

ANNUAL REPORT
OF THE
METEOROLOGICAL
AND THE
SEISMOLOGICAL OBSERVATIONS
MADE AT THE
INTERNATIONAL LATITUDE OBSERVATORY
OF MIZUSAWA
FOR
THE YEAR 1926.

LATITUDE $39^{\circ} 8'$ N., LONGITUDE $141^{\circ} 8'$ E.,

HEIGHT ABOVE MEAN SEA LEVEL 61 METRES.

PUBLISHED BY THE INTERNATIONAL LATITUDE OBSERVATORY
OF MIZUSAWA.

1927.

The present report gives the results of the meteorological and seismological observations made at the International Seismological Centre observatory during the year 1926. No alteration has been made in the nature and methods of observation. The observations and the calculations were made by Messrs. K. Torihata, S. Satô and I. Kumagai under the superintendence of Dr. T. Ikeda.

The followings are to be noted with respect to the meteorological observations:

Hours of observations—Japanese Central Standard Time (i. e. mean time of the meridian 9h east from Greenwich) is adopted.

Air Pressure.—The barometric readings in millimetres are reduced to the freezing point of water, the corrections to sea level and to standard gravity are given at the bottom of the page for each month.

Air and Earth Temperatures.—The degrees are given in Centigrade.

* *Wind*—The velocity is expressed in metres per second. The direction was observed relative to the sixteen points of the compass.

Cloud.—The amount is estimated by the scale 0-10, the forms are those of the *International classification*, and the direction of motion is indicated relative to the sixteen points of the compass.

Tension of Water Vapour.—is given in millimetres.

Relative Humidity.—is given in percentages.

Precipitation.—The amount is given in millimetres. In the total number of days only those, on which the amount is 0.1mm or more in the day, are reckoned. But all the days, on which snow, hail, or graupel fell, are included without reference to the amount.

Clear and Cloudy Days.—The amount of cloud is less than 2, 2 exclusive, for the former; and more than 8, 8 inclusive, for the latter.

Duration of Sunshine.—is recorded by a Jordan sunshine-recorder.

Amount of Evaporation.—is given in millimetres, for each day,—that is from 10h of the preceding day to 10h of the day in question, according to the instruction of the Central Meteorological Observatory in Tokyo.

The heights of the meteorological instruments are as follows,

Barometer.—63.1m above sea level.

Air temperature thermometer.—1.7m above the ground,

Anemometer.—15.4m above the ground,

Wind vane.—16.6m above the ground,

* Note: The wind velocity is measured by the Robinson anemometer. Since January first of the year 1925 a new factor for this instrument has been used. The ratio of new factor to the old one is 0.7/1.0

In recording meteorological phenomena the following symbols are used:—

| | | | | | |
|---|---------------------------|---|--------------------------|----|----------------|
| ● | Rain | + | Snow drift | C | Cirrus |
| * | Snow | ← | Ice crystals | CS | Cirro-stratus |
| ☒ | Thunder storm | ○ | Solar corona | CK | Cirro-cumulus |
| ⊜ | Thunder without lightning | ⊕ | Solar halo | KC | Cumulo-cirrus |
| ⊲ | Lightning without thunder | ⊴ | Lunar corona | SC | Strato-cirrus |
| △ | Graupel | ⊵ | Lunar halo | SK | Strato-cumulus |
| ▲ | Hail | ↗ | Gales | N | Nimbus |
| ≡ | Mist, fog | ⌞ | Rainbow | K | Cumulus |
| □ | Hoar frost | ⌟ | Aurora | KN | Cumulo-nimbus |
| ▷ | Dew | ∞ | Dust haze | S | Stratus |
| ▽ | Silver thaw | ✳ | Snow lying | ~~ | Wave cloud |
| — | Glazed frost | ⌞ | Ice Column in the ground | ⊗ | Zodiacal light |

The descriptions of the meteorological instruments are found in the annual reports for the years 1902, 1904, 1905, 1910, and 1916.

The seismological instruments in use are two Omori's horizontal pendulums, of the same type as that described in p. 8 of No. 5, "Publication of the Earthquake Investigation Committee in Foreign Language," one serving to register the EW component, and the other the NS component, of seismological movements.

The time adopted in the Seismological observations is Greenwich Local Time.

| | EW Component | NS Component | |
|---|-----------------|-----------------|-----------|
| | | Apparatus | Apparatus |
| Period of free oscillation | 16 seconds | 36 seconds | |
| Multiplication of the pointer | 100 times | 20 times | |
| Weight of heavy cylinder | 45.0 kilograms | 17.6 kilograms | |
| Horizontal distance of the centre of the cylinder from the point of support | 20 Centimetres | 75 Centimetres | |
| Vertical distance between the points of support and of suspension | 104 Centimetres | 104 Centimetres | |

July, 1927

H.Kimura, Rigakuhakushi

Director of the International Latitude Observatory

in Mirusawa.

SEISMOLOGICAL OBSERVATIONS

TABLE A.
(Earthquakes)

| No. | Date 1926 | P | | | S | | | L | | | Duration of Total Earthquake (mean) | Maximum Range of Motion | | | Character of Motion | Intensity | Remarks |
|-----|--------------|-------|------|-------|-------|-------|-------|-------|-------|-------|---|----------------------------|------|------------------|---------------------------|-----------|---------|
| | | E | W | N | S | E | W | N | S | E | W | E | W | N | S | | |
| 1 | Jan. | h 20 | m ? | S | m S | m S | 27 44 | m S | m S | m S | m S | m | num | mm | — | Slow | Feeble |
| 2 | | 0 | ? | | — — | — | 55 20 | — | — | — | — | ? | 0.01 | — | — | " | " |
| 3 | | 15 | 05 | 16 | 05 16 | 05 33 | 05 34 | — | — | — | — | 3.6 | 0.09 | 0.09 | — | " | " |
| 4 | | 12 | 43 | 36 | 43 37 | 44 01 | 44 00 | — | — | — | — | 4.4 | 0.02 | 0.01 | — | " | " |
| 5 | | 2 | 34 | 52 | — — | 35 07 | — — | — | — | — | — | 2.7 | 0.02 | — | — | " | " |
| 6 | | 10 | 9 03 | 28 | 03 28 | 04 04 | 04 05 | — | — | — | — | 8.3 | 0.14 | 0.11 | — | " | " |
| 7 | | 9 | 35 | 59 | 36.2 | 36 39 | 36 40 | — | — | — | — | 6.0 | 0.05 | 0.05 | — | " | " |
| 8 | | 23 | 35 | 36 | — — | 36 11 | — — | — | — | — | — | 1.6 | 0.00 | — | — | " | " |
| 9 | | 10 | 53 | 42 | 53 43 | 54 08 | 54 07 | — | — | — | — | 6.8 | 0.08 | 0.10 | — | " | " |
| 10 | | 14 | 54 | 22 | 54 23 | 55 33 | 55 35 | — | — | — | — | 7.6 | 0.16 | 0.25 | — | " | " |
| 11 | Feb. | 21 | 16 | 47 | — — | 17 59 | — — | — | — | — | — | 7.0 | ? | — | — | " | " |
| 12 | | 21 | ? | ? | 32 | 45 32 | 52 38 | 52 38 | 59 30 | 59 26 | 59 26 | 117.3 | ? | ? | — | " | " |
| 13 | | 0 | 45 | 32 | 45 | — — | 44 57 | — — | — | — | — | 2.9 | 0.01 | — | — | " | " |
| 14 | | 15 | 44 | 41 | — — | 32 54 | — — | — | — | — | — | 3.3 | 0.00 | — | — | " | " |
| 15 | | 4 | 32 | 21 | — — | — | — | — | — | — | — | — | — | — | — | " | " |
| 16 | | 21 | 47 | 46 | ? | 48 40 | ? | — | — | — | — | 5.2 | 0.01 | 0.01 | — | " | " |
| 17 | | 6 | 44 | 52 | 44 52 | 45 18 | 45 19 | — | — | — | — | 17.5 | ? | 1.7 ⁵ | Quick | Weak | Felt |
| 18 | | 8 | 51 | 47 | ? | 53 10 | 53 10 | — | — | — | — | 7.8 | 0.05 | 0.04 | Slow | Feeble | |
| 19 | | 1 | 57 | 45 | ? | 53 01 | 53 02 | — | — | — | — | 3.3 | 0.04 | 0.04 | — | " | " |
| 20 | | 22 | 57 | 47 | — — | 57 54 | — — | — | — | — | — | 2.2 | 0.01 | — | — | " | " |
| 21 | Mar. | 5 08 | 20 | 08 21 | 10 14 | 10 15 | — | — | — | — | — | 4.6 | 0.05 | 0.04 | — | " | " |
| 22 | | 14 | 59 | 12 | — — | 59 34 | — — | — | — | — | — | 4.2 | 0.01 | — | — | " | " |
| 23 | | 6 | ? | — — | 38 48 | — — | — | — | — | — | — | ? | 0.01 | — | " | " | " |
| 24 | | 10 | 42 | 31 | 42.6 | 43 11 | 43 11 | — | — | — | — | 6.3 | 0.13 | 0.10 | — | " | " |
| 25 | | 4 | 54 | 14 | — — | 54 25 | — — | — | — | — | — | 2.2 | 0.01 | — | — | " | " |
| 26 | | 21 | 21 | 24 | — — | 21 53 | — — | — | — | — | — | 5.0 | 0.01 | — | — | " | " |
| 27 | | 3 | ? | — — | 59 10 | — — | — | — | — | — | — | ? | 0.01 | — | — | " | " |
| 28 | | 20 | 53 | 35 | — — | 53 55 | — — | — | — | — | — | 4.2 | 0.03 | — | — | " | " |
| 29 | | 23 | ? | — — | 51 25 | — — | — | — | — | — | — | ? | 0.01 | — | — | " | " |
| 30 | | 6 | 63 | 31 | — — | 03 51 | — — | — | — | — | — | 4.0 | 0.01 | — | — | " | " |
| 31 | Apr. | 25 | 17 | 03 | 51 | — — | 04 12 | — — | — | — | — | 2.9 | 0.01 | — | — | " | " |
| 32 | | 18 | ? | — — | 02 03 | — — | — | — | — | — | — | ? | 0.01 | — | — | " | " |
| 33 | | 9 | 38 | 03 | 38 03 | 43 37 | 43 36 | 49 30 | 49 28 | 49 28 | 31.0 | 0.01 | 0.06 | — | " | " | " |
| 34 | | 12 | ? | — — | 54 16 | — — | — | — | — | — | — | ? | 0.01 | — | — | " | " |
| 35 | | 14 | 14 | ? | — — | 22 50 | — — | — | — | — | — | ? | 0.01 | — | — | " | " |
| 36 | May | 10 | 34 | 33 | ? | 35 02 | 35 01 | — | — | — | — | 3.9 | 0.03 | 0.01 | — | " | " |
| 37 | | 20 | 23 | 20 | 23 21 | 24 27 | 24 27 | — | — | — | — | 9.7 | 0.25 | 0.25 | — | " | " |
| 38 | | 20 | 46 | 7 | — — | 47 37 | — — | — | — | — | — | 3.2? | 0.00 | — | — | " | " |
| 39 | | 3 | 00 | 0 | — — | 00 24 | — — | — | — | — | — | 5.5? | 0.01 | — | — | " | " |
| 40 | | 19 | 19 | ? | — — | 11 47 | — — | — | — | — | — | ? | 0.01 | — | — | " | " |
| 41 | June | 20 | 33 | 25 | 33 25 | 33 54 | 33 54 | — | — | — | — | 9.6 | 0.26 | 0.38 | Quick | Weak | Felt |
| 42 | | 11 | 01 | 04 | — — | 01 37 | — — | — | — | — | — | 4.4 | 0.01 | — | Slow | Feeble | |
| 43 | | 17 | ? | — — | 30 19 | — — | — | — | — | — | — | ? | 0.01 | — | " | " | " |
| 44 | | 0 | 29 | 31 | — — | 30 08 | — — | — | — | — | — | 6.0 | 0.03 | — | — | " | " |
| 45 | | 22 | 9 | ? | — — | 41 23 | — — | — | — | — | — | ? | 0.02 | — | — | " | " |
| 46 | July | 11 | 01 | 20 | — — | 01 48 | — — | — | — | — | — | 5.3 | 0.02 | — | — | " | " |
| 47 | | 13 | 42 | 18 | — — | 42 48 | — — | — | — | — | — | 3.1 | 0.01 | — | — | " | " |
| 48 | | 13 | 19 | 56 | 19 57 | 20 47 | 20 47 | — | — | — | — | 10.7 | 0.52 | 0.55 | Quick | Weak | Felt |
| 49 | | 10 | 56 | 7 | 56 58 | 64 51 | 64 51 | 72 52 | 72 52 | 72 52 | 90.8 | 0.02 | 0.32 | Slow | Feeble | | |
| 50 | | 11 | 47 | 25 | — — | 43 01 | — — | — | — | — | — | 4.3 | 0.01 | — | — | " | " |
| 51 | Aug. | 12 | 07 | 07 | — — | 07 42 | — — | — | — | — | — | 4.3 | 0.01 | — | — | " | " |
| 52 | | 16 | 05 | 26 | 05 26 | 06 34 | 06 34 | — | — | — | — | 11.4 | ? | 0.22 | — | " | " |
| 53 | | 4</td | | | | | | | | | | | | | | | |

TABLE A.
(Earthquakes)

| No. | Date 1926 | P | | | | S | | | | L | | | | Duration of Total Earthquake (mean) | Maximum Range of Motion | | Character of Motion | Intensity | Remarks | |
|-----|--------------|------|-------|------|------|------|------|------|------|------|------|------|------|---|----------------------------|--------|---------------------------|-----------|---------|--------|
| | | E | W | N | S | E | W | N | S | E | W | N | S | | E | W | N | S | | |
| 56 | Apr. 12 | h 8 | m 41 | s 46 | | m 41 | s 47 | m 49 | s 16 | m 49 | s 18 | m 56 | s 30 | m 56 | s 29 | m 80.6 | mm 0.28 | mm 1.85 | Slow | Feeble |
| 57 | | 4 14 | 38 42 | | | — | — | 39 | 42 | — | — | — | — | — | — | 6.3 | 0.01 | — | " | " |
| 58 | | 17 | 36 | 53 | ? | — | — | 37 | 16 | 37 | 17 | — | — | — | — | 3.3 | 0.02 | 0.01 | " | " |
| 59 | | 6 18 | 55 29 | ? | — | 56 | 14 | 56 | 14 | — | — | — | — | — | — | 5.5 | 0.04 | 0.05 | " | " |
| 60 | | 23 | 51 | 48 | — | — | 53 | 07 | — | — | 54 | 28 | — | — | ? | 0.02 | — | " | " | |
| 61 | 23 | 4 | ? | — | — | 41 | 37 | — | — | — | — | — | — | — | — | ? | 0.01 | — | " | " |
| 62 | 26 | 18 | ? | — | — | 26 | 50 | — | — | — | — | — | — | — | — | ? | 0.00 | — | " | " |
| 63 | 27 | 14 | 18 | 09 | — | — | 18 | 40 | — | — | — | — | — | — | — | 4.8 | 0.01 | — | " | " |
| 64 | 28 | 11 | ? | — | — | 33 | 23 | — | — | — | — | — | — | — | — | ? | 0.00 | — | " | " |
| 65 | 30 | 0 | 35 | 00 | ? | — | 35 | 24 | ? | — | — | — | — | — | — | 5.4 | 0.02 | ? | " | " |
| 66 | May 30 | 17 | 37 | 02 | — | — | 37 | 41 | — | — | — | — | — | — | — | 4.4 | 0.02 | — | " | " |
| 67 | | 23 | 34 | 51 | 34 | 53 | 35 | 09 | 35 | 12 | — | — | — | — | — | 3.0 | 0.04 | 0.02 | " | " |
| 68 | | 17 | 34 | 56 | ? | — | 36 | 12 | 36 | 12 | — | — | — | — | — | 3.3 | 0.02 | 0.01 | " | " |
| 69 | | 6 7 | 13 | 31 | ? | — | 14 | 23 | 14 | 26 | — | — | — | — | — | ? | 0.07 | 0.20 | " | " |
| 70 | | 22 | 13 | 22 | 13 | 25 | 13 | 39 | 13 | 40 | — | — | — | — | — | 3.5 | 0.02 | 0.01 | " | " |
| 71 | 9 | 5 | 11 | 05 | — | — | 11 | 43 | — | — | — | — | — | — | — | 2.8 | 0.01 | — | " | " |
| 72 | 11 | 8 | ? | — | — | 49 | 43 | — | — | — | — | — | — | — | — | ? | 0.01 | — | " | " |
| 73 | 11 | 12 | 35 | 00 | 35 | 02 | 35 | 22 | 35 | 23 | — | — | — | — | — | 3.4 | 0.03 | 0.03 | " | " |
| 74 | 12 | 13 | 18 | 41 | — | — | 18 | 53 | — | — | — | — | — | — | — | 2.6 | 0.01 | — | " | " |
| 75 | 13 | 5 | ? | — | — | 01 | 53 | — | — | — | — | — | — | — | — | ? | 0.01 | — | " | " |
| 76 | 14 | 22 | 41 | 49 | — | — | 42 | 09 | — | — | — | — | — | — | — | 3.9 | 0.02 | — | " | " |
| 77 | 18 | 0 | ? | — | — | 19 | 36 | — | — | — | — | — | — | — | — | ? | 0.00 | — | " | " |
| 78 | 18 | 1 | 24 | 25 | ? | — | 24 | 59 | 25 | 01 | — | — | — | — | — | 6.9 | 0.06 | 0.07 | " | " |
| 79 | 18 | 5 | 47 | 16 | — | — | 47 | 34 | — | — | — | — | — | — | — | 2.8 | 0.01 | — | " | " |
| 80 | 20 | 7 | 09 | 23 | 09 | 24 | — | — | — | — | — | — | — | — | — | ? | 0.02 | 0.01 | " | " |
| 81 | 20 | 7 | 14 | 37 | 14.7 | — | — | — | — | — | — | — | — | — | — | ? | 0.01 | — | " | " |
| 82 | 20 | 11 | 49 | 00 | — | — | 49 | 39 | — | — | — | — | — | — | — | 3.2 | 0.01 | — | " | " |
| 83 | 22 | 7 | 39 | 45 | 39 | 45 | 40 | 34 | 40 | 35 | — | — | — | — | — | ? | 0.07 | 0.05 | " | " |
| 84 | 22 | 7 | 46 | 22 | ? | — | 47 | 13 | 47 | 14 | — | — | — | — | — | 9.5 | 0.08 | 0.05 | " | " |
| 85 | 22 | 16 | 27 | 07 | — | — | 27 | 51 | — | — | — | — | — | — | — | 6.0 | 0.03 | — | " | " |
| 86 | 22 | 22 | 11 | 15 | ? | — | 12 | 16 | 12 | 16 | — | — | — | — | — | 5.4 | 0.05 | 0.03 | " | " |
| 87 | 23 | 4 | ? | — | — | 09 | 38 | — | — | — | — | — | — | — | — | ? | 0.01 | — | " | " |
| 88 | 25 | 23 | ? | — | — | 40 | 14 | — | — | — | — | — | — | — | — | ? | 0.00 | — | " | " |
| 89 | 26 | 19 | 45 | 40 | 45 | 41 | 46 | 08 | 46 | 07 | — | — | — | — | — | 18.7 | 1.06 | 1.20 | Quick | Weak |
| 90 | 23 | 21 | 12 | 45 | — | — | 13 | 08 | — | — | — | — | — | — | — | 3.6 | 0.01 | — | Slow | Felt |
| 91 | June 31 | 11 | 29 | 46 | — | — | 30 | 22 | — | — | — | — | — | — | — | 2.7 | 0.00 | — | " | " |
| 92 | | 4 | 56 | 07 | — | — | — | — | — | — | — | — | — | — | — | 4.3 | 0.01 | — | " | " |
| 93 | | 4 | 56 | 58 | — | — | — | — | — | — | — | — | — | — | — | ? | 0.01 | — | " | " |
| 94 | | 0 | 15 | 13 | ? | — | 16 | 56 | ? | — | — | — | — | — | — | 11.5 | 0.04 | 0.04 | " | " |
| 95 | | 15 | 08 | 22 | 08 | 22 | 09 | 06 | 09 | 05 | — | — | — | — | — | 10.1 | 0.11 | 0.10 | " | " |
| 96 | 5 | 9 | 12 | 31 | — | — | 13 | 25 | — | — | — | — | — | — | — | 7.5 | 0.01 | — | " | " |
| 97 | 6 | 18 | 21 | 13 | 21 | 14 | 22 | 04 | 22 | 05 | — | — | — | — | — | 8.9 | 0.10 | 0.10 | " | " |
| 98 | 10 | 1 | ? | — | — | 09 | 18 | — | — | — | — | — | — | — | — | ? | 0.00 | — | " | " |
| 99 | 12 | 2 | 11 | 15 | — | — | 11 | 45 | — | — | — | — | — | — | — | 4.3 | 0.01 | — | " | " |
| 100 | 12 | 14 | 41 | 23 | — | — | 41 | 38 | — | — | — | — | — | — | — | 2.2 | ? | — | " | " |
| 101 | 14 | 23 | 33 | 06 | 33 | 05 | 33 | 30 | 33 | 30 | — | — | — | — | — | 11.1 | ? | 0.91 | Quick | Weak |
| 102 | 14 | 23 | 57 | 53 | ? | — | 53 | 19 | 18 | 17 | — | — | — | — | — | 4.9 | 0.03 | 0.02 | Slow | Feeble |
| 103 | 15 | 0 | 40 | 00 | ? | — | 41 | 05 | 41 | 07 | — | — | — | — | — | 6.0 | 0.02 | 0.0 | | |

TABLE A.
(Earthquakes)

| No. | Date 1926 | P | | | S | | | L | | | Duration of Total Earthquake (Mean) | Maximum Range of Motion | | Character of Motion | Intensity | Remarks | | |
|-----|--------------|----|----|----|----|----|----|----|-----|----|---|----------------------------|------|---------------------------|-----------|---------|--------|------|
| | | E | W | N | S | E | W | N | S | E | W | E | W | N | S | | | |
| 111 | June 24 | h | m | 51 | | m | s | m | s | m | s | m | mm | mm | — | Slow | Feeble | |
| 112 | | 11 | 46 | 51 | — | — | — | 47 | 10 | — | — | 3.6 | 0.03 | — | — | “ | “ | |
| 113 | | 14 | 51 | 28 | — | — | — | 51 | 47 | — | — | 4.1 | 0.01 | — | — | “ | “ | |
| 114 | | 17 | 42 | 30 | — | — | — | 42 | 52 | — | — | 2.5 | 0.01 | — | — | “ | “ | |
| 115 | | 21 | 25 | 02 | — | — | — | 25 | 21 | — | — | 5.9 | 0.00 | — | — | “ | “ | |
| 116 | 25 | 21 | 31 | 22 | — | — | — | 31 | 42 | — | — | 8.3 | 0.00 | — | — | “ | “ | |
| 117 | | 14 | ? | 19 | — | — | — | 07 | 53 | — | — | ? | 0.00 | — | — | “ | “ | |
| 118 | | 1 | 54 | 19 | — | — | — | 54 | 27 | — | — | 2.1 | 0.02 | — | — | “ | “ | |
| 119 | | 19 | 58 | 44 | ? | ? | ? | 59 | 59 | 60 | 00 | ? | 0.06 | 0.06 | — | “ | “ | |
| 120 | | 20 | ? | ? | ? | ? | ? | 09 | 04 | 09 | 02 | ? | 0.15 | 0.24 | — | “ | “ | |
| 121 | July 1 | 22 | 40 | 44 | ? | ? | ? | 41 | 41 | 41 | 41 | 8.0 | 0.04 | 0.04 | — | “ | “ | |
| 122 | | 9 | 51 | 43 | — | — | — | 52 | 21 | — | — | 3.4 | 0.01 | — | — | “ | “ | |
| 123 | | 4 | 44 | 03 | — | — | — | 44 | 56 | — | — | 5.0 | 0.02 | — | — | “ | “ | |
| 124 | | 14 | 30 | 51 | 30 | 51 | 30 | 33 | 55 | 34 | 01 | 35.7 | 0.33 | 0.67 | — | “ | “ | |
| 125 | | 10 | 58 | 54 | 53 | 57 | 65 | 03 | 03 | 65 | 03 | 70.9 | ? | 0.05 | — | “ | “ | |
| 126 | 10 | 23 | 02 | 14 | 02 | 16 | 02 | 49 | 51 | — | — | 11.4 | 0.35 | 0.46 | — | “ | “ | |
| 127 | | 9 | 25 | 33 | ? | — | 25 | 44 | 45 | — | — | 3.8 | 0.08 | 0.09 | — | “ | “ | |
| 128 | | 10 | 01 | 51 | ? | — | 02 | 14 | 14 | — | — | 5.2 | 0.03 | 0.02 | — | “ | “ | |
| 129 | | 19 | 30 | 48 | ? | — | 31 | 20 | 23 | — | — | 4.9 | 0.02 | 0.04 | — | “ | “ | |
| 130 | | 10 | 56 | 56 | — | — | 57 | 33 | — | — | — | 2.7 | 0.00 | — | — | “ | “ | |
| 131 | 22 | 17 | 34 | 19 | ? | — | 34 | 45 | 47 | — | — | 6.9 | 0.05 | 0.05 | — | “ | “ | |
| 132 | | 6 | 25 | 10 | — | — | 25 | 34 | — | — | — | 2.8 | 0.01 | — | — | “ | “ | |
| 133 | | 18 | 48 | 27 | ? | — | 48 | 58 | 60 | — | — | 7.2 | 0.02 | 0.02 | — | “ | “ | |
| 134 | | 18 | 56 | 18 | 56 | 18 | 57 | 23 | 25 | — | — | 9.4 | 0.14 | 0.11 | — | “ | “ | |
| 135 | | 13 | 13 | 03 | — | -- | 13 | 19 | — | — | — | 3.0 | 0.01 | — | — | “ | “ | |
| 136 | Aug. 23 | 22 | 04 | 32 | ? | — | 06 | 36 | 6.6 | — | — | 6.0 | 0.02 | 0.02 | — | “ | “ | |
| 137 | | 9 | 17 | 56 | — | -- | 18 | 17 | — | — | — | 3.9 | 0.01 | — | — | “ | “ | |
| 138 | | 5 | 07 | 37 | 07 | 38 | 13 | 47 | 49 | 43 | 19 | 43 | 38.5 | ? | 0.08 | — | “ | “ |
| 139 | | 18 | 01 | 23 | — | — | 01 | 32 | — | — | — | 2.4 | 0.02 | — | — | “ | “ | |
| 140 | | 3 | 46 | 50 | 46 | 50 | 51 | 00 | 00 | 55 | 11 | 55 | 10 | ? | 0.01 | 0.09 | — | “ |
| 141 | 3 | 9 | 27 | 11 | 27 | 11 | 27 | 54 | 55 | — | — | 12.9 | 0.48 | 0.60 | — | “ | “ | |
| 142 | | 10 | 40 | 09 | 40 | 08 | 46 | 45 | 44 | ? | 53 | 15 | ? | 0.01 | 0.05 | — | “ | “ |
| 143 | | 6 | 15 | 48 | 15 | 48 | 16 | 43 | 42 | — | — | 11.6 | 0.16 | 0.09 | — | “ | “ | |
| 144 | | 7 | 12 | 17 | — | — | 12 | 47 | — | — | — | 3.2 | 0.01 | — | — | “ | “ | |
| 145 | | 9 | 03 | 07 | ? | — | 03 | 26 | 27 | — | — | 3.4 | 0.02 | 0.02 | — | “ | “ | |
| 146 | 20 | 12 | 44 | 22 | ? | — | 45 | 20 | 21 | — | — | 4.0 | 0.04 | 0.02 | — | “ | “ | |
| 147 | | 8 | 06 | 55 | — | — | 07 | 37 | — | — | — | 4.8 | 0.02 | — | — | “ | “ | |
| 148 | | 15 | ? | 42 | 04 | 43 | ? | ? | ? | — | — | ? | 0.01 | — | — | “ | “ | |
| 149 | | 6 | 04 | 42 | 04 | 43 | ? | ? | ? | 19 | 34 | ? | ? | 0.06 | — | “ | “ | |
| 150 | | 11 | ? | — | — | — | 50 | 45 | — | — | — | ? | 0.01 | — | — | “ | “ | |
| 151 | Sept. 2 | 2 | ? | 36 | 06 | 44 | — | — | 15 | 37 | — | — | ? | — | 0.03 | — | “ | “ |
| 152 | | 15 | 30 | 36 | ? | — | 31 | 22 | 22 | — | — | ? | 0.08 | 0.08 | — | “ | “ | |
| 153 | | 15 | 38 | 02 | 38 | 03 | 33 | 44 | 45 | — | — | 32.3 | 1.18 | 1.60 | Quick | Weak | Felt | |
| 154 | | 12 | 31 | 13 | 31 | 13 | 37 | 52 | 52 | ? | 42 | 38 | ? | ? | 0.05 | Slow | Feeble | Felt |
| 155 | | 5 | 32 | 45 | — | — | 33 | 04 | — | — | — | 4.0 | 0.02 | — | — | “ | “ | |
| 156 | 10 | 10 | 43 | 59 | 44 | 01 | 51 | 38 | 33 | ? | — | 73.8 | ? | 0.12 | — | “ | “ | |
| 157 | | 15 | 48 | 53 | 48 | 55 | 53 | 02 | 02 | ? | 57 | 03 | ? | 0.03 | — | “ | “ | |
| 158 | | 18 | 03 | 19 | 08 | 19 | 15 | 41 | 41 | 22 | 59 | 61.5 | 0.04 | 0.35 | — | “ | “ | |
| 159 | | 20 | 49 | 54 | — | — | 50 | 21 | — | — | — | 4.0 | 0.01 | — | — | “ | “ | |
| 160 | | 16 | 17 | 24 | ? | — | 17 | 40 | ? | — | — | 6.7 | 0.82 | 0.80 | Quick | Weak | Felt | |
| 161 | 24 | ? | 43 | 03 | 43 | 04 | ? | 43 | 13 | — | — | ? | 0.02 | 0.02 | Slow | Feeble | Felt | |
| 162 | | 30 | 14 | 43 | 01 | 03 | 59 | 04 | 42 | 04 | 40 | 5.7 | 0.36 | 0.47 | Quick | Weak | Felt | |
| 163 | | 2 | 19 | 04 | 01 | 03 | 59 | 04 | 42 | 04 | 40 | 14.6 | | | | | | |

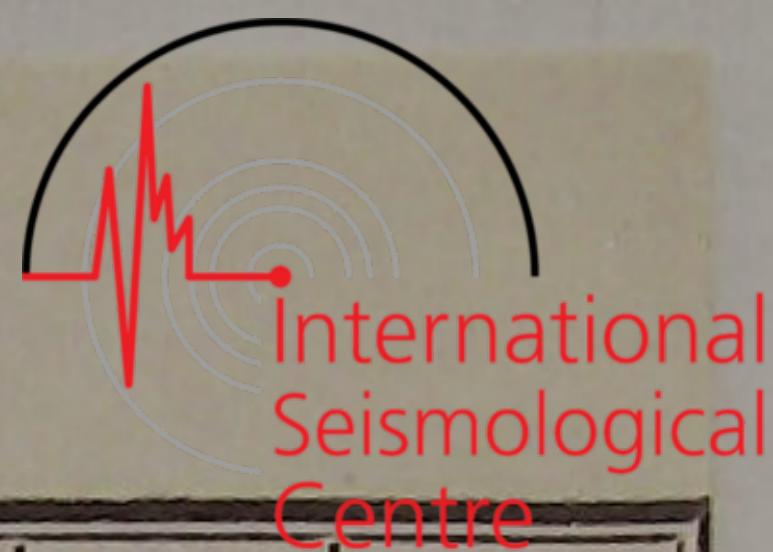
TABLE A.

(Earthquakes)



| No. | Date 1920 | P | | | S | | | L | | | Duration of Total Earthquake (mean) | Maximum Range of Motion | | Character of Motion | Intensity | Remarks | | |
|-----|--------------|-------|------|------|------|------|------|------|------|------|---|----------------------------|---------|---------------------------|-----------|---------|---|---|
| | | E | W | N S | E | W | N S | E | W | N S | | E | W | N S | | | | |
| 166 | Oct. 4 | h 6 | m 02 | s 17 | m 02 | s 19 | m 02 | s 49 | m 02 | s 49 | m 7.7 | mm 0.11 | mm 0.16 | Slow | Feeble | Felt | | |
| 167 | | 13 13 | 53 | 11 | — | — | 53 | 37 | — | — | 3.9 | 0.03 | — | “ | “ | | | |
| 168 | | 13 | 6 | 09 | 53 | — | — | 08 | 31 | — | — | ? ? | — | “ | “ | | | |
| 169 | | 13 | 19 | 14 | 43 | — | — | 20 | 03 | — | — | ? ? | — | “ | “ | | | |
| 170 | | 15 | 23 | 44 | 21 | ? | — | 44 | 25 | 44 | 24 | 4.1 | 0.10 | 0.06 | Quick | Weak | | |
| 171 | 17 | 16 | 42 | 49 | — | — | 43 | 12 | — | — | 1.4 | 0.01 | — | Slow | Feeble | Felt | | |
| 172 | 19 | 0 | 30 | 46 | 30 | 47 | 31 | 20 | 31 | 19 | 22.3 | 0.28 | 0.30 | Quick | Weak | | | |
| 173 | 21 | 7 | 24 | 28 | — | — | 24 | 42 | — | — | 2.8 | 0.01 | — | Slow | Feeble | | | |
| 174 | 23 | 13 | 34 | 17 | — | — | 34 | 35 | — | — | 1.9 | 0.01 | — | “ | “ | | | |
| 175 | 24 | 16 | ? | — | — | — | 39 | 37 | — | — | ? | 0.00 | — | “ | “ | | | |
| 176 | 26 | 0 | 41 | 15 | — | — | 41 | 34 | — | — | 2.7 | 0.01 | — | “ | “ | Felt | | |
| 177 | 26 | 3 | 52 | 35 | 52 | 32 | 58 | 44 | 58 | 45 | 65.00 | ? | 0.12 | 7.72 | “ | | | |
| 178 | 26 | 6 | 19 | 27 | 19 | 28 | 25 | 36 | 25 | 34 | 31.40 | 31 | 41 | 0.01 | 0.07 | | | |
| 179 | 28 | 10 | 46 | 12 | — | — | 46 | 43 | — | — | 3.5 | 0.01 | — | “ | “ | | | |
| 180 | 29 | 19 | ? | — | — | — | 45 | 26 | — | — | ? | 0.01 | — | “ | “ | | | |
| 181 | Nov. 30 | 13 | 47 | 34 | — | — | 52 | 30 | — | — | ? | ? | — | “ | “ | Felt | | |
| 182 | | 19 | 49 | 03 | — | — | 50 | 57 | — | — | ? | 0.01 | — | “ | “ | | | |
| 183 | | 21 | 12 | 36 | 12 | 35 | 14 | 26 | 14 | 28 | — | ? | 0.03 | 0.01 | “ | | | |
| 184 | | 23 | 01 | 55 | — | — | 03 | 47 | — | — | — | ? | 0.01 | — | “ | | | |
| 185 | | 15 | ? | — | — | — | 07 | 00 | — | — | — | ? | 0.01 | — | “ | | | |
| 186 | 5 | 19 | 05 | 50 | ? | — | 06 | 19 | 06 | 21 | — | — | 8.0 | 0.05 | 0.05 | “ | “ | |
| 187 | 6 | 2 | 48 | 03 | — | — | 48 | 35 | — | — | — | — | 5.9 | 0.01 | — | “ | “ | |
| 188 | 6 | 5 | 26 | 05 | — | — | 26 | 48 | — | — | — | — | 6.6 | 0.02 | — | “ | “ | |
| 189 | 6 | 13 | ? | — | — | — | 22 | 33 | — | — | — | — | ? | 0.01 | — | “ | “ | |
| 190 | 6 | 17 | 31 | 48 | — | — | 32 | 46 | — | — | — | — | 5.3 | 0.02 | — | “ | “ | |
| 191 | 11 | 3 | 02 | 12 | 02 | 11 | 02 | 42 | 02 | 42 | — | — | 20.4 | 0.44 | 0.41 | “ | “ | |
| 192 | 11 | 7 | 12 | 25 | ? | — | 13 | 23 | 13 | 26 | — | — | 6.5 | 0.04 | 0.01 | “ | “ | |
| 193 | 11 | 11 | ? | — | — | — | 20 | 55 | — | — | — | — | ? | 0.00 | — | “ | “ | |
| 194 | 11 | 18 | ? | — | — | — | 04 | 23 | — | — | — | — | ? | 0.00 | — | “ | “ | |
| 195 | 12 | 8 | ? | — | — | — | 49 | 45 | — | — | — | — | ? | 0.00 | — | “ | “ | |
| 196 | 12 | 14 | 40 | 59 | — | — | 41 | 23 | — | — | — | — | 3.3 | 0.01 | — | “ | “ | |
| 197 | 19 | 8 | 03 | 29 | ? | — | 04 | 14 | 04 | 13 | — | — | 5.7 | 0.04 | 0.02 | “ | “ | |
| 198 | 19 | 11 | 37 | 41 | ? | — | 38 | 21 | 38 | 22 | — | — | 4.4 | 0.04 | 0.01 | “ | “ | |
| 199 | 20 | 22 | 42 | 40 | 42 | 39 | 43 | 07 | 43 | 08 | — | — | 2.8 | 0.03 | 0.02 | “ | “ | |
| 200 | 21 | 7 | 23 | 39 | ? | — | 24 | 06 | 24 | 03 | — | — | 3.8 | 0.04 | 0.01 | “ | “ | |
| 201 | 22 | 14 | 11 | 49 | — | — | 12 | 10 | — | — | — | — | 3.6 | 0.01 | — | “ | “ | |
| 202 | 23 | 0 | 23 | 18 | ? | — | 25 | 28 | 25 | 29 | — | — | 9.6 | 0.02 | 0.02 | “ | “ | |
| 203 | 23 | 18 | 57 | 57 | ? | — | 58 | 13 | 58 | 13 | — | — | 4.2 | 0.02 | 0.02 | “ | “ | |
| 204 | 27 | 3 | 26 | 47 | 26 | 43 | 26 | 58 | 26 | 58 | — | — | 3.8 | 0.03 | 0.03 | “ | “ | |
| 205 | 27 | 11 | 21 | 27 | ? | — | 21 | 59 | 22 | 02 | — | — | 7.5 | 0.02 | 0.02 | “ | “ | |
| 206 | Dec. 27 | 13 | ? | — | 37 | 48 | — | — | 44 | 06 | — | — | ? | — | 0.32 | “ | “ | |
| 207 | | 13 | 47 | 08 | — | — | 47 | 27 | — | — | — | — | 2.3 | 0.01 | — | “ | “ | |
| 208 | | 1 | 13 | 03 | 58 | 04 | 02 | 04 | 44 | 04 | 44 | — | — | 6.0 | 0.02 | 0.02 | “ | “ |
| 209 | | 1 | 21 | 57 | 23 | — | — | 57 | 58 | — | — | — | — | 3.7 | 0.01 | — | “ | “ |
| 210 | | 2 | 22 | 02 | 55 | — | — | 03 | 22 | — | — | — | — | 4.3 | 0.01 | — | “ | “ |
| 211 | 5 | 5 | 54 | 37 | 54 | 36 | 56 | 19 | 56 | 20 | — | — | 6.8 | 0.03 | 0.04 | “ | “ | |
| 212 | 5 | 19 | 41 | 57 | ? | — | 42 | 26 | 42 | 24 | — | — | 7.3 | 0.01 | 0.01 | “ | “ | |
| 213 | 5 | 21 | 13 | 05 | ? | — | 13 | 32 | 13 | 33 | — | — | 7.7 | 0.06 | 0.06 | “ | “ | |
| 214 | 6 | 0 | 11 | 11 | — | — | 12 | 02 | — | — | — | — | 3.6 | 0.01 | — | “ | “ | |
| 215 | 6 | 0 | 41 | 52 | 41 | 53 | 42 | 25 | 42 | 25 | — | — | 6.0 | 0.04 | 0.04 | “ | “ | |
| 216 | 6 | 20 | 16 | 09 | 16 | 11 | 16 | 35 | 16 | 34 | — | — | 3.3 | 0.02 | 0.01 | “ | “ | |
| 217 | 9 | 3 | ? | — | — | — | 41 | 18 | — | — | — | — | ? | 0.01 | — | “ | “ | |
| 218 | 9 | 8 | 05 | 21 | 05 | 21 | 05 | 33 | 05 | 33 | — | — | 5.4 | 0.13 | 0.06 | “ | “ | |
| 219 | 12 | 22 | 02 | 04 | 02 | 03 | 02 | 49 | 02 | 48 | — | — | 9.5 | 0 | | | | |

TABLE A.
(Earthquakes)



| No. | Date 1926 | P | | | S | | | L | | | Duration of Total Earthquake (Mean) | Maximum Range of Motion | | Character of Motion | Intensity | Remarks | |
|-----|--------------|------|------|------|-----|-----|------|------|-----|-----|---|----------------------------|------|---------------------------|-----------|---------|--------|
| | | E | W | N | S | E | W | N | S | E | W | E | W | N | S | | |
| 221 | Dec. 16 | h 19 | m 12 | s 38 | m — | s — | m 12 | s 57 | m — | m — | s — | 3.5 | mm | 0.01 | — | Slow | Feeble |
| 222 | 16 | 23 | 39 | 28 | — | — | 39 | 51 | — | — | — | 2.4 | 0.01 | — | “ | “ | |
| 223 | 17 | 5 | 47 | 15 | ? | — | 47 | 33 | 47 | 30 | — | 2.7 | 0.01 | 0.01 | “ | “ | |
| 224 | 17 | 6 | 06 | 06 | 06 | 09 | 06 | 40 | 06 | 39 | — | 5.0 | 0.04 | 0.05 | “ | “ | |
| 225 | 18 | 9 | 43 | 49 | 43 | 48 | 44 | 10 | 44 | 10 | — | 3.6 | 0.01 | 0.01 | “ | “ | |
| 226 | 18 | 9 | 47 | 43 | 47 | 41 | 48 | 07 | 48 | 06 | — | 3.6 | 0.02 | 0.03 | “ | “ | |
| 227 | 19 | 17 | 47 | 05 | — | — | 47 | 26 | — | — | — | 2.6 | 0.01 | — | “ | “ | |
| 228 | 22 | 23 | 11 | 56 | 11 | 57 | 13 | 04 | 13 | 04 | — | 6.0 | 0.02 | 0.03 | “ | “ | |
| 229 | 23 | 12 | 08 | 06 | ? | — | 08 | 44 | 08 | 44 | — | 4.4 | 0.10 | 0.12 | Quick | Weak | |
| 230 | 28 | 15 | 52 | 15 | — | — | 52 | 30 | — | — | — | 3.6 | 0.00 | — | Slow | Feeble | Felt |

TABLE B.
(Pulsatory Oscillations EW Component.)



| Beginning | | | Ending | | | Maximum | | | | | | Double Amplitude |
|-----------|-----|------|-----------|-----|------|---------|------|---|-----|------|--|---------------------|
| Date | | | Date | | | Date | | | | | | |
| Month | Day | Hour | Month | Day | Hour | Day | Hour | — | Day | Hour | | |
| January | 2 | 7 | January | 5 | 10 | 2 | 22 | | 3 | 2 | | 8 ^{ms} μ |
| | 9 | 10 | | 10 | 22 | 9 | 20 | | 9 | 23 | | 5 |
| | 13 | 17 | | 14 | 15 | 13 | 21 | | 13 | 24 | | 4 |
| | 19 | 13 | | 23 | 18 | 20 | 13 | | 21 | 2 | | 6 |
| | 28 | 5 | | 29 | 15 | 28 | 22 | | 29 | 1 | | 8 |
| February | 5 | 1 | February | 6 | 5 | 5 | 15 | | 5 | 20 | | 4 |
| | 10 | 15 | | 11 | 23 | 10 | 21 | | 11 | 2 | | 14 |
| | 15 | 7 | | 18 | 3 | 15 | 14 | | 15 | 18 | | 12 |
| | 23 | 6 | | 26 | 20 | 23 | 18 | | 23 | 23 | | 9 |
| March | 10 | 23 | March | 12 | 20 | 11 | 18 | | 11 | 21 | | 15 |
| | 14 | 17 | | 16 | 7 | 15 | 9 | | 15 | 15 | | 10 |
| | 27 | 9 | | 28 | 23 | 27 | 21 | | 28 | 1 | | 5 |
| April | 30 | 10 | April | 31 | 6 | 30 | 15 | | 30 | 18 | | 3 |
| | 4 | 22 | | 5 | 22 | 5 | 12 | | 5 | 16 | | 4 |
| | 8 | 6 | | 8 | 21 | — | — | | — | — | | 4 |
| May | 14 | 14 | May | 15 | 2 | 14 | 18 | | 14 | 20 | | 4 |
| | 19 | 13 | | 19 | 22 | 19 | 10 | | 19 | 14 | | 5 |
| | 21 | 5 | | 23 | 2 | 21 | 12 | | 21 | 16 | | 7 |
| | 27 | 10 | | 28 | 2 | 27 | 11 | | 27 | 14 | | 4 |
| June | 7 | 9 | June | 8 | 20 | 8 | 5 | | 8 | 9 | | 5 |
| | 22 | 3 | | 25 | 11 | 24 | 9 | | 24 | 15 | | 4 |
| | 14 | 12 | | 16 | 18 | 15 | 13 | | 15 | 20 | | 10 |
| | 17 | 15 | | 18 | 17 | 17 | 17 | | 17 | 22 | | 2 |
| August | 4 | 19 | September | 6 | 3 | 5 | 8 | | 5 | 15 | | 25 |
| | 17 | 22 | | 19 | 8 | 18 | 10 | | 18 | 15 | | 13 |
| September | 1 | 15 | October | 2 | 21 | 2 | 14 | | 2 | 18 | | 5 |
| | 6 | 21 | | 7 | 6 | 7 | 2 | | 7 | 5 | | 9 |
| | 13 | 9 | | 14 | 9 | 13 | 11 | | 13 | 15 | | 6 |
| | 29 | 4 | | 30 | 23 | 29 | 15 | | 29 | 21 | | 3 |
| October | 5 | 14 | November | 7 | 8 | 6 | 19 | | 6 | 21 | | 4 |
| | 14 | 7 | | 16 | 10 | 14 | 12 | | 14 | 20 | | 11 |
| November | 26 | 4 | December | 29 | 8 | 26 | 13 | | 26 | 20 | | 8 |
| | 2 | 5 | | 5 | 8 | 2 | 13 | | 2 | 20 | | 10 |
| | 8 | 9 | | 9 | 7 | 8 | 16 | | 8 | 19 | | 11 |
| | 9 | 18 | | 11 | 22 | 11 | 2 | | 11 | 7 | | 4 |
| | 18 | 4 | | 21 | 9 | 20 | 15 | | 20 | 22 | | 5 |

The time adopted in this table is Japanese Central Standard Time.