GEOPHYSICS LIBRARY

Department Library
Geophysics
Saint Louis University

International Seismological Centre

# 大阪地震觀測表

昭和五年

一月——三月

府立大阪測候所

# SEISMOLOGICAL BULLETIN

OF THE

# ŌSAKA METEOROLOGICAL OBSERVATORY

OSAKA JAPAN.

FROM January TO ~~March~~ Dec 1930.

---

PUBLISHED BY THE METEOROLOGICAL OBSERVATORY,

ŌSAKA

---

1930

International Seismological Centre

# 記　號　ノ　解

## Symbols and Notations

0 = 無感 No. Feeling. Ⅰ = 微震 Slight. Ⅱ = 弱震(弱キ方) Moderate.
Ⅲ = 弱震 Rather Strong. Ⅳ = 強震(弱キ方) Strong. Ⅴ 強震 = Very Strong
Ⅵ = 烈震 Disastrous.

| | | |
|---|---|---|
| *a* = | 局部地震 | Local earthquakes (Felt at Osaka). |
| *v* = | 近距離地震. | Near earthquakes (Distance less than 1000 km). |
| *r* = | 遠距離地震. | Distant earthquakes (Distance 1000—5000 km). |
| *u* = | 最遠距離地震. | Very distant earthquakes (Distance more than 5000km). |
| P = | 第一初期微動. | First preliminary tremors. |
| S = | 第二初期微動. | Second preliminary tremors. |
| L = | 長波、主要部. | Long waves, chief phase or principal part. |
| M = | 主要部ノ最大動. | Maximum motion in main or principal portion. |
| C = | 終期最大動. | Maximum motion in after shockings or trailers. |
| F = | 振動ノ終. | End of visible motion. |
| *i* = | 鮮明＝現出シタル相ノ符號. | Sudden impulse. |
| *e* = | 不鮮明＝現出シタル相ノ符號. | Gradual develpoment. |
| A = | 震動ノ實動ヲμ(ミクロン)デ表ハシタルモノ. | Amplitude of motion, measured from the median line in micron ($\mu=\frac{1}{1000}$mm) |
| $A_N$ = | 南北動振幅但シ北方ヲ正(+)トス. | N-S component of A. |
| $A_E$ = | 東西動振幅但シ東方ヲ(+)トス. | E-W component of A. |
| $A_Z$ = | 上下動振幅但シ上方ヲ(+)トス. | Vert. component of A. |
| △ = | 震源距離. | Distance of epicenter. |
| 時刻ハ英國「グリニッチ」ノ平時 | | Time Mean Greenwich, midnight = oh |

International Seismological Centre

# 大阪測候所地震觀測表

# Seismological Bulletin

## of the Meteorological Observatory of Osaka, Japan.

北緯三十四度三十九分二秒　　東經百三十五度三十二分九秒　　高さ三米四

$\varphi = 34^{0}39'\ 2''$ N.　　$\lambda = 135^{0}32'9''$ E.　　H=3.4m.

下　層　土　　砂質壤土(第四期古層)

Sub-soil :　　Sandy Loam(Oldquaternary)

| 地震計 Instruments | | 倍率 Vo | 固有週期 To | 摩擦係數 $\frac{r}{To^2}$ | 制振度 ε | 質量 (mass) |
|---|---|---|---|---|---|---|
| | | 倍 | 秒 | | | 瓲 |
| Ormori Horizontal Pendulum tomometer. 大森式地動計 | Ncomp. | 20 | 30 | 0.003 | — | 17.000 |
| | Ecomp. | 20 | 30 | 0.003 | — | 17.000 |
| Omori Vertical-motion seismograph. 大森式上下微動計 | Zcomp. | 20 | 15 | 0.004 | — | 4.119 |
| Omori Horizontal Pendulum tromo meter. 大森式微動計 | Ncomp. | 120 | 15 | 0.005 | — | 63.000 |
| Omori Portable seismometer. 大森式簡單微動計 | Ncomp. | 60 | 4 | 0.092 | — | 12.800 |
| | Ecomp. | 60 | 4 | 0.092 | — | 12.800 |
| Omori Strong-motion Seismograph. 大森式強震計 | Ncomp. | 1 | 5 | 0.003 | — | 1.680 |
| | Ecomp. | 1 | 5 | 0.003 | — | 1.680 |
| | Zcomp. | 2 | 5 | 0.003 | — | 0.890 |
| Imamura Strong-motion Seismograph. 今村式強震計 | Ncomp. | 2 | 8 | 0.024 | 2.0 | 2.000 |
| | Ecomp. | 2 | 8 | 0.024 | 2.0 | 2.050 |
| | Zcomp. | 2 | 3 | 0.032 | 4.0 | 0.380 |
| Omori. Clinometer 大森式傾斜計 | Ncomp. | 15 | 15 | 0.003 | — | 6.200 |
| | Ecomp. | 15 | 15 | 0.003 | — | 6.200 |
| Wiecherts Horizontal Seismograph. ヴィヘルト水平動 | Ncomp. | 80 | 4 | 0.023 | 3.7 | 200.000 |
| | Ecomp. | 80 | 4 | 0.023 | 3.7 | 200.000 |
| Wiecherts Vertical Seismograph. ヴィヘルト上下動 | Zcomp. | 80 | 4 | 0.014 | 3.5 | 80.000 |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Jan. 5 | Ⅱr | P | 1 | 23 | 57.8 | | | | | 2428 | Kamchatka. |
| | | | L | 〃 | 27 | 57.0 | | | | | | |
| | | | $M_E$ | 〃 | 28 | 5.1 | 6.4 | −50 | | | | |
| | | | $M_N$ | 〃 | 28 | 26.5 | 4.0 | | ±37 | | | |
| | | | $M_Z$ | 〃 | 28 | 6.2 | 4.0 | | | −25 | | |
| | | | $F_E$ | 〃 | 43 | 1.5 | | | | | | |
| | | | $F_N$ | 〃 | 42 | 46.5 | | | | | | |
| | | | $F_Z$ | 〃 | 38 | 11.3 | | | | | | |
| 2 | Jan. 10 | Ⅴv | P | 18 | 15 | 40.1 | | | | | 514 | Southern part of Hyuga-nada. |
| | | | L | 〃 | 16 | 49.3 | | | | | | |
| | | | $M_E$ | 〃 | 17 | 43.7 | 2.7 | ±24 | | | | |
| | | | $M_N$ | 〃 | 17 | 31.5 | 2.7 | | +16 | | | |
| | | | $M_Z$ | 〃 | 17 | 42.4 | 2.3 | | | −12 | | |
| | | | $F_E$ | 〃 | 23 | 26.5 | | | | | | |
| | | | $F_N$ | 〃 | 23 | 20.2 | | | | | | |
| | | | $F_Z$ | 〃 | 20 | 9.6 | | | | | | |
| 3 | Jan. 11 | Ⅰv | P | 21 | 22 | 24.0 | | | | | 601 | Far NNW. off Bonin Ils. |
| | | | L | 〃 | 23 | 45.0 | | | | | | |
| | | | $M_E$ | 〃 | 23 | 55.0 | 3.0 | −17 | | | | |
| | | | $M_N$ | 〃 | 24 | 35.2 | 5.9 | | −23 | | | |
| | | | $M_Z$ | 〃 | 24 | 5.4 | 2.2 | | | −17 | | |
| | | | $F_E$ | 〃 | 27 | 11.6 | | | | | | |
| | | | $F_N$ | 〃 | 31 | 32.6 | | | | | | |
| | | | $F_Z$ | 〃 | 30 | 3.3 | | | | | | |
| 4 | Jan. 13 | Ⅱv | P | 20 | 43 | 53.8 | | | | | 57 | Near the mouth of kino kawa, Wakayama prefecture. |
| | | | L | 〃 | 44 | 1.5 | | | | | | |
| | | | $M_E$ | 〃 | 44 | 4.2 | 0.7 | + 6 | | | | |
| | | | $M_N$ | 〃 | 44 | 9.2 | 0.7 | | − 5 | | | |
| | | | $M_Z$ | 〃 | 44 | 9.3 | 0.3 | | | − 1 | | |
| | | | $F_E$ | 〃 | 45 | 26.2 | | | | | | |
| | | | $F_N$ | 〃 | 45 | 36.0 | | | | | | |
| | | | $F_Z$ | 〃 | 44 | 53.0 | | | | | | |
| 5 | Jan. 25 | Ⅱv | P | 11 | 43 | 12.5 | | | | | 528 | In the sea of Kasima. |
| | | | L | 〃 | 44 | 23.7 | | | | | | |
| | | | $M_E$ | 〃 | 45 | 14.9 | 2.6 | ± 6 | | | | |
| | | | $M_N$ | 〃 | 44 | 56.4 | 3.1 | | +12 | | | |
| | | | $F_E$ | 〃 | 47 | 17.1 | | | | | | |
| | | | $F_N$ | 〃 | 47 | 44.8 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | Feb. 1 | I v | P | 23 | 8 | 45.0 | | | | | 558 | In the sea of Kasima. |
| | | | L | 〃 | 10 | 0.2 | | | | | | |
| | | | $M_E$ | 〃 | 10 | 29.1 | 2.1 | −12 | | | | |
| | | | $M_N$ | 〃 | 10 | 38.3 | 2.1 | | −13 | | | |
| | | | $M_Z$ | 〃 | 10 | 48.9 | 1.6 | | | + 4 | | |
| | | | $F_E$ | 〃 | 13 | 2.2 | | | | | | |
| | | | $F_N$ | 〃 | 13 | 21.4 | | | | | | |
| | | | $F_Z$ | 〃 | 13 | 23.5 | | | | | | |
| 7 | Feb. 2 | II r | P | 15 | 2 | 46.0 | | | | | 2165 | In the sea of Okhotsk. |
| | | | L | 〃 | 6 | 23.6 | | | | | | |
| | | | $M_E$ | 〃 | 9 | 0.4 | 6.0 | +11 | | | | |
| | | | $M_N$ | 〃 | 9 | 33.3 | 4.4 | | + 6 | | | |
| | | | $F_E$ | 〃 | 49 | 32.2 | | | | | | |
| | | | $F_N$ | 〃 | 49 | 0.8 | | | | | | |
| 8 | Feb. 2 | II v | P | 21 | 2 | 53.5 | | | | | 479 | Near the lake Kasumi-gaura. |
| | | | L | 〃 | 3 | 58.0 | | | | | | |
| | | | $M_E$ | 〃 | 4 | 30.2 | 2.6 | + 9 | | | | |
| | | | $M_N$ | 〃 | 4 | 31 2 | 2.6 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 4 | 32.7 | 2.0 | | | − 6 | | |
| | | | $F_E$ | 〃 | 6 | 4.7 | | | | | | |
| | | | $F_N$ | 〃 | 6 | 1.1 | | | | | | |
| | | | $F_Z$ | 〃 | 5 | 32.7 | | | | | | |
| 9 | Feb. 5 | IV v | P | 13 | 29 | 36.6 | | | | | 498 | Near Kaminari yama, Fukuoka prefecture. |
| | | | L | 〃 | 30 | 43.7 | | | | | | |
| | | | $M_E$ | 〃 | 32 | 16.1 | 3.4 | −20 | | | | |
| | | | $M_N$ | 〃 | 32 | 16.3 | 3.2 | | −14 | | | |
| | | | $F_E$ | 〃 | 35 | 44.4 | | | | | | |
| | | | $F_N$ | 〃 | 35 | 53.5 | | | | | | |
| 10 | Feb. 7 | I v | P | 2 | 40 | 53.4 | | | | | 47 | Felt Osaka slightly. Near Kyoto City. |
| | | | L | 〃 | 40 | 59.7 | | | | | | |
| | | | $M_E$ | 〃 | 41 | 0.4 | 0.3 | − 8 | | | | |
| | | | $M_N$ | 〃 | 40 | 59.9 | 0.5 | | −26 | | | |
| | | | $M_Z$ | 〃 | 40 | 59.9 | 0.4 | | | + 4 | | |
| | | | $F_E$ | 〃 | 44 | 11.4 | | | | | | |
| | | | $F_N$ | 〃 | 44 | 7.4 | | | | | | |
| | | | $F_Z$ | 〃 | 42 | 53.0 | | | | | | |
| 11 | Feb. 7 | I v | P | 3 | 34 | 21.7 | | | | | 44 | Felt Osaka slightly Near Kyoto City. |
| | | | L | 〃 | 34 | 27.6 | | | | | | |

# 大阪測候所地震観測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 3 | 34 | 27.5 | 0.4 | − 8 | | | | |
| | | | $M_N$ | 〃 | 34 | 27.5 | 0.4 | | +13 | | | |
| | | | $M_Z$ | 〃 | 34 | 27.5 | 0.4 | | | + 4 | | |
| | | | $F_E$ | 〃 | 47 | 53.3 | | | | | | |
| | | | $F_N$ | 〃 | 47 | 33.7 | | | | | | |
| | | | $F_Z$ | 〃 | 42 | 53.0 | | | | | | |
| 12 | Feb. 7 | I v | P | 8 | 43 | 49.9 | | | | | 564 | In the sea of Kasima. |
| | | | L | 〃 | 45 | 5.9 | | | | | | |
| | | | $M_E$ | 〃 | 46 | 22.6 | 2.4 | −13 | | | | |
| | | | $M_N$ | 〃 | 46 | 0.2 | 2.4 | | −13 | | | |
| | | | $M_Z$ | 〃 | 46 | 1.7 | 2.0 | | | − 9 | | |
| | | | $F_E$ | 〃 | 52 | 52.6 | | | | | | |
| | | | $F_N$ | 〃 | 53 | 16.3 | | | | | | |
| | | | $F_Z$ | 〃 | 51 | 58.6 | | | | | | |
| 13 | Feb. 7 | O a | P | 20 | 11 | 39.9 | | | | | 39 | Northwestern part of Osaka Bay. |
| | | | L | 〃 | 11 | 45.1 | | | | | | |
| | | | $M_E$ | 〃 | 11 | 45.4 | 0.4 | + 2 | | | | |
| | | | $M_N$ | 〃 | 11 | 45.4 | 0.4 | | − 9 | | | |
| | | | $F_E$ | 〃 | 13 | 37.7 | | | | | | |
| | | | $F_N$ | 〃 | 13 | 40.7 | | | | | | |
| 14 | Feb. 11 | V v | P | 0 | 12 | 12.7 | | | | | 75 | Near the mouth of Kino kawa, Wakayama prefecture. |
| | | | L | 〃 | 12 | 22.8 | | | | | | |
| | | | $M_E$ | 〃 | 12 | 48.0 | 1.3 | +475 | | | | |
| | | | $M_N$ | 〃 | 12 | 40.1 | 1.1 | | −519 | | | |
| | | | $M_Z$ | 〃 | 12 | 43.9 | 1.0 | | | −135 | | |
| | | | $F_E$ | 〃 | 29 | 29.7 | | | | | | |
| | | | $F_N$ | 〃 | 29 | 38.0 | | | | | | |
| | | | $F_Z$ | 〃 | 25 | 1.7 | | | | | | |
| 15 | Feb. 14 | I v | P | 18 | 50 | 40.0 | | | | | 245 | Middle part of Honsyu. |
| | | | L | 〃 | 51 | 13.0 | | | | | | |
| | | | $M_E$ | 〃 | 52 | 12.9 | 2.4 | + 6 | | | | |
| | | | $M_N$ | 〃 | 51 | 45.7 | 2.0 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 51 | 49.1 | 2.0 | | | − 4 | | |
| | | | $F_E$ | 〃 | 54 | 48.6 | | | | | | |
| | | | $F_N$ | 〃 | 54 | 35.9 | | | | | | |
| | | | $F_Z$ | 〃 | 54 | 46.7 | | | | | | |
| 16 | Feb. 18 | II v | P | 8 | 36 | 45.0 | | | | | 69 | Near the mouth of the Kinokawa, Wakayama prefecture. |
| | | | L | 〃 | 36 | 54.3 | | | | | | |

International Seismological Centre

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 8 | 37 | 15.3 | 0.8 | + 4 | | | | |
| | | | $M_N$ | 〃 | 37 | 2.4 | 0.6 | | + 4 | | | |
| | | | $M_Z$ | 〃 | 37 | 48.1 | 0.6 | | | + 2 | | |
| | | | $F_E$ | 〃 | 38 | 5.0 | | | | | | |
| | | | $F_N$ | 〃 | 38 | 24.7 | | | | | | |
| | | | $F_Z$ | 〃 | 38 | 0.0 | | | | | | |
| 17 | Feb. 20 | Ⅳv | P | 23 | 37 | 40.9 | | | | | 375 | Off Ito, Izu. |
| | | | L | 〃 | 38 | 31.4 | | | | | | |
| | | | $M_E$ | 〃 | 38 | 25.0 | 2.0 | −26 | | | | |
| | | | $M_N$ | 〃 | 39 | 5.0 | 2.2 | | +30 | | | |
| | | | $M_Z$ | 〃 | 38 | 57.6 | 2.3 | | | +24 | | |
| | | | $F_E$ | 〃 | 47 | 25.9 | | | | | | |
| | | | $F_N$ | 〃 | 48 | 15.2 | | | | | | |
| | | | $F_Z$ | 〃 | 46 | 51.7 | | | | | | |
| 18 | Feb. 22 | Ⅲv | P | 5 | 49 | 9.1 | | | | | 327 | Ditto. |
| | | | L | 〃 | 49 | 53.2 | | | | | | |
| | | | $M_E$ | 〃 | 50 | 2.1 | 2.0 | + 6 | | | | |
| | | | $M_N$ | 〃 | 50 | 12.7 | 2.2 | | + 8 | | | |
| | | | $M_Z$ | 〃 | 50 | 4.3 | 2.0 | | | + 5 | | |
| | | | $F_E$ | 〃 | 52 | 25.0 | | | | | | |
| | | | $F_N$ | 〃 | 52 | 30.1 | | | | | | |
| | | | $F_Z$ | 〃 | 52 | 16.2 | | | | | | |
| 19 | Feb. 22 | Ⅳv | P | 11 | 22 | 45.7 | | | | | 330 | Ditto. |
| | | | L | 〃 | 23 | 30.1 | | | | | | |
| | | | $M_E$ | 〃 | 24 | 1.8 | 2.0 | −14 | | | | |
| | | | $M_N$ | 〃 | 24 | 1.1 | 2.2 | | +31 | | | |
| | | | $M_Z$ | 〃 | 24 | 28.2 | 2.0 | | | −11 | | |
| | | | $F_E$ | 〃 | 30 | 41.5 | | | | | | |
| | | | $F_N$ | 〃 | 30 | 52.1 | | | | | | |
| | | | $F_Z$ | 〃 | 28 | 35.0 | | | | | | |
| 20 | Feb. 22 | Iv | P | 18 | 20 | 16.1 | | | | | 109 | Near Miyazu. Kyoto prefecture. |
| | | | L | 〃 | 20 | 30.8 | | | | | | |
| | | | $M_E$ | 〃 | 20 | 31.0 | 0.9 | − 5 | | | | |
| | | | $M_N$ | 〃 | 20 | 33.4 | 0.9 | | − 5 | | | |
| | | | $F_E$ | 〃 | 21 | 20.4 | | | | | | |
| | | | $F_N$ | 〃 | 21 | 25.8 | | | | | | |
| 21 | Feb. 24 | Iv | P | 20 | 57 | 56.5 | | | | | 120 | Southern part of Kii peninsula. |
| | | | L | 〃 | 58 | 12.7 | | | | | | |

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 20 | 58 | 59.4 | 3.4 | + 8 | | | | |
| | | | $M_N$ | 〃 | 58 | 37.6 | 3.9 | | −14 | | | |
| | | | $M_Z$ | 〃 | 58 | 30.0 | 2.0 | | | + 3 | | |
| | | | $F_E$ | 21 | 6 | 58.9 | | | | | | |
| | | | $F_N$ | 〃 | 7 | 0.9 | | | | | | |
| | | | $F_Z$ | 〃 | 4 | 25.0 | | | | | | |
| 22 | Feb. 28 | Ⅱv | P | 9 | 31 | 50.6 | | | | | 328 | Off Ito, Izu. |
| | | | L | 〃 | 32 | 34.7 | | | | | | |
| | | | $M_E$ | 〃 | 32 | 58.8 | 2.5 | ±28 | | | | |
| | | | $M_N$ | 〃 | 32 | 57.9 | 2.6 | | −33 | | | |
| | | | $M_Z$ | 〃 | 32 | 53.7 | 2.3 | | | ±10 | | |
| | | | $F_E$ | 〃 | 37 | 28.6 | | | | | | |
| | | | $F_N$ | 〃 | 38 | 11.2 | | | | | | |
| | | | $F_Z$ | 〃 | 35 | 44.2 | | | | | | |
| 23 | March 1 | Ⅱv | ep | 17 | 43 | 43.5 | | | | | 373 | Near of Chiba City. |
| | | | L | 〃 | 44 | 33.7 | | | | | | |
| | | | $M_E$ | 〃 | 44 | 58.4 | 2.5 | + 6 | | | | |
| | | | $M_N$ | 〃 | 44 | 52.7 | 2.7 | | + 8 | | | |
| | | | $M_Z$ | 〃 | 44 | 42.5 | 1.5 | | | + 3 | | |
| | | | $F_E$ | 〃 | 48 | 1.8 | | | | | | |
| | | | $F_N$ | 〃 | 47 | 49.6 | | | | | | |
| | | | $F_Z$ | 〃 | 47 | 9.3 | | | | | | |
| 24 | March 3 | Ⅱv | P | 12 | 15 | 13.2 | | | | | 336 | Off Ito, Izu. |
| | | | L | 〃 | 15 | 58.5 | | | | | | |
| | | | $M_E$ | 〃 | 16 | 18.2 | 2.0 | ±11 | | | | |
| | | | $M_N$ | 〃 | 16 | 25.4 | 2.0 | | −10 | | | |
| | | | $M_Z$ | 〃 | 16 | 6.7 | 2.0 | | | − 8 | | |
| | | | $F_E$ | 〃 | 20 | 7.5 | | | | | | |
| | | | $F_N$ | 〃 | 20 | 9.5 | | | | | | |
| | | | $F_Z$ | 〃 | 18 | 8.5 | | | | | | |
| 25 | March 3 | Ⅰv | P | 13 | 55 | 58.3 | | | | | 321 | Off Ito, Izu. |
| | | | L | 〃 | 56 | 41.5 | | | | | | |
| | | | $M_E$ | 〃 | 57 | 3.5 | 3.0 | + 7 | | | | |
| | | | $M_N$ | 〃 | 57 | 11.1 | 2.6 | | + 6 | | | |
| | | | $F_E$ | 〃 | 59 | 13.1 | | | | | | |
| | | | $F^N$ | 〃 | 59 | 22.3 | | | | | | |
| 26 | March 3 | Ⅱv | ep | 18 | 51 | 28.4 | | | | | 297 | Off Ito, Izu. |
| | | | L | 〃 | 52 | 8.4 | | | | | | |

International Seismological Centre

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude, $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 18 | 52 | 33.9 | 3.2 | +24 | | | | |
| | | | $M_N$ | 〃 | 52 | 39.3 | 2.6 | | +26 | | | |
| | | | $M_Z$ | 〃 | 52 | 30.9 | 2.6 | | | −14 | | |
| | | | $F_E$ | 〃 | 55 | 7.9 | | | | | | |
| | | | $F_N$ | 〃 | 55 | 11.2 | | | | | | |
| | | | $F_Z$ | 〃 | 54 | 46.5 | | | | | | |
| 27 | March 3 | II v | P | 20 | 11 | 49.6 | | | | | 352 | Off Ito, Izu. |
| | | | L | 〃 | 12 | 37.0 | | | | | | |
| | | | $M_E$ | 〃 | 12 | 56.1 | 2.1 | +36 | | | | |
| | | | $M_N$ | 〃 | 13 | 5.8 | 2.6 | | +54 | | | |
| | | | $M_Z$ | 〃 | 12 | 58.6 | 2.5 | | | +31 | | |
| | | | $F_E$ | 〃 | 17 | 21.6 | | | | | | |
| | | | $F_N$ | 〃 | 18 | 1.3 | | | | | | |
| | | | $F_Z$ | 〃 | 16 | 47.6 | | | | | | |
| 28 | March 5 | I v | P | 10 | 36 | 25.3 | | | | | 58 | Basin of the River Arita, Wakayama prefecture. |
| | | | L | 〃 | 36 | 33.1 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 31.6 | 0.8 | −10 | | | | |
| | | | $M_N$ | 〃 | 36 | 32.0 | 1.0 | | + 7 | | | |
| | | | $F_E$ | 〃 | 37 | 51.6 | | | | | | |
| | | | $F_N$ | 〃 | 38 | 8.4 | | | | | | |
| 29 | March 5 | I v | P | 13 | 31 | 20.7 | | | | | 57 | Near the mouth of Kino kawa, Wakayama prefecture. |
| | | | L | 〃 | 31 | 28,3 | | | | | | |
| | | | $M_E$ | 〃 | 31 | 27.3 | 0.8 | + 8 | | | | |
| | | | $M_N$ | 〃 | 31 | 26.9 | 0.6 | | + 8 | | | |
| | | | $F_E$ | 〃 | 33 | 31.3 | | | | | | |
| | | | $F_N$ | 〃 | 33 | 23.3 | | | | | | |
| 30 | March 6 | II v | P | 3 | 33 | 34.1 | | | | | 702 | NNW, off Bonin Ils. |
| | | | L | 〃 | 35 | 8.6 | | | | | | |
| | | | $M_{E1}$ | 〃 | 35 | 28.2 | 3.8 | +63 | | | | |
| | | | $M_{N1}$ | 〃 | 35 | 16.2 | 3.2 | | −50 | | | |
| | | | $M_{Z1}$ | 〃 | 35 | 21.4 | 3.6 | | | +36 | | |
| | | | $M_{E2}$ | 〃 | 35 | 37.8 | 4.0 | −63 | | | | |
| | | | $M_{N2}$ | 〃 | 35 | 45.8 | 3.6 | | −50 | | | |
| | | | $M_{Z2}$ | 〃 | 35 | 41.8 | 2.6 | | | −26 | | |
| | | | $F_E$ | 〃 | 41 | 53.8 | | | | | | |
| | | | $F_N$ | 〃 | 41 | 32.1 | | | | | | |
| | | | $F_Z$ | 〃 | 40 | 0.5 | | | | | | |
| 31 | March 7 | I v | P | 10 | 53 | 48.5 | | | | | 680 | S. off Yaku Island. Kagosima Prefecture |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude. $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | L | 10 | 55 | 20.1 | | | | | | |
| | | | $M_E$ | 〃 | 58 | 29.6 | 3.8 | −13 | | | | |
| | | | $M_N$ | 〃 | 58 | 1.0 | 3.6 | | + 9 | | | |
| | | | $M_Z$ | 〃 | 57 | 3.7 | 3.8 | | | + 6 | | |
| | | | $F_E$ | 11 | 1 | 26.4 | | | | | | |
| | | | $F_N$ | 〃 | 1 | 48.3 | | | | | | |
| | | | $F_Z$ | 〃 | 0 | 20.0 | | | | | | |
| 32 | March 8 | V v | P | 19 | 40 | 24.1 | | | | | 350 | Off Ito, Izu. |
| | | | L | 〃 | 41 | 11.2 | | | | | | |
| | | | $M_E$ | 〃 | 41 | 43.4 | 2.4 | −21 | | | | |
| | | | $M_N$ | 〃 | 41 | 42.1 | 2.4 | | +33 | | | |
| | | | $M_Z$ | 〃 | 41 | 33.8 | 2.0 | | | −14 | | |
| | | | $F_E$ | 〃 | 44 | 43.3 | | | | | | |
| | | | $F_N$ | 〃 | 44 | 47.5 | | | | | | |
| | | | $F_Z$ | 〃 | 43 | 42.5 | | | | | | |
| 33 | March 9 | II v | P | 9 | 42 | 43.4 | | | | | 781 | Off Kinkazan, Miyagi prefecture. |
| | | | L | 〃 | 44 | 28.7 | | | | | | |
| | | | $M_N$ | 〃 | 46 | 3.5 | 4.4 | | +13 | | | |
| | | | $F_N$ | 〃 | 52 | 14.0 | | | | | | |
| 34 | March 9 | III v | P | 10 | 55 | 19.6 | | | | | 327 | Off Ito, Izu. |
| | | | L | 〃 | 56 | 3.6 | | | | | | |
| | | | $M_{E1}$ | 〃 | 56 | 27.2 | 3.0 | −63 | | | | |
| | | | $M_{N1}$ | 〃 | 56 | 37.5 | 3.0 | | +89 | | | |
| | | | $M_{Z1}$ | 〃 | 56 | 28.7 | 3.0 | | | −47 | | |
| | | | $M_{E2}$ | 〃 | 57 | 22.9 | 3.2 | −58 | | | | |
| | | | $M_{N2}$ | 〃 | 57 | 37.7 | 3.0 | | −50 | | | |
| | | | $M_{Z2}$ | 〃 | 57 | 5.7 | 3.1 | | | −33 | | |
| | | | $F_E$ | 11 | 8 | 27.4 | | | | | | |
| | | | $F_N$ | 〃 | 8 | 20.9 | | | | | | |
| | | | $F_Z$ | 〃 | 4 | 56.4 | | | | | | |
| 35 | March 9 | I v | ep | 20 | 23 | 58.3 | | | | | 288 | Off Ito, Izu. |
| | | | L | 〃 | 24 | 37.1 | | | | | | |
| | | | $M_E$ | 〃 | 24 | 50.3 | 2.3 | − 6 | | | | |
| | | | $M_N$ | 〃 | 25 | 3.5 | 3.0 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 24 | 59.9 | 2.0 | | | + 5 | | |
| | | | $F_E$ | 〃 | 27 | 18.1 | | | | | | |
| | | | $F_N$ | 〃 | 27 | 2.6 | | | | | | |
| | | | $F_Z$ | 〃 | 26 | 51.6 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | March10 | Ⅱr | P | 16 | 31 | 4.9 | | | | | 1695 | E. off the Kitasiretoko Promontory. |
| | | | L | 〃 | 34 | 0.5 | | | | | | |
| | | | $M_E$ | 〃 | 34 | 23.4 | 2.3 | +44 | | | | |
| | | | $M_N$ | 〃 | 35 | 30.5 | 2.3 | | −50 | | | |
| | | | $M_Z$ | 〃 | 34 | 38.7 | 2.0 | | | +25 | | |
| | | | $F_E$ | 〃 | 41 | 21.7 | | | | | | |
| | | | $F_N$ | 〃 | 41 | 22.2 | | | | | | |
| | | | $F_Z$ | 〃 | 39 | 39.0 | | | | | | |
| 37 | March11 | Ⅴv | ep | 16 | 42 | 15.1 | | | | | 811 | Middle basin of the river Kitakami. |
| | | | eL | 〃 | 41 | 4.3 | | | | | | |
| | | | $F_E$ | 〃 | 49 | 16.9 | | | | | | |
| | | | $F_N$ | 〃 | 49 | 18.6 | | | | | | |
| | | | $F_Z$ | 〃 | 49 | 14.6 | | | | | | |
| 38 | March12 | Ⅰv | P | 3 | 47 | 14.5 | | | | | 314 | Off Ito, Izu. |
| | | | L | 〃 | 47 | 56.8 | | | | | | |
| | | | $M_E$ | 〃 | 48 | 22.8 | 2.4 | + 9 | | | | |
| | | | $M_N$ | 〃 | 48 | 26.2 | 2.4 | | +13 | | | |
| | | | $M_Z$ | 〃 | 48 | 20.5 | 2.0 | | | ± 6 | | |
| | | | $F_E$ | 〃 | 51 | 37.4 | | | | | | |
| | | | $F_N$ | 〃 | 51 | 26.8 | | | | | | |
| | | | $F_Z$ | 〃 | 50 | 26.8 | | | | | | |
| 39 | March12 | Ⅱv | P | 19 | 30 | 17.6 | | | | | 344 | Off Ito, Izu. |
| | | | L | 〃 | 31 | 4.0 | | | | | | |
| | | | $M_E$ | 〃 | 31 | 28.5 | 3.3 | +31 | | | | |
| | | | $M_N$ | 〃 | 31 | 29.7 | 2.7 | | −35 | | | |
| | | | $M_Z$ | 〃 | 31 | 33.4 | 2.2 | | | −19 | | |
| | | | $F_E$ | 〃 | 36 | 55.2 | | | | | | |
| | | | $F_N$ | 〃 | 36 | 39.1 | | | | | | |
| | | | $F_Z$ | 〃 | 35 | 55.2 | | | | | | |
| 40 | March14 | Ⅰv | P | 5 | 20 | 18.7 | | | | | 311 | Off Ito, Izu. |
| | | | L | 〃 | 21 | 0.6 | | | | | | |
| | | | $M_E$ | 〃 | 21 | 24.4 | 2.3 | ± 8 | | | | |
| | | | $M_N$ | 〃 | 21 | 27.6 | 2.5 | | ±19 | | | |
| | | | $M_Z$ | 〃 | 21 | 19.1 | 1.8 | | | − 6 | | |
| | | | $F_E$ | 〃 | 27 | 28.2 | | | | | | |
| | | | $F_N$ | 〃 | 27 | 51.7 | | | | | | |
| | | | $F_Z$ | 〃 | 25 | 47.1 | | | | | | |
| 41 | March15 | Ⅱv | P | 9 | 34 | 35.6 | | | | | 339 | Off Ito, Izu. |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | L | 9 | 35 | 21.3 | | | | | | |
| | | | $M_E$ | 〃 | 35 | 42.5 | 2.1 | −24 | | | | |
| | | | $M_N$ | 〃 | 35 | 52.6 | 2.1 | | +30 | | | |
| | | | $M_Z$ | 〃 | 35 | 44.6 | 1.7 | | | +11 | | |
| | | | $F_E$ | 〃 | 41 | 32.0 | | | | | | |
| | | | $F_N$ | 〃 | 41 | 18.7 | | | | | | |
| | | | $F_Z$ | 〃 | 40 | 23.0 | | | | | | |
| 42 | March17 | Ⅱv | P | 10 | 11 | 4.2 | | | | | 52 | Near the mouth of Kinokawa, Wakayama prefecture. |
| | | | L | 〃 | 11 | 11.2 | | | | | | |
| | | | $M_E$ | 〃 | 11 | 36.4 | 0.6 | + 8 | | | | |
| | | | $M_N$ | 〃 | 11 | 25.2 | 0.6 | | + 8 | | | |
| | | | $M_Z$ | 〃 | 11 | 11.2 | 0.2 | | | − 3 | | |
| | | | $F_E$ | 〃 | 13 | 53.1 | | | | | | |
| | | | $F_N$ | 〃 | 13 | 54.7 | | | | | | |
| | | | $F_Z$ | 〃 | 13 | 1.2 | | | | | | |
| 43 | March19 | Ⅱv | P | 1 | 17 | 34.3 | | | | | 341 | Off Ito, Izu. |
| | | | L | 〃 | 18 | 20.3 | | | | | | |
| | | | $M_E$ | 〃 | 18 | 37.6 | 2.1 | −13 | | | | |
| | | | $M_N$ | 〃 | 18 | 45.4 | 2.5 | | −21 | | | |
| | | | $M_Z$ | 〃 | 18 | 40.1 | 1.8 | | | +12 | | |
| | | | $F_E$ | 〃 | 22 | 33.7 | | | | | | |
| | | | $F_N$ | 〃 | 22 | 29.4 | | | | | | |
| | | | $F_Z$ | 〃 | 22 | 5.3 | | | | | | |
| 44 | March19 | Iv | ep | 15 | 31 | 29.6 | | | | | 385 | Southern part of Hyuga-nada. |
| | | | L | 〃 | 32 | 21.5 | | | | | | |
| | | | $M_E$ | 〃 | 33 | 6.5 | 2.1 | − 4 | | | | |
| | | | $M_N$ | 〃 | 32 | 20.4 | 1.9 | | + 4 | | | |
| | | | $F_E$ | 〃 | 36 | 34.1 | | | | | | |
| | | | $F_N$ | 〃 | 36 | 31.8 | | | | | | |
| 45 | March20 | Iv | P | 23 | 39 | 53.4 | | | | | 341 | Off Ito, Izu. |
| | | | L | 〃 | 40 | 39.4 | | | | | | |
| | | | $M_E$ | 〃 | 41 | 10.5 | 2.5 | + 7 | | | | |
| | | | $M_N$ | 〃 | 41 | 6.9 | 2.3 | | + 8 | | | |
| | | | $F_E$ | 〃 | 43 | 31.3 | | | | | | |
| | | | $F_N$ | 〃 | 43 | 5.2 | | | | | | |
| 46 | March21 | Ⅱv | P | 14 | 24 | 59.6 | | | | | 336 | Off Ito, Izu. |
| | | | L | 〃 | 25 | 44.9 | | | | | | |
| | | | $M_E$ | 〃 | 26 | 58.1 | 2.8 | −25 | | | | |

International Seismological Centre

# 大阪測候所地震観測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 14 | 26 | 42.4 | 2.8 | | +33 | | | |
| | | | $M_Z$ | 〃 | 26 | 4.2 | 2.0 | | | −20 | | |
| | | | $F_E$ | 〃 | 32 | 16.8 | | | | | | |
| | | | $F_N$ | 〃 | 32 | 33.8 | | | | | | |
| | | | $F_Z$ | 〃 | 30 | 39.9 | | | | | | |
| 47 | March22 | I v | P | 8 | 3 | 53.2 | | | | | 443 | Off Ito, Izu. |
| | | | L | 〃 | 4 | 52.9 | | | | | | |
| | | | $M_E$ | 〃 | 5 | 19.0 | 2.1 | + 7 | | | | |
| | | | $M_N$ | 〃 | 5 | 21.5 | 2.1 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 5 | 15.2 | 1.7 | | | + 5 | | |
| | | | $F_E$ | 〃 | 8 | 5.3 | | | | | | |
| | | | $F_N$ | 〃 | 8 | 23.1 | | | | | | |
| | | | $F_Z$ | 〃 | 7 | 36.1 | | | | | | |
| 48 | March22 | V v | P | 8 | 51 | 22.1 | | | | | 356 | Off Ito, Izu. |
| | | | L | 〃 | 52 | 10.0 | | | | | | |
| | | | $M_E$ | 〃 | 52 | 25.1 | 3.0 | −188 | | | | |
| | | | $M_N$ | 〃 | 52 | 36·9 | 2.8 | | −408 | | | |
| | | | $M_Z$ | 〃 | 53 | 12.0 | 2.1 | | | −156 | | |
| | | | $F_E$ | 9 | 8 | 32.0 | | | | | | |
| | | | $F_N$ | 〃 | 8 | 17.0 | | | | | | |
| | | | $F_Z$ | 〃 | 7 | 49.1 | | | | | | |
| 49 | March22 | I v | ep | 12 | 5 | 50.4 | | | | | 103 | Near Go village, Northern part of Tango province. |
| | | | L | 〃 | 6 | 4.2 | | | | | | |
| | | | $M_E$ | 〃 | 6 | 6.5 | 1.2 | − 6 | | | | |
| | | | $M_N$ | 〃 | 6 | 3.5 | 1.2 | | ± 5 | | | |
| | | | $M_Z$ | 〃 | 6 | 48.1 | 1.0 | | | − 3 | | |
| | | | $F_E$ | 〃 | 7 | 56.3 | | | | | | |
| | | | $F_N$ | 〃 | 7 | 28.5 | | | | | | |
| | | | $F_Z$ | 〃 | 7 | 39.5 | | | | | | |
| 50 | March25 | I v | P | 11 | 29 | 26.7 | | | | | 761 | Far NNW. off Bonin Ils. |
| | | | L | 〃 | 31 | 9.3 | | | | | | |
| | | | $M_E$ | 〃 | 31 | 8.8 | 2.7 | ±11 | | | | |
| | | | $M_N$ | 〃 | 31 | 33.5 | 2.7 | | −19 | | | |
| | | | $M_Z$ | 〃 | 31 | 20.4 | 2.1 | | | − 8 | | |
| | | | $F_E$ | 〃 | 36 | 48.3 | | | | | | |
| | | | $F_N$ | 〃 | 36 | 39·5 | | | | | | |
| | | | $F_Z$ | 〃 | 35 | 28.6 | | | | | | |
| 51 | March26 | III v | P | 5 | 23 | 27.0 | | | | | 314 | Off Ito, Izu. |

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_N$ μ | $A_E$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | L | 5 | 24 | 9.3 | | | | | | |
| | | | $M_E$ | 〃 | 24 | 43.9 | 2.4 | +51 | | | | |
| | | | $M_N$ | 〃 | 24 | 46.9 | 2.6 | | +75 | | | |
| | | | $M_Z$ | 〃 | 24 | 48.7 | 2.0 | | | −39 | | |
| | | | $F_E$ | 〃 | 44 | 22.7 | | | | | | |
| | | | $F_N$ | 〃 | 44 | 37.7 | | | | | | |
| | | | $F_Z$ | 〃 | 37 | 28.7 | | | | | | |
| 52 | March26 | Ⅱr | P | 7 | 20 | 11.8 | | | | | 4650 | Near New Guinea. |
| | | | L | 〃 | 26 | 35.4 | | | | | | |
| | | | $M_E$ | 〃 | 28 | 35.4 | 6.4 | +19 | | | | |
| | | | $M_N$ | 〃 | 27 | 56.6 | 4.7 | | ±19 | | | |
| | | | $F_E$ | 8 | 0 | 22.5 | | | | | | |
| | | | $F_N$ | 〃 | 0 | 26.9 | | | | | | |
| 53 | March26 | Ⅱr | P | 11 | 40 | 18.5 | | | | | 4212 | ditto. |
| | | | L | 〃 | 46 | 17.7 | | | | | | |
| | | | $M_E$ | 〃 | 47 | 2.7 | 4.7 | ± 6 | | | | |
| | | | $M_N$ | 〃 | 46 | 58.0 | 4.7 | | + 6 | | | |
| | | | $F_E$ | 〃 | 54 | 2.9 | | | | | | |
| | | | $F_N$ | 〃 | 53 | 10.2 | | | | | | |
| 54 | March26 | Ⅱv | P | 16 | 42 | 18.9 | | | | | 364 | Off Ito, Izu. |
| | | | L | 〃 | 43 | 7.9 | | | | | | |
| | | | $M_E$ | 〃 | 43 | 26.9 | 2.4 | +62 | | | | |
| | | | $M_N$ | 〃 | 43 | 8.3 | 2.7 | | +88 | | | |
| | | | $M_Z$ | 〃 | 43 | 27.8 | 2.1 | | | −44 | | |
| | | | $F_E$ | 〃 | 58 | 39.3 | | | | | | |
| | | | $F_N$ | 〃 | 58 | 35.1 | | | | | | |
| | | | $F_Z$ | 〃 | 49 | 29.5 | | | | | | |
| 55 | March26 | Iv | P | 19 | 13 | 5.1 | | | | | 323 | In the sea of Iyo. |
| | | | L | 〃 | 13 | 48.6 | | | | | | |
| | | | $M_E$ | 〃 | 13 | 53.8 | 1.7 | + 3 | | | | |
| | | | $M_N$ | 〃 | 14 | 0.2 | 1.7 | | + 3 | | | |
| | | | $M_Z$ | 〃 | 14 | 21.2 | 1.5 | | | − 3 | | |
| | | | $F_E$ | 〃 | 16 | 38.1 | | | | | | |
| | | | $F_N$ | 〃 | 16 | 4.1 | | | | | | |
| | | | $F_Z$ | 〃 | 15 | 55.6 | | | | | | |
| 56 | March27 | Ⅱr | P | 2 | 44 | 11.7 | | | | | 2083 | Southern part of Okhotsk. |
| | | | L | 〃 | 47 | 42.0 | | | | | | |
| | | | $M_E$ | 〃 | 47 | 54.8 | 4.7 | + 3 | | | | |

International Seismological Centre

# 大阪測候所地震観測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 2 | 48 | 14.6 | 3.9 | | + 3 | | | |
| | | | $F_E$ | 〃 | 52 | 46.1 | | | | | | |
| | | | $F_N$ | 〃 | 52 | 37.4 | | | | | | |
| 57 | March28 | I v | P | 15 | 49 | 58.8 | | | | | 74 | S .off Wakayama City. |
| | | | L | 〃 | 50 | 8.8 | | | | | | |
| | | | $M_E$ | 〃 | 50 | 32.4 | 0.7 | + 8 | | | | |
| | | | $M_N$ | 〃 | 50 | 19.7 | 0.7 | | +11 | | | |
| | | | $F_E$ | 〃 | 51 | 50.1 | | | | | | |
| | | | $F_N$ | 〃 | 51 | 53.8 | | | | | | |
| 58 | March28 | I v | P | 18 | 12 | 26.1 | | | | | 315 | Off Ito, Izu. |
| | | | L | 〃 | 13 | 8.5 | | | | | | |
| | | | $M_E$ | 〃 | 13 | 25.9 | 2.0 | + 8 | | | | |
| | | | $M_N$ | 〃 | 13 | 36.0 | 2.0 | | − 6 | | | |
| | | | $F_E$ | 〃 | 17 | 17.8 | | | | | | |
| | | | $F_N$ | 〃 | 17 | 29.8 | | | | | | |
| 59 | March29 | II v | P | 0 | 56 | 5.1 | | | | | 423 | ditto. |
| | | | L | 〃 | 57 | 2.0 | | | | | | |
| | | | $M_E$ | 〃 | 57 | 23.3 | 4.4 | −28 | | | | |
| | | | $M_N$ | 〃 | 57 | 24.4 | 2.4 | | +39 | | | |
| | | | $M_Z$ | 〃 | 57 | 31.3 | 2.4 | | | − 3 | | |
| | | | $F_E$ | 1 | 2 | 45.1 | | | | | | |
| | | | $F_N$ | 〃 | 2 | 24.6 | | | | | | |
| | | | $F_Z$ | 〃 | 2 | 15.1 | | | | | | |
| 60 | March29 | II v | P | 15 | 7 | 20.6 | | | | | 353 | ditto. |
| | | | L | 〃 | 8 | 8.1 | | | | | | |
| | | | $M_E$ | 〃 | 8 | 20.3 | 2.6 | ±14 | | | | |
| | | | $M_N$ | 〃 | 7 | 56.8 | 2.7 | | +22 | | | |
| | | | $M_Z$ | 〃 | 8 | 17.6 | 2.2 | | | −13 | | |
| | | | $F_E$ | 〃 | 15 | 7.1 | | | | | | |
| | | | $F_N$ | 〃 | 14 | 51.9 | | | | | | |
| | | | $F_Z$ | 〃 | 13 | 43.2 | | | | | | |
| 61 | March29 | I v | P | 20 | 41 | 1.6 | | | | | 327 | ditto. |
| | | | L | 〃 | 41 | 45.6 | | | | | | |
| | | | $M_E$ | 〃 | 42 | 1.9 | 2.3 | + 6 | | | | |
| | | | $M_N$ | 〃 | 41 | 58.1 | 2.2 | | − 6 | | | |
| | | | $M_Z$ | 〃 | 42 | 37.7 | 2.0 | | | − 3 | | |
| | | | $F_E$ | 〃 | 44 | 32.8 | | | | | | |
| | | | $F_N$ | 〃 | 44 | 33.0 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $F_Z$ | 20 | 45 | 9.9 | | | | | | |
| 62 | March30 | Ⅱr | P | 0 | 31 | 46.4 | | | | | 3021 | In the South sea. |
| | | | L | 〃 | 36 | 31.2 | | | | | | |
| | | | $M_E$ | 〃 | 37 | 10.0 | 6.0 | −16 | | | | |
| | | | $M_N$ | 〃 | 37 | 24.3 | 4.6 | | +10 | | | |
| | | | $F_E$ | 〃 | 42 | 24.9 | | | | | | |
| | | | $F_N$ | 〃 | 42 | 31.3 | | | | | | |
| 63 | March30 | Iv | P | 5 | 8 | 13.2 | | | | | 284 | Far south off Onmae Cape. |
| | | | L | 〃 | 8 | 51.4 | | | | | | |
| | | | $M_E$ | 〃 | 9 | 14.8 | 2.3 | + 9 | | | | |
| | | | $M_N$ | 〃 | 8 | 46.1 | 3.0 | | −13 | | | |
| | | | $M_Z$ | 〃 | 9 | 45.1 | 2.0 | | | + 6 | | |
| | | | $F_E$ | 〃 | 11 | 31.3 | | | | | | |
| | | | $F_N$ | 〃 | 11 | 5.0 | | | | | | |
| | | | $F_Z$ | 〃 | 11 | 11.5 | | | | | | |
| 64 | March30 | Ⅱr | ep | 15 | 27 | 39.1 | | | | | — | Near New Guinea. |
| | | | L | 〃 | 29 | 24.3 | | | | | | |
| | | | $M_Z$ | 〃 | 29 | 57.8 | 4.0 | | | + 5 | | |
| | | | $F_Z$ | 〃 | 33 | 24.3 | | | | | | |
| 65 | March30 | Iv | P | 20 | 10 | 18.7 | | | | | 351 | Northern part of bungo channel. |
| | | | L | 〃 | 11 | 6.0 | | | | | | |
| | | | $M_E$ | 〃 | 11 | 36.5 | 2.3 | − 6 | | | | |
| | | | $M_N$ | 〃 | 11 | 46.6 | 2.3 | | − 8 | | | |
| | | | $F_E$ | 〃 | 13 | 9.6 | | | | | | |
| | | | $F_N$ | 〃 | 13 | 36.8 | | | | | | |
| 66 | March31 | Iv | ep | 1 | 00 | 49.5 | | | | | 284 | Off Ito, Izu. |
| | | | L | 〃 | 1 | 27.8 | | | | | | |
| | | | $M_E$ | 〃 | 1 | 45.7 | 3.0 | + 5 | | | | |
| | | | $M_N$ | 〃 | 1 | 50.7 | 2.6 | | + 6 | | | |
| | | | $F_E$ | 〃 | 4 | 6.3 | | | | | | |
| | | | $F_N$ | 〃 | 4 | 6.3 | | | | | | |

International Seismological Centre

# 顯著地震概況

## Special Earthquakes.

### 二月五日福岡雷山附近の地震

此地震は福岡市を去る十五粁南南西に當る雷山附近に發したる強震にして震央地附近にては墓石、石燈籠の轉倒、小なる崖崩れ、道路の小龜裂等ありたるも大なる被害はなかりしと云ふ

### 二月十一日紀伊川河口沖の地震

此地震は紀伊川河口沖に發したる強震にして震央地附近にては土塀の崩壊、石燈籠、墓石の轉倒、棚上の器物の落下等ありたり

### 三月二十二日伊豆汐吹崎沖の地震

本年二月十五日以來伊豆汐吹崎、川奈崎より日蓮崎に至る一帶の地域に地震頻發し始め三月二十二日までに其數二千數回に達し同日午後五時五十分過ぎに至り有感區域關東地方の大半本州中部地方の東半部に亘る強震を起し震央地附近にては屋根瓦の墜落、石垣の倒壞等の小被害あり其後も強弱震引續きたりしも震源淺く有感區域狹く大したる被害を與へざりき

各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P−S | 繼續時間 S−L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P−S | 繼續時間 S−L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 沼津 | 17 50 40 | 0 5.0 | — | 37 | 大阪 | 17 51 22 | 0 47.9 | — | 356 |
| 横濱 | 〃 50 42 | 0 9.8 | — | 73 | 神戸 | 〃 51 26 | 0 49.6 | — | 369 |
| 東京 | 〃 50 52 | 0 13.4 | — | 100 | 仙臺 | 〃 51 30 | 0 54.8 | — | 407 |
| 熊谷 | 〃 50 57 | 0 16.5 | — | 123 | 高知 | 〃 51 45 | 0 57.6 | — | 428 |
| 前橋 | 〃 50 59 | 0 22.3 | — | 165 | 水澤 | 〃 51 47 | 1 06.0 | — | 490 |
| 柿岡 | 〃 51 01 | 0 22.6 | — | 168 | 盛岡 | 〃 51 50 | 1 01.0 | — | 453 |
| 筑波山 | 〃 51 01 | 0 24.4 | — | 181 | 秋田 | 〃 51 52 | 1 2.0 | — | 594 |
| 宇都宮 | 〃 51 04 | 0 24.7 | — | 183 | 松山 | 〃 51 55 | 1 27.0 | — | 646 |
| 八丈島 | 〃 51 07 | 0 25.6 | — | 191 | 宮崎 | 〃 52 23 | 1 59.0 | — | 883 |
| 岐阜 | 〃 51 09 | 0 25.4 | — | 189 | 福岡 | 〃 52 29 | 1 55.0 | — | 853 |
| 高山 | 〃 51 13 | 0 25.7 | — | 191 | マニラ（比律賓） | 〃 55 53 | 5 51.0 | — | 4244 |
| 彦根 | 〃 51 18 | 0 29.0 | — | 215 | ジガウエー（支那上海） | 〃 57 23 | — | — | — |
| 京都 | 〃 51 20 | 0 45.4 | — | 337 | | | | | |

International Seismological Centre

# 三月二十六日ニューギネア附近の地震

此地震はニューギネア附近に發したる强震にして微動は全世界の地震計に感じたり各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| (ジヤワ) バタビヤ | 16 16 30 | 5 06 | — | 3480 | (瑞西) ニューシヤテル | 16 30 47 | 8 49 | — | 7400 |
| (比律賓) マニラ | 〃 17 12 | 4 10 | — | 2665 | (瑞西) チューリヒ | 〃 30 52 | 10 45 | — | 10700 |
| 臺北 | 〃 18 52 | 5 08 | — | 3355 | (伊太利) ナポリ | 〃 31 20 | 10 00 | — | 8790 |
| (濠洲) シドニー | 〃 18 59 | 5 43 | — | 4060 | (西班牙) | 〃 31 23 | — | P—L 43 37 | — |
| (支那上海) ジガウエー | 〃 19 34 | 5 46 | — | 4156 | グラナダ (カナダ) オツタワ | 〃 31 24 | — | P—L 38 06 | — |
| 大阪 | 〃 20 12 | 6 24 | — | 4650 | (伊太利) トレンタ | 〃 31 25 | — | — | — |
| 長野 | 〃 20 27 | 6 48 | — | 5105 | (北米) セントルイス | 〃 31 36 | — | P—L 35 24 | 15100 |
| 前橋 | 〃 20 28 | 5 07 | — | 3728 | (北米) ジヨージトン | 〃 31 37 | — | — | 15900 |
| 水澤 | 〃 20 55 | 7 01 | S 12 | 5340 | (北米) フオールドハム | 〃 31 37 | — | P—L 22 23 | 9000 |
| (サモア諸島) アピア | 〃 22 31 | S 26 | — | 6900 | (伊太利) パドー | 〃 32 00 | 9 05 | — | 7700 |
| (丁抹) コペンハーゲン | 〃 26 36 | — | — | 12000 | (英國) ストニーハースト | 〃 32 08 | 9 54 | — | 8680 |
| (伊太利) フロレンス | 〃 26 56 | 11 34 | — | 10800 | (伊太利) メツシナ | 〃 32 10 | 9 48 | — | 8550 |
| (佛國) ストラスブルグ | 〃 27 08 | — | — P—L | 13200 | (英國) キユー | 〃 32 12 | 9 43 | 19 53 | 13300 |
| (佛國) パークサンマール | 〃 27 19 | — | 23 41 | 13000 | (西班牙) トレド | 〃 32 48 | 11 53 | — | 11300 |
| (伊太利) ロツカデイパパ | 〃 30 18 | 10 50 | — P—L | 9820 | (北米) タクソン | 〃 32 57 | 9 37 | — | 13600 |
| (獨逸) ハムブルグ | 〃 30 28 | — | 34 02 | — | (西班牙) サンフエルナンド | 〃 33 00 | 12 00 | — | 11475 |
| (佛國) プライサンス | 〃 30 44 | 10 44 | — | 9680 | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

# Seismological Bulletin

## of the Meteorological Observatory of Osaka, Japan.

北緯三十四度三十九分二秒　東經百三十五度三十二分九秒　高さ三米四

$\varphi = 34^{\circ}39' 2''$ N.　$\lambda = 135^{\circ}32'9''$ E.　H=3.4m.

下層土　砂質壤土(第四期古層)

Sub-soil : Sandy Loam(Oldquaternary)

| 地震計 Instruments | | 倍率 Vo | 固有週期 To | 摩擦係数 $\frac{r}{To^2}$ | 制振度 ε | 質量 (mass) |
|---|---|---|---|---|---|---|
| | | 倍 | 秒 | | | 瓲 |
| Ormori Horizontal Pendulum tomometer. 大森式地動計 | Ncomp. | 20 | 30 | 0.003 | — | 17.000 |
| | Ecomp. | 20 | 30 | 0.003 | — | 17.000 |
| Omori Vertical-motion seismograph. 大森式上下微動計 | Zcomp. | 20 | 15 | 0.004 | — | 4.119 |
| Omori Horizontal Pendulum tromo meter. 大森式微動計 | Ncomp. | 120 | 15 | 0.005 | — | 63.000 |
| Omori Portable seismometer. 大森式簡單微動計 | Ncomp. | 60 | 4 | 0.092 | — | 12.800 |
| | Ecomp. | 60 | 4 | 0.092 | — | 12.800 |
| Omori Strong-motion Seismograph. 大森式強震計 | Ncomp. | 1 | 5 | 0.003 | — | 1.680 |
| | Ecomp. | 1 | 5 | 0.003 | — | 1.680 |
| | Zcomp. | 2 | 5 | 0.003 | — | 0.890 |
| Imamura Strong-motion Seismograph. 今村式強震計 | Ncomp. | 2 | 8 | 0.024 | 2.0 | 2.000 |
| | Ecomp. | 2 | 8 | 0.024 | 2.0 | 2.050 |
| | Zcomp. | 2 | 3 | 0.032 | 4.0 | 0.380 |
| Omori. Clinometer 大森式傾斜計 | Ncomp. | 15 | 15 | 0.003 | — | 6.200 |
| | Ecomp. | 15 | 15 | 0.003 | — | 6.200 |
| Wiecherts Horizontal Seismograph. ヴィヘルト水平動 | Ncomp. | 80 | 4 | 0.023 | 3.7 | 200.000 |
| | Ecomp. | 80 | 4 | 0.023 | 3.7 | 200.000 |
| Wiecherts Vertical Seismograph. ヴィヘルト上下動 | Zcomp. | 80 | 4 | 0.014 | 3.5 | 80.000 |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 67 | April 1 | Ⅳv | P | 14 | 05 | 19.3 | | | | | 324 | Off Ito, Izu. |
| | | | L | 〃 | 06 | 3.0 | | | | | | |
| | | | $M_E$ | 〃 | 07 | 6.5 | 2.7 | −25 | | | | |
| | | | $M_N$ | 〃 | 06 | 32.6 | 3.1 | | +38 | | | |
| | | | $M_Z$ | 〃 | 06 | 24.2 | 2.2 | | | −19 | | |
| | | | $F_E$ | 〃 | 11 | 56.8 | | | | | | |
| | | | $F_N$ | 〃 | 11 | 58.8 | | | | | | |
| | | | $F_Z$ | 〃 | 11 | 34.8 | | | | | | |
| 68 | April 4 | Iv | P | 5 | 09 | 52.6 | | | | | 314 | Far W. off Hatijo Island. |
| | | | L | 〃 | 10 | 34.9 | | | | | | |
| | | | $M_E$ | 〃 | 10 | 58.0 | 2.7 | + 6 | | | | |
| | | | $M_N$ | 〃 | 10 | 49.2 | 2.1 | | − 4 | | | |
| | | | $M_Z$ | 〃 | 11 | 16.8 | 2.0 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 13 | 45.3 | | | | | | |
| | | | $F_N$ | 〃 | 13 | 2.3 | | | | | | |
| | | | $F_Z$ | 〃 | 12 | 30.7 | | | | | | |
| 69 | April 4 | Ⅱu | P | 9 | 33 | 56.7 | | | | | 5490 | Solomon Island. |
| | | | L | 〃 | 41 | 5.7 | | | | | | |
| | | | $M_E$ | 〃 | 42 | 1.1 | 4.2 | ± 4 | | | | |
| | | | $M_N$ | 〃 | 41 | 52.2 | 3.8 | | ± 3 | | | |
| | | | $M_Z$ | 〃 | 42 | 10.3 | 2.7 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 49 | 40.3 | | | | | | |
| | | | $F_N$ | 〃 | 49 | 33.6 | | | | | | |
| | | | $F_Z$ | 〃 | 47 | 28.2 | | | | | | |
| 70 | April 6 | Iv | ep | 16 | 32 | 33.9 | | | | | — | Off Ito, Izu. |
| | | | L | 〃 | 33 | 0.2 | | | | | | |
| | | | $M_N$ | 〃 | 33 | 44.4 | 1.6 | | + 3 | | | |
| | | | $F_E$ | 〃 | 34 | 36.6 | | | | | | |
| | | | $F_N$ | 〃 | 34 | 43.8 | | | | | | |
| 71 | April 9 | Iv | P | 4 | 19 | 38.4 | | | | | 62 | Near the month of Kino Kawa, Wakayama prefecture. |
| | | | L | 〃 | 19 | 46.7 | | | | | | |
| | | | $M_E$ | 〃 | 20 | 17.5 | 3.3 | + 6 | | | | |
| | | | $M_N$ | 〃 | 20 | 9.4 | 2.3 | | ± 6 | | | |
| | | | $M_Z$ | 〃 | 20 | 2.0 | 2.0 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 21 | 30.2 | | | | | | |
| | | | $F_N$ | 〃 | 21 | 20.0 | | | | | | |
| | | | $F_Z$ | 〃 | 21 | 18.8 | | | | | | |
| 72 | April 9 | Ⅱv | P | 23 | 47 | 52.3 | | | | | 487 | Lower Course of the Nakagawa, Ibaraki prefecture. |

19 International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | L | 23 | 48 | 58.0 | | | | | | |
| | | | $M_E$ | 〃 | 49 | 21.3 | 2.7 | −14 | | | | |
| | | | $M_N$ | 〃 | 49 | 25.4 | 2.3 | | +13 | | | |
| | | | $M_Z$ | 〃 | 49 | 18.5 | 2.0 | | | + 9 | | |
| | | | $F_E$ | 〃 | 53 | 11.3 | | | | | | |
| | | | $F_N$ | 〃 | 52 | 49.2 | | | | | | |
| | | | $F_Z$ | 〃 | 52 | 43.2 | | | | | | |
| 73 | April 21 | I r | P | 10 | 23 | 4.7 | | | | | 1333 | Far SE. off the Otiisi Cape, Hokkaido. |
| | | | L | 〃 | 25 | 26.0 | | | | | | |
| | | | $M_E$ | 〃 | 27 | 6.4 | 3.8 | +12 | | | | |
| | | | $M_N$ | 〃 | 27 | 39.8 | 3.8 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 28 | 23.4 | 3.0 | | | ± 5 | | |
| | | | $F_E$ | 〃 | 35 | 7.7 | | | | | | |
| | | | $F_N$ | 〃 | 35 | 11.4 | | | | | | |
| | | | $F_Z$ | 〃 | 33 | 2.0 | | | | | | |
| 74 | April 23 | II r | P | 21 | 52 | 40.1 | | | | | 1611 | Far SE. off the Kunasiri Island. |
| | | | L | 〃 | 55 | 27.2 | | | | | | |
| | | | $M_E$ | 〃 | 57 | 37.6 | 3.8 | +24 | | | | |
| | | | $M_N$ | 〃 | 56 | 52.9 | 4.1 | | +28 | | | |
| | | | $M_Z$ | 〃 | 56 | 24.5 | 3.5 | | | +13 | | |
| | | | $F_E$ | 22 | 10 | 18.8 | | | | | | |
| | | | $F_N$ | 〃 | 10 | 9.4 | | | | | | |
| | | | $F_Z$ | 〃 | 08 | 31.0 | | | | | | |
| 75 | April 24 | I r | P | 0 | 27 | 25.4 | | | | | 1590 | ditto. |
| | | | L | 〃 | 30 | 10.7 | | | | | | |
| | | | $M_N$ | 〃 | 31 | 16.4 | 3.2 | | − 6 | | | |
| | | | $F_N$ | 〃 | 38 | 4.1 | | | | | | |
| 76 | April 25 | I v | P | 12 | 32 | 49.1 | | | | | 427 | Upper Course of the river Yakata, Ohoita prefecture. |
| | | | L | 〃 | 33 | 46.6 | | | | | | |
| | | | $M_E$ | 〃 | 34 | 0.9 | 1.7 | − 4 | | | | |
| | | | $M_N$ | 〃 | 33 | 55.9 | 1.4 | | + 6 | | | |
| | | | $F_E$ | 〃 | 37 | 13.8 | | | | | | |
| | | | $F_N$ | 〃 | 37 | 14.4 | | | | | | |
| 77 | April 26 | II r | P | 16 | 25 | 14.7 | | | | | 3895 | Aleutian Islands. |
| | | | L | 〃 | 30 | 55.7 | | | | | | |
| | | | $M_E$ | 〃 | 37 | 9.6 | 14.3 | +58 | | | | |
| | | | $M_N$ | 〃 | 37 | 2.0 | 18.2 | | ±53 | | | |
| | | | $F_E$ | 17 | 01 | 3.7 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $F_E$ | 17 | 02 | 20.3 | | | | | | |
| 78 | April 28 | Mr | P | 18 | 46 | 55.6 | | | | | 3925 | The frontier of Birma and Yunnan. |
| | | | L | 〃 | 52 | 38.5 | | | | | | |
| | | | $M_E$ | 〃 | 55 | 1.9 | 12.7 | +83 | | | | |
| | | | $M_N$ | 〃 | 53 | 41.6 | 20.0 | | +118 | | | |
| | | | $F_E$ | 19 | 09 | 9.5 | | | | | | |
| | | | $F_N$ | 〃 | 10 | 14.3 | | | | | | |
| 79 | May 1 | Vv | P | 0 | 59 | 3.9 | | | | | 514 | Northern part of the Kujukuri shore, Tiba prefecture. |
| | | | L | 1 | 0 | 13.0 | | | | | | |
| | | | $M_E$ | 〃 | 0 | 51.0 | 3.3 | −459 | | | | |
| | | | $M_N$ | 〃 | 0 | 54.6 | 3.2 | | +475 | | | |
| | | | $M_Z$ | 〃 | 0 | 42.0 | 2.3 | | | +369 | | |
| | | | $F_E$ | 〃 | 27 | 25.6 | | | | | | |
| | | | $F_N$ | 〃 | 27 | 19.7 | | | | | | |
| | | | F | 〃 | 23 | 20.0 | | | | | | |
| 80 | May 1 | Iv | P | 1 | 17 | 7.9 | | | | | 521 | Ditto. |
| | | | L | 〃 | 18 | 18.2 | | | | | | |
| | | | $M_E$ | 〃 | 18 | 42.0 | 2.4 | + 8 | | | | |
| | | | $M_N$ | 〃 | 18 | 28.2 | 2.4 | | + 18 | | | |
| | | | $M_Z$ | 〃 | 18 | 42.6 | 2.0 | | | + 7 | | |
| | | | $F_E$ | 〃 | 20 | 45.7 | | | | | | |
| | | | $F_N$ | 〃 | 20 | 58.4 | | | | | | |
| | | | $F_Z$ | 〃 | 20 | 15.8 | | | | | | |
| 81 | May 1 | IIIv | P | 4 | 21 | 35.3 | | | | | 502 | Ditto. |
| | | | L | 〃 | 22 | 42.9 | | | | | | |
| | | | $M_E$ | 〃 | 23 | 34.1 | 3.9 | +106 | | | | |
| | | | $M_N$ | 〃 | 23 | 10.2 | 3.5 | | +139 | | | |
| | | | $M_Z$ | 〃 | 23 | 30.7 | 3.0 | | | − 75 | | |
| | | | $F_E$ | 〃 | 34 | 25.2 | | | | | | |
| | | | $F_N$ | 〃 | 34 | 4.6 | | | | | | |
| | | | $F_Z$ | 〃 | 31 | 23.8 | | | | | | |
| 82 | May 2 | Iv | P | 20 | 52 | 55.5 | | | | | 68 | In the Kii channel. |
| | | | L | 〃 | 53 | 4.6 | | | | | | |
| | | | $M_E$ | 〃 | 53 | 37.2 | 1.6 | + 6 | | | | |
| | | | $M_N$ | 〃 | 53 | 32.4 | 1.6 | | − 6 | | | |
| | | | $F_E$ | 〃 | 54 | 47.2 | | | | | | |
| | | | $F_N$ | 〃 | 54 | 51.2 | | | | | | |
| 83 | May 5 | Mr | P | 13 | 53 | 25.3 | | | | | 4206 | Rangoon, Birma. |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude, $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | S | 13 | 59 | 24.0 | | | | | | |
| | | | L | 14 | 07 | 0.9 | | | | | | |
| | | | $M_E$ | 〃 | 10 | 3.0 | 10.3 | +106 | | | | |
| | | | $M_N$ | 〃 | 07 | 2.3 | 10.5 | | − 63 | | | |
| | | | $M_Z$ | 〃 | 10 | 6.2 | 7.7 | | | + 52 | | |
| | | | $F_E$ | 〃 | 54 | 13.1 | | | | | | |
| | | | $F_N$ | 〃 | 53 | 42.9 | | | | | | |
| | | | $F_Z$ | 〃 | 50 | 55.3 | | | | | | |
| 84 | May 6 | VIu | P | 22 | 45 | 24.7 | | | | | 7768 | Near lake Urumia, Persia |
| | | | S | 〃 | 54 | 33.1 | | | | | | |
| | | | L | 23 | 10 | 14.3 | | | | | | |
| | | | $M_E$ | 〃 | 21 | 25.1 | 16.1 | ± 18 | | | | |
| | | | $M_N$ | 〃 | 20 | 1.0 | 15.8 | | − 8 | | | |
| | | | $F_E$ | 〃 | 32 | 27.1 | | | | | | |
| | | | $F_N$ | 〃 | 32 | 21.3 | | | | | | |
| 85 | May 7 | Iv | P | 20 | 29 | 0.3 | | | | | 343 | Off Ito, Izu. |
| | | | L | 〃 | 29 | 46.5 | | | | | | |
| | | | $M_E$ | 〃 | 30 | 9.7 | 2.1 | + 4 | | | | |
| | | | $M_N$ | 〃 | 30 | 12.7 | 2.1 | | + 4 | | | |
| | | | $M_Z$ | 〃 | 29 | 55.2 | 2.1 | | | + 2 | | |
| | | | $F_E$ | 〃 | 32 | 36.1 | | | | | | |
| | | | $F_N$ | 〃 | 32 | 1.7 | | | | | | |
| | | | $F_Z$ | 〃 | 31 | 54.7 | | | | | | |
| 86 | May 7 | Iv | P | 20 | 42 | 1.1 | | | | | 336 | ditto. |
| | | | L | 〃 | 42 | 46.3 | | | | | | |
| | | | $M_E$ | 〃 | 43 | 2.3 | 2.0 | ± 5 | | | | |
| | | | $M_N$ | 〃 | 43 | 15.4 | 2.9 | | + 8 | | | |
| | | | $M_Z$ | 〃 | 43 | 11.9 | 2.1 | | | − 3 | | |
| | | | $F_E$ | 〃 | 47 | 4.6 | | | | | | |
| | | | $F_N$ | 〃 | 47 | 14.0 | | | | | | |
| | | | $F_Z$ | 〃 | 46 | 16.2 | | | | | | |
| 87 | May 7 | Iv | P | 22 | 43 | 35.8 | | | | | 334 | ditto. |
| | | | L | 〃 | 44 | 20.8 | | | | | | |
| | | | $M_E$ | 〃 | 44 | 36.8 | 1.5 | − 5 | | | | |
| | | | $M_N$ | 〃 | 44 | 42.8 | 1.9 | | + 5 | | | |
| | | | $M_Z$ | 〃 | 44 | 38.5 | 1.9 | | | ± 2 | | |
| | | | $F_E$ | 〃 | 46 | 55.5 | | | | | | |
| | | | $F_N$ | 〃 | 46 | 25.5 | | | | | | |

International Seismological Centre

# 大阪測候所地震観測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $F_Z$ | 22 | 45 | 41.4 | | | | | | |
| 88 | May 8 | Iv | P | 4 | 25 | 55.4 | | | | | 324 | Off Ito, Izu. |
| | | | L | 〃 | 26 | 39.0 | | | | | | |
| | | | $M_E$ | 〃 | 27 | 15.3 | 2.1 | ± 5 | | | | |
| | | | $M_N$ | 〃 | 27 | 5.6 | 3.0 | | + 9 | | | |
| | | | $M_Z$ | 〃 | 27 | 2.2 | 2.1 | | | − 4 | | |
| | | | $F_E$ | 〃 | 29 | 53.1 | | | | | | |
| | | | $F_N$ | 〃 | 29 | 55.1 | | | | | | |
| | | | $F_Z$ | 〃 | 28 | 35.8 | | | | | | |
| 89 | May 8 | IIu | P | 12 | 55 | 46.4 | | | | | 5025 | Southern part of Borneo. |
| | | | S | 13 | 02 | 29.9 | | | | | | |
| | | | $M_E$ | 〃 | 02 | 56.3 | 5.7 | ± 6 | | | | |
| | | | $M_N$ | 〃 | 02 | 58.2 | 4.2 | | ± 4 | | | |
| | | | $F_E$ | 〃 | 08 | 21.7 | | | | | | |
| | | | $F_N$ | 〃 | 08 | 59.2 | | | | | | |
| 90 | May 8 | Iv | P | 15 | 51 | 4.7 | | | | | 334 | Off Ito, Izu. |
| | | | L | 〃 | 51 | 49.7 | | | | | | |
| | | | $M_E$ | 〃 | 52 | 14.0 | 2.3 | + 6 | | | | |
| | | | $M_N$ | 〃 | 52 | 11.0 | 1.9 | | + 5 | | | |
| | | | $M_Z$ | 〃 | 52 | 11.6 | 1.9 | | | + 2 | | |
| | | | $F_E$ | 〃 | 54 | 4.5 | | | | | | |
| | | | $F_N$ | 〃 | 53 | 55.3 | | | | | | |
| | | | $F_Z$ | 〃 | 53 | 5.9 | | | | | | |
| 91 | May 8 | Iv | P | 16 | 05 | 4.7 | | | | | 336 | Ditto. |
| | | | L | 〃 | 05 | 50.0 | | | | | | |
| | | | $M_E$ | 〃 | 06 | 12.3 | 1.9 | + 6 | | | | |
| | | | $M_N$ | 〃 | 06 | 17.8 | 2.3 | | ± 7 | | | |
| | | | $M_Z$ | 〃 | 06 | 10.4 | 2.1 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 08 | 15.9 | | | | | | |
| | | | $F_N$ | 〃 | 08 | 24.2 | | | | | | |
| | | | $F_Z$ | 〃 | 08 | 10.0 | | | | | | |
| 92 | May 8 | Iv | ep | 16 | 14 | 7.1 | | | | | 36 | Upper course of the yodo gawa. |
| | | | el | 〃 | 14 | 11.9 | | | | | | |
| | | | $F_E$ | 〃 | 15 | 43.1 | | | | | | |
| | | | $F_N$ | 〃 | 15 | 44.4 | | | | | | |
| 93 | May 8 | Iv | P | 19 | 49 | 34.4 | | | | | 336 | Off Ito, Izu. |
| | | | L | 〃 | 50 | 19.6 | | | | | | |
| | | | $M_E$ | 〃 | 50 | 32.5 | 2.0 | + 2 | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 19 | 50 | 48.8 | 2.1 | | − 2 | | | |
| | | | $M_Z$ | 〃 | 50 | 39.0 | 1.5 | | | + 1 | | |
| | | | $F_E$ | 〃 | 52 | 22.9 | | | | | | |
| | | | $F_N$ | 〃 | 52 | 21.8 | | | | | | |
| | | | $F_Z$ | 〃 | 51 | 56.4 | | | | | | |
| 94 | May 8 | I v | P | 19 | 53 | 9.4 | | | | | 309 | Off Ito, Izu. |
| | | | L | 〃 | 53 | 51.0 | | | | | | |
| | | | $M_E$ | 〃 | 53 | 49.7 | 2.1 | ± 3 | | | | |
| | | | $M_N$ | 〃 | 54 | 7.5 | 1.9 | | ± 3 | | | |
| | | | $F_E$ | 〃 | 55 | 53.8 | | | | | | |
| | | | $F_N$ | 〃 | 56 | 0.4 | | | | | | |
| 95 | May 8 | I v | P | 21 | 10 | 39.3 | | | | | 336 | Ditto. |
| | | | L | 〃 | 11 | 24.6 | | | | | | |
| | | | $M_E$ | 〃 | 11 | 33.0 | 2.8 | ± 6 | | | | |
| | | | $M_N$ | 〃 | 11 | 37.7 | 2.8 | | ± 5 | | | |
| | | | $F_E$ | 〃 | 13 | 41.8 | | | | | | |
| | | | $F_N$ | 〃 | 13 | 34.0 | | | | | | |
| 96 | May 9 | V v | P | 2 | 53 | 20.5 | | | | | 366 | Ditto. |
| | | | L | 〃 | 54 | 9.7 | | | | | | |
| | | | $M_E$ | 〃 | 54 | 35.3 | 2.9 | + 19 | | | | |
| | | | $M_N$ | 〃 | 54 | 39.1 | 3.4 | | ± 37 | | | |
| | | | $F_E$ | 3 | 02 | 5.3 | | | | | | |
| | | | $F_N$ | 〃 | 01 | 59.4 | | | | | | |
| 97 | May 9 | I v | P | 8 | 37 | 6.0 | | | | | 363 | Ditto. |
| | | | L | 〃 | 37 | 54.9 | | | | | | |
| | | | $M_E$ | 〃 | 38 | 53.4 | 3.6 | ± 6 | | | | |
| | | | $M_N$ | 〃 | 38 | 18.1 | 3.4 | | − 13 | | | |
| | | | $F_E$ | 〃 | 43 | 1.1 | | | | | | |
| | | | $F_N$ | 〃 | 42 | 35.6 | | | | | | |
| 98 | May 9 | I v | P | 18 | 33 | 48.2 | | | | | 334 | Ditto. |
| | | | L | 〃 | 34 | 33.2 | | | | | | |
| | | | $M_E$ | 〃 | 34 | 56.1 | 3.4 | ± 9 | | | | |
| | | | $M_N$ | 〃 | 34 | 51.8 | 3.4 | | − 11 | | | |
| | | | $F_E$ | 〃 | 38 | 7.0 | | | | | | |
| | | | $F_N$ | 〃 | 38 | 28.0 | | | | | | |
| 99 | May 9 | I v | P | 19 | 51 | 46.2 | | | | | 351 | Ditto. |
| | | | L | 〃 | 52 | 33.4 | | | | | | |
| | | | $M_E$ | 〃 | 52 | 44.7 | 1.9 | + 7 | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 19 | 52 | 41.7 | 2.8 | | + 8 | | | |
| | | | $F_E$ | 〃 | 56 | 34.9 | | | | | | |
| | | | $F_N$ | 〃 | 56 | 42.4 | | | | | | |
| 100 | May 10 | I v | ep | 11 | 30 | 32.6 | | | | | — | Off Ito, Izu. |
| | | | L | 〃 | 31 | 12.0 | | | | | | |
| | | | $M_E$ | 〃 | 31 | 21.4 | 1.9 | ± 4 | | | | |
| | | | $M_N$ | 〃 | 31 | 27.2 | 1.9 | | ± 5 | | | |
| | | | $M_Z$ | 〃 | 31 | 23.3 | 1.9 | | | + 3 | | |
| | | | $F_E$ | 〃 | 34 | 43.9 | | | | | | |
| | | | $F_N$ | 〃 | 34 | 40.1 | | | | | | |
| | | | $F_Z$ | 〃 | 34 | 0.4 | | | | | | |
| 101 | May 10 | II v | P | 12 | 04 | 18.6 | | | | | 1425 | Distant Earthqnake. |
| | | | L | 〃 | 06 | 48.1 | | | | | | |
| | | | $M_E$ | 〃 | 08 | 25.2 | 3.8 | − 16 | | | | |
| | | | $M_N$ | 〃 | 07 | 38.1 | 3.4 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 06 | 52.9 | 3.4 | | | − 9 | | |
| | | | $F_E$ | 〃 | 13 | 41.9 | | | | | | |
| | | | $F_N$ | 〃 | 14 | 10.0 | | | | | | |
| | | | $F_Z$ | 〃 | 13 | 10.0 | | | | | | |
| 102 | May 10 | I v | P | 15 | 02 | 9.3 | | | | | 326 | Off Ito, Izu. |
| | | | L | 〃 | 02 | 53.3 | | | | | | |
| | | | $M_E$ | 〃 | 03 | 15.3 | 1.9 | + 5 | | | | |
| | | | $M_N$ | 〃 | 03 | 22.7 | 1.7 | | − 6 | | | |
| | | | $M_Z$ | 〃 | 03 | 28.2 | 1.9 | | | + 2 | | |
| | | | $F_E$ | 〃 | 05 | 39.6 | | | | | | |
| | | | $F_N$ | 〃 | 05 | 47.4 | | | | | | |
| | | | $F_Z$ | 〃 | 05 | 5.0 | | | | | | |
| 103 | May 10 | I v | ep | 17 | 21 | 34.5 | | | | | — | Ditto. |
| | | | L | 〃 | 21 | 56.1 | | | | | | |
| | | | $M_E$ | 〃 | 21 | 56.5 | 1.9 | + 5 | | | | |
| | | | $M_N$ | 〃 | 22 | 6.2 | 2.3 | | − 6 | | | |
| | | | $M_Z$ | 〃 | 21 | 57.7 | 2.0 | | | + 2 | | |
| | | | $F_E$ | 〃 | 24 | 53.3 | | | | | | |
| | | | $F_N$ | 〃 | 25 | 6.7 | | | | | | |
| | | | $F_Z$ | 〃 | 24 | 24.0 | | | | | | |
| 104 | May 12 | V v | P | 12 | 27 | 30.8 | | | | | 337 | Ditto. |
| | | | L | 〃 | 28 | 16.2 | | | | | | |
| | | | $M_E$ | 〃 | 28 | 47.9 | 2.4 | −125 | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 12 | 29 | 0.2 | 2.4 | | +107 | | | |
| | | | $M_Z$ | 〃 | 28 | 42.5 | 2.0 | | | − 31 | | |
| | | | $F_E$ | 〃 | 33 | 46.4 | | | | | | |
| | | | $F_N$ | 〃 | 34 | 6.9 | | | | | | |
| | | | $F_Z$ | 〃 | 32 | 29.7 | | | | | | |
| 105 | May 13 | I v | P | 0 | 03 | 34.1 | | | | | 341 | Off Ito, Izu. |
| | | | L | 〃 | 04 | 20.1 | | | | | | |
| | | | $M_E$ | 〃 | 05 | 11.6 | 3.6 | ± 3 | | | | |
| | | | $M_N$ | 〃 | 04 | 48.2 | 3.1 | | − 4 | | | |
| | | | $F_E$ | 〃 | 08 | 8.9 | | | | | | |
| | | | $F_N$ | 〃 | 07 | 46.7 | | | | | | |
| 106 | May 13 | I v | ep | 19 | 51 | 50.6 | | | | | 314 | Ditto. |
| | | | L | 〃 | 52 | 32.8 | | | | | | |
| | | | $M_E$ | 〃 | 52 | 52.2 | 2.2 | − 4 | | | | |
| | | | $M_N$ | 〃 | 52 | 49.3 | 2.0 | | + 6 | | | |
| | | | $F_E$ | 〃 | 54 | 35.0 | | | | | | |
| | | | $F_N$ | 〃 | 55 | 28.9 | | | | | | |
| 107 | May 13 | I v | P | 23 | 47 | 3.9 | | | | | 355 | Ditto. |
| | | | L | 〃 | 47 | 51.7 | | | | | | |
| | | | $M_E$ | 〃 | 47 | 31.7 | 2.1 | − 4 | | | | |
| | | | $M_N$ | 〃 | 48 | 6.7 | 1.9 | | + 5 | | | |
| | | | $F_E$ | 〃 | 50 | 33.9 | | | | | | |
| | | | $F_N$ | 〃 | 50 | 43.3 | | | | | | |
| 108 | May 13 | II v | P | 23 | 57 | 18.6 | | | | | 336 | Ditto. |
| | | | L | 〃 | 58 | 3.9 | | | | | | |
| | | | $M_E$ | 〃 | 58 | 27.3 | 2.4 | + 19 | | | | |
| | | | $M_N$ | 〃 | 58 | 33.9 | 2.3 | | − 31 | | | |
| | | | $M_Z$ | 〃 | 58 | 23.7 | 2.3 | | | + 11 | | |
| | | | $F_E$ | 0 | 08 | 2.1 | | | | | | |
| | | | $F_N$ | 〃 | 08 | 28.3 | | | | | | |
| | | | $F_Z$ | 〃 | 05 | 53.7 | | | | | | |
| 109 | May 14 | I v | P | 8 | 35 | 58.9 | | | | | 209 | East off sima Peninsula. |
| | | | L | 〃 | 36 | 27.0 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 51.6 | 2.1 | + 37 | | | | |
| | | | $M_N$ | 〃 | 36 | 44.6 | 2.3 | | − 25 | | | |
| | | | $M_Z$ | 〃 | 36 | 57.0 | 2.3 | | | − 18 | | |
| | | | $F_E$ | 〃 | 42 | 43.0 | | | | | | |
| | | | $F_N$ | 〃 | 42 | 32.7 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $F_Z$ | 8 | 41 | 27.0 | | | | | | |
| 110 | May 14 | Ⅲv | ep | 16 | 35 | 39.7 | | | | | 330 | Off Ito, Izu. |
| | | | L | 〃 | 36 | 24.1 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 27.9 | 2.3 | + 14 | | | | |
| | | | $M_N$ | 〃 | 36 | 50.5 | 2.3 | | − 19 | | | |
| | | | $M_Z$ | 〃 | 36 | 48.6 | 2.2 | | | + 11 | | |
| | | | $F_E$ | 〃 | 41 | 23.1 | | | | | | |
| | | | $F_N$ | 〃 | 41 | 22.4 | | | | | | |
| | | | $F_Z$ | 〃 | 40 | 30.3 | | | | | | |
| 111 | May 15 | Iv | P | 6 | 42 | 54.3 | | | | | 25 | Middle Course of the Yamatogawa |
| | | | L | 〃 | 42 | 57.7 | | | | | | |
| | | | $M_E$ | 〃 | 43 | 10.8 | 0.4 | + 16 | | | | |
| | | | $M_N$ | 〃 | 43 | 12.7 | 0.4 | | + 11 | | | |
| | | | $M_Z$ | 〃 | 42 | 57.7 | 0.3 | | | − 4 | | |
| | | | $F_E$ | 〃 | 44 | 46.8 | | | | | | |
| | | | $F_N$ | 〃 | 44 | 39.3 | | | | | | |
| | | | $F_Z$ | 〃 | 44 | 24.9 | | | | | | |
| 112 | May 15 | Ⅲv | P | 6 | 58 | 51.4 | | | | | 366 | Off Ito, Izu. |
| | | | L | 〃 | 59 | 40.7 | | | | | | |
| | | | $M_E$ | 7 | 0 | 54.2 | 3.0 | − 11 | | | | |
| | | | $M_N$ | 〃 | 1 | 9.2 | 2.4 | | + 14 | | | |
| | | | $M_Z$ | 〃 | 0 | 0.4 | 2.5 | | | − 5 | | |
| | | | $F_E$ | 〃 | 7 | 12.0 | | | | | | |
| | | | $F_N$ | 〃 | 7 | 10.2 | | | | | | |
| | | | $F_Z$ | 〃 | 4 | 20.3 | | | | | | |
| 113 | May 15 | Iv | P | 7 | 44 | 17.7 | | | | | 330 | Ditto. |
| | | | L | 〃 | 45 | 2.1 | | | | | | |
| | | | $M_E$ | 〃 | 45 | 13.3 | 2.0 | + 5 | | | | |
| | | | $M_N$ | 〃 | 45 | 29.7 | 2.2 | | + 7 | | | |
| | | | $M_Z$ | 〃 | 45 | 19.3 | 2.2 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 48 | 9.0 | | | | | | |
| | | | $F_N$ | 〃 | 48 | 21.0 | | | | | | |
| | | | $F_Z$ | 〃 | 47 | 24.0 | | | | | | |
| 114 | May 15 | Iv | P | 10 | 14 | 10.8 | | | | | 334 | Ditto. |
| | | | L | 〃 | 14 | 55.8 | | | | | | |
| | | | $M_E$ | 〃 | 15 | 55.4 | 2.4 | + 6 | | | | |
| | | | $M_N$ | 〃 | 15 | 30.6 | 2.3 | | ± 7 | | | |
| | | | $M_Z$ | 〃 | 15 | 6.4 | 2.4 | | | + 3 | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $F_E$ | 10 | 20 | 54.0 | | | | | | |
| | | | $F_N$ | 〃 | 21 | 3.8 | | | | | | |
| | | | $F_Z$ | 〃 | 18 | 33.0 | | | | | | |
| 115 | May 15 | Iv | P | 10 | 26 | 41.4 | | | | | 347 | Off Ito, Izu. |
| | | | L | 〃 | 27 | 28.2 | | | | | | |
| | | | $M_E$ | 〃 | 27 | 47.2 | 3.8 | | − 8 | | | |
| | | | $M_N$ | 〃 | 27 | 49.8 | 2.4 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 30 | 16.2 | | | | | | |
| | | | $F_N$ | 〃 | 29 | 53.7 | | | | | | |
| 116 | May 15 | Iv | P | 12 | 50 | 11.2 | | | | | 341 | Ditto. |
| | | | L | 〃 | 50 | 57.2 | | | | | | |
| | | | $M_E$ | 〃 | 51 | 57.2 | 2.5 | ± 6 | | | | |
| | | | $M_N$ | 〃 | 51 | 21.9 | 2.3 | | + 8 | | | |
| | | | $M_Z$ | 〃 | 51 | 4.8 | 2.3 | | | + 4 | | |
| | | | $F_E$ | 〃 | 54 | 23.4 | | | | | | |
| | | | $F_N$ | 〃 | 53 | 51.5 | | | | | | |
| | | | $F_Z$ | 〃 | 53 | 23.4 | | | | | | |
| 117 | May 15 | Iv | P | 19 | 40 | 34.2 | | | | | 504 | Northern part of the Kujukuri shore, Tiba prefecture. |
| | | | L | 〃 | 41 | 42.1 | | | | | | |
| | | | $M_E$ | 〃 | 42 | 36.4 | 4.0 | + 7 | | | | |
| | | | $M_N$ | 〃 | 42 | 35.6 | 2.8 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 41 | 54.5 | 2.1 | | | + 5 | | |
| | | | $F_E$ | 〃 | 46 | 37.4 | | | | | | |
| | | | $F_N$ | 〃 | 46 | 48.8 | | | | | | |
| | | | $F_Z$ | 〃 | 43 | 43.8 | | | | | | |
| 118 | May 16 | Iv | P | 13 | 35 | 28.4 | | | | | 318 | Off Ito, Izu. |
| | | | L | 〃 | 36 | 11.2 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 32.9 | 2.1 | − 9 | | | | |
| | | | $M_N$ | 〃 | 36 | 34.8 | 2.3 | | + 8 | | | |
| | | | $M_Z$ | 〃 | 36 | 30.9 | 2.3 | | | − 4 | | |
| | | | $F_E$ | 〃 | 39 | 49.8 | | | | | | |
| | | | $F_N$ | 〃 | 40 | 3.1 | | | | | | |
| | | | $F_Z$ | 〃 | 39 | 30.4 | | | | | | |
| 119 | May 16 | Vv | P | 20 | 14 | 56.5 | | | | | 369 | Ditto. |
| | | | L | 〃 | 15 | 46.2 | | | | | | |
| | | | $M_E$ | 〃 | 16 | 8.4 | 3.4 | +181 | | | | |
| | | | $M_N$ | 〃 | 16 | 21.9 | 4.0 | | −275 | | | |
| | | | $M_Z$ | 〃 | 16 | 7.1 | 3.0 | | | −150 | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude. $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $F_E$ | 20 | 39 | 19.1 | | | | | | |
| | | | $F_N$ | 〃 | 39 | 49.0 | | | | | | |
| | | | $F_Z$ | 〃 | 28 | 10.5 | | | | | | |
| 120 | May 18 | IIIr | P | 0 | 10 | 27.3 | | | | | 3910 | In the south sea. |
| | | | L | 〃 | 16 | 9.4 | | | | | | |
| | | | $M_E$ | 〃 | 17 | 36.9 | 4.3 | − 7 | | | | |
| | | | $M_N$ | 〃 | 17 | 1.9 | 3.8 | | + 5 | | | |
| | | | $F_E$ | 〃 | 27 | 39.5 | | | | | | |
| | | | $F_N$ | 〃 | 27 | 30.0 | | | | | | |
| | | | $F_Z$ | 〃 | 21 | 4.1 | | | | | | |
| 121 | May 18 | Iv | P | 6 | 27 | 3.6 | | | | | 323 | Off Ito, Izu. |
| | | | L | 〃 | 27 | 47.1 | | | | | | |
| | | | $M_E$ | 〃 | 29 | 1.6 | 3.0 | − 8 | | | | |
| | | | $M_N$ | 〃 | 28 | 22.5 | 2.6 | | + 8 | | | |
| | | | $M_Z$ | 〃 | 28 | 40.9 | 2.0 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 34 | 32.4 | | | | | | |
| | | | $F_N$ | 〃 | 34 | 30.7 | | | | | | |
| | | | $F_Z$ | 〃 | 32 | 19.9 | | | | | | |
| 122 | May 19 | Iv | P | 3 | 58 | 3.9 | | | | | 875 | North off Naze, Rinkyu Ils. |
| | | | L | 4 | 00 | 1.8 | | | | | | |
| | | | $M_E$ | 〃 | 01 | 20.1 | 4.0 | + 6 | | | | |
| | | | $M_N$ | 〃 | 01 | 7.7 | 3.9 | | + 7 | | | |
| | | | $M_Z$ | 〃 | 01 | 43.4 | 3.5 | | | + 3 | | |
| | | | $F_E$ | 〃 | 05 | 28.2 | | | | | | |
| | | | $F_N$ | 〃 | 05 | 56.4 | | | | | | |
| | | | $F_Z$ | 〃 | 04 | 23.2 | | | | | | |
| 123 | May 19 | Iv | ep | 10 | 34 | 17.9 | | | | | — | In the sea of Kasima. |
| | | | L | 〃 | 35 | 8.8 | | | | | | |
| | | | $M_E$ | 〃 | 35 | 32.0 | 2.0 | − 4 | | | | |
| | | | $M_N$ | 〃 | 35 | 25.7 | 2.3 | | ± 8 | | | |
| | | | $M_Z$ | 〃 | 35 | 27.6 | 1.8 | | | + 3 | | |
| | | | $F_E$ | 〃 | 37 | 36.6 | | | | | | |
| | | | $F_N$ | 〃 | 37 | 25.0 | | | | | | |
| | | | $F_Z$ | 〃 | 37 | 23.4 | | | | | | |
| 124 | May 19 | IIIr | P | 15 | 08 | 0.6 | | | | | 2043 | Upper Basin of the pinan taikei, Formosa. |
| | | | L | 〃 | 11 | 27.8 | | | | | | |
| | | | $M_E$ | 〃 | 12 | 6.7 | 4.8 | + 93 | | | | |
| | | | $M_N$ | 〃 | 11 | 58.3 | 4.7 | | − 56 | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_Z$ | 15 | 12 | 10.7 | 4.0 | | | + 38 | | |
| | | | $F_E$ | 〃 | 24 | 5.0 | | | | | | |
| | | | $F_N$ | 〃 | 24 | 18.5 | | | | | | |
| | | | $F_Z$ | 〃 | 21 | 51.6 | | | | | | |
| 125 | May 20 | Ⅱr | P | 7 | 50 | 23.8 | | | | | 4271 | In the south sea |
| | | | L | 〃 | 56 | 26.2 | | | | | | |
| | | | $F_E$ | 8 | 4 | 47.9 | | | | | | |
| | | | $F_N$ | 〃 | 4 | 51.9 | | | | | | |
| | | | $F_Z$ | 〃 | 3 | 18.1 | | | | | | |
| 126 | May 20 | Ⅱr | P | 11 | 21 | 48.7 | | | | | 3945 | Aleutian Islands. |
| | | | L | 〃 | 27 | 32.7 | | | | | | |
| | | | $M_E$ | 〃 | 28 | 11.2 | 4.1 | + 5 | | | | |
| | | | $M_N$ | 〃 | 27 | 45.1 | 5.7 | | ± 3 | | | |
| | | | $F_E$ | 〃 | 40 | 57.4 | | | | | | |
| | | | $F_N$ | 〃 | 40 | 26.2 | | | | | | |
| 127 | May 20 | Ⅱv | ep | 22 | 12 | 25.0 | | | | | 443 | Northern part of the Kujukuri shore, Tiba prefecture. |
| | | | L | 〃 | 13 | 24.7 | | | | | | |
| | | | $M_E$ | 〃 | 14 | 21.8 | 2.4 | + 9 | | | | |
| | | | $M_N$ | 〃 | 13 | 58.8 | 2.3 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 14 | 20.9 | 2.0 | | | + 5 | | |
| | | | $F_E$ | 〃 | 17 | 44.3 | | | | | | |
| | | | $F_N$ | 〃 | 17 | 46.2 | | | | | | |
| | | | $F_Z$ | 〃 | 16 | 34.4 | | | | | | |
| 128 | May 21 | Ⅱv | P | 17 | 38 | 0.0 | | | | | 353 | Off Ito, Izu. |
| | | | L | 〃 | 38 | 47.5 | | | | | | |
| | | | $M_E$ | 〃 | 39 | 23.4 | 2.9 | + 8 | | | | |
| | | | $M_N$ | 〃 | 39 | 16.2 | 3.1 | | − 19 | | | |
| | | | $M_Z$ | 〃 | 39 | 8.8 | 2.2 | | | + 7 | | |
| | | | $F_E$ | 〃 | 43 | 19.1 | | | | | | |
| | | | $F_N$ | 〃 | 44 | 18.2 | | | | | | |
| | | | $F_Z$ | 〃 | 42 | 1.7 | | | | | | |
| 129 | May 23 | Ⅴv | P | 16 | 39 | 4.4 | | | | | 317 | South Off Izu Oshima. |
| | | | L | 〃 | 39 | 47.0 | | | | | | |
| | | | $M_E$ | 〃 | 40 | 55.0 | 2.3 | +444 | | | | |
| | | | $M_N$ | 〃 | 40 | 53.1 | 2.3 | | +408 | | | |
| | | | $F_E$ | 17 | 07 | 25.0 | | | | | | |
| | | | $F_N$ | 〃 | 07 | 10.0 | | | | | | |
| 130 | May 23 | Iv | P | 21 | 35 | 30.5 | | | | | 564 | Far SE. Off Kinkazan. Miyagi prefecture. |

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | L | 21 | 36 | 46.5 | | | | | | |
| | | | $F_N$ | 〃 | 41 | 2.9 | | | | | | |
| 131 | May 26 | I v | P | 9 | 09 | 5.1 | | | | | 881 | Far SE off the Boso peninsula. |
| | | | L | 〃 | 11 | 3.8 | | | | | | |
| | | | $M_E$ | 〃 | 11 | 25.2 | 3.8 | + 9 | | | | |
| | | | $M_N$ | 〃 | 11 | 56.8 | 4.2 | | + 8 | | | |
| | | | $F_E$ | 〃 | 18 | 8.2 | | | | | | |
| | | | $F_N$ | 〃 | 18 | 36.0 | | | | | | |
| 132 | May 28 | V v | P | 19 | 33 | 13.5 | | | | | 459 | Lower Course of the Nakagawa, Ibaraki prefecture. |
| | | | L | 〃 | 34 | 15.3 | | | | | | |
| | | | $M_E$ | 〃 | 34 | 41.3 | 2.4 | ± 5. | | | | |
| | | | $M_N$ | 〃 | 34 | 50.9 | 2.2 | | ± 8 | | | |
| | | | $F_E$ | 〃 | 38 | 16.9 | | | | | | |
| | | | $F_N$ | 〃 | 38 | 26.5 | | | | | | |
| 133 | May 31 | V v | P | 17 | 59 | 32.1 | | | | | 498 | Ditto. |
| | | | L | 18 | 0 | 39.2 | | | | | | |
| | | | $M_E$ | 〃 | 01 | 21.5 | 1.9 | +563 | | | | |
| | | | $M_N$ | 〃 | 01 | 19.3 | 1.7 | | +788 | | | |
| | | | $F_E$ | 〃 | 19 | 50.6 | | | | | | |
| | | | $F_N$ | 〃 | 20 | 5.5 | | | | | | |
| 134 | June 3 | I r | ep | 18 | 13 | 18.3 | | | | | 1288 | In the sea of Okhotsk. |
| | | | L | 〃 | 15 | 35.1 | | | | | | |
| | | | $M_E$ | 〃 | 15 | 58.0 | 2.9 | − 4 | | | | |
| | | | $M_N$ | 〃 | 16 | 14.1 | 3.7 | | − 4 | | | |
| | | | $M_Z$ | 〃 | 16 | 14.1 | 2.5 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 24 | 44.1 | | | | | | |
| | | | $F_N$ | 〃 | 24 | 33.2 | | | | | | |
| | | | $F_Z$ | 〃 | 19 | 44.0 | | | | | | |
| 135 | June 3 | I v | P | 19 | 57 | 32.1 | | | | | 674 | Far NNW. Off Bonin Ils. |
| | | | L | 〃 | 59 | 2.9 | | | | | | |
| | | | $M_E$ | 〃 | 59 | 30.5 | 4.4 | + 11 | | | | |
| | | | $M_N$ | 〃 | 59 | 52.7 | 3.9 | | ± 11 | | | |
| | | | $M_Z$ | 〃 | 59 | 28.7 | 2.5 | | | ± 6 | | |
| | | | $F_E$ | 20 | 07 | 13.9 | | | | | | |
| | | | $F_N$ | 〃 | 06 | 43.3 | | | | | | |
| | | | $F_Z$ | 〃 | 03 | 23.9 | | | | | | |
| 136 | June 4 | | P | 9 | 57 | 39.0 | | | | | 3202 | Koi Island, Molucca pass. |
| | | | L | 10 | 02 | 35.7 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. m. s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 10 07 35.1 | 4.7 | + 9 | | | | |
| | | | $M_N$ | 〃 07 31.3 | 4.4 | | − 14 | | | |
| | | | $F_E$ | 〃 16 11.4 | | | | | | |
| | | | $F_N$ | 〃 16 5.0 | | | | | | |
| 137 | June 8 | Iv | P | 15 47 59.9 | | | | | 460 | Far ENE. Off the Siwoya Promontory. |
| | | | L | 〃 49 1.9 | | | | | | |
| | | | $M_E$ | 〃 49 50.5 | 2.6 | + 5 | | | | |
| | | | $M_N$ | 〃 49 45.9 | 2.6 | | + 7 | | | |
| | | | $M_Z$ | 〃 49 30.1 | 2.4 | | | ± 3 | | |
| | | | $F_E$ | 〃 53 41.5 | | | | | | |
| | | | $F_N$ | 〃 54 4.2 | | | | | | |
| | | | $F_Z$ | 〃 51 27.5 | | | | | | |
| 138 | June 11 | IIu | P | 0 57 31.7 | | | | | 5013 | In the south sea. |
| | | | L | 1 04 14.6 | | | | | | |
| | | | $M_E$ | 〃 08 14.2 | 5.3 | + 13 | | | | |
| | | | $M_N$ | 〃 07 50.9 | 5.7 | | − 12 | | | |
| | | | $M_Z$ | 〃 07 54.3 | 4.8 | | | + 6 | | |
| | | | $F_E$ | 〃 34 28.6 | | | | | | |
| | | | $F_N$ | 〃 34 16.6 | | | | | | |
| | | | $F_Z$ | 〃 33 24.6 | | | | | | |
| 139 | June 13 | Ir | P | 1 01 49.7 | | | | | 1865 | In the sea of Okhotsk. |
| | | | S | 〃 05 1.0 | | | | | | |
| | | | L | 〃 08 12.0 | | | | | | |
| | | | $M_E$ | 〃 09 17.4 | 5.0 | + 3 | | | | |
| | | | $M_N$ | 〃 08 58.0 | 3.6 | | − 6 | | | |
| | | | $M_Z$ | 〃 08 29.6 | 5.0 | | | − 3 | | |
| | | | $F_E$ | 〃 15 51.0 | | | | | | |
| | | | $F_N$ | 〃 16 17.9 | | | | | | |
| | | | $F_Z$ | 〃 14 44.0 | | | | | | |
| 140 | June 17 | IIv | P | 3 0 34.1 | | | | | 518 | SSE. Off the siwoya Promontory |
| | | | L | 〃 01 43.8 | | | | | | |
| | | | $M_E$ | 〃 02 40.1 | 2.8 | + 13 | | | | |
| | | | $M_N$ | 〃 02 29.7 | 2.3 | | − 14 | | | |
| | | | $F_E$ | 〃 07 58.8 | | | | | | |
| | | | $F_N$ | 〃 07 55.1 | | | | | | |
| 141 | June 18 | IIv | P | 12 13 26.8 | | | | | 529 | E. Off the siwoya Promontory. |
| | | | L | 〃 14 38.0 | | | | | | |
| | | | $M_E$ | 〃 15 24.4 | 2.5 | + 18 | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 12 | 15 | 19.2 | 2.5 | | + 30 | | | |
| | | | $M_Z$ | 〃 | 15 | 19.5 | 2.0 | | | + 8 | | |
| | | | $F_E$ | 〃 | 22 | 21.5 | | | | | | |
| | | | $F_N$ | 〃 | 22 | 4.3 | | | | | | |
| | | | $F_Z$ | 〃 | 21 | 47.9 | | | | | | |
| 142 | June 18 | Ⅲv | P | 20 | 46 | 49.2 | | | | | 391 | In the sea of Hyuga. |
| | | | L | 〃 | 47 | 41.8 | | | | | | |
| | | | $M_E$ | 〃 | 48 | 25.4 | 2.0 | + 5 | | | | |
| | | | $M_N$ | 〃 | 50 | 23.9 | 2.2 | | − 6 | | | |
| | | | $M_Z$ | 〃 | 48 | 32.6 | 2.1 | | | − 2 | | |
| | | | $F_E$ | 〃 | 54 | 39.3 | | | | | | |
| | | | $F_N$ | 〃 | 54 | 23.5 | | | | | | |
| | | | $F_Z$ | 〃 | 51 | 31.8 | | | | | | |
| 143 | June 21 | Ⅲv | P | 9 | 48 | 43.3 | | | | | 415 | Ditto. |
| | | | L | 〃 | 49 | 39.2 | | | | | | |
| | | | $M_E$ | 〃 | 50 | 13.7 | 2.3 | + 8 | | | | |
| | | | $M_N$ | 〃 | 50 | 35.2 | 2.3 | | − 11 | | | |
| | | | $M_Z$ | 〃 | 50 | 20.4 | 2.5 | | | ± 6 | | |
| | | | $F_E$ | 〃 | 58 | 11.8 | | | | | | |
| | | | $F_N$ | 〃 | 58 | 57.1 | | | | | | |
| | | | $F_Z$ | 〃 | 56 | 45.3 | | | | | | |
| 144 | June 23 | Ⅲv | P | 6 | 15 | 13.1 | | | | | 416 | Middle Basin of the Edo river. |
| | | | L | 〃 | 16 | 9.1 | | | | | | |
| | | | $M_E$ | 〃 | 16 | 26.2 | 2.4 | + 7 | | | | |
| | | | $M_N$ | 〃 | 16 | 43.1 | 2.3 | | − 8 | | | |
| | | | $M_Z$ | 〃 | 16 | 41.4 | 2.1 | | | + 5 | | |
| | | | $F_E$ | 〃 | 19 | 37.6 | | | | | | |
| | | | $F_N$ | 〃 | 19 | 54.3 | | | | | | |
| | | | $F_Z$ | 〃 | 18 | 37.1 | | | | | | |
| 145 | June 29 | Ⅲv | P | 0 | 26 | 12.5 | | | | | 458 | The lake Kasumigaura Nisiura. |
| | | | L | 〃 | 27 | 14.2 | | | | | | |
| | | | $M_E$ | 〃 | 27 | 32.5 | 2.1 | + 6 | | | | |
| | | | $M_N$ | 〃 | 27 | 36.1 | 2.5 | | + 14 | | | |
| | | | $M_Z$ | 〃 | 28 | 15.4 | 2.0 | | | ± 3 | | |
| | | | $F_E$ | 〃 | 30 | 19.9 | | | | | | |
| | | | $F_N$ | 〃 | 30 | 29.8 | | | | | | |
| | | | $F_Z$ | 〃 | 30 | 11.9 | | | | | | |

International Seismological Centre

# 顯著地震概況

## Special Earthquakes.

### 五月一日九十九里濱北部沿岸の地震

此地震は九十九里濱北部の沿岸に發したる强震にして有感覺區域關東全部、東北地方の大半、本州中部地方南東部及び北陸道の一部に及び銚子にては棚上の物體轉落せる所ありたり

各地にて觀測せる發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P-S | 繼續時間 S-L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P-S | 繼續時間 S-L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 銚子 | 9 58 04 | 0 6.1 | — | 45 | 多度津 | 9 59 34 | 1 27 | — | 646 |
| 水戸 | 〃 58 12 | 0 8.0 | — | 59 | 父島 | 〃 59 59 | 1 31 | — | 673 |
| 布良 | 〃 58 15 | 0 15.7 | — | 116 | 下關 | 10 00 05 | 2 06 | — | 935 |
| 横濱 | 〃 58 16 | 0 18.0 | — | 134 | 福岡 | 〃 00 05 | 2 10 | — | 968 |
| 熊谷 | 〃 58 17 | 0 19.0 | — | 141 | 京城 | 〃 00 41 | 2 21 | — | 1330 |
| 前橋 | 〃 58 24 | 0 24.1 | — | 179 | 仁川 | 〃 00 43 | 2 22 | — | 1340 |
| 松本 | 〃 58 26 | 0 33.0 | — | 245 | 石垣島 | 〃 02 04 | — | — | — |
| 高田 | 〃 58 39 | 0 38.4 | — | 285 | マニラ（比律賓） | 〃 03 36 | 5 41 | 4 43 | 4080 |
| 新潟 | 〃 58 40 | 0 39.0 | — | 289 | ロツカデイパパ（伊太利） | 〃 09 24 | 10 44 | — | 9690 |
| 岐阜 | 〃 58 46 | 0 47.8 | — | 355 | コペンハーゲン（丁抹） | 〃 09 56 | 9 52 | — | 8640 |
| 名古屋 | 〃 58 50 | 0 49.7 | — | 368 | ハムブルグ（獨逸） | 〃 10 10 | 10 05 | 17 45 | 8750 |
| 彦根 | 〃 58 58 | 0 58.1 | — | 431 | デビルト（和蘭） | 〃 10 26 | 10 22 | — | 9230 |
| 大阪 | 〃 59 04 | 1 09 | — | 514 | スツツトガルト（獨逸） | 〃 10 31 | 10 28 | 19 01 | 9200 |
| 神戸 | 〃 59 09 | 1 09 | — | 510 | チユーリヒ（瑞西） | 〃 10 33 | — | — | — |
| 洲本 | 〃 59 11 | 1 13 | — | 538 | ストラスブルグ（佛國） | 〃 10 35 | 10 30 | — | 9400 |
| 靑森 | 〃 59 16 | 1 16 | — | 563 | キユー（英國） | 〃 10 37 | 10 34 | 14 49 | 9470 |
| 函館 | 〃 59 18 | 1 17 | — | 568 | ニユーシヤテル（瑞西） | 〃 10 41 | — | — | — |
| 室蘭 | 〃 59 30 | 1 22 | — | 611 | パークサンマール（佛國） | 〃 10 42 | — | P-L 27 18 | — |
| 根室 | 〃 59 30 | 1 25 | — | 628 | | | | | |

### 五月五日「ビルマ」の地震

ビルマ地方、ラングーン北方六十哩許のペグー市に烈震あり震後大火を起し損害夥しく死者六千名と報せられ同市北方を流るる「イラワジ」河の支流ペグー河に架せる「ラグーンマンダレー」鐵道の大鐵橋も甚しく破壞せられたり

International Seismological Centre

各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 秒 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| (印度支那) 海防 | 22 48 20 | 2 42 | — | 1550 | (伊太利) パレデイポンペイ | 22 57 35 | — | — | 7500 |
| (比律賓) マニラ | 〃 51 08 | 4 05 | 2 15 | 2600 | (伊太利) パドー | 〃 57 36 | 9 32 | — | 8300 |
| 臺北 | 〃 51 15 | 4 28 | 2 54 | 2795 | (伊太利) フロレンス | 〃 57 37 | 8 30 | — | 8200 |
| (支那上海) ジガウエー | 〃 51 26 | 4 39 | — | 3110 | (獨逸) スツツトガルト | 〃 57 40 | 9 32 | 19 48 | 8400 |
| (ジヤワ島) バダビヤ | 〃 51 44 | 5 04 | — | 3470 | (佛國) ストラスブルグ | 〃 57 43 | 8 37 | — | 8350 |
| (ジヤワ島) マラバー | 〃 52 11 | 4 44 | — | 3015 | (瑞西) チューリヒ | 〃 57 43 | 9 37 | — | 8360 |
| (南洋モルツカ諸島) アンボイナ | 〃 52 49 | 6 15 | — | 4500 | (瑞西) ニューシヤテル | 〃 57 47 | 9 50 | — | 8600 |
| 高知 | 〃 52 54 | 5 53 | 4 55 | 4105 | (和蘭) デビルト | 〃 57 51 | 9 48 | — | 8550 |
| 大阪 | 〃 53 25 | 5 59 | 7 45 | 4206 | (白耳義) ウツクル | 〃 57 54 | 9 59 | — | 8580 |
| 長野 | 〃 53 45 | 6 11 | 6 50 | 5827 | (西班牙) パルセロナ | 〃 58 01 | 10 25 | — | 9290 |
| 名古屋 | 〃 53 45 | 5 54 | 7 58 | 4120 | (佛國) パークサンマール | 〃 58 04 | 9 58 | 19 58 | 8750 |
| 水澤 | 〃 54 00 | 6 37 | 10 52 | 4905 | (伊太利) カロフオート | 〃 58 04 | 9 36 | — | 8600 |
| 盛岡 | 〃 54 07 | 6 12 | 9 36 | 4440 | (英國) キユー | 〃 58 11 | 10 04 | 15 45 | 8870 |
| (シリア) クサラ | 〃 55 38 | 7 50 | — | 6250 | (英國) オツクスフオード | 〃 58 24 | 9 56 | — | 8710 |
| (埃及) カイロ | 〃 56 04 | 8 19 | — | 6800 | (西班牙) トルトサ | 〃 58 26 | 10 13 | — | 9050 |
| (マダガスカル島) タナナリボ | 〃 56 09 | 8 09 | — | 6600 | (西班牙) トレド | 〃 58 40 | 10 30 | — | 9400 |
| (芬蘭) ヘルシングホース | 〃 56 37 | 8 40 | — | 7200 | (西班牙) グラナダ | 〃 59 43 | 9 45 | — | 9709 |
| (ユーゴースラビヤ) ベルグラード | 〃 56 49 | 9 05 | — | 7700 | (葡萄牙) コインプラ | 〃 59 04 | 10 16 | — | 9116 |
| (伊太利) タレンテ | 〃 57 12 | 9 05 | — | 7700 | (西班牙) サンフエルナンド | 〃 59 28 | 9 58 | — | 8760 |
| (ユーゴースラビヤ) ザグレブ | 〃 57 15 | 9 06 | — | 7730 | (北米) セントルイス | 23 04 55 | — | P—L 39 45 | 13540 |
| (丁抹) コペンハーゲン | 〃 57 22 | 9 18 | — | 7960 | (カナダ) オツタワ | 〃 05 48 | — | P—L 34 12 | — |
| (伊太利) メツシナ | 〃 57 23 | 9 15 | — | 7900 | (南米) ラパズ | 〃 06 05 | — | — | 18300 |
| (伊太利) カタニヤ | 〃 57 28 | 9 18 | — | 7960 | (北米) アンアーバー | 〃 06 12 | — | P—L 36 24 | — |
| (伊太利) ロツカデイパパ | 〃 57 28 | 9 32 | — | 8250 | (北米) フオールドハム | 〃 06 24 | — | P—L 37 06 | 12700 |
| (濠洲) シドニー | 〃 57 29 | 9 37 | 12 54 | 8200 | (アラスカ) シトカ | 〃 06 38 | — | — | — |
| (佛國) プライサンス | 〃 57 30 | 9 52 | — | 8640 | (北米) ワシントン | 〃 06 54 | — | — | — |
| (伊太利) トレンタ | 〃 57 30 | 9 10 | — | 7800 | (布哇) ホノルル | 〃 09 20 | — | P—L 19 02 | — |
| (獨逸) ハムブルグ | 〃 57 33 | 9 30 | 18 57 | 8050 | (サモア諸島) アピア | 〃 11 31 | — | — | — |
| (伊太利) ナポリ | 〃 57 34 | 8 50 | — | 7400 | | | | | |

## 五月七日「ペルシヤ」の地震

此地震は「ペルシヤ」の最西部ウルミア湖西岸サルマス市に發したる烈震にして死者二千名住宅の大部分倒壊し甚大なる被害を與へたり

International Seismological Centre

各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| （シリア） | 時 分 秒 | 分 秒 | 分 秒 | 粁 | （英國） | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| クサラ | 7 36 25 | 0 25 | — | 230 | ストニーハースト | 7 41 23 | 5 36 | — | 4000 |
| （埃及） | | | | | （西班牙） | | | | |
| カイロ | 〃 37 41 | 2 51 | — | 1650 | トレド | 〃 41 38 | 5 44 | — | 3950 |
| （伊太利） | | | | | （西班牙） | | | | |
| メツシナ | 〃 38 32 | 4 05 | — | 2500 | グラナダ | 〃 41 41 | 6 01 | — | 4240 |
| （ユーゴースラビヤ） | | | | | （葡萄牙） | | | | |
| ベルグラード | 〃 38 48 | 3 42 | — | 2200 | コインブラ | 〃 41 58 | 6 10 | — | 4414 |
| （伊太利） | | | | | （西班牙） | | | | |
| タレンテ | 〃 39 09 | 4 22 | — | 2720 | サンフエルナンド | 〃 42 01 | — | — | 4360 |
| （伊太利） | | | | | （スマトラ島） | | | | |
| トレンタ | 〃 39 15 | — | — | 2600 | メダン | 〃 43 27 | — | — | — |
| （ユーゴースラビヤ） | | | | | （印度支那） | | | | |
| ザグレブ | 〃 39 26 | 4 10 | — | 2560 | 海防 | 〃 44 02 | 7 47 | — | 6200 |
| （伊太利） | | | | | （マダカスカル島） | | | | |
| カタニヤ | 〃 39 29 | 4 24 | — | 2750 | タナナリボ | 〃 44 10 | 7 57 | — | 6400 |
| （伊太利） | | | | | （支那上海） | | | | |
| ナポリ | 〃 39 41 | 3 45 | — | 2820 | ジガウエー | 〃 44 43 | 8 23 | — | 6844 |
| （伊太利） | | | | | 大阪 | 〃 45 25 | 9 08 | 15 41 | 7768 |
| ロツカデイパパ | 〃 39 42 | 4 18 | — | 2660 | 高知 | 〃 45 34 | 9 07 | 9 19 | 7730 |
| （芬蘭） | | | | | （比律賓） | | | | |
| ヘルシングホース | 〃 39 50 | 4 28 | — | 2800 | マニラ | 〃 45 39 | 9 15 | — | 7715 |
| （伊太利） | | | | | 長野 | 〃 45 44 | 9 18 | 9 21 | 7638 |
| フロレンス | 〃 39 58 | 4 35 | — | 2900 | 名古屋 | 〃 45 49 | 9 10 | 15 44 | 7800 |
| （伊太利） | | | | | 水澤 | 〃 45 58 | 9 47 | 16 10 | 8530 |
| パドー | 〃 39 59 | 4 30 | — | 2800 | （ジヤワ島） | | | | |
| （伊太利） | | | | | バタビヤ | 〃 46 6 | 9 02 | 10 34 | 7640 |
| リボルノ | 〃 40 01 | 4 15 | — | 2630 | （ジヤワ島） | | | | |
| （佛國） | | | | | マラバー | 〃 46 10 | — | — | — |
| プライサンス | 〃 40 10 | 4 50 | — | 2820 | （カナダ） | | | | |
| （獨逸） | | | | | オツタワ | 〃 46 42 | 10 16 | 15 38 | 9100 |
| スツツトガルト | 〃 40 11 | 4 54 | 4 25 | 3100 | （北米） | | | | |
| （瑞西） | | | | | フオールドハム | 〃 47 03 | 10 15 | 15 42 | 8970 |
| チューリヒ | 〃 40 13 | 5 03 | — | 3260 | （北米） | | | | |
| （丁抹） | | | | | アンアーバー | 〃 47 12 | 10 24 | — | 9280 |
| コペンハーゲン | 〃 40 14 | 4 48 | — | 3070 | （南洋モルツカ諸島） | | | | |
| （佛國） | | | | | （アンボイナ） | 〃 47 14 | 10 25 | 12 21 | 9290 |
| ストラスブルグ | 〃 40 19 | 5 06 | — | 3300 | （北米） | | | | |
| （獨逸） | | | | | バツフアロ | 〃 47 20 | 10 06 | — | 8910 |
| ハムブルグ | 〃 40 19 | 4 55 | 5 04 | 3170 | （北米） | | | | |
| （アフリカ北部） | | | | | セントルイス | 〃 47 33 | 10 39 | — | 9590 |
| チユニス | 〃 40 20 | 5 11 | — | 3410 | （カナダ） | | | | |
| （伊太利） | | | | | ビクトリア | 〃 48 00 | — | — | — |
| カロフオート | 〃 40 20 | 4 35 | — | 3600 | （北米） | | | | |
| （瑞西） | | | | | ミルウオーキー | 〃 52 29 | — | — | — |
| ニユーシヤテル | 〃 40 22 | 3 54 | — | 3150 | （北米） | | | P—L | |
| （和蘭） | | | | | タクソン | 〃 53 08 | — | 38 36 | — |
| デビルト | 〃 40 41 | 5 03 | — | 3280 | （南米） | | | | |
| （白耳義） | | | | | ラパズ | 〃 53 18 | 11 27 | — | 10770 |
| ウツクル | 〃 40 44 | 5 09 | — | 3380 | （濠洲） | | | P—L | |
| （佛國） | | | | | シドニー | 〃 54 47 | — | 29 37 | — |
| パークサンマール | 〃 40 51 | 5 23 | 1 46 | 3590 | | | | | |
| （西班牙） | | | | | | | | | |
| バルセロナ | 〃 40 59 | 5 20 | — | 3540 | | | | | |
| （西班牙） | | | | | | | | | |
| トルトサ | 〃 41 07 | 5 33 | — | 3750 | | | | | |
| （英國） | | | | | | | | | |
| キユー | 〃 41 09 | 5 33 | 2 54 | 3750 | | | | | |

## 五月十七日伊豆伊東沖の地震

此地震は本年二月十五日以來伊豆伊東町附近に發したる多くの地震中最大なるものにして眞鶴町眞壁にては石垣の崩壞、壁の剝落等ありたり

各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 沼津 | 5 14 13 | 0 4.4 | — | 33 | 京都 | 5 14 54 | 0 48.1 | — | 357 |
| 布良 | 〃 14 18 | 0 8.2 | — | 61 | 大阪 | 〃 14 57 | 0 49.7 | — | 369 |
| 横濱 | 〃 14 19 | 0 10.4 | — | 77 | 神戸 | 〃 14 59 | 0 51.6 | — | 383 |
| 東京 | 〃 14 25 | 0 13.6 | — | 101 | 和歌山 | 〃 15 01 | 0 57.0 | — | 423 |
| 濱松 | 〃 14 28 | 0 16.2 | — | 121 | 多度津 | 〃 15 10 | 0 58.6 | — | 435 |
| 熊谷 | 〃 14 29 | 0 16.4 | — | 122 | 水澤 | 〃 15 17 | 1 6.0 | — | 490 |
| 銚子 | 〃 14 34 | 0 19.1 | — | 142 | 高知 | 〃 15 22 | 1 1.0 | — | 536 |
| 前橋 | 〃 14 36 | 0 19.4 | — | 144 | 濱田 | 〃 15 36 | 1 18.5 | — | 583 |
| 名古屋 | 〃 14 39 | 0 23.9 | — | 178 | 廣島 | 〃 15 42 | 1 20.1 | — | 595 |
| 長野 | 〃 14 41 | 0 24.8 | — | 184 | 熊本 | 〃 15 56 | 1 49.5 | — | 813 |
| 岐阜 | 〃 14 45 | 0 27.0 | — | 200 | 福岡 | 〃 16 06 | 1 53.5 | — | 843 |
| 高田 | 〃 14 45 | 0 29.1 | — | 216 | 函館 | 〃 16 21 | 1 51.5 | — | 828 |
| 潮岬 | 〃 14 52 | 0 37.1 | — | 276 | 釜山 | 〃 18 08 | — | — | — |
| 八丈島 | 〃 14 52 | — | — | — | マニラ（比律賓） | 〃 20 19 | — | — | — |

## 五月二十四日伊豆大島南方の地震

此地震は伊豆大島の南方海底に發したる强震にして有感覺區域北東方は宮古邊に南方は八丈島に西方は濱松邊に達したり

各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | P—S | 初動方向 | 震央距離 | 觀測所名 | 發震時 | P—S | 初動方向 | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | | 粁 | | 時 分 秒 | 分 秒 | | 粁 |
| 布良 | 1 38 29 | 0 13.5 | S 25 E | 100 | 神戸 | 1 39 06 | 0 44.3 | — | 329 |
| 八丈島 | 〃 38 33 | 0 17.6 | N 3 E | 131 | 和歌山 | 〃 39 09 | 0 42.0 | S 62 E | 312 |
| 沼津 | 〃 38 33 | 0 18.4 | N 48 W | 137 | 仙臺 | 〃 39 10 | 0 46.1 | N 20 E | 342 |
| 東京 | 〃 38 39 | 0 21.8 | N | 162 | 山形 | 〃 39 15 | 0 46.8 | — | 347 |
| 甲府 | 〃 38 42 | 0 23.3 | — | 173 | 水澤 | 〃 39 22 | 0 56.0 | — | 416 |
| 筑波山 | 〃 38 43 | 0 24.0 | N 36 E | 178 | 高知 | 〃 39 25 | 0 58.2 | N 82 E | 432 |
| 柿岡 | 〃 38 44 | 0 28.0 | N 22 E | 208 | 宮古 | 〃 39 34 | 1 00.0 | — | 445 |
| 宇都宮 | 〃 38 49 | 0 29.2 | — | 217 | 吳 | 〃 39 35 | 1 06.0 | — | 490 |
| 前橋 | 〃 38 50 | 0 31.2 | S 15 E | 232 | 廣島 | 〃 39 37 | 1 10.7 | — | 524 |
| 高山 | 〃 38 52 | 0 37.1 | SE | 276 | 宮崎 | 〃 39 56 | 1 21.2 | N 70 E | 603 |
| 潮岬 | 〃 39 01 | 0 37.4 | N 84 E | 278 | 長崎 | 〃 40 05 | 1 37.2 | — | 722 |
| 京都 | 〃 39 02 | 0 38.8 | S 81 E | 288 | 函館 | 〃 40 12 | 1 41.0 | N 12 E | 749 |
| 大阪 | 〃 39 04 | 0 42.6 | S 52 E | 317 | 旭川 | 〃 40 24 | 1 41.0 | — | 749 |
| 福島 | 〃 39 05 | 0 40.1 | S | 298 | 根室 | 〃 40 41 | 1 48.3 | — | 803 |

International Seismological Centre

| 觀測所名 | 發震時 | P—S | 初動方向又ハS—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | | 粁 | | 時 分 秒 | 分 秒 | | 粁 |
| 京城 | 1 40 44 | 2 02.0 | S 72 E | 905 | (佛國) プライサンス | 1 51 00 | 10 28 | — | 9350 |
| 仁川 | 〃 40 47 | 2 05.2 | S 79 E | 930 | (和蘭) デビルト | 〃 51 03 | 9 42 | — | 8430 |
| 石垣島 | 〃 41 55 | — | — | — | (佛國) ストラスブルグ | 〃 51 09 | 9 45 | — | 8500 |
| 臺北 | 〃 42 15 | — | — | — | (英國) キュー | 〃 51 17 | — | P—L 36 43 | — |
| (比律賓) マニラ | 〃 43 22 | 4 09 | (S—L) 2 25 | 2656 | (伊太利) フロレンス | 〃 51 30 | 9 55 | — | 8700 |
| (獨逸) スツツトガルト | 〃 46 00 | 14 50 | — | 9000 | (瑞西) チューリヒ | 2 00 57 | — | — | — |
| (獨逸) ハムブルグ | 〃 50 18 | 10 01 | (S—L) 20 41 | 8700 | (伊太利) ロツカデイパパ | 〃 01 12 | — | P—L 22 42 | — |
| (佛國) パークサンマール | 〃 51 00 | — | P—L 34 00 | — | | | | | |

## 六月一日那珂川下流地方の地震

此地震は常陸那珂川下流域に發したる强震にして水戸市及び其附近町村にては壁の龜裂墓石轉倒、煉瓦塀の崩壞、屋根瓦の墜落、等の小被害ありたり

各地測候所の發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 水戸 | 2 58 31 | 0 6.6 | — | 49 | 岐阜 | 2 59 15 | 0 54.8 | — | 407 |
| 柿岡 | 〃 58 33 | 0 7.7 | — | 58 | 津 | 〃 59 21 | 0 57.5 | — | 427 |
| 筑波山 | 〃 58 33 | 0 7.6 | — | 57 | 京都 | 〃 59 24 | 1 2.0 | — | 460 |
| 宇都宮 | 〃 58 35 | 0 8.3 | — | 62 | 大阪 | 〃 59 32 | 1 7.1 | — | 498 |
| 銚子 | 〃 58 36 | 0 11.1 | — | 82 | 神戸 | 〃 59 34 | 1 13.5 | — | 546 |
| 東京 | 〃 58 39 | 0 10.8 | — | 80 | 潮岬 | 〃 59 35 | 1 21.5 | — | 605 |
| 熊谷 | 〃 58 41 | 0 14.5 | — | 108 | 温泉岳 | 3 00 23 | 1 58.8 | — | 882 |
| 前橋 | 〃 58 45 | 0 16.6 | — | 123 | 福岡 | 〃 00 32 | 2 23.1 | — | 1351 |
| 福島 | 〃 58 45 | 0 16.9 | — | 126 | 宮崎 | 〃 00 33 | 2 27.2 | — | 1402 |
| 横須賀 | 〃 58 45 | 0 16.2 | — | 121 | 下關 | 〃 00 33 | 2 37.9 | — | 1507 |
| 追分 | 〃 58 48 | 0 20.5 | — | 152 | 父島 | 〃 00 33 | — | — | — |
| 布良 | 〃 58 51 | 0 22.7 | — | 168 | 釜山 | 〃 00 43 | — | — | — |
| 長野 | 〃 58 57 | 0 24.8 | — | 185 | 臺北 | 〃 02 53 | — | — | — |
| 高田 | 〃 58 57 | 0 25.1 | — | 187 | (比律賓) マニラ | 〃 04 12 | — | — | — |
| 新潟 | 〃 58 57 | 0 24.9 | — | 185 | (獨逸) ハムブルグ | 〃 10 32 | 10 03 | 19 25 | 8850 |
| 沼津 | 〃 58 58 | 0 25.3 | — | 188 | (獨逸) スツツトガルト | 〃 10 53 | 10 27 | 20 40 | 9300 |
| 山形 | 〃 59 00 | 0 26.4 | — | 196 | (伊太利) フロレンス | 〃 11 4 | 10 54 | — | 9920 |
| 濱松 | 〃 59 11 | 0 39.4 | — | 292 | (伊太利) ローマ | 〃 11 11 | 11 05 | — | 10150 |
| 盛岡 | 〃 59 12 | 0 41.5 | — | 308 | (佛國) プライサンス | 〃 11 12 | 10 44 | — | 9680 |

International Seismological Centre

# 大阪測候所地震觀測表

# Seismological Bulletin

## of the Meteorological Observatory of Osaka, Japan.

北緯三十四度三十九分二秒　東經百三十五度三十二分九秒　高さ三米四

$\varphi = 34^{\circ}39' 2''$ N.　$\lambda = 135^{\circ}32'9''$ E.　H=3.4m.

下層土　砂質壤土(第四期古層)

Sub-soil : Sandy Loam(Oldquaternary)

| 地震計 Instruments | | 倍率 Vo | 固有週期 To | 摩擦係數 $\frac{r}{To^2}$ | 制振度 ε | 質量 (mass) |
|---|---|---|---|---|---|---|
| | | 倍 | 秒 | | | 瓲 |
| Ormori Horizontal Pendulum tomometer. 大森式地動計 | Ncomp. | 20 | 30 | 0.003 | — | 17.000 |
| | Ecomp. | 20 | 30 | 0,003 | — | 17.000 |
| Omori Vertical-motion seismograph. 大森式上下微動計 | Zcomp. | 20 | 15 | 0.004 | — | 4.119 |
| Omori Horizontal Pendulum tromo meter. 大森式微動計 | Ncomp | 120 | 15 | 0,005 | — | 63.000 |
| Omori Portable seismometer. 大森式簡單微動計 | Ncomp. | 60 | 4 | 0.092 | — | 12.800 |
| | Ecomp. | 60 | 4 | 0.092 | — | 12.800 |
| Omori Strong-motion Seismograph. 大森式強震計 | Ncomp. | 1 | 5 | 0.003 | — | 1.680 |
| | Ecomp. | 1 | 5 | 0,003 | — | 1.680 |
| | Zcomp. | 2 | 5 | 0,003 | — | 0.890 |
| Imamura Strong-motion Seismograph. 今村式強震計 | Ncomp. | 2 | 8 | 0.024 | 2.0 | 2.000 |
| | Ecomp. | 2 | 8 | 0.024 | 2,0 | 2.050 |
| | Zcomp. | 2 | 3 | 0.032 | 4.0 | 0.380 |
| Omori. Clinometer 大森式傾斜計 | Ncomp. | 15 | 15 | 0.003 | — | 6.200 |
| | Ecomp. | 15 | 15 | 0.003 | — | 6.200 |
| Wiecherts Horizontal Seismograph. ヴィヘルト水平動 | Ncomp. | 80 | 5 | 0.023 | 3.7 | 200.000 |
| | Ecomp. | 80 | 4 | 0.023 | 3.7 | 200.000 |
| Wiecherts Vertical Seismograph. ヴィヘルト上下動 | Zcomp. | 80 | 6 | 0.014 | 3 5 | 80.000 |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 146 | July 2 | Ⅳv | P | 8 | 18 | 52.9 | | | | | 125 | Near Go-mura, Northern part of Tango Province |
| | | | L | 〃 | 19 | 09.7 | | | | | | |
| | | | $M_E$ | 〃 | 19 | 11.3 | 0.3 | ± 23 | | | | |
| | | | $M_N$ | 〃 | 19 | 11.9 | 0.3 | | − 13 | | | |
| | | | $M_Z$ | 〃 | 19 | 24.3 | 0.3 | | | ± 5 | | |
| | | | $F_E$ | 〃 | 21 | 50.0 | | | | | | |
| | | | $F_Z$ | 〃 | 21 | 10.0 | | | | | | |
| 147 | July 2 | Ⅶr | P | 21 | 11 | 15.4 | | | | | 4452 | Assam, India |
| | | | S | 〃 | 17 | 28.0 | | | | | | |
| | | | L | 〃 | 25 | 29.5 | | | | | | |
| | | | $M_E$ | 〃 | 30 | 42.6 | 11.9 | − 37 | | | | |
| | | | $M_N$ | 〃 | 26 | 02.5 | 7.1 | | − 20 | | | |
| | | | $M_Z$ | 〃 | 30 | 45.1 | 5.7 | | | − 15 | | |
| | | | F | 22 | 00 | 30.0 | | | | | | |
| 148 | July 4 | Ⅰv | P | 13 | 38 | 34.6 | | | | | 91 | Upper Valley of the Hidaka river. Wakayama prefecture. |
| | | | L | 〃 | 38 | 46.8 | | | | | | |
| | | | $M_E$ | 〃 | 38 | 46.8 | 0.4 | + 8 | | | | |
| | | | $M_N$ | 〃 | 38 | 52.0 | 0.4 | | + 3 | | | |
| | | | $M_Z$ | 〃 | 38 | 46.8 | 0.4 | | | + 1 | | |
| | | | $F_E$ | 〃 | 41 | 10.0 | | | | | | |
| | | | $F_Z$ | 〃 | 40 | 0.0 | | | | | | |
| 149 | July 4 | Ⅱv | P | 16 | 34 | 53.3 | | | | | 175 | Off the mouth of Naka river, Ibaraki prefecture. |
| | | | L | 〃 | 35 | 57.2 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 38.4 | 2.4 | + 8 | | | | |
| | | | $M_N$ | 〃 | 36 | 25.2 | 2.8 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 36 | 20.2 | 2.0 | | | + 5 | | |
| | | | F | 〃 | 39 | 50.0 | | | | | | |
| 150 | July 5 | Ⅱv | P | 8 | 58 | 28.1 | | | | | 530 | NE off the Sioya Cape. Fukusima prefecture. |
| | | | L | 〃 | 59 | 39.5 | | | | | | |
| | | | $M_E$ | 9 | 00 | 12.8 | 2.4 | + 7 | | | | |
| | | | $M_N$ | 〃 | 00 | 14.5 | 2.4 | | + 10 | | | |
| | | | $M_Z$ | 〃 | 00 | 10.8 | 2.2 | | | − 4 | | |
| | | | F | 〃 | 04 | 30.0 | | | | | | |
| 151 | July 5 | Ⅴu | P | 18 | 04 | 24.3 | | | | | 5097 | In the South sea. |
| | | | L | 〃 | 11 | 11.9 | | | | | | |
| | | | $M_E$ | 〃 | 12 | 01.9 | 4.4 | ± 6 | | | | |
| | | | $M_N$ | 〃 | 11 | 58.3 | 4.0 | | + 10 | | | |
| | | | $M_Z$ | 〃 | 11 | 47.1 | 4.4 | | | + 4 | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude, $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | F | 18 | 21 | 10.0 | | | | | | |
| 152 | July 10 | Iv | P | 11 | 38 | 21.1 | | | | | 297 | Mt. Omuro, Izu province. |
| | | | L | 〃 | 39 | 01.1 | | | | | | |
| | | | $M_E$ | 〃 | 39 | 34.9 | 2.2 | − 8 | | | | |
| | | | $M_N$ | 〃 | 39 | 24.0 | 2.6 | | + 22 | | | |
| | | | $M_Z$ | 〃 | 39 | 25.1 | 2.0 | | | − 6 | | |
| | | | F | 〃 | 44 | 50.0 | | | | | | |
| 153 | July 10 | IIv | P | 12 | 35 | 01.0 | | | | | — | ESE off the Onmae Cape. |
| | | | eL | 〃 | 35 | 25.5 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 22.6 | 2.0 | + 69 | | | | |
| | | | $M_N$ | 〃 | 36 | 11.1 | 1.7 | | − 75 | | | |
| | | | $M_Z$ | 〃 | 36 | 17.2 | 2.0 | | | + 20 | | |
| | | | F | 〃 | 46 | 20.0 | | | | | | |
| 154 | July 13 | Vr | P | 19 | 33 | 34.4 | | | | | 3254 | Kan-su district, China. |
| | | | S | 〃 | 38 | 35.3 | | | | | | |
| | | | L | 〃 | 44 | 15.5 | | | | | | |
| | | | $M_N$ | 〃 | 45 | 12.8 | 10.6 | | + 8 | | | |
| | | | F | 20 | 14 | 10.0 | | | | | | |
| 155 | July 14 | Iv | P | 10 | 25 | 41.1 | | | | | 565 | In the sea of Kasima. |
| | | | L | 〃 | 26 | 57.2 | | | | | | |
| | | | $M_E$ | 〃 | 27 | 24.6 | 3.2 | + 8 | | | | |
| | | | $M_N$ | 〃 | 27 | 10.6 | 3.6 | | − 11 | | | |
| | | | $M_Z$ | 〃 | 27 | 34.8 | 2.6 | | | − 5 | | |
| | | | F | 〃 | 31 | 0.0 | | | | | | |
| 156 | July 16 | Iv | **P** | **16** | **28** | **04.3** | | | | | **55** | **Upper basin of the Ōi river Kyoto prefecture. Felt slightly.** |
| | | | L | 〃 | 28 | 11.6 | | | | | | |
| | | | $M_E$ | 〃 | 28 | 11.6 | 0.4 | + 19 | | | | |
| | | | $M_N$ | 〃 | 28 | 13.1 | 0.4 | | − 14 | | | |
| | | | $M_Z$ | 〃 | 28 | 11.6 | 0.3 | | | + 5 | | |
| | | | $F_N$ | 〃 | 30 | 40.0 | | | | | | |
| | | | $F_Z$ | 〃 | 30 | 20.0 | | | | | | |
| 157 | July 22 | IIr | P | 19 | 28 | 56.5 | | | | | 1705 | SE off Etrop Island. Kurile Ils. |
| | | | L | 〃 | 31 | 53.0 | | | | | | |
| | | | $M_E$ | 〃 | 32 | 22.2 | 2.4 | + 45 | | | | |
| | | | $M_N$ | 〃 | 32 | 26.8 | 2.2 | | + 74 | | | |
| | | | $M_Z$ | 〃 | 32 | 32.3 | 2.0 | | | − 33 | | |
| | | | $F_E$ | 〃 | 53 | 50.0 | | | | | | |
| | | | $F_Z$ | 〃 | 42 | 40.0 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitnde $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 158 | July 23 | Mu | ep | 0 | 31 | 32.6 | | | | | 9112 | Southern part of Italy. |
| | | | S | 〃 | 41 | 48.9 | | | | | | |
| | | | L | 〃 | 55 | 40.4 | | | | | | |
| | | | $M_N$ | 1 | 00 | 44.0 | 17.1 | | + 9 | | | |
| | | | F | 〃 | 34 | 40.0 | | | | | | |
| 159 | July 23 | — | P | — | — | — | | | | | — | — |
| | | | eS | 18 | 58 | 24.6 | | | | | | |
| | | | L | 19 | 05 | 49.5 | | | | | | |
| | | | $M_N$ | 〃 | 09 | 07.3 | 9.6 | | + 2 | | | |
| | | | F | 〃 | 23 | 30.0 | | | | | | |
| 160 | July 30 | I v | P | 6 | 42 | 05.4 | | | | | 336 | West off the Ama Cape, Noto peninsula. |
| | | | L | 〃 | 42 | 50.6 | | | | | | |
| | | | $M_E$ | 〃 | 43 | 15.9 | 2.1 | + 10 | | | | |
| | | | $M_N$ | 〃 | 43 | 06.1 | 2.1 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 43 | 05.6 | 2.0 | | | + 5 | | |
| | | | F | 〃 | 47 | 0.0 | | | | | | |
| 161 | Aug. 4 | Ov | P | 5 | 23 | 02.9 | | | | | 475 | SW off Hatijo Ils. |
| | | | eL | 〃 | 24 | 06.9 | | | | | | |
| | | | $M_E$ | 〃 | 24 | 08.2 | 1.7 | − 4 | | | | |
| | | | $M_N$ | 〃 | 24 | 17.8 | 1.7 | | + 6 | | | |
| | | | $F_E$ | 〃 | 32 | 10.0 | | | | | | |
| | | | $F_Z$ | 〃 | 29 | 10.0 | | | | | | |
| 162 | Aug. 6 | I v | P | 21 | 34 | 19.8 | | | | | 88 | Upper Valley of the Hidaka river, Wakayama prefecture. |
| | | | L | 〃 | 34 | 31.6 | | | | | | |
| | | | $M_E$ | 〃 | 34 | 32.1 | 0.4 | + 10 | | | | |
| | | | $M_N$ | 〃 | 34 | 31.9 | 0.3 | | − 16 | | | |
| | | | $M_Z$ | 〃 | 34 | 31.9 | 0.2 | | | + 5 | | |
| | | | $F_E$ | 〃 | 36 | 50.0 | | | | | | |
| | | | $F_Z$ | 〃 | 36 | 10.0 | | | | | | |
| 163 | Aug. 10 | Ov | P | 13 | 11 | 37.9 | | | | | 182 | SE off Sima peninsula. |
| | | | L | 〃 | 12 | 02.4 | | | | | | |
| | | | $M_E$ | 〃 | 13 | 00.4 | 3.0 | − 11 | | | | |
| | | | $M_N$ | 〃 | 13 | 07.7 | 3.0 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 12 | 48.3 | 2.4 | | | − 6 | | |
| | | | $F_E$ | 〃 | 16 | 3.00 | | | | | | |
| | | | $F_Z$ | 〃 | 16 | 20.0 | | | | | | |
| 164 | Aug. 14 | Ov | P | 19 | 17 | 30.7 | | | | | 55 | Middle Valley of the Kino Kawa, Wakayama prefecture. |
| | | | L | 〃 | 17 | 38.0 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 19 | 17 | 38.0 | 0.4 | + 6 | | | | |
| | | | $M_N$ | 〃 | 17 | 38.0 | 0.4 | | − 8 | | | |
| | | | $F_E$ | 〃 | 18 | 50.0 | | | | | | |
| | | | $F_Z$ | 〃 | 18 | 40.0 | | | | | | |
| 165 | Aug. 15 | Iv | P | 2 | 44 | 08.9 | | | | | 321 | Izu. |
| | | | L | 〃 | 44 | 52.2 | | | | | | |
| | | | $M_E$ | 〃 | 45 | 11.7 | 2.2 | + 10 | | | | |
| | | | $M_N$ | 〃 | 45 | 11.2 | 2.3 | | + 16 | | | |
| | | | $M_Z$ | 〃 | 45 | 41.1 | 2.0 | | | + 6 | | |
| | | | F | 〃 | 49 | 10.0 | | | | | | |
| 166 | Aug. 15 | Iv | P | 5 | 59 | 40.1 | | | | | 88 | In the Kii Channel. |
| | | | L | 〃 | 59 | 51.9 | | | | | | |
| | | | F | 6 | 02 | 30.0 | | | | | | |
| 167 | Aug. 17 | Vv | P | 9 | 29 | 29.1 | | | | | 390 | Northern part of the Uraga Channel. |
| | | | L | 〃 | 30 | 21.6 | | | | | | |
| | | | $M_{E1}$ | 〃 | 31 | 13.2 | 2.3 | +186 | | | | |
| | | | $M_{N1}$ | 〃 | 30 | 58.2 | 2.2 | | +225 | | | |
| | | | $M_{Z1}$ | 〃 | 30 | 55.2 | 2.6 | | | +100 | | |
| | | | $M_{E2}$ | 〃 | 31 | 38.6 | 3.2 | −188 | | | | |
| | | | $M_{N2}$ | 〃 | 31 | 39.7 | 2.3 | | +218 | | | |
| | | | $M_{Z2}$ | 〃 | 31 | 24.3 | 2.3 | | | + 88 | | |
| | | | $F_E$ | 〃 | 48 | 40.0 | | | | | | |
| | | | $F_Z$ | 〃 | 42 | 50.0 | | | | | | |
| 168 | Aug. 18 | Vr | P | 10 | 12 | 44.4 | | | | | 3195 | Distant earthquakes. |
| | | | S | 〃 | 17 | 40.4 | | | | | | |
| | | | L | 〃 | 24 | 41.3 | | | | | | |
| | | | $M_E$ | 〃 | 25 | 54.5 | 5.6 | + 8 | | | | |
| | | | $M_N$ | 〃 | 25 | 30.1 | 3.9 | | + 6 | | | |
| | | | F | 〃 | 32 | 50.0 | | | | | | |
| 169 | Aug. 18 | IIv | P | 19 | 43 | 35.4 | | | | | 517 | In the Kasima Sea. |
| | | | L | 〃 | 44 | 44.9 | | | | | | |
| | | | $M_E$ | 〃 | 45 | 38.0 | 2.6 | − 19 | | | | |
| | | | $M_N$ | 〃 | 45 | 26.2 | 3.6 | | + 30 | | | |
| | | | F | 〃 | 50 | 40.0 | | | | | | |
| 170 | Aug. 19 | IIv | P | 12 | 41 | 08.9 | | | | | 349 | North off the Osima, Izu province. |
| | | | L | 〃 | 41 | 55.9 | | | | | | |
| | | | $M_E$ | 〃 | 43 | 08.4 | 2.1 | + 14 | | | | |
| | | | $M_N$ | 〃 | 42 | 23.5 | 2.0 | | ± 20 | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_Z$ | 12 | 42 | 28.0 | | | | | | |
| | | | F | 〃 | 47 | 30.0 | | | | | | Northern part of the |
| 171 | Aug. 19 | Ⅳv | P | 17 | 42 | 56.1 | | | | | 495 | Kuju-kuri Shore, Tiba |
| | | | L | 〃 | 44 | 02.8 | | | | | | prefecture. |
| | | | $M_E$ | 〃 | 44 | 36.3 | 1.9 | − 39 | | | | |
| | | | $M_N$ | 〃 | 44 | 37.7 | 2.3 | | + 58 | | | |
| | | | $M_Z$ | 〃 | 44 | 27.6 | 2.3 | | | − 26 | | |
| | | | $F_N$ | 〃 | 55 | 40.0 | | | | | | |
| | | | $F_Z$ | 〃 | 49 | 20.0 | | | | | | |
| 172 | Aug. 20 | Ⅳr | P | 20 | 57 | 25.0 | | | | | 1782 | West off Yonakuni Island |
| | | | L | 21 | 00 | 28.2 | | | | | | Ryukyu Ils. |
| | | | $M_E$ | 〃 | 06 | 40.2 | 5.3 | + 18 | | | | |
| | | | $M_N$ | 〃 | 06 | 14.0 | 5.8 | | − 19 | | | |
| | | | $M_Z$ | 〃 | 06 | 55 5 | 4 5 | | | + 18 | | |
| | | | $F_E$ | 〃 | 40 | 50.0 | | | | | | |
| | | | $F_N$ | 〃 | 40 | 0.0 | | | | | | |
| 173 | Aug. 21 | Ⅱv | P | 10 | 46 | 25.7 | | | | | 887 | South off the Erimo |
| | | | L | 〃 | 48 | 25.2 | | | | | | Cape, Hokkaido. |
| | | | $M_E$ | 〃 | 49 | 48.2 | 3.2 | + 11 | | | | |
| | | | $M_N$ | 〃 | 49 | 27.7 | 2.1 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 49 | 56.6 | 2.5 | | | ± 4 | | |
| | | | $F_E$ | 〃 | 55 | 3.00 | | | | | | |
| | | | $F_Z$ | 〃 | 55 | 00.0 | | | | | | |
| 174 | Aug. 24 | Ov | P | 2 | 44 | 26.0 | | | | | 316 | In the Sea of Sagami. |
| | | | L | 〃 | 45 | 08.5 | | | | | | |
| | | | $M_E$ | 〃 | 45 | 34.1 | 2.2 | ± 2 | | | | |
| | | | $M_N$ | 〃 | 45 | 32.1 | 2.6 | | ± 7 | | | |
| | | | $M_Z$ | 〃 | 46 | 00.7 | 2.9 | | | ± 2 | | |
| | | | F | 〃 | 50 | 30.0 | | | | | | |
| 175 | Aug. 26 | Ⅱv | P | 12 | 41 | 50.5 | | | | | 962 | East off the Erimo Cape, |
| | | | L | 〃 | 44 | 00.1 | | | | | | Hokkaido. |
| | | | $M_E$ | 〃 | 44 | 58.4 | 2.2 | ± 3 | | | | |
| | | | $M_N$ | 〃 | 44 | 53.7 | 3.0 | | ± 3 | | | |
| | | | $M_Z$ | 〃 | 44 | 57.8 | 2.6 | | | ± 2 | | |
| | | | $F_E$ | 〃 | 54 | 20.0 | | | | | | |
| | | | $F_Z$ | 〃 | 53 | 10.0 | | | | | | |
| 176 | Aug. 29 | Ⅳr | P | 20 | 05 | 28.7 | | | | | 1872 | In the Kunasiri Channel |
| | | | L | 〃 | 08 | 40.5 | | | | | | Kurile Ils. |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 20 | 09 | 04.3 | 2.9 | ± 5 | | | | |
| | | | $M_N$ | 〃 | 09 | 23.8 | 2.1 | | ± 5 | | | |
| | | | $M_Z$ | 〃 | 09 | 25.7 | 2.7 | | | ± 4 | | |
| | | | $F_N$ | 〃 | 19 | 30.0 | | | | | | |
| | | | $F_Z$ | 〃 | 17 | 40.0 | | | | | | |
| 177 | Aug. 30 | Oa | P | 14 | 45 | 15.3 | | | | | 19 | Osaka.(local earthquakes) |
| | | | L | 〃 | 45 | 17.9 | | | | | | |
| | | | $M_E$ | 〃 | 45 | 18.0 | 0.2 | + 5 | | | | |
| | | | $M_N$ | 〃 | 45 | 18.5 | 0.2 | | + 4 | | | |
| | | | $F_E$ | 〃 | 46 | 0.0 | | | | | | |
| | | | $F_N$ | 〃 | 45 | 50.0 | | | | | | |
| 178 | Sept. 4 | Ⅳv | P | 4 | 19 | 17.5 | | | | | 707 | East off Kinkazan, Miyagi prefecture. |
| | | | L | 〃 | 20 | 52.7 | | | | | | |
| | | | $M_E$ | 〃 | 22 | 01.2 | 2.4 | − 9 | | | | |
| | | | $M_N$ | 〃 | 22 | 01.2 | 2.4 | | − 13 | | | |
| | | | $M_Z$ | 〃 | 21 | 30.6 | 2.4 | | | − 4 | | |
| | | | $F_E$ | 〃 | 26 | 0.0 | | | | | | |
| | | | $F_Z$ | 〃 | 25 | 20.0 | | | | | | |
| 179 | Sept. 5 | Iv | e p | 20 | 02 | 00.3 | | | | | 49 | Upper basin of the Iti-kawa, Harima province. |
| | | | L | 〃 | 02 | 06.9 | | | | | | |
| | | | $M_E$ | 〃 | 02 | 06.9 | 0.8 | ± 6 | | | | |
| | | | $M_N$ | 〃 | 02 | 06.9 | 0.8 | | + 1 | | | |
| | | | F | 〃 | 03 | 40.0 | | | | | | |
| 180 | Sept. 10 | Ov | P | 22 | 25 | 03.6 | | | | | 514 | ESE-far off Tyosi Tiba prefecture. |
| | | | L | 〃 | 26 | 12.7 | | | | | | |
| | | | $M_E$ | 〃 | 28 | 36.2 | 3.5 | + 6 | | | | |
| | | | $M_N$ | 〃 | 28 | 36.2 | 3.7 | | + 8 | | | |
| | | | $M_Z$ | 〃 | 27 | 20.2 | 2.4 | | | ± 3 | | |
| | | | F | 〃 | 40 | 30 0 | | | | | | Upper valley of the Nabari river, Koti prefecture |
| 181 | Sept. 11 | Ov | e.p | 4 | 22 | 05.6 | | | | | 160 | |
| | | | L | 〃 | 22 | 27.1 | | | | | | |
| | | | $M_E$ | 〃 | 22 | 58.7 | 1.3 | − 4 | | | | |
| | | | $M_N$ | 〃 | 23 | 01.4 | 1.3 | | + 3 | | | |
| | | | F | 〃 | 24 | 30.0 | | | | | | |
| 182 | Sept. 11 | Iv | e.p | 11 | 34 | 26.8 | | | | | 249 | Valley of Ooi river, Siznoka prefecture. |
| | | | e.L | 〃 | 35 | 00.3 | | | | | | |
| | | | $M_E$ | 〃 | 35 | 12.5 | 1.1 | − 5 | | | | |
| | | | $M_N$ | 〃 | 35 | 07.4 | 1.1 | | − 5 | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude. $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M | 11 | 35 | 36.8 | 1.1 | | | + 5 | | |
| | | | F | 〃 | 36 | 50.0 | | | | | | |
| 183 | Sept. 11 | Ov | P | 16 | 48 | 30.3 | | | | | 303 | West off Sekiro Cape, Izu peninsula. |
| | | | L | 〃 | 49 | 11.1 | | | | | | |
| | | | $M_E$ | 〃 | 39 | 18.7 | 1.4 | + 3 | | | | |
| | | | $M_N$ | 〃 | 49 | 12.7 | 1.8 | | − 4 | | | |
| | | | F | 〃 | 51 | 50.0 | | | | | | |
| 184 | Sept. 17 | IVv | e.p | 10 | 56 | 10.3 | | | | | 596 | SSE off Kinkazan Island. Miyagi prefecture. |
| | | | L | 〃 | 57 | 30.5 | | | | | | |
| | | | $M_E$ | 〃 | 58 | 09.6 | 2.3 | + 6 | | | | |
| | | | $M_N$ | 〃 | 58 | 08.3 | 2.3 | | − 9 | | | |
| | | | $M_Z$ | 〃 | 57 | 58.9 | 2.4 | | | ± 3 | | |
| | | | $F_N$ | 11 | 02 | 20.0 | | | | | | |
| | | | $F_Z$ | 〃 | 00 | 50.0 | | | | | | |
| 185 | Sept. 19 | Iv | P | 8 | 00 | 30.6 | | | | | 80 | In the Bay of Yuasa, Wakayama prefecture. |
| | | | L | 〃 | 00 | 41.4 | | | | | | |
| | | | $M_E$ | 〃 | 01 | 04.7 | 1.9 | ± 11 | | | | |
| | | | $M_N$ | 〃 | 00 | 58.7 | 1.8 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 01 | 09.2 | 2.0 | | | − 8 | | |
| | | | $F_N$ | 〃 | 03 | 40.0 | | | | | | |
| | | | $F_Z$ | 〃 | 03 | 10.0 | | | | | | |
| 186 | Sept. 21 | Vr | P | 23 | 10 | 33.7 | | | | | 4218 | Himaraya district. |
| | | | S | 〃 | 16 | 33.2 | | | | | | |
| | | | L | 〃 | 21 | 50.7 | | | | | | |
| | | | $M_E$ | 〃 | 25 | 27.3 | 11.0 | + 16 | | | | |
| | | | $M_N$ | 〃 | 23 | 19.8 | 12.7 | | ± 11 | | | |
| | | | $M_Z$ | 〃 | 25 | 29.5 | 10.6 | | | + 12 | | |
| | | | $F_N$ | 〃 | 46 | 30.0 | | | | | | |
| | | | $F_Z$ | 〃 | 44 | 50.0 | | | | | | |
| 187 | Sept. 22 | Vr | P | 14 | 26 | 35.1 | | | | | 4008 | Himaraya district. |
| | | | S | 〃 | 32 | 22.6 | | | | | | |
| | | | F | 〃 | 51 | 10.0 | | | | | | |
| 188 | Sept. 24 | Vr | P | 12 | 12 | 37.2 | | | | | 3173 | Mindanao Philippine Ils. |
| | | | L | 〃 | 17 | 32.3 | | | | | | |
| | | | $M_E$ | 〃 | 20 | 24.7 | 3.7 | ± 3 | | | | |
| | | | F | 〃 | 42 | 0.0 | | | | | | |
| 189 | Sept. 26 | IIv | P | 19 | 56 | 31.0 | | | | | 343 | Off the mouth of the Hime-kawa, Etigo province. |
| | | | L | 〃 | 57 | 17.3 | | | | | | |

47 International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude. $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 19 | 58 | 34.6 | 3.0 | + 42 | | | | |
| | | | $M_N$ | 〃 | 58 | 08.3 | 3.0 | | − 57 | | | |
| | | | $M_Z$ | 〃 | 58 | 17.4 | 2.3 | | | − 13 | | |
| | | | F | 20 | 06 | 30.0 | | | | | | |
| 190 | Sept. 28 | Ⅲv | P | 9 | 52 | 38.0 | | | | | 328 | SSE off the Osima, Izu. |
| | | | L | 〃 | 53 | 22.1 | | | | | | |
| | | | $M_E$ | 〃 | 53 | 46.2 | 1.5 | + 8 | | | | |
| | | | $M_N$ | 〃 | 53 | 59.0 | 2.7 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 53 | 46.4 | 1.8 | | | − 6 | | |
| | | | $F_E$ | 〃 | 57 | 40.0 | | | | | | |
| | | | $F_Z$ | 〃 | 57 | 20.0 | | | | | | |
| 191 | Sept. 29 | Ⅲv | P | 4 | 53 | 44.9 | | | | | 645 | Near Kagosima City. |
| | | | L | 〃 | 55 | 11.8 | | | | | | |
| | | | $M_E$ | 〃 | 56 | 06.5 | 2.4 | + 13 | | | | |
| | | | $M_N$ | 〃 | 55 | 35.6 | 2.4 | | + 14 | | | |
| | | | $M_Z$ | 〃 | 55 | 48.6 | 2.4 | | | + 6 | | |
| | | | $F_N$ | 〃 | 95 | 20.0 | | | | | | |
| | | | $F_Z$ | 〃 | 58 | 50.0 | | | | | | |
| 192 | Sept. 29 | Ia | **P** | **14** | **38** | **27.2** | | | | | **16** | **Near Osaka, Felt sligtly.** |
| | | | L | 〃 | 38 | 29.4 | | | | | | |
| | | | $M_E$ | 〃 | 38 | 29.4 | 0.3 | − 6 | | | | |
| | | | $M_N$ | 〃 | 38 | 29.4 | 0.3 | | ± 12 | | | |
| | | | $M_Z$ | 〃 | 38 | 29.4 | 0.3 | | | − 3 | | |
| | | | $F_E$ | 〃 | 40 | 10.0 | | | | | | |
| | | | $F_Z$ | 〃 | 40 | 0.0 | | | | | | |
| 193 | Sept. 30 | Ⅱv | P | 4 | 56 | 33.3 | | | | | 472 | Near lake, Kasumigaura-nisiura. |
| | | | L | 〃 | 57 | 36.8 | | | | | | |
| | | | $M_E$ | 〃 | 58 | 08.8 | 3.0 | + 8 | | | | |
| | | | $M_N$ | 〃 | 57 | 50.8 | 2.7 | | + 11 | | | |
| | | | $M_Z$ | 〃 | 57 | 52.4 | 2.4 | | | ± 3 | | |
| | | | F | 〃 | 59 | 30.0 | | | | | | |
| 194 | Sept. 30 | Vr | P | 21 | 28 | 15.7 | | | | | 4283 | In the south sea. |
| | | | L | 〃 | 34 | 18.9 | | | | | | |
| | | | $M_E$ | 〃 | 37 | 26.0 | 5.6 | + 11 | | | | |
| | | | $M_N$ | 〃 | 37 | 27.8 | 5.1 | | + 11 | | | |
| | | | F | 〃 | 49 | 30.0 | | | | | | |

International Seismological Centre

# 顯著地震概況

## Special Earthquakes.

### 七月三日印度「アツサム」の地震

此地震は印度「アツサム」地方に發したる烈震にして二三の建築物は倒潰し負傷者多數あり電線切斷して通信杜絶し東部「ベンガル」鐵道に於ては鐵橋及び線路に破壞されたる所ありたり

各地に於て觀測したる發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P-S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S-L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| （印度支那） | 時 分 秒 | 分 秒 | 分 秒 | 粁 | （獨逸） | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 海防 | 6 07 24 | 2 56 | — | 1700 | スタツトガルト | 6 14 23 | 8 32 | 14 05 | 7200 |
| （支那上海） | | | | | （瑞西） | | | | |
| ジガウエー | 〃 09 29 | 5 15 | — | 3667 | チューリヒ | 〃 14 27 | 8 46 | — | 7330 |
| 臺北 | 〃 09 38 | 4 46 | 4 56 | 3040 | （佛國） | | | | |
| （比律賓） | | | | | ストラスブルグ | 〃 14 29 | 8 53 | — | 7470 |
| マニラ | 〃 09 46 | 5 16 | — | 3680 | （佛國） | | | | |
| （ジヤワ島） | | | P—L | | プライサンス | 〃 14 30 | 8 42 | — | 7250 |
| バタビヤ | 〃 10 41 | — | 14 19 | — | （伊太利） | | | | |
| 福岡 | 〃 10 42 | 5 34 | 4 09 | 3775 | ナポリ | 〃 14 31 | 8 33 | — | 7080 |
| 大阪 | 〃 11 15 | 6 13 | 8 02 | 4452 | （瑞西） | | | | |
| 名古屋 | 〃 11 27 | 7 07 | 5 11 | 5450 | ニューシヤテル | 〃 14 34 | 8 48 | — | 7360 |
| 長野 | 〃 11 35 | 6 14 | 6 53 | 5865 | （和蘭） | | | | |
| 盛岡 | 〃 11 54 | 10 01 | — | 8810 | デビルト | 〃 14 37 | 8 51 | — | 7420 |
| 水澤 | 〃 11 57 | 6 29 | 5 44 | 4755 | （白耳義） | | | | |
| （シリヤ） | | | | | ウツクル | 〃 14 40 | 8 56 | 10 24 | 7530 |
| クサラ | 〃 12 10 | 6 54 | — | 5220 | （佛國） | | | | |
| （埃及） | | | | | パークサンマール | 〃 14 50 | 9 10 | 8 00 | 7800 |
| カイロ | 〃 12 46 | 7 22 | — | 5740 | （英國） | | | | |
| （ユーゴースラビヤ） | | | | | キユー | 〃 14 58 | 9 09 | 8 53 | 7780 |
| ザグレブ | 〃 13 56 | 8 18 | — | 6780 | （葡萄牙） | | | | |
| （丁抹） | | | | | コインブラ | 〃 15 01 | 9 46 | — | 8528 |
| コペンハーゲン | 〃 14 04 | 8 26 | — | 6950 | （アルジエリア） | | | | |
| （マダガスカル島） | | | | | アルジエー | 〃 15 10 | 9 21 | — | 8020 |
| タナナリボ | 〃 14 06 | 8 03 | — | 6500 | （西班牙） | | | | |
| （伊太利） | | | | | トルトサ | 〃 15 13 | 9 26 | — | 8120 |
| カタニヤ | 〃 14 12 | 8 31 | — | 7040 | （西班牙） | | | | |
| （伊太利） | | | | | グラナダ | 〃 15 39 | 9 44 | 19 37 | 8470 |
| トレンタ | 〃 14 15 | 8 30 | — | 7020 | （西班牙） | | | | |
| （伊太利） | | | | | トレド | 〃 15 41 | 9 43 | — | 8460 |
| ロツカデイパパ | 〃 14 17 | 8 32 | — | 7050 | （西班） | | | | |
| （伊太利） | | | | | サンフエルナンド | 〃 16 04 | 9 56 | — | 8720 |
| フロレンス | 〃 14 17 | 8 43 | — | 7270 | （濠洲） | | | | |
| （伊太利） | | | | | シドニー | 〃 16 06 | 10 16 | 14 02 | 9100 |
| パドー | 〃 14 19 | 8 37 | — | 7150 | （カナダ） | | | P—L | |
| | | | | | オツタワ | 〃 18 03 | — | 30 57 | 12450 |
| | | | | | （北米） | | | | |
| | | | | | フオールドハム | 〃 21 16 | 10 50 | 21 14 | 10850 |
| | | | | | （北米） | | | | |
| | | | | | タクソン | 〃 22 50 | 10 57 | — | 9970 |
| | | | | | （南米） | | | | |
| | | | | | ラパズ | 〃 23 43 | — | — | 17650 |

### 七月二十三日擇捉島南東沖の地震

此地震は擇捉島の南東沖に發したる强震にして有感區域は北海道東部より東北地方及び關東地方の太平洋岸に亘り被害は無かりしも稀に見る廣汎なる震域を現せり

International Seismological Centre

各地にて觀測せる發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 根室 | 4 26 24 | 0 21 | — | 158 | (英國) ストニーハースト | 4 37 45 | 9 43 | — | 8290 |
| 釧路 | 〃 26 37 | 0 29 | — | 212 | (英國) キュー | 〃 37 50 | 9 57 | 13 13 | 8730 |
| 帶廣 | 〃 26 46 | 0 52 | — | 385 | (獨逸) スタツトガルト | 〃 37 50 | 9 50 | 18 20 | 8650 |
| 大泊 | 〃 26 53 | 0 43 | — | 316 | (ユーゴースラビヤ) ザグレブ | 〃 37 52 | 9 58 | — | 8650 |
| 旭川 | 〃 26 56 | 0 45 | — | 336 | (佛國) ストラスブルグ | 〃 37 54 | 9 57 | — | 8850 |
| 札幌 | 〃 27 05 | 0 53 | — | 394 | (瑞西) チューリヒ | 〃 37 58 | 10 02 | — | 8840 |
| 室蘭 | 〃 27 11 | 0 57 | — | 423 | (伊太利) パドー | 〃 37 59 | 10 04 | — | 8870 |
| 函館 | 〃 27 17 | 1 02 | — | 460 | (佛國) パークサンマール | 〃 37 59 | 10 04 | 5 57 | 8870 |
| 水澤 | 〃 27 35 | 1 14 | — | 549 | (北米) セントルイス | 〃 38 00 | 10 02 | — | 8840 |
| 秋田 | 〃 27 39 | 1 17 | — | 569 | (カナダ) オツタワ | 〃 38 00 | 10 03 | 14 57 | 8850 |
| 東京 | 〃 28 22 | 1 51 | — | 824 | (瑞西) ニューシヤテル | 〃 38 01 | 10 03 | — | 8850 |
| 前橋 | 〃 28 43 | 1 56 | — | 860 | (北米) バツフアロ | 〃 38 08 | — | — | 8910 |
| 名古屋 | 〃 28 46 | 2 10 | 0 08 | 1220 | (伊太利) フロレンス | 〃 38 10 | 10 20 | — | 9200 |
| 大阪 | 〃 28 57 | 2 57 | — | 1705 | (伊太利) ローマ | 〃 38 13 | 10 17 | — | 9130 |
| 福岡 | 〃 29 50 | 3 15 | — | 1910 | (伊太利) ロツカデイパパ | 〃 38 14 | 10 16 | — | 9110 |
| 長崎 | 〃 29 59 | 3 26 | — | 2030 | (北米) フオールドハム | 〃 38 24 | 10 21 | 16 33 | 9056 |
| (支那上海) ジガウエー | 〃 31 00 | 4 14 | — | 2733 | (伊太利) ナポリ | 〃 38 25 | 10 15 | — | 9090 |
| 臺北 | 〃 31 39 | 4 56 | — | 3195 | (北米) ジョージトン | 〃 38 29 | — | — | 9320 |
| (比律賓) マニラ | 〃 33 29 | 5 07 | — | 3540 | (西班牙) トルトサ | 〃 38 37 | 10 25 | — | 9300 |
| (ジヤワ島) バタビヤ | 〃 35 38 | 8 44 | — | 7140 | (西班牙) グラナダ | 〃 39 00 | 11 08 | 24 22 | 10220 |
| (和蘭) デビルト | 〃 37 41 | 9 45 | — | 8490 | | | | | |

## 七月二十三日伊太利南部の地震

此地震は伊太利南部に發したる烈震にして震災區域は中部伊太利の一部より南部伊太利の全部北は「ローマ」より南は「シシリー」島の「カタニア」を兩端とし「カムパニア」縣に及び死者千八百八十三名負傷者四千二百六十四名、全潰及び半潰家屋凡そ五千に及び「ビラノバ、デル、バチスカ」にては町內家屋殆ど倒潰し住民の八九割は死傷し「モンテカルロ、イルキノ」にては町內の半は家屋破壞されたり

各地に於て觀測せる發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| (伊太利) | 時 分 秒 | 分 秒 | 分 秒 | 粁 | (伊太利) | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| フロレンス | 9 08 46 | — | — | 450 | パレデイポンペイ | 〃 08 51 | — | — | — |
| (伊太利) パリ | 〃 08 47 | 0 49 | — | 440 | (伊太利) ナポリ | 〃 08 58 | — | — | — |

International Seismological Centre

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | P—L | |
| (伊太利) タレンテ | 9 09 05 | — | — | 200 | (白耳義) ウツクル | 9 11 36 | — | 3 24 | 1460 |
| (伊太利) トレンタ | 〃 09 10 | — | — | — | (和蘭) デビルト | 〃 11 49 | 2 32 | — | 1450 |
| (伊太利) ロツカデイパパ | 〃 09 15 | — | — | — | (英國) キユー | 〃 12 11 | 2 56 | 1 41 | 1700 |
| (伊太利) ローマ | 〃 09 20 | 0 40 | -- | — | (西班牙) グラナダ | 〃 12 18 | 3 01 | 0 41 | 1720 |
| (伊太利) カタニヤ | 〃 09 34 | 0 38 | — | 340 | (埃及) カイロ | 〃 12 32 | 3 30 | — | 2080 |
| (ユーゴースラビヤ) ザグレブ | 〃 09 52 | 1 22 | — | 660 | (西班牙) サンフエルナンド | 〃 12 45 | 3 20 | — | 1970 |
| ベルグラード | 〃 09 54 | 1 13 | — | 660 | (シリア) クサラ | 〃 12 48 | 3 27 | — | 2030 |
| (アフリカ北部) チユニス | 〃 09 55 | 1 28 | — | 810 | (英國) ストニーハースト | 〃 12 49 | 3 21 | — | 2000 |
| (佛國) プライサンス | 〃 10 08 | 1 28 | — | 810 | (英國) デース | 〃 13 06 | 3 39 | — | 2190 |
| (瑞西) チユーリヒ | 〃 10 44 | 1 25 | — | 860 | (北米) フオールドハム | 〃 19 09 | 8 40 | 11 53 | 7270 |
| (佛國) ストラスブルグ | 〃 10 36 | 2 06 | — | 1020 | (北米) バツフアロ | 〃 19 31 | — | — | 7215 |
| (西班牙) バルセロナ | 〃 11 02 | 2 03 | — | 1150 | (北米) ジヨージトン | 〃 19 43 | 8 45 | -- | 7310 |
| (アルジエリア) アルジエー | 〃 11 08 | 2 05 | — | 1170 | (ジヤワ島) バタビヤ | 〃 22 31 | 11 01 | — | 10280 |
| (西班牙) トルトサ | 〃 11 22 | 2 16 | — | 1280 | 大阪 | 〃 31 33 | 10 16 | 10 52 | 9112 |

## 九月二十二日「ヒマラヤ」地方の地震

此地震は「ヒマラヤ」地方に發したる强震にして微動は遠く我日本及び南米「ボリビヤ」等に達したり

各地にて觀測したる發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| (印度支那) | 時 分 秒 | 分 秒 | 分 秒 | 粁 | (和蘭) | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 海防 | 8 06 21 | 5 06 | — | 1140 | デビルト | 8 15 39 | 9 24 | — | 8080 |
| (支那上海) ジガウエー | 〃 08 55 | 3 54 | 2 48 | 2456 | (瑞西) ニューシヤテル | 〃 15 42 | 9 26 | — | 8110 |
| (比律賓) マニラ | 〃 09 31 | 4 06 | 2 35 | 2620 | (白耳義) ウツクル | 〃 15 44 | 9 27 | 13 49 | 8150 |
| 大阪 | 〃 10 34 | 6 00 | 5 18 | 4218 | (佛國) パークサンマール | 〃 15 56 | 9 34 | 8 30 | 8290 |
| (シリア) クサラ | 〃 13 35 | 7 57 | — | 6380 | (伊太利) パドー | 〃 16 00 | 9 23 | — | 8100 |
| (ユーゴースラビヤ) ベルグラード | 〃 14 42 | 8 43 | — | 7200 | (英國) キユー | 〃 16 01 | 9 39 | 13 20 | 8380 |
| (佛國) プライサンス | 〃 15 20 | 10 38 | — | 9560 | (英國) ストニーハースト | 〃 16 06 | 9 43 | — | 8470 |
| (伊太利) カタニヤ | 〃 15 20 | 8 40 | — | 7200 | (西班牙) グラナダ | 〃 16 40 | 10 27 | — | 9340 |
| (獨逸) スタツトガルト | 〃 15 31 | 9 09 | 16 20 | 7700 | (南米) ラパズ | 〃 16 45 | 10 20 | 20 55 | 9200 |
| (瑞西) チユーリヒ | 〃 15 35 | 9 25 | — | 8090 | (濠洲) シドニー | 〃 24 24 | — | P—L 55 36 | — |
| (佛國) ストラスブルグ | 〃 15 37 | 9 24 | — | 8090 | | 〃 26 11 | — | 16 05 | — |

International Seismological Centre

# 九月二十二日「ヒマラヤ」地方の地震

此地震も「ヒマラヤ」地方に發したる强震にして微動は遠く我日本及び南米「ホリビヤ」等に達したり

各地にて觀測したる發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| （印度支那）海防 | 23 22 06 | 2 42 | — | 1550 | （佛國）ストラスブルグ | 23 30 17 | 9 00 | — | 7600 |
| （支那上海）ジガウエー | 〃 24 30 | 4 30 | — | 2978 | （瑞西）ニューシヤテル | 〃 30 20 | 9 09 | — | 7800 |
| 臺北 | 〃 24 36 | 4 46 | 3 52 | 4100 | （白耳義）ウツクル | 〃 30 25 | 9 10 | 13 25 | 7800 |
| 大阪 | 〃 26 35 | 5 48 | — | 4015 | （佛國）パークサンマール | 〃 30 36 | 9 19 | 4 05 | 8000 |
| 長野 | 〃 26 40 | 5 56 | — | 4155 | （西班牙）パルセロナ | 〃 31 01 | 10 26 | — | 9310 |
| （伊太利）パドー | 〃 30 04 | 8 21 | — | 6800 | （西班牙）トレド | 〃 31 18 | 10 25 | — | 9220 |
| （獨逸）スタツトガルト | 〃 30 08 | 8 58 | 14 24 | 7500 | （西班牙）グラナダ | 〃 31 22 | 10 33 | 19 33 | 9460 |
| （佛國）プライサンス | 〃 30 12 | 9 04 | — | 7690 | （南米）ラパズ | 〃 39 30 | — | P—L 59 30 | — |

International Seismological Centre

# 大阪測候所地震觀測表

# Seismological Bulletin

## of the Meteorological Observatory of Osaka, Japan.

北緯三十四度三十九分二秒　東經百三十五度三十二分九秒　高さ三米四

$\varphi = 34^{0}39'\ 2''$ N.　$\lambda = 135^{0}32'9''$ E.　H=3.4m.

下層土

Sub-soil : 砂質壤土(第四期古層)

Sandy Loam(Oldquaternary)

| 地震計 Instruments | | 倍率 Vo | 固有週期 To | 摩擦係數 $\frac{r}{To^2}$ | 制振度 ε | 質量 (mass) |
|---|---|---|---|---|---|---|
| | | 倍 | 秒 | | | 瓲 |
| Ormori Horizontal Pendulum trcmometer. 大森式地動計 | Ncomp. | 20 | 30 | 0.003 | — | 17.000 |
| | Ecomp. | 20 | 30 | 0.003 | — | 17.000 |
| Omori Vertical-motion seismograph. 大森式上下微動計 | Zcomp. | 20 | 15 | 0.004 | — | 4.119 |
| Omori Horizontal Pendulum tromo meter. 大森式微動計 | Ncomp. | 120 | 15 | 0.005 | — | 63.000 |
| Omori Portable seismometer. 大森式簡單微動計 | Ncomp. | 60 | 4 | 0.092 | — | 12.800 |
| | Ecomp. | 60 | 4 | 0.092 | — | 12.800 |
| Omori Strong-motion Seismograph. 大森式強震計 | Ncomp. | 1 | 5 | 0.003 | — | 1.680 |
| | Ecomp. | 1 | 5 | 0.003 | — | 1.680 |
| | Zcomp. | 2 | 5 | 0.003 | — | 0.890 |
| Imamura Strong-motion Seismograph. 今村式強震計 | Ncomp. | 2 | 8 | 0.024 | 2.0 | 2.000 |
| | Ecomp. | 2 | 8 | 0.024 | 2.0 | 2.050 |
| | Zcomp. | 2 | 3 | 0.032 | 4.0 | 0.380 |
| Omori. Clinometer 大森式傾斜計 | Ncomp. | 15 | 15 | 0.003 | — | 6.200 |
| | Ecomp. | 15 | 15 | 0.003 | — | 6.200 |
| Wiecherts Horizontal Seismograph. ヴキヘルト水平動 | Ncomp. | 80 | 5 | 0.023 | 3.7 | 200.000 |
| | Ecomp. | 80 | 4 | 0.023 | 3.7 | 200.000 |
| Wiecherts Vertical Seismograph. ヴキヘルト上下動 | Zcomp. | 80 | 6 | 0.014 | 3.5 | 80.000 |

International Seismological Centre

# 大阪測候所地震観測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 195 | Oct. 1 | Ⅳr | P | 2 | 57 | 53.6 | | | | | 2647 | Near Manila. Philippine Islands. |
| | | | L | 3 | 02 | 10.3 | | | | | | |
| | | | $M_E$ | 〃 | 02 | 51.7 | 4.6 | + 6 | | | | |
| | | | $M_N$ | 〃 | 03 | 20.3 | 3.8 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 02 | 26.0 | 3.9 | | | + 5 | | |
| | | | F | 〃 | 09 | 0.0 | | | | | | |
| 196 | Oct. 2 | Ⅳr | P | 10 | 03 | 38.5 | | | | | 1282 | West off Erimo Cape, Hokkaido. |
| | | | L | 〃 | 05 | 54.7 | | | | | | |
| | | | $M_E$ | 〃 | 06 | 43.2 | 3.7 | − 13 | | | | |
| | | | $M_N$ | 〃 | 07 | 43.7 | 3.3 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 06 | 41.7 | 2.6 | | | + 6 | | |
| | | | F | 〃 | 14 | 40.0 | | | | | | |
| 197 | Oct. 6 | Ⅰv | P | 20 | 52 | 24.8 | | | | | 320 | Northern part of Bungo Channel |
| | | | L | 〃 | 53 | 7.9 | | | | | | |
| | | | $M_E$ | 〃 | 53 | 21.5 | 0.9 | − 3 | | | | |
| | | | $M_N$ | 〃 | 53 | 26.1 | 0.9 | | + 1 | | | |
| | | | F | 〃 | 55 | 0.0 | | | | | | |
| 198 | Oct. 7 | Ⅰv | P | 1 | 29 | 23.7 | | | | | 72 | Lower basin of the Arida river, Wakayama prefecture. |
| | | | L | 〃 | 29 | 33.4 | | | | | | |
| | | | $M_E$ | 〃 | 29 | 33.4 | 0.3 | + 4 | | | | |
| | | | $M_N$ | 〃 | 29 | 33.4 | 0.3 | | + 3 | | | |
| | | | F | 〃 | 32 | 0.0 | | | | | | |
| 199 | Oct. 8 | Ⅳr | P | 10 | 29 | 4.9 | | | | | 2445 | East off Guam Island. |
| | | | S | 〃 | 33 | 5.4 | | | | | | |
| | | | L | 〃 | 35 | 53.7 | | | | | | |
| | | | $M_E$ | 〃 | 39 | 23.7 | 5.6 | + 6 | | | | |
| | | | $M_N$ | 〃 | 39 | 12.5 | 5.2 | | + 5 | | | |
| | | | F | 11 | 01 | 20.0 | | | | | | |
| 200 | Oct. 10 | Ⅳr | P | 0 | 45 | 16.1 | | | | | 4287 | Near Yunnan, China. |
| | | | S | 〃 | 51 | 19.6 | | | | | | |
| | | | L | 〃 | 55 | 16.2 | | | | | | |
| | | | $M_E$ | 11 | 56 | 23.6 | 4.6 | + 5 | | | | |
| | | | F | 1 | 03 | 40.0 | | | | | | |
| 201 | Oct. 12 | Ⅰv | P | 8 | 59 | 9.9 | | | | | 484 | Near lake Kasumigaura Nisiura. |
| | | | L | 9 | 00 | 15.1 | | | | | | |
| | | | $M_E$ | 〃 | 00 | 54.0 | 2.2 | − 9 | | | | |
| | | | $M_N$ | 〃 | 00 | 35.5 | 2.8 | | + 16 | | | |
| | | | $M_Z$ | 〃 | 00 | 44.4 | 2.0 | | | − 8 | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude, $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | F | 9 | 04 | 0.0 | | | | | | |
| 202 | Oct. 15 | I v | P | 21 | 19 | 43.8 | | | | | 487 | In the sea of Kasima |
| | | | L | 〃 | 20 | 49.5 | | | | | | |
| | | | $M_E$ | 〃 | 21 | 2.0 | 2.6 | ± 3 | | | | |
| | | | $M_N$ | 〃 | 21 | 9.8 | 2.4 | | + 5 | | | |
| | | | $M_Z$ | 〃 | 20 | 59.1 | 1.9 | | | + 1 | | |
| | | | F | 〃 | 23 | 30.0 | | | | | | |
| 203 | Oct. 16 | V v | **P** | **21** | **32** | **52.4** | | | | | **186** | **Near Daisyoji-cho, Isikawa prefecture.** |
| | | | L | 〃 | 33 | 17.4 | | | | | | |
| | | | $M_E$ | 〃 | 34 | 21.0 | 2.3 | −137 | | | | |
| | | | $M_N$ | 〃 | 34 | 4.9 | 2.6 | | −144 | | | |
| | | | $M_Z$ | 〃 | 33 | 59.2 | 2.1 | | | + 50 | | |
| 204 | Oct. 16 | V v | **P** | **21** | **36** | **27.1** | | | | | **191** | ditto |
| | | | L | 〃 | 36 | 52.8 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 55.9 | 2.3 | +530 | | | | |
| | | | $M_N$ | 〃 | 36 | 57.9 | 2.3 | | +530 | | | |
| | | | $M_Z$ | 〃 | 37 | 7.8 | 2.2 | | | −400 | | |
| | | | F | 〃 | 59 | 20.0 | | | | | | |
| 205 | Oct. 18 | I v | ep | 4 | 23 | 31.8 | | | | | — | ditto |
| | | | L | 〃 | 23 | 56.6 | | | | | | |
| | | | $M_E$ | 〃 | 24 | 27.7 | 1.9 | + 19 | | | | |
| | | | $M_N$ | 〃 | 24 | 25.1 | 1.9 | | − 19 | | | |
| | | | $M_Z$ | 〃 | 24 | 38.4 | 1.8 | | | + 6 | | |
| | | | F | 〃 | 30 | 0.0 | | | | | | |
| 206 | Oct. 20 | I v | P | 2 | 08 | 10.9 | | | | | 186 | ditto |
| | | | L | 〃 | 08 | 35.9 | | | | | | |
| | | | $M_E$ | 〃 | 09 | 5.8 | 1.8 | − 8 | | | | |
| | | | $M_N$ | 〃 | 09 | 7.5 | 1.6 | | ± 8 | | | |
| | | | F | 〃 | 12 | 30.0 | | | | | | |
| 207 | Oct. 21 | III v | P | 5 | 26 | 3.0 | | | | | 337 | In the sea of Iyo. |
| | | | L | 〃 | 26 | 48.4 | | | | | | |
| | | | $M_E$ | 〃 | 27 | 31.1 | 2.3 | + 19 | | | | |
| | | | $M_N$ | 〃 | 27 | 23.3 | 2.9 | | − 25 | | | |
| | | | $M_Z$ | 〃 | 27 | 54.3 | 2.1 | | | + 6 | | |
| | | | F | 〃 | 30 | 30.0 | | | | | | |
| 208 | Oct. 24 | V r | P | 20 | 19 | 31.1 | | | | | 2102 | In the Marianne Deep. |
| | | | L | 〃 | 23 | 3.3 | | | | | | |
| | | | $M_E$ | 〃 | 23 | 21.4 | 5.0 | +275 | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 20 | 23 | 23.4 | 4.9 | | +275 | | | |
| | | | $M_Z$ | 〃 | 23 | 23.0 | 4.9 | | | −239 | | |
| | | | F | 21 | 58 | 10.0 | | | | | | |
| 209 | Oct. 24 | V v | P | 22 | 22 | 47.6 | | | | | 458 | Lower Basin of the Kinu river. |
| | | | L | 〃 | 23 | 49.2 | | | | | | |
| | | | $M_E$ | 〃 | 24 | 10.4 | 2.4 | + 13 | | | | |
| | | | $M_N$ | 〃 | 24 | 15.6 | 2.3 | | + 25 | | | |
| | | | $M_Z$ | 〃 | 24 | 13.2 | 2.1 | | | + 6 | | |
| | | | F | 〃 | 27 | 50.0 | | | | | | |
| 210 | Oct. 26 | I v | P | 13 | 45 | 16.7 | | | | | 75 | Lower Basin of the Arida river, Wakayama prefecture. |
| | | | L | 〃 | 45 | 26.8 | | | | | | |
| | | | $M_E$ | 〃 | 45 | 51.5 | 1.9 | + 25 | | | | |
| | | | $M_N$ | 〃 | 45 | 52 7 | 2.0 | | + 44 | | | |
| | | | $M_Z$ | 〃 | 46 | 8.7 | 1.8 | | | + 13 | | |
| | | | F | 〃 | 48 | 30.0 | | | | | | |
| 211 | Oct. 28 | II r | P | 21 | 14 | 39.7 | | | | | 1976 | In the Marianne Deep. |
| | | | L | 〃 | 18 | 0.3 | | | | | | |
| | | | $M_E$ | 〃 | 19 | 56.4 | 4.1 | + 38 | | | | |
| | | | $M_N$ | 〃 | 20 | 3.5 | 3.8 | | − 25 | | | |
| | | | $M_Z$ | 〃 | 19 | 56.4 | 4.5 | | | − 16 | | |
| | | | F | 〃 | 44 | 0.0 | | | | | | |
| 212 | Oct. 29 | I v | P | 14 | 27 | 27.6 | | | | | 59 | In the Bay of Wakaura, Wakayama prefecture. |
| | | | L | 〃 | 27 | 35.6 | | | | | | |
| | | | $M_E$ | 〃 | 28 | 5.0 | 1.9 | − 13 | | | | |
| | | | $M_N$ | 〃 | 28 | 9.8 | 1.4 | | − 13 | | | |
| | | | $M_Z$ | 〃 | 23 | 7.2 | 1.1 | | | + 6 | | |
| | | | F | 〃 | 30 | 40.0 | | | | | | |
| 213 | Nov. 8 | V r | ep | 3 | 28 | 13.8 | | | | | 3163 | In south sea. |
| | | | S | 〃 | 33 | 08.3 | | | | | | |
| | | | L | 〃 | 37 | 42.0 | | | | | | |
| | | | $M_E$ | 〃 | 37 | 44.0 | 4.3 | − 13 | | | | |
| | | | $M_N$ | 〃 | 38 | 03.6 | 3.6 | | ± 14 | | | |
| | | | $M_Z$ | 〃 | 37 | 48.1 | 4.3 | | | − 6 | | |
| | | | F | 〃 | 48 | 0.0 | | | | | | |
| 214 | Nov. 8 | I v | P | 4 | 02 | 09.4 | | | | | 71 | In the Bay of Wakaura, Wakayama prefecture. |
| | | | L | 〃 | 02 | 19.0 | | | | | | |
| | | | $M_E$ | 〃 | 02 | 44.4 | 1.2 | + 15 | | | | |
| | | | $M_N$ | 〃 | 02 | 47.3 | 1.2 | | − 18 | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | F | 4 | 06 | 10.0 | | | | | | |
| 215 | Nov. 9 | Ⅲr | P | 19 | 15 | 14.0 | | | | | 3328 | In the south sea. |
| | | | S | 〃 | 20 | 20.2 | | | | | | |
| | | | L | 〃 | 23 | 34.2 | | | | | | |
| | | | $M_E$ | 〃 | 23 | 36.6 | 5.7 | ± 14 | | | | |
| | | | F | 20 | 01 | 0.0 | | | | | | |
| 216 | Nov. 10 | Ⅱv | P | 13 | 37 | 4.7 | | | | | 440 | Kasima-nada. |
| | | | L | 〃 | 38 | 4.0 | | | | | | |
| | | | $M_E$ | 〃 | 38 | 31.8 | 2.3 | + 9 | | | | |
| | | | $M_N$ | 〃 | 38 | 24.3 | 2.3 | | + 13 | | | |
| | | | $M_Z$ | 〃 | 38 | 48.5 | 2.1 | | | − 5 | | |
| | | | F | 〃 | 40 | 40.0 | | | | | | |
| 217 | Nov. 10 | Ⅲr | P | 13 | 48 | 7.2 | | | | | 3441 | In the south sea. |
| | | | S | 〃 | 53 | 20.5 | | | | | | |
| | | | L | 〃 | 57 | 7.4 | | | | | | |
| | | | $M_N$ | 14 | 09 | 42.8 | 19.4 | | + 73 | | | |
| | | | F | 〃 | 33 | 30.0 | | | | | | |
| 218 | Nov. 11 | Ⅲr | P | 8 | 33 | 36.8 | | | | | 1763 | NW. off the coast of Yonakuni Island. |
| | | | L | 〃 | 36 | 38.1 | | | | | | |
| | | | $M_E$ | 〃 | 37 | 52.0 | 5.3 | − 17 | | | | |
| | | | $M_N$ | 〃 | 37 | 22.0 | 4.2 | | + 18 | | | |
| | | | F | 〃 | 50 | 40.0 | | | | | | |
| 219 | Nov. 17 | Ⅱv | P | 15 | 16 | 25.2 | | | | | 228 | — |
| | | | L | 〃 | 16 | 55.8 | | | | | | |
| | | | $M_E$ | 〃 | 17 | 34.2 | 2.6 | + 25 | | | | |
| | | | $M_N$ | 〃 | 16 | 55.8 | 2.6 | | + 44 | | | |
| | | | $M_Z$ | 〃 | 17 | 15.8 | 2.4 | | | − 8 | | |
| | | | F | 〃 | 19 | 40.0 | | | | | | |
| 220 | Nov. 19 | Iv | P | 1 | 11 | 6.1 | | | | | 551 | Off the coast of Ona hama. |
| | | | L | 〃 | 12 | 20.4 | | | | | | |
| | | | $M_E$ | 〃 | 12 | 31.4 | 2.8 | + 11 | | | | |
| | | | $M_N$ | 〃 | 12 | 36.9 | 3.3 | | + 20 | | | |
| | | | $M_Z$ | 〃 | 12 | 59.3 | 2.8 | | | − 6 | | |
| | | | F | 〃 | 15 | 40.0 | | | | | | |
| 221 | Nov. 20 | Iv | ep | 11 | 54 | 28.8 | | | | | — | Northern part of Izu. |
| | | | L | 〃 | 55 | 03.5 | | | | | | |
| | | | $M_E$ | 〃 | 55 | 10.7 | 1.8 | − 8 | | | | |
| | | | $M_N$ | 〃 | 55 | 17.0 | 1.8 | | + 8 | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_Z$ | 11 | 55 | 48.1 | | | | | | |
| | | | F | 〃 | 57 | 30.0 | | | | | | |
| 222 | Nov. 21 | Iv | P | 9 | 50 | 29.8 | | | | | 314 | Northern part of Izu. |
| | | | L | 〃 | 51 | 12.0 | | | | | | |
| | | | $M_E$ | 〃 | 51 | 46.8 | 2.2 | + 11 | | | | |
| | | | $M_N$ | 〃 | 51 | 39.7 | 2.3 | | + 20 | | | |
| | | | $M_Z$ | 〃 | 51 | 58.1 | 2.1 | | | − 7 | | |
| | | | F | 〃 | 54 | 0.0 | | | | | | |
| 223 | Nov. 21 | Iv | P | 10 | 17 | 35.9 | | | | | 313 | 〃 |
| | | | L | 〃 | 18 | 18.0 | | | | | | |
| | | | $M_E$ | 〃 | 18 | 42.3 | 3.3 | + 8 | | | | |
| | | | $M_N$ | 〃 | 18 | 44.1 | 3.2 | | ± 30 | | | |
| | | | $M_Z$ | 〃 | 18 | 16.9 | 2.4 | | | − 8 | | |
| | | | F | 〃 | 21 | 30.0 | | | | | | |
| 224 | Nov. 21 | IIv | P | 12 | 18 | 13.8 | | | | | 302 | 〃 |
| | | | L | 〃 | 18 | 54.4 | | | | | | |
| | | | $M_E$ | 〃 | 19 | 12.1 | 2.0 | + 19 | | | | |
| | | | $M_N$ | 〃 | 19 | 16.0 | 2.3 | | − 28 | | | |
| | | | $M_Z$ | 〃 | 19 | 22.9 | 1.8 | | | + 6 | | |
| | | | F | 〃 | 22 | 10.0 | | | | | | |
| 225 | Nov. 21 | Iv | P | 12 | 56 | 23.1 | | | | | 303 | 〃 |
| | | | L | 〃 | 57 | 03.9 | | | | | | |
| | | | $M_E$ | 〃 | 57 | 27.8 | 1.8 | − 7 | | | | |
| | | | $M_N$ | 〃 | 57 | 31.4 | 1.9 | | + 13 | | | |
| | | | F | 13 | 00 | 0.0 | | | | | | |
| 226 | Nov. 24 | Iv | P | 6 | 45 | 53.6 | | | | | 62 | Lower Basin of Kino kawa river, Wakayama prefecture. |
| | | | L | 〃 | 46 | 02.0 | | | | | | |
| | | | $M_E$ | 〃 | 46 | 25.3 | 1.4 | + 13 | | | | |
| | | | $M_N$ | 〃 | 46 | 28.8 | 1.4 | | − 19 | | | |
| | | | $M_Z$ | 〃 | 46 | 08.1 | 0.6 | | | + 4 | | |
| | | | F | 〃 | 48 | 10.0 | | | | | | |
| 227 | Nov. 25 | Iv | P | 6 | 27 | 11.8 | | | | | 321 | Northern part of Izu. |
| | | | L | 〃 | 27 | 55.0 | | | | | | |
| | | | $M_E$ | 〃 | 28 | 12.8 | 1.4 | + 13 | | | | |
| | | | $M_N$ | 〃 | 28 | 24.4 | 2.1 | | + 20 | | | |
| | | | F | 〃 | 30 | 20.0 | | | | | | |
| 228 | Nov. 25 | IIv | P | 7 | 06 | 37.0 | | | | | 324 | 〃 |
| | | | L | 〃 | 07 | 20.7 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 7 | 07 | 49.0 | 1.9 | + 31 | | | | |
| | | | $M_N$ | 〃 | 07 | 52.1 | 1.8 | | + 81 | | | |
| | | | F | 〃 | 12 | 40.0 | | | | | | |
| 229 | Nov. 25 | I v | P | 7 | 51 | 0.4 | | | | | 322 | Northern part of Izu. |
| | | | L | 〃 | 51 | 43.8 | | | | | | |
| | | | $M_E$ | 〃 | 51 | 51.8 | 1.4 | + 14 | | | | |
| | | | $M_N$ | 〃 | 51 | 56.1 | 1.9 | | + 27 | | | |
| | | | F | 〃 | 54 | 20.0 | | | | | | |
| 230 | Nov. 25 | I v | ep | 9 | 35 | 4.5 | | | | | — | 〃 |
| | | | L | 〃 | 35 | 48.3 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 00.3 | 1.8 | + 6 | | | | |
| | | | $M_N$ | 〃 | 36 | 04.3 | 1.8 | | ± 8 | | | |
| | | | F | 〃 | 37 | 40.0 | | | | | | |
| 231 | Nov. 25 | I v | P | 12 | 14 | 16.2 | | | | | 317 | 〃 |
| | | | L | 〃 | 14 | 58.9 | | | | | | |
| | | | $M_E$ | 〃 | 15 | 07.7 | 2.1 | − 5 | | | | |
| | | | $M_N$ | 〃 | 15 | 41.6 | 2.3 | | + 6 | | | |
| | | | F | 〃 | 16 | 20.0 | | | | | | |
| 232 | Nov. 25 | I v | P | 14 | 23 | 58.8 | | | | | 325 | 〃 |
| | | | L | 〃 | 24 | 42.6 | | | | | | |
| | | | $M_E$ | 〃 | 24 | 50.3 | 2.1 | + 11 | | | | |
| | | | $M_N$ | 〃 | 25 | 11.2 | 1.9 | | + 21 | | | |
| | | | F | 〃 | 27 | 10.0 | | | | | | |
| 233 | Nov. 25 | V v | **P** | **19** | **03** | **33.7** | | | | | **346** | 〃 |
| | | | L | 〃 | 04 | 20.3 | | | | | | |
| | | | $M_E$ | 〃 | 06 | 02.0 | 6.1 | +13550 | | | | |
| | | | $M_N$ | 〃 | 04 | 48.6 | 7.6 | | +30380 | | | |
| | | | $M_Z$ | 〃 | 05 | 37.5 | 2.7 | | | +9250 | | |
| | | | F | 〃 | 14 | 10.0 | | | | | | |
| 234 | Nov. 25 | I v | ep | 19 | 29 | 51.8 | | | | | — | 〃 |
| | | | L | 〃 | 30 | 29.0 | | | | | | |
| | | | $M_E$ | 〃 | 31 | 02.4 | 2.3 | − 19 | | | | |
| | | | $M_N$ | 〃 | 31 | 03.5 | 2.4 | | − 27 | | | |
| 235 | Nov. 25 | I v | P | 19 | 47 | 04.1 | | | | | 311 | 〃 |
| | | | L | 〃 | 47 | 46.0 | | | | | | |
| | | | $M_E$ | 〃 | 48 | 52.3 | 2.3 | ± 8 | | | | |
| | | | $M_N$ | 〃 | 48 | 25.8 | 2.7 | | − 13 | | | |
| | | | F | 〃 | 51 | 0.0 | | | | | | |

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude. $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 236 | Nov. 26 | I v | P | 1 | 07 | 20.1 | | | | | 314 | Northern part of Izu. |
| | | | L | 〃 | 08 | 2.3 | | | | | | |
| | | | $M_E$ | 〃 | 08 | 29.3 | 2.5 | + 14 | | | | |
| | | | $M_N$ | 〃 | 08 | 48.6 | 2.9 | | − 20 | | | |
| | | | $M_Z$ | 〃 | 08 | 22.4 | 2.1 | | | + 4 | | |
| | | | F | 〃 | 13 | 30.0 | | | | | | |
| 237 | Nov. 26 | I v | P | 4 | 52 | 59.6 | | | | | 317 | 〃 |
| | | | L | 〃 | 53 | 42.2 | | | | | | |
| | | | $M_E$ | 〃 | 54 | 17.8 | 2.8 | + 13 | | | | |
| | | | $M_N$ | 〃 | 53 | 59.2 | 3.1 | | − 19 | | | |
| | | | $M_Z$ | 〃 | 54 | 1.3 | 2.0 | | | − 4 | | |
| | | | F | 〃 | 59 | 30.0 | | | | | | |
| 238 | Nov. 26 | I v | P | 8 | 43 | 19.0 | | | | | 325 | 〃 |
| | | | L | 〃 | 44 | 2.8 | | | | | | |
| | | | $M_E$ | 〃 | 44 | 47.1 | 3.4 | − 11 | | | | |
| | | | $M_N$ | 〃 | 44 | 26.1 | 3.0 | | − 35 | | | |
| | | | $M_Z$ | 〃 | 44 | 25.1 | 1.7 | | | + 2 | | |
| | | | F | 〃 | 49 | 0.0 | | | | | | |
| 239 | Nov. 26 | I v | ep | 12 | 42 | 33.7 | | | | | — | 〃 |
| | | | L | 〃 | 43 | 10.3 | | | | | | |
| | | | $M_E$ | 〃 | 43 | 34.7 | 2.8 | ± 3 | | | | |
| | | | $M_N$ | 〃 | 43 | 43.0 | 2.5 | | ± 6 | | | |
| | | | F | 〃 | 45 | 50.0 | | | | | | |
| 240 | Dec. 2 | IV r | P | 7 | 13 | 48.4 | | | | | | |
| | | | L | 〃 | 16 | 50.2 | | | | | | Yunnan districts, China. |
| | | | $M_E$ | 〃 | 20 | 35.8 | 17.5 | | + 75 | | | |
| | | | $M_N$ | 〃 | 21 | 58.0 | 6.9 | | | − 8 | | |
| | | | F | 〃 | 42 | 30.0 | | | | | | |
| 241 | Dec. 3 | IV r | P | 18 | 59 | 19.0 | | | | | 4157 | Burma. |
| | | | S | 19 | 05 | 15.1 | | | | | | |
| | | | L | 〃 | 09 | 54.0 | | | | | | |
| | | | $M_E$ | 〃 | 14 | 45.0 | 12.4 | + 88 | | | | |
| | | | $M_N$ | 〃 | 13 | 35.9 | 10.6 | | + 81 | | | |
| | | | $M_Z$ | 〃 | 16 | 37.8 | 9.6 | | | + 28 | | |
| | | | F | 〃 | 46 | 10.0 | | | | | | |
| 242 | Dec. 4 | I v | **P** | **4** | **16** | **54.5** | | | | | **39** | **Near Kyoto.** |
| | | | L | 〃 | 16 | 59.8 | | | | | | |
| | | | $M_E$ | 〃 | 17 | 0·4 | 0.3 | − 25 | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time h. | m. | s. | 週期 Period s | 振幅 Amplitude. $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 4 | 17 | 0.5 | 0.3 | | − 26 | | | |
| | | | $M_Z$ | 〃 | 17 | 0.4 | 0.3 | | | − 6 | | |
| | | | F | 〃 | 19 | 20.0 | | | | | | |
| 243 | Dec. 5 | V v | **P** | **20** | **31** | **59.5** | | | | | **70** | **North western part of Awaji. Island.** |
| | | | $\overline{P}$ | 〃 | 32 | 0.7 | | | | | | |
| | | | L | 〃 | 32 | 8.9 | | | | | | |
| | | | $M_E$ | 〃 | 32 | 46.7 | 2.1 | +175 | | | | |
| | | | $M_N$ | 〃 | 32 | 21.6 | 2.3 | | −301 | | | |
| | | | $M_Z$ | 〃 | 33 | 11.1 | 2.2 | | | ±188 | | |
| | | | F | 〃 | 41 | 34.3 | | | | | | |
| 244 | Dec. 7 | I v | P | 4 | 02 | 37.1 | | | | | 340 | Northern part of Izu. |
| | | | L | 〃 | 03 | 22.9 | | | | | | |
| | | | $M_E$ | 〃 | 03 | 44.5 | 2.2 | − 6 | | | | |
| | | | $M_N$ | 〃 | 03 | 50.2 | 2.3 | | + 12 | | | |
| | | | $M_Z$ | 〃 | 03 | 49.9 | 1.3 | | | + 3 | | |
| | | | F | 〃 | 06 | 10.0 | | | | | | |
| 245 | Dec. 7 | II v | P | 5 | 51 | 4.2 | | | | | 321 | 〃 |
| | | | L | 〃 | 51 | 47.4 | | | | | | |
| | | | $M_E$ | 〃 | 52 | 13.9 | 3.0 | − 13 | | | | |
| | | | $M_N$ | 〃 | 52 | 16.7 | 2.4 | | + 26 | | | |
| | | | $M_Z$ | 〃 | 52 | 32.8 | 2.0 | | | − 7 | | |
| | | | F | 〃 | 59 | 10.0 | | | | | | |
| 246 | Dec. 7 | I v | P | 6 | 07 | 15.3 | | | | | 480 | Kasima-nada. |
| | | | L | 〃 | 08 | 19.9 | | | | | | |
| | | | $M_E$ | 〃 | 08 | 58.1 | 2.4 | + 8 | | | | |
| | | | $M_N$ | 〃 | 08 | 51.4 | 2.9 | | + 11 | | | |
| | | | $M_Z$ | 〃 | 09 | 21.1 | 2.0 | | | − 6 | | |
| | | | F | 〃 | 11 | 40.0 | | | | | | |
| 247 | Dec. 7 | I v | P | 7 | 13 | 29.4 | | | | | 313 | Northern part of Izu. |
| | | | L | 〃 | 14 | 11.5 | | | | | | |
| | | | $M_E$ | 〃 | 14 | 24.4 | 2.7 | ± 4 | | | | |
| | | | $M_N$ | 〃 | 14 | 25.9 | 2.7 | | ± 8 | | | |
| | | | F | 〃 | 16 | 40.0 | | | | | | |
| 248 | Dec. 7 | I v | P | 13 | 36 | 8.7 | | | | | 335 | Near Ōsezaki Cape, Izu. |
| | | | L | 〃 | 36 | 53.8 | | | | | | |
| | | | $M_E$ | 〃 | 37 | 34.9 | 2.1 | ± 4 | | | | |
| | | | $M_N$ | 〃 | 37 | 0.1 | 1.8 | | − 6 | | | |
| | | | F | 〃 | 39 | 40.0 | | | | | | |

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅Amplitude, $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 249 | Dec. 7 | Iv | P | 15 | 35 | 8.2 | | | | | 334 | Near Mt. Hakone. |
| | | | L | 〃 | 35 | 53.1 | | | | | | |
| | | | $M_E$ | 〃 | 36 | 4.0 | 2.4 | − 8 | | | | |
| | | | $M_N$ | 〃 | 36 | 13.2 | 2.4 | | + 11 | | | |
| | | | $M_Z$ | 〃 | 36 | 33.3 | 2.5 | | | + 5 | | |
| | | | F | 〃 | 39 | 10.0 | | | | | | |
| 250 | Dec. 8 | IVr | P | 6 | 24 | 19.6 | | | | | 1974 | Basin of Sobunkei, Formosa. |
| | | | L | 〃 | 27 | 40.0 | | | | | | |
| | | | $M_E$ | 〃 | 31 | 2.0 | 3.7 | + 5 | | | | |
| | | | $M_N$ | 〃 | 31 | 26.0 | 3.5 | | + 5 | | | |
| | | | F | 〃 | 44 | 40.0 | | | | | | |
| 251 | Dec. 8 | Vr | P | 8 | 05 | 21.3 | | | | | 2058 | ditto |
| | | | L | 〃 | 08 | 49.5 | | | | | | |
| | | | $M_E$ | 〃 | 13 | 15.3 | 5.6 | + 13 | | | | |
| | | | $M_N$ | 〃 | 13 | 3.1 | 4.6 | | − 14 | | | |
| | | | $M_Z$ | 〃 | 14 | 22.9 | 11.3 | | | ± 11 | | |
| | | | F | 〃 | 28 | 40.0 | | | | | | |
| 252 | Dec. 8 | IIv | ep | 23 | 39 | 55.4 | | | | | 518 | Near the mouth of Kumagawa, Hukusima prefecture. |
| | | | L | 〃 | 41 | 5.0 | | | | | | |
| | | | $M_E$ | 〃 | 41 | 27.0 | 2.2 | + 5 | | | | |
| | | | $M_N$ | 〃 | 41 | 41.2 | 2.4 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 41 | 34.4 | 2.4 | | | + 6 | | |
| | | | F | 〃 | 44 | 50.0 | | | | | | |
| 253 | Dec. 10 | Ov | P | 13 | 25 | 36.4 | | | | | 135 | Near Gihu. |
| | | | L | 〃 | 25 | 54.5 | | | | | | |
| | | | $M_E$ | 〃 | 26 | 3.4 | 0.7 | + 5 | | | | |
| | | | $M_N$ | 〃 | 26 | 7.7 | 0.7 | | + 4 | | | |
| | | | $M_Z$ | 〃 | 25 | 54.5 | 0.6 | | | − 4 | | |
| | | | F | 〃 | 27 | 50.0 | | | | | | |
| 254 | Dec. 13 | Vv | P | 14 | 24 | 55.6 | | | | | 1134 | Near the mouth of River Nihi Kappu Ho'kkaido. |
| | | | L | 〃 | 26 | 57.0 | | | | | | |
| | | | $M_E$ | 〃 | 29 | 47.7 | 3.4 | + 38 | | | | |
| | | | $M_N$ | 〃 | 29 | 24.7 | 3.2 | | − 50 | | | |
| | | | $M_Z$ | 〃 | 29 | 12.2 | 4.1 | | | + 29 | | |
| | | | F | 〃 | 42 | 50.0 | | | | | | |
| 255 | Dec. 16 | Iv | P | 19 | 50 | 41.4 | | | | | 311 | Northern part of Izu. |
| | | | L | 〃 | 51 | 23.3 | | | | | | |
| | | | $M_E$ | 〃 | 51 | 489 | 3.3 | − 31 | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude, $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_N$ | 19 | 51 | 47.9 | 3.2 | | − 44 | | | |
| | | | $M_Z$ | 〃 | 52 | 29.0 | 2.3 | | | + 13 | | |
| | | | F | 〃 | 56 | 30.0 | | | | | | |
| 256 | Dec. 18 | I v | P | 10 | 44 | 7.8 | | | | | 571 | Near Amakusa Island, Kyusyu. |
| | | | L | 〃 | 45 | 24.8 | | | | | | |
| | | | $M_E$ | 〃 | 46 | 8.9 | 2.1 | − 6 | | | | |
| | | | $M_N$ | 〃 | 46 | 1.7 | 2.2 | | + 6 | | | |
| | | | $M_Z$ | 〃 | 45 | 51.1 | 2.2 | | | ± 5 | | |
| | | | F | 〃 | 51 | 40.0 | | | | | | |
| 257 | Dec. 18 | I v | P | 14 | 22 | 27.2 | | | | | 301 | Near Tani-mura, Yamanasi prefecture. |
| | | | L | 〃 | 23 | 7.7 | | | | | | |
| | | | $M_E$ | 〃 | 23 | 19.2 | 1.3 | + 4 | | | | |
| | | | $M_N$ | 〃 | 23 | 12.1 | 1.9 | | + 5 | | | |
| | | | $M_Z$ | 〃 | 23 | 34.8 | 1.3 | | | ± 3 | | |
| | | | F | 〃 | 26 | 0.0 | | | | | | |
| 258 | Dec. 20 | I v | P | 2 | 45 | 51.9 | | | | | 79 | Upper Basin of the Miya kawa, Mie prefecture. |
| | | | L | 〃 | 46 | 2.5 | | | | | | |
| | | | $M_E$ | 〃 | 46 | 2.7 | 0.5 | + 6 | | | | |
| | | | $M_N$ | 〃 | 46 | 2.9 | 0.4 | | + 9 | | | |
| | | | $M_Z$ | 〃 | 46 | 2.5 | 0.4 | | | ± 2 | | |
| | | | F | 〃 | 47 | 50.0 | | | | | | |
| 259 | Dec. 20 | V v | **P** | **14** | **03** | **3.1** | | | | | **240** | **Near Miyosi. Hirosima prefecture.** |
| | | | L | 〃 | 03 | 35.4 | | | | | | |
| | | | $M_E$ | 〃 | 04 | 26.9 | 1.8 | −475 | | | | |
| | | | $M_N$ | 〃 | 04 | 5.7 | 1.8 | | +525 | | | |
| | | | $M_Z$ | | | — | | | | ±200 | | |
| | | | F | 〃 | 21 | 10.0 | | | | | | |
| 260 | Dec. 20 | II v | P | 14 | 43 | 41.5 | | | | | 229 | ditto |
| | | | L | 〃 | 44 | 12.3 | | | | | | |
| | | | $M_E$ | 〃 | 44 | 14.6 | 1.8 | −475 | | | | |
| | | | $M_N$ | 〃 | 44 | 15.0 | | | | | | |
| | | | $M_Z$ | 〃 | 45 | 21.1 | | | | | | |
| | | | F | 〃 | 50 | 50.0 | | | | | | |
| 261 | Dec. 20 | I v | P | 23 | 27 | 21.0 | | | | | 221 | ditto |
| | | | L | 〃 | 27 | 50.8 | | | | | | |
| | | | $M_E$ | 〃 | 27 | 54.0 | 1.8 | − 43 | | | | |
| | | | $M_N$ | 〃 | 27 | 53.8 | 1.8 | | − 43 | | | |
| | | | $M_Z$ | 〃 | 28 | 20.0 | 2.1 | | | + 14 | | |

# 大阪測候所地震觀測表

## Seismological Bulletin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude, $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | F | 23 | 38 | 30.0 | | | | | | |
| 262 | Dec. 21 | V v | **P** | **12** | **15** | **2.9** | | | | | **232** | **Near Miyosi. Hirosima prefecture.** |
| | | | L | 〃 | 15 | 34.2 | | | | | | |
| | | | $M_E$ | 〃 | 16 | 6.3 | 1.9 | +331 | | | | |
| | | | $M_N$ | 〃 | 15 | 40.7 | 1.8 | | −517 | | | |
| | | | $M_Z$ | 〃 | 15 | 56.1 | 2.0 | | | −181 | | |
| | | | F | 〃 | 29 | 43.0 | | | | | | |
| 263 | Dec. 21 | O v | ep | 13 | 09 | 59.4 | | | | | — | ditto |
| | | | L | 〃 | 10 | 28.4 | | | | | | |
| | | | F | 〃 | 12 | 40.0 | | | | | | |
| 264 | Dec. 21 | O v | P | 13 | 17 | 33.5 | | | | | 226 | ditto |
| | | | L | 〃 | 18 | 3.9 | | | | | | |
| | | | $M_E$ | 〃 | 18 | 8.9 | 0.5 | − 3 | | | | |
| | | | $M_N$ | 〃 | 18 | 27.8 | 0.9 | | ± 3 | | | |
| | | | F | 〃 | 19 | 30.0 | | | − | | | |
| 265 | Dec. 21 | O r | P | 14 | 55 | 34.9 | | | | | 2069 | Off the North coast of Luzon, Philippine. |
| | | | L | 〃 | 59 | 3.8 | | | | | | |
| | | | $M_E$ | 〃 | 59 | 33.2 | 4.6 | −103 | | | | |
| | | | $M_N$ | 〃 | 59 | 31.1 | 4.3 | | + 88 | | | |
| | | | $M_Z$ | 〃 | 59 | 31.2 | 5.2 | | | + 50 | | |
| | | | F | 15 | 13 | 20.0 | | | | | | |
| 266 | Dec. 21 | II v | P | 16 | 31 | 4.2 | | | | | 227 | Near Miyosi, Hirosima prefecture. |
| | | | L | 〃 | 31 | 34.7 | | | | | | |
| | | | $M_E$ | 〃 | 31 | 38.3 | 1.7 | − 11 | | | | |
| | | | $M_N$ | 〃 | 31 | 40.9 | 1.8 | | + 13 | | | |
| | | | F | 〃 | 34 | 20.0 | | | | | | |
| 267 | Dec. 21 | I v | ep | 17 | 38 | 52.6 | | | | | — | ditto |
| | | | L | 〃 | 39 | 20.4 | | | | | | |
| | | | $M_E$ | 〃 | 39 | 45.7 | 1.7 | + 6 | | | | |
| | | | $M_N$ | 〃 | 39 | 42.9 | 1.7 | | + 6 | | | |
| | | | F | 〃 | 41 | 20.0 | | | | | | |
| 268 | Dec. 21 | I v | ep | 20 | 48 | 37.4 | | | | | — | ditto |
| | | | L | 〃 | 49 | 6.0 | | | | | | |
| | | | $M_E$ | 〃 | 49 | 34.4 | 1.1 | − 6 | | | | |
| | | | $M_N$ | 〃 | 49 | 9.1 | | | | | | |
| | | | F | 〃 | 51 | 0.0 | | | | | | |
| 269 | Dec. 21 | V r | ep | 23 | 55 | 35.0 | | | | | 2000 | Middle Basin of Sobunkei, Formosa. |
| | | | L | 〃 | 58 | 58.0 | | | | | | |

International Seismological Centre

# 大阪測候所地震觀測表

## Seismological Bullstin of The Osaka Observatory

| 番號 No. | 月日 Date. | 種類 Char. | 相 Phase. | 時 Time. h. | m. | s. | 週期 Period s | 振幅 Amplitude, $A_E$ μ | $A_N$ μ | $A_Z$ μ | 距離 △ km | 記事 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $M_E$ | 0 | 09 | 21.3 | 6.9 | + 20 | | | | |
| | | | $M_E$ | 〃 | 09 | 10.4 | 8.4 | | ± 10 | | | |
| 270 | Dec. 22 | Vr | ep | 0 | 12 | 8.4 | | | | | 2000 | Middle Basin of Sobunkei, Formosa. |
| | | | L | 〃 | 15 | 31.4 | | | | | | |
| | | | $M_E$ | 〃 | 22 | 9.7 | 10.0 | − 25 | | | | |
| | | | $M_N$ | 〃 | 19 | 52.6 | 12.4 | | + 28 | | | |
| | | | F | 〃 | 53 | 10.0 | | | | | | |
| 271 | Dec. 22 | Ov | ep | 3 | 24 | 4.6 | | | | | 217 | Near Miyosi, Hirosima prefecture. |
| | | | L | 〃 | 24 | 33.8 | | | | | | |
| | | | $M_E$ | 〃 | 24 | 37.0 | 1.7 | + 10 | | | | |
| | | | $M_N$ | 〃 | 24 | 37.0 | 2.1 | | − 13 | | | |
| | | | F | 〃 | 28 | 0.0 | | | | | | |
| 272 | Dec. 23 | Iv | P | 10 | 47 | 18.4 | | | | | 227 | ditto |
| | | | L | 〃 | 47 | 48.9 | | | | | | |
| | | | $M_E$ | 〃 | 47 | 52.4 | 1.2 | + 8 | | | | |
| | | | $M_N$ | 〃 | 47 | 52.6 | 1.2 | | − 8 | | | |
| | | | F | 〃 | 49 | 50.0 | | | | | | |
| 273 | Dec. 23 | Vv | P | 23 | 57 | 52.1 | | | | | 1093 | East off Erimo Cape, Hokkaido. |
| | | | L | 〃 | 59 | 49.4 | | | | | | |
| | | | $M_E$ | 0 | 01 | 21.2 | 2.1 | − 20 | | | | |
| | | | $M_N$ | 0 | 01 | 6.5 | 3.2 | | ± 25 | | | |
| | | | $M_Z$ | 〃 | 01 | 0.7 | 2.5 | | | ± 12 | | |
| | | | F | 〃 | 08 | 20.0 | | | | | | |
| 274 | Dec. 31 | Ov | P | 11 | 16 | 44.9 | | | | | 651 | NW. far off Bonin Island. |
| | | | L | 〃 | 18 | 12.5 | | | | | | |
| | | | $M_E$ | 〃 | 18 | 12.5 | 2.7 | + 6 | | | | |
| | | | $M_N$ | 〃 | 18 | 29.0 | 2.5 | | ± 6 | | | |
| | | | F | 〃 | 23 | 0.0 | | | | | | |

International Seismological Centre

# 顯著地震概況

## Special Earthquakes.

### 十月十七日大聖寺附近の地震

此地震は石川縣大聖寺附近に發したる强震にして有感覺區域北陸道及び近畿地方の大半及び中部地方の西半より山陰道東部に亘り震央地附近にては土地の龜裂又は陷沒、石燈籠の倒壞等あり電信電話線にも相當の被害ありたり

各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P-S | 繼續時間 S-L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P-S | 繼續時間 S-L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 福井 | 6 36 18 | — | — | 28 | 潮岬 | 6 36 44 | 0 33 | — | 247 |
| 伏木 | 〃 36 09 | 0 11 | — | 86 | 東京 | 〃 36 51 | 0 39 | — | 289 |
| 岐阜 | 〃 36 18 | 0 13 | — | 105 | 柿岡 | 〃 36 54 | 0 46 | — | 341 |
| 彦根 | 〃 36 18 | 0 14 | — | 113 | 濱田 | 〃 36 56 | 0 53 | — | 391 |
| 宮津 | 〃 36 19 | 0 16 | — | 129 | 吳 | 〃 36 57 | 0 55 | — | 410 |
| 名古屋 | 〃 36 20 | 0 18 | — | 135 | 仙臺 | 〃 37 04 | 1 02 | — | 460 |
| 京都 | 〃 36 22 | 0 20 | — | 150 | 福岡 | 〃 37 28 | 1 24 | — | 621 |
| 長野 | 〃 36 24 | 0 22 | — | 170 | 宮崎 | 〃 37 30 | 1 37 | — | 722 |
| 大阪 | 〃 36 27 | 0 26 | — | 191 | 鹿兒島 | 〃 37 43 | 1 45 | — | 779 |
| 神戸 | 〃 36 32 | 0 26 | — | 204 | 函館 | 〃 38 24 | 1 44 | — | 768 |
| 洲本 | 〃 36 38 | 0 32 | — | 241 | マニラ(比律賓) | 〃 41 13 | 4 31 | 2 50 | 2990 |

### 十月二十五日「マリアナ」海溝の地震

此地震は「マリアナ」海溝に發したる深層地震にして微動は全世界の地震計に感じたり

各震に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P--S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 分 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 父島 | 5 17 25 | 1 46 | — | 783 | 名古屋 | 5 19 28 | 3 48 | — | 2290 |
| 八丈島 | 〃 18 50 | 3 26 | — | 2032 | 大阪 | 〃 19 31 | 3 32 | — | 2102 |
| 潮岬 | 〃 19 08 | 3 17 | — | 1931 | 神戸 | 〃 19 33 | 3 34 | — | 2117 |
| 銚子 | 〃 19 19 | 3 39 | — | 2177 | 宮崎 | 〃 19 35 | 3 42 | — | 2215 |
| 東京 | 〃 19 23 | 3 27 | — | 2045 | 多度津 | 〃 19 39 | 3 36 | — | 2147 |

International Seismological Centre

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 石巻 | 5 19 49 | 3 54 | — | 2360 | (濠洲) シドニー | 5 24 23 | 7 18 | 8 26 | 5730 |
| 長崎 | 〃 19 49 | 3 49 | — | 2299 | (北米) タクソン | 〃 28 13 | — | — | 10200 |
| 福岡 | 〃 19 54 | 3 51 | — | 2330 | (丁抹) コペンハーゲン | 〃 28 38 | — | — | 11000 |
| 水澤 | 〃 19 56 | 3 56 | — | 2390 | (獨逸) ハムブルグ | 〃 28 49 | — | P—L 34 11 | 11000 |
| (支那上海) ジガウエー | 〃 20 06 | 4 18 | — | 2660 | (北米) セントルイス | 〃 29 04 | — | 28 36 | 11430 |
| 釜山 | 〃 20 11 | 4 03 | — | 2470 | (獨逸) スタツトガルト | 〃 29 07 | 11 43 | 24 10 | 11300 |
| 室蘭 | 〃 20 30 | 4 14 | — | 2615 | (佛國) ストラスブルグ | 〃 29 09 | 13 20 | — | 11644 |
| 根室 | 〃 20 32 | 4 27 | — | 2777 | (瑞西) チューリヒ | 〃 29 13 | — | — | 12000 |
| (比律賓) マニラ | 〃 20 35 | 4 46 | 3 25 | 3220 | (瑞西) ニューシヤテル | 〃 29 18 | — | — P—L | 11700 |
| 台東 | 〃 20 37 | 4 18 | — | 2665 | (北米) パツフアロ | 〃 29 24 | — | 35 36 | 10700 |
| 恒春 | 〃 20 40 | 4 21 | — | 2698 | (英國) キユー | 〃 29 34 | 11 29 | 16 57 P—L | 10700 |
| (印度支那) 海防 | 〃 22 28 | 5 49 | — | 4030 | (北米) ジヨージトン | 〃 29 37 | — | 33 23 | 12210 |
| (ジヤワ島) バタビヤ | 〃 23 36 | 6 45 | 8 39 | 5170 | (北米) フオールドハム | 〃 29 41 | 10 34 | 24 08 | 12320 |
| (ジヤワ島) アラパー | 〃 23 45 | 6 34 | — | 4980 | (佛國) パークサンマール | 〃 30 00 | 12 52 | 22 08 P—L | — |
| (スマトラ島) メダン | 〃 23 59 | 7 05 | — | 5490 | (獨逸) フランクフルト | 〃 33 21 | — | 30 39 P—L | — |
| (布哇) ホノルル | 〃 24 17 | 7 28 | — | 5850 | (西班牙) グラナダ | 〃 33 45 | — | 39 01 | 13080 |

## 十一月二十六日北伊豆の地震

此地震は北伊豆に發したる烈震にして有感覺區域、北東は陸前、羽前の南部より南西は出雲、備後の東部より讃岐、阿波の東部に亘り箱根山南端より丹那盆地を經て浮橋に連り更に南方原保に至る約三十粁の大斷層、原保より西北西青羽根に至る原保斷層、青羽根より加殿を經て浮橋附近に達する加殿斷層等數條の斷層現はれ家屋の倒潰四千二百四十二戸全燒家屋百五十戸、死者三百十八名あり、山津浪、崖崩れ、陷落、隆起、龜裂等の地變は枚擧に遑あらず此地震の特性として多數の前震を發したることなり

各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 三島 | 4 02 48 | 0 03 | — | 10 | 松本 | 4 03 11 | 0 20 | — | 158 |
| 沼津 | 〃 02 48 | 0 03 | — | 14 | 筑波山 | 〃 03 13 | 0 22 | — | 164 |
| 布良 | 〃 03 01 | 0 10 | — | 76 | 名古屋 | 〃 03 18 | 0 20 | — | 187 |
| 東京 | 〃 03 05 | 0 13 | — | 99 | 長野 | 〃 03 19 | 0 24 | — | 191 |
| 熊谷 | 〃 03 09 | 0 16 | — | 126 | 八丈島 | 〃 03 24 | 0 30 | — | 226 |

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 京都 | 4 03 33 | 0 44 | — | 290 | （ジヤワ島）パタビヤ | 4 11 46 | 7 31 | 8 49 | 5800 |
| 大阪 | 〃 03 34 | 0 47 | — | 346 | （スマトラ島）メダン | 〃 11 47 | 7 08 | 10 53 | 5540 |
| 神戸 | 〃 03 37 | 0 45 | — | 345 | （濠洲）シドニー | 〃 13 57 | 9 12 | 10 21 | 7840 |
| 潮岬 | 〃 03 38 | 0 44 | — | 342 | （丁抹）コペンハーゲン | 〃 14 54 | 9 57 | — | 8740 |
| 和歌山 | 〃 03 39 | 0 55 | — | 356 | （獨逸）ハムブルグ | 〃 15 11 | 10 08 | 18 41 | 9050 |
| 石巻 | 〃 03 47 | 0 48 | — | 422 | （英國）ストニーハースト | 〃 15 18 | 10 38 | — | 9510 |
| 岡山 | 〃 03 50 | 1 08 | — | 458 | （ユーゴースラビヤ）ザグレブ | 〃 15 27 | 10 23 | — | 9250 |
| 高知 | 〃 03 59 | 1 05 | — | 520 | （和蘭）デビルト | 〃 15 28 | 10 20 | — | 9190 |
| 盛岡 | 〃 04 04 | 1 07 | — | 543 | （佛國）ストラスブルグ | 〃 15 29 | 10 39 | — | 9590 |
| 境 | 〃 04 06 | 1 12 | — | 518 | （獨逸）スタツトガルト | 〃 15 29 | 10 25 | 22 06 | 9200 |
| 廣島 | 〃 04 12 | 1 29 | — | 594 | （白耳義）ウツクル | 〃 15 32 | 10 26 | — | 9320 |
| 下關 | 〃 04 31 | 1 49 | — | 739 | （英國）オツクスフオード | 〃 15 34 | 10 34 | — | 9470 |
| 宮崎 | 〃 04 34 | 1 47 | — | 773 | （伊太利）ナポリ | 〃 15 35 | 10 25 | — | 9300 |
| 室蘭 | 〃 04 40 | 2 02 | — | 818 | （獨逸）フランクフルト | 〃 15 36 | 10 15 | — | 9090 |
| 鹿兒島 | 〃 04 46 | 1 50 | — | 866 | （瑞西）チユーリヒ | 〃 15 38 | 10 30 | — | 9400 |
| 釜山 | 〃 04 56 | 1 39 | — | 884 | （瑞西）ニユーシヤテル | 〃 15 38 | 10 36 | — | 9510 |
| 旭川 | 〃 05 06 | 1 58 | — | 990 | （英國）キユー | 〃 15 40 | 10 32 | 14 48 | 9440 |
| 仁川 | 〃 05 25 | 2 34 | — | 1110 | （伊太利）パドー | 〃 15 41 | 10 29 | — | 9500 |
| 大泊 | 〃 05 43 | 2 22 | — | 1315 | （北米）タクソン | 〃 15 43 | 10 23 | — | 9250 |
| （支那上海）ジガウエー | 〃 06 20 | 3 14 | — | 1922 | （佛國）パークサンマール | 〃 15 45 | 10 23 | 6 52 | 9250 |
| 大連 | 〃 06 22 | 2 55 | — | 1558 | （北米）バツフアロ | 〃 15 54 | 11 20 | 9 12 | 10490 |
| 台北 | 〃 07 01 | 3 36 | — | 1972 | （北米）セントルイス | 〃 16 01 | 11 20 | 22 04 | 10490 |
| 台南 | 〃 07 15 | 4 01 | — | 2208 | （カナダ）オツタク | 〃 16 12 | 11 06 | 20 42 P—L | 10180 |
| （比律賓）マニラ | 〃 08 26 | 4 24 | 2 37 | 2880 | （北米）ジヨージトン | 〃 16 30 | — | 31 30 P—L | — |
| （印度支那）海防 | 〃 09 17 | 5 09 | — | 3370 | （北米）ワシントン | 〃 16 58 | — | 31 02 P—L | — |
| （南洋モルツカ諸島）アンボイナ | 〃 11 08 | 5 10 | — | 3385 | （西班牙）グラナダ | 〃 16 59 | — | 34 05 | 11090 |

## 十二月四日「ビルマ」の地震

此地震は「ビルマ」の南方に發したる强震にして「ラングーン」に近き「ピンタンザ」及び「ツングー」兩地方は强震に襲はれ死者廿二名を出したり

各地に於ける發震時等を記すれば下の如し

International Seismological Centre

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| （印度支那） | | | | | （伊太利） | | | | |
| 海防 | 3 54 07 | 1 53 | — | 1050 | ロツカデイパパ | 4 03 18 | 9 32 | — | 8250 |
| （印度） | | | | | （獨逸） | | | | |
| ボムベイ | 〃 56 41 | 4 07 | — | 2500 | ハムブルグ | 〃 03 18 | 9 31 | 15 11 | 8200 |
| （比律賓） | | | | | （獨逸） | | | | |
| マニラ | 〃 57 00 | 4 25 | 2 48 | 2890 | スタツトガルト | 〃 03 27 | 9 33 | 18 00 | 8200 |
| （ジヤワ島） | | | | | （瑞西） | | | | |
| バタビヤ | 〃 57 12 | 4 54 | 4 54 | 3190 | チユーリヒ | 〃 03 28 | 9 39 | — | 8400 |
| （支那上海） | | | | | （伊太利） | | | | |
| ジカウエー | 〃 57 51 | 4 32 | — | 3000 | フロレンス | 〃 03 29 | 9 31 | — | 8300 |
| 福岡 | 〃 58 15 | 5 53 | 6 04 | 4110 | （佛國） | | | | |
| | | | | | ストラスブルグ | 〃 03 32 | 9 40 | — | 8400 |
| 高知 | 〃 58 59 | 5 34 | 3 51 | 3775 | （瑞西） | | | | |
| （南洋モルツカ諸島） | | | | | ニューシヤテル | 〃 03 32 | 9 35 | — | 8400 |
| アンボイナ | 〃 59 06 | 5 56 | 10 58 | 4370 | （和蘭） | | | | |
| | | | | | デビルト | 〃 03 43 | 9 43 | — | 8450 |
| 大阪 | 〃 59 19 | 5 56 | 4 39 | 4157 | （白耳義） | | | | |
| | | | | | ウツクル | 〃 03 46 | 9 46 | — | 8530 |
| 長野 | 〃 59 37 | 6 02 | 4 53 | 5004 | （佛國） | | | | |
| | | | | | パークサンマール | 〃 03 55 | 9 55 | 8 10 | 8700 |
| 水澤 | 〃 59 54 | 6 33 | 7 15 | 4830 | （英國） | | | | |
| | | | | | デース | 〃 04 01 | 9 50 | — | 8600 |
| （シリア） | | | | | （英國） | | | | |
| クサラ | 4 01 29 | 7 43 | — | 6167 | キユー | 〃 04 01 | 10 01 | 8 15 | 8820 |
| （埃及） | | | | | （英國） | | | | |
| カイロ | 〃 01 58 | 8 02 | — | 6480 | オツクスフオード | 〃 04 07 | 9 56 | — | 8720 |
| （マダガスカル島） | | | | | （英國） | | | | |
| タナナリボ | 〃 02 07 | 8 09 | — | 6610 | ストニーハースト | 〃 04 10 | 9 58 | — | 8600 |
| （ユーゴースラビヤ） | | | | | （西班牙） | | | | |
| ベルグラード | 〃 02 41 | 8 56 | — | 7310 | トルトサ | 〃 04 14 | 10 16 | — | 9100 |
| （ユーゴースラビヤ） | | | | | （西班牙） | | | | |
| ザグレブ | 〃 02 57 | 9 14 | — | 7890 | トレド | 〃 04 28 | 10 30 | — | 9390 |
| （伊太利） | | | | | （西班牙） | | | | |
| トレンタ | 〃 03 00 | 9 30 | — | 8200 | グラナダ | 〃 04 36 | 10 22 | 7 50 | 9740 |
| （伊太利） | | | | | （西班牙） | | | | |
| タレンテ | 〃 03 06 | 9 15 | — | 7900 | サンフエルナンド | 〃 04 40 | 10 50 | 16 15 | 9820 |
| （伊太利） | | | | | （アイスランド） | | | | |
| メツシナ | 〃 03 08 | 9 15 | — | 8100 | ライキヤビク | 〃 04 41 | 10 27 | 16 52 | 9330 |
| （伊太利） | | | | | （英國） | | | | |
| カタニヤ | 〃 03 10 | 9 20 | — | 8000 | ウエストプロムウチ | 〃 04 49 | 9 18 | — | 7970 |
| （丁抹） | | | | | （南米） | | | | |
| コペンハーゲン | 〃 03 11 | 9 19 | — | 7980 | ラパズ | 〃 11 51 | — | — | 18200 |

## 十二月八日臺灣南部曾文溪中流の地震

此地震は曾文溪中流地方に發したる强震にして全壞家屋百十六戸死者數十名に達したり各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 台南 | 17 01 14 | 0 06 | — | 41 | （比律賓） | | | | |
| | | | | | マニラ | 17 03 08 | 1 43 | — | 970 |
| 台東 | 〃 01 19 | 0 09 | — | 67 | 長崎 | 〃 04 01 | 2 32 | — | 1445 |
| 澎湖 | 〃 01 15 | 0 11 | — | 82 | 温泉岳 | 〃 04 01 | 3 04 | — | 1785 |
| | | | | | （印度支那） | | | | |
| 台中 | 〃 01 14 | 0 19 | — | 141 | 海防 | 〃 04 08 | 3 00 | — | 1740 |
| 花蓮港 | 〃 01 23 | 0 20 | — | 148 | 福岡 | 〃 04 20 | 3 07 | — | 1824 |
| 石垣島 | 〃 01 55 | 0 42 | — | 314 | 高知 | 〃 05 03 | 3 07 | — | 1820 |
| 那覇 | 〃 02 54 | 0 53 | — | 396 | 神戸 | 〃 05 07 | 3 33 | — | 2113 |

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 洲本 | 17 05 17 | 3 47 | — | 2283 | 東京 | 17 06 02 | 4 38 | — | 2930 |
| 大阪 | 〃 05 21 | 3 28 | — | 2058 | 水澤 | 〃 06 07 | 4 19 | — | 2680 |
| 岐阜 | 〃 05 23 | 3 40 | — | 2204 | (伊太利) メツシナ | 〃 13 00 | 10 32 | — | 9430 |
| 多度津 | 〃 05 33 | 3 46 | — | 2270 | (伊太利) フロレンス | 〃 13 33 | 10 30 | — | 9400 |
| 三島 | 〃 05 36 | 3 50 | — | 2324 | (獨逸) スタツトガルト | 〃 13 45 | 10 00 | 23 15 P—L | 8700 |
| 熊谷 | 〃 05 44 | 4 00 | — | 2440 | (南米) ラパズ | 〃 21 09 | — | 65 51 P—L | — |
| 長野 | 〃 05 45 | 3 48 | — | 2208 | (佛國) パークサンマール | 〃 23 00 | — | 27 00 | — |

## 十二月二十二日臺灣南部曾文溪中流の地震

此地震は曾文溪中流地方に發したる强震にして十二月八日の地震と略ぼ同樣にして全潰家屋九十戸死傷者數十名ありたり

各地に於ける發震時等を記すれば下の如し

| 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 | 觀測所名 | 發震時 | 繼續時間 P—S | 繼續時間 S—L | 震央距離 |
|---|---|---|---|---|---|---|---|---|---|
| | 時 分 秒 | 分 秒 | 分 秒 | 粁 | | 時 分 秒 | 分 秒 | 分 秒 | 粁 |
| 台南 | 8 51 43 | 0 05 | — | 34 | 伏木 | 8 55 59 | 3 47 | — | 2276 |
| 台東 | 〃 52 27 | 0 14 | — | 104 | 長野 | 〃 56 03 | 3 51 | — | 2328 |
| 恒春 | 〃 52 11 | 0 27 | — | 200 | 熊谷 | 〃 56 06 | 3 55 | — | 2381 |
| 台北 | 〃 52 41 | 0 33 | — | 243 | 筑波山 | 〃 56 15 | 5 02 | — | 3262 |
| 台中 | 〃 52 40 | 0 42 | — | 312 | 仙臺 | 〃 56 22 | 4 04 | — | 2477 |
| 石垣島 | 〃 52 38 | 0 44 | — | 327 | 福島 | 〃 56 23 | 4 09 | — | 2550 |
| 花蓮港 | 〃 52 25 | 0 55 | — | 408 | 秋田 | 〃 56 36 | 5 15 | — | 3475 |
| (比律賓) マニラ | 〃 52 57 | 1 09 | — | 660 | (濠洲) シドニー | 9 01 22 | 8 01 | — | 6460 |
| 那覇 | 〃 53 21 | 1 25 | — | 628 | (獨逸) ハムブルグ | 〃 03 50 | 10 10 | 13 18 | 9100 |
| 温泉岳 | 〃 54 42 | 2 38 | — | 1512 | (伊太利) フロレンス | 〃 04 03 | 10 30 | — | 9400 |
| 宮崎 | 〃 54 43 | 2 36 | — | 1494 | (獨逸) スタツトガルト | 〃 04 04 | 10 26 | 18 30 | 9300 |
| 長崎 | 〃 54 44 | 2 36 | — | 1491 | (伊太利) トレンタ | 〃 04 05 | 10 35 | — | 9500 |
| 熊本 | 〃 54 49 | 2 47 | — | 1614 | (和蘭) デビルト | 〃 04 05 | 10 33 | — | 9450 |
| (印度支那) 海防 | 〃 54 51 | 2 49 | — | 1630 | (佛國) ストラスブルグ | 〃 04 06 | 10 34 | — | 9500 |
| 福岡 | 〃 54 56 | 2 50 | — | 1641 | (瑞西) チューリヒ | 〃 04 08 | 10 36 | — | 9510 |
| パラオ | 〃 55 21 | 3 15 | — | 1908 | (伊太利) ロツカデイパパ | 〃 04 08 | 10 14 | — | 9060 |
| 潮岬 | 〃 55 25 | 3 14 | — | 1900 | (佛國) プライサンス | 〃 04 19 | 10 02 | — P—L | 8830 |
| 神戸 | 〃 55 33 | 3 24 | — | 2007 | (英國) キュー | 〃 04 20 | — | 30 40 P—L | — |
| 大阪 | 〃 55 35 | 3 23 | — | 2000 | (佛國) パークサンマール | 〃 04 21 | — | 22 39 | — |
| 京都 | 〃 55 40 | 3 34 | — | 2120 | (西班牙) グラナダ | 〃 09 30 | 9 38 | — | 8370 |