

5 19/1

ŌSAKA

SEISMOLOGICAL BULLETIN

of the Ōsaka Meteorological Observatory, Nippon (Japan)

$\phi = 34^{\circ} 39' N.$ $\lambda = 135^{\circ} 32' E.$
 [Elevation = 5.2m]



From July to Sept. 26 00 (19 40)

| Date from which Constants Apply | Instrument. | T ₀ | r/T ₀ ² | ε | V |
|---------------------------------|----------------|----------------|-------------------------------|-----|----|
| Jun. 6th, 2600 (1940) | Wiechert's : N | 5.7 | 0.012 | 5.0 | 80 |
| | : E | 5.6 | 0.012 | 5.6 | 78 |
| | : Z | 5.2 | 0.013 | 3.7 | 72 |
| Jul. 3rd, 2600 (1940) | " : N | 5.6 | 0.012 | 5.0 | 82 |
| | : E | 5.6 | 0.015 | 5.3 | 81 |
| | : Z | 5.3 | 0.016 | 3.7 | 68 |
| Aug. 6th, 2600 (1940) | " : N | 5.6 | 0.009 | 5.4 | 88 |
| | : E | 5.5 | 0.016 | 5.9 | 82 |
| | : Z | 5.3 | 0.016 | 3.7 | 68 |

| Date | Phase | Time (G. M. T.) h. m. s. | Amplitude (μ) | Period (s) | Remarks |
|--------|-------|-----------------------------|------------------|---------------|--|
| Jul. 2 | P | 1 37 53.2 | | | NE off Hatidyozima |
| | S | 38 59.2 | | | |
| | MN | 40 41.4 | -47 | 5.1 | |
| | ME | 40 46.8 | -30 | 5.1 | |
| | NZ | 40 37.7 | ± 10 | 3.3 | |
| | F | 2 5 - | | | |
| 4 | P | 9 3 5.9 | | | Remarkable earthquake Deep, Focal depth 200 km. 144.5° E, 44.3° N |
| | S | 5 12.8 | +10 | 4.0 | |
| | MN | 6 58.6 | -11 | 2.4 | |
| | ME | 5 56.4 | ± 6 | 2.0 | |
| | MZ | 6 25.4 | | | |
| | F | 9 20 - | | | |
| 5 | P | 16 47 17.2 | | | Wakayama |
| | S | 47 25.6 | -131 | 2.0 | |
| | MN | 47 45.6 | -127 | 1.0 | |
| | ME | 47 56.6 | + 10 | 1.7 | |
| | MZ | 47 54.8 | | | |
| | F | 16 54 - | | | |
| 5 | P | 21 1 23.0 | | | E off Kinkazan 142.7° E, 38.0° N |
| | S | 2 39.7 | +20 | 4.0 | |
| | MN | 3 58.1 | -16 | 4.4 | |
| | ME | 3 33.9 | ± 6 | 3.3 | |
| | MZ | 3 49.8 | | | |
| | F | 21 13 - | | | |

ŌSAKA

SEISMOLOGICAL BULLETIN



| Date | Phase | Time (G. M. T.) | | | Amplitude (μ) | Period (s) | Remarks |
|--------|---------|-----------------|----|------|---------------------|------------|---|
| | | h. | m. | s. | | | |
| Jul. 8 | P | 15 | 18 | 46.0 | | | Epicenter, 140.3° E, 28.0° N WNW off Titizima Deep earthquake depth: 400 km |
| | S | | 20 | 19.7 | | | |
| | MN | | 21 | 42.5 | | | |
| | ME | | 21 | 24.1 | + 19 | 4.6 | |
| | MZ | | 20 | 30.9 | - 15 | 4.0 | |
| 10 | F | 15 | 32 | - | ± 6 | 3.7 | |
| | P | 5 | 52 | 20.2 | | | Remarkable earthquake Epicenter, 130.6° E, 44.8° N Deep earthquake depth: 560 km |
| | S | | 54 | 20.3 | | | |
| | MN | | 56 | 20.7 | | | |
| | ME | | 55 | 24.7 | -204 | 4.0 | |
| | MZ | | 55 | 1.2 | -247 | 4.0 | |
| | F | | | | -136 | 2.2 | |
| | | | | | | | |
| 10 | OP | 6 | 1 | 47.0 | | | to be continued to next earthquake. Epicenter, ditto |
| | S | | 3 | 48.7 | | | |
| | MN | | 4 | 6.9 | | | |
| | ME | | 3 | 54.4 | - 54 | 4.3 | |
| | MZ | | 4 | 34.5 | - 72 | 3.8 | |
| | F | 6 | 20 | - | - 24 | 3.0 | |
| 13 | OP | 17 | 7 | 19.8 | | | Distant earthquake |
| | PP | | 8 | 48.5 | | | |
| | PPP | | 11 | 32.4 | | | |
| | MN | | 12 | 43.6 | - 46 | 5.1 | |
| | ME | | 11 | 24.2 | + 33 | 4.6 | |
| | MZ | | 11 | 5.6 | - 13 | 2.0 | |
| | ScPcS | | 14 | 14.4 | | | |
| | ScPcPcS | | 15 | 17.5 | | | |
| F | 17 | 25 | - | | | | |
| 14 | P | 15 | 32 | 44.8 | | | Moderate earthquake Epicenter, 140.0° E, 36.1° N Neighbourhood of Mizukaido, Ibaragiken |
| | S | | 33 | 34.7 | | | |
| | MN | | 34 | 22.5 | +208 | 3.1 | |
| | ME | | 34 | 9.1 | +214 | 3.6 | |
| | MZ | | 34 | 34.9 | -150 | 2.6 | |
| | F | 15 | 50 | - | | | |
| 15 | P | 8 | 36 | 37.0 | | | Neighbourhood of Hatidyojima |
| | S | | 37 | 29.8 | ± 15 | 4.4 | |
| | MN | | 41 | 56.9 | ± 17 | 4.4 | |
| | ME | | 40 | 2.4 | ± 2 | 3.8 | |
| | MZ | | 38 | 46.0 | | | |
| | F | 8 | 51 | - | | | |
| 21 | P | 15 | 45 | 20.4 | | | Distant earthquake |
| | S | | 51 | 9.2 | ± 16 | 4.3 | |
| | MN | | 47 | 15.8 | ± 21 | 4.1 | |
| | ME | | 47 | 50.1 | ± 5 | 3.3 | |
| | MZ | | 47 | 15.0 | | | |
| | F | 16 | 15 | - | | | |

ŌSAKA

SEISMOLOGICAL BULLETIN



| Date | Phase | Time (G. M. T.) | | | Amplitude (μ) | Period (s) | Remarks | | |
|---------|-------|-----------------|----|------|------------------------|---------------|---|-------|------|
| | | h. | m. | s. | | | | | |
| Jul. 26 | eP | 15 | 5 | 38.0 | | | Deep earthquake W off Titizima | | |
| | S | | 7 | 11.2 | | | | | |
| | MN | | 7 | 36.9 | ± 20 | 4.3 | | | |
| | ME | | 7 | 46.4 | ± 10 | 4.1 | | | |
| | MZ | 15 | 7 | 25.5 | - 6 | 3.5 | | | |
| | F | | 12 | - | | | | | |
| Aug. 1 | P | 15 | 10 | 51.1 | N: +1, E: +3, Z: -13 | | Remarkable earthquake Epicenter 139.1° E, 44.3° N | | |
| | S | | 12 | 49.8 | | | | | |
| | MN | | 13 | 0.0 | | | | | |
| | ME | | 13 | 25.8 | | | | +535 | 5.1 |
| | MZ | | 16 | 37.6 | | | | +476 | 4.7 |
| | F | 17 | 23 | - | | | | +1639 | 10.2 |
| | | | | | | | | | |
| 3 | P | 16 | 36 | 17.5 | | | Epicenter 132.6° E, 33.6° N | | |
| | S | | 37 | 0.8 | | | | | |
| | MN | | 37 | 18.2 | - 22 | 2.4 | | | |
| | ME | | 37 | 28.3 | + 17 | 2.2 | | | |
| | MZ | | 37 | 41.9 | + 13 | 1.9 | | | |
| | F | 16 | 46 | - | | | | | |
| 4 | P | 9 | 17 | 20.1 | | | Epicenter 141.1° E, 37.7° N | | |
| | S | | 18 | 28.5 | | | | | |
| | MN | | 19 | 34.2 | - 10 | 2.9 | | | |
| | ME | | 19 | 7.2 | - 10 | 2.3 | | | |
| | MZ | | 19 | 29.8 | ± 5 | 2.4 | | | |
| | F | 9 | 25 | - | | | | | |
| 5 | P | 9 | 58 | 5.0 | | | Neighbourhood of Sokigahara, Gihuken Seismic intensity, (I) | | |
| | S | 10 | 0 | 30.7 | | | | | |
| | MN | | 4 | 10.4 | + 25 | 4.5 | | | |
| | ME | | 4 | 54.3 | + 27 | 5.2 | | | |
| | MZ | | 2 | 52.1 | - 12 | 2.8 | | | |
| | F | 10 | 18 | - | | | | | |
| 7 | P | 18 | 48 | 17.1 | | | Remarkable earthquake Epicenter, W off Okinosima 132.1° E, 36.1° N | | |
| | S | | 48 | 31.2 | - 30 | 0.2 | | | |
| | MN | | 48 | 33.8 | + 21 | 0.2 | | | |
| | ME | | 48 | 34.1 | - 11 | 0.2 | | | |
| | MZ | | 48 | 37.4 | | | | | |
| | F | 18 | 52 | - | | | | | |
| 13 | P | 15 | 37 | 27.0 | | | Epicenter, W off Okinosima 132.1° E, 36.1° N | | |
| | P | | 37 | 37.3 | | | | | |
| | S | | 38 | 6.8 | +1563 | 3.1 | | | |
| | MN | | 39 | 2.3 | + 907 | 2.9 | | | |
| | ME | | 39 | 25.5 | ± 519 | 2.9 | | | |
| | MZ | | 38 | 39.4 | | | | | |
| | F | 16 | 20 | - | | | | | |
| 13 | P | 16 | 43 | 9.5 | | | Epicenter, W off Okinosima 132.1° E, 36.1° N | | |
| | S | | 43 | 50.6 | + 23 | 3.4 | | | |
| | MN | | 44 | 54.9 | - 22 | 2.1 | | | |
| | ME | | 44 | 31.2 | - 20 | 2.0 | | | |
| | MZ | | 45 | 12.6 | | | | | |
| | F | 16 | 55 | - | | | | | |

ŌSAKA

SEISMOLOGICAL BULLETIN



| Date | Phase | Time (G. M. T.) | | | Amplitude (μ) | Period (s) | Remarks |
|----------|-------|-----------------|----|------|------------------|---------------|---|
| | | h. | m. | s. | | | |
| Aug. 15 | P | 14 | 54 | 52.8 | | | Epicenter, Neighbourhood of Simozuma, Ibaragiken 139.9°E, 36.2°N |
| | S | | 55 | 46.1 | | | |
| | MN | | 56 | 12.2 | | | |
| | ME | | 56 | 14.1 | ± 15 | 2.3 | |
| | MZ | | 56 | 19.0 | - 12 | 1.9 | |
| | F | 15 | 2 | - | - 7 | 1.6 | |
| 16 | P | 5 | 15 | 45.6 | | | Epicenter, W off Okinosima |
| | S | | 16 | 29.0 | | | |
| | MN | | 17 | 6.3 | - 18 | 3.6 | |
| | ME | | 17 | 35.6 | + 17 | 3.3 | |
| | MZ | | 17 | 3.4 | - 14 | 1.9 | |
| | F | 5 | 24 | - | | | |
| 20 | P | 5 | 3 | 3.0 | | | Epicenter, NE off Hatidyojima |
| | S | | 4 | 2.5 | | | |
| | MN | | 5 | 58.2 | - 12 | 2.5 | |
| | ME | | 5 | 43.8 | + 12 | 4.6 | |
| | MZ | | 4 | 58.8 | + 8 | 2.1 | |
| | F | 5 | 16 | - | | | |
| 22 | oP | -3 | 35 | 27.6 | | | Epicenter, Alaska Pen. |
| | iP | | 35 | 37.5 | | | |
| | pP | | 36 | 3.6 | | | |
| | PcP | | 37 | 6.3 | | | |
| | PP | | 37 | 19.6 | | | |
| | S | | 42 | 17.8 | | | |
| | MN | | 42 | 47.0 | ± 100 | 5.3 | |
| | ME | | 42 | 26.5 | ± 109 | 6.7 | |
| | MZ | | 42 | 34.0 | ± 37 | 5.6 | |
| | F | 5 | 6 | - | | | |
| 25 | oP | 10 | 32 | 33.1 | | | Epicenter, Neighbourhood of Usikunuma, Ibaragiken 140.1°E, 36.0°N Moderate earthquake |
| | S | | 33 | 23.0 | | | |
| | MN | | 34 | 1.4 | - 62 | 4.5 | |
| | ME | | 34 | 23.3 | - 63 | 2.8 | |
| | MZ | | 34 | 32.6 | ± 25 | 2.2 | |
| | F | 10 | 51 | - | | | |
| Sept. 17 | P | 4 | 31 | 51.1 | | | Epicenter, Neighbourhood of Tukubasan, Ibaragiken 140.1°E, 36.3°N New Caledonia |
| | S | | 32 | 43.3 | | | |
| | MN | | 33 | 19.5 | - 21 | 1.9 | |
| | ME | | 33 | 24.1 | - 17 | 2.1 | |
| | MZ | | 33 | 27.2 | - 13 | 1.9 | |
| | F | 4 | 41 | - | | | |
| 19 | P | 18 | 30 | 40.7 | | | |
| | PP | | 33 | 18.0 | | | |
| | S | | 39 | 13.9 | ± 25 | 7.5 | |
| | MN | | 40 | 46.5 | ± 13 | 5.3 | |
| | ME | | 40 | 56.0 | | | |
| | F | 19 | 15 | - | | | |

SEPT 1941

ŌSAKA

SEISMOLOGICAL BULLETIN



| Date | Phase | Time (G. M. T.) | | | Amplitude (μ) | Period (s) | Remarks |
|---------|-------|-----------------|----|------|---------------------------|---------------|--|
| | | h. | m. | s. | | | |
| Sep. 21 | OP | 12 | 0 | 17.1 | | | Epicenter, Neighbourhood of Itinomiya, Aitikon 136.9°E, 35.3°N |
| | iP. | | 0 | 18.7 | | | |
| | S | | 0 | 36.5 | | | |
| | MN | | 1 | 18.0 | + 29 | 1.4 | |
| | NE | | 1 | 5.9 | \pm 27 | 1.4 | |
| | MZ | | 1 | 21.3 | - 17 | 1.2 | |
| | F | 12 | 23 | - | | | |
| 22 | P | 22 | 57 | 10.4 | | | Distant earthquake |
| | i | | 58 | 52.0 | | | |
| | S | | 59 | 37.2 | | | |
| | MN | 23 | 0 | 49.6 | \pm 65 | 5.1 | |
| | ME | | 1 | 38.2 | \pm 56 | 4.9 | |
| | MZ | | 0 | 10.2 | \pm 14 | 5.3 | |
| | F | 23 | 29 | - | | | |
| 24 | P | 0 | 24 | 7.5 | | | Neighbourhood of Wakayama |
| | S | | 24 | 15.2 | | | |
| | MN | | 24 | 50.0 | + 19 | 3.2 | |
| | ME | | 24 | 54.5 | \pm 19 | 4.0 | |
| | MZ | | 25 | 22.1 | \pm 5 | 1.7 | |
| | F | 0 | 34 | - | | | |
| 27 | iP | 21 | 31 | 46.9 | N: -4, E: +0, Z: -6 | | Deep earthquake Focal depth, 500 km Epicenter, 138.5°E, 28.5°N NW off Titizima |
| | S | | 33 | 12.2 | N: +27, E: -21, Z: -12 | | |
| | MN | | 33 | 39.7 | \pm 69 | 3.2 | |
| | ME | | 33 | 39.3 | \pm 46 | 3.1 | |
| | MZ | | 33 | 54.3 | \pm 29 | 2.4 | |
| | F | 21 | 47 | - | | | |
| | | | | | | | |

Osaka Meteorological Observatory
OSAKA, NIPPON (JAPAN).