No. 7—1

# KÔTI Meteorological Observatory

Jan.1~Febr.2, 1933

## SEISMOLOGICAL BULLETIN

$\varphi = 33°33'28''N$ $\lambda = 133°31'52''E$ h = 40.4m

Underground : Serpentin.

Consants of the Seismographs

| Date | Apparatus | Component | $T_o$ | $\varepsilon$ | $\frac{r}{T_o^2}\left(\frac{mm}{sec^2}\right)$ | V |
|---|---|---|---|---|---|---|
| | Wiechert 200kg | N | 4.6 | 8 | 0.002 | 70 |
| | 〃 〃 | E | 6.4 | 10 | 〃 | 70 |
| | Wiechert 80kg | Z | 4.2 | 7 | 0.005 | 65 |
| | Omori 16kg | N | 20.0 | 3 | 0.004 | 20 |
| | 〃 | E | 20.0 | 3 | 0.004 | 20 |

| No. | Date | App. | Phase | G.M.C T | | | Period | Amplitude | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | h | m | s | s | $A_E$ | $A_N$ | $A_Z$ | |
| | | | | | | | | μ | μ | μ | |
| 1 | Jan. 1 | W | eP | 08 | 58 | 21 | | | | | |
| | | | eS | | | 54 | | | | | |
| | | | F | 09 | 03 | | | | | | |
| 2 | Jan. 3 | W | eP | 15 | 28 | 37 | | | | | 144.0E, 40.4N C.M.O. |
| | | | eL | | 31 | 00 | | | | | 宮古東北東沖 |
| | | | eQ | | | 50 | | | | | |
| | | | M | | 32 | 30 | 20 | 150 | 150 | | |
| | | | F | | 50 | | | | | | |
| 3 | Jan 4 | W | eP | 01 | 27 | 40 | | | | | 145.0E, 25.8N C.M.O. |
| | | | $L?_N$ | | 30.1 | | 20 | | | | 父島南東沖 |
| | | | $L?_E$ | | 31 | | | | | | |
| | | | F | 02 | 10 | | | | | | |
| 4 | Jan. 7 | W | $eP_Z$ | 04 | 09 | 16 | | | | | 144.0E, 40.3N C.M.O. |
| | | O | eS | | 11 | 23 | | | | | |
| | | 〃 | eL | | 12 | 16 | | | | | |
| | | 〃 | M | | 13 | 07 | | | | | |
| | | 〃 | $C_E$ | | | 48 | | | | | |
| | | 〃 | $C_N$ | | 15.0 | | | | | | |
| | | | F | 05 | 00 | | | | | | |
| 5 | Jan. 7 | W | eP | 10 | 41 | 48 | | | | | 132.8E, 34.8N C.M.O. |
| | | | $iS_E$ | | 42 | 06 | | | | | 廣島縣三次地方 |
| | | | F | | 44 | | | | | | 本山 微震 |
| 6 | Jan. 8 | W | εP | 06 | 31.7 | | | | | | |
| | | | εS | | 34.2 | | | | | | |
| | | | F | | 50 | | | | | | |
| 7 | Jna. 9 | W | P | 02 | 10 | 22 | | | | | |
| 8 | Jan. 14 | W | $eP_Z$ | 02 | 11 | 06 | | | | | Near Mt. Aso |
| | | | $eS_{NE}$ | | | 37 | | | | | 阿蘇山附近 |
| | | | eL | | | 45 | | | | | |
| | | | $eQ_H$ | | | 54 | 5.0 | 15 | 25 | | |
| | | | C | | 12 | 09 | | | | | |
| | | | F | | 16 | | | | | | |
| 9 | Jan. 14 | W | eL | 06 | 34 | 44 | | | | | Ditto |
| 10 | Jan. 15 | W | M | 10 | 57.3 | | 2 | 3 | 5 | | |
| 11 | Jan. 15 | W | ε | 18 | 10 | | | | | | |
| | | | eS | | 15 | 45 | | | | | |
| | | | F | | 40 | | | | | | |
| 12 | Jan. 20 | W | eP | 18 | 09 | 20 | | | | | 伊豫灘 |
| | | | eS | | | 32 | | | | | |
| 13 | Jan. 21 | W | ε | 19 | 35 | | | | | | |
| | | | F | 21 | | | | | | | |
| 14 | Febr. 2 | W | $ePz$ | 22 | 16 | 09 | | | | | |
| | | | $e_E$ | | 19 | 41 | | | | | |
| | | | $e_{EN}$ | | | 55 | | | | | |
| | | | $\varepsilon L_E$ | | 23.6 | | | | | | |
| | | | F | | 40 | | | | | | |

M. Miyamoto

No. 7—2

# KÔTI Meteorological Observatory

Febr. 4—Mar. 2, 1933

## SEISMOLOGICAL BULLETIN

$\varphi = 33°33'28''N$ $\lambda = 133°31'52''E$ $h = 40.4m$

Underground : Serpentin.

Consants of the Seismographs

| Date | Apparatus | Component | $T_o$ | $\varepsilon$ | $\frac{r}{T_o^2}\left(\frac{mm}{sec^2}\right)$ | V |
|---|---|---|---|---|---|---|
| March 2 | Miechert 200kg | N | 4.7 | 8 | 0.002 | 73 |
| 1933 | 〃 〃 | E | 6.1 | 10 | 〃 | 65 |
| | Wiechert 80kg | Z | 3.7 | 3 | 0.004 | 70 |
| | Omori 16kg | N | 20.0 | 8 | 0.004 | 20 |
| | 〃 | E | 20.0 | 3 | 0.004 | 20 |

| No. | Date | App. | Phase | G.M.C T | | | Period | Amplitude $A_E$ | Amplitude $A_N$ | Amplitude $A_Z$ | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | h | m | s | s | μ | μ | μ | |
| 15 | Febr. 4 | W | $iP_Z$ | 06 | 19 | 46 | | | | — | 父島西北西沖合 (C.M.O.) |
| | | | eS | | 21 | 12 | | | | | |
| | | | F | | 24 | | | | | | |
| 16 | Febr. 6 | W | $eP_H$ | 07 | 17 | 40 | | | | | |
| | | | $eP_Z$ | | | 41 | | | | | |
| | | | S | | 18 | 10 | | | | | |
| | | | L | | | 24 | | | | | |
| | | | M | | | 30 | 5.0 | | 15 | | |
| | | | C | | | 44 | | | | | |
| | | | F | | 23 | | | | | | |
| 17 | Febr. 7 | W | $\varepsilon P_Z$ | 01 | 28 | 11 | | | | | |
| | | | $eS_H$ | | | 48 | | | | | |
| | | | L | | | 57 | | | | | |
| | | | M | | 29 | 02 | 3.6 | | 15 | | |
| | | | C | | | 14 | | | | | |
| | | | F | | 34 | | | | | | |
| 18 | Febr. 8 | W | $\varepsilon$ | 21 | 57 | | | | | | |
| | | | $\varepsilon L$ | | 57.5 | | | | | | |
| 19 | Febr. 9 | W | $iP_{EZ}$ | 03 | 58 | 09 | | −4 | | +6 | |
| | | | $iS_N$ | | 59 | 04 | | | | | |
| | | | F | 04 | 18 | | | | | | |
| 20 | Febr. 13 | W | $\varepsilon$ | 03 | 06 | | | | | | |
| | | | M | | 10.8 | | | | | | |
| | | | F | 04.5 | | | | | | | |
| 21 | Febr. 13 | W | $eP_Z$ | 06 | 52 | 35 | | | | | |
| | | | S | | 54 | 02 | | | | | |
| | | | M | | | 35 | 3.5 | 5 | 5 | | |
| | | | F | | 58 | | | | | | |
| 22 | Febr. 13 | W | S | 13 | 02 | 17 | | | | | |
| | | | L | | | 25 | | | | | |
| 23 | Febr. 18 | W | $eP_Z$ | 08 | 18 | 10.5 | | | | | |
| | | | $i\bar{P}_Z$ | | | 15.4 | | | | | |
| | | | $e\bar{P}_N$ | | | 〃 | | | | | |
| | | | $eS_N$ | | | 27.4 | | | | | |
| | | | $i\bar{S}_{EN}$ | | | 31.5 | | | | | |
| | | | M | | | 35 | 2 | 35 | 25 | 30 | |
| | | | C | | | 41 | | | | | 高知測候所 微震 |
| | | | F | | 22 | | | | | | 本山測候所 〃 |
| 24 | Febr. 19 | W | $\varepsilon$ | 04 | 29.3 | | | | | | |
| | | | $\varepsilon$ | | 40.3 | | | | | | |
| 25 | Febr. 22 | W | $eP_Z$ | 08 | 29 | 11 | | | | | |
| | | | $e_N$ | | 53 | 01 | | | | | |
| | | | eL | 09 | 23.3 | | 24 | | | | |
| | | | F | 10.5 | | | | | | | |
| 26 | Febr. 27 | W | e | 17 | 16 | 28 | | | | | |
| 27 | March 2 | W | $\varepsilon P_Z$ | 17 | 33 | 27 | | | | | Very faint short period wave |
| | | W | $eP_{2H}$ | | | 32 | Ca. 24 | — | — | + | 144.6E, 39.2N (C.M.O.) |
| | | O | $eP_{NE}$ | | | 〃 | Ca. 24 | −700 | −420 | | Long waves superposing short waves |
| | | W | $iP_{3Z}$ | | | 39 | 5〜6 | | | — | between P & S |
| | | W | $eP_{3H}$ | | | 〃 | 〃 | — | — | | $47^s$, $52^s$, $39^s$, $32^s$, $25^s$, $20^s$ |
| | | O | $eS_H$ | | 35 | 28 | | | | | $m_{NE}$ 02 34 42 |
| | | W,O | iS* | | | 50 | | | | | Tp=$35^s$(mean of 39 & 32) |
| | | W,O | iS | | 36 | 14 | | mm | mm | | E $6^{mm}$ N $5^{mm}$ |
| | | O.P.S. | $M_H$ | | | 56 | 26 | 18 | 18 | mm | |
| | | W | $M_Z$ | | 37 | 33 | 24 | | | 13 | |
| | | W | $M_Z$ | | 38 | 49 | 150 | | | 11 | 三陸沖の大地震津浪あり 死あり |
| | | | $C_Z$ | | 42.8 | | | | | | |
| | | | E | lost in no. 30 | | | | | | | M. Miyamoto |

No. 7—4

# KOTI Meteorological Observatory

March 8—April 9, 1933

## SEISMOLOGICAL BULLETIN



| No. | Date | Ap p. | Phase | G.M.C.T h | m | | Period s | Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53 | March 8 | W | iP | 10 | 27 | 37 | | | | | |
| | | | eS | | | 48 | | | | | 高知市内微震を感じたる所あり |
| | | | F | | 20 | | | | | | |
| 54 | March 9 | W | iPz | 04 | 23 | 47 | | | | | 伊豫灘 |
| | | | F | | 27 | | | | | | 熊野灘 |
| 55 | March 9 | W | ε | 19 | 38 | | | | | | |
| 56 | March 11 | W | ε | 02 | 39 | | | | | | 福井—九頭龍川河口 (C.M.O) |
| 57 | March 11 | W | ε | 14 | 25.4 | | | | | | |
| | | W,O. | εL | | 29.2 | | | | | | |
| | | W | Q | | 31.8 | | 15 | | | | |
| | | W | F | 15 | 20 | | | | | | |
| 58 | March 11 | W | iP | 19 | 34 | 52.3 | | | | | |
| | | | eS | | 36 | 30 | | +8 | —6 | —10 | 140° 53′ E ; 26° 29′ N, |
| | | | iS | | | 35.6 | | | | | H=510km |
| | | | m | | | 43 | | | | | F=19—32—45 |
| | | | $iS_c$ $S_E$ | | 46 | 37.8 | 6.0 | 110 | 80 | 40 | △=9.°5 |
| | | | $eS_c$ $S_N$ | | | 37.8 | | | | | |
| | | | F | 20.0 | | | | | | | |
| 59 | March 12 | W | $iP_{EZ}$ | 07 | 38 | 15 | | + | | ∓ | 安藝灘 |
| | | | $eP_N$ | | | 27 | | | | | 132.°6E, 34°0N (C.M.O) |
| | | | S | | | — | | | | | |
| | | | M | | | | 1.3 | 45 | 25 | 35 | |
| | | | F | | 41 | | | | | | |
| 60 | March 13 | W | $\varepsilon L_E$ | 07 | 18 | | | | | | 名野川村 微震 |
| | | | F | 07.5 | | | | | | | |
| 61 | March 17 | W | $e_Z$ | 16 | 01 | 25 | | | | | |
| | | | $eS_N$ | | 05 | 13 | | | | | |
| | | | F | 17 | | | | | | | |
| 62 | March 17 | W | $eP_Z$ | 19 | 38 | 18 | | | | | |
| | | W | $\varepsilon S_N$ | | 43.3 | | | | | | |
| | | O | L | | 46 | | | | | | |
| | | O | $M_{N1}$ | | 47 | | | | | | |
| | | | | to | 50.4 | | 21 | | 40 | | |
| | | O | $M_{N2}$ | | 50.4 | | | | | | |
| | | | | to | 52 | | 18 | | 70 | | |
| | | O | F | 20.5 | | | | | | | |
| 63 | Macch 18 | W | $iP_{EZ}$ | | | | | | | | |
| | | | $eP_N$ | 15 | 52 | 49.5 | | +4 | | —4 | 139.°5E, 32.°3N |
| | | | $iS_N$ | | | | | | —1 | | H=160km |
| | | | $eS_E$ | | 53 | 50 | | | | | F=15—51—30.5 |
| | | | $m_N$ | | | 52 | | | | | |
| | | | $m_{EZ}$ | | | 55 | 5.0 | | 35 | | △=5.°15 |
| | | | $eS_cS_N$ | 16 | 06 | 33 | 3.0 | 50 | | 40 | |
| | | | F | | 10 | | | | | | |
| 64 | March 20 | W | P | 17 | 09 | 21 | | | | | |
| | | | S | | | 31 | | | | | 豊後水道 (C.M.O) |
| | | | F | | 10 | | | | | | 本山 微震 |
| 65 | March 21 | W | $eP_Z$ | 23 | 18 | 54 | | | | | |
| | | W | $\varepsilon Sg_H$ | | 19 | 30 | | | | | 阿蘇山 |
| | | O | $eL_N$ | | | 30 | 8 | | | | |
| | | W | Q | | | 43 | 5.0 | | | | |
| | | W | M | | | 46 | 5.0 | 40 | 15 | 25 | |
| | | W | $C_E$ | | | 54 | | | | | |
| | | W | F | | 25 | | | | | | |
| 66 | March 23 | W | $eP_Z$ | 14 | 52 | 19 | | | | | |
| | | | S | | | 44 | | | | | |
| | | | F | | 53 | | | | | | |
| 67 | March 23 | W | ez | 17 | 43 | 44 | | | | | |
| | | | iz | | 44 | 47 | | | | | |
| | | | $\varepsilon L_N$ | | 51.7 | | | | | | |
| | | | $M_N$ | | 52.4 | | | | | | |
| | | | | to | 54 | | 15 | | | | |
| | | | F | 18 | 20 | | | | | | |
| 68 | March 25 | W | $eP_Z$ | 12 | 50 | 58 | | | | | |
| | | W | $\varepsilon S_H$ | | 51 | 25 | | | | | 131°1E, 32.°9N 阿蘇山 (C.M.O.) |
| | | W | $iSg_N$ | | | | | | | | |
| | | O | $eL_N$ | | | 34 | 9 | | 70 | | |
| | | W | $iM_N$ | | | 45 | 5.1 | | | | |
| | | W,O | M | | | 48 | 5 | 20 | 70 | 20 | |
| | | W | $C_N$ | | 52.0 | | | | | | |
| | | | F | 13 | 02 | | | | | | |
| 69 | April 1 | W | εP | 16 | 01 | 21 | | | | | |
| | | | $eSg_E$ | | 03 | 49 | | | | | 143°5E, 39.°5N (C.M.O.) |
| | | | $\varepsilon Sg_E$ | | | | | | | | 三陸強震餘震 |
| | | | F | | 30 | | | | | | Aftershock of No.27 |
| 70 | April 1 | W | $eP_{EZ}$ | 22 | 43 | 32 | | | | | 144.°8E, 38.°6N (C.M.O.) |
| | | | $\varepsilon P_N$ | | | | | | | | |
| 71 | April 3 | W | iPg | 17 | 44 | 14 | | | | | 高知市近傍 |
| | | | iSg | | | 17.5 | | | | | |
| | | | F | | 45 | | | | | | |
| 72 | April 3 | W | $\varepsilon P_E$ | 02 | 49 | 00 | | | | | 144.°0E, 39.°2N (O.M.O) |
| | | | $eP_Z$ | | 49 | 03 | | | | | 三陸強震餘震 |
| | | | $\varepsilon L_N$ | | 50.9 | | | | | | Aftershock of No.27 |
| | | | $M_E$ | | 52 | 22 | 18 | 160 | | | |
| | | | $M_E$ | | 57 | 08 | 14 | 80 | | | |
| | | | P | 03 | 30 | | | | | | |

(M.M.)

# KOTI OBSERVATORY



APRIL (1933)

| | | | | | |
|---|---|---|---|---|---|
| 1 | εP | 16 | 01 | 21 | |
| | eS̄N | | 03 | 49 | |
| | F | | 30 | | |
| 1 | ePEZ | 22 | 43 | 32 | |
| 9 | εPE | 02 | 49 | 00 | |
| | ePZ | | | 03 | |
| | εLN | | 50.9 | | |
| | ME | | 52 | 22 | |
| | ME | | 57 | 08 | |
| | F | 03 | 30 | | |
| 16 | eP | 19 | 23 | 46 | |
| | eSH | | 29 | 26 | |
| 19 | ePZ | 06 | 47 | 55 | |
| | e | | 48 | 03 | |
| | eSE | | 51 | 04 | |
| | F | 07 | 30 | | |
| 21 | εPZ | 20 | 40 | 30 | |
| | S | | 41 | 45 | |
| | F | | 47 | | |
| 23 | ε | 06 | 10 | | |
| | S | | 20.0 | | |
| | M | | 50 | | |
| 23 | εPEZ | 07 | 16 | 02 | |
| | εSN | | 17 | 53 | |
| | M | | 25 | 19 | |
| | F | 080 | | | |
| 27 | εPZ | 02 | 45 | 35 | |
| | εSH | | 53 | 14 | |
| | F | 04.0 | | | |

MAY

| | | | | | |
|---|---|---|---|---|---|
| 30 | P | 19 | 54 | 56 | |
| | S | | 583 | | |
| | L | | 59 | | |
| | F | 20 | 20 | | |
| 16 | εPZ | 01 | 20 | 26 | |
| | εLN | | 35 | | |
| | M | | 37 | | |
| | F | 020 | | | |
| 23 | εPN | 16 | 37 | 22 | |
| | eZ | | | 36 | |
| | M | | 38 | 56 | |
| 23 | εPN | 16 | 52 | 41 | |
| | eH | | 53 | 07 | |
| | M | | | 53 | |
| 28 | iP | 20 | 40 | 04 | |

JUNE

| | | | | | |
|---|---|---|---|---|---|
| 2 | ePH | 04 | 43 | 51 | |
| | eSH | | 44 | 52 | |
| | F | | 48 | | |
| 2 | ePNZ | 07 | 39 | 31 | |
| | | | | ~33 | |
| | e | | | 44 | |
| | εLN | | 403 | | |
| | M | | 40 | 44 | |
| | C | | 42.7 | | |
| | F | 08.3 | | | |

No. 7—5

# KOTI Meteorological Observatory

April 9～May 28, 1933

## SEISMOLOGICAL BULLETIN



| No. | Date | App. | Phase | G.M.C.T | Period | Amplitude | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | $A_E$ | $A_N$ | $A_Z$ | |
| | | | | h m s | s | μ | μ | μ | |
| 73 | April 9 | W | εS | 10 35.4 | | | | | Aftershock of No.27 |
| | | | F | 46 | | | | | 144.°2E, 39.°2N C.M.O. |
| 74 | April 13 | W | $\varepsilon P_N$ | 03 53 44 | | | | | 阿蘇山近傍の地震 |
| | | | F | 56 | | | | | |
| 75 | April 15 | W | iPg | 00 45 43 | | | | | 高知弱本山近傍の地震 |
| | | | Sg | 49.5 | | | | | 本山 微震 |
| | | | F | 47 | | | | | 昭和8年4月15日午前9時45分 |
| 76 | April 16 | W | eP | 19 23 46 | | | | | |
| | | | eS | 29 26 | | | | | |
| | | | F | 40 | | | | | |
| 77 | April 17 | W | ε | 03 00.9 | | | | | aftershock of No.27 |
| 78 | April 19 | W | $eP_Z$ | 06 47 55 | | | | | 121.°7E, 24.°3N |
| | | | e | 48 03.0 | | | | | 臺灣一大濁水溪河口 C.M.O. |
| | | | $eS_E$ | 51 04 | | | | | |
| | | | F | 07 30 | | | | | |
| 79 | April 21 | W | $\varepsilon P_Z$ | 20 40 30 | | | | | 142.°0E, 24.°0N C.M.O |
| | | | eS | 41 45–47 | | | | | time break |
| | | | F | 47 | | | | | |
| 80 | April 22 | W | eP | 17 45 47.5 | | | | | 高知縣本山近傍 |
| | | | iP | 48.2 | | | | | 本山 微震 |
| | | | iS | 55.9 | | | | | 昭和8年4月23日午前2時 |
| | | | F | 47 | | | | | |
| 81 | April 23 | W | ε | 06 10 | | | | | |
| | | | εS | 20.0 | | | | | 27°E, 37°N U.S.C.G.S. |
| | | | M | 50 | | | | | 0═5 : 57.6 |
| | | | F | 07.0 | | | | | |
| 82 | April 23 | W | $\varepsilon P_{NZ}$ | 07 16 02 | | | | | aftershock of No.27 |
| | | | $\varepsilon S_N$ | 17 53 | | | | | 143.°6E, 39.°7N C.M.O. |
| | | | M | 25 19 | 18 | 50 | 100 | | |
| | | | F | 08.0 | | | | | |
| 83 | April 23 | W | ε | 08 31 | | | | | aftershock of No.27 |
| | | | F | 50 | | | | | 143.3E, 39.4N C.M.O. |
| 84 | April 27 | W | εPz | 02 45 35 | | | | | Anchorage, Alaska |
| | | | S | 53 14 | | | | | |
| | | | F | 04.0 | | | | | |
| 85 | April 30 | W | $\varepsilon_Z$ | 18 33 57 | | | | | |
| 86 | April 30 | W | ePz | 19 54 56 | | | | | |
| | | | εS | 58.3 | | | | | |
| | | | εL | 59 | | | | | |
| | | | F | 20 20 | | | | | |
| 87 | May 5 | W | | | | | | | 阿蘇山近傍の地震 |
| | | | $eS_H$ | 11 39 24 | | | | | |
| | | | $EM_{EZ}$ | 43 | 5 | 10 | | 5 | |
| | | | F | 41 | | | | | |
| 88 | May 5 | W | $EM_E$ | 11 55 58 | | | | | 仝 上 |
| | | | F | 57 | | | | | |
| 89 | May 5 | W | ε | 12 04 | | | | | 仝 上 |
| | | | F | 06 | | | | | |
| 90 | May 15 | W | $\varepsilon P_H$ | 01 12 17 | | | | | 仝 上 |
| | | | $eL_H$ | 36 | 4 | | | | |
| | | | F | 14 | | | | | |
| 91 | May 15 | W | $\varepsilon P_H$ | 01 17 52 | | | | | 仝 上 |
| | | | $eL_H$ | 18 12 | | | | | |
| | | | F | 20 | | | | | |
| 92 | May 16 | W | $\varepsilon P_H$ | 01 20 26 | | | | | |
| | | | $\varepsilon Lz$ | 35 | | | | | |
| | | | EM | 37 | | | | | |
| | | | F | 02.0 | | | | | |
| 93 | May 16 | W | $eP_N$ | 03 42 17 | | | | | 廣島縣三次近傍の地震 |
| | | | S | 36 | | | | | |
| | | | F | 43 | | | | | |
| 94 | May 21 | W | ε | 11 58 | | | | | |
| | | | EM | 59 | | | | | |
| | | | F | 12.2 | | | | | |
| 95 | May 23 | W | $\varepsilon P_N$ | 16 37 22 | | | | | 日向灘地震 |
| | | | ez | 36 | | | | | 131.°7E, 31.°4N C.M.O |
| | | | M | 38 56 | 2.1 | 15 | 10 | 15 | |
| | | | F | 48 | | | | | |
| 96 | May 23 | W | $\varepsilon P_N$ | 16 52 41 | | | | | 日向灘地震 |
| | | | $e_H$ | 53 07 | | | | | 131.°4E, 31.°2N C.M.O. |
| | | | M | 53 | 2 | 15 | 10 | 10 | |
| | | | F | 17 03 | | | | | |
| 97 | May 28 | W | iP | 23 41 14 | | —3 | +1 | +6 | Deep focus |
| | | | F | 45 | | | | | 138.°0E, 32.°4N. C.M.O. |

(M. M.)

TUNE 3

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ePNZ | 17 | 10 | 47 | 13 | εPZ | 20 | 36 | 13 |
| | εSH | | 12 | 10 | | εSN | | 38 | 30 |
| | e N | | | 54 | | eME | | 39 | 26 |
| | e E | | 13 | 13 | | e | | 40.7 | |
| | MN | | | 08 | | F | | 56 | |
| | ME | | | 18 | | | | | |
| | F | | 50 | | 19 | eP | 21 | 39 | 40 |
| | | | | | | eSZ | | 41 | 29 |
| 6 | iPZ | 02 | 33 | 33 | | eLH | | 42 | 00 |
| | εSN | | 37 | 42 | | MN | | | 58 |
| | F | | 54 | | | MEZ | | 43 | 36 |
| | | | | | | CN | | 44.0 | |
| 7 | εLN | 12 | 02.3 | | | CE | | 44.3 | |
| | MZ | | 04 | 51 | | F | 23.— | | |
| | ME | | | 54 | | | | | |
| | F | | 20 | | 25 | ePZ | 22 | 03 | 22 |
| | | | | | | ePcPZ | | | 36 |
| 8 | ePZ | 18 | 13 | 23 | | epPRIZ | | 05 | 29 |
| | εLN | | 16.5 | | | εSN | | 10.3 | |
| | F | | 50 | | | | | | |
| | | | | | | F | | 00.— | |
| 12 | ePZ | 21 | 10 | 41 | | | | | |
| | εSN | | 12 | 16 | | | | | |
| | eME | | 13 | 02 | | | | | |
| | F | | 19 | | | | | | |

No. 7—6

# KÔTI Meteorological Observatory

June 2～July9, 1923

## SEISMOLOGICAL BULLETIN



| No. | Date | App. | Phase | G.M.C.T | Period | Amplitude | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | h m s | s | $A_E$ μ | $A_N$ μ | $A_Z$ μ | |
| 98 | June 2 | W | $eP_H$ | 04 43 51 | | | | | 鹿兒島一佐多岬沖 C.M.O. |
| | | | $eS_H$ | 44 52 | | | | | |
| | | | F | 48 | | | | | |
| 99 | June 2 | W | $eP_{NZ}$ | 07 39 31～33 | | | | | time break |
| | | W | e | 44 | | | | | 宮崎縣都ノ城附近の地震 |
| | | O | $\varepsilon L_N$ | 40.3 | | | | | 131.°1E, 31.°7N C.M.O. |
| | | O | M | 40 44 | 17 | | 160 | | |
| | | O | C | 42.7 | | | | | |
| | | O | F | 08 20 | | | | | |
| 100 | June 3 | W | ε | 13 32.5 | | | | | |
| | | | S | 33 08 | | | | | |
| | | | F | 34 | | | | | |
| 101 | June 3 | W | $eP_{NZ}$ | 17 10 47 | | | | | 奄美大島附近 C.M.O. |
| | | | $\varepsilon S_H$ | 12 10 | | | | | 129°30′E, 29°N Manila W.B |
| | | | $e_N$ | 54 | | | | | |
| | | | $M_N$ | 13 08 | 13 | | 100 | | |
| | | | $e_E$ | 13 13 | | | | | |
| | | | $M_E$ | 18 | 10 | 40 | | | |
| | | | F | 50 | | | | | |
| 102 | June 6 | W | $iP_Z$ | 02 33 33 | | | | | Felt in Luzon. |
| | | | $\varepsilon S_N$ | 37 42 | | | | | Epicenter provably in East |
| | | | F | 54 | | | | | Cordillera about 14°20′N, 121°35′E |
| | | | | | | | | | Manila W.B. |
| 103 | June 6 | W | S | 04 28 57 | | | | | 和歌浦灣 C.M.O. |
| | | | F | 30 | | | | | |
| 104 | June 6 | W | $eP_Z$ | 06 42 23 | | | | | |
| | | | F | 45 | | | | | |
| 105 | June 7 | W | $\varepsilon L_N$ | 12 02.3 | | | | | 25°12′N; 101°54′E Chiufeng |
| | | W | $_EM_Z$ | 04 51 | 13 | | | | |
| | | W,O | $_EM_E$ | 54 | 13 | 30 | | | |
| | | | F | 20 | | | | | |
| 106 | June 8 | W | $eP_Z$ | 18 13 23 | | | | | 144.°0E, 40.°2N C.M.O |
| | | | $\varepsilon L_N$ | 16.5 | | | | | |
| | | | F | 50 | | | | | |
| 107 | June 12 | W | $\varepsilon P_Z$ | 21 10 41 | | | | | 141.°7E, 38.°8N C.M.O. |
| | | | $\varepsilon S_N$ | 12 16 | | | | | |
| | | | $_EM$ | 13 02 | 5 | | | | |
| | | | F | 19 | | | | | |
| 108 | June 13 | W | $\varepsilon P_Z$ | 20 36 13 | | | | | 143.°7E, 40.°7N C.M.O. |
| | | | $\varepsilon S_N$ | 38 30 | | | | | |
| | | | $_EM_E$ | 39 26 | 5.5 | | | | |
| | | | $e_N$ | 40.7 | 11 | | | | |
| | | | F | 56 | | | | | |
| 109 | June 16 | W | ε | 10 43.7 | | | | | |
| 110 | June 18 | W | L | 13 15.9 | | | | | |
| | | | E | 30 | | | | | |
| 111 | June 18 | W | eP | 21 39 40 | | | | | 142.°8E, 38.°5N C.M.O. |
| | | W | $eS_Z$ | 41 29 | | | | | |
| | | O | $eL_H$ | 42 00 | 26 | 800 | 1000 | | |
| | | O | $_EM_N$ | 58 | 20,19 | 500 | 600 | | |
| | | O | $_EM_{EZ}$ | 43 36 | 11 | 300 | | | |
| | | O | $C_N$ | 44.0 | | | | | |
| | | O | $C_E$ | 44.3 | | | | | |
| | | O | F | 23 | | | | | |
| 112 | June 24/25 | W | $eP_Z$ | 22 03 22 | | | | | 5.°0S; 104.°2E Batavia |
| | | | $epP_Z$ | 36 | | | | | |
| | | | $ePR_{1Z}$ | 05 29 | | | | | |
| | | | $\varepsilon S_N$ | 10.3 | | | | | |
| | | | F | 00 | | | | | |
| 113 | July 9 | W | $eP_{NZ}$ | 00 33 57 | | | | | 149.°5E, 43.°0N C.M.O. |
| | | | $eS_N$ | 37 21 | | | | | |
| | | | $\varepsilon L_N$ | 38.6 | | | | | |
| | | | $_EM_E$ | 40.8 | | | | | |
| | | | $_EM_N$ | 41.5 | | | | | |
| | | | F | 01 10 | | | | | |
| 114 | July 9 | W | ε | 08 32.0 | | | | | |
| 115 | July 9 | W | ε | 08 52.2 | | | | | |
| 116 | July 9 | W | eP | 12 34 33 | | | | | 149.°0E 42.°5N C.M.O. |
| | | | $eS_H$ | 37 55 | | | | | |
| | | | F | 40 | | | | | |
| 117 | July 9 | W | ε | 16 11.0 | | | | | |
| | | | $\varepsilon L$ | 17 | | | | | |
| | | | F | 30 | | | | | |
| 118 | July 9 | W | eP | 16 56 36 | | | | | 別府附近 C.M.O. |
| | | | eS | 55 | | | | | |
| | | | F | 58 | | | | | |
| 119 | July 9 | W | ε | 17 58 | | | | | |

(M.M.)

# Kôti Observatory



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| July 9 | ePNZ | 00 | 33 | 57 | July 19 | ePZ | 14 | 16 | 42 |
| | eSN | | 37 | 21 | | | | | |
| | eLN | | 38.6 | | | | | | |
| | eME | | 40.8 | | | | | | |
| | eMN | | 41.5 | | | | | | |
| 9 | eP | 12 | 34 | 325 | 20 | ePZ | 23 | 16 | 28 |
| | eSH | | 37 | 55 | | eS | | 18.4 | |
| 9 | eP | 15 | 56 | 36 | 22 | ePZ | 21 | 03 | 29 |
| | eS | | | 55 | | eSZ | | 10 | 03 |
| 10 | ePZ | 00 | 24 | 06 | 24 | e | 07 | 41 | 44 |
| 10 | ePNZ | 10 | 40 | 45 | 28 | eP | 16 | 43 | 486 |
| | eSN | | 46 | 45 | | iP* | | | 504 |
| 11 | S | 01 | 31 | 47 | | eS | | 44 | 064 |
| 14 | iPZ | 16 | 05 | 51 | | iS* | | | 08 |
| | iSZ | | 07 | 39 | | M | | | 11 |
| 18 | iPNZ | 11 | 26 | 31.5 | | F | | 57 | |
| | iSH | | 27 | 38 | Felt moderately | | | | |
| 18 | ePN | 19 | 10 | 27 | 30 | ePZ | 17 | 23 | 54 |
| | eSN | | 14 | 38 | | ePR,Z | | 24 | 50 |
| 19 | ePZ | 13 | 40 | 13 | | eSE | | 34 | 07 |

# Kôti Observatory



| | | | | | | |
|---|---|---|---|---|---|---|
| August | 5 | ePz | 00 | 52 | 53 | |
| | 15 | iP | 03 | 00 | 18 | |
| | | εL | | 028 | | |
| | 18 | εPE | 08 | 21 | 30 | |
| | 20 | ePH | 12 | 50 | 08 | |
| | | eSH | | 54 | 05 | |
| | 22 | ePz | 13 | 17 | 54 | |
| | | eSH | | 20 | 48 | |
| | 25 | ePz | 07 | 55 | 546 | |
| | | iSE | 08 | 00 | 22.1 | |
| | | εLN | | 025 | | |
| | | MN | | 05 | 50 | |
| | | Mz | | 07 | 10 | |
| | | ME | | | 14 | |
| | | MN2 | | | 20 | |
| | 28/29 | ePN2 | 22 | 39 | 34 | |
| | | F | 010 | | | |
| September | 2 | eP | 16 | 42 | 484 | λ = 139.°6 E |
| | | i | | | 507 | φ = 30.°7 N |
| | | e(SP*)H | | 43 | 584 | Δ = 6°.0 |
| | | iSE | | 44 | 023 | H = 400 Km from Surface |
| | | eSN | | | | |
| | | iScSH | | 55 | 247 | Estimated from P~S |
| | | F | 172 | | | and P~ScS |

M. Migamoto

# Kôti Observatory



| | | | h | m | s | |
|---|---|---|---|---|---|---|
| Oct. 2 | | eZ | 15 | 48 | 45 | |
| 1933 | | eH | | 52 | 21 | |
| | 3 | ePZ | 18 | 40 | 31 | |
| | | eSE | | 41 | 34 | |
| | | eLZ | | | 58 | |
| | 5 | ePZ | 13 | 40 | 03 | |
| | | eLN | 14 | 030 | | |
| | | M | | 047 | | |
| | | to | | 06.2 | | |
| | 9 | eP? | 12 | 08 | 13 | |
| | | eE | | | 41 | |
| | | eEZ | | | 44 | |
| | | eS*H | | 09 | 07 | |
| | 21 | ePE | 02 | 46 | 06 | |
| | | eLN | | 47 | 56 | (Tr. 22s) |
| | 22 | e | 11 | 58.7 | | |
| | | e | 12 | 03 | 00 | |
| | 25 | eZ | 23 | 47 | 51 | |
| | | eNZ | | 52 | 15 | |
| Nov. | 1 | eE | 08 | 23 | 27 | |
| | 2 | ePZ | 12 | 34 | 36 | |
| | | M | | 48 | | |
| | 7 | ePZ | 06 | 44 | 12 | |
| | | eSH | | 47 | 41 | |
| Nov. | 20 | iPNZ | 23 | 33 | 00 | |
| | | iPcPZ | | | 14 | |
| | | ePR1Z | | 35 | 47 | |
| | | eSN | | 42 | 24 | |
| | | eLE | | 56.7 | | |
| | 22 | ePZ | 12 | 50 | 17 | |
| | | eZ | | 55 | 59 | |
| | | eLN | | 56 | 52 | |
| | | M | 13 | 039 | | |
| | 28 | eSN | 11 | 28 | 31 | |
| | | eLN | | 44 | | |
| | | MN | | 46.5 | | |
| Dec. | 4 | eP | 19 | 37 | 16 | distant |
| | | iZ | | | 20 | |
| | | iS | | 39 | 55 | |
| | | iScSE<br>eScSN | | 48 | 39 | |

144°.0 E, 46°.6 N, H = 340 Km

| | | | | | |
|---|---|---|---|---|---|
| 12 | eP | 14 | 19 | 03–05 | |
| | ipP | | 20 | 47 | |
| | esP | | 21 | 45 | |
| | iZ | | 24 | 47 | |
| | eE | | 29 | 33 | |

M. Miyamoto