# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

1924 April

WELLINGTON: Latitude - 41° 17'S. Longitude - 174° 46'E.
SUVA: Height above sea-level - 401.5 feet.
Latitude - 18° 9'S. Longitude - 178° 26'E.
Height above sea-level - 10 feet.

Instruments:-
Wellington: (a) Milne Horizontal Seismograph No.20. E-W component. Magnification, 5.6. Period, T = 25 secs. Undamped.
(b) Milne-Shaw Horizontal Seismograph No.13. N-S component. Magnification, 150. Period, T = 12 secs. Damping, 23:1.
Suva: (c) Milne Twin-Boom Horizontal Seismograph. E-W and N-S component. Magnification, 6. Period, T = 10 secs. undamped.

Time is Greenwich Civil Mean Time - Oh or 24h = Greenwich midnight.

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude AE μ | Amplitude AN μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | Wellington | | | | | |
| April 3 | e | 1 15 47 | | | | | |
| | eL1 | 1 40 45 | 14 | | 9 | | |
| | eL2 | 47 15 | 14 | | 10 | | |
| 6 | e | (21 6 53) | | s | | | (s = small) |
| 8 | | Not recorded | | | | | Riverview eP 21 01 28 |
| 10 | P | 19 25 54 | | | | | Napier and Hastings. |
| | S | 28 47 | | | | | Local shock. 1h 45m. |
| | eL | 29 52 | | | | 15 | |
| | M | 34 15 | 20 | | 40 | | |
| 11 | iP | 4 23 55 | | | | | |
| | iL | 24 00 | | s | | | Local. Very small. |
| 11 | eL | 9 28 47 | | s | | | Almost continuous small L vibrations from Ohrs to 11hrs. |
| 13 | iS | 14 7 37 | | | | | |
| | eL | 14 15 | 16 | | 10 | | Riverview O=13 47 53. |
| | | | | | | | Zi-ka-wei O=13 48 8 |
| 14 | eL | 4 32 26 | | | | | Epicentre probably near Molucca Islands. |
| 14 | e | 9 1 30 | | | | | |
| | eL | 9 57 | | s | | | Apia e=8 59 14. |
| 14 | O | 16 20 12 | | | | | Ottawa eL=9h 53.5m |
| | iP | 31 09 | | | | 66.7 | |
| | [illegible] | 33 54 | | | | | |
| | iS | 39 59 | | | | | |
| | SR1 | 44 12 | | | | | Apia eP=16 31 28 |
| | SR2 | 47 55 | | | | | Riverview O=16 20 24. |
| | L | 52 14 | | | | | Ottawa O=(16 25 33) |
| | M1 | 53 45 | | | | | Manila O= 16 19 37 |
| | M2 | 17 1 40 | 33 | | 900 | | D = 13° |
| | M3 | 8 00 | 17 | | 235 | | Zi-ka-wei O=16 20 39 |
| | M4 | 14 07 | 17 | | 95 | | D = 22°5 |
| | | | | | 90 | | Epicentre Mindanao. (Philippine Islands) |

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## 1924 April

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude AE μ | Amplitude AN μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | Wellington | | | |
| April 14 | C | 17 48 | | | | | |
| | $L_{MA}$ | 18 50 32 | 30 | | 120 | | |
| 15 | e | 11 24 53 | | | s | | |
| 18 | eL | 11 17 11 | | | s | | |
| 21 | eL | 20 49 23 | 17 | | 11 | | |
| 24 | | | | | | | Tilt to South. 0.27" |
| 25 | eP | (8 39 10) | | | | | |
| | S | 40 55 | 2 | | 16 | | |
| | L | 42 08 | 15 | | 12 | | |
| 25 | i | 12 44 18 | | | s | | Tilt to South. 0.76" |
| 26-27 | | | | | | | Microseisms very pronounced. |
| 28 | i | 20 21 06 | | | | | |
| | L | 23 12 | | | s | | Tremors all day. |
| 28 | e | 21 2 37 | | | | | |
| | S | 5 52 | | | | | |
| | eL | 7 16 | | | | | ?NE of Kermadec Is. |
| | M | 10 17 | 17 | | 44 | | Zi-ka-wei 0=20 57 5 D = 81° |
| 29 | O | 9 8 12 | | | | 19.3 | |
| | P | 12 43 | | | | | Almost continuous tremors for the rest of the day. |
| | S | 16 18 | | | | | |
| | L | 17 40 | | | | | |
| | M1 | 21 12 | 11 | | 47 | | |
| | M2 | 22 40 | 11 | | 31 | | Riverview 0=19 09 34. |
| 30 | O | 4 0 27 | | | | | |
| | P | 2 37 | | | | | Epicentre near Kermadec Is. Motion continues until commencement of following shock. |
| | iS | 4 20 | | | | | |
| | SR1 | 4 32 | | | | | |
| | L | 5 10 | | | | | |
| | M1 | 7 22 | 14 | | 100 | | Apia 0=03 59 08. D=21° |
| | M2 | 10 00 | 14 | | 95 | | Riverview 0=3 59 06 |
| | M3 | 12 51 | 14 | | 100 | | |
| | M4 | 16 35 | 12 | | 90 | | |
| | M5 | 17 46 | 12 | | 85 | | |
| | $L_{MA}$ | 7 9 17 | 7 | | 12 | | This value for $L_{MA}$ gives surface velocity of $L_o$ waves=31.5secs. per 1°. |
| | | | | Suva | | | |
| | P | 4 1 00 | | | | 16 | 0=03 57 08. |
| | S | 4 03 | | | | | (DT unknown). |
| | L | 5 10 | | | | | |

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

## 1924 April - May

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude $A_E$ μ | Amplitude $A_N$ μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | Wellington | | | | | |
| April 30 | O | 5 9 25 | | | | | Epicentre near Kermadec Is. |
| | P | 11 29 | | | | 8.4 | |
| | PR1 | 11 58 | | | | | |
| | S | 13 07 | | | | | Apia O=05 08 00. D=18° |
| | L | 13 35 | | | | | Riverview O=05 07 30. |
| | M1 | 15 31 | 16 | | 185 | | |
| | M2 | 19 28 | 16 | | 115 | | |
| | M3 | 21 35 | 16 | | 165 | | |
| | M4 | 24 26 | 15 | | 110 | | |
| | M5 | 27 05 | 11 | | 60 | | |
| | | Suva | | | | | |
| 30 | P | 5 9 00 | | | | 17 | O = 05h 05m |
| | S | 12 10 | | | | | DT unknown. |
| | L | 13 20 | | | | | DT probably about 4m. |
| | | Wellington | | | | | |
| 30 | i | 9 08 40 | | | | | |
| | eL | 14 25 | | | | | |
| | | Suva | | | | | |
| 30 | P | 9 10 00 | | | | | |
| | S | 14 3 | | | | 22.4 | DT unknown. |
| | L | 15 0 | | | | | |
| | | Wellington | | | | | |
| May 1 | e | 3 40 47 | | | | | |
| | L | 43 20 | | | s | | |
| 1 | eL | 9 08 25 | | | s | | |
| 1 | e | 20 21 30 | | | | | Ottawa O=19 54 20. |
| | L | 27 10 | | | | | |
| | P | 20 13.0 | | | | | (Milne). |
| | S | 20.0 | | | | 48 | |
| | L | 28.5 | | | s | | |
| | L2 | 42.4 | | | s | | Probably from a second 'quake. |
| 2 | eL | 1 57 41 | | | s | | |
| 3 | eL | 9 31 40 | | | s | | Other phases lost in microseisms. |
| 4 | iP | 16 55 51 | | | | 11.8 | |
| | iS | 58 09 | | | | | O=16 52 55. |
| | M | 58 22 | 10 | | 80 | | |
| | L | 59 12 | | | | | |
| 6 | P | 2 52 00 | | | | 11.7 | |
| | S | 54 17 | | | | | O=2 49 05. |
| | SR1 | 54 30 | | | | | |
| | L | 54 56 | | | | | |
| | M1 | 57 15 | 15 | | 54 | | |
| | M2 | 58 10 | 17 | | 74 | | |
| 6 | eL | 2 55.0 | | 1.0 | | | (Milne) |
| | L2 | 56.9 | | 1.4 | | | |
| | L3 | 58.6 | | 1.4 | | | |
| | L4 | 59.8 | | 1.0 | | | |

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

## 1924 May

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude AE μ | Amplitude AN μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | Suva | | | |
| May 6 | P | 2 52 15 | | | | 19.2 | |
| | S | 55 50 | | | | | DT unknown. |
| | L | 56 50 | | | | | Epicentre probably Kermadec Is. |
| | | | | Wellington | | | |
| 6 | eP | 16 21.3 | | | | 76.5 | (Milne) O=16h 9.4m |
| | S | 31.1 | | | | | (Ottawa)P-L=27 m 40s |
| | L | 51.1 | | | | | D = 82° |
| | | | | s | | | (Zi-ka-wei) D = 14°.7 |
| | | | | | | | O = 16 09 28. |
| | | | | Suva | | | |
| 6 | P | 16 19 10 | | | | 43 | DT unknown. |
| | L | 32 00 | | | | | Epicentre Pacific SE of Japan. |
| | | | | Wellington | | | |
| 7 | P | 0 24 10 | | | | 20 | |
| | eS | 27 51 | | | | | O = 00h19m30s. |
| | L | 29 20 | | | | | |
| | M1 | 30 20 | 15 | | 24 | | |
| | M2 | 31 40 | 8 | | 14 | | |
| 7 | e | 14 20 35 | | | | | (Milne) |
| | eL | 24 25 | | | | | |
| 7 | P | 15 37 42 | | | | 19.5 | |
| | S | 41 20 | | | | | O = 15 33 07 |
| | L | 43 00 | | | | | |
| | M1 | 45 50 | 15 | | 39 | | |
| | M2 | 46 22 | 10 | | 30 | | |
| 8 | eS | 5 39 40 | | | | | |
| | L | 40 30 | | | | | |
| | M | 42 45 | 12 | | 42 | | |
| | P | 5 38.9 | | | | 7.1 | (Milne) |
| | S | 40.4 | | | | | |
| | L | 40.8 | | | | | |
| | M1 | 42.4 | | 1.5 | | | (Milne) |
| | L2 | 44.5 | | | | | Tilt to south of 0".61 |
| | M2 | 44.9 | | 1.6 | | | |
| | L3 | 46 | | | | | |
| | | | | Suva | | | |
| | P | 5 40 40 | | | | | DT unknown. |
| | S | 44 20 | | | | | |
| | L | 45 25 | | | | | |
| | | | | Wellington | | | |
| 9 | e | 11 31 | | s | | | |
| 10 | eP | 2 52 00 | | | | 11.7 | |
| | iS | 54 17 | | | | | O = 02 49 05. |
| | SR1 | 54 32 | | | | | |
| | iL | 55 19 | | | | | |
| | M1 | 57 10 | 7 | | 38 | | |
| | M2 | 59 40 | 12 | | 42 | | |
| | M3 | 3 04 00 | 15 | | 60 | | |
| | M4 | 06 20 | 11 | | 43 | | |

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

## 1924 May - June

| Date 1924 | Phase | Time G.M.T h m s | Period s. | Amplitude AE μ | Amplitude AN μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | Wellington | | | |
| May 10 | eP | 2 52.0 | | | | | (Milne) |
| | S | 54.3 | | | | 11.8 | |
| | L | 55.4 | | | | | 0 = 02h 49m 04s |
| | M | 57.8 | | 1.5 | | | |
| | | | | Suva | | | |
| 10 | P | 2 53 20 | | | | 19.7 | |
| | S | 57 00 | | | | | 0 = 02h 48m 43s |
| | L | 58 00 | | | | | DT unknown. |
| | M | 3 02 20 | | | | | Epicentre probably Kermadec Is. |
| 12 | | | | | | | Tilt to South. 0".19 |
| | | | | Wellington | | | |
| 14 | P | 1 10 22 | | | | 21.2 | |
| | S | 14 15 | | | | | 0 = 01h 05m 27s |
| | L | 16 15 | | | | | |
| | M | 19 25 | 12 | | 14 | | |
| 17 | S | 3 59.2 | | | | | (Milne) |
| | L | 4 1.3 | | | | | |
| | M | 03.0 | | 0.7 | | | |
| 17 | e | 5 33 | | | | | Strong microseisms. (Milne) |
| | e | 40 | | | | | |
| | eL | 44.7 | | | | | |
| | M | 51 | | 0.9 | | | |
| 22 | P | 17 16 27 | | | | 6 | |
| | S | 17 39 | | | | | 0 = 17h 14m 55s |
| | L | 18 15 | | | | | |
| | M1 | 19 40 | 35 | | 147 | | |
| | M2 | 21 10 | 16 | | 99 | | |
| 24 | P | 2 24 45 | | | | 32.8 | |
| | S | 30 11 | | | | | C = 02h 17m 50s |
| | L | 33 40 | | | | | |
| | L2 | 37 35 | | | | | |
| | M1 | 39 20 | 23 | | 63 | | |
| | M2 | 41 25 | 20 | | 53 | | |
| 24 | e | 2 24.5 | | | | | (Milne) |
| | S | 29.9 | | | | | |
| | L | 34 | | s | | | |
| 24 | i | 23 37 08 | | | | | Small local shock. |
| 25 | e | 14 50 50 | | | | | |
| | L | 53 47 | | s | | | |
| 25 | i | 15 01 11 | | | | | |
| 25 | eL | 15 35 24 | | | | | |
| | M | 36 35 | 16 | | 20 | | |
| 28 | i | 10 14 05 | | | | | |
| June 11. | | | | | | | Small tremors all day. |

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

## 1924 June

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude AE μ | Amplitude AN μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | Wellington | | | | | |
| June 19 | i | 8 37 30 | | | | | |
| | e | 38 45 | | | s | | |
| 19 | eL | 17 43 20 | | | | | |
| | M | 45 10 | 11 | | 14 | | |
| 22 | | | | | | | Tilt to south, 0".19 |
| 23 | | | | | | | Tilt to south, 0".64 |
| 26 | iP | 1 41 45 | | | | | (N-S) |
| | M | 42 0 | 12 | | +730 | | Maximum in P wave. |
| | iS? | 45 15 | | | | | Photographic record of |
| | M1 | 56 35 | 12 | | +850 | | first L waves too faint |
| | L2 | 59 45 | | | | | to be distinguished. |
| | M2 | 2 01 35 | 12 | | +850 | | |
| | L3 | 04 05 | | | | | |
| | M3 | 07 00 | 12 | | +825 | | |
| | L4 | 11 30 | | | | | |
| | M4 | 12 20 | 10 | | +456 | | |
| | L5 | 14 15 | | | | | |
| | M5 | 14 45 | 10 | | +417 | | |
| | L6 | 18 30 | | | | | |
| | M6 | 21 25 | 10 | | -407 | | |
| | L7 | 24 30 | | | | | |
| | M7 | 2 25 15 | 10 | | +306 | | |
| | L8 | 28 00 | | | | | |
| | M8 | 28 45 | 11 | | -339 | | |
| | L9 | 30 20 | | | | | |
| | M9 | 31 25 | 12 | | +292 | | |
| | L10 | 33 40 | | | | | |
| | M10 | 36 00 | 12 | | +241 | | |
| | eL | 8 20 | | | s | | Series of sinusoidal L waves continue till $04^h\ 20^m$. |
| | eL | 11 33 | | | s | | |
| 26 | iP | 1 41.9 | | | | | (Milne) (E-W) |
| | M | 42.4 | 14 | | | | Maximum in P wave. |
| | i | 43.1 | | | | | |
| | i | 43.5 | | | | | |
| | i | 43.9 | | | | | |
| | iP | 44.5 | 5 | | | | First thought to be |
| | i | 45.1 | | | | | S wave. Probably the P |
| | i | 45.5 | >20 | | | | wave of a second shock. |
| | M1 | 1 45.5 | | | | | Owing to the boom |
| | to | 1 54.7 | | | | | striking the stops, the |
| | L2 | 1 56.3 | | | | | full amplitude of these |
| | M2 | 56.7 | 12 | | | | waves was not recorded, |
| | L3 | 58.5 | | | | | making it impossible to |
| | M3 | 59.5 | 10 | | | | locate the S and L waves. |
| | L4 | 2 0.6 | | | | | |
| | M4 | 1.2 | 9.5 | | | | Well marked sinusoidal |
| | | | | | | | $L_h$ waves continue till |
| | $L_{MA}$ | 4 32.6 | 0.6 | | | | $2^h\ 16^m$. |
| | $L_{MA}$ | 4 35.7 | 1.0 | | | | From first shock. |
| | | | | | | | From second shock. |

18.7

0 = $01^h\ 37^m\ 20^s$
Riverview 0=01 37 00
D = 25°.1
Apia 0 = 01 36 31.
D = 48°.3
Batavia 0 = 01 37 18
D = 65°.8
Zi-ka-wei D = 92° SSE.
Epicentre South of Macquarrie Is.

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

## 1924 June - July

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude $A_E$ μ | Amplitude $A_N$ μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | Suva | | | | | |
| June 26 | P | 1 41.6 | | | | | N-S component. |
| | S | 48.0 | | | | 42 | |
| | SR1 | 50.9 | | | | | DT unknown. |
| | SR2 | 51.7 | | | | | |
| | eL | 54.4 | | | | | |
| | L2 | 55.3 | | | | | |
| | | Wellington | | | | | |
| 30 | iP | 4 13 51 | | | | 0.5 | Local. |
| | L | 13 57 | | | 20 | | |
| 30 | iP | 15 57 05 | 3 | | | 93 | |
| | PR1 | 16 01 00 | | | | | O = $15^h\ 43^m\ 47^s$ |
| | PR2 | 03 10 | | | | | Ottawa O= 15 44 30 |
| | ScPcS | 07 45 | 13 | | 23 | | D = 79 |
| | iS | 08 20 | 9 | | 26 | | Osaka D = 18° |
| | SR1 | 12 35 | | | | | Ep. near Kurile Is. |
| | e | 21 00 | | | | | |
| | eL | 26 03 | | | | | |
| | M1 | 30 15 | 18 | | 190 | | |
| | M2 | 35 30 | 17 | | 177 | | |

(Note: 1924 June 30, magnification of Milne-Shaw No.13 = 250.)

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| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude $A_E$ μ | Amplitude $A_N$ μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | Wellington | | | | | |
| July 3 | eP | 4 54 10 | | | | 100 | Thibet. |
| | eS | 5 05 30 | | | | | Manila D = 38°.3 |
| | L | 31 43 | | | | | Victoria, B.C. O = |
| | M | 35 35 | 20 | | 23 | | $04^h40^m08^s$ D = 86°.3 |
| 5 | e | 22 45 15 | | | | | |
| | e | [illegible] | | | s | | (s = small) |
| 6 | eL | 16 12 30 | | | s | | |
| 7 | e | 2 43 12 | | | | 28.5 | |
| | S | 49 11 | | | | | |
| | L | 51 55 | | | | | |
| | M | 55 00 | 20 | | 46 | | Near Samoa. |

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

## 1924 July

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude $A_E$ μ | Amplitude $A_N$ μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | **Suva** | | | | | |
| July 7 | P | 2 41.2 | | | | 10.5 | |
| | S | 43.3 | | | | | DT unknown. |
| | i | 45.1 | | | | | |
| | i | 46.3 | | | | | |
| | | **Wellington** | | | | | |
| 8 | iP | 9 02 41 | | | | 4 | |
| | iS | 03 29 | | | | | O = $09^h\ 01^m\ 39^s$ |
| | L | 03 38 | 3 | | 28 | | |
| 8 | iP | 9 12 59 | | | | 3.9 | O = $09^h\ 11^m\ 58^s$ |
| | S | 13 45 | | | | | A repetition of the |
| | M | 14 00 | 4 | | 10 | | previous shock. |
| 8 | e | 20 51 00 | | | | | |
| | L | 56 45 | | | | | |
| | M | 59 20 | 17.5 | | 23 | | |
| 11 | iS | 20 12 00 | | | | | P wave lost in micro- |
| | eL | 34 20 | | | | | seisms. |
| | | | | | | | Large irregular devi- |
| 13 | i | 23 03 25 | | | | | ations all day. |
| | eL | 05 10 | | | | | |
| 14 | iP | 18 46 30 | | | | 4 | O = $18^h\ 45^m\ 28^s$ |
| | iS | 47 18 | | | s | | |
| 19 - 20 | | | | | | | Extremely large micr/ |
| | | | | | | | seisms (5.5μ). |
| 20 | eL | 9 30 40 | | | | | |
| | M | 34 10 | 15 | | 50 | | Other phases lost in |
| | | | | | | | microseisms. |
| | e | 9 27.7 | | | | | (Milne) E-W. |
| | i | 29.6 | | | | | |
| | i | 31.3 | | s | | | |
| 23 | iP | 2 59 12 | | | | 0.5 | O = $02^h\ 59^m\ 04^s$ |
| | L | 59 20 | | | s | | Small local shock. |
| 24 | eP | 4 58 25 | | | | 13.4 | O = $04^h\ 55^m\ 07^s$ |
| | iP | 58 31 | | | | | Epicentre approx.670 Km |
| | M3 | 59 15 | 10 | | -167 | | N. of Macquarrie Is. |
| | iS | 5 01 00 | | | | | Riverview O=04 55 24. |
| | L1 | 01 35 | | | | | D=16.6 ($\lambda$=49°S $\phi$=159° |
| | M1 | 07 42 | 10 | | +357 | | Manila D = 71° |
| | L2 | 11 50 | | | | | Apia O=04 54 5[illegible] |
| | M2 | 13 17 | 10 | | +314 | | D = 44°1 SW. |
| | L3 | 19 20 | | | | | Sinusoidal waves |
| | M3 | 20 30 | 10 | | -171 | | continue till 7 h |
| | L4 | 22 50 | | | | | |
| | M4 | 24 50 | 10 | | +171 | | |
| | iP | 4 58.3 | | | | 13.3 | (Milne) E-W. |
| | i | 58.5 | | | | | |
| | i | 58.7 | | | | | |

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

## 1924 July - August

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude AE μ | Amplitude AN μ | Distance in Degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | | Wellington | | | | |
| July 24 | i | 4 59.0 | | 3.5 | | | (Milne) E-W |
| | L | 5 01.6 | | | | | S wave uncertain in hour eclipse. |
| | M | 5 02.1 | | >20 | | | Owing to the boom striking the stops the full amplitude of these waves was not recorded. |
| | to | 5 04.9 | | | | | |
| | | | Suva | | | | |
| 24 | P | 4 59 10 | | | | 40.4 | |
| | S | 5 05 25 | | | | | |
| | SR1 | 08 15 | | | | | |
| | L | 10 50 | | | | | DT unknown. |
| | | | Wellington | | | | |
| 29 | P | 5 29 42 | | | | 58 | |
| | iS | 37 42 | | | | | 0 = $05^h\ 19^m\ 42^s$ |
| | L | 44 48 | | | | | |
| | M1 | 50 00 | 25 | | 57 | | Near Celebes. |
| | L2 | 54 15 | | | | | |
| | M2 | 55 15 | 16 | | 37 | | |
| | eS | 5 37.9 | | | | | |
| | L | 45.8 | | s | | | (Milne) E-W |
| | L2 | 52.6 | | | | 50 | |
| | M | 54.5 | | 2.2 | | | |
| Aug. 2 | eL | 2 22 05 | | | s | | |
| | eL | 17 32 15 | | | s | | Very distant shock. |
| 6 | eL | 0 30 55 | | | | | |
| | M | 34 | 17 | | 26 | | Other phases lost in strong micrpseisms. |
| | e | 0 22.7 | | | | | |
| | e | 30.7 | | | | | (Milne) E-W. |
| | eL | 31.7 | | s | | | |
| | L | 32.6 | | | | | |
| 6 | eL | 2 48 00 | | | | | |
| | M | 50 30 | 15 | | 14 | | Other phases lost in strong microseisms. |
| 6 | iP | 17 14 06 | | | | 1.6 | |
| | iS | 14 27 | | | | | |
| | iL | 14 31 | 3 | | 22 | | 0 = $17^h\ 13^m\ 42^s$. |
| 10 | eP | 6 14 48 | | | | | |
| | iS | 16 55 | | | | 10.6 | 0 = $06^h 12^m 10^s$. N-S. |
| | L | 17 46 | | | | | From $6^h 14^m 48^s$ till $6^h 19^m$ motion was governed by a strong sinusoidal wave of period = 30 secs. |
| | M1 | 18 48 | 15 | | 143 | | |
| | L2 | 19 56 | | | | | |
| | M2 | 20 50 | 20 | | 264 | | |
| | L3 | 21 40 | | | | | |
| | M3 | 23 05 | 18 | | 200 | | |
| | L4 | 26 05 | | | | | Sinusoidal L waves continue till $7^h$ - |
| | M4 | 26 55 | 18 | | 134 | | |

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

## 1924 August

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude AE μ | Amplitude AN μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | Wellington | | | | | |
| Aug. 10 | P | 6 14.8 | | | | | (Milne) E-W. |
| | S | 16.9 | | | | 10.5 | 0 = 06h 12m 11s |
| | L | 17.9 | | | | | |
| | M1 | 20.2 | | 9.6 | | | Zi-ka-wei 0-06 11 57 |
| | M2 | 24.2 | | 3 | | | D = 82°.9 |
| | | | | | | | Epicentre near Kermadec Islands. |
| 13 | iP | 9 34 12 | 6 | | | 22.4 | |
| | PR1 | 34 30 | | | | | 0 = 09h 29m 02s. |
| | PR2 | 34 39 | | | | | |
| | eS | 38 15 | | | | | |
| | SR1 | 39 00 | 7 | | | | |
| | SR2 | 39 15 | 7 | | | | |
| | L | 40 00 | | | | | |
| | M1 | 41 30 | 15 | | 61 | | |
| | L2 | 43 30 | | | | | |
| | M2 | 44 15 | 10 | | 38 | | |
| | eP | 9 34.3 | | | | | (Milne) E-W. |
| | S | 37.9 | | | | 21.4 | |
| | L | 39.6 | | | | | |
| | M | 42.1 | | 1.1 | | | |
| 13 | e | 13 54 00 | | | | | |
| | L | 14 16 | | | s | | |
| 13 | e | 15 56 20 | | | | | |
| | L | 16 22 | | | s | | |
| 14 | eS | 18 25 18 | | | | | P wave lost in strong microseisms. (N-S). |
| | SR1 | 30 43 | | | | | |
| | SR2 | 33 35 | | | | 80 | |
| | L | 42 00 | | | | | |
| | M1 | 47 30 | 20 | | 76 | | |
| | L2 | 51 15 | | | | | |
| | M2 | 52 20 | 16 | | 38 | | |
| | L3 | 53 00 | | | | | |
| | M3 | 53 30 | 17 | | 39 | | |
| | L4 | 55 15 | | | | | |
| | M4 | 55 30 | 17 | | 22 | | |
| | L5 | 58 15 | | | | | |
| | M5 | 19 01 10 | 17 | | 30 | | |
| | L6 | 04 00 | | | | | |
| | M6 | 06 25 | 18 | | 24 | | |
| | L7 | 08 00 | | | | | |
| | M7 | 09 15 | 17 | | 22 | | |
| | L8 | 10 15 | | | | | |
| | M8 | 11 00 | 17 | | 30 | | |
| | L9 | 13 30 | | | | | |
| | M9 | 15 20 | 17 | | 30 | | |
| | eP | 18 15.3 | | | | | (Milne) E-W. |
| | S | 25.3 | | | | 79.2 | 0 = 18h 03m 04s. |
| | SR1 | 31.0 | | | | | Apia 0-18 03 06 |
| | SR2 | 34.2 | | | | | D = 66° |

# EARTHQUAKE REPORTS, NEW ZEALAND AND FIJI.

Register from: Dominion Observatory, Wellington, and Suva, Fiji.

1924 August

| Date 1924 | Phase | Time G.M.T. h m s | Period s. | Amplitude AE μ | Amplitude AN μ | Distance in degrees | Remarks |
|---|---|---|---|---|---|---|---|
| | | | Wellington | | | | |
| Aug. 14 | L1 | 18 44.2 | | | | | Formosa O = 18 02 21 D=22° |
| | M1 | 45.6 | | 2.3 | | | (Milne) E-W. |
| | L2 | 47.0 | | | | | Batavia O=18 02 39. |
| | M2 | 47.8 | | 3.3 | | | D = 52°.2 |
| | L3 | 49.0 | | | | | Manila D = 33° |
| | M3 | 49.8 | | 1.8 | | | Victoria, B.C. O = 18h 02m 40s. D = 66°.6 |
| | | | | | | | Epicentre near Japan. |
| 16 | iP | 5 53 56 | | | | 2.7 | |
| | iS | 54 28 | | | | | O = 05h 53m 14s. |
| | iL | 54 34 | 2 | | 16 | | |
| 17 | iP | 2 06 35 | | | | | Small local shock. |
| 17 | iP | 2 07 37 | | | | | Small local shock. |
| 17 | iP | 2 08 40 | | | | | Small local shock. |
| 22 | eP | 6 33 40 | | | | 8.3 | |
| | S | 35 19 | | | | | O = 06h 31m 34s. |
| | eL | 36 03 | | | s | | |
| 25 | e | 2 44 45 | | | | | Distant shock. |
| | eL | 3 01 00 | | | s | | |
| 25 | i | 3 40 22 | | | | | Small local shock. |
| | i | 41 39 | | | | | |
| 29 | | | | | | | Very strong microseisms |
| 30 | iP | 3 15 55 | | | | 65 | O = 03h 05m 11s. |
| | PR1 | 18 54 | | | | | Apia O=03 04 56 D=67°. |
| | PR2 | 20 13 | | | | | Batavia O=03 04 39 |
| | iS | 24 35 | | | | | D = 25°.3 |
| | L | 33 20 | | | | | Zi-ka-wei O=03 05 28. |
| | M1 | 3 35 | 20 | | 73 | | D = 19°.1 |
| | M2 | 3 44 | 18 | | 60 | | Formosa D = 13°.5 |
| | | | | | | | Manila D = 6°. |
| | P | 3 15.5 | | | | | (Milne) E-W. |
| | S | 24.3 | | | | 66.4 | O = 03h 04m 36s. |
| | L | 35.0 | | | | | |
| | M | 39 | 2.5 | | | | Epicentre East of Mindanao. |
| | | | Suva | | | | |
| | P | 5.3 | | | | 58 | O = 03h 05m 20s. |
| | S | 23.3 | | | | | |

C. E. Adams

Dominion Seismologist.

# EARTHQUAKE REPORTS, NEW ZEALAND

Register from Dominion Observatory, Wellington. 1924, September.
0 hours = Greenwich Midnight

Instruments:
(a) Milne-Shaw No.18(N-S). Magnification, 250. Magnetic damping, 22-1. Pendulum period, 12 seconds.
(b) Milne No. 20(E-W). Magnification, 5.6 Undamped. Pendulum period, 25 seconds.

The readings given are those of the Milne-Shaw instrument unless otherwise stated.

| Date | Phase | Time G.C.M.T. h m s | Period | Amplitude AE mm | Amplitude AN μ | Remarks |
|---|---|---|---|---|---|---|
| 1924 September 1 | P | 9 24 16 | | | | Δ=1° |
| | iL | 24 26 | | | S | Small local shock. |
| 5 | iP | 7 05 33 | | | | Δ=3°.5 |
| | iL | 06 20 | 1 | | 18 | Extremely strong microseisms. |
| 7 | i | 8 09 00 | | | | |
| | eL | 10 47 | | | S | |
| 7 | i | 18 52 10 | | | | |
| | eL | 53 50 | | | S | |
| 8 | eL | 23 43 15 | | | S | |
| 13 | P | 14 54 05 | | | | Very distart shock. |
| | eS? | 15 07 00 | | | | Reported felt in Armenia. |
| | e | 35 | | | | |
| | eL | 51 30 | 25 | | 20 | |
| | F | 17 30 | | | | |
| 14 | iP | 1 47 38 | | | | Δ=25° |
| | S | 52 04 | | | | O=1h 41m 59s. |
| | L | 53 35 | | | | |
| | $L_2$ | 57 20 | 10 | | 9 | |
| 14 | iS | 13 36 42 | | | | Δ=93° |
| | eL | 57 30 | | | | Uccle. Δ=78°.3 |
| | | | | | | Ottawa. Δ=(64°.8) |
| | M | 14 05 30 | 18 | | 10 | Epicentre. Aleutian Is. |
| 14 | eP | 14 19 03 | | | | F lost in following shock. |
| | iS | 27 42 | | | | Δ=65° |
| | e | 36 0 | | | | Formosa. Δ=11°.7 |
| | M | 50 0 | 20 | | 21 | Manila. Δ=10° |
| | F | 15 30 + | | | | |
| 14 | e | 15 51 40 | | | | Epicentre E of Luzon. |
| | eL | 55 45 | | | | |
| | L | 16 00 20 | | | S | |
| 18 | eL | 2 10 28 | | | S | |
| | F | 3 + | | | | |
| 19 | e | 6 58 55 | | | | |
| | eL | 7 03 32 | | | | |

# EARTHQUAKE REPORTS, NEW ZEALAND
## Dominion Observatory, Wellington.
## 1924 September - October - November.

| Date | Phase | Time G.C.M.T. h m S | Period | Amplitude $A_E$ mm | Amplitude $A_N$ μ | Remarks |
|---|---|---|---|---|---|---|
| 1924 September 19 | L | 7 04 50 | | | | |
| | M | 05 20 | 16 | | 18 | |
| | F | 8 + | | | | |
| 25 | eL | 4 10 11 | | | | Initial phases lost in microseisms. |
| | M | 14 30 | 10 | | 15 | |
| | F | 5 + | | | | |
| 27 | i | 4 14 02 | | | | |
| | eL | 25 50 | | | | |
| | $L_1$ | 28 00 | | | | Microseisms of exceptionally short period (=2 sec.) |
| | $L_2$ | 29 30 | | | | |
| | $L_3$ | 30 50 | | | | |
| | $L_4$ | 32 25 | | | | Regular sirusoidal L waves. |
| | M | 32 40 | 15 | | 15 | |
| October 3 | iP | 8 52 40 | | | | Δ=2°.8 |
| | iL | 53 18 | 1 | | 30 | Small local. |
| 5 | $iP_N$ | 13 01 06 | | | | Δ=21°.2 |
| | $iS_N$ | 05 00 | | | | O=12h 56m 09s. |
| | $L_E$ | 06 24 | | | | |
| | $M_E$ | 07 48 | | 0.7 | | |
| 28 | iP | 9 12 10 | | | | Δ=0°.6 |
| | iL | 12 18 | | | S | Small local. |
| November 1 | e | 8 56 12 | | | | Initial phases lost in strong microseisms. |
| | M | 8 59 | 11 | | 20 | |
| 5 | P | 8 27 10 | | | | Δ=24°.7 |
| | S | 41 32 | | | | O=8h 21m 25s. |
| | L | 43 21 | | | | Apia. Δ=4° |
| | M | 49 | 11 | | 15 | Epicentre S of Samoa. |
| | F | 9 40 + | | | | |
| | SUVA | | | | | |
| | P | 8 32.9 | | | | Δ=7°.5 |
| | L | 34.7 | | | | ΔT unknown. |
| | WELLINGTON | | | | | |
| 9 | e | 4 25 45 | | | | |
| | M | 4 31 | | | S | |
| 18 | P | 8 35 54 | | | | Δ=16°.5 |
| | S | 39 02 | | | | O=8h 21m 55s. |
| | L | 39 52 | | | | |
| | $M_1$ | 42 00 | 15 | | 75 | Apia. Δ=19° |
| | $L_2$ | 44 20 | | | | |
| | $M_2$ | 44 45 | 12 | | 60 | Epicentre N of Kermadec Is. |
| | $M_3$ | 49 55 | 14 | | 68 | |
| | $M_4$ | 56 15 | 14 | | 68 | |
| | SUVA | | | | | |
| | P | 8 32.8 | | | | Δ=11°.2. |
| | S | 35.0 | | | | |
| | L | 35.7 | | | | ΔT unknown. |

EARTHQUAKE REPORTS, NEW ZEALAND
Dominion Observatory, Wellington.

1924 November - December.

| Date | | Phase | Time G.C.M.T. h | m | s | Period | Amplitude AE mm | AN μ | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| 1924 November | | | | | | WELLINGTON | | | |
| | 13 | eL | 12 | 25 | 30 | | | S | |
| | 13 | e | 13 | 14 | 20 | | | | |
| | | M | | 19 | 15 | | | S | |
| | 16 | e | 12 | 52 | 18 | | | | |
| | | M | | 54 | 20 | 12 | | 14 | |
| | 18 | iP | 3 | 46 | 12 | | | | S and L waves indistinguishable. |
| | | M | | 47 | 45 | 1 | | 34 | Small near shock. |
| | | F | 4 | + | | | | | |
| | 19 | iP | 16 | 44 | 30 | | | | Δ=2°.7 |
| | | iL | | 45 | 05 | 1 | | 20 | |
| December | | | | | | | | | |
| | 1 | iP | 16 | 25 | 08 | | | | Δ=4° |
| | | iS | | 25 | 55 | | | | O=16h 24m 06s. |
| | | iL | | 26 | 06 | | | | |
| | | M | | 26 | 50 | 2 | | 40 | |
| | 9 | iP | 12 | 00 | 57 | | | | Δ=39°.8 |
| | | iS | | 07 | 07 | | | | O=11h 53m 04s. |
| | | $SR_1$ | | 09 | 39 | | | | |
| | | $SR_2$ | | 10 | 20 | | | | |
| | | eL | | 12 | 12 | | | | |
| | | $L_1$ | | 14 | 36 | | | | |
| | | $L_2$ | | 16 | 00 | | | | |
| | | M | | 17 | 00 | 14 | | 13 | |
| | | $L_2$ | | 17 | 50 | | | | |
| | 9 | iP | 16 | 29 | 32 | | | | Δ=39°.8 |
| | | iS | | 35 | 48 | | | | O=16h 21m 45s. |
| | | eL | | 41 | 00 | | | | |
| | | $L_1$ | | 43 | 27 | | | | An exact repetition of the |
| | | $L_2$ | | 45 | 05 | | | | previous quake, though |
| | | M | | 45 | 30 | 15 | | 7 | weaker. |
| | | $L_2$ | | 46 | 20 | | | | |
| | 12 | iS | 9 | 03 | 24 | | | | Δ=36° |
| | | eL | | 07 | 50 | | | | P wave lost ir microseisms. |
| | | M | | 12 | 10 | 16 | | 10 | |
| | 13 | eL | 0 | 16 | 45 | | | | Other phases lost in |
| | | $L_1$ | | 19 | 12 | | | | microseisms. |
| | | M | | 20 | 15 | 12 | | 11 | |
| | | $L_2$ | | 25 | 0 | | | | |
| | 15 | i? | 20 | 54 | 50 | | | S | Doubtful - might be |
| | | i? | | 59 | 12 | | | S | microseisms. |
| | | iL | | 59 | 58 | | | | |
| | | $M_1$ | 21 | 00 | 25 | 15 | | 23 | |
| | | $M_2$ | | 08 | 30 | 15 | | 25 | |
| | | F | 21 | 40 | + | | | | |