4 | | | |
| | | F | 14 | 30 | | | | | | | |
| | | eP _{NE} | 08 | 19 | 22 | 4 | 0.5 | 0.2 | | | |
| 53a | March 21 | iS _N | | 23 | 53 | 5 | +1.5 | | | | |
| | | iN | | 24 | 10 | 6 | +0.7 | | | | |
| | | SR ₁ ?E | | 24 | 37 | 10 | | 0.7 | | | |
| | | eL | | 25.8 | | 16 | | | | | |
| 53a | March 21 | ME | | 26 | 13 | 12 | | 0.6 | | | |
| | | MN | | 26 | 32 | 16 | 0.4 | | | | |
| | | F | 09 | 15 | | | | | | | |
| | | -----o00----- | | | | | | | | | |
| Addition to March Bulletin. | | | | | | | | | | | |
| 53a | March 21 | e? | 00 | 06.2 | | | | | | | |
| | | eL | | 09.0 | | 27 | | | | | |
| | | ME | | 13 | 19 | 17 | | 0.5 | | | |
| | | MN | | 13 | 36 | 12 | 0.5 | | | | |
| 53a | March 21 | F | 00 | 25 | | | | | | | |

 WM. O'LEARY, S. J.
 Director.
 1936, May 2nd.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 32^{\circ} 49' 49''$ 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) | 218 | 7.7 | 3.5 | 0.017 |
| (3) | 86 | 11.9 | 3.3 | 0.014 |
| A^E (1) | 218 | 8.5 | 3.7 | 0.018 |
| (3) | 80 | 13.4 | 3.5 | 0.020 |
| A^Z (2) | 85 | 5.2 | 3.7 | 0.043 |

| No. | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|---------------|----------|---------------------|----|----|-----------|-------------|-------------|-------------|-----------------|----------|
| | | | h. | m. | s. | | A_N mm | A_E mm | A_Z mm | | |
| 71 | 1936 May 1 | eE | 00 | 05 | 2 | 4 | | | | | |
| | | eN | | 10 | 2 | 8 | | | | | |
| | | eL | | 12 | 3 | 23 | | | | | |
| | | MN | | 14 | 19 | 15 | 0.5 | | | | |
| | | ME | | 16 | 17 | 14 | | 0.2 | | | |
| 72 | " 5 | F | 00 | 40 | | | | | | | |
| | | e(P)N | 19 | 50 | 29 | 7 | | | | | |
| | | eN | | 54 | 31 | 6 | 0.6 | | | | |
| | | eE | | 58 | 18 | 7 | | 0.8 | | | |
| | | eN | | 59 | 12 | 9 | 0.6 | | | | |
| | | eLE | 20 | 00 | 4 | 17 | | | | | |
| | | eLN | | 00 | 9 | 18 | | | | | |
| | | ME1 | | 02 | 09 | 15 | | 2.0 | | | |
| | | MN | | 05 | 31 | 12 | 2.0 | | | | |
| | | ME2 | | 05 | 55 | 10 | | 3.3 | | | |
| 73 | " 8 | F | 20 | 55 | | | | | | | |
| | | eN | 05 | 56 | 0 | | | | | | |
| | | ME | 06 | 00 | 39 | 10 | | 0.2 | | | |
| 74 | " 8 | MN | | 00 | 44 | 10 | 0.3 | | | | |
| | | F | 06 | 10 | | | | | | | |
| 75 | " 9 | iEZ | 09 | 19 | 02 | 3 | | -0.5 | -0.2 | | |
| | | iNE | | 24 | 58 | 3 | -0.7 | -2.3 | | | |
| | | iN | | 27 | 50 | 4 | -1.1 | | | | |
| | | eE | | 28 | 23 | 6 | | | | | |
| | | iN | | 34 | 19 | 6 | -1.7 | | | | |
| | | iN | | 35 | 03 | 6 | +1.9 | | | | |
| | | mN | | 35 | 36 | 6 | 2.1 | | | | |
| 76 | " 10 | F | 10 | 00 | | | | | | | |
| | | eN | 06 | 58 | 3 | | | | | | |
| | | eL | 07 | 00 | 4 | 16 | | | | | |
| | | MN | | 02 | 05 | 13 | 0.4 | | | | |
| 77 | " 11 | ME | | 02 | 55 | 12 | | 0.2 | | | |
| | | F | 07 | 20 | | | | | | | |
| | | eL | 20 | 59 | 2 | 15 | | | | | |
| 77 | " 11 | MN | 21 | 00 | 27 | 12 | 0.3 | | | | |
| | | F | 21 | 10 | | | | | | | |
| | | ePN | 17 | 33 | 22 | | | | | 3020 | |
| | | iPNZ | | 33 | 25 | 3 | -0.8 | | +0.3 | (279.2) | |
| | | iSN | | 38 | 10 | 7 | -3.4 | | | | |
| | | iN | | 38 | 34 | 17 | +8.0 | | | | |
| | | eL | | 42 | 0 | 33 | | | | | |
| | | ME1 | | 43 | 19 | 18 | | 6.1 | | | |
| | | MN1 | | 43 | 49 | 20 | 6.1 | | | | |
| | | MZ1 | | 44 | 13 | 19 | | | 0.5 | | |
| 77 | " 11 | ME2 | 48 | 00 | 16 | | 6.0 | | | | |
| | | MN2, MZ2 | 48 | 48 | 15 | 5.0 | | 0.4 | | | |
| | | F | 19 | 20 | | | | | | | |

(Continued on next sheet)

5 (continued)

1936, May.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i> | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|----------------|------------------|--------------------------|-------|----|-----------|-------------|-------------|-------------|-------------------|--|
| | | | h. | m. | s. | | A_N mm | A_E mm | A_Z mm | | |
| 78 | 1936 May 11 | eN | 20 | 31.0 | | | | | | | |
| | | eL | | 35.2 | 21 | | | | | | |
| | | MN | | 41 00 | 21 | | | | | | |
| | | ME | | 44 55 | 15 | | | 0.3 | | | |
| 79 | " 14 | F | 21 | 10 | | | | | | | |
| | | e [?] E | 05 | 04.2 | | | | | | | |
| | | eE | | 05.1 | 5 | | | | | | |
| | | eN | | 10.7 | 8 | | | | | | |
| | | eLN | | 11.8 | 20 | | | | | | |
| | | ME | | 13 43 | 17 | | | 0.3 | | | |
| 80 | " 16 | F | 05 | 35 | | | | | | | |
| | | eN | 07 | 27 17 | | | | | | | |
| | | iN | | 27 26 | 7 | +3.5 | | | | | |
| | | iE | | 27 31 | 5 | | | -1.0 | | | |
| | | eN | | 36.0 | 11 | | | | | | |
| | | eL | | 43.9 | 27 | | | | | | |
| | | ME | | 49 14 | 22 | | | 0.3 | | | |
| | | MN | | 55 49 | 18 | | 0.3 | | | | |
| 81 | " 18 | F | 08 | 20 | | | | | | | |
| | | eE | 20 | 33.1 | 5 | | | | | | |
| | | eN | | 34.1 | 5 | | | | | | |
| 82 | " 20 | F | 20 | 45 | | | | | | | |
| | | eL | 02 | 56.1 | 15 | | | | | | |
| | | MN | 03 | 00 32 | 15 | | 0.4 | | | | |
| | | ME | | 01 02 | 14 | | | 0.5 | | | |
| 83 | " 20 | F | Lost in No. 83 | | | | | | | | |
| | | iPNEZ | 03 | 10 46 | 4 | | | | | 2710 (24°4) | iP in minute mark. |
| | | iZ | | 10 48 | 4 | | | +1.2 | | | |
| | | iNE | | 10 52 | 4 | | -4.2 | -3.2 | | | |
| | | iE | | 11 01 | 4 | | | -3.0 | | | |
| | | iNE | | 11 17 | 5 | | +4.0 | +2.7 | | | |
| | | iNE | | 11 44 | 5 | | -7.0 | -3.9 | | | |
| | | iSNE | | 15 09 | 7 | | -7.6 | +7.0 | | | |
| | | iE | | 15 16 | 7 | | | -9.2 | | | |
| | | iN | | 15 23 | 10 | | -40.5 | | | | |
| | | ME | | 15 26 | 11 | | | 16.0 | | | Most outstanding phase. |
| | | mZ | | 15 30 | 14 | | | | 0.6 | | |
| | | iMN | | 18 13 | 13 | | +23.0 | | | | |
| | | MN | | 19 49 | 14 | | 46.5 | | | | |
| | | ME | | 20 04 | 14 | | | 47+ | | | |
| MZ | | 20 09 | 12 | | | | 1.0 | | | | |
| 84 | " 21 | F | 06 | 45 | | | | | | | |
| | | e(S)N | 03 | 00.9 | 14 | | | | | | |
| | | eL | | 05.8 | 25 | | | | | | |
| | | ME | | 06 00 | 20 | | | 0.9 | | | Early phases mask- ed by microseisms. |
| 85 | " 22 | MN | | 06 29 | 20 | | 1.0 | | | | |
| | | F | 03 | 35 | | | | | | | |
| | | PNE | 23 | 25 43 | | | | | | 2355 (21°2) | P in minute mark. |
| | | iNE | | 25 52 | 4 | | +1.4 | +2.7 | | | |
| | | iSE | | 29 37 | 5 | | | -3.6 | | | |
| | | iSN | | 29 40 | 7 | | +3.5 | | | | |
| | | eL | | 31.4 | 23 | | | | | | |
| | | ME | | 32 28 | 17 | | | 2.0 | | | |
| 86 | " 23 | MN | | 32 57 | 15 | | 3.3 | | | | |
| | | F | 00 | 10 | | | | | | | |
| | | eN | 15 | 38.8 | | | | | | | |
| | | mN | | 40 36 | 8 | | 1.1 | | | A few small waves | |

(Continued on next sheet.)

5 (continued)

1936, May.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i> | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----------|----------------|-----------------|--------------------------|------|----|-----------|-------------|-------------|-------------------------|-----------------|----------|
| | | | h. | m. | s. | | A_N mm | A_E mm | A_Z mm | | |
| 87 | 1936 May 23 | eE | 19 | 24.0 | | | | | Masked by micro-seisms. | | |
| | | eE | | 26.9 | | | | | | | |
| | | MN | | 27 | 53 | 10 | 0.4 | | | | |
| | | ME | | 29 | 48 | 12 | | 0.6 | | | |
| 88 | " 25 | F | 19 | 40 | | | | | | | |
| | | (P)NE | 03 | 14 | 00 | 5 | -1.0 | -0.7 | | | |
| | | e(S)E | | 17 | 48 | 10? | | | | | |
| | | eL | | 19 | 3 | 20 | | | | | |
| | | ME | | 22 | 48 | 13 | | 6.5 | | | |
| | | MN | | 25 | 18 | 12 | 3.6 | | | | |
| 89 | " 25 | F | 04 | 05 | | | | | | | |
| | | e | 13 | 42.0 | | | | | | | |
| | | eL | | 46.2 | 18 | | | | | | |
| | | MN | | 48 | 15 | 12 | 0.4 | | | | |
| 90 | " 26 | ME | | 48 | 57 | 12 | | 0.7 | | | |
| | | F | 14 | 00 | | | | | | | |
| | | eE | 12 | 56.0 | | | | | | | |
| | | eN | 13 | 00.3 | 8 | | | | | | |
| 91 | " 27 | MN | | 03 | 35 | 15 | 0.6 | | | | |
| | | ME | | 05 | 00 | 15 | | 0.2 | | | |
| | | F | 13 | 15 | | | | | | | |
| | | eEZ | 06 | 32.2 | | | | | | | |
| | | eN | | 35.8 | | | | | | | |
| | | eNE | | 42 | 39 | 5 | 0.4 | 0.7 | | | |
| | | iE | | 43 | 00 | 9 | | -4.8 | | | |
| | | iNE | | 44 | 03 | 7 | +3.2 | -3.1 | | | |
| 92 | " 28 | eL | 07 | 01.0 | 32 | | | | | | |
| | | ME ₁ | | 08 | 53 | 30 | | 0.5 | | | |
| | | MN | | 10 | 17 | 23 | 0.8 | | | | |
| | | ME ₂ | | 16 | 00 | 20 | | 1.2 | | | |
| | | F | 08 | 30 | | | | | | | |
| | | eNE | 19 | 23.1 | | | | | | | |
| | | eE | | 23.5 | 13 | | | | | | |
| | | eLN | | 33.7 | 33 | | | | | | |
| ADDITION. | May 19 | eLE | | 38.8 | 32 | | | | | | |
| | | MN | | 43 | 51 | 20 | 0.3 | | | | |
| | | ME | | 46 | 46 | 18 | | 0.6 | | | |
| | | F | 20 | 45 | | | | | | | |
| | | -----000----- | | | | | | | | | |
| | | eE | 07 | 35 | 50 | 3 | -0.8 | | | | |
| | | eE | | 35 | 53 | 3 | | -1.4 | | | |
| iE | | 36 | 00 | 3 | | | +0.2 | | | | |
| ADDITION. | " 19 | MN | | 39 | 12 | 5 | | | | | |
| | | F | 08 | 00 | | | | | | | |
| | | ePNEZ | 20 | 56 | 58 | 2 | +0.5 | -0.7 | | -0.3 | |
| | | iNEZ | | 58 | 19 | 3 | +1.1 | -1.4 | | -0.1 | |
| | | i(S)E | 21 | 02 | 27 | 4 | | +1.7 | | | |
| | | eN | | 04 | 37 | 3 | -2.1 | | | | |
| | | eE | | 04 | 56 | 3 | | +1.4 | | | |
| | | ME | | 07 | 28 | 3 | | | | 0.5 | |
| ADDITION. | " 19 | MN | | 10 | 01 | 6 | 5.8 | | | | |
| | | ME | | 11 | 30 | 7 | | 5.1 | | | |
| | | ME | | 14 | 29 | 11 | | 3.3 | | | |
| | | F | 22 | 20 | | | | | | | |

 WM. O'LEARY, S.J.
 Director.
 1936, June 3rd.

Riverview College Observatory.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

 $\phi = 33^{\circ} 46' 49''$ 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. Mainska Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

| | V | T_0 | $\epsilon:1$ | $\frac{P}{T_0^2}$ |
|--------------------|-----|-------|--------------|-------------------|
| A ¹ (1) | 211 | 7.8 | 3.5 | 0.014 |
| (3) | 95 | 11.7 | 5.8 | 0.012 |
| A ² (1) | 224 | 8.3 | 3.9 | 0.016 |
| (3) | 80 | 13.1 | 3.3 | 0.020 |
| A ³ (2) | 66 | 5.0 | 3.6 | 0.052 |

| No | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|----|----------------|-------|---------------------|----|----|-----------|----------------------|----------------------|------------------------------|-----------------|----------|
| | | | h. | m. | s. | | A _N mm | A _E mm | A _Z mm | | |
| 33 | 1936 June 1 | eE | 11 | 30 | .7 | | | | 8055 (7295) | In minute mark. | |
| | | eN | | 31 | .3 | | | | | | |
| | | iN | | 34 | 35 | 5 | +0.7 | | | | |
| | | iNE | | 36 | 45 | 7 | | | | | |
| 34 | " 5 | F | 11 | 50 | | | | | 8055 (7295) | | |
| | | iPNE | 14 | 45 | 14 | 3 | +0.5 | -0.3 | | | |
| | | iSNE | | 54 | 43 | 4 | +1.3 | -1.3 | | | |
| | | MN | | 59 | 39 | 8 | 1.3 | | | | |
| 35 | " 8 | F | 15 | 20 | | | | | | | |
| | | eNE | 17 | 04 | 18 | | | | | | |
| | | iN | | 08 | 00 | 3 | -0.3 | | | | |
| | | MN | | 08 | 31 | 7 | 0.5 | | | | |
| 36 | " 9 | MN | | 08 | 33 | 6 | | 0.6 | | | |
| | | F | 17 | 15 | | | | | | | |
| | | eNE | 16 | 54 | .6 | 3 | | | | | |
| | | eN | 17 | 05 | .9 | 6 | | | | | |
| 37 | " 10 | eLE | | 11 | .0 | 25 | | | 2890 (2690) | | |
| | | MN | | 15 | 00 | 18 | | 0.2 | | | |
| | | F | 17 | 35 | | | | | | | |
| | | iPNZ | 08 | 29 | 05 | 3 | -0.7 | | | | +0.3 |
| | | iN | | 29 | 44 | 5 | +3.8 | | | | |
| | | iNZ | | 30 | 04 | 5 | 10.8 | | | | -1.2 |
| | | iSE | | 33 | 39 | 6 | | +9.8 | | | |
| | | iSN | | 33 | 41 | 6 | -10.0 | | | | |
| | | iNE | | 34 | 13 | 7 | -14.6 | -7.7 | | | |
| | | iN | | 34 | 52 | 8 | -9.6 | | | | |
| 38 | " 11 | iE | | 35 | 10 | 7 | | +9.5 | 2.3 | | |
| | | ME | | 36 | 52 | 8 | | 40.4 | | | |
| | | MZ | | 37 | 12 | 7 | | | | | |
| | | MN | | 37 | 18 | 9 | 18.3 | | | | |
| | | F | 10 | 35 | | | | | | | |
| | | eN | 13 | 04 | .9 | 22 | | | | | |
| | | eL | | 09 | .2 | | | | | | |
| | | ME | | 11 | 53 | 13 | | 0.3 | | | |
| | | MN | | 12 | 55 | 10 | 0.3 | | | | |
| | | F | 13 | 35 | | | | | | | |
| 39 | " 13 | e? | 09 | 06 | .9 | | | | Obscured by micro seisms. | | |
| | | eNE | | 09 | .8 | | | | | | |
| | | F | 09 | 25 | | | | | | | |

(Continued on next sheet)

6 (continued)

1936, 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 _s mm | A _E mm | A _Z mm | | |
| 100 | 1936 June 16 | eN | 00 | 45.0 | | | | | | Earlier phases obscured by microseisms. | |
| | | eL | | 48.7 | 17 | | | | | | |
| | | MN | | 52 21 | 11 | 1.5 | | | | | |
| | | ME | | 55 18 | 17 | | 0.8 | | | | |
| 101 | " 22 | F | 01 | 40 | | | | | | | |
| | | e | 10 | 57 43 | | | | | | | |
| | | iN | 11 | 00 39 | 8 | +1.3 | | | | | |
| | | eL | | 03.8 | 13 | | | | | | |
| | | MNE | | 05 12 | 12 | 0.3 | 0.2 | | | | |
| 102 | " 22 | F | 11 | 20 | | | | | | A few small waves. | |
| | | eNE | 22 | 16 43 | 7 | | | | | | |
| | | eL | | 19.8 | 17 | | | 0.3 | | | |
| | | ME | | 20 41 | 13 | | | | | | |
| | | MN | | 21 15 | 12 | 0.3 | | | | | |
| 103 | " 23 | F | 22 | 45 | | | | | | | |
| | | eNE | 01 | 38.8 | 3 | | | | | | |
| 104 | " 28 | F | 01 | 50 | | | | | | | |
| | | eL | 06 | 57.7 | 17 | | | | | | |
| 105 | " 30 | MN | | 58 55 | 10 | 0.4 | | | 9230 (83°0) | | |
| | | ME | | 59 49 | 10 | | 0.5 | | | | |
| | | F | 07 | 10 | | | | | | | |
| | | iPZ | 15 | 19 10 | 4 | -1.7 | -1.0 | +0.7 | | | |
| | | iPNE | | 19 17 | 5 | +1.6 | | | | | |
| 106 | " 30 | iSN | | 29 37 | 6 | | | +4.0 | | | |
| | | iE | | 30 10 | 7 | | | | | | |
| | | eL | | 41.5 | 50 | | | | | | |
| | | MN | | 48 57 | 27 | 3.1 | | | | | |
| | | ME | | 52 00 | 18 | | 2.1 | | | | |
| | | F | 18 | 10 | | | | | | | |

WM. O'LEARY, S. J.
 Director.
 1936, July 3.

1936, July.

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. Manka Conical Pendulum Seismometer (450 kilo.) NS, EW)
4. Galitzin Aperiodic Seismometer, with galvanometer registration (NS, EW, Vert.)

| | V | T_a | $e:l$ | $\frac{r}{T_0^2}$ |
|----------|-----|-------|-------|-------------------|
| $A^N(1)$ | 210 | 7.8 | 3.5 | 0.016 |
| $A^N(3)$ | 92 | 11.8 | 4.9 | 0.014 |
| $A^E(1)$ | 232 | 8.3 | 3.4 | 0.019 |
| $A^E(3)$ | 79 | 13.2 | 3.8 | 0.022 |
| $A^Z(2)$ | 64 | 5.1 | 3.7 | 0.073 |

| No | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks |
|-----|----------------|--------|---------------------|----|-----|-----------|-------------|-------------|-------------|------------------|---------------------------------------|
| | | | | | | | A_N mm | A_E mm | A_Z mm | | |
| 106 | 1936 July 2 | eNE | 19 | 53 | 24 | 3 | | | | | |
| | | eNE | | 53 | 55 | 3 | | | | | |
| | | eNE | | 57 | 26 | 4 | | | | | |
| | | eNE | | 58 | 06 | 4 | | | | | |
| | | MN | | 58 | 44 | 8 | 0.4 | | | | |
| | | ME | | 58 | 48 | 5 | | 0.3 | | | |
| 107 | " 3 | F | 20 | 10 | | | | | | | |
| | | ePNE | 03 | 04 | 10 | | | | | 2790 (25.91) | |
| | | ePZ | | 04 | 11 | | | | | | |
| | | iPNE | | 04 | 11 | 5 | +1.8 | +1.1 | | | |
| | | iSE | | 08 | 38 | 6 | | +1.8 | | | |
| | | iSN | | 08 | 39 | 6 | -2.3 | | | | |
| | | iN | | 08 | 49 | 6 | +4.0 | | | | |
| | | ME | | 09 | 04 | 7 | | | 3.2 | | |
| | | iN | | 09 | 44 | 7 | +3.5 | | | | |
| | | eL | | 11 | 4 | 17 | | | | | |
| | | MN | | 12 | 54 | 17 | 2.3 | | | | |
| 108 | " 5 | ME | | 14 | 10 | 17 | | 2.4 | | | |
| | | F | 04 | 20 | | | | | | | |
| | | e(P)NE | 19 | 03 | 36 | 4 | | | | 3620? (32.6?) | Heavy microseisms present. |
| | | iNE | | 03 | 48 | 5 | +1.6 | -1.0 | | | |
| | | iz | | 03 | 50 | 3 | | | +0.3 | | |
| | | eSNE | | 10 | 12 | | | | | | |
| | | iN | | 10 | 38 | 8 | -5.3 | | | | |
| | | iE | | 10 | 40 | 8 | | +6.0 | | | |
| | | iNE | | 13 | 38 | 8 | -4.1 | +5.5 | | | |
| | | iN | | 13 | 58 | 9 | +7.9 | | | | |
| | | iE | | 14 | 08 | 11 | | -20.0 | | | Very striking phase. |
| eLE | | 19 | 8 | 24 | | | | | | | |
| ME | | 22 | 52 | 23 | | | 5.0 | | | | |
| MN | | 23 | 43 | 21 | 2.5 | | | | | | |
| 109 | " 12 | F | 20 | 55 | | | | | | | |
| | | e? | 02 | 50 | 8 | | | | | | Masked by micro- seisms. |
| | | eL | | 58 | 8 | 20 | | | | | |
| 110 | " 13 | MN | 03 | 02 | 28 | 12 | 0.6 | | | | |
| | | F | 03 | 30 | | | | | | | |
| | | eN | 11 | 26 | 54 | | | | | | Destructive earth- quake in Chile. |
| | | eNE | | 31 | 15 | 7 | | | | | |
| | | mNE | | 31 | 38 | 7 | 1.5 | 0.7 | | | |
| | | eNE | | 37 | 23 | 11 | | | | | |
| | | eNE | | 40 | 31 | 14 | | | | | |
| | | iNE | | 41 | 20 | 9 | -5.9 | +3.5 | | | |
| | | eNE | | 46 | 3 | 40 | | | | | |
| | | ME | | 46 | 37 | 35 | | | 2.6 | | |
| | | MN | | 46 | 44 | 35 | 0.9 | | | | |
| | | mNE | | 47 | 13 | 32 | 2.3 | 3.3 | | | |

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|---------------|-----------------|--------|---------------------|------|----|-----------|----------------------|----------------------|----------------------|-----------------|----------|
| | | | h. | m. | s. | | A _x mm | A _y mm | A _z mm | | |
| 110 (cont) | 1936 July 13 | mNE | 11 | 47 | 45 | 30 | 1.9 | 2.7 | | | |
| | | eLE | | 58.0 | | 43 | | | | | |
| | | eLN | | 58.3 | | 43 | | | | | |
| | | MZ1 | 12 | 03 | 51 | 23 | | | 0.2 | | |
| | | MN1ME1 | | 03 | 55 | 26 | 3.9 | 5.2 | | | |
| | | MN2 | | 08 | 08 | 18 | 5.0 | | | | |
| | | MZ2 | | 08 | 24 | 20 | | | 0.5 | | |
| | | ME2 | | 08 | 31 | | | | 9.0 | | |
| 111 | " 14 | F | 15 | 00 | | | | | | | |
| | | e | 09 | 59.2 | | | | | | | |
| | | eL | 10 | 04.8 | | 15 | | | | | |
| 112 | " 15 | MNE | | 06.2 | | 15 | 0.2 | 0.2 | | | |
| | | F | 10 | 25 | | | | | | | |
| | | eN | 11 | 20.7 | | | | | | | |
| 113 | " 21 | eE | | 25.8 | | | | | | | |
| | | eL | | 26.4 | | 20 | | | | | |
| | | ME | | 29 | 50 | 8 | | 0.7 | | | |
| | | MN | | 31 | 19 | 9 | 1.0 | | | | |
| | | F | 11 | 50 | | | | | | | |
| | | eNE | 00 | 04 | 42 | 3 | | | | | |
| 114 | " 22 | eE | | 08 | 15 | 9 | | 1.0 | | | |
| | | mN | | 08 | 25 | 9 | 1.1 | | | | |
| | | ME | | 08 | 28 | 9 | | 2.3 | | | |
| | | MN | | 12 | 00 | 15 | 0.4 | | | | |
| | | F | 00 | 20 | | | | | | | |
| | | e | 06 | 34.2 | | | | | | | |
| 115 | " 23 | e | | 37.0 | | 9 | | | | | |
| | | eL | | 38.5 | | 17 | | | | | |
| | | MN | | 40 | 48 | 12 | 0.3 | | | | |
| | | ME | | 41 | 18 | 15 | | 0.2 | | | |
| | | F | 06 | 55 | | | | | | | |
| | | eE | 06 | 28 | 13 | 5 | | | | | |
| 116 | " 26 | eN | | 28 | 18 | 5 | | | | | |
| | | eE | | 32 | 03 | 7 | | | | | |
| | | eL | | 38.0 | | 17 | | | | | |
| | | MN | | 39 | 25 | 13 | 0.2 | | | | |
| 117 | " 28 | F | 07 | 00 | | | | | | | |
| | | e?N | 08 | 00.4 | | | | | | | |
| | | eE | | 02.4 | | | | | | | |
| | | eL | | 28.8 | | 25 | | | | | |
| 118 | " 28 | F | 09 | 05 | | | | | | | |
| | | e(P)N | 05 | 24 | 46 | 5 | | | | | |
| | | e(S)N | | 30 | 48 | 11 | | | | | |
| | | eL | | 34.9 | | 23 | | | | | |
| | | ME | | 36 | 38 | 17 | | 8.2 | | | |
| | | MN | | 37 | 18 | 17 | 5.1 | | | | |
| 119 | " 30 | F | 06 | 55 | | | | | | | |
| | | e?N | 07 | 59.0 | | | | | | | |
| | | eNE | 08 | 04 | 04 | 6 | | | | | |
| | | eL | | 10.6 | | 22 | | | | | |
| 119 | " 30 | MN | | 15 | 05 | 11 | 5.5 | | | | |
| | | ME | | 15 | 19 | 12 | | 6.9 | | | |
| | | F | 09 | 25 | | | | | | | |
| | | e | 14 | 15.9 | | | | | | | |
| | | eL | | 22.2 | | 15 | | | | | |
| 119 | " 30 | ME | | 25 | 00 | 15 | | 0.2 | | | |
| | | MN | | 27 | 22 | 13 | 0.2 | | | | |
| | | F | 15 | 05 | | | | | | | |

 Obscured by micro-seisms.
 Shallow long waves
 till 09 05

 WM. O'LEARY, S. J.
 Director.
 1936, August 3rd.



Riverview College Observatory

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

$\phi = 33^{\circ} 40' 49''$ S.

$\lambda = 151^{\circ} 9' 39''$ 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. Mainska 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) | 211 | 7.2 | 3.3 | 0.017 |
| (3) | 90 | 11.9 | 4.0 | 0.013 |
| A ^E (1) | 237 | 8.2 | 4.0 | 0.018 |
| (3) | 99 | 13.1 | 4.2 | 0.024 |
| A ^V (2) | 61 | 5.1 | 3.5 | 0.050 |

| No. | Date | Phase | Time (Greenwich) | | | Per | Amplitude. | | | Δ km. | Remarks. |
|-----|-------------------|-----------------|------------------|----|----|-----|----------------------|----------------------|----------------------|------------------|----------|
| | | | h. | m. | s. | | A _N mm | A _E mm | A _Z mm | | |
| 120 | 1936 August 13 | eNR | 20 | 10 | 24 | 4 | | | | 6290? (5636?) | |
| | | eZ | | 11 | 26 | | | | | | |
| | | iN | | 13 | 22 | 3 | -0.7 | | | | |
| | | eS _N | | 18 | 21 | 8 | | | | | |
| | | eE | | 18 | 26 | 8 | | | | | |
| | | iN | | 18 | 28 | 8 | +1.8 | | | | |
| | | iN | | 21 | 55 | 8 | -1.4 | | | | |
| | | ME | | 22 | 08 | 11 | | 1.1 | | | |
| | | eL | | 27 | .1 | 22 | | | | | |
| | | ME | | 29 | 10 | 18 | | 0.8 | | | |
| | | MN | | 30 | 28 | 14 | 0.9 | | | | |
| F | | 21 | 20 | | | | | | | | |
| 121 | " 14 | e | 04 | 11 | .2 | | | | | | |
| | | MN | | 18 | 24 | 12 | 0.3 | | | | |
| 122 | " 15 | F | 04 | 30 | | | | | | | |
| | | e | 02 | 40 | .8 | | | | | | |
| 123 | " 15 | MN | | 45 | 03 | 12 | 0.3 | | | | |
| | | e | 03 | 10 | | | | | | | |
| 124 | " 16 | e | 05 | 40 | .2 | | | | | | |
| | | eL | | 46 | .0 | 13 | | | | | |
| 124 | " 16 | F | 06 | 00 | | | | | | | |
| | | eNE | 13 | 18 | 10 | 5 | -1.3 | +0.9 | | | |
| | | eZ | | 18 | 11 | | | | | | |
| | | ME | | 21 | 38 | 7 | | -3.2 | | | |
| | | MN | | 21 | 55 | 13 | 1.5 | | | | |
| 125 | " 17 | ME | | 21 | 58 | 13 | | 1.7 | | | |
| | | F | 14 | 00 | | | | | | | |
| | | e(L) | 06 | 31 | .6 | 15 | | | | | |
| | | MN | | 33 | 38 | 13 | 0.3 | | | | |
| | | ME | | 35 | 52 | 12 | | 0.2 | | | |
| 126 | " 17 | F | 06 | 45 | | | | | | | |
| | | e(P) | 14 | 05 | 57 | | | | | 2790? | |
| | | eS _N | | 10 | 25 | 10 | | | | (2531?) | |
| | | eS _E | | 10 | 30 | 12 | | | | | |
| | | iN | | 10 | 42 | 10 | +2.5 | | | | |
| | | MN | | 12 | 19 | 7 | 2.0 | | | | |
| | | eL | | 12 | .7 | 25 | | | | | |
| | | ME | | 15 | 19 | 17 | | 3.7 | | | |
| | | MZ | | 16 | 03 | 19 | | | 0.1 | | |
| | | MN | | 16 | 37 | 17 | 3.9 | | | | |
| | | F | | 15 | 40 | | | | | | |
| 127 | " 17 | eN | 17 | 01 | .4 | | | | | | |
| | | e(S)N | | 05 | .1 | 13 | | | | | |
| | | eL | | 08 | .5 | 23 | | | | | |
| | | ME | | 10 | 24 | 17 | | 0.2 | | | |
| | | MN | | 10 | 53 | 17 | 0.2 | | | | |
| F | | 17 | 30 | | | | | | | | |

(Continued on next sheet)

8 (continued)

1936, August.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|-----------|-------|---------------------|----|----|-----------|----------------------|----------------------|----------------------|-----------------|---|
| | | | | | | | A _N mm | A _E mm | A _Z mm | | |
| | 1936 | | h. | m. | s. | | | | | | |
| 128 | August 22 | ePZ | 07 | 02 | 01 | 2 | | | | 6755 (60°8) | Masked by micro-seisms on NS & EW. |
| | | eNE | | 02 | 05 | 4 | | | | | |
| | | iSNE | | 10 | 25 | 6 | +1.6 | -2.0 | | | |
| | | mN | | 10 | 33 | 6 | 2.2 | | | | |
| | | iNE | | 11 | 52 | 6 | +3.2 | -1.7 | | | |
| | | eL | | 20 | .4 | 27 | | | | | |
| | | ME | | 27 | 35 | 20 | | 2.9 | | | |
| | | MN | | 27 | 58 | 20 | 2.4 | | | | |
| | | MZ | | 28 | 05 | 18 | | | 0.1 | | |
| | | F | 10 | 15 | | | | | | | |
| 129 | " 23 | eP?NE | 21 | 22 | 49 | 4 | | | | 7200? (64°8) | Most outstanding phase. |
| | | eN | | 22 | 53 | 5 | | | | | |
| | | iEZ | | 22 | 58 | 4 | | +0.8 | +0.7 | | |
| | | iZ | | 23 | 19 | 4 | | | -1.0 | | |
| | | iSNE | | 31 | 37 | 6 | +5.5 | +12.0 | | | |
| | | iNE | | 32 | 49 | 7 | -8.1 | +7.2 | | | |
| | | iN | | 36 | 05 | 6 | +4.9 | | | | |
| | | eL | | 42 | .3 | 36 | | | | | |
| | | MN | | 47 | 39 | 12 | 6.7 | | | | |
| | | MZ | | 49 | 17 | 14 | | | 0.1 | | |
| | | ME | | 49 | 39 | 18 | | 3.3 | | | |
| | | F | 23 | 40 | | | | | | | |
| 130 | " 24 | i(S) | 22 | 26 | 28 | 5 | +1.5 | -2.2 | | | Earlier phases obscured by heavy microseisms. |
| | | eL | | 30 | .2 | 27 | | | | | |
| | | ME | | 35 | 05 | 8 | | 5.0 | | | |
| | | MN | | 35 | 33 | 8 | 3.8 | | | | |
| | | F | 23 | 45 | | | | | | | |
| 131 | " 25 | eL | 17 | 00 | .5 | 17 | | | | | Obscured by micro-seisms. |
| | | MN | 18 | 02 | 18 | 13 | 0.5 | | | | |
| | | F | 17 | 30 | | | | | | | |
| 132 | " 28 | ePNZ | 06 | 44 | 22 | | | | | 3135 (28°2) | Heavy micros. |
| | | eSE | | 29 | 14 | 8 | | | | | |
| | | iSN | | 49 | 15 | 8 | -2.4 | | | | |
| | | eL | | 52 | .9 | 18 | | | | | |
| | | ME | | 54 | 13 | 10 | | 1.8 | | | |
| | | F | 07 | 15 | | | | | | | |

-000-

 WM. O'LEARY, S. J.
 Director.
 1936, August 5.

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 (480 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) | 215 | 7.7 | 3.5 | 0.018 |
| (3) | 86 | 11.9 | 4.1 | 0.012 |
| A ^E (1) | 238 | 8.2 | 4.4 | 0.022 |
| (3) | 92 | 13.1 | 5.3 | 0.026 |
| A ^Z (2) | 60 | 5.1 | 3.7 | 0.042 |

| No. | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|-----------------|-------------------|------------------|----|----|--------|-------------------|-------------------|-------------------|--------------|----------|
| | | | h. | m. | s. | | A _N mm | A _E mm | A _Z mm | | |
| 133 | 1936 Sept. 3 | e? | 11 | 54 | .1 | | | | | | |
| | | eL | | 59 | .0 | 17 | | | | | |
| | | ME | 12 | 01 | 34 | 13 | | 0.4 | | | |
| | | MN | | 04 | 04 | 13 | 0.3 | | | | |
| 134 | " 3 | F | 12 | 20 | | | | | | | |
| | | e(P) _N | 12 | 28 | 24 | 2 | | | | | |
| | | S _{NE} | | 32 | 50 | 7 | 1.1 | 0.5 | | | |
| | | eL | | 34 | .5 | ? | | | | | |
| 135 | " 3 | ME | 36 | 33 | | 14 | | 0.4 | | | |
| | | MN | 37 | 02 | | 15 | 0.4 | | | | |
| | | F | 13 | 05 | | | | | | | |
| | | e | 14 | 41 | .8 | 18 | | | | | |
| 136 | " 4 | eL | | 44 | .0 | 17 | 0.3 | | | | |
| | | MN | | 45 | 04 | 17 | | | | | |
| | | ME | | 46 | 02 | 15 | | 0.3 | | | |
| | | F | 15 | 00 | | | | | | | |
| 137 | " 5 | eE | 08 | 29 | 01 | 7 | | | | | |
| | | eN | | 29 | 04 | 7 | | | | | |
| | | eL | | 46 | .8 | 17 | | | | | |
| | | MN | | 49 | 00 | 17 | 0.2 | | | | |
| 138 | " 5 | ME | | 50 | 53 | 17 | | 0.2 | | | |
| | | F | 09 | 20 | | | | | | | |
| | | eE | 17 | 32 | 40 | 3 | | | | | |
| | | eN | | 32 | 59 | 3 | | | | | |
| 139 | " 6 | MN | | 43 | 06 | 13 | 0.3 | | | | |
| | | ME | | 43 | 17 | 12 | | 0.2 | | | |
| | | F | 18 | 10 | | | | | | | |
| | | e | 22 | 01 | .1 | 22 | | | | | |
| 140 | " 7 | eL | | 05 | .2 | 22 | | | | | |
| | | MN | | 09 | 54 | 12 | 1.0 | | | | |
| | | ME | | 10 | 06 | 12 | | 0.7 | | | |
| | | F | 22 | 25 | | | | | | | |
| 141 | " 17 | eNE | 17 | 47 | 06 | | | | | | |
| | | eL | | 55 | .7 | 23 | | | | | |
| | | ME | | 57 | 51 | 18 | | 0.9 | | | |
| | | MN | | 58 | 09 | 13 | 2.4 | | | | |
| 142 | " 7 | F | 19 | 05 | | | | | | | |
| | | eL | 00 | 14 | .0 | 17 | | | | | |
| | | ME | | 16 | 19 | 13 | | 0.3 | | | |
| | | MN | | 17 | 57 | 13 | 0.2 | | | | |
| 143 | " 17 | F | 00 | 30 | | | | | | | |
| | | iPE | 17 | 20 | 05 | 3 | | -0.7 | | 2564? | |
| | | e(S) _E | | 24 | 16 | 7 | | | | (23.1?) | |
| | | eL | | 26 | .5 | 17 | | | | | |
| 144 | " 17 | MN | | 27 | 42 | 14 | 0.8 | | | | |
| | | ME | | 30 | 03 | 10 | | 0.3 | | | |
| | | F | 17 | 50 | | | | | | | |

(Continued on next sheet)

No 9 (continued)

1936, September.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|------------------|--------------------|---------------------|-------|----|-----------|-------------|-------------|-------------|-----------------|----------|
| | | | | | | | A_N mm | A_E mm | A_Z mm | | |
| 142 | 1936 Sept. 18 | e | 02 | 20.7 | | | | | | | |
| | | M | | 27 00 | 12 | 0.4 | 0.4 | | | | |
| | | F | 02 | 35 | | | | | | | |
| 143 | " 18 | e | 17 | 46.0 | | | | | | | |
| | | eL | | 52.5 | 17 | | | | | | |
| | | MN | | 54 08 | 12 | 0.3 | | | | | |
| | | ME | | 54 13 | 12 | | 0.2 | | | | |
| | | F | Lost in No. 144 | | | | | | | | |
| 144 | " 18 | i(P) _E | 18 | 07 10 | 3 | | -0.5 | | | | |
| | | eL | | 14.4 | 15 | | | | | | |
| | | MN | | 17 22 | 11 | 0.3 | | | | | |
| | | F | 18 | 35 | | | | | | | |
| 145 | " 18 | e | 19 | 06.0 | | | | | | | |
| | | eL | | 14.2 | 16 | | | | | | |
| | | MN | | 17 46 | 15 | 0.2 | | | | | |
| | | F | 19 | 35 | | | | | | | |
| 146 | " 19 | eP _{NE} | 01 | 12 11 | 3 | 0.3 | 0.3 | | 6790 | | |
| | | eP _Z | | 12 12 | 3 | | | 0.3 | (61.1) | | |
| | | i _Z | | 12 18 | 3 | | | -0.6 | | | |
| | | iS _{NE} | | 20 37 | 5 | +6.5 | -2.0 | | | | |
| | | eL | | 28.4 | 25 | | | | | | |
| | | MN | | 35 39 | 21 | 23.5 | | | | | |
| | | ME | | 38 44 | 21 | | 19.4 | | | | |
| | | MZ | | 39 30 | 21 | | | 0.6 | | | |
| | | F | 04 | 20 | | | | | | | |
| 147 | " 19 | e(P) _{NE} | 06 | 49 18 | 5 | | | | | | |
| | | eL | 07 | 01.7 | 25 | | | | | | |
| | | MN | | 03 58 | 23 | 0.4 | | | | | |
| | | ME | | 07 33 | 21 | | 0.3 | | | | |
| | | F | 07 | 35 | | | | | | | |
| 148 | " 23 | e _{NE} | 06 | 43.0 | | | | | | | |
| | | eL | | 49.0 | 14 | | | | | | |
| | | MN | | 50 50 | 12 | 0.4 | | | | | |
| | | F | 07 | 15 | | | | | | | |
| 149 | " 25 | e _N | 13 | 42.2 | | | | | | | |
| | | eL | | 47.1 | 21 | | | | | | |
| | | ME | | 56 23 | 18 | | 0.3 | | | | |
| | | F | 14 | 25 | | | | | | | |
| 150 | " 29 | eP _Z | 16 | 40 41 | 3 | | | | 2365 | | |
| | | iP _{NE} | | 40 43 | 3 | +0.6 | -0.5 | | (21.3) | | |
| | | i _E | | 41 03 | 3 | | -1.5 | | | | |
| | | iS _N | | 44 36 | 5 | +0.9 | | | | | |
| | | iS _E | | 44 39 | 5 | | -1.2 | | | | |
| | | m _{NE} | | 44 48 | 7 | 2.3 | 2.7 | | | | |
| | | eL | | 47.2 | 14 | | | | | | |
| | | MN | | 49 05 | 12 | 0.3 | | | | | |
| | | F | 17 | 10 | | | | | | | |

Periods increasing to 49s.

 WM. O'LEARY S.J.
 Director.
 1936, Oct. 11.

No. 10.

1936, October.

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) | 220 | 7.9 | 3.9 | 0.016 |
| (3) | 97 | 11.7 | 4.9 | 0.011 |
| A ^E (1) | 233 | 8.4 | 3.8 | 0.022 |
| (3) | 85 | 13.5 | 2.4 | 0.020 |
| A ^V (2) | 67 | 5.0 | 3.3 | 0.056 |

| No. | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|------------------|-------------------|---------------------|----|----|-----------|-----------------------|-----------------------|-----------------------|-----------------|--------------|
| | | | h. | m. | s. | | A _N mm. | A _E mm. | A _Z mm. | | |
| 151 | 1936 Octbr. 2 | e | 13 | 04 | .2 | | | | | | |
| | | MN | | 10 | 17 | 10 | | | | | |
| | | F | 13 | 25 | | | | | | | |
| 152 | " 3 | eP ^{NE} | 21 | 58 | 19 | 7 | | | | 4800 | |
| | | eS ^N | 22 | 04 | 53 | 7 | | | | (43.2) | |
| | | ME | | 05 | 07 | 12 | | 1.6 | | | |
| | | eE | | 08 | 15 | 8 | | | | | |
| | | i ^N | | 08 | 24 | 8 | +4.5 | | | | |
| | | eL ^E | | 10 | .4 | 41 | | | | | |
| | | ME | | 15 | 24 | 24 | | 1.0 | | | |
| | | MN | | 17 | 42 | 20 | 2.1 | | | | |
| | | MZ | | 18 | 23 | 16 | | | 0.1 | | |
| | | F | 23 | 20 | | | | | | | |
| 153 | " 4 | iP ^E | 23 | 59 | 13 | 4 | | -1.4 | | 3390? | Heavy micro- |
| | | iZ | | 59 | 15 | 3 | | | -0.8 | | seisms. |
| | | iE | 00 | 00 | 09 | 5 | | -7.8 | | | |
| | | i ^N | | 01 | 09 | 5 | +1.8 | | | | |
| | | i(S) ^N | | 04 | 22 | 5 | +1.5 | | | | |
| | | eL | | 06 | .0 | 24 | | | | | |
| | | MZ | | 08 | 00 | 17 | | | 0.2 | | |
| | | MN | | 08 | 07 | 15 | 2.3 | | | | |
| | | ME | | 08 | 24 | 17 | | 3.0 | | | |
| | | F | 01 | 30 | | | | | | | |
| 154 | " 5 | ePZ | 09 | 52 | 16 | | | | | 4455 | |
| | | iP ^{NEZ} | | 52 | 18 | 3 | +2.2 | -2.0 | -0.5 | (40.1) | |
| | | i ^{NE} | | 54 | 24 | 7 | +2.5 | -2.0 | | | |
| | | iS ^{NE} | | 58 | 31 | 7 | -5.2 | +2.5 | | | |
| | | i ^N | 10 | 01 | 38 | 8 | +5.1 | | | | |
| | | iE | | 01 | 49 | 5 | | -3.6 | | | |
| | | m ^N | | 01 | 57 | 7 | 7.1 | | | | |
| | | ME | | 02 | 05 | 7 | | 6.5 | | | |
| | | eL? | | 03 | .1 | 24 | | | | | |
| | | eL | | 05 | .0 | 36 | | | | | |
| | | ME ₁ | | 08 | 51 | 24 | | 6.6 | | | |
| | | MN | | 11 | 57 | 17 | 4.6 | | | | |
| | | ME ₂ | | 12 | 43 | 12 | | 6.3 | | | |
| | | F | 11 | 25 | | | | | | | |
| 155 | " 12 | e | 07 | 08 | .1 | | | | | | |
| | | eL | | 10 | .1 | 13 | | | | | |
| | | MN | | 13 | 00 | 10 | 0.3 | | | | |
| | | F | 07 | 20 | | | | | | | |

(Continued on next sheet)

No. 10 (continued)

1936, October.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time | | | Per | Amplitude. | | | Δ | Remarks. | |
|-----|-----------------|-------|-----------------|-------|----|-----|------------|-------|-------|----------------|-------------------|----------------|
| | | | Greenwich) | | | | A_N | A_E | A_Z | | | |
| | | | h. | m. | s. | s. | mm | mm | mm | km. | | |
| 156 | 1936 Oct. 14 | ePEZ | 22 | 20 | 12 | 5 | | | | 2365 (21°3) | | |
| | | eN | | 20 | 18 | 7 | | | | | | |
| | | iSN | | 24 | 08 | 8 | +4.0 | | | | | |
| | | iSE | | 24 | 10 | 7 | | +3.7 | | | | |
| | | iE | | 24 | 29 | 7 | | +4.5 | | | | |
| | | eL | | 25 | .6 | | 24 | | | | | |
| | | ME | | 27 | 14 | | 21 | | 0.7 | | | |
| | | F | 22 | 50 | | | | | | | | |
| 157 | " 15 | ME | 21 | 07 | 53 | 13 | | 0.2 | | | | |
| | | MN | | 09 | 48 | 10 | 0.3 | | | | | |
| | | F | 21 | 20 | | | | | | | | |
| 158 | " 16 | iPN | 12 | 02 | 23 | 3 | -0.5 | | | 2965 (26°7) | | |
| | | eSE | | 07 | 04 | 5 | | | | | | |
| | | eSN | | 07 | 08 | 8 | | | | | | |
| | | eN | | 07 | 33 | | | | | | | |
| | | eLE | | 09 | .2 | | 26 | | | | | |
| | | eLN | | 10 | .2 | | 26 | | | | | |
| | | ME | | 12 | 21 | | 14 | | 1.6 | | | |
| | | MN | | 14 | 10 | | 16 | 1.5 | | | | |
| | | F | 13 | 00 | | | | | | | | |
| | | 159 | " 18 | eN | 06 | 38 | 21 | | | | | |
| eN | | | | 40 | 19 | 9 | | | | | | |
| eE | | | | 40 | 22 | 7 | | | | | | |
| eNE | | | | 45 | 19 | 10 | | | | | | |
| eL | | | | 48 | .7 | | 17 | | | | | |
| MN | | | | 52 | 34 | | 12 | 0.2 | | | | |
| F | 07 | | | 20 | | | | | | | | |
| 160 | " 19 | | | iPNEZ | 12 | 11 | 55 | 5 | +2.0 | -2.5 | -0.5 | 4180 (37°6) |
| | | iNE | | 13 | 22 | 5 | +2.1 | -2.7 | | | | |
| | | iSNE | | 17 | 54 | 7 | +3.2 | -1.6 | | | | |
| | | eL?N | | 24 | .0 | | ? | | | | | |
| | | eLE | | 25 | .4 | | 34 | | | | | |
| | | MN1 | | 26 | 15 | | 16 | 4.7 | | | | |
| | | ME1 | | 27 | 05 | | 15 | | 9.1 | | | |
| | | MZ1 | | 27 | 50 | | 16 | | 0.2 | | | |
| | | MZ2 | | 29 | 05 | | 19 | | 0.3 | | | |
| | | ME2 | | 29 | 17 | | 17 | | 8.1 | | | |
| | | MN2 | | 30 | 07 | | 15 | 6.2 | | | | |
| F | 13 | 20 | | | | | | | | | | |
| 161 | " 22 | e(P) | 10 | 03 | .1 | | | | | 2610? | | |
| | | eSE | | 07 | 21 | 5 | | 0.8 | | | | |
| | | iN | | 07 | 45 | 5 | -0.6 | | | | | |
| | | ME | | 12 | 25 | 10 | | 0.7 | | | | |
| 162 | " 22 | MN | | 12 | 37 | 12 | 0.5 | | | | | |
| | | e | 16 | 19 | | | | | | | A few small waves | |
| 163 | " 23 | eN | 06 | 49 | .3 | | | | | | | |
| | | iNE | | 50 | 50 | 5 | +0.8 | -1.5 | | | | |
| | | eL | 07 | 15 | .4 | | 24 | | | | | |
| | | ME | | 19 | 52 | 20 | | 0.2 | | | | |
| | | MN | | 20 | 49 | 20 | 0.2 | | | | | |
| 164 | " 23 | F | lost in No. 164 | | | | | | | | | |
| | | e? | 08 | 06 | .6 | | | | | | | |
| | | eL | | 32 | .1 | | 26 | | | | | |
| | | MN | | 36 | 04 | | 24 | 0.2 | | | | |
| | | ME | | 41 | 21 | | 22 | | 0.1 | | | |
| F | 09 | 20 | | | | | | | | | | |

(Continued on next sheet)

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i>) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|-----------------|------------------|----------------------------|-----|----|-----------|-------------|-------------|-------------|-----------------|--|
| | | | h. | m. | s. | | A_N mm | A_E mm | A_Z mm | | |
| 165 | 1936 Oct. 23 | eP _{NE} | 19 | 35 | 15 | ? | | | | 2455 (22°1) | |
| | | eS _E | | 39 | 17 | 7 | | | | | |
| | | eS _N | | 39 | 19 | 8 | | | | | |
| | | eL | | 40. | 9 | 18 | | | | | |
| | | MN | | 42 | 57 | 8 | 3.8 | | | | |
| | | MZ | | 43 | 06 | 10 | | | 0.2 | | |
| | | ME | | 43 | 34 | 9 | | 5.5 | | | |
| 166 | " 24 | F | 20 | 30 | | | | | | | |
| | | eN | 18 | 09. | 3 | | | | | | |
| | | eE | | 09. | 4 | | | | | | |
| | | eL | | 11. | 1 | 14 | | | | | |
| 167 | " 26 | MN | | 12 | 23 | 14 | 0.3 | | | | Times approximate only. Minute marks failed. |
| | | F | 18 | 40 | | | | | | | |
| | | e | 19 | 49. | 6 | | | | | | |
| | | eL | | 58. | 7 | 38 | | | | | |
| | | ME | 20 | 05. | 8 | 24 | | 0.4 | | | |
| 168 | " 29 | MN | | 06. | 1 | 19 | 0.5 | | | 5290 (47°6) | |
| | | F | 20 | 50 | | | | | | | |
| | | eP _N | 18 | 47 | 32 | | | | | | |
| | | iS _E | | 54 | 31 | 7 | | +1.2 | | | |
| | | iS _N | | 54 | 35 | 6 | -2.0 | | | | |
| | | eL | 19 | 00. | 2 | 34 | | | | | |
| 169 | " 31 | ME | | 05 | 55 | 17 | | 5.5 | | | |
| | | MN | | 07 | 20 | 15 | 4.3 | | | | |
| | | F | 20 | 55 | | | | | | | |
| | | eL | 15 | 12. | 0 | 20 | | | | | |
| | | MN | | 15 | 09 | 15 | 0.2 | | | | |
| F | 15 | 45 | | | | | | | | | |

-----000-----

WM. O'LEARY S.J.
Director.
1936, November 9

1936, November.

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 | $\epsilon:1$ | $\frac{r}{T_0^2}$ |
|----------|-----|-------|--------------|-------------------|
| $A^1(1)$ | 217 | 8.1 | 4.0 | 0.018 |
| (3) | 92 | 12.0 | 5.3 | 0.012 |
| $A^2(1)$ | 222 | 8.6 | 3.9 | 0.025 |
| (3) | 87 | 12.8 | 4.6 | 0.019 |
| $A^2(2)$ | 76 | 5.1 | 3.2 | 0.054 |

| No. | Date | Phase | Time (Greenwich) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-------------------|----------------|--------------------|---------------------|------|-------|-----------|-------------|-------------|-------------|-----------------|----------------------------------|
| | | | | | | | A_N mm | A_E mm | A_Z mm | | |
| 170 | 1936 Nov. 2 | ePZ | 15 | 10 | 03 | 2 | | | 0.1 | 8955 (80.6) | |
| | | ePN | | 10 | 05 | ? | | | | | |
| | | eNE | | 10 | 44 | 4 | | | | | |
| | | eS _{NE} | | 20 | 12 | 6 | 0.3 | 0.4 | | | |
| | | ME | | 20 | 32 | 10 | | 0.6 | | | |
| | | eL | | 31 | 2 | 27 | | | | | |
| | | MN | | 40 | 42 | 21 | 1.0 | | | | |
| | | ME | | 41 | 58 | 18 | | 0.4 | | | |
| | | MZ | | 43 | 11 | 21 | | | 0.1 | | |
| | | F | | 16 | 45 | | | | | | |
| 171 | " 2 | ePNZ | 20 | 57 | 20 | 3 | 0.2 | | 0.1 | 7945 (71.5) | |
| | | iS _{NE} | 21 | 06 | 43 | 9 | -4.3 | -3.5 | | | |
| | | mN | | 07 | 17 | 9 | 2.1 | | | | |
| | | eL(Q) _E | | 16 | 5 | 34 | | | | | |
| | | eL(R) _N | | 20 | 4 | 34 | | | | | |
| | | MZ | | 23 | 35 | 22 | | | 0.1 | | |
| | | MN | | 23 | 55 | 24 | 2.5 | | | | |
| | | ME | | 24 | 28 | 21 | | 2.8 | | | |
| | | F | | 23 | 50 | | | | | | |
| | | 172 | " 4 | eN | 13 | 59 | 32 | 6 | | | |
| e(S) _N | 14 | | | 02 | 44 | 7 | | | | | |
| e(S) _E | | | | 02 | 59 | 7 | | | | | |
| MN | | | | 07 | 05 | 10 | 0.3 | | | | |
| F | | | | 14 | 20 | | | | | | |
| 173 | " 8 | eN | 12 | 30 | 4 | | | | | | |
| | | e(S) _N | | 32 | 03 | 10 | | | | | |
| | | eL | | 35 | 8 | 20 | | | | | |
| | | ME | | 37 | 23 | 13 | | 0.3 | | | |
| | | MN | | 38 | 56 | 15 | 0.4 | | | | |
| 174 | " 10 | e | 04 | 33.5 | to 05 | 25 | | | | | Small waves. No definite phases. |
| 175 | " 10 | eE | 05 | 24 | 34 | 3 | | | | | |
| | | eN | | 24 | 35 | 3 | | | | | |
| | | MN | | 26 | 37 | 12 | 0.3 | | | | |
| | | F | | 05 | 45 | | | | | | |
| 176 | " 12 | eN | 02 | 32 | 0 | | | | | | |
| | | eL | | 40 | 5 | 21 | | | | | |
| | | MN | | 45 | 07 | 15 | 0.2 | | | | |
| | | F | | 03 | 10 | | | | | | |
| 177 | " 12 | e(L) | 08 | 50 | 0 | 17 | | | | | |
| | | MN | | 56 | 53 | 11 | 0.3 | | | | |
| | | ME | | 57 | 30 | 10 | | 0.4 | | | |
| | | F | | 09 | 20 | | | | | | |

(Continued on next sheet)

No. 11 (continued)

1936, November.

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 mm | A_E mm | A_Z mm | | |
| 178 | 1936 Nov. 13 | iPNZ | 12 | 44 | 34 | 3 | +1.0 | | -0.7 | 9510 (85°6) | |
| | | iE | | 44 | 56 | 3 | | -1.0 | | | |
| | | iSN | | 55 | 08 | 8 | +1.5 | | | | |
| | | eE | | 55 | 27 | 7 | | | | | |
| | | iN | | 55 | 35 | 8 | -2.2 | | | | |
| | | eL(Q)E | 13 | 09 | .7 | 34 | | | | | |
| | | eL(R)N | | 13 | .8 | 32 | | | | | |
| | | MZ | | 16 | 18 | 27 | | | 0.1 | | |
| | | MN | | 16 | 42 | 26 | 1.8 | | | | |
| | | ME | | 18 | 34 | 17 | | 1.4 | | | |
| | | F | 15 | 25 | | | | | | | |
| 179 | " 22 | iPEZ | 14 | 49 | 20 | 2 | | -0.3 | +0.1 | | |
| | | eN | | 54 | 28 | 8 | | | | | |
| | | eL | | 56 | .5 | 23 | | | | | |
| | | MN | | 58 | 20 | 17 | 0.4 | | | | |
| | | ME | | 58 | 58 | 17 | | 0.7 | | | |
| | | F | 15 | 30 | | | | | | | |
| 180 | " 24 | eN | 17 | 17 | .8 | | | | | | |
| | | eL | | 21 | .5 | 17 | | | | | |
| | | MN | | 22 | 18 | 14 | 0.3 | | | | |
| | | ME | | 24 | 23 | 13 | | 0.2 | | | |
| 181 | " 26 | F | 17 | 40 | | | | | | | |
| | | i(P)E | 08 | 39 | 08 | 2 | | +0.6 | | Small local shock | |
| | | i(P)N | | 39 | 09 | 2 | +0.5 | | | | |
| | | MN | | 40 | 33 | 5 | 0.2 | | | | |
| | | ME | | 40 | 44 | 5 | | 0.3 | | | |
| F | 08 | 43 | | | | | | | | | |
| 182 | " 29 | ePN | 08 | 30 | 39 | | | | | 2345 (21°1) | |
| | | ePE | | 30 | 40 | | | | | | |
| | | iNEZ | | 30 | 55 | 4 | -1.6 | -2.0 | +0.4 | | |
| | | eSE | | 34 | 32 | 5 | | | | | |
| | | iSN | | 34 | 35 | 5 | +2.0 | | | | |
| | | iZ | | 34 | 39 | 4 | | | -0.4 | | |
| | | iSSN | | 34 | 55 | 5 | +3.4 | | | | |
| | | iSSSE | | 35 | 00 | 5 | | -3.7 | | | |
| | | eL | | 36 | .2 | 17 | | | | | |
| | | MN1 | | 38 | 16 | 12 | 3.3 | | | | |
| | | ME | | 38 | 41 | 12 | | 1.7 | | | |
| | | MN2 | | 40 | 32 | 10 | 8.8 | | | | |
| | | F | 10 | 15 | | | | | | | |
| 183 | " 30 | eN | 17 | 22 | .0 | | | | | | |
| | | eL | | 27 | .0 | 19 | | | | | |
| | | MN | | 27 | 40 | 14 | 0.3 | | | | |
| | | ME | | 28 | 15 | 14 | | 0.2 | | | |
| | | F | 17 | 45 | | | | | | | |
| 184 | " 30 | ePNEZ | 23 | 53 | 17 | | | | | | |
| | | iPNEZ | | 53 | 19 | 4 | +1.5 | -1.0 | -0.2 | | |
| | | eNE | | 54 | 49 | 12 | | | | | |
| | | S?N | | 58 | 53 | | | | | | |
| | | e(L) | 00 | 00 | .0 | ? | | | | | |
| | | ME1 | | 08 | 15 | 19 | | 2.1 | | | |
| | | MN | | 08 | 24 | 17 | 2.5 | | | | |
| | | ME2 | | 10 | 39 | 17 | | 3.1 | | | |
| | | MZ | | 11 | 03 | 15 | | | 0.1 | | |
| F | 01 | 20 | | | | | | | | | |

-----000-----

 WM. O'LEARY S.J.
 Director.
 1936, December 3,

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 | $\epsilon:1$ | $\frac{r}{T_0^2}$ |
|----------|-----|-------|--------------|-------------------|
| $A^N(1)$ | 233 | 7.7 | 4.2 | 0.017 |
| $A^N(3)$ | 79 | 12.0 | 5.1 | 0.012 |
| $A^E(1)$ | 230 | 8.7 | 3.4 | 0.037 |
| $A^E(3)$ | 88 | 12.9 | 2.6 | 0.020 |
| $A^V(2)$ | 66 | 5.1 | 3.0 | 0.118 |

| No. | Date | Phase | Time (Greenwich) | | | Per | Amplitude. | | | Δ km. | Remarks. |
|-----|----------------|------------------|------------------|-------|----|------|-------------|-------------|-------------|-----------------|----------|
| | | | h. | m. | s. | | A_N mm | A_E mm | A_Z mm | | |
| 185 | 1936 Dec. 1 | e? | 17 | 17.1 | | | | | | | |
| | | eN | | 19.4 | | | | | | | |
| | | eL | | 27.3 | 17 | | | | | | |
| | | MN | | 29 42 | 14 | 0.2 | | | | | |
| 186 | " 2 | F | 17 | 50 | | | | | | | |
| | | eN | 18 | 21 53 | | | | | | | |
| | | eL | | 27.9 | 21 | | | | 0.5 | | |
| | | ME | | 29 12 | 9 | | | | | | |
| 187 | " 3 | MN | | 29 22 | 8 | 0.9 | | | | | |
| | | F | 19 | 05 | | | | | | | |
| | | eN | 03 | 15.4 | | | | | | | |
| | | eL | | 21.2 | 15 | | | | | | |
| 188 | " 4 | ME | | 22 15 | 13 | | | | 0.2 | | |
| | | MN | | 22 41 | 13 | 0.4 | | | | | |
| | | F | 03 | 50 | | | | | | | |
| | | eP _E | 22 | 30 59 | 4 | | | | | 2310 (20.8) | |
| 189 | " 4 | eP _{NZ} | | 31 02 | 4 | | | | | | |
| | | iS _E | | 34 50 | 4 | | -1.8 | | | | |
| | | iS _N | | 34 54 | 4 | +2.8 | | | | | |
| | | eL | | 36.5 | 17 | | | | | | |
| 190 | " 5 | MN | | 38 19 | 13 | 2.6 | | | | | |
| | | ME | | 38 56 | 13 | | | 0.7 | | | |
| | | F | Lost in No. 189. | | | | | | | | |
| | | e(L) | 23 | 08.0 | ? | | | | | | |
| 191 | " 5 | MN | | 10 28 | 14 | 1.0 | | | | | |
| | | ME | | 11 07 | 14 | | | 0.3 | | | |
| | | F | 23 | 40 | | | | | | | |
| | | eN | 14 | 43.6 | | | | | | | |
| 192 | " 5 | eL | | 44.5 | 11 | | | | | | |
| | | MN | | 48 02 | 11 | 0.3 | | | | | |
| | | F | 15 | 00 | | | | | | | |
| | | eE | 19 | 03 03 | | | | | | | |
| 193 | " 5 | eN | | 07 34 | 10 | | | | | | |
| | | eL | | 09.5 | 16 | | | | | | |
| | | MN | | 10 39 | 14 | 1.1 | | | | | |
| | | ME | | 11 41 | 14 | | | 0.3 | | | |
| 194 | " 5 | F | 19 | 45 | | | | | | | |
| | | eN | 22 | 38.7 | | | | | | | |
| | | eL | | 42.0 | 17 | | | | | | |
| | | MN | | 43 18 | 14 | 0.3 | | | 0.2 | | |
| 195 | " 5 | ME | | 43 37 | 10 | | | | | | |
| | | F | 23 | 05 | | | | | | | |
| | | eN | 23 | 28.8 | | | | | | | |
| | | eL | | 30.0 | 17 | | | | | | |
| 196 | " 5 | MN | | 31 27 | 12 | 0.6 | | | | | |
| | | F | 23 | 45 | | | | | | | |

(Continued on next sheet)

No. 12 (continued)

1936, December.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i>) | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----|----------------|-------------------|----------------------------|-------|----|-----------|----------------------|----------------------|----------------------|-----------------|----------|
| | | | h. | m. | s. | | A _N mm | A _E mm | A _Z mm | | |
| 194 | 1936 Dec. 6 | e _N | 02 | 56.9 | | | | | | | |
| | | e _N | | 58.9 | | | | | | | |
| | | e _L | 03 | 02.2 | 14 | | | | | | |
| | | MN | | 04 12 | 12 | 0.3 | | | | | |
| 195 | " 9 | F | 03 | 15 | | | | | | | |
| | | e _L | 18 | 11.1 | 15 | | | | | | |
| | | MN | | 12 07 | 14 | 0.2 | | | | | |
| 196 | " 13 | F | 18 | 25 | | | | | | | |
| | | e _N | 21 | 39.3 | | | | | | | |
| | | e _{NE} | | 41.9 | | | | | | | |
| 197 | " 16 | e _N | | 46.6 | 17 | | | | | | |
| | | e _L | | 52.7 | 26 | | | | | | |
| | | ME | | 57 13 | 16 | | 0.3 | | | | |
| | | MN | | 57 22 | 16 | 0.4 | | | | | |
| | | F | 22 | 35 | | | | | | | |
| | | e _N | 19 | 43.1 | | | | | | | |
| 198 | " 17 | MN | | 53.0 | 11 | 0.2 | | | | | |
| | | F | 20 | 05 | | | | | | | |
| | | e _N | 03 | 51.3 | | | | | | | |
| 199 | " 17 | e _N | | 53.5 | | | | | | | |
| | | e _L | | 55.3 | 17 | | | | | | |
| | | MN | | 57 16 | 14 | 0.5 | | | | | |
| | | ME | | 58 02 | 14 | | 0.2 | | | | |
| | | F | 04 | 15 | | | | | | | |
| | | e _N | 13 | 41.1 | | | | | | | |
| 200 | " 17 | e _L | | 42.7 | 14 | | | | | | |
| | | MN | | 44 05 | 13 | 0.3 | | | | | |
| | | ME | | 44 14 | 13 | | 0.2 | | | | |
| | | F | Lost in No. 200. | | | | | | | | |
| 201 | " 17 | e _L | 14 | 09.9 | 14 | | | | | | |
| | | ME | | 10 31 | 13 | | 0.2 | | | | |
| | | MN | | 11 19 | 14 | 0.3 | | | | | |
| | | F | 14 | 25 | | | | | | | |
| 202 | " 17 | e _N | 21 | 13.1 | | | | | | | |
| | | e _L | | 17.2 | 15 | | | | | | |
| | | MN | | 18 53 | 13 | 0.4 | | | | | |
| | | ME | | 21 12 | 14 | | 0.2 | | | | |
| 203 | " 19 | F | 21 | 30 | | | | | | | |
| | | e _N | 23 | 11.2 | | | | | | | |
| | | e _L | | 13.4 | 14 | | | | | | |
| 204 | " 20 | MN | | 14 10 | 14 | 0.2 | | | | | |
| | | F | 23 | 20 | | | | | | | |
| | | e _{NE} | 10 | 53 02 | 3 | | | | | | |
| 205 | " 20 | MN | | 47 28 | 8 | 0.6 | | | | | |
| | | F | 21 | 03 | | | | | | | |
| | | e _N | 03 | 16.4 | | | | | | | |
| 205 | " 20 | e(L) | | 18.7 | 14 | | | | | | |
| | | ME | | 18 48 | 10 | | 0.3 | | | | |
| | | MN | | 20 04 | 11 | 0.3 | | | | | |
| | | F | 03 | 35 | | | | | | | |
| | | i(P) _N | 18 | 45 53 | 4 | +0.7 | | | | | |
| | | i(P) _E | | 45 55 | 4 | | -1.1 | | | | |
| 205 | " 20 | e _N | | 48 20 | 5 | | | | | | |
| | | e _L | | 58.3 | 17 | | | | | | |
| | | MNE | 19 | 02 13 | 17 | 0.4 | 0.3 | | | | |
| F | 19 | 30 | | | | | | | | | |

(Continued on next sheet)

No. 12 (continued)

1936, December.

RIVERVIEW COLLEGE OBSERVATORY.

SYDNEY, N.S.W.

SEISMOLOGICAL BULLETIN.

| No. | Date | Phase | Time <i>Greenwich</i> | | | Per s. | Amplitude. | | | Δ km. | Remarks. |
|-----------------|-----------------|---------|--------------------------|------|-------|-----------|-------------|----------------|-------------|------------------|----------|
| | | | h. | m. | s. | | A_N mm | A_E mm | A_Z mm | | |
| 206 | 1936 Dec. 21 | i(P)NEZ | 17 | 23 | 49 | 2 | -0.3 | -0.3 | +0.1 | 2490? (22°4?) | |
| | | e(S)N | | 27 | 54 | 5 | | | | | |
| | | mN | | 29 | 27 | 8 | 1.0 | | | | |
| 207 | " 22 | F | 17 | 45 | | | | | | | |
| | | eN | 08 | 39.6 | | | | | | | |
| | | e(S)N | | 42 | 33 | 7 | | | | | |
| | | eL | | 45.9 | | 20 | | | | | |
| 208 | " 23 | MNE | | 49 | 35 | 15 | 0.7 | 0.4 | | | |
| | | F | 09 | 20 | | | | | | | |
| | | e(P)N | 06 | 39 | 40 | 4 | | | | 2655? (23°9?) | |
| | | e(S)NE | | 43 | 59 | 9 | | | | | |
| | | eL | | 46.3 | | 12 | | | | | |
| | | ME | | 47 | 53 | 9 | | 0.6 | | | |
| | | MN | | 48 | 39 | 9 | 0.5 | | | | |
| F | 07 | 05 | | | | | | | | | |
| iPE | 22 | 58 | 09 | 3 | | -1.5 | | 2700 (24°3) | | | |
| ePNZ | | 58 | 09 | 3 | | | | | | | |
| iZ | | 58 | 11 | 3 | | | | | -0.7 | | |
| iE | | 59 | 07 | 5 | | -6.1 | | | | | |
| eSE | 23 | 02 | 31 | 12 | | | | | | | |
| iE | | 03 | 01 | 7 | | +3.2 | | | | | |
| iN | | 03 | 22 | 7 | +3.7 | | | | | | |
| eL | | 04.8 | | 31 | | | | | | | |
| MN | | 06 | 38 | 15 | 2.6 | | | | | | |
| ME | | 08 | 37 | 15 | | 6.3 | | | | | |
| 210 | " 27 | F | 01 | 00 | | | | | | | |
| | | eN | 08 | 49 | 05 | 3 | | | | | |
| | | eN | | 54 | 27 | 9 | | | | | |
| | | MN | | 58 | 21 | 12 | 0.3 | | | | |
| 211 | " 29 | ME | | 59 | 05 | 14 | | 0.3 | | | |
| | | F | 09 | 20 | | | | | | | |
| | | iPZ | 14 | 53 | 49 | 3 | | | +0.8 | 2980 (26°8) | |
| | | iPN | | 53 | 50 | 3 | -3.0 | | | | |
| | | iPE | | 53 | 51 | 3 | | +0.6 | | | |
| | | iPPN | | 54 | 28 | 7 | -3.8 | | | | |
| | | SE | | 58 | 31 | 9 | | 3.5 | | | |
| SN | | 58 | 36 | 8 | 6.0 | | | | | | |
| iN | | 59 | 01 | 10 | +14.0 | | | | | | |
| iE | | 59 | 14 | 10 | | -4.6 | | | | | |
| mN | | 59 | 36 | 14 | 14.8 | | | | | | |
| e(SS)Z | | 59 | 39 | 23 | | | | | | | |
| eL | 15 | 00.0 | | 24 | | | | | | | |
| iN | | 00 | 42 | 9 | 18.1 | | | | | | |
| iE | | 00 | 56 | 7 | | -21.8 | | | | | |
| MZ ₁ | | 02 | 14 | 32 | | | 1.0 | | | | |
| MN | | 02 | 39 | 32 | 25.0 | | | | | | |
| MZ ₂ | | 03 | 40 | 20 | | | 2.0 | | | | |
| ME | | 04 | 07 | 15 | | 46.8 | | | | | |
| F | | 17 | 55 | | | | | | | | |

-----o-o-----

 WM. O'LEARY, S. J.
 Director.
 1937, Jan. 6.