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FAYETTEVILLE

UNIVERSITY OF ARKANSAS SEISMOLOGICAL BULLETIN

Volume XI

Number 1

1962



The University Of Arkansas Seismograph Station

Operated by the University's Department of Geology
in conjunction with the
United States Coast and Geodetic Survey

FAYETTEVILLE SEISMOGRAPH STATION

Volume ~~10~~¹¹, Number ~~5~~¹, March 1962
Data for January, February, March, 1962

Instruments

Vertical component - Benioff moving coil type, short period electromagnetic-galvanometric, Mass = 100 lbs.

Seismometer-Benioff moving coil period = 1.1 second
Galvanometer-Geotechnical Corp. period = 0.2 second
Damping ratio - about 15:1 (near critical)
Recording drum speed = 60 mm. per minute

Horizontal components - Wilson - Wilson-Lamison hinges type: E-W
N-S electromagnetic - galvanometric

Seismometer period - 6.0 seconds (N-S)
6.0 seconds (E-W)
Galvanometer-General Electric period - 4.1 seconds (N-S)
3.8 seconds (E-W)

Recording drum speed - 30 mm. per minute

Clock - IBM, electrically wound, invar pendulum type.
accuracy limits generally within one tenth second.

Radio - WWV Time Signal impressed manually by telegraph key
on 5th, 10th, and 15th second. Time signals received
by a Hallicrafter receiver, S-40B.

Vertical-Ground motion trace up (compression)
reading from left to right
N-S - Ground motion trace up - North
E-W - Ground motion trace up - East

(Additional information regarding the station is given on the back cover.)

Information in Remarks column is usually from U. S. Coast and Geodetic Survey epicenter cards. "C" following the trace amplitude indicates a compressional motion of the wave; "D" indicates dilation.

Bulletin compiled by Jack C. White, Observer

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|---|---------------|----|---------|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Jan. | | | | | | | | | | |
| 1 | iP | 03 | 06 | 22.6 | 2.0 | | | 0.8D | | K |
| 1 | iP | 10 | 37 | 20.2 | 1.0 | | | 0.5D | | |
| 1 | iP | 13 | 31 | 19.1 | 0.8 | | | 1.0C | | A |
| 1 | iP | 22 | 14 | 00.9 | 0.7 | | | 1.2 | | |
| 1 | C & GS 23-40-20.3; 52.4 N, 177.7 E. h about 27 km. Rat Islands, Aleutian Is. (P-H) = 6880 km. ca. or 62.0°. | | | | | | | | | |
| | iP | 23 | 50 | 37.4 | | | | 0.8C | | |
| 2 | i | 02 | 58 | 40.8 | | | | 0.8D | | |
| 2 | e | 03 | 01 | 34.2 | 0.6 | | | 0.6 | | |
| 2 | iP | 17 | 03 | 07.1 | 0.5 | | | 1.1C | | |
| 3 | iP | 09 | 18 | 09.7 | 0.9 | | | 0.7C | | |
| 3 | i | 10 | 26 | 31.6 | | | | 0.7C | | |
| 4 | C & GS 04-16-01.7; 35.1 N., 138.9 E. h about 178 km. near coast of Honshu, Japan, Felt. (P-H) = 9060 km. ca. or 81.5° | | | | | | | | | |
| | iP | 04 | 28 | 01.1 | 0.9 | | | 0.5D | | |
| 4 | C & GS 04-35-42.6; 33.9 N., 135.2 E. h about 56 km near Shikoku, Japan Felt (P-H) = 10,860 km. ca. or 97.7°. | | | | | | | | | |
| | iP | 04 | 49 | 08.8 | 1.2 | | | 1.5D | | |
| | ipP | | | 31.9 | | | | 1.2 | | |
| | i | | | 50-13.5 | | | | 1.2 | | |
| 4 | C & GS 07-34-44.4; 5.0 S, 130.4 E h about 222 km Banda Sea. (P-H) = 15,100 km. ca. or 136.0°. | | | | | | | | | |
| | iPP | 07 | 56 | 32.4 | 0.7 | | | 1.0C | | |
| 5 | C & GS 00-23-32.1; 15.5 S., 177.7 W. h about 24 km Fiji Islands region. Mag. $6\frac{1}{4}$ (Pas), $6\frac{1}{4}$ - $6\frac{1}{2}$ (Berk.) (P-H) = 10,420 km. ca. or 93.8°. | | | | | | | | | |
| | iP | 00 | 36 | 51.9 | 1.0 | | | 0.7C | | |
| 5 | C & GS 08-08-07.5; 15.5 S., 172.5 W; h about 60 km. Tonga Islands region (P-H) = 9,800 km. ca. or 88.2°. | | | | | | | | | |
| | eP | 08 | 20 | 56.8 | 1.0 | | | 0.3 | | |
| 5 | i | 13 | 42 | 12.4 | | | | 0.7D | | |
| | i | | | 37.1 | 1.0 | | | 1.2 | | |
| | e | | | 52.3 | 2.2 | | | 1.7 | | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|---|---------------|----|------|-------------|---|-----|-------------------|---|------|
| | | h | m | s | Z | E | N | Z | E | N |
| Jan. | | | | | | | | | | |
| + 5 | C & GS 14-01-41.7; 1.6 S., 100.0 E. h about 25 km. near south coast of Sumatra. (P-H) = 15,960 km. ca. or 143.6°. | | | | | | | | | |
| | iP' | 14 | 21 | 13.5 | | | 0.9 | | | 0.9D |
| 6 | i | 07 | 46 | 26.0 | | | 1.1 | | | 1.0C |
| + 7 | C & GS 01-14-12.5; 55.2 N., 154.1 W. h about 27 km. Near Kodiak Island (P-H) = 4920 km. ca. or 44.2°. | | | | | | | | | |
| | iP | 01 | 22 | 24.6 | | | 0.8 | | | 1.0 |
| | iP | | | 42.8 | | | 0.7 | | | 1.0 |
| | iP | | | 58.1 | | | | | | 0.7 |
| | iPP | 24 | 18 | 2 | | | | | | 0.8 |
| 7 | i(P) | 08 | 48 | 37.0 | | | 1.5 | | | 0.8C |
| | i | | | 42.6 | | | 1.2 | | | 1.0 |
| + 7 | C & GS 10-02-12.8; 43.4 N., 17.4 E; h about 32 km. Yugoslavia. 2 killed 19 injured, heavy damage centering around Makarska. (P-H) = 8820 km. ca. 79.4°. | | | | | | | | | |
| | eP | 10 | 15 | 16.8 | | | 1.3 | | | 1.2 |
| 7 | C & GS 13-08-41.1; 8.6 S., 125.1 E. h about 96 km. near Timar. (P-H) = 15,380 km. ca. or 138.3°. | | | | | | | | | |
| | iP | 13 | 25 | 10.3 | | | 0.7 | | | 0.9C |
| | iP | 16 | 46 | 44.8 | | | 0.9 | | | 3.2D |
| | i | | | 51.4 | | | 0.9 | | | 3.6 |
| 7 | C & GS 22-00-30.9; 37.7 S., 71.7 W. h about 90 km. Central Chile-Argentina border. (P-H) = 8,760 km. ca. or 78.9°. | | | | | | | | | |
| | eP | 22 | 12 | 27.4 | | | | | | 0.8 |
| + 8 | C & GS 01-00-24.2; 18.5 N., 70.5 W. h about 63 km. near coast (south) of Dominican Republic; 1 killed, 6 injured, damage at San Jose de Ocoa and Azua. Mag $6\frac{1}{2}$ (Pas.) $6\frac{1}{4}$ - $6\frac{1}{2}$ (Berk.), 6 (Pal.) (P-H) = 3080 km. ca. or 27.3°. | | | | | | | | | |
| | iP | 01 | 06 | 07.9 | | | 1.8 | | | 2.9D |
| | epP | | | 25.9 | | | | | | 4.1 |
| 8 | C & GS 02-05-21.1; 18.5 N., 70.6 W. h about 50 km. Dominican Republic (P-H) = 3080 km. ca. or 27.3°. | | | | | | | | | |
| | iP | 02 | 11 | 13.4 | | | 1.5 | | | 3.0C |
| 8 | iP | 23 | 14 | 22.4 | | | 0.9 | | | 2.7D |
| | i | | | 31.2 | | | 1.0 | | | 1.2 |
| 9 | C & GS 06-45-10.2; 33.1 N., 39.7 W. h about 25 km. Mid-Atlantic Ocean (P-H) = 4920 km. ca. or 44.3°. | | | | | | | | | |
| | eP | 06 | 53 | 23.1 | | | 1.3 | | | 0.8 |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | | 3 |
|------|--------|--|---|---|-------------|---|---|-------------------|---|---|---|
| | | h | m | s | Z | E | N | Z | E | N | |
| Jan. | | | | | | | | | | | |
| + 9 | | C & GS 12-40-49.3; 42.9 N., 144.8 E. h about 78 km near coast of Hokkaido, Japan. (P-H) = 9,520 km. ca. or 85.3°. | | | | | | | | | |
| | iP | 12-53-18.8 | | | 1.1 | | | 2.4C | | | |
| | i(PcP) | 31.8 | | | 1.0 | | | 10.5 | | | |
| 9 | iP | 18-57-55.6 | | | 0.9 | | | 0.7D | | | |
| 9 | iP | 21-46-36.8 | | | 0.8 | | | 1.0C | | | |
| | i | 55.0 | | | 0.6 | | | 1.1 | | | |
| + 9 | | C & GS 22-13-51.5; 48.3 N., 147.5 E. h about 480 km. Sea of Okhotsk (P-H) = 8900 km. ca. or 80.0°. | | | | | | | | | |
| | iP | 22-25-12.9 | | | 0.9 | | | 2.3C | | | |
| 10 | | C & GS 02-19-57.1; 52.9 N., 169.1 W. h about 43 km. Fox Islands, Aleutian Islands (P-H) = 5940 km. ca. or 53.4°. | | | | | | | | | |
| | eP | 02-29-20.7 | | | | | | 0.3C | | | |
| 10 | | C & GS 02-55-01.2; 17.1 S., 68.0 W. h about 208 km. Peru-Bolivia border (P-H) = 6450 km. ca. or 58.0°. | | | | | | | | | |
| | iP | 03-04-36.4 | | | 0.5 | | | 3.7D | | | |
| 10 | | C & GS 06-28-40.5; 44.3 N., 127.7 W. h about 61 km off coast of Oregon Mag. 4 3/4 (Pal). (P-H) = 3090 km. ca. or 27.9°. | | | | | | | | | |
| | eP | 06-34-24.5 | | | 1.4 | | | 0.8 | | | |
| 11 | | C & GS 02-54-10.8; 51.6 N., 176.9 E. h about 53 km. Rat Islands, Aleutian Islands. (P-H) = 6900 km. ca. or 62.9°. | | | | | | | | | |
| | eP | 03-04-30.9 | | | | | | 0.5 | | | |
| | iPcP | 05-04.8 | | | 1.1 | | | 1.9 | | | |
| + 11 | | C & GS 05-05-01.6; 43.5 N., 17.7 E. h about 25 km. Near coast of central Yugoslavia 2 killed, 20 injured, moderate property damage at Podgora, Ploce and Makarska, Mag 5 3/4 (Pas). (P-H) = 8830 km. ca. or 79.6°. | | | | | | | | | |
| | eP | 05-17-06.7 | | | 1.6 | | | 1.1 | | | |
| | i | 18-11.9 | | | | | | 1.5 | | | |
| + 11 | | C & GS 06-49-07.6; 51.9 N., 179.3 W. h about 60 km. Andreanof Islands, Aleutian Islands. (P-H) = 6720 km. ca. or 60.5°. | | | | | | | | | |
| | iP | 06-59-11.4 | | | 1.1 | | | 2.1C | | | |
| | i(pP) | 20.0 | | | 1.2 | | | 4.5 | | | |
| | i(PP) | 07-01-11.4 | | | 1.0 | | | 1.0 | | | |
| + 12 | iP | 13-50-46.0 | | | 1.0 | | | 0.5D | | | |
| 13 | | C & GS 00-45-12.8; 22.7 S., 68.6 W. h about 159 km. Northern Chil. (P-H) = 7,040 km. ca. or 63.3°. | | | | | | | | | |
| | iP | 00-55-25.4 | | | 1.2 | | | 1.2C | | | |
| | iPcP | 56.9 | | | 1.4 | | | 1.1 | | | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|---|---------------|----|---------|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Jan. | | | | | | | | | | |
| + 13 | C & GS 04-48-37.3; 52.3 N., 177.4 E. h about 49 km. Rat Islands, Aleutian Islands; (P-H) = 6,710 km. ca. or 60.4°. | | | | | | | | | |
| | iP | 04 | 58 | 50.0 | 0.9 | | | 0.7C | | |
| + 14 | C & GS 13-34-02.8; 44.9 N., 140.8 E. h about 193 km. off northwest coast of Hokkaido, Japan. (P-H) = 9500 km. ca. or 85.6°. | | | | | | | | | |
| | iP | 13 | 46 | 21.4 | 0.9 | | | 1.2D | | |
| 15 | iP | 08 | 13 | 07.2 | 0.5 | | | 1.5D | | |
| | i | | | 26.0 | 1.9 | | | 1.4 | | |
| + 15 | C & GS 08-22-15.9; 13.0 N., 60.5 W. h about 78 km. off coast of Venezuela. (P-H) = 4200 km. ca. or 37.9°. | | | | | | | | | |
| | iP | 08 | 29 | 27.8 | 0.5 | | | 3.3C | | |
| | ipP | | | 29.9 | 0.9 | | | 1.7 | | |
| | isP | | | 46.2 | 1.0 | | | 1.5 | | |
| 16 | eP | 10 | 39 | 48.2 | 0.5 | | | 0.6 | | |
| | i(S) | | | 40-04.5 | 0.9 | | | 0.7 | | |
| | i | | | 37.1 | 0.9 | | | 0.6 | | |
| 17 | i | 13 | 38 | 50.4 | 0.6 | | | 1.5D | | |
| | i | | | 55.2 | 1.0 | | | 0.8 | | |
| 17 | i | 13 | 42 | 17.4 | | | | 0.7 | | |
| + 17 | C & GS 15-29-06.6; 4.3 N., 128.3 E. h about 25 km. Molucca Passage (P-H) = 13,540 km. ca. or 121.9°. | | | | | | | | | |
| | iP' | 15 | 48 | 17.5 | | | | 0.6C | | |
| + 17 | C & GS 15-43-18.3; 3.9 N., 126.6 E. h about 74 km. Molucca Passage (P-H) = 13,840 km. ca. or 124.6°. | | | | | | | | | |
| | eP' | 16 | 02 | 12.9 | | | | 0.4 | | |
| 17 | e | 23 | 34 | 37.1 | | | | 0.5 | | |
| 17 | C & GS 23-34-32.0; 15.0 N., 88.0 W. h about 42 km. Honduras (P-H) = 2440 km. ca. or 22.0°. | | | | | | | | | |
| | iP | 23 | 39 | 25.0 | 1.0 | | | 3.5C | | |
| | iPP | | | 55.0 | 1.0 | | | 1.2 | | |
| 18 | C & GS 21-59-44.1; 4.4 S., 129.5 E. h about 21 km. Banda Sea (P-H) = 15,310 km. ca. or 137.8°. | | | | | | | | | |
| | iPP | 22 | 22 | 08.5 | 1.0 | | | 0.7C | | |
| 19 | eP | 04 | 50 | 34.7 | | | | 0.1 | | |
| | i | | | 42.0 | 1.4 | | | 1.0 | | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|--|---------------|---|---|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Jan. | | | | | | | | | | |
| + 19 | C & GS 06-01-09.5; 51.5 N., 161.1 E. h about 29 km. off southeast coast of Kamchatka; (P-H) = 7,810 km. ca. or 70.2°. | | | | | | | | | |
| | iP | 06-12-23.1 | | | 1.2 | | | 4.3D | | |
| | iP | 34.0 | | | 1.1 | | | 1.7 | | |
| | i | 49.9 | | | 1.1 | | | 0.5 | | |
| 19 | iP | 19-37-42.9 | | | 1.1 | | | 0.5C | | |
| + 19 | C & GS 19-38-04.1; 38.5 N., 22.1 E. h about 38 km. Greece (P-H) = 9440 km. ca. or 85.0°. | | | | | | | | | |
| | eP | 19-50-37.9 | | K | 1.0 | | | 0.9D | | |
| 19 | iP | 19-56-30.0 | | | 1.1 | | | 1.0D | | |
| + 19 | iP | 22-45-59.9 | | A | 1.9 | | | 1.1C | | |
| 20 | i | 08-11-20.5 | | | 0.8 | | | 0.5D | | |
| 20 | i(D) | 20-20-41.7 | | | | | | 0.5C | | |
| | i | 21-12.5 | | | | | | 0.5 | | |
| | e | 22-36.7 | | | 1.0 | | | 1.4 | | |
| | i | 24-30.4 | | | 0.9 | | | 0.5 | | |
| 21 | e(P) | 00-28-55.0 | | | 1.0 | | | 0.7 | | |
| + 22 | C & GS 07-26-45.3; 52.4 N., 100.0 E; h about 68 km. Lake Baidal region. (P-H) = 10,200 km. ca. or 91.9°. | | | | | | | | | |
| | iP | 07-39-45.4 | | K | 1.4 | | | 0.7D | | |
| | i(sP) | 40-18.1 | | | 1.0 | | | 0.5 | | |
| 22 | iP | 08-24-23.7 | | | 1.0 | | | 0.7C | | |
| + 23 | C & GS 15-59-20.4; 52.5 N., 169.5 W. h about 25 km. Fox Islands, Aleutian Islands (P-H) = 5890 km. ca. or 53.0°. | | | | | | | | | |
| | iP | 16-08-40.3 | | | 1.1 | | | 0.8D | | |
| | iP | 53.1 | | | 1.3 | | | 1.7 | | |
| | iP | 09-10.7 | | | 1.0 | | | 1.3 | | |
| | iP | 09-23.7 | | | 1.1 | | | 0.6 | | |
| + 23 | C & GS 17-31-39.7; 44.6 N., 12.3 E. h about 61km. near coast of Emilia Romagna, Italy; Felt: Ancona, Rimini and Trieste. (P-H) = 8,500 km. ca. or 77.0°. | | | | | | | | | |
| | iP | 17-43-23.2 | | K | 1.1 | | | 0.7D | | |
| 24 | C & GS 03-01-17.3; 21.2 S., 65.7 W. h about 238 km. Southern Bolivia (P-H) = 6920 km. ca. or 62.3°. | | | | | | | | | |
| | iP | 03-11-22.7 | | | 0.6 | | | 2.1D | | |
| | ipP | 12-15.7 | | | | | | 0.7 | | |
| | isP | 12-46.3 | | | | | | 0.8 | | |
| | i(PP) | 13-32.8 | | | | | | 0.6 | | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|---|---------------|----|------|-------------|-----|-----|-------------------|-----|------|
| | | h | m | s | Z | E | N | Z | E | N |
| Jan. | | | | | | | | | | |
| 24 | C & GS 05-28-54.1; 59.2 N., 154.8 W. h about 25 km Alaska Peninsula (P-H) = 4900 km. ca. or 71.0°. | | | | | | | | | |
| | iP | 05 | 37 | 05.7 | 0.6 | | | 1.2D | | |
| 24 | iP | 07 | 35 | 44.2 | 0.9 | | | 0.7D | | |
| | i | | 39 | 53.9 | | | | 0.6 | | |
| 24 | eP | 14 | 37 | 10.2 | 1.4 | | | 1.0 | | |
| * 25 | C & GS 07-26-05.7; 15.8 S., 69.5 N. h about 209 km Peru-Bolivia. (P-H) = 6,360 km. ca. or 57.2°. | | | | | | | | | |
| | iP | 07 | 35 | 27.6 | 1.3 | | | 6.3C | | |
| | iPcP | | 36 | 16.2 | 1.4 | | | 1.6 | | |
| 25 | C & GS 10-03-07.0; 4.4 S., 152.7 W. h about 50 km. Line Islands region (P-H) = 7,590 km. ca. or 68.3°. | | | | | | | | | |
| | iP | 10 | 14 | 02.9 | 1.0 | | | c | | |
| 25 | iP | 16 | 07 | 29.2 | 0.6 | | | 0.6D | | |
| | i | | 48 | 3 | 0.6 | | | 0.5 | | |
| 26 | i(P) | 02 | 47 | 21.1 | | | | 0.5C | | |
| | i | | 26 | 4 | 0.8 | | | 0.8 | | |
| * 26 | C & GS 08-17-37.0; 35.1 N., 22.7 E. h about 32 km. Mediterranean Sea West of Crete. Mag. 5-5¼ (Pal) (P-H) = 9820 km. ca. or 88.4°. | | | | | | | | | |
| | iP | 08 | 30 | 28.0 | 1.4 | | | 6.7C | | |
| | i | | 31 | 58.8 | 1.1 | | | 1.6 | | |
| | i(PP) | | 33 | 51.5 | 1.4 | | | 1.1 | | |
| | i(PPP) | | 35 | 17.2 | | | 1.0 | | | |
| 26 | C & GS 14-34;45.7; 36.9 S., 88.9 W. h about 60 km. South Pacific Ocean, about 600 miles southwest of Juan. Fernandez Islands. (P-H) = 8140 km. ca. 73.2°. | | | | | | | | | |
| 26 | C & GS 18-40-23.0; 10.3 N., 90.6 W. h about 45 km off coast of El Salvador. (P-H) = 2740 km. ca. or 24.7°. | | | | | | | | | |
| | iP | 18 | 45 | 44.0 | | | | 0.7C | | |
| 26 | i | 21 | 09 | 26.8 | 0.5 | | | 1.5D | | |
| 26 | i(P) | 22 | 34 | 04.9 | 1.1 | | | 0.7D | | |
| * 27 | C & GS 23-07-42.1; 31.0 N., 114-3 W. h about 22 km. Gulf of California Mag 5¼ (Pas) 5¼-5½ (Pal) (P-H) = 1950 km. ca. or 17.7°. | | | | | | | | | |
| | iP | 23 | 11 | 48.0 | 3.0 | | | 2.5D | | |
| | iLN | | 16 | 58.4 | | | 3.2 | | | 22.5 |
| | iLZ | | 17 | 02.4 | 3.0 | | | 5.5 | | |
| | iLE | | 03 | 4 | | 3.1 | | | 8.4 | |
| | eLZ | | 18 | 30.8 | 2.5 | | | 5.7 | | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms) | | |
|----------------|--|---------------|----|------|-------------|------|-----|------------------|------|------|
| | | h | m | s | Z | E | N | Z | E | N |
| Jan. | | | | | | | | | | |
| 27 (continued) | | | | | | | | | | |
| | eLN | 23 | 18 | 36.4 | | | 7.0 | | | 42.5 |
| | eLE | | | 50.0 | | 11.4 | | | 29.5 | |
| | iL | 21 | 41 | 3 | 5.4 | | | 2.5 | | |
| 28 | C & GS 05-22-55.7; 14.0 N., 92.3 W. h about 133 km. off coast of Guatemala. (P-H) = 2410 km. ca. or 21.7°. | | | | | | | | | |
| | eP | 05 | 27 | 40.8 | 1.3 | | | 0.6 | | |
| | i | | 28 | 38.9 | | | | 1.0 | | |
| + 28 | C & GS 05-40-08.2; 17.2 S., 172.0 W. h about 25 km. Tonga Islands Felt: Apia-Mag. 6 $\frac{1}{4}$ (Psl) (P-H) = 10,000 km. ca. or 90.0°. | | | | | | | | | |
| | iP | 05 | 53 | 08.8 | | | | 2.50 | | |
| | i | | | 20.7 | 2.2 | | | 2.5 | | |
| | i | | 54 | 12.0 | 2.4 | | | 1.6 | | |
| | i | | 56 | 42.8 | 1.2 | | | 1.5 | | |
| + 28 | C & GS 16-41-13.8; 0.0, 123.9 E. h about 101 km. northern Celebes region (P-H) = 14,190 km. ca. or 127.8°. | | | | | | | | | |
| | iP' | 17 | 00 | 14.7 | 0.9 | | | 2.00 | | |
| | ipP' | | | 31.6 | | | | 0.8 | | |
| 29 | C & GS 06-07-22.0; 9.3 S., 79.1 W. h about 100 km. near coast of Peru. (P-H) = 5,220 km. ca. or 47.0°. | | | | | | | | | |
| | eP | 05 | 15 | 47.2 | 1.0 | | | 0.4 | | |
| + 30 | C & GS 08-34-26.8; 12.7 N., 87.7 W. h about 101 km. near coast of Nicaragua. Felt: Managua, Nicaragua. (P-H) = 2,680 km. ca. or 24.1°. | | | | | | | | | |
| | iPZEN | 08 | 39 | 35.8 | 0.6 | 0.6 | 0.8 | 5.50 | 0.1 | 0.1 |
| | i(PcP)N | | 42 | 52.3 | | | | | | 2.9 |
| | i(PcP)E | | | 53.5 | | | | | 1.7 | |
| | eSN | 44 | 13 | 9 | | | 6.4 | | | 4.0 |
| | iSE | | | 32.3 | | | | | 4.1 | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|---|---------------|---|---|-------------|------|-----|-------------------|------|------|
| | | h | m | s | Z | E | N | Z | E | N |
| Feb. | | | | | | | | | | |
| 1 | C & GS 18-06-49.8; 26.1 N., 109.2 W. h about 45 km. Gulf of California (P-H) = 1690 km. ca. or 15.2°. | | | | | | | | | |
| | iP | 18-10-39.1 | | | 1.2 | | | 0.9D | | |
| 2 | C & GS 05-41-38.7; 45.7 N., 151.6 E. h about 37 km. Kurile Islands (P-H) = 8820 km. ca. or 79.3°. | | | | | | | | | |
| | iP | 05-53-42.7 | | | 1.0 | | | 1.2C | | |
| 2 | C & GS 06-43-28.8; 36.3 N., 89.4 W. h about 25 km. northwestern Tennessee Felt in 4 states. (P-H) = 420 km. ca. or 3.8°. | | | | | | | | | |
| | iPZE | 06-44-30.1 | | | 0.4 | 2.0 | | 9.0C | 1.0 | |
| | ePZ | 38.7 | | | 0.6 | | | 34 | | |
| | iPE | 38.9 | | | | 1.2 | | | 7.5 | |
| | iPN | 39.1 | | | | | 1.8 | | | 2.5 |
| | iSZEN | 45-26.9 | | | 0.8 | 2.0 | | 80 | 22 | 40 |
| 2 | Possible aftershock of the earthquake in northwestern Tennessee at 06-43-28.8 | | | | | | | | | |
| | e(S) | 08-11-44.6 | | | 0.5 | | | 2.2 | | |
| + 2 | C & GS 07-59-58.5; 49.9 N., 78.2 E. h about 0 km. Kazakh S.S.R. (P-H) = 10,460 km. ca. or 94.1°. | | | | | | | | | |
| | i | 08-13-19.7 | | | 0.9 | | | 1.2D | | |
| + 2 | C & GS 17-20-11.1; 43.7 N., 148.5 E. h about 49 km. Kurile Islands (P-H) = 9280 km. ca. or 83.5°. | | | | | | | | | |
| | iP | 17-32-30.0 | | | 0.9 | | | 1.0D | | |
| 2 | C & GS 23-03-58.9; 18.2 N., 104.9 W. h about 17 km. near west coast of Mexico. (P-H) = 2290 km. ca. or 20.6°. | | | | | | | | | |
| | ePZEN | 23-08-36.2 | | | 1.7 | 1.6 | 1.8 | 2.2 | 1.9 | 1.1 |
| | eLEN | 15-06.4 | | | | 6.2 | 6.2 | | 12.4 | 11.5 |
| + 3 | C & GS 00-37-53.6; 1.2 S., 137.8 E. h about 17 km. north of New Guinea. (P-H) = 13,260 km. ca. or 119.3°. | | | | | | | | | |
| | iP' | 00-56-46.9 | | | | | | 0.9 | | |
| | iPKKP | 01-06-52.1 | | | 1.2 | | | 1.1 | | |
| | eLE | 39-04.9 | | | | 17.0 | | | 1.7 | |
| | eLN | 27.0 | | | | | 19 | | | |
| 3 | iP | 20-11-24.3 | | | 1.0 | | | 0.8C | | |
| 3 | C & GS 21-38-19.9; 6.5 N., 73.1 W. h about 190 km. Colombia. (P-H) = 3830 km. ca. or 34.6°. | | | | | | | | | |
| | iP | 21-44-56.4 | | | 0.6 | | | 2.4D | | |
| | ipP | 45-35.9 | | | 0.7 | | | 0.6 | | |

| Date | Phase | Time U. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|--|---------------|---|---|-------------|------|---|-------------------|-----|-----|
| | | h | m | s | Z | E | N | Z | E | N |
| Feb. | | | | | | | | | | |
| 3 | C & GS 02-54-42.1; 4.6 S., 119.0 E. h about 89 km. Celebes. (P-H) = 14,960 km. ca. or 134.7°. | | | | | | | | | |
| | ePI | 03-13-55.3 | | | 2.5 | | | 0.4 | | |
| | ePP | 16-39.9 | | | | | | 0.4 | | |
| 4 | C & GS 17-47-39.7; 7.4 N., 82.4 W. h about 38 km. South of Panama (P-H) = 3340 km. ca. or 30.0°. | | | | | | | | | |
| | iP | 17-53-52.3 | | | 1.5 | | | 1.5C | | |
| X 4 | C & GS 21-29-33.2; 0.55, 20.2 W. h about 17 km. south Atlantic Ocean. (P-H) = 8670 km. ca. or 78.0°. | | | | | | | | | |
| | iP | 21-41-30.0 | | | 1.8 | | | 3.1D | | |
| | i(PcP) | 42-15.5 | | | 1.6 | | | 2.1 | | |
| | eSE | 51-08.0 | | | | 5.2 | | | 1.0 | |
| | eSN | 10.8 | | | | 11.2 | | | | 2.9 |
| 5 | C & GS 14-45-51.1; 38.2 N., 107.6 W. h about 25 km. Colorado. (-H) = 1500 km. ca. or 13.6°. | | | | | | | | | |
| | iP | 14-49-08.0 | | | 1.0 | | | 0.7C | | |
| | eS | 51-27.2 | | | 1.0 | | | 0.3 | | |
| 5 | i | 19-22-50.3 | | | 1.0 | | | 1.1C | | |
| X 5 | C & GS 22-55-49.6; 25.9 N., 138.8 E. h about 151 km. Central Honshu, Japan, Felt. (P-H) = 10,480 km. ca. or 93.7°. | | | | | | | | | |
| | iP | 23-08-50.8 | | | 1.2 | | | 6.3C | | |
| | ipP | 09-25.1 | | | 1.1 | | | 2.8 | | |
| | isP | 36.7 | | | 1.2 | | | 2.2 | | |
| | i | 10-24.0 | | | 1.0 | | | 1.9 | | |
| 6 | iP | 00-12-55.2 | | | 0.8 | | | 1.8D | | |
| 6 | e(P) | 02-47-52.9 | | | 0.9 | | | 0.2 | | |
| 6 | C & GS 02-58-24.4; 13.8 N., 91.1W. h about 134 km. Guatemala (P-H) = 2490 km. ca. or 22.4°. | | | | | | | | | |
| | ip | 02-03-16.2 | | | 0.8 | | | 0.6D | | |
| | iPP | 04-15.5 | | | 1.0 | | | 1.2 | | |
| 6 | C & GS 04-40-57.5; 56.8 N., 156.0 W. h about 80 km. Kodiak Island region, Alaska (P-H) = 5020 km. ca. or 45.1°. | | | | | | | | | |
| | i | 04-49-10.5 | | | 1.0 | | | 0.9C | | |
| 6 | 18-02-52.9 | 1.2 | | | | | | 1.6C | | |
| 7 | eP | 09-45-27.5 | | | 1.4 | | | 0.6 | | |
| 7 | i | 09-56-53.1 | | | 0.6 | | | 1.0D | | |
| 8 | 3(P) | 04-19-15.4 | | | | | | 0.1 | | |

| Date | Phase | G. C. T. | Period Sec. | | | Trace Amp. (mms.) | | |
|------|--|------------|-------------|---|---|-------------------|-----|-----|
| | | | Z | E | N | Z | E | N |
| Feb. | | | | | | | | |
| x8 | C & GS 11-49-13.9; 3.2 S., 141.3 E. h about 87 km. New Guinea (P-H) = 13,290 km. ca. or 119.6°. | | | | | | | |
| | iP' | 12-07-58.5 | 1.0 | | | 0.6 | | |
| | ePP | 09-20.0 | 1.6 | | | 0.9 | | |
| | e | 10-20.5 | | | | 0.8 | | |
| x8 | C & GS 19-40-27.7; 0.7 N., 98.6 E. h about 43 km. Sumatra (P-H) = 15,100 km. ca. or 136.0°. | | | | | | | |
| | eP' | 19-59-49.6 | 0.7 | | | 0.8 | | |
| | e | 20-00-21.6 | 0.9 | | | 1.1 | | |
| | iPP | 02-54.6 | 1.0 | | | 0.8 | | |
| 9 | Earthquake near Fayetteville (P-H) = 460 km. ca. or 4.1°. | | | | | | | |
| | iP | 14-01-17.4 | 0.3 | | | 0.3C | | |
| | i | 23.1 | | | | 2.2 | | |
| | eSZEN | 59.9 | 0.5 | | | 5.3 | 0.2 | 0.7 |
| 9 | C & GS 18-14-32.7; 51.2 N., 178.4 W. h about 25 km. Andreanof Islands, Aleutian Islands (P-H) = 6,530 km. ca. or 58.8°. | | | | | | | |
| | iP | 18-24-34.5 | 1.0 | | | 1.1C | | |
| | ePcP | 25-22.2 | 0.9 | | | 0.5 | | |
| 9 | C & GS 18-40-30.8; 18-40-30.8; 48.9; 44-49.2 | | | | | | | |
| | iP | 18-40-30.8 | 0.4 | | | 0.8C | | |
| | i | 48.9 | 0.4 | | | 0.6 | | |
| | i | 44-49.2 | 0.5 | | | 0.7 | | |
| x9 | C & GS 21-51-13.2; 0.6 N., 123.9 E. h about 60 km. Ceelus. (P-H) = 14,540 km. ca. or 130.9°. | | | | | | | |
| | iP' | 22-10-19.4 | 1.0 | | | 1.2D | | |
| | i(SKP) | 13-30.2 | 0.5 | | | 0.4 | | |
| 10 | 3P 02-16-19.3 0.9 0.5 | | | | | | | |
| 10 | C & GS 04-19-41.7; 19.2 S., 69.5 W. h about 232 km. ca. Chile-Bolivia border (P-H) = 6,560 km. ca. or 59.0°. | | | | | | | |
| | iP | 04-29-24.8 | 1.4 | | | 1.4D | | |
| | i(PcP) | 56.8 | | | | 1.1 | | |
| | epP | 30-12.2 | 1.4 | | | 0.7 | | |
| x10 | C & GS 19-31-56.2; 17.9 N., 62.2 W. h about 70 km. Leeward Islands (P-H) = 3730 km. ca. or 33.5°. | | | | | | | |
| | iP | 19-38-31.5 | 1.5 | | | 4.0D | | |
| | i | 40-57.4 | 1.2 | | | 1.4 | | |
| | iPcP | 41-23.6 | 1.0 | | | 1.1 | | |
| | i | 35.3 | 1.0 | | | 0.9 | | |
| 10 | C & GW 19-46-11.0 33.1 S., 69.0 W. h about 171 km. Mendoza Province, Argentina. (P-H) = 6840 km. ca. or 61.7°. | | | | | | | |
| | iP | 19-59-21.7 | 1.1 | | | 4.0D | | |
| | i(PcP) | 48.9 | 1.1 | | | 1.1 | | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|---|---------------|---|---|-------------|------|---|-------------------|------|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Feb. | | | | | | | | | | |
| X 11 | C & GS 02-42-36.1; 29.6 N., 139.0 E. h about 400 km. South of Honshu Japan Mag. $6\frac{1}{4}$ (Pas). (P-H) = 10,800 km. ca or 97.1° . | | | | | | | | | |
| | iP | 02-55-28.2 | | | 1.4 | | | 2.0D | | |
| | ipP | 57-04.6 | | | 1.6 | | | 1.5 | | |
| | isP | 30.5 | | | 1.1 | | | 1.2 | | |
| | i | 58-45.1 | | | | | | 0.9 | | |
| | ePP | 59-26.0 | | | 1.2 | | | 0.9 | | |
| 11 | iP | 05-32-58.4 | | | 0.6 | | | 0.7 | | |
| | i | 33-09.3 | | | | | | 1.0 | | |
| X 11 | C & GS 18-55-32.0; 4.5 S., 153.5 E. h about 100 km. New Ireland region Mag. 6 (Brk) (P-H) = 12,390 km. ca. or 11.5° . | | | | | | | | | |
| | ePP | 19-14-40.5 | | | | | | 0.5 | | |
| | e(PS)E | 24-10.5 | | | 5.2 | | | 2.8 | | |
| | i(PSP) | 25-06.2 | | | | | | 0.6 | | |
| | eLE | 47-28.5 | | | 3.0 | | | 2.0 | | |
| 11 | C & GS 10-01-24.8; 52.0 N., 168.0 W. h about 50 km. Fox Islands, Aleutian, Islands. (P-H) = 5920 km. ca. or 53.2° . | | | | | | | | | |
| | iP | 10-10-37.0 | | | 0.6 | | | 3.0D | | |
| | iPcP | 11-43.9 | | | 1.2 | | | 0.9 | | |
| 13 | C & GS 00-46-16.3; 54.1 N., 35.1 W. h about 27 km. north Atlantic Ocean. (P-H) = 4880 km. ca. or 44.0° . | | | | | | | | | |
| | iP | 00-54-25.4 | | | 1.1 | | | 0.7C | | |
| 13 | C & GS 02-22-15.2; 49.0 N., 156.2 E. h about 45 km. Kurile Islands (P-H) = 8300 km. ca. or 74.7° . | | | | | | | | | |
| | iP | 02-33-53.6 | | | 0.8 | | | 0.7 | | |
| X 14 | C & GS 06-36-01.3; 38.1 S., 73.1 W. h about 44 km. near coast of Chile Moderate property damage in Central Chile. Mag. $7\frac{1}{4}$ (Pas), $7\frac{1}{2}$ (Brk.) (P-H) = 8440 km. ca. or 76.0° . | | | | | | | | | |
| | iPZN | 06-47-46.7 | | | 1.1 | 12.2 | | 0.9C | 9.8 | |
| | ePE | 48.5 | | | | 2.4 | | | 1.9 | |
| | iP | 48-31.9 | | | 1.9 | | | 8.8 | | |
| | i | 49-53.8 | | | 1.5 | | | 4.0 | | |
| | iPP | 51-23.2 | | | 1.7 | | | 4.2 | | |
| | iPPP | 52-20.5 | | | 1.6 | | | 2.4 | | |
| | eSN | 57-08.1 | | | | 17.2 | | | 35.0 | |
| | eSE | 28.5 | | | | 10.0 | | 21 | | |
| | pZZN | 07-20-02.1 | | | 20 | 18 | | 0.9 | 29.0 | |
| | iSKPP' | 05.6 | | | 1.0 | | | 0.7 | | |
| | iL | 27-27.3 | | | 18 | | | 1.3 | | |
| | eL | 30-35.6 | | | 16.5 | | | 1.7 | | |
| | eLE | 31-02.0 | | | | 17.0 | | 21 | | |

| Date | Phase | G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|--|------------|---|---|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Feb. | | | | | | | | | | |
| 14 | C & GS 08-11-59.3; 38.1 S., 73.7 W. h about 40 km. near coast of Chile (P-H) = 8600 km. ca. or 77.5°. | | | | | | | | | |
| | iP | 08-23-43.7 | | | | | | 1.0C | | |
| 14 | C & GS 08-29-00.1; 38.2 S., 73.1 W. h about 40 km. near coast of Chile (P-H) = 8420 km. ca. or 75.9°. | | | | | | | | | |
| | iP | 08-40-45.5 | | | 1.1 | | | 1.0 | | |
| 15 | C & GS 07-12-42.9; 36.9 N., 112.4 W. h about 26 km. Arizona-Utah border Felt: Kanab, Utah (P-H) = 1700 km. ca. or 15.4°. | | | | | | | | | |
| | e(P) | 07-16-23.2 | | | | | | 0.5 | | |
| | i | 17-15.0 | | | 1.1 | | | 0.6 | | |
| | iL | 20-19.7 | | | | | | 0.6 | | |
| 15 | C & GS 09-56-01.0; 49.4 S., 32.1 E. h about 25 km. Prince Edward Island region. (P-H) = 15,120 km. ca. or 136.1°. | | | | | | | | | |
| | iP' | 10-15-23.2 | | | 1.0 | | | 0.2 | | |
| 15 | l | 18-04-09.6 | | | 1.0 | | | 0.8C | | |
| 15 | e | 18-09-13.6 | | | | | | 0.2 | | |
| 15 | C & GS 20-28-47.2; 38.1 S., 73.2 W. h about 40 km. near coast of Chile (P-H) = 8440 km. ca. or 76.0°. | | | | | | | | | |
| | iP | 20-40-32.4 | | | | | | 0.9 | | |
| 16 | C & GS 02-55-07.0; 38.1 S., 73.1 W. h about 40 km. near coast of Chile (P-H) = 8430 km. ca. or 75.9°. | | | | | | | | | |
| | eP | 03-06-52.1 | | | 1.6 | | | 0.8 | | |
| X 16 | C & GS 15-54-32.3; 49.4 N., 156.0 E. h about 24 km. Kurile Islands (P-H) = 8320 km. ca. or 74.9°. | | | | | | | | | |
| | iP | 16-06-11.5 | | | | | | 0.6C | | |
| 17 | i | 16-05-10.8 | | | 0.9 | | | 0.7C | | |
| 17 | C & GS 18-16-06.2; 38.0 S., 33.5 W. h about 40 km. near coast of Chile (P-H) = 8120 km. ca. or 73.1°. | | | | | | | | | |
| | eP | 18-27-35.0 | | | 0.9 | | | 0.7 | | |
| 17 | C & GS 22-01-51.1; 49.2 N., 156.0 E. h about 23 km. Kurile Islands (P-H) = 8470 km. ca. or 76.2°. | | | | | | | | | |
| | iP | 22-13-38.5 | | | 1.0 | | | 1.1D | | |
| 18 | C & GS 01-28-34.9; 49.2 N., 156.6 E. h about 46 km. Kurile Islands (P-H) = 8270 km. ca. or 74.4°. | | | | | | | | | |
| | iP | 01-40-12.7 | | | 0.9 | | | 0.7D | | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------------------------|--|---------------|----|------|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Feb. 18 (continued) | i | 01 | 40 | 25.9 | 1.2 | | | 1.3 | | |
| X 18 | C & GS 10-42-32.8; 41.5 N., 142.4 E. h about 40 km. near coast of Hokkaido, Japan. (P-H) = 9640 km. ca. or 86.8°. | | | | | | | | | |
| | iP | 10 | 55 | 15.4 | 1.1 | | | 0.9 | | |
| | i | | 29 | 0 | 0.8 | | | 1.2 | | |
| X 18 | C & GS 17-25-17.3; 8.1 N., 74.6 W. h about 70 km. northern Colombia. Felt: Bogata & Medellin. (P-H) = 3660 km. ca. or 33.0°. | | | | | | | | | |
| | iP | 17 | 31 | 47.2 | 1.1 | | | 12.3D | | |
| | ipP | | 32 | 01.4 | 0.7 | | | 8.5 | | |
| | isP | | 34 | 09.3 | 1.0 | | | 3.0 | | |
| | iPcP | | 31 | 0 | 0.9 | | | 3.9 | | |
| X 18 | C & GS 23-25-20.1; 0.6 S., 91.7W. h about 43 km. Galapagos Islands (P-H) = 4120 km. ca. or 37.1°. | | | | | | | | | |
| | iP | 23 | 32 | 26.3 | 1.1 | | | 3.4C | | |
| X 19 | C & GS 11-04-46.6; 20.2 S., 175.1 W. h about 95 km. Tonga Islands (P-H) = 10,460 km. ca. or 93.6°. | | | | | | | | | |
| | iP | 11 | 17 | 57.7 | 0.9 | | | 2.2C | | |
| 19 | C & GS 20-16-03.6; 11.7 N., 88.1 W. h about 39 km. off coast of Nicaragua. (P-H) = 2740 km. ca. or 24.7°. | | | | | | | | | |
| | iP | 20 | 21 | 25.1 | 0.4 | | | 4.0 | | |
| | i | | 39 | 1 | 0.6 | | | 1.8 | | |
| | iPP | | 22 | 06.0 | 0.9 | | | 1.8 | | |
| | i | | 23 | 4 | 0.9 | | | 1.7 | | |
| 19 | Atomic Device | | | | | | | | | |
| | iP | 21 | 37 | 49.0 | (0.2) | | | 4.1C | | |
| | i | | 54 | 4 | (0.4) | | | 7.1 | | |
| | i | | 57 | 3 | | | | 11.7 | | |
| | i | | 39 | 16.9 | 0.2 | | | 1.0 | | |
| | i | | 30 | 5 | | | | 1.1 | | |
| | l | | 33 | 1 | | | | 0.9 | | |
| | i | | 51 | 7 | | | | 0.7 | | |
| | i | | 40 | 04.2 | 0.5 | | | 0.7 | | |
| X 20 | X iP | 93 | 11 | 44.3 | 0.9 | | | 2.0D | | |
| | i | | 12 | 08.6 | 1.0 | | | 0.6 | | |
| 20 | C & GS 14-11-49.6; 29.3 S., 68.9 W. h about 140 km. La Rioja Province, Argentina; (P-H) = 7500 km. ca. or 67.4°. | | | | | | | | | |
| | iP | 14 | 22 | 40.7 | 1.1 | | | 4.0D | | |
| | i | | 23 | 16.3 | | | | 1.0 | | |

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| Date | Phase | G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|--|------------|---|---|-------------|-----|---|-------------------|-----|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Feb. | | | | | | | | | | |
| 20 | C & GS 16-02-15.0; 6.9 N., 73.1 W. h about 157 km. Colombia. (P-H) = 3840 km. ca. or 34.7°. | | | | | | | | | |
| | iP | 16-08-52.8 | | | 0.9 | | | 2.0C | | |
| | i | 57.9 | | | 0.6 | | | 1.2 | | |
| 20 | C & GS 16-05-44.6; 43.0 N., 144.9 E. h about 55 km. near coast of Hokkaido, Japan. Felt. (P-H) = 9520 km. ca. or 85.7°. | | | | | | | | | |
| | iP | 16-18-14.3 | | | 1.4 | | | 4.5C | | |
| | iPcP | 22.2 | | | 1.3 | | | 3.2 | | |
| | epP | 34.5 | | | 1.0 | | | 3.0 | | |
| | i | 19-33.6 | | | 1.2 | | | 2.3 | | |
| 20 | C & GS 22-02-38.2; 26.1 N., 96.8 E. h about 25 km. northern Burma. (P-H) = 12,920 km. ca. or 116.2°. | | | | | | | | | |
| | iP' | 22-21-25.1 | | | 0.6 | | | 0.7 | | |
| | iP' | 22-49.7 | | | | | | 1.4 | | |
| 21 | C & GS 17-21-57.0; 16.3 N., 93.0 W. h about 80 km. Chiapas, Mexico (P-H) - 2230 km. ca. or 20.1°. | | | | | | | | | |
| | iP | 17-26-23.0 | | | | | | 1.0 | | |
| | i | 27-24.0 | | | 1.0 | | | 1.3 | | |
| | i | 34.0 | | | 0.9 | | | 0.7 | | |
| | i | 29.6 | | | | | | 1.0 | | |
| | i | 28-11.5 | | | | | | 1.0 | | |
| | i | 42.2 | | | 0.9 | | | 0.9 | | |
| | eZE | 29-55.2 | | | 1.8 | 1.2 | | 1.1 | 1.2 | |
| | e | 30-35.4 | | | | | | 0.6 | | |
| 22 | i | 21-36-37.3 | | | | | | 0.7 | | |
| 23 | e | 13-00-34.1 | | | 1.9 | | | 2.1 | | |
| 24 | i(P) | 00-27-31.0 | | | 0.7 | | | 1.5D | | |
| 24 | C & GS 01-03-17.6; 12.2 N., 88.8 W. h about 40 km. off coast of El Salvador Felt: Southern El Salvador. (P-H) = 2650 km. ca. or 24.0°. | | | | | | | | | |
| | iP | 01-08-31.2 | | | 0.6 | | | 3.0C | | |
| | i | 52.2 | | | 1.0 | | | 3.0 | | |
| | iS | 12-07.8 | | | 0.5 | | | 0.7 | | |
| 25 | e | 17-26-05.9 | | | 1.0 | | | 0.2 | | |
| 26 | C & GS 01-13-09.4; 42.0 N., 141.8 E. h about 60 km. south of Hokkaido, Japan. (P-H) = 10,240 km. ca. or 92.2°. | | | | | | | | | |
| | iP | 01-25-50.5 | | | | | | 0.3D | | |
| | isP | 26-31.7 | | | 1.4 | | | 0.7 | | |
| 26 | i(P) | 09-03-09.3 | | | | | | 0.2 | | |
| | i | 04-04.4 | | | | | | 0.7 | | |
| | i(S) | 06-12.5 | | | 1.6 | | | 0.2 | | |

| Date | Phase | G. C. T. | | | Period sec. | | | Trace Amp. (mms.) | | |
|----------------|--|----------|---|------------|-------------|---|------|-------------------|---|------|
| | | h | m | s | Z | E | N | Z | E | N |
| Feb. | | | | | | | | | | |
| 26 (continued) | | | | | | | | | | |
| | i | | | 18.3 | | | 1.7 | | | 0.9 |
| | i | | | 07-21.9 | | | | | | 1.2 |
| 26 | C & GS 13-21-55.0; 27.4 N., 115.1 W. h about 25 km. Baja, California. (P-H) = 2210 km. ca. or 19.9°. | | | | | | | | | |
| | iP | | | 13-26-26.1 | | | 0.9 | | | 0.4C |
| 26 | C & GS 15-55-33.7; 44.7 N., 146.6 E. h about 25 km. Kurile Islands. (P-H) = 9720 km. ca. or 87.5°. | | | | | | | | | |
| | iP | | | 16-08-20.7 | | | 1.3 | | | 0.4C |
| 27 | C & GS 00-04-43.9; 6.0 S., 76.9 W. h about 65 km. northern Peru. (p-H) = 5000 km. ca. or 49.5°. | | | | | | | | | |
| | iP | | | 00-12-54.1 | | | 1.0 | | | 1.0C |
| 27 | iP | | | 06-00-18.5 | | | 0.7 | | | 0.7 |
| | i | | | 40.0 | | | 0.5 | | | 1.2 |
| | i | | | 01-22.1 | | | 1.0 | | | 0.9 |
| 27 | C & GS 12-40-48.9; 37.4 S., 73.2 W. h about 40 km. near coast of central Chile. Mag. $6\frac{1}{4}$ - $6\frac{1}{2}$ (Pas) 6 (Berk.) (P-H) = 8.420 km. ca. or 75.8°. | | | | | | | | | |
| | iP | | | 12-52-29.5 | | | 0.9 | | | 0.4 |
| | i | | | 33.1 | | | | | | 2.1 |
| | iPcP | | | 38.0 | | | 1.2 | | | 2.2 |
| | i | | | 54-05.3 | | | | | | 1.4 |
| | i | | | 39.3 | | | | | | 1.1 |
| | iPP | | | 55-39.4 | | | | | | 1.1 |
| 27 | C & GS 14-03-27.3; 19.2 S., 69.4 W. h about 140 km. northern Chile (P-H) = 6.540 km. ca. or 58.9°. | | | | | | | | | |
| | iP | | | 14-13-19.5 | | | 1.3 | | | 1.2 |
| | ipP | | | 52.1 | | | 0.9 | | | 1.3 |
| 27 | C & GS 14-21-24.5; 2.7 S., 130.1 E. h about 40 km. Cerman Sea. (P-H) = 14,300 km. ca. or 128.7°. | | | | | | | | | |
| | iP' | | | 14-40-27.7 | | | 1.0 | | | 0.7 |
| iP | 10-58-03.8 | 1.0 | | | | | 0.5D | | | |
| 28 | C & GS 13-44-55.8; 9.0 S., 75.2 W. h about 180 km. Peru. (P-H) = 5,330 km. ca. or 48.0°. | | | | | | | | | |
| | iP | | | 13-53-19.7 | | | 1.2 | | | 1.4D |
| 28 | C & GS 18-32-14.4; 19.3 S., 69.6 W. h about 110 km. northern Child. (P-H) = 6,520 km. ca. or 58.7°. | | | | | | | | | |
| | iP | | | 18-42-08.1 | | | 1.0 | | | 0.6C |
| | ipP | | | 35.1 | | | | | | 0.8 |

| Date | Phase | G. C. T. | | | Perior Sec. | | | Trace Amp. (mms.) | | |
|------|-------|----------|---|---|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |

Feb.

28 C & GS 20-34-24.9; 19.4 N., 69.3 W. h about 60 km. near north coast of Dominican Republic. (P-H) = 3,060 km. ca. or 27.4°.

eP 20-49-07.0 1.3 1.5

March 1 C & GS 02-12-37.2; 15.7 S., 74.4 W. h about 62 km. southern Peru. (P-H) = 6,110 km. ca. or 55.0°.

iP 02-22-02.2 1.1 6.5C

ipP 17.9 3.2

isP 21.3 1.1 2.5

iPcP 55.1 1.1 1.8

e 23-03.2 0.7 1.7

i 14.2 0.9 1.7

1 C & GS 07-20-11.4; 51.1 N., 179.1 W. h about 25 km. Andreanof Islands. Aleutian Islands. (P-H) = 6580 km. ca. or 59.2°.

eP 07-30-16.4 1.0 0.5

1 C & GS 18-35-12.9; 40.0 N., 146.2 E. h about 48 km. near east coast of Hokkaido, Japan. (P-H) = 9340 km. ca. or 84.0°.

eP 18-47-42.6 1.0 2.0

1 C & GS 22-20-03.5; 37.3 N., 4.9 W. h about 25 km. near south coast of Spain; (P-H) = 7610 km. ca. or 68.8°.

iP 22-31.07.2 1.2 1.2C

2 C & GS 08-57-19.3; 51.4 N., 178.1 W. h about 34 km. Andreanof Islands. Aleutian Islands (P-H) = 6520 km. ca. or 58.7°.

iP 09-07-21.3 1.1 0.5C

2 C & GS 13-02-59.0; 5.4 N., 126.5 E. h about 30 im. off south coast of Mindanao, P. I. (P-H) = 13,000 km. ca. or 117.0°.

iP' 13-21-57.4 0.6 1.1D

i 22-04.5 0.5

i 18.9 1.2 0.6

e 37.1 1.1 0.8

i 24-34.4 0.9

3 C & GS 10-40-14.8; 55.2 N., 162.5 E. h about 28 km. (P-H) = 7540 km. ca. 67.9°

iP 10-51-14.3 1.2 0.8D

3 C & GS 12-14-52.1; 7.4 N., 126.5 E. h about 90 km. near east coast of Mindanao, P. I. (P-H) = 13,470 km. ca. or 121.4°.

eP' 12-33-40.1 0.5 0.9D

i 54.2 1.0 1.3

i 34-04.2 0.7 1.2

ipP' 10.6 1.0 1.0

| Date | Phase | G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|-------|----------|---|---|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |

March

- 4 C & GS 00-41-39.1; 10.6 S., 75.8 W. h about 20 km. Central Peru.
(P-H) = 5500 km. ca. or 49.5°.
iP 00-50-32.6 1.2 2.0C
- 4 C & GS 11-40-24.5; 67.6 N., 171.4 W. h about 15 km. near N. E. coast of Chukotsky, Penn. U.S.S.R. (P-H) = 5770 km. ca. or 51.9°.
iP 11-49-36.2 1.0 2.0C
- 4 C & GS 16-20-53.5; 36.3 S., 72.9 W. h about 60 km. off coast of central Chile; (P-H) = 8320 km. ca. or 74.9°.
iP 16-32-28.2 1.3 1.0C
- 5 C & GS 01-50-50.6; 16.0 N., 104.9 W. h about 25 km. about 250 miles south of Jalisco, Mex. (P-H) = 2440 km. ca. or 22.0°.
eP 01-55-44.4 1.0 2.1
iPP 56-08.9 1.2 2.0
i 51.0 1.3 1.4
eLEN 02-02-41.9 7.0 7.0 7.5 5.7
- 5 C & GS 03-42-33.3; 4.0 S., 103.3 E. h about 78 km. near south coast of Sumatra. (P-H) = 16,170 km. ca. or 145.4°.
iP' 04-02-03.4 1.4 9.2C
i 15.7 0.9 1.7
eP 04-28-27.1 1.0 0.2
- 5 C & GS 07-44-00.0; 34.6 N., 121.6 W. h about 25 km. off coast of California Mag. 4½ (Pas); 4¼ (Berk) (P-H) = 2480 km. ca. or 22.4°.
iP 07-48-57.5 2.1 1.3C
i 49-09.0 1.3 1.5
i 24.0 1.4
- 5 C & GS 20-57-52.1; 40.3 N., 125.1 W. h about 25 km. off coast of California (P-H) = 2740 km. ca. or 24.7°.
iP 21-03-13.7 1.0 1.2D
i 22.6 1.1 1.6
iPP 04-11.1 1.1
- 6 C & GS 05-55-42.3; 13.7 N., 93.7 E. h about 18 km. Andaman Islands. (P-H) = 13,600 km. ca. or 122.5°.
iP 06-14-54.2 1.5C
ePP 17-17.3 1.0 0.8
iPPP 18-15.6 1.4 1.7
- 6 C & GS 13-12-58.7; 41.9 N., 127.0 W. h about 25 km. off coast of Calif. (P-H) = 2900 km. ca. or 26.9°.
eP 13-18-33.3 1.4 1.2

| Date | Phase | G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|-------|----------|---|---|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |

March

7 C & GS 02-07-11.8; 62.2 N., 26.6 W. h about 43 km. southwest of Iceland
(P-H) = 5400 km. ca. or 48.6°.

i 02-15-50.6 1.2 1.3C

x7 C & GS 11-01-00.4; 19.3 N., 145.3 E. h about 680 km. Mariana Islands.
Mag. 7 (Pas) 6 (Berk) (P-H) = 11,100 km. ca. or 99.9°.

iP 11-13-47.2 3.9D

ipP 55.9 1.3 4.2

i 16-24.9 1.4 2.1

i 34.9 1.4 4.5

isP 17-02.3 0.8 1.5

iPP 41.6 1.0 4.0

iPP 53.1 1.0 2.7

ipPP 20-14.3 0.9 1.5

7 C & GS 15-15-53.1; 51.5 N., 160.6 E. h about 20 km. off southeast coast of
Kamchatka (P-H) - 7,940 km. ca. or

iP 15-27-13.6 1.2 1.5C

i 25.6 1.1 2.4D

8 i 10-30-44.9 1.0 1.5D

11 C & GS 02-26-05.7; 14.8 N., 91.2 W. h about 206 km. Guatemala
(P-H) = 2,360 km. ca. or 21.3°.

iP 02-30-39.3 0.6 0.2D

iP 42.5 0.9 1.1

ipP 31-18.8 0.8 2.3

iPP 37.3 1.0 1.5

i 40.8 0.8 1.5

i 32-40.2 0.9 1.2

i 57.8 0.7 1.0

iPcP 34-36.0 0.8 0.6

isS 35-13.4 0.8 0.8

i 34.3 0.8 0.6

x11 C & GS 15-23-40.7; 52.3 N., 178.0 E. h about 135 km Rat Islands,
Aleutian Islands. (P-H) = 6710 km. ca. or 60.5°.

iP 15-33-44.0 1.0 2.5D

i 49.1 0.7 2.4

ipP 34-25.2 0.6 1.0

x12 C & GS 09-41-45.7; 9.0 N., 83.0 W. h about 113 km. Costa Rica.
(P-H) = 3220 km. ca. or 29.0°.

iP 09-47-38.7 1.5 2.5D

ipP 48-03.9 1.5 4.9

x12 C & GS 11-40-12.8; 8.1 N., 83.0 W. h about 58 km near south coasts of
Panama and Costa Rica mag. 6 3/4 (Pas) 6 1/4-6 1/2 (Pal) (P-H) = 3330 km. ca.
30.0°.

iPZEN 11-46-16.2 0.8 0.8D

ipP 22.9 1.5 14.9

| Date | Phase | G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|-------|---|---|----|------|-------------|-----|-----|-------------------|-----|-----|
| | | h | m | s | Z | E | N | Z | E | N |
| March | | | | | | | | | | |
| 12 | iP | 12 | 21 | 56.0 | 1.0 | | | 2.4 | C | |
| 12 | i | 23 | 06 | 34.1 | 1.0 | | | 0.7 | C | |
| 13 | i | 05 | 20 | 30.6 | 0.6 | | | 1.2 | C | |
| 13 | Underground atomic device probably in Nevada. | | | | | | | | | |
| | iP | 21 | 55 | 45.2 | 0.2 | | | 4.0 | | |
| | iZEN | | | 51.0 | | 0.6 | 0.6 | 3.5 | 3.5 | 2.5 |
| | e | | | 53.6 | | | | 41.5 | | |
| | e | | | 46.6 | | | | 22 | | |
| 14 | e | 12 | 32 | 52.5 | | | | 0.7 | | |
| 15 | iP | 00 | 43 | 58.3 | 0.6 | | | 0.9 | C | |
| | i | | 44 | 10.3 | 0.9 | | | 1.3 | | |
| | e | | | 26.2 | | | | 0.8 | | |
| X | 15 | C & GS 01-51-19.4; 45.7 N., 151.3 E. h about 43 km. Kurile Islands region (P-H) = 6880 km. ca. or 61.9°. | | | | | | | | |
| | | eP | 02 | 03 | 26.2 | 0.7 | | 0.1 | | |
| | 15 | iP | 04 | 45 | 35.4 | 0.7 | | 1.2 | C | |
| | 15 | e(P) | 14 | 56 | 55.3 | | | 0.5 | | |
| | 15 | C & GS 21-13-04.1; 7.1 S., 106.1 E. h about 83 km. near south coast of Java. (P-H) = 16,280 km. ca. or 146.3°. | | | | | | | | |
| | | iP' | 21 | 32 | 37.2 | 1.1 | | 4.5 | (D) | |
| | | i | | | 43.8 | | | 1.7 | | |
| | | i | | | 48.7 | 0.7 | | 1.4 | | |
| | | i | | | 33-21.9 | 1.0 | | 1.5 | | |
| | | i | | | 50.7 | 1.0 | | 1.2 | | |
| X | 16 | eP | 20 | 00 | 52.5 | | | 0.7 | | |
| | 16 | i | 22 | 22 | 41.5 | | | 5.6 | | |
| | 17 | C & GS 17-57-04.5; 17.75, 177.4 W. h about 673 km. Tonga Islands region (P-H) = 11,370 km. ca. or 102.3°. | | | | | | | | |
| | | eP | 18 | 09 | 59.9 | 0.9 | | 0.6 | | |
| X | 17 | C & GS 20-47-31.7; 10.6 N., 43.7 W. h about 25 km. north Atlantic Ocean. (P-H) = 4,910 km. ca. or 44.2°. | | | | | | | | |
| | | iP | 20 | 56 | 43.4 | 0.9 | | 0.8 | C | |
| | | i | | | 57-05.9 | 2.0 | | 5.5 | | |
| | | i | | | 14.1 | 1.6 | | 6.0 | | |
| | | i | | | 44.1 | 1.0 | | 6.7 | | |
| | | i | | | 58-08.7 | 0.7 | | 4.3 | | |
| | | iPcP | | | 29.9 | 1.5 | | 2.3 | | |
| | | i | 21 | 01 | 31.3 | 2.6 | | 2.0 | | |

| Date | Phase | G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|--------------|--|------------|---|---|-------------|-----|---|-------------------|-----|---|
| | | h | m | s | Z | E | N | Z | E | N |
| March | | | | | | | | | | |
| X 18 | C & GS 05-28-21.3; 40.6 N., 142.4 E. h about 33 km. off coast of northern Houshu, Japan. (P-H) = 9,760 km. ca. or 87.8°. | | | | | | | | | |
| | iP | 05-41-09.6 | A | | 1.5 | | | 2.0C | | |
| X 18 | C & GS 15-30-31.6; 40.6 N., 19.6 E. h about 25 km. southern Albania, 15 dead, 154 injured moderate damage. (P-H) = 9,180 km. ca. or 82.6°. | | | | | | | | | |
| | eP | 15-42-53.2 | A | | 1.0 | | | 1.5C | | |
| X 19 | iP | 06-13-21.6 | | | 0.8 | | | 0.7C | | |
| | i(pP) | 30.7 | | | 1.0 | | | 10.2 | | |
| | i | 14-54.2 | | | | | | 1.5 | | |
| | i | 15-40.3 | | | 1.7 | | | 5.5 | | |
| | i | 16-40.6 | | | 1.9 | | | 8.0 | | |
| 19 | i | 07-17-54.3 | | | 0.6D | | | 1.1 | | |
| 19 | C & GS 14-00-08.9; 2.3 S., 77.1 W. h about 119 km. Eastern Ecuador (P-H) = 4520 km. ca. or 40.8°. | | | | | | | | | |
| | iP | 14-07-44.6 | | | 1.0 | | | 0.7 | | |
| | e | 52.1 | | | 1.0 | | | 1.0 | | |
| 19 | C & GS 20-57-24.2; 4.3 S., 103.1 E. h about 100 km. near south coast of Sumatra. (P-H) = 15,380 km. ca. or 138.5°. | | | | | | | | | |
| | iP | 21-13-54.3 | | | 1.5 | | | 1.3C | | |
| 19 | iP | 21-16-49.0 | | | 1.0 | | | 6.2C | | |
| 20 | C & GS 01-36-30.3; 15.8 N., 94.5 W. h about 25 km. Gulf of Tehuantepec. (P-H) = 2240 km. ca. or 20.1°. | | | | | | | | | |
| | iP | 01-41-04.9 | | | 0.6 | | | 0.5D | | |
| 20 | C & GS 10-03-58.3; 27.9 N., 111.2 W. h about 25 km. Gulf of California. (P-H) = 1,840 km. ca. or 16.6°. | | | | | | | | | |
| | eP | 10-07-51.3 | | | | | | 0.1 | | |
| | iLZEN | 12-54.2 | | | 3.0 | 3.2 | | 1.3 | 6.3 | |
| 20 | e | 11-11-33.7 | | | 1.2 | | | 0.5 | | |
| 20 | C & GS 16-31-48.3; 50.8 N., 129.7 W. h about 25 km. Queen Charlotte Sound area. (P-H) = 3210 km. ca. or 29.0°. | | | | | | | | | |
| | iP | 16-37-50.6 | | | 0.8 | | | 0.3 | | |
| 20 | iP | 20-42-35.6 | | | | | | 0.7 | | |
| | e(s) | 45-35.1 | | | | | | 0.9 | | |
| 21 | C & GS 01-53-13.3; 62.1 N., 152.7 W. h about 122 km. Southern Alaska. (P-H) = 4830 km. ca. or 43.5°. | | | | | | | | | |
| | iP | 02-01-11.4 | | | | | | 0.5 | | |
| | epP | 36.5 | | | | | | 0.4 | | |

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | | 20 |
|-------|----------------|--|----|------|-------------|---|---|-------------------|---|---|----|
| | | h | m | a | Z | E | N | Z | E | N | |
| March | | | | | | | | | | | |
| | 21 (continued) | | | | | | | | | | |
| | isP | 02 | 01 | 53.5 | 1.5 | | | 0.5 | | | |
| | i | 02 | 54 | 0 | 1.2 | | | 0.5 | | | |
| | 21 | C & GS 06-11-26.2; 4.4 S., 80.7 W. h about 78 km. near coast of Peru. (P-H) = 4670 km. ca. or 42.0°. | | | | | | | | | |
| | iP | 06 | 19 | 13.7 | 1.3 | | | 1.9D | | | |
| | ipP | | 34 | 9 | 1.1 | | | 1.7 | | | |
| X | 21 | C & GS 22-57-51.2; 5.9 S., 113.0 E. h about 631 km. Java Sea. (P-H) = 15,370 km. ca. or 138.5°. | | | | | | | | | |
| | iP' | 23 | 16 | 10.9 | 0.7 | | | 10.2D | | | |
| | iSKP | | 18 | 57.0 | | | | 6.5 | | | |
| | ePP | | 19 | 20.8 | 1.5 | | | 7.5 | | | |
| | isP' | | | 29.7 | 2.0 | | | 5.5 | | | |
| | esPP | | 22 | 25.1 | 1.3 | | | 1.0 | | | |
| | 21 | i(P) 23-28-39.4 0.8 1.8C | | | | | | | | | |
| X | 22 | C & GS 00-19-43.1; 5.9 S., 112.9 E. h about 611 km. Java Sea. (P-H) = 15,660 km. ca. or 141.0°. | | | | | | | | | |
| | iP | 00 | 35 | 30.9 | 0.6 | | | 0.5 | | | |
| | iP' | | 38 | 04.0 | 0.6 | | | 3.5 | | | |
| | iSKP | | 40 | 30.9 | 0.7 | | | 3.2 | | | |
| X | 22 | iP 00-54-30.4 8.7D | | | | | | | | | |
| | e | | 55 | 01.4 | 1.1 | | | 2.0 | | | |
| | i | | 54 | 4 | 1.0 | | | 1.5 | | | |
| | 22 | C & GS 01-50-52.4; 18.9 S., 173.1 W. h about 60 km. Fiji Islands. (P-H) = 10,320 km. ca. or 92.9°. | | | | | | | | | |
| | i | 02 | 03 | 57.9 | 1.4 | | | 0.9C | | | |
| | 22 | i(P) 06-44-35.4 1.0 0.2 | | | | | | | | | |
| | 22 | iP 12-18-08.1 1.2 2.0C | | | | | | | | | |
| X | 22 | C & GS 15-13-03.9; 3.2 S., 142.3 E. h about 25 km. near north coast of New Guinea Mag. 5 3.4 (Brk). (P-H) = 12,600 km. ca. or 113.5°. | | | | | | | | | |
| | eP' | 15 | 31 | 52.0 | | | | 1.3D | | | |
| X | 22 | C & GS 18-59-00.8; 28.1 S., 67.5 W. h about 217 km. Catamarca Province, Argentina. (P-H) = 7,530 km. ca. or 67.8°. | | | | | | | | | |
| | iP | 19 | 09 | 41.9 | 1.4 | | | 7.1D | | | |
| | ePcP | | 10 | 12.4 | 1.3 | | | 3.2 | | | |
| | ipP | | 34 | 9 | 0.8 | | | 1.9 | | | |
| | 22 | C & GS 20-50-24.9; 15.7 S., 68.7 W. h about 100 km. Bolivia. (P-H) = 6,280 km. ca. or 56.3°. | | | | | | | | | |
| | iP | 21 | 00 | 01.3 | 1.1 | | | 4.0D | | | |

| Date | Phase | G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|-------|---|----------|----|---------|-------------|---|---|-------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| March | | | | | | | | | | |
| 23 | e | 04 | 20 | 14.8 | 0.7 | | | 0.7 | | |
| 23 | i | 05 | 05 | 10.1 | 0.6 | | | 0.7C | | |
| 23 | C & GS 05-34-40.5; 38.0 S., 72.8 W. h about 67 km. near coast of southern Chile. (P-H) = 8,450 km. ca. or 76.0°. | | | | | | | | | |
| | iP | 05 | 46 | 22.7 | 1.2 | | | 2.0D | | |
| 23 | i | 19 | 05 | 56.2 | 1.7 | | | 0.8 | | |
| 23 | e | 19 | 08 | 42.5 | 2.5 | | | 0.7 | | |
| 23 | i(P) | 19 | 53 | 08.0 | | | | 0.3D | | |
| 24 | iP | 13 | 18 | 08.2 | 0.9 | | | 0.2D | | |
| X 24 | C & GS 12-59-30.9; 5.7 S., 145.0 E. h about 111 km. near north coast of New Guinea. (P-H) = 14,180 km. ca. or 127.6°. | | | | | | | | | |
| | eP' | 13 | 28 | 32.2 | 0.9 | | | 0.3 | | |
| | i | 06 | 41 | 36.8 | 1.1 | | | 1.0C | | |
| 25 | C & GS 08-12-38.0; 51.2 N., 169.8 W. h about 45 km. Fox Islands, Aleutian Islands. (P-H) = 6,120 km. ca. or 55.1°. | | | | | | | | | |
| | iP | 08 | 22 | 02.4 | | | | 1.2D | | |
| | ipP | | | 13.5 | 0.9 | | | 1.0 | | |
| | iPcP | | | 23-06.4 | | | | 0.9 | | |
| 25 | C & GS 15-28-45.9; 6.8 N., 73.1 W. h about 112 km. northern Colombia. (P-H) = 3,820 km. ca. or 34.7°. | | | | | | | | | |
| | iP | 15 | 35 | 29.5 | 0.8 | | | 2.5C | | |
| 25 | iP | 18 | 36 | 37.6 | 0.6 | | | 0.7C | | |
| | i | | | 07.0 | | | | 0.8 | | |
| 25 | i | 19 | 34 | 28.8 | | | | 0.2 | | |
| | i | | | 36.9 | | | | 1.1 | | |
| | e | | | 35-22.0 | | | | 7.5 | | |
| 26 | iP | 10 | 42 | 03.1 | 0.9 | | | 0.9C | | |
| X 26 | C & GS 12-04-54.6; 0.5 S., 19.2 W. h about 25 km. Mid-Atlantic Ocean. (P-H) = 8,730 km. ca. or 78.4°. | | | | | | | | | |
| | iP | 12 | 16 | 54.0 | 1.2 | | | 2.0C | | |
| X 26 | C & GS 16-32-43.6; 40.6 S., 73.3 W. h about 32 km. near coast of southern Chile. (P-H) = 8,730 km. ca. or 78.4°. | | | | | | | | | |
| | iP | 16 | 44 | 42.9 | 2.0 | | | 5.6D | | |
| X 27 | eP | 05 | 44 | 25.8 | | | | 0.1 | | |

| Date | Phase | Time J. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|--------------|--------|--|---|---|-------------|---|---|---------------------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| March | | | | | | | | | | |
| 27 | C & GS | 10-10-26.1; 44.1 N., 147.3 E. h about 31 km. Kurile Islands. | | | | | | (P-H) = 9,160 km. ca. or 82.4°. | | |
| | iP | 10-22-47.0 | | | 1.0 | | | 0.8 | | |
| 27 | eP | 19-25-01.1 | | | | | | 0.6D | | |
| X 27 | C & GS | 21-19-29.4; 16.9 N., 99.9 W. h about 25 km. Guerrero, Mexico. | | | | | | (P-H) = 2260 km. ca. or 20.3°. | | |
| | ePZEN | 21-24-05.1 | | | 1.0 1.2 2.8 | | | 0.5 3.7 | | |
| | eLE | 30-16.1 | | | 3.8 | | | 2.3 | | |
| | eLN | 22.1 | | | | | | 2.5 | | |
| 28 | i | 10-58-18.4 | | | | | | 0.8C | | |
| 28 | C & GS | 14-14-45.2; 19.4 N., 108.6 W. h about 43 km. off coast of Jalisco, Mexico. | | | | | | (P-H) = 2390 km. ca. or 21.7°. | | |
| | iP | 14-19-28.2 | | | 0.8 | | | 0.8C | | |
| 29 | C & GS | 01-52-25.4; 51.8 N., 157.2 E. h about 155 km. near south coast of Kamchatka. | | | | | | (P-H) = 8,100 km. ca. or 72.9°. | | |
| | iP | 02-03-37.4 | | | 0.6 | | | 3.0D | | |
| | ipP | 04-09.3 | | | 0.8 | | | 0.9 | | |
| 29 | C & GS | 02-07-02.5; 58.6 N., 137.4 W. h about 25 km. Lituya Bay, Alaska region. | | | | | | (P-H) = 3980 km. ca. or 35.9°. | | |
| | iP | 03-14-06.8 | | | 1.1 | | | 1.4C | | |
| 30 | iP | 06-58-24.0 | | | 1.2 | | | 0.9 | | |
| 30 | e | 08-19-26.9 | | | 0.8 | | | 0.5 | | |
| 31 | iP | 02-31-55.0 | | | 0.7 | | | 0.3D | | |

The University of Arkansas Seismograph Station is located on the University Farm, 2.5 miles northwest of the main campus at Fayetteville. Coordinates of the station are $36^{\circ} 05.46''$ north latitude and $94^{\circ} 11.47'$ west longitude. Altitude above mean sea level is 1,325 feet. The seismometer pier rests on the Boone limestone of lower Mississippian age. Approximately 2,500 feet of limestone, shale and sandstone overlie the pre-Cambrian crystalline rocks in the vicinity of the station.



University of Arkansas
Seismograph Station
Department of Geology
Fayetteville, Arkansas

Copied

1962

UNIVERSITY OF ARKANSAS SEISMOLOGICAL BULLETIN

Volume XI

~~16 MAY 1962~~

Number 2



The University Of Arkansas Seismograph Station

Operated by the University's Department of Geology
in conjunction with the
United States Coast and Geodetic Survey

FAYETTEVILLE SEISMOGRAPH STATION

Volume 11, Number 2, September 1962
Date for April, May, July, August, September, 1962

Instruments

Vertical component - Benioff moving coil type, short period electromagnetic-galvanometric, Mass = 100 lbs.

Seismometer-Benioff moving coil period = 1.1 second

Galvanometer-Geotechnical Corp. period = 0.2 second

Damping ratio - about 15:1 (near critical)

Recording drum speed = 60 mm. per minute

Horizontal components - Wilson - Wilson-Lamison hinges type: E-W
N-S electromagnetic - galvanometric

Seismometer period - 6.0 seconds (N-S)

6.0 seconds (E-W)

Galvanometer-General Electric period - 4.1 seconds (N-S)

3.8 seconds (E-W)

Recording drum speed - 30 mm. per minute

Clock - IBM, electrically wound, invar pendulum type.
accuracy limits generally within one tenth second.

Radio - WWV Time Signal impressed manually by telegraph key on 5th, 10th, and 15th second. Time signals received by a Hallicrafter receiver, S-40B.

Vertical-Ground motion trace up (compression)

reading from left to right

N-S - Ground motion trace up - North

E-W - Ground motion trace up - East

(Additional information regarding the station is given on the back cover.)

Information in Remarks column is usually from U. S. Coast and Geodetic Survey epicenter cards. "C" following the trace amplitude indicates a compressional motion of the wave; "D" indicates dilation.

Bulletin compiled by Doy L. Zachry,
Observer

| Date | Phase | Time G. C. T. | | | Period Sec. | | | Trace Amp. (mms.) | | | 1 |
|-------|--------------|--|---|---|-------------|---|---|-------------------|---|---|---|
| | | h | m | s | Z | E | N | Z | E | N | |
| April | | | | | | | | | | | |
| 3 | C & GS | 01-21-34.8, 9.6 S., 74.7 W. h about 125 km. Peru. | | | | | | | | | |
| | | (P-H) = 5380 km or 48.5°. | | | | | | | | | |
| | iP | 01-30-11.1 | | | 1.1 | | | 1.4D | | | |
| 3 | iP | 06-12-56.9 | | | 0.8 | | | 0.9C | | | |
| 4 | iP | 10-49-13.9 | | | 0.6 | | | 0.4C | | | |
| +4 | C & GS | 14-02-32.2; 8.0 N., 83.0 W., h about 23 km. Near south coasts of Panama and Costa Rica (P-H) = 3280 ca or 29.7°. | | | | | | | | | |
| | iP | 14-08-39.4 | | | | | | 1.5D | | | |
| 4 | Atomic shot? | | | | | | | | | | |
| | iP | 22-30-30.3 | | | | | | 4.6 | | | |
| | iZE | 36.0 | | | 0.3 0.7 | | | 12 3.8 | | | |
| | i | 39.3 | | | | | | 16.5 | | | |
| | i(s) | 41.6 | | | | | | 23.2 | | | |
| | i | 46.2 | | | | | | 8.7 | | | |
| 5 | C & GS | 03-40-08.9; 53.7 N., 163.6 W. h about 65 km. Unimak Island region | | | | | | | | | |
| | | IP-H) = 5100 ca or 45.9°. | | | | | | | | | |
| | iP | 03-49-01.3 | | | 1.0 | | | 0.9C | | | |
| 5 | e | 06-17-34.0 | | | | | | 0.5 | | | |
| 5 | C & GS | 12-24-34.5; 44.9 S., 75.3 W. h about 25 km. Near coast of southern Chile. (P-H) = 9090 km. ca. or 81.8°. | | | | | | | | | |
| | iP | 12-36-53.6 | | | 1.1 | | | 1.2C | | | |
| 5 | C & GS | 18-10-23.9; 5.2 S., 102.1 E., h about 36 km. off coast of Sumatra. (P-H) = 12,390 ca. or 111.5°. | | | | | | | | | |
| | iPP | 18-30-01.7 | | | 1.4 | | | 0.7 | | | |
| 5 | iP | 18-57-11.7 | | | 0.6 | | | 1.7D | | | |
| +6 | C & GS | 16-50-14.2; 26.7 S., 113.2 W. h about 33 km. Easter Island region | | | | | | | | | |
| | | (P-H) = 7200 km. or 64.9°. | | | | | | | | | |
| | iP | 17-00-55.0 K | | | 1.9 | | | 3.0D | | | |
| +7 | iP | 06-22-02.0 | | | 1.0 | | | 0.4C | | | |
| | i | 21.8 | | | | | | 1.5 | | | |
| | CE | 25-43.0 | | | | | | 0.1 | | | |
| 7 | iP | 08-54-46.0 | | | 0.7 | | | 1.3C | | | |
| | e | 58-22.6 | | | 0.6 | | | 1.0 | | | |

| Date | Phase | Time G.C.T. | | | Period Sec. | | | Trace Amp. (mms.) | | | 2 |
|-------|--|-------------|----|------|-------------|---|---|-------------------|---|---|---|
| | | h | m | s | Z | E | N | Z | E | N | |
| April | C & GS 13-00-26.3; 35.1 S., 70.8 W. h about 108 km. Central Chile (P-H) = 8110 km. ca. or 73.0°. | | | | | | | | | | |
| 7 | i | 13 | 11 | 52.2 | 0.5 | | | 1.2D | | | |
| 7 | eP | 18 | 48 | 10.5 | | | | 0.4 | | | |
| +7 | C & GS 23-04-12.2; 15.0 N., 60.5 W. h about 77 km. Windward Islands (P-H) = 4030 km. ca. or 36.2°. | | | | | | | | | | |
| | iP | 23 | 11 | 13.3 | 1.2 | | | 1.7C | | | |
| | ipP | 23 | 11 | 29.3 | 1.0 | | | 4.6 | | | |
| 8 | C & GS 21-50-28.9; 15.6 N., 99.6 W. h about 48 km. off coast of Mexico (P-H) = 2410 km. ca. or 21.7°. | | | | | | | | | | |
| | iP | 21 | 55 | 13.9 | 0.8 | | | 11.5C | | | |
| | iPP | | | 48.0 | 0.8 | | | 4.2 | | | |
| | i | 56 | 37 | 5 | 1.2 | | | 1.2 | | | |
| 9 | iP | 02 | 28 | 48.4 | 1.0 | | | 0.6C | | | |
| 9 | e | 04 | 38 | 50.8 | 0.9 | | | 0.1 | | | |
| 9 | eP | 07 | 46 | 03.5 | 0.9 | | | 0.3 | | | |
| +9 | C & GS 08-54-22.7; 8.6 S., 124.1 E. h about 46 km. Sarvoe Sea (P-H) = 10,490 km. ca. or 94.4°. | | | | | | | | | | |
| | ePPP | 08 | 13 | 33.5 | | | | | | | |
| | iS | 09 | 17 | 05.6 | | | | | | | |
| +10 | C & GS 04-36-27.5; 28.6 S., 68.8 W. h about 130 km. Chile-Argentina border. (P-H) = 7380 km. ca. or 66.4°. | | | | | | | | | | |
| | iP | 04 | 47 | 17.4 | 1.0 | | | 13.7C | | | |
| | e | | | 39.7 | 1.0 | | | 2.8 | | | |
| | ePcP | 48 | 02 | 7 | 1.1 | | | 7.8 | | | |
| | iPP | 49 | 41 | 7 | 1.1 | | | 1.8 | | | |
| +10 | C & GS 10-31-58.5; 51.1 N., 157.7 E. h about 33 km. near coast of Kamchatka. (P-H) = 9040 km. ca. or 81.4°. | | | | | | | | | | |
| | iP | 10 | 43 | 27.2 | 1.2 | | | 4.1C | | | |
| | e | | | 40.9 | 1.0 | | | 1.8 | | | |
| 10 | e | 12 | 22 | 38.8 | 1.0 | | | 0.7 | | | |
| 10 | C & GS 12-34-50.8; 37.3 S., 72.6 W. h about 67 km. near coast of southern Chile. Slight damage. (P-H) = 8330 km. ca. or 75°. | | | | | | | | | | |
| | eP | 12 | 46 | 33.6 | 1.0 | | | 0.9 | | | |
| 10 | C & GS 14-30-46.4; 44.1 N., 73.1 W. h about 25 km. Western Vermont. Felt in 3 states. Slight damage at Montpelier. (P-G) = 1990 km. ca. or 17.9°. | | | | | | | | | | |
| | e(P) | 14 | 34 | 55.0 | | | | 0.1 | | | |

| Date | Phase | Time G.C.T. | | | Period Sec. | | | Trace Amp. (mms.) | | | 3 |
|----------------|---|-------------|------|------|-------------|------|---|-------------------|---|------|---|
| | | h | m | s | Z | E | N | Z | E | N | |
| April | | | | | | | | | | | |
| 10 (continued) | | | | | | | | | | | |
| | i | 14 | 40 | 14.0 | 0.8 | | | 3.0 | | | |
| | i | | 25.2 | | 0.6 | | | 2.8 | | | |
| 10 | eP | 18 | 59 | 11.5 | 1.2 | | | 0.2 | | | |
| | i | 19 | 01 | 48.5 | 1.0 | | | 1.0 | | | |
| | i | | 02 | 10.4 | 1.1 | | | 2.0 | | | |
| 10 | iP | 20 | 14 | 48.9 | 1.1 | | | 0.2 | | | |
| | i | | 15 | 14.4 | 0.7 | | | 1.5 | | | |
| +10 | C & GS 21-37-12.6; 27.9 N., 20.1 E. h about 35 km. Ionian Sea. Mag. 5-5 $\frac{1}{4}$ (Pal) (P-H) = 9390 km. ca. or 84 $^{\circ}$. | | | | | | | | | | |
| | iP | 21 | 49 | 44.0 | 1.0 | | | 1.9C | | | |
| +11 | C & GS 10-47-34.0; 38.2 N., 20.0 E. h about 43 km. Ionian Sea (P-H) = 9390 km. ca. or 84 $^{\circ}$. | | | | | | | | | | |
| | iP | 11 | 00 | 05.4 | 0.7 | | | 1.0C | | | |
| 11 | C & GS 23-21-26.3; 0.2 S., 91.5 W. h about 25 km. Galapagos Islands (P-H) = 3990 km. ca. or 25.9 $^{\circ}$. | | | | | | | | | | |
| | iP | 23 | 28 | 28.7 | 1.3 | | | 2.0D | | | |
| | e | | 54.0 | | 0.9 | | | 1.3 | | | |
| +12 | C & GS 00-52-47.0; 38.2 N., 142.3 E. h about 68 km. near east coast of Honshu, Japan. Mag. 7-7 $\frac{1}{4}$ (Pas) 6 $\frac{3}{4}$ -7 (Pal) (P-H) = 9800 km. ca. or 88.1 $^{\circ}$. | | | | | | | | | | |
| | iPZN | 01 | 05 | 36.9 | 0.7 | 5.0 | | 2.5C | | 2.9 | |
| | iPcPZN | | 06 | 42.8 | 2.0 | 4.0 | | 7.0 | | 3.7 | |
| | IN | | 07 | 42.5 | | 3.6 | | | | 2.5 | |
| | i | | 49.4 | | 0.9 | | | 2.5 | | | |
| | eSN | | 16 | 25.5 | | 7.4 | | | | 26.5 | |
| | eCL _g l | | 41 | 08.5 | | 38.0 | | | | 16.8 | |
| | eLr | 02 | 02 | 12.5 | 11 | | | 0.4 | | | |
| +12 | iP | 05 | 44 | 01.0 | 0.7 | | | 0.3 | | | |
| | i | | 22.9 | | | | | 1.1 | | | |
| 12 | C & GS 11-20-02.3; 10.4 S., 105.0 E. h about 84 km. South of Java (P-H) = 12,890 km. ca. or 116 $^{\circ}$. | | | | | | | | | | |
| | iPP | 11 | 39 | 44.1 | | | | 1.5C | | | |
| | ipP | | 48.9 | | | | | 1.7 | | | |
| | iPcP | | 40 | 06.5 | | | | 1.0 | | | |
| 12. | iP | 11 | 43 | 50.0 | | | | 1.0C | | | |
| | i | | 54.5 | | | | | 0.7 | | | |
| | i | | 44 | 05.8 | 0.6 | | | 0.6 | | | |

| Date | Phase | Time G.C.T. | | | Period Sec. | | | Trace Amp. (mms.) | | | 4. |
|-------|--|-------------|----|---------|-------------|------|------|-------------------|------|------|----|
| | | h | m | s | Z | E | N | Z | E | N | |
| April | | | | | | | | | | | |
| 12 | C & GS 16-36-08.4; 28.7 S., 71.9 W. h about 34 km. near coast of northern Chile. (P-H) = 7420 km. ca. or 66.7°. | | | | | | | | | | |
| | iP | 16 | 47 | 03.0 | 1.2 | | | 4.3C | | | |
| | i | | | 13.9 | 1.0 | | | 1.5 | | | |
| 13 | C & GS 15-38-47.3; 38.4 N., 119.2 W. h about 25 km California-Nevada border Felt: Northern Nevada area Mag. 4 3/4-5 (Pas) (P-H) = 2230 km. ca. or 20.1°. | | | | | | | | | | |
| 14. | C & GS 07-53-17.1; 40.3 N., 125.1 W. h about 25 km. off coast of northern California. (P-H) = 2700 km. ca. or 24.5°. | | | | | | | | | | |
| | iP | 07 | 58 | 34.4 | 0.7 | | | 0.8 | | | |
| + 14 | C & GS 16-50-05.8; 38.2 N., 142.5 E. h about 53 km. off east coast of Honshu, Japan. (P-H) = 9830 km. ca. or 88.5°. | | | | | | | | | | |
| | eP | 17 | 02 | 58.0 | 0.7 | | | 0.8D | | | |
| 15 | eP | 02 | 45 | 15.2 | 0.9 | | | 0.3 | | | |
| + 15 | C & GS 07-32-14.8; 36.2 N., 140.6 E. h about 123 km. Houshu, Japan. Felt: Toyka. (P-H) = 10,130 km. ca. or 91.2°. | | | | | | | | | | |
| | eP | 07 | 45 | 25.0 | 0.9 | | | 1.1 | | | |
| + 15 | C & GS 18-08-27.3; 2.7 S., 11.6 W. h about 25 km Ascension Island region (P-H) = 9410 km. ca. or 84.7°. | | | | | | | | | | |
| | eP | 18 | 20 | 60.2 | 1.7 | | | 2.5 | | | |
| 16 | eP | 13 | 28 | 09.4 | 1.0 | | | 0.8 | | | |
| + 16 | C & GS 13-20-15.1; 30.6 N., 140.6 E. h about 176 km. south of Honshu, Japan (P-H) = 10,010 km. ca. or 90°. | | | | | | | | | | |
| | eP | 13 | 33 | 18.2 | 1.1 | | | 4.1D | | | |
| | e | | | 25.9 | 0.9 | | | 2.0 | | | |
| | e | | | 48.5 | | | | 1.7 | | | |
| | ePP | | | 37-14.0 | | | | 1.3 | | | |
| + 18 | C & GS 19-14-37.2; 10.0 S., 79.0 W. h about 39 km. off coast of Peru. Felt: Casma, Peru Mag. 6 3/4 (Pas) (P-H) = 5190 km. ca. or 46.5° | | | | | | | | | | |
| | iPZEN | 19 | 23 | 13.6 | 1.1 | 5.0 | 5.0 | 32 | 6.3 | 12 | |
| | iEN | | | 27.2 | | 5.0 | 5.2 | | 11.9 | 15.7 | |
| | iPeP | | | 24-29.6 | | | | 15.8 | | | |
| | iPP | | | 25-03.0 | 1.1 | | | 7.3 | | | |
| | iSZEN | | | 30-12.0 | 3.0 | 8.0 | 7.2 | 7.3 | 50 | 48 | |
| | eLN | | | 37-26.7 | | | 33.0 | | | 5.8 | |
| | eLE | | | 39-06.7 | | 36.0 | | | 2.7 | | |
| 19 | iP | 23 | 46 | 33.9 | 0.6 | | | 3.0D | | | |
| | i | | | 47-44.0 | | | | 0.8 | | | |

| Date | Phase | Time G.C.T. | | | Period Sec. | | | Trace Amp. (mms.) | | | 5 |
|-------|---|--------------|---|---|-------------|------|------|-------------------|------|-----|---|
| | | h | m | s | Z | E | N | Z | E | N | |
| April | | | | | | | | | | | |
| + 19 | C & GS 02-05-59.4; 38.5 N., 20.5 E. h about 25 km. Ionian Sea (P-H) = 9400 km. ca. or 84.7°. | | | | | | | | | | |
| | i | 02-18-31.5 | | | 1.3 | | | 0.8 | | | |
| 19 | C & GS 02-18-55.9; 9.8 S., 78.9 W. h about 23 km. off coast of Peru (P-H) = 5220 km. ca. or 47°. | | | | | | | | | | |
| | iP | 02-27-35.8 | | | 0.9 | | | 2.7C | | | |
| | i | 49.0 | | | 1.3 | | | 3.7 | | | |
| 19 | C & GS 20-18-20.5; 9.4 S., 79.0 W. h about 25 km. off east coast of Peru (P-H) = 5200 km. ca. or 46.9°. | | | | | | | | | | |
| | iP | 20-26-57.1 | | | 1.1 | | | 4.4C | | | |
| | i | 27-19.5 | | | 1.3 | | | 3.1 | | | |
| | ePcP | 38-06.0 | | | | | | 1.7 | | | |
| + 19 | C & GS 23-16-04.1; 69.8 N., 138.6 E. h about 0 km. Siberia, U.S.S.R. (P-H) = 7,500 km. ca. or 68.0°. | | | | | | | | | | |
| | iPZEN | 23-27-01.7 | | | 0.9 | 1.6 | 2.0 | 4.2 | 0.9 | 1.6 | |
| | e | 27-34.1 | | | 1.1 | | | 4.1 | | | |
| | eLZEN | 55-17.7 | | | 1.1 | 14.4 | 15.8 | 1.0 | 26.8 | 5.0 | |
| + 20 | C & GS 05-47-55.3; 20.6 N., 72.2 W. h about 25 km near north coast of Haiti Minor damage at Port-au-Prince Felt: San Juan Puerto Rice mag. 6½-6¾ (Pas) 6¾-7 (Berk) 6 (Pal) (P-H) = 2720 km. ca. or 24.5°. | | | | | | | | | | |
| | iPZEN | 05-53-17.6 | | | 4.0 | 4.0 | | 4.5 | 88 | 17 | |
| | iSE | 57-38.7 | | | 7.6 | | | 118 | | | |
| | eSN | 43.9 | | | | 6.4 | | | 109 | | |
| | e | 06-01-07.9 | | | 1.8 | | | 21.7 | | | |
| | eL | 05-03.9 | | | 4.5 | | | 8.4 | | | |
| 20 | iP | 06-26-24.4 | | | 1.3 | | | 1.7C | | | |
| 21 | iP | 02-19-04.6 | | | 0.7 | | | 1.0D | | | |
| + 22 | C & GS 04-29-39.0; 44.2 S., 72.6 W. h about 120 km. near Chile-Argentina border. (P-H) = 9020 km. ca. or 81°. | | | | | | | | | | |
| | iP | 04-41-47.7 A | | | 1.1 | | | 4.0C | | | |
| + 22 | C & GS 04-45-20.3; 15.5 N., 93.1 W. h about 69 km. near coast of Chiapas, Mexico. Mag. 5¼-5½ (Pal) (P-H) = 2210 km. ca. or 20°. | | | | | | | | | | |
| | 3PZEN | 04-49-55.9 | | | 1.6 | 6.0 | 6.2 | 6.5C | 2.5 | 9.5 | |
| | eS | 54-39.4 | | | 1.0 | | | 11.5 | | | |
| | iSN | 46.6 | | | | 6.2 | | | 30.3 | | |
| | iSE | 50.4 | | | | | | | 31 | | |
| | eLN | 55-40.4 | | | | 40 | | | | 3.0 | |
| | e | 56.9 | | | 1.4 | | | 7.1 | | | |
| | i | 56-18.9 | | | 1.1 | | | 2.8 | | | |
| | i | 05-00-12.4 | | | 1.1 | | | 1.7 | | | |

| Date | Phase | Time G.C.T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|-------|--|-------------|----|-------|-------------|------|-----|-------------------|------|------|
| | | h | m | s | Z | E | N | Z | E | N |
| April | | | | | | | | | | |
| 22 | e | 16 | 42 | 46.5 | | | | 0.1 | | |
| | i | | 46 | 25.5 | 1.0 | | | 0.8 | | |
| | i | | | 44.5 | | | | 1.0 | | |
| 22 | C & GS 16-38-17.8; 5.1 S., 153.7 E. h about 28 km. New Britain (P-H) = 9100 km. ca. or 82°. | | | | | | | | | |
| | iP | 16 | 50 | 36.7 | 0.9 | | | 1.7 | | |
| | iPcP | | | 48.0 | 1.5 | | | 1.5 | | |
| | iPP | | 54 | 33.5 | 0.9 | | | 1.3 | | |
| x 23 | C & GS 03-54-38.4; 36.0 N., 139.2 E. h about 115 km. Honshu, Japan (P-H) = 10210 km. ca. or 92° | | | | | | | | | |
| | iP | 04 | 07 | 41.8 | 1.0 | | | 1.0 | | |
| x 23 | C & GS 05-58-04.9; 42.9 N., 143.4 E. h about 25 km. Hokkaido, Japan Mag. 7-7 $\frac{1}{4}$ (Pas), 7 (Pal). (P-H) = 10,240 km. ca. or 92°. | | | | | | | | | |
| | iPZEN | 06 | 10 | 43.6 | 1.2 | 4.6 | 4.6 | 6.2 | 18.2 | 18.5 |
| | iSZEN | 06 | 21 | 04.8 | 4.5 | 6.0 | 6.3 | 4.0 | 41.5 | 104 |
| | eSSN | | 26 | 04.8 | | | 6.4 | | | 12.2 |
| | esSSN | | | 21.1 | | 5.4 | | | 9.0 | |
| | eEN | | 40 | 14.8 | | 9.4 | 7.0 | | 8.2 | 7.5 |
| | eE | | 44 | 06.8 | | 26.4 | | | 24.5 | |
| | eN | | | 15.3 | | | 15 | | | 22.5 |
| 23 | C & GS 09-51-17.6; 51.6 N., 159.6 E. h about 19 km. (P-H) = 7930 km. ca. or 71.1°. | | | | | | | | | |
| | eZ | 10 | 02 | 38.2 | 2.0 | | | 1.0 | | |
| 23 | C & GS 16-04-31.8; 51.6 N., 159.6 E. h about 31 km. Kamchatka (P-H) = 7900 km. ca. or 71.2°. | | | | | | | | | |
| | eZ | 16 | 15 | 51.2 | 1 | | | 0.7 | | |
| 23 | Atomic Blast | | | | | | | | | |
| | iPZ | 23 | 11 | 11.4 | 0.2 | | | 4 | | |
| | iZEN | | | 17.1 | | 0.1 | 0.1 | 7.5 | 4 | 5.5 |
| | iZ | | | 20.1 | 1 | | | 21 | | |
| 24 | iPZ | 04 | 33 | 59 | 2 | | | 2 | | |
| | iZ | | | 35-01 | 1.1 | | | 1.2 | | |
| 24 | iPZ | 07 | 22 | 30.7 | 1.2 | | | 0.5 | | |
| x 24 | C & GS 16-06-23.7; 2.2 S., 76.1 W. h about 175 km. Ecuador-Peru border (P-H) = 4340 km. ca. or 39°. | | | | | | | | | |
| | iPZ | 16 | 13 | 54.9 | 1.5 | | | 1.0D | | |
| | ePcP | | 14 | 27.9 | 2.1 | | | 4.7 | | |
| | ePPP | | 15 | 49.8 | 1.4 | | | 2.0 | | |
| | eSZ | | 19 | 25.9 | 1.5 | | | 2.2 | | |

| Date | Phase | Time G.C.T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|--|--|-------------|----|------|-------------|------|---|-------------------|------|---|
| | | h | m | s | Z | E | N | Z | E | N |
| ----- Station not in operation ----- Clock broken. | | | | | | | | | | |
| June | | | | | | | | | | |
| 10 | e(s)N | 23 | 08 | 08.2 | | | | | 1.2 | |
| 11 | e(s)EN | 02 | 08 | 56.9 | | | | 1.2 | 0.9 | |
| 11 | eLEN | 08 | 53 | 43.7 | | | | | | |
| 11 | eSEN | 14 | 03 | 04.4 | 2.4 | 2.8 | | 1.3 | 1.1 | |
| 12 | eSN | 03 | 46 | 04.2 | | | | 1.3 | | |
| | eSE | | | 17.2 | | | | | 0.8 | |
| + 14 | C & GS 07-51-51.0; 54.3 N., 169.1 E. h about 34 km. near islands, Aleutian Islands. Mag. 6-6 $\frac{1}{4}$ (Pas), 5 $\frac{3}{4}$ Brk) (P-H) = 7140 km. ca. or 64.1 $^{\circ}$ | | | | | | | | | |
| | e(r)N | 08 | 02 | 31.4 | | | | | 0.1 | |
| | e(P)E | | | 46.2 | 1.0 | | | 0.1 | | |
| | ePPPEN | 06 | 27 | 4.4 | 3.2 | 3.4 | | 1.7 | 1.7 | |
| | eSEN | 11 | 20 | 4.4 | 9.0 | 8.0 | | 3.0 | 2.3 | |
| | eEN | 16 | 16 | 4.4 | 3.6 | 5.0 | | 3.0 | 2.5 | |
| | eLEN | 22 | 54 | 4.4 | | 24.0 | | 4.2 | 4.5 | |
| + 15 | C & GS 06-30-37.0; 20.4 S., 70.9 W. h about 60 km. near coast of northern Chile. Mag. .5 (Pal), 6600 km. ca. or 59.5 $^{\circ}$. | | | | | | | | | |
| | ePEN | 06 | 40 | 43.8 | 5.2 | 3.0 | | 1.2 | 1.1 | |
| 15 | eLEN | 07 | 06 | 27.4 | | | | | | |
| 15 | eSEN | 06 | 48 | 57.4 | 6.0 | 5.2 | | 2.8 | 4.0 | |
| | eEN | | 50 | 28.8 | 5.4 | 4.4 | | 2.1 | 1.5 | |
| + 21 | C & GS 04-43-43.3; 5.7 N., 82.6 W. h about 23 km. south of Panama Mag (6 $\frac{1}{4}$)Pas. 6 $\frac{1}{4}$ (Berk) (P-H) = 3420 km. ca. or 30.8 $^{\circ}$. | | | | | | | | | |
| | eN | 04 | 50 | 04.5 | | 5.6 | | | 2.1 | |
| + 23 | C & GS 09-58-26.0; 19.1 N., 121.4 E. h about 40 km. near north coast of Luzon, Philippine Islands. (P-H) = 7640 km. ca. or 68.8 $^{\circ}$. | | | | | | | | | |
| No | i(P)EN | 10 | 09 | 33.6 | 4.0 | 4.5 | | 2.0 | 1.7 | |
| | eLN | | 39 | 23.6 | | 26 | | | 1.0 | |
| | eLE | | | 59.6 | 28 | | | 1.2 | | |
| 24 | eLE | 02 | 18 | 33.2 | 36 | | | | | |
| | eLN | | 19 | 15.2 | | 40 | | | | |
| 27 | C & GS 01-28-55.7; 37.7 N., 88.5 W. h about 25 km. southern Illinois Felt in two states Mag. 5 $\frac{1}{4}$ -5 $\frac{1}{2}$ (Pal) (P-H) = 410 km. ca. or 4 $^{\circ}$. | | | | | | | | | |
| | ePEN | 01 | 30 | 10.0 | | | | 0.2 | 0.1 | |
| | eSEN | | | 23.8 | 0.6 | 0.6 | | 1.2 | 0.9 | |
| | eLEN | | 31 | 25.2 | 0.8 | 1.0 | | 11.8 | 14.1 | |

| Date | Phase | Time G.C.T. | | | Period Sec. | | | Trace Amp. (mms.) | | | 8 |
|------|---|-------------|---------------|------|-------------|------|---|-------------------|-----|-----|---|
| | | h | m | s | Z | E | N | Z | E | N | |
| June | | | | | | | | | | | |
| 27 | eEN | 18 | 04 | 10.3 | 0.6 | | | 0.1 | 0.1 | | |
| | eN | | 09 | 15.3 | | 2.6 | | | 1.6 | | |
| 27 | eN | 18 | 34 | 07.3 | | 2.8 | | | 1.0 | | |
| X 25 | eEN | 06 | 48 | 07.8 | 6.0 | 6.4 | | 1.4 | 0.9 | | |
| X 25 | ePEN | 11 | 29 | 35.5 | | | | 0.7 | 0.7 | | |
| 25 | ePEN | 19 | 03 | 48.2 | 1.2 | | | 0.5 | 0.5 | | |
| | eSEN | | 08 | 07.2 | 7.0 | 6.2 | | 1.7 | 1.4 | | |
| X 28 | iPZE | 04 | 36 | 55.9 | 1.5 | 3.0 | | 3.5 | 3.0 | | |
| | eEN | | 44 | 41.0 | 9.4 | 7.0 | | 1.7 | 3.0 | | |
| | eN | | 52 | 19.0 | | 11.0 | | | 1.9 | | |
| | eE | | 55 | 35.0 | 8.4 | | | 1.0 | | | |
| X 28 | C & GS 18-50-27.5; 0.2 S., 124.3 E. h about 58 km. northern Celebes (P-H) = 11920 km. ca. or 107.3°. | | | | | | | | | | |
| | iPP | 19 | 09 | 32.7 | 1.0 | | | 1.5 | | | |
| | e | | 12 | 46.3 | 1.0 | | | 1.0 | | | |
| X 29 | C & GS 22-35-20.3; 15.3 N., 105.4 W. h about 25 km. off coast of Mexico. (P-H) = 2205 km. ca. or 32°. | | | | | | | | | | |
| | ePZEN | 22 | 40 | 22.1 | | 5.0 | | 0.5 | 0.8 | 1.5 | |
| | eSEN | | 47 | 32.8 | 5.6 | 5.4 | | 3.5 | 2.7 | | |
| July | | | | | | | | | | | |
| X 2 | eZE | 08 | 50 | 49.8 | 2.5 | 4.8 | | 2.0 | 2.8 | | |
| | eE | | 57 | 08.3 | | 5.0 | | | 2.9 | | |
| | e | 09 | 03 | | 1.6 | | | 0.9 | | | |
| 2 | e | 19 | 17 | 40.7 | 0.9 | | | 0.3 | | | |
| 3 | C & GS 21-16-59.3; 4.3 N., 31.6 W. h about 23 km. mid Atlantic Ocean. (P-H) = 7210 km. ca. or 64.9°. | | | | | | | | | | |
| | eP | 21 | 27 | 41.8 | 0.8 | | | 1.4C | | | |
| 4 | C & GS 07-07-53.7; 14.3 N., 93.2 W. h about 25 km. off coast of Guatemala. (P-H) = 2400 km. ca. or 21.6°. | | | | | | | | | | |
| | eP | 07 | 12 | 45.9 | 0.7 | | | 0.7D | | | |
| 4 | C & GS 07-57-45.3; 54.5 N., 36.7 W. h about 25 km. about 500 miles south of Greenland. (P-H) = 4720 km. ca. or 42.5°. | | | | | | | | | | |
| | eP | 08 | 05 | 43.2 | 1.3 | | | 0.7C | | | |
| 4 | eP | 08 | 51 | 35.8 | | | | 0.2 | | | |
| 4 | eP | 09 | 11 | 07.8 | 0.9 | | | 1.5 | | | |
| X 5 | 3 | 17 | 54 | 20.5 | 0.8 | | | 1.3 | | | |

| Date | Phase | Time G.C.T. | | | Period Sec. | | | Trace Amp. (mms.) | | |
|--------|---|-------------|----|---------|-------------|---|------|-------------------|---|------|
| | | h | m | s | Z | E | N | Z | E | N |
| July 5 | C & GS 20-49-23.8; 23.5 N., 107.8 W. h about 25 km. off coast of Sinaloa, Mexico. (P-H) = 1800 km. ca. or 16.2°. | | | | | | | | | |
| | eP | 20 | 53 | 16.0 | | | | 0.4 | | |
| | eNS | | 57 | 09.0 | | | 11.6 | | | 3.1 |
| | eLN | | 59 | 41.0 | | | 12.2 | | | 2.3 |
| + 6 | eP | 02 | 15 | 15.7 | 0.6 | | | 0.6 | | |
| + 6 | eP | 02 | 31 | 14.8 | | | | 0.5 | | |
| + 6 | C & GS 09-16-15.0; 38.0 N., 20.2 E. h about 30 km. Ionian Sea. Mag. 5 (Pal) (P-H) = 9320 km. ca. or 84°. | | | | | | | | | |
| | iP | 09 | 28 | 46.3 | 1.1 | | | 0.8C | | |
| | iPcP | | 30 | 40.0 | 2.1 | | | 1.3 | | |
| | iPP | | 32 | 08.7 | 2.3 | | | 1.0 | | |
| | eLN | 10 | 05 | 00.3 | | | 22.0 | | | 0.2 |
| + 6 | C & GS 15-54-20.5; 37.2 N., 19.4 E. h about 25 km. Ionian Sea. (P-H) = 9560 km. ca. or 86.0°. | | | | | | | | | |
| | eP | 16 | 06 | 59.6 | 1.4 | | | 0.6 | | |
| 6 | eP | 17 | 04 | 10.0 | 1.3 | | | 0.7 | | |
| | eL | | 09 | 00.0 | | | 1.0 | | | 0.1 |
| | eLN _{Max.} | | | 26.8 | | | 2.0 | | | 2.4 |
| | i | | | 45.8 | 1.6 | | | 2.2 | | |
| 6 | iP | 18 | 14 | 18.1 | 1.0 | | | 1.1 | | |
| | i | | | 15-07.1 | | | | 0.6 | | |
| 6 | C & GS 18-40-59.4; 60.3 N., 152.1 W. h about 67 km. Kenai Peninsula, Alaska. (P-H) = 4720 km. ca. or 42.5°. | | | | | | | | | |
| | eP | 18 | 48 | 55.4 | 1.0 | | | 0.6 | | |
| 6 | i | 23 | 09 | 39.2 | 0.4 | | | 1.3 | | |
| + 6 | C & GS 23-05-32.2; 36.6 N., 70.4 E. h about 203 km. Hindu Kush; Felt: Afghanistan, Pakistan, Tadzhik S.S.R. Minor damage. (P-H) = 11,240 km. ca. or 101.1°. | | | | | | | | | |
| | iP | 23 | 19 | 23.7 | 1.7 | | | 1.5 | | |
| | eZN | | 23 | 38.4 | 1.4 | | 1.8 | 5.1 | | 1.1 |
| | ePP | | 24 | 37.0 | 3.6 | | | 10.1 | | |
| | eN | | 25 | 01.4 | | | 3.2 | | | 5.5 |
| | eN | | 29 | 39.6 | | | 2.0 | | | 19.5 |
| | eSN | | 31 | 18.6 | | | 11.0 | | | 17.0 |
| + 7 | C & GS 06-12-48.9; 51.3 N., 178.6 E. h about 60 km. Rat Islands, Aleutian Islands. (P-H) = 6600 km. ca. or 59.4°. | | | | | | | | | |
| | iPZ N | 06 | 22 | 57.7 | 2.2 | | 3.0 | 4.5C | | 2.2 |
| | eSN | | 32 | 46.1 | | | 4.0 | | | 6.4 |
| | e(ScS)N | | 33 | 03.5 | | | 3.8 | | | 8.6 |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp. (mms.) | | |
|------|-------|--|---|---|-------------|------|------|-------------------|------|-----|
| | | h | m | s | Z | E | N | Z | E | N |
| July | | | | | | | | | | |
| 7 | | C & GS 07-14-34.6; 51.3 N., 178.8 E. h about 60 km. Rat Islands Aleutian Islands. (P-H) = 6600 km. ca. or 59.4°. | | | | | | | | |
| | eP | 07-24-43.5 | | | 0.5 | | | 0.3 | | |
| 7 | eP | 10-29-51.2 | | | 0.5 | | | 0.2 | | |
| 7 | eP | 12-09-56.6 | | | 0.9 | | | 1.0 | | |
| 10 | | C & GS 04-21-12.0; 39.1 S., 75.4 W. h about 25 km. off coast of Central Chile. (P-H) = 8560 km. ca. or 77°. | | | | | | | | |
| | eP | 04-33-02.1 | | | 1.0 | | | 0.7 | | |
| 12 | | C & GS 22-50-58.8; 2.9 S., 104.1 W. h about 25 km. south Pacific Ocean (P-H) = 4500 km. ca. or 40.5°. | | | | | | | | |
| | eP | 22-58-40.5 | | | 1.3 | | | 0.7 | | |
| | eLe | 23-08-05.5 | | | | 18.2 | | 3.5 | | |
| | eLN | 12.5 | | | | | 15.8 | | 1.9 | |
| 14 | | C & GS 02-24-39.9; 25-36.4; 0.6 0.8; 2.0 1.7 3.5 | | | | | | | | |
| | iP | 02-24-39.9 | | | | | | 2.0 | | |
| | eEN | 25-36.4 | | | 0.6 | 0.8 | | 1.7 | 3.5 | |
| 14 | | C & GS 19-43-52.6; 40.3 N., 124.4 W. h about 25 km. northern California. (P-H) = 3120 km. ca. or 28°. | | | | | | | | |
| | eP | 19-49-04.9 | | | 0.9 | | | 0.1 | | |
| | iPPE | 10.6 | | | | | | 1.1 | | |
| | eSZEN | 53-28.4 | | | 3.0 | 3.8 | | 1.4 | 6.8 | 3.2 |
| | eLEN | 56-42.0 | | | | 7.2 | 4.8 | 3.5 | 23.3 | |
| × 15 | eEN | 07-10-46.3 | | | 7.2 | | | 2.3 | 1.7 | |
| | eEN | 11-30.1 | | | 5.8 | 5.8 | | 2.8 | 2.3 | |
| 17 | ePEN | 13-02-47.6 | | | 2.2 | 2.2 | | 1.5 | 1.8 | |
| | iEN | 08-26.6 | | | 5.0 | 5.0 | | 2.1 | 2.1 | |
| | eEN | 09-18.3 | | | 5.0 | 5.6 | | 2.7 | 3.1 | |
| | eEN | 12-44.4 | | | 8.8 | 9.4 | | 2.4 | 2.4 | |
| | eLEN | 18-13.6 | | | 6.0 | 8.0 | | 24.2 | 18.0 | |
| 18 | θEN | 05-44-20.2 | | | 3.2 | 5.4 | | 1.5 | 2.7 | |
| | eEN | 54-32.8 | | | 11.6 | 6.2 | | 1.7 | 2.6 | |
| × 18 | ePEN | 09-45-40.6 | | | | 1.2 | | | 0.4 | |
| | eSEN | 50-02.6 | | | | | | 1.2 | 1.1 | |
| 18 | eSEN | 17-43-11.6 | | | 8.4 | 5.0 | | 4.0 | 4.2 | |
| 19 | iEN | 10-22-22.1 | | | | | | 1.0 | 0.7 | |
| | | 29-07.6 | | | 6.4 | 7.2 | | 2.0 | 3.6 | |
| 20 | | C & GS 04-36-41.0; 51.5 N., 173.6 W. h about 25 km. Fox Island, Aleutian Islands. (P-H) = 6220 km. ca. or 56°. | | | | | | | | |
| | eP | 04-46-22.2 | | | | | | 0.1 | | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp. (mms.) | | | 11 |
|------|-------|--|---|---|-------------|-----|-----|-------------------|-----|------|----|
| | | h | m | s | Z | E | N | Z | E | N | |
| July | | | | | | | | | | | |
| 20 | | C & GS 09-02-08.3; 39.5 N., 118.3 W. h about 25 km. Nevada. Felt: Mag. $5\frac{1}{4}$ (Pas) (P-H) = 2120 km. ca. or 19.1° . | | | | | | | | | |
| | eP | 09-06-34.1 | | | 1.1 | | | 0.2 | | | |
| | eSEN | 12-08.7 | | | | 3.4 | 3.4 | | 1.1 | 2.9 | |
| 20 | eP | 23-53-08.8 | | | 1.5 | | | 1.8C | | | |
| 21 | eP | 07-02-01.9 | | | 0.9 | | | 0.6C | | | |
| 21 | eP | 13-25-33.9 | | | | | | 0.4C | | | |
| 21 | eP | 22-51-02.7 | | | 0.6 | | | 0.9 | | | |
| 22 | | C & GS 00-16-07.2; 3.2 S., 137.5 E. h about 104 km. western New Guinea (P-H) = 8380 km. ca. or 75.7° . | | | | | | | | | |
| | ePP | 00-30-44.9 | | | | | | 0.5 | | | |
| * 22 | | C & GS 13-36-49.7; 8.4 S., 158.8 E. h about 107 km. Solomon Islands (P-H) = 10,240 km. ca. or 92.1° . | | | | | | | | | |
| | ePP | 13-53-38.0 | | | 1.0 | | | 0.4 | | | |
| 23 | iP | 01-18-25.7 | | | 0.9 | | | 7.5C | | | |
| 23 | eP | 01-53-01.7 | | | 0.6 | | | 0.9 | | | |
| 23 | | Atomic Device | | | | | | | | | |
| | ePZEN | 06-06-14.5 | | | | | | | | | |
| | eEN | 07-14.5 | | | | 0.6 | | | 1.0 | 1.9 | |
| 23 | eP | 06-20-22.6 | | | 1.0 | | | 0.8 | | | |
| 23 | | C & GS 22-11-54.6; 19.0 N., 65.1 W. h about 25 km. Virgin Islands region. Felt: St. Thomas; eastern Puerto Rico. (P-H) = 3380 km. ca. or 30.5° . | | | | | | | | | |
| | iP | 22-18-09.1 | | | 0.7 | | | 2.8C | | | |
| 23 | iP | 04-04-51.0 | | | 0.7 | | | 3.1C | | | |
| 23 | eP | 11-13-07.8 | | | 1.0 | | | 0.7 | | | |
| * 24 | | C & GS 21-08-22.6; 15.5 N., 92.5 W. h about 129 km. Mexico-Guatemala border region. Mag. 5.6 (Berk.) 5.5 (Pal) (P-H) = 2200 km. ca. or 20° . | | | | | | | | | |
| | iPZEN | 21-12-52.2 | | | 1.0 | 3.8 | 5.6 | 1.9C | 6.0 | 11.0 | |
| | eSEN | 16-27.7 | | | | 7.2 | 8.2 | | 27 | 16.4 | |
| 25 | eP | 00-21-17.7 | | | 1.3 | | | 1.3 | | | |
| * 25 | | C & GS 04-37-50.7; 18.9 N., 81.1 W. h about 64 km. west of Jamaica. Mag. $.6$ (Pas) $5\frac{1}{2}$ (Berk), 6 (Pal) (P-H) = 2200 km. ca. or 20° . | | | | | | | | | |
| | iPZEN | 04-42-21.1 | | | 1.2 | 7.2 | 6.6 | 3.0 | 12 | 12.4 | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp (mms.) | | |
|----------------|--------|---|----|------|-------------|------|-----|------------------|------|----|
| | | h | m | s | Z | E | N | Z | E | N |
| July | | | | | | | | | | |
| 25 (continued) | | | | | | | | | | |
| | eSEN | 04 | 46 | 21.0 | 8.4 | 8.0 | | 40.5 | 41.5 | |
| | eLEN | ✓ | 51 | 02.7 | 10.4 | 11.2 | | 65 | 112 | |
| 25 | C & GS | 06-05-15.9; 14.3 S., 75.5 W. h about 100 km. near coast of southern Peru. (P-H) = 5620 km. ca. or 50.7°. | | | | | | | | |
| | eP | 06 | 14 | 24.7 | 1.4 | | | 0.9 | | |
| 25 | eP | 11 | 16 | 59.1 | 0.9 | | | 0.6 | | |
| 26 | C & GS | 02-33-15.3; 4.9 W., 81.3 W. h about 25 km. off coast of northern Peru. (P-H) = 4700 km. ca. or 42.5°. | | | | | | | | |
| | iP | 02 | 41 | 12.4 | 1.0 | | | 1.5 | | |
| ✓ 26 | C & GS | 04-23-11.9; 47.1 N., 153.9 E. h about 35 km. Kurile Islands. (P-H) = 8320 km. ca. or 75°. | | | | | | | | |
| | iP | 04 | 35 | 05.5 | 1.1 | | | 1.1C | | |
| ✓ 26 | iPZEN | 08 | 20 | 58.9 | 1.0 | 4.6 | 4.4 | 3.4 | 29 | 42 |
| | eSEN | ✓ | 25 | 45.6 | | | | 132 | 106 | |
| 27 | eP | 00 | 47 | 06.2 | 0.8 | | | 0.4 | | |
| 27 | eP | 03 | 27 | 21.0 | 0.5 | | | 0.1 | | |
| 27 | eP | 04 | 24 | 00.0 | 1.1 | | | 0.7D | | |
| 27 | eP | 08 | 08 | 08.4 | | | | 0.2 | | |
| ✗ 27 | C & GS | 12-38-25.1; 51.6 N., 174.1 W. h about 60 km. Andreanof Islands Aleutian Islands. (P-H) = 6180 km. ca. or 55.7°. | | | | | | | | |
| | eP | 12 | 48 | 15.3 | | | | 0.6 | | |
| 27 | eP | 18 | 06 | 11.1 | | | | 0.2 | | |
| 28 | eP | 16 | 30 | 45.4 | | | | 0.2 | | |
| ✗ 28 | C & GS | 19-43-00.3; 36.9 N., 141.9 E. h about 39 km. off east coast of Honshu, Japan. (P-H) = 10,000 km. ca. or 90°. | | | | | | | | |
| | eP | 19 | 55 | 59.7 | 1.2 | | | 3.2D | | |
| ✗ 28 | C & GS | 20-46-26.0; 44.6 N., 148.6 E. h about 32 km. Kurile Islands. (P-H) = 9040 km. ca. or 81.4°. | | | | | | | | |
| | eP | 20 | 58 | 43.7 | 0.7 | | | 0.6 | | |
| 29 | eP | 13 | 11 | 06.9 | 1.0 | | | 0.6 | | |
| 30 | eP | 10 | 24 | 25.8 | 0.9 | | | 1.8C | | |
| 30 | eP | 11 | 03 | 53.8 | 0.9 | | | 0.5 | | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp (mms.) | | |
|--------|---|----------|----|------|-------------|------|------|------------------|------|------|
| | | h | m | s | Z | E | N | Z | E | N |
| July | | | | | | | | | | |
| 30 | eP | 11 | 13 | 37.0 | 0.8 | | | 0.4 | | |
| + 30 | C & GS 17-16-44.4; 3.3 S., 143.9 E. h about 25 km. near north coast of New Guinea; felt Mag. 6 3/4-7 (Pas), 7 (Berk), 7 (Pal) (P-H) = 13,780 km. ca. or 124°. | | | | | | | | | |
| | ePcP | 17 | 35 | 31.1 | 0.6 | | | 1.3 | | |
| | eSZE | 17 | 45 | 53.8 | 1.2 | 20.2 | | 0.6 | 10.5 | |
| | eLEN | 18 | 11 | 43.1 | | 34 | 27 | 6.0 | 6.0 | |
| + 30 | C & GS 20-18-49.3; 5.0 N., 76.3 W. h about 45 km. western Colombia 47 killed, 300 injured in Caldas, Province; property damage over 400,000 square mile area. Felt at Balboa Heights, C.Z. Mag. 6 3/4 (Pas), 6 3/4 (Berk), 7 (Pal) (P-H) = 4600 km. ca. or 41.5°. | | | | | | | | | |
| | ePZEN | 20 | 25 | 36.4 | | 3.8 | 3.8 | 2.5 | 13.1 | 15.5 |
| | eEN | 27 | 03 | 1 | | | 5.0 | 27 | 29 | |
| | eSEN | 31 | 03 | 5 | | | 5.6 | 42.4 | 23.3 | |
| x 31 | eP | 05 | 31 | 46.5 | 0.5 | | | | | |
| 31 | C & GS 11-25-05.5; 19.7 W., 67.7 W. h about 270 km. southern Bolivia. (P-H) = 6300 km. ca. or 56.7°. | | | | | | | | | |
| | eP | 11 | 34 | 53.0 | 0.8 | | | 2.0 | | |
| August | | | | | | | | | | |
| + 1 | C & GS 04-28-26.7; 5.5 N., 125.3 E. H about 33 km. near coast of Mindanao, Phillipine Islands. (P-H) = 10,580 km. ca. or 95.4°. | | | | | | | | | |
| | iPP | 04 | 55 | 41.8 | 0.7 | | | 0.8C | | |
| | ePE | 05 | 56 | 53.8 | | 4.8 | | | 1.8 | |
| | e | 05 | 06 | 08.3 | 1.3 | | | 0.6 | | |
| | eLEN | 05 | 45 | 8 | | 18.2 | 10 | 4.7 | 2.6 | |
| | eLEN | 13 | 32 | 4 | | 18 | 6 | 5.2 | 2.5 | |
| | eLEN | 32 | 01 | 0 | | 16 | 25.2 | 2.5 | 3.0 | |
| 1 | eP | 19 | 05 | 14.0 | | | | | | |
| 1 | eP | 20 | 03 | 37.5 | | | | | | |
| 2 | eP | 01 | 48 | 00.1 | 0.5 | | | 0.5 | | |
| 2 | eP | 02 | 02 | 05.6 | 1.2 | | | 1.1D | | |
| 2 | C & GS 04-41-46.7; 19.3 N., 81.0 W. h about 47 km. south of Cuba (P-H) = 2240 km. ca. or 20.2°. | | | | | | | | | |
| | iP | 04 | 46 | 24.5 | 1.5 | | | 2.2C | | |
| 2 | iP | 21 | 30 | 43.6 | 0.3 | | | 0.5 | | |
| 2 | iP | 23 | 08 | 55.8 | 0.5 | | | 0.7 | | |
| 3 | iP | 00 | 04 | 25.9 | 0.7 | | | 1.0C | | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp. (mms.) | | | 14 |
|--------|--|----------|----|------|-------------|---|---|-------------------|---|---|----|
| | | h | m | s | Z | E | N | Z | E | N | |
| August | | | | | | | | | | | |
| 3 | | 04 | 11 | 54.9 | 0.7 | | | 0.5 | | | |
| 3 | eP | 05 | 07 | 01.4 | | | | | | | |
| 3 | i | 07 | 46 | 39.1 | 1.1 | | | 1.0 | | | |
| + 3 | iPZE | 09 | 06 | 39.1 | 1.2 | | | 11.5C | | | |
| | e | 35 | 19 | 2 | 3.0 | | | 3.0 | | | |
| 3 | iP | 22 | 05 | 34.4 | 0.7 | | | 4.0C | | | |
| 4 | C & GS 02-49-44.7; 14.1 N., 93.0 W. h about 30 km near coast of Guatemala. Mag. 4½ (Berk) (P-H) = 2440 km. ca. or 22°. | | | | | | | | | | |
| | iP | 02 | 54 | 37.3 | 1.2 | | | 5.0C | | | |
| 4 | iP | 05 | 10 | 34.8 | 1.0 | | | 0.6 | | | |
| 4 | iP | 10 | 51 | 04.7 | 1.0 | | | 0.5C | | | |
| | i | | 52 | 12.4 | 1.5 | | | 1.5 | | | |
| | i | | 28 | 5 | 1.5 | | | 1.0 | | | |
| + 6 | iP | 01 | 43 | 35.8 | 1.2 | | | 14.0D | | | |
| 7 | ePS | 00 | 52 | 06.5 | 0.5 | | | 1.0 | | | |
| 7 | iP | 18 | 14 | 07.0 | 0.5 | | | 1.0C | | | |
| 8 | C & GS 10-54-56.3; 52.1 N., 170.5 S., h about 40 km. Fox Islands, Aleutian Islands. (P-H) = 6160 km. ca. or 55.5°. | | | | | | | | | | |
| | e | 11 | 04 | 18.3 | 1.0 | | | 0.5 | | | |
| 8 | iP | 21 | 43 | 15.7 | 1.3 | | | 2.0C | | | |
| 9 | C & GS 00-21-10.7; 22.4 S., 70.0 W. h about 160 km. northern Chile. (P-H) = 6600 km. ca. or 60°. | | | | | | | | | | |
| | iP | 00 | 31 | 18.0 | 1.1 | | | 1.9 | | | |
| + 9 | iP | 04 | 28 | 31.9 | 0.7 | | | 9.0C | | | |
| | | | 31 | 01.4 | 1.0 | | | 3.2 | | | |
| 9 | iP | 06 | 30 | 22.1 | 0.6 | | | 5.0 | | | |
| 9 | C & GS 17-24-48.5; 44.5 S., 73.4 W. h about 33 km. (P-H) = 9100 km. ca. or 82°. | | | | | | | | | | |
| | iP | 17 | 37 | 08.0 | 1.2 | | | 1.3C | | | |
| + 10 | iP | 21 | 12 | 42.7 | 1.2 | | | 2.5C | | | |
| + 11 | eP | 02 | 02 | 21.5 | 1.6 | | | 1.7 | | | |
| + 11 | eP | 08 | 30 | 04.8 | | | | | | | |

| Date | Phase | Time GCT h m s | Period Sec. | | | Trace Amp (mms.) | | |
|--|--|-------------------|-------------|------|-----|------------------|-----|-----|
| | | | Z | E | N | Z | E | N |
| August 12 | iP | 05-18-50.9 | 0.8 | | | 1.5 | | |
| x 13 | C & GS 06-35-56.0; 2.1 N., 83.5 W. h about 33 km. about 300 miles northwest of Ecuador. Mag $6\frac{1}{2}$ -6 $\frac{3}{4}$ (Pas.) 5.4 (Berk) $5\frac{1}{2}$ -5 $\frac{3}{4}$ (Pal) (P-H) = 3720 km. ca. or 33.5° . | | | | | | | |
| | iZN | 06-42-47.3 | 1.1 | 4.0 | | 1.5 | 3.2 | |
| | eZN | 44-10.5 | 2.1 | 3.4 | | 2.4 | 7.5 | |
| | eSN | 48-20.9 | | 12.0 | | | 8.0 | |
| | eLN | ✓ 50-47.5 | | 10.0 | | | 9.5 | |
| 13 | C & GS 10-09-24.9; 14.6 N., 93.0 W. h about 118 km. off coast of Chiapas, Mexico. (P-H) = 2260 km. ca. or 32.4° . | | | | | | | |
| | eP | 10-14-04.5 | 1.0 | | | 1.5 | | |
| 13 | eP | 10-27-39.5 | 0.9 | | | 0.5 | | |
| ----- Station not in operating order ----- | | | | | | | | |
| Sept. | | | | | | | | |
| 4 | iPZ | 02-33-09.7 | 0.5 | | | 0.5 | | |
| | eZ | 11.4 | 1.0 | | | 0.7 | | |
| | eZ | 13.2 | | | | | | |
| 4 | eZ | 03-53-46.2 | 1.0 | | | 0.5 | | |
| x 4 | C & GS 15-17-42.4; 15.0 N., 91.7 W., h about 217 km. Mexico-Guatemala border. (P-H) = 2280 km. ca. or 20.5° . | | | | | | | |
| | iPZ | 15-22-09.6 | 1.5 | | | 4.2 | | |
| | iPP | 20.6 | 1.0 | | | 0.5 | | |
| | isPRZEN | 23-29.9 | 1.5 | 0.1 | 2.4 | 2.3 | 1.4 | 4.0 |
| | iSZEN | ✓ 26-01.9 | 2.0 | 8.0 | 4.0 | 1.0 | 7.0 | 3.0 |
| 4 | eZ | 16-15-07.9 | 0.3 | | | 0.5 | | |
| | iZ | 14.9 | 1.0 | | | 1.0 | | |
| x 4 | C & GS 17-17-27.6; 41.0 N., 124.0 W. h about 48 km. near coast of northern Cal. Felt: Eureka, Cal. Mag. $4\frac{3}{4}$ -5 (Pas) $4\frac{3}{4}$ (Berk). (P-H) = 2580 km. ca. or 23.4° . | | | | | | | |
| | iPZ | 17-22-35.9 | 1.3 | | | 5 | | |
| | iPZ | 43.3 | 1.2 | | | 3.5 | | |
| | ePP | 23-57.5 | 2 | | | 2 | | |
| | eLEN | ✓ 29-19.0 | | | | | | |
| 4 | iZ | 17-40-04.7 | 0.7 | | | 0.7 | | |
| | iZ | 10.5 | 1.5 | | | 4 | | |
| 4 | C & GS 19-28-37.0; 15.5 W., 167.7 E. h about 133 km. New Heberdeis Islands. Felt: Santo (P-H) = 11,700 km. ca. or 105.4° . | | | | | | | |
| | eSKS | 20-53-08.1 | 0.7 | | | 1.0 | | |
| | eSKKS | 15.2 | 1.0 | | | 1.7 | | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp. (mms.) | | | 16 |
|------------|---|----------|----|---------|-------------|---|-----|-------------------|-----|----|----|
| | | h | m | s | Z | E | N | Z | E | N | |
| Sept. 4 | eZ | 22 | 12 | 31.4 | 0.5 | | | 0.7 | | | |
| | eZ | | | 39.1 | 1.0 | | | 1.0 | | | |
| 5 | C & GS 08-35-56.3; 52.7 N., 159.1 E. h about 101 km. near east coast of Kamchatka (P-H) = 7720 km ca. or 69.5°. | | | | | | | | | | |
| | eZ | 08 | 47 | 04.9 | 1.3 | | | 5 | | | |
| 5 | ePZ | 14 | 25 | 44.5 | 0.5 | | | 0.4 | | | |
| | iZ | | 26 | 01.5 | 1 | | | 2 | | | |
| 5 | C & GS 16-04-29.0; 40.7 N., 112.0 W. h about 14 km. Utah. Felt. Mag. 5 (Pas) (P-H) = 1600 km. ca. or 14.5°. | | | | | | | | | | |
| | iPZ | 16 | 07 | 59.4 | 1.5 | | | 1.7 | | | |
| | iZEN | | 08 | 58.6 | 1.5 | 1 | | 4.0 | 1.5 | 12 | |
| | iSZEN | | 12 | 13.3 | 1.5 | 1 | 1 | 5.0 | 2.5 | 10 | |
| | eZ | | | 41.2 | 1.5 | | | 1.3 | | | |
| | eEN | | 13 | 20.2 | | 6 | 5.0 | | 7.0 | 12 | |
| 5 | eZ | 16 | 51 | 14.2 | 0.5 | | | 1.0 | | | |
| | eZ | | | 19.7 | 1 | | | 1.5 | | | |
| 5 | eZ | 20 | 00 | 57.5 | | | | 0.7 | | | |
| | eZ | | 01 | 06.0 | 1.5 | | | 2.0 | | | |
| 5 | eZ | 20 | 40 | 04.2 | 0.7 | | | 0.7 | | | |
| | eZ | | | 13.5 | 0.5 | | | 0.5 | | | |
| | eZ | | | 28.9 | 1.3 | | | 1 | | | |
| 5 | iZ | 22 | 28 | 24.4 | 0.5 | | | 12.5 | | | |
| | eZ | | | 28.7 | 0.5 | | | 1 | | | |
| 6 | iZ | 00 | 55 | 09.4 | | | | 0.5 | | | |
| | eZ | | | 16.4 | 1 | | | 1.5 | | | |
| | eZ | | | 40.9 | 1 | | | 1.0 | | | |
| | eZ | | | 53.7 | 1 | | | 1.7 | | | |
| | eZ | | 56 | 02.9 | 1.4 | | | 1.7 | | | |
| 6 | eZ | 16 | 57 | 05.6 | 0.5 | | | 0.4 | | | |
| | eZ | | | 11.7 | 1.5 | | | 2.0 | | | |
| | eZ | | | 20.8 | 1.0 | | | 1.0 | | | |
| 6 | eZ | 18 | 01 | 04.3 | 0.3 | | | 1.0 | | | |
| | eZ | | | 27.3 | 1.0 | | | 0.7 | | | |
| 6 | iZ | 18 | 38 | 17.4 | 0.2 | | | 3.0 | | | |
| | eZ | | 18 | 38-33.4 | 0.4 | | | 1.0 | | | |
| | eZ | | | 41.0 | 1.5 | | | 2.5 | | | |
| 6 | iZ | 21 | 05 | 52.8 | 0.7 | | | 0.7 | | | |
| | iZ | | | 59.0 | 1.0 | | | 3.0 | | | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp. (mms.) ¹⁷ | | |
|------------|--|----------|----|---------|-------------|-----|-----|---------------------------------|-----|-----|
| | | h | m | s | Z | E | N | Z | E | N |
| Sept. 6 | eZ | 21 | 55 | 20.9 | 0.3 | | | 1.7 | | |
| | eZ | | | 35.2 | 0.5 | | | 1.5 | | |
| | iZ | | | 45.8 | 1.1 | | | 3.5 | | |
| | eZ | 58 | 53 | 7 | 0.5 | | | 1.7 | | |
| 6 | eZ | 23 | 40 | 09 | 0.5 | | | 0.8 | | |
| | | 41 | 08 | 5 | 0.5 | | | 0.8 | | |
| | | | | 17.4 | 1.2 | | | 2.3 | | |
| 7 | eZ | 19 | 03 | 37.8 | 0.3 | | | 0.5 | | |
| | iZ | | | 55.0 | 1.1 | | | 2.0 | | |
| 7 | eZEN | 21 | 04 | 27.6 | 0.5 | | | 0.7 | | |
| | eZ | | | 33.5 | 1.0 | | | 3.0 | | |
| 7 | eZ | 21 | 13 | 46.6 | 0.3 | | | 0.2 | | |
| | iZ | | | 14-40.0 | 1.0 | | | 2.5 | | |
| | eZ | | | 16-06.1 | 1.0 | | | 1.0 | | |
| 7 | iZ | 21 | 38 | 21.5 | 0.1 | | | 3.5 | | |
| | eZ | 21 | 38 | 36.8 | 0.3 | | | 1.7 | | |
| | eZ | | | 44.7 | 1 | | | 3.0 | | |
| 7 | eZ | 22 | 54 | 50.3 | 0.2 | | | 1.5 | | |
| | eZ | | | 42.8 | 0.5 | | | 3 | | |
| 7 | C & GS 23-37-27.5; 26.3 S., 178.0 W. h about 50 km. Kemadec Islands region. (P-H) = 8300 km. ca. or 74.8°. | | | | | | | | | |
| | ePPZ | 23 | 52 | 01.0 | 0.7 | | | 1.5 | | |
| | eZEN | | | 21.6 | 0.1 | 0.5 | 0.5 | 2.5 | 0.5 | 1.0 |
| | eZ | | | 39.5 | 1.1 | | | 7.5 | | |
| 8 | eZ | 17 | 55 | 17.7 | 0.4 | | | 0.5 | | |
| | iZ | 17 | 55 | 45.2 | 1.0 | | | 7.5 | | |
| 8 | eZ | 20 | 07 | 53.3 | 0.5 | | | 0.5 | | |
| | iZ | | | 58.9 | 1.0 | | | 1.5 | | |
| 8 | eZ | 23 | 45 | 06.8 | 0.5 | | | 0.7 | | |
| | | | | 35.5 | 0.5 | | | 3.0 | | |
| + 9 | C & GS 03-21-55.5; 15.6 S., 73.4 W. h about 98 km. Peru. (P-H) = 6040 km. ca. or 54.2°. | | | | | | | | | |
| | iPZ | 03 | 31 | 17.2 | 0.7 | | | 6.7D | | |
| | iPP | | | 40.5 | | | | | | |
| | isP | | | 51.4 | | | | | | |
| 9 | C & GS 14-45-44.5; 14.0 N., 89.5 W. h about 89 km. El Salvador (P-H) = 2380 km. ca. or 27.5°. | | | | | | | | | |
| | ePZ | 14 | 50 | 23.8 | 1.5 | | | 1.5 | | |
| | epPZ | | | 48.1 | | | | | | |
| | esPZ | | | 53.5 | | | | | | |
| | ePPZ | | | 51-16.5 | | | | | | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp. (mms.) 18 | | |
|------------|--|----------|----|------|-------------|-----|---|----------------------|------|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Sept. 9 | eZ | 19 | 20 | 34.6 | 1.0 | | | 1.0 | | |
| 15 | eZ | 09 | 17 | 02.7 | 1 | | | 0.5 | | |
| 15 | C & GS 11-18-23.0; 20.4 S., 68.1 W. h about 33 km. Southern Bolivia (P-H) = 6760 km. ca. or 60.9°. | | | | | | | | | |
| | eZ | 11 | 28 | 37.1 | | | | | | |
| 6 | eZ | 23 | 40 | 09 | 0.5 | | | 0.8 | | |
| | | | 41 | 08.5 | 0.5 | | | 0.8 | | |
| | | | | 17.4 | 1.2 | | | 2.3 | | |
| 7 | eZ | 19 | 03 | 37.8 | 0.3 | | | 0.5 | | |
| | iZ | | | 55.0 | 1.1 | | | 2.0 | | |
| X 15 | C & GS 22-50-46.3; 48.5 N., 156.8 E. h about 33 km. Kurile Islands Mag. 6½ (Pas) 6 (Pal) (P-H) = 8180 km. ca. or 73.5°. | | | | | | | | | |
| | eZE | 23 | 02 | 19 | 2.5 | 2.5 | | 12.5 | 3.0 | |
| X 16 | C & GS 03-05-33.0; 19.3 N., 103.1 W. h about 100 km. Jalisco Mexico Mag 4 3/4-5 (Pal) (P-H) = 2020 km. ca. or 20°. | | | | | | | | | |
| | ePZE | 03 | 09 | 39.6 | 2.9 | 1.0 | | 12.5 | 2.7 | |
| | eSE | 13 | 02 | 0 | 2.5 | | | 5.0 | | |
| | eZE | 15 | 30 | | 3.0 | 3.2 | | 3.5 | 16 | |
| X 16 | C & GS 05-36-15.7; 35.8 N., 118.1 W. h about 10 km Kern County, California. Rock slides in road. felt at Bakersfield, Fresno, and Los Angeles. Mag. 4 3/4-5 (Pas) 5½-5 3/4 (Berk) (P-H) = 2120 km. ca. or 19.1°. | | | | | | | | | |
| | ePEZ | 05 | 40 | 40.4 | 1.0 | | | 4 | | |
| | eL ₉ EZ | 46 | 28 | 0 | 3.0 | 3.0 | | 3 | 5.5 | |
| 17 | C & GS 01-10-18.7; 64.3 N., 149.3 W. h about 63 km. Alaska (P-H) = 4700 km. ca. or 42.4°. | | | | | | | | | |
| | ePZ | 01 | 18 | 11.0 | 0.7 | | | 0.4 | | |
| X 17 | eZ | 18 | 08 | 19.4 | 2.5 | | | 0.9 | | |
| | eZ | 10 | 35 | 1 | 1.2 | | | 0.7 | | |
| 17 | eZ | 20 | 40 | 03.5 | | | | 0.5 | | |
| | eZ | | | 19.8 | 1.2 | | | 1.7 | | |
| | eZ | 41 | 19 | 6 | 1.2 | | | 0.7 | | |
| X 18 | C & GS 00-20-05.2; 7.5 N., 82.3 W. h about 33 km. south of Panama, felt Chiriqui Province, Mag. 7 (Pas), 7 (Berk) 6½-6 3/4 (Pal) (P-H) = 3260 km. ca. or 47.1°. | | | | | | | | | |
| | iPZE | 00 | 35 | 15.3 | | 4.0 | | 7.5 | 8.0 | |
| | eL ₉ E | 47 | 02 | 3 | 5 | | | | 39.5 | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp (mms.) | | | 19 |
|---------------|--|----------|----|------|-------------|---|---|------------------|---|---|----|
| | | h | m | s | Z | E | N | Z | E | N | |
| Sept. + 18 | C & GS 05-13-37.5; 7.3 N., 82.4 W. h about 41 km. south of Panama (P-H) = 3260 km. ca. or 47.1°. | | | | | | | | | | |
| | ePZ | 05 | 19 | 48.3 | 1.5 | | | 2.0 | | | |
| + 18 | eZ | 06 | 14 | 26.5 | 1 | | | 1 | | | |
| + 19 | C & GS 01-22-35.5; 52.3 N., 173.4 W. h about 33 km. Andreanof Islands, Aleutian Islands (P-H) = 7120 km. ca. or 64.0°. | | | | | | | | | | |
| | iPZE | 01 | 32 | 12.8 | 1 | | | 3.5C | | | |
| 19 | eZ | 14 | 26 | 28.0 | 1 | | | 0.2 | | | |
| 19 | eZ | 15 | 13 | 50.0 | 1.0 | | | 0.5 | | | |
| 19 | eZ | 17 | 12 | 01.2 | 0.5 | | | 0.2 | | | |
| 20 | eZ | 02 | 47 | 09.6 | 0.5 | | | 0.7 | | | |
| 20 | C & GS 06-03-23.7; 4.5 S., 80.5 W. h about 17 km. near coast of northern Peru. (P-H) 4780 km. ca. or 43.0°. | | | | | | | | | | |
| | eZ | 06 | 11 | 26.4 | 1.0 | | | 0.8C | | | |
| 20 | C & GS 09-25-26.7; 15.5 S., 76.1 W. h about 33 km. near coast of southern Peru. (P-H) = 5900 km. ca. or 53°. | | | | | | | | | | |
| | eZ | 09 | 34 | 48.1 | 0.9 | | | 0.5D | | | |
| 20 | eZ | 22 | 04 | 33.8 | 1 | | | 0.7 | | | |
| 21 | eZ | 05 | 47 | 45.6 | 1.5 | | | 1.0 | | | |
| + 22 | eZ | 07 | 10 | 15.0 | 1.7 | | | 1.0 | | | |
| | eZ | 19 | 29 | 29.2 | 1.5 | | | 0.5 | | | |
| 22 | eZ | 14 | 35 | 45.6 | 1.4 | | | 0.7 | | | |
| 22 | eZ | 23 | 15 | 45.9 | 1.0 | | | 1.0 | | | |
| | eZ | 22 | 01 | 01.1 | 1.0 | | | 0.7 | | | |
| + 23 | C & GS 12-02-...; 14.7 N., 45.1 W. h about 32 km. north Atlantic Ocean (P-H) = 5340 km. ca. or 48°. | | | | | | | | | | |
| | eZ | 12 | 11 | 17.9 | 1.0 | | | 0.5 | | | |
| + 23 | C & GS 15-50-46.4; 60.1 N., 151.2 W. h about 86 km. Kenai Peninsula Alaska. (P-H) = 4640 km. ca. or 41.5°. | | | | | | | | | | |
| | iPZ | 15 | 58 | 38.8 | 1.0 | | | 2.5D | | | |
| 23 | iP | 22 | 31 | 01.9 | 1.0 | | | 1.0 | | | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp (mms.) | | | 20 |
|-------------|--|----------|----|------|-------------|---|---|------------------|---|---|----|
| | | h | m | s | Z | E | N | Z | E | N | |
| Sept. 24 | eZ | 04 | 54 | 12.5 | 0.7 | | | 0.7 | | | |
| x 24 | iPZ | 14 | 47 | 16.9 | 2.5 | | | 7.0D | | | |
| | eSZ | | 49 | 47.8 | 1.5 | | | 5.0 | | | |
| | eLZ | | 50 | 54.0 | 2.5 | | | 12.0 | | | |
| | eZ | | 58 | 07.2 | 1.0 | | | 1.0 | | | |
| x 25 | C & GS 00-21-14.6; 55.6 S., 124.3 W. h about 67 km. south Pacific Ocean. (P-H) = 10,250 km. ca. or 92°. | | | | | | | | | | |
| | eZ | 00 | 34 | 31.0 | 1.0 | | | 0.7 | | | |
| 25 | iP | 01 | 14 | 31.9 | 1.0 | | | 3.0 | | | |
| | eZ | | 16 | 43.0 | 1.5 | | | 0.7 | | | |
| 25 | iP | 07 | 23 | 37.3 | 1.7 | | | 2.0 | | | |
| 25 | eZ | 23 | 02 | 42.8 | 0.8 | | | 0.5 | | | |
| 26 | eZ | 02 | 14 | 31.3 | 1.5 | | | 0.1 | | | |
| 27 | C & GS 06-48-45.8; 31.2 S., 67.9 W. h about 71 km. San Juan Province Argentina. (P-H) = 7940 km. ca. or 71.5°. | | | | | | | | | | |
| | iPZ | 06 | 59 | 58.9 | 0.8 | | | 3.0C | | | |
| 27 | C & GS 07-50-28.3; 17.9 S., 64.9 W. h about 120 km. Central Bolivia. (P-H) = 6660 km. ca. or 60°. | | | | | | | | | | |
| | iPZ | 08 | 00 | 27.8 | 0.6 | | | 2.0D | | | |
| x 27 | C & GS 09-18-24.9; 42.3 N., 142.3 E. h about 47 km. Kokkaido, Japan. (P-H) = 9680 km. ca. or 87.3°. | | | | | | | | | | |
| | eZ | 09 | 31 | 03.3 | 0.8 | | | 0.7C | | | |
| x 27 | iPZ | 13 | 15 | 36.8 | 1.0 | | | 2.0 | | | |
| | iZ | | 18 | 03.9 | 1.5 | | | 2.5 | | | |
| 28 | eZ | 00 | 53 | 31.2 | 2.0 | | | 0.7 | | | |
| 28 | C & GS 05-34-21.1; 55.0 N., 160.7 W. h about 89 km. Alaska Peninsula. (P-H) = 5180 km. ca. or 46.5°. | | | | | | | | | | |
| | eZ | 05 | 42 | 51.2 | 1.0 | | | 0.5 | | | |
| 28 | iPZ | 06 | 17 | 40.2 | 1.5 | | | 2.5 | | | |
| + 28 | C & GS 18-56-08.7; 5.2 N., 76.2 W. h about 127 km. western Colombia felt. (P-H) = 3860 km. ca. or 34.9°. | | | | | | | | | | |
| | iPZ | 19 | 03 | 03.6 | 1.0 | | | 5.5D | | | |

| Date | Phase | Time GCT | | | Period Sec. | | | Trace Amp (mms.) | | |
|------|-------|----------|---|---|-------------|---|---|------------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |

Sept.

X 29

C & GS 15-17-47.7; 27.0 S., 63.6 W. h about 575 km. Santiago
 Del Estero Province, Argentina. Mag. $6\frac{1}{2}$ (Pas), $6\frac{1}{4}$ (Pal).
 (P-H) = 6660 km. ca. or 60° .

| | | | | | | | |
|-------|------------|-----|-----|-----|------|------|------|
| iPZEN | 15-27-57.2 | 1.5 | 1.5 | 2.0 | 21.0 | 6.5 | 8.0D |
| iSZEN | 36-22.9 | 2.0 | 1.7 | 1.7 | 2.5 | 16.5 | 30.0 |

The University of Arkansas Seismograph Station is located on the University Farm, 2.5 miles northwest of the main campus at Fayetteville. Coordinates of the station are $36^{\circ} 05.46''$ north latitude and $94^{\circ} 11.47'$ west longitude. Altitude above mean sea level is 1,325 feet. The seismometer pier rests on the Boone limestone of lower Mississippian age. Approximately 2,500 feet of limestone, shale and sandstone overlie the pre-Cambrian crystalline rocks in the vicinity of the station.



University of Arkansas
Seismograph Station
Department of Geology
Fayetteville, Arkansas

Copied

1962

UNIVERSITY OF ARKANSAS SEISMOLOGICAL BULLETIN

Volume XI

Number 3



The University Of Arkansas Seismograph Station

Operated by the University's Department of Geology

in conjunction with the

United States Coast and Geodetic Survey

FAYETTEVILLE SEISMOGRAPH STATION

Volume 11, Number 3, December 1962
Date for October, November, December

Instruments

Vertical component - Benioff moving coil type, short period electromagnetic galvanometric, Mass = 100 lbs.

Seismometer-Benioff moving coil period = 1.1 second
Galvanometer-Geotechnical Corp. period = 0.2 second
Damping ratio - about 15:1 (near critical)
Recording drum speed = 60 mm. per minute

Horizontal components - Wilson - Wilson-Lamison hinges type: E-W
N-S electromagnetic - galvanometric

Seismometer period - 6.0 seconds (N-S)
6.0 seconds (E-W)
Galvanometer-General Electric period - 4.1 seconds (N-S)
3.8 seconds (E-W)

Recording Drum speed - 30 mm. per minute

Clock - IBM, electrically wound, invar pendulum type.
accuracy limits generally within one tenth second.

Radio - WWV Time Signal impressed manually by telegraph key on 5th, 10th, and 15th second. Time signals received by a Hallicrafter receiver, S-40B.

Vertical-Ground motion trace up (compression)
reading from left to right
N-S - ground motion trace up - North
E-W - ground motion trace up - East

(Additional information regarding the station is given on the back cover.)

Information in Remarks column is usually from U. S. Coast and Geodetic Survey epicenter cards. "C" following the trace amplitude indicates a compressional motion of the wave; "D" indicates dilation.

Bulletin compiled by Doy L. Zachry,
Observer

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | | 1 |
|------|---|----------|----|---------|--------------|------|------|-----------------|------|-----|---|
| | | h | m | s | Z | E | N | Z | E | N | |
| Oct. | | | | | | | | | | | |
| 1 | eZ | 16 | 08 | 03.6 | 1.5 | | | 1.0 | | | |
| | iZE | | | -19.8 | 1.0 | 10.0 | | 5.0 | 22.5 | | |
| | iZE | | | 10-23.4 | 1.0 | 30.0 | | 3.0 | 32.5 | | |
| x 1 | C & GS 20-42-36.5; 19.6 S., 174.5 W. h about 134 km. Fiji Island region. (P-H) = 10,200 km. ca. or 92°. | | | | | | | | | | |
| | iPZ | 20 | 55 | 38.7 | 1.5 | | | 6.0D | | | |
| | epP | | | 56-16.0 | 1.0 | | | 2.0 | | | |
| | eZ | | | 59-09.5 | 1.5 | | | 1.0 | | | |
| 3 | eZ | 01 | 10 | 30.1 | 1.5 | | | 1.7 | | | |
| | iZ | | | 13-13.0 | 1.5 | | | 2.0 | | | |
| x 4 | C & GS 19-46-10.1; 38.3 N., 22.7 E. h about 38 km. Greece. Felt: Corinth (P-H) = 9640 km. ca. or 86.8°. | | | | | | | | | | |
| | iPZ | 19 | 58 | 47.2 | 1.2 | | | .7C | | | |
| 4 | eZ | 23 | 19 | 16.4 | 1.3 | | | .5 | | | |
| 5 | C & GS 04-14-39.1; 40.2 N., 29.5 W. h about 33 km. Azores region. (P-H) = 5600 km. ca. or 50.5°. | | | | | | | | | | |
| | eZ | 04 | 23 | 31.7 | 1.5 | | | 1.0 | | | |
| 5 | 1PZ | 09 | 57 | 44 | 1.0 | | | 0.7 | | | |
| 5 | C & GS 08-39-32.2; 40.7 N., 29.8 W. h about 33 km. Azores region. (P-H) = 5480 km. ca. or 49.5°. | | | | | | | | | | |
| | eZ | 08 | 48 | 22.5 | 1.0 | | | .07D | | | |
| 5 | iPZEN | 17 | 04 | 09.1 | 1.2 | 2.0 | | 1.3 | 1.7 | | |
| | eSZEN | | | 09-16.2 | 1.5 | 8.0 | 3.0 | 1.8 | 1.0 | 5.0 | |
| x 6 | C & GS 03-17-07.2; 40.8 N., 29.5 W. h about 33 km. Azores region. (P-H) = 5480 km. ca. or 50.3°. | | | | | | | | | | |
| | iPZ | 03 | 25 | 58.0 | 1.5 | | | 2.5 | | | |
| x 6 | C & GS 03-54-58.3; 40.5 N., 29.5 W. h about 33 km. Azores region (P-H) = 5440 km. ca. or 49°. | | | | | | | | | | |
| | iPZ | 04 | 03 | 50.6 | 0.5 | | | 1.7 | | | |
| 6 | eEN | 05 | 20 | 44.5 | | 18.0 | 14.0 | | 5.0 | 5.0 | |
| 6 | C & GS 07-17-03.3; 17.4 S., 167.8 E. h about 33 km. New Hebricks Islands. Felt: Port Vila. (P-H) = 9340 km. ca. or 84°. | | | | | | | | | | |
| | ePZ | 07 | 29 | 34.0 | 1.0 | | | 0.5 | | | |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | |
|------|--|----------|----|------|--------------|---|---|-----------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Oct. | | | | | | | | | | |
| X 6 | C & GS 08-31-50.1; 17.3 S., 167.8 E. h about 33 km. New Hebricles Islands. (P-H) = 10,240 km. ca. or 92.1°. | | | | | | | | | |
| | ePZ | 08 | 45 | 03.7 | 1.0 | | | 1.0 | | |
| 8 | ePZ | 16 | 43 | 54.8 | 0.4 | | | 0.5 | | |
| | eZ | | 45 | 49.8 | 0.5 | | | 1.7 | | |
| 8 | ePZ | 20 | 47 | 48.0 | 0.5 | | | 0.5 | | |
| | eZ | | 49 | 30.8 | 1.4 | | | 1.1 | | |
| 8 | C & GS 22-24-06.5; 24.1 N., 121.8 E. h about 29 km. Near east coast of Formosa; (P-H) = 10,700 km. ca. or 97.5°. | | | | | | | | | |
| | eLEN | 23 | 04 | 45.9 | 28.0 | | | 14.0 | | |
| | | | | | 18.0 | | | 5.0 | | |
| 10 | C & GS 13-33-10.3; 8.9 S., 110.3 E. h about 33 km. off south coast of Java; (P-H) = 16,000 km. ca. or 144°. | | | | | | | | | |
| | iP'Z | 13 | 52 | 44.2 | 2.0 | | | 10.0D | | |
| 10 | C & GS 20-53-34.5; 34.9 S., 70.1 W. h about 137 km. Mendoza Province, Argentina. (P-H) = 8060 km. ca. or 116°. | | | | | | | | | |
| | iPZ | 21 | 04 | 56.6 | 2.0 | | | 3.0D | | |
| | epPZ | | 26 | 56.6 | 1.0 | | | 1.7 | | |
| 10 | C & GS 21-52-36.8; 15.1 S., 173.3 W. h about 33 km. Samoa Islands region. Felt: Apia. (P-H) = 10,000 km. ca. or 90°. | | | | | | | | | |
| 12 | C & GS 00-10-04.8; 4.1 S., 80.3 W. h about 195 km. Near coast of Ecuador (P-H) = 4500 km. ca. or 67.5°. | | | | | | | | | |
| | eZ | 00 | 17 | 39.0 | 1.5 | | | 1.6 | | |
| 12 | C & GS 07-56-08.4; 20.4 S., 68.9 W. h about 139 km. northern Chile. (P-H) = 6680 km. ca. or 60.3°. | | | | | | | | | |
| | iPZ | 08 | 06 | 08.0 | 1.0 | | | 4.0D | | |
| 13 | Local quake. | | | | | | | | | |
| | iSZ | 20 | 36 | 44.9 | 1.2 | | | 2.5 | | |
| | eSZ | | 37 | 07.9 | 0.7 | | | 2.0 | | |
| | eLZ | | | 19.5 | 1.5 | | | 1.0 | | |
| 15 | iPZ | 03 | 21 | 13.1 | 1.0 | | | 2.0D | | |
| 16 | C & GS 28.3 S., 62.5 E. h about 33 km. south of the Mascarene Islands. (P-H) = 17,200 km. ca. or 154.8°. | | | | | | | | | |
| | iP'Z | 07 | 36 | 04.3 | 1.0 | | | 0.7C | | |

| Date | Phase | Time GCT | | | Period (Sec.) | | | Trace (Amp) mms | | |
|------|---|----------|----|------|---------------|------|------|-----------------|-----|-----|
| | | h | m | s | Z | E | N | Z | E | N |
| Oct. | | | | | | | | | | |
| x 16 | C & GS 51.6 N., 175.8 W. h about 27 km. near islands, Aleutian Islands. Mag. 5 1/4 (Pal) (P-H) = 6300 km. ca. or 56.7°. | | | | | | | | | |
| | iPZ | 18 | 12 | 21.5 | 1.0 | | | 3.0 | | |
| x 18 | C & GS 04-06-00.4; 8.9 S., 117.0 E. h about 33 km. Sumbawa. (P-H) = 14,100 km. ca. or 127°. | | | | | | | | | |
| | eP'Z | 04 | 25 | 21.4 | 1.0 | | | 1.0 | | |
| x 18 | C & GS 08-40-55.5; 46.5 N., 149.6 E. h about 140 km. Kurile Islands, (P-H) = 8700 km. ca. or 78.5°. | | | | | | | | | |
| | iPZ | 08 | 52 | 49.5 | 1.3 | | | 2.6C | | |
| | ipPZ | 53 | 27 | 27.4 | 1.0 | | | 2.0 | | |
| x 18 | C & GS 11-22-40.2; 46.5 N., 149.5 E. h about 128 km. Kurile Islands. (P-H) = 8700 km. ca. or 78.5°. | | | | | | | | | |
| | iPZ | 11 | 34 | 35.4 | 1.2 | | | 6.5C | | |
| | epPZ | 35 | 11 | 11.6 | 1.4 | | | 2.5 | | |
| 18 | C & GS 19-49-59.2; 16.2 N., 93.5 W. h about 179 km. Chiapas, Mexico. (P-H) = 2200 km. ca. or 20°. | | | | | | | | | |
| | iPZ | 19 | 54 | 19.2 | 1.2 | | | 2.2 | | |
| | iSZ | 57 | 49 | 49.2 | 1.5 | | | 5.0 | | |
| x 19 | C & GS 04-13-03.6; 31.0 S., 69.4 W. h about 120 km. San Juan Province. Argentina. Felt Santiago, Chile. (P-H) = 11,700 km. ca. or 105.5°. | | | | | | | | | |
| | iPZ | 04 | 24 | 06.7 | 1.5 | | | 6.0D | | |
| | ipPZ | 36 | 2 | 36.2 | 2.0 | | | 3.5 | | |
| 19 | C & GS 21-21-48.8; 19.8 N., 108.3 W. off coast of Jalisco, Mexico. h about 53 km. (P-H) = 2300 km. ca. or 20.7°. | | | | | | | | | |
| | iPZ | 21 | 26 | 22.8 | 1.3 | | | 2.0 | | |
| | iSZEN | 32 | 52 | 52.3 | | 10.0 | 10.0 | | 8.0 | 6.0 |
| 20 | eZ | 00 | 01 | 16.3 | 1.0 | | | 2.0D | | |
| x 20 | C & GS 05-30-42.2; 6.4 S., 130.1 E. h about 167 km. Banda Sea. (P-H) = 14,550 km. ca. or 131°. | | | | | | | | | |
| | eP'Z | 05 | 49 | 33.9 | 1.0 | | | 1.7C | | |
| | ePP | 52 | 41 | 41.5 | 1.0 | | | 2.5 | | |
| x 21 | C & GS 02-05-22.7; 61.1 N., 149.7 W. h about 80 km. Vicinity Anchorage, Alaska. Felt. (P-H) = 4680 km. ca. or 42°. | | | | | | | | | |
| | iPZEN | 02 | 13 | 10.6 | 1.6 | 1.0 | 0.8 | 1.75 | | |
| | iZEN | 14 | 09 | 09.4 | 1.6 | 5.0 | 2.0 | 4.0 | 2.5 | 1.5 |
| | eSEN | 28 | 59 | 59.9 | | 7.0 | 6.0 | | 4.0 | 2.5 |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Smp) mms | | |
|------|--|------------|---|---|--------------|-----|-----|-----------------|-----|-----|
| | | h | m | s | Z | E | N | Z | E | N |
| Oct. | | | | | | | | | | |
| X 22 | C & GS 14-23-32.9; 49.8 N., 155.8 E. h about 19 km. northern Kurile Islands. (P-H) = 8240 km ca or 74.1°. | | | | | | | | | |
| | iPZ | 15-35-10.8 | | | 1.4 | | | 4.00 | | |
| 22 | C & GS 22-18-50.3; 37.9 N., 141.7 E. h about 38 km. Honaku, Japan. (P-H) = 11,400 km. ca. or 102.5°. | | | | | | | | | |
| | eZ | 22-32-49.6 | | | 1.0 | | | 0.50 | | |
| 23 | C & GS 09-02-02.2; 9.5 N., 70.0 W. h about 33 km. north central Venezuela. (P-H) = 3780 km. ca. or 34°. | | | | | | | | | |
| | iPZ | 09-08-46.9 | | | 1.0 | | | 1.00 | | |
| 23 | ePZ | 12-33-07.8 | | | 1.0 | | | 1.5 | | |
| 25 | iPZ | 08-53-11.6 | | | 2.0 | | | 1.5 | | |
| | eSZ | 55-02.8 | | | 1.5 | | | 2.0 | | |
| 25 | iPZEN | 14-58-28.5 | | | 1.0 | 1.0 | 1.0 | 4.5 | 1.0 | 1.0 |
| | iSZEN | 15-03-04.3 | | | 1.3 | 3.0 | 3.0 | 3.0 | 2.5 | 1.4 |
| X 25 | eZ | 20-25-18.5 | | | 1.2 | | | 1.0 | | |
| X 26 | C & GS 11-26-12.4; 33.7 N., 27.9 E. h about 33 km. Eastern Mediterranean Sea. (P-H) = 10,100 km. ca. or 91.1°. | | | | | | | | | |
| | eZ | 11-39-18.6 | | | 0.7 | | | 0.50 | | |
| X 27 | C & GS 08-10-24.5; 14.0 N., 90.4 W. h about 107 km. Guatamala-El Salvador border. Felt: western El Salvador. (P-H) = 2,400 km. ca. or 21.5°. | | | | | | | | | |
| | iPZ | 08-15-13.4 | | | 1.0 | | | 3.00 | | |
| | iSZEN | 27.1 | | | .9 | .9 | .9 | 9.0 | | |
| | iZ | 19-35.0 | | | 1.5 | | | 2.2 | | |
| X 27 | C & GS 13-52-51.2; 11.5 N., 86.4 W. h about 80 km. near west coast of Nicaragua. (P-H) = 2,800 km. ca. or 25.1°. | | | | | | | | | |
| | iPZ | 13-58-12.1 | | | 1.5 | | | 7.00 | | |
| 28 | High micro seismic storm. | | | | | | | | | |
| | eZ | 13-12-14.3 | | | | | | | | |
| X 28 | C & GS 22-53-01.3; 16.0 N., 93.6 W. h about 110 km. Chiapas, Mexico. (P-H) = 2220 km. ca. or 20°. | | | | | | | | | |
| | iPZ | 22-57-27.2 | | | 1.0 | | | 10.00 | | |
| | iSZ | 23-01-07.5 | | | 1.0 | | | 7.0 | | |
| 29 | C & GS 00-19-39.7; 7.1 N., 82.6 W. h about 21 km. off couth coast of Parama. (P-H) = 3380 km. ca. or 30.5°. | | | | | | | | | |
| | iPZ | 00-25-54.7 | | | 0.7 | | | 4.0 | | |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | |
|------|--------|--|---|---|--------------|-----|-----|-----------------|-----|------|
| | | h | m | s | Z | E | N | Z | E | N |
| Oct. | | | | | | | | | | |
| 29 | C & GS | 02-42-56.1; 34.3 N., 117.0 W. h about 33 km. San Bernadino County, California. Slight damage near Big Bear. Mag. 4 3/4-5 (Pas.) (P-H) = 2080 km. ca. or 18.7°. | | | | | | | | |
| | ePZ | 02-47-13.7 | | | 2.0 | | | 1.5 | | |
| | eZ | 52-36.2 | | | 1.5 | | | 2.0 | | |
| 29 | C & GS | 09-30-48.2; 33.9 S., 70.7 W. h about 33 km. Central Chile, Felt Santiago. (P-H) = 8080 km. ca. or 72.7°. | | | | | | | | |
| | iPZ | 09-42-14.9 | | | 1.5 | | | 1.5 | | |
| 29 | C & GS | 10-53-29.9; 13.0 N., 88.4 W. h about 43 km. near coast of El Salvador. Felt: Southern El Salvador. (P-H) = 2,610 km. ca. or 23.5°. | | | | | | | | |
| | iPZ | 10-58-39.9 | | | 1.0 | | | 1.5 | | |
| 29 | C & GS | 21-01-28.5; 23.3 S., 111.5 W. h about 33 km. Easter Island region. (P-H) = 6700 km. ca. or 60.5°. | | | | | | | | |
| | ePZ | 21-11-42.4 | | | 2.0 | | | 1.5 | | |
| + 30 | eZ | 02-05-33.9 | | | 1.5 | | | .75 | | |
| + 30 | C & GS | 08-31-51.8; 12.5 N., 88.0 W. h about 80 km. off west coast of Nicaragua. (P-H) = 7670 km. ca. or 24.0°. | | | | | | | | |
| | iPZEN | 08-37-01.6 | | | 1.5 | 5.0 | 4.0 | 12.5 | 6.0 | 9.0 |
| | eSEN | 42-04.2 | | | | 6.0 | 6.0 | | 7.5 | 10.0 |
| 30 | iPZ | 10-05-33.6 | | | 0.7 | | | 3.0 | | |
| 30 | eZ | 12-24-12.4 | | | 1.0 | | | 0.5 | | |
| | eZ | 28-36.8 | | | 2.0 | | | 0.7 | | |
| | eZ | 43-31.8 | | | 1.5 | | | 1.7 | | |
| | eZ | 13-01-24.1 | | | 1.2 | | | 0.5 | | |
| 30 | iPZ | 20-51-29.8 | | | 1.0 | | | 2.1 | | |
| | eSZ | 52-08.5 | | | 1.5 | | | 1.5 | | |
| + 31 | C & GS | 11-32-20.6; 5.6 N., 82.6 W., h about 33 km. south of Panama. Mag. 6 1/2 (Pas), 5 1/2 (Pal) (P-H) = 3480 km. ca. or 41.3°. | | | | | | | | |
| | iPZEN | 11-38-54.1 | | | 1.0 | 1.0 | 1.0 | 7.5 | | 2.0 |
| 31 | 3PZ | 19-34-54.7 | | | 1.0 | | | .5 | | |
| Nov. | | | | | | | | | | |
| 1 | C & GS | 15-33-22.6; 1.9 N., 133.0 E. h about 56 km. off coast of western New Guinea. (P-H) = 21,110 km. ca. or 109°. | | | | | | | | |
| | ePPZ | 15-52-13.6 | | | 1.0 | | | .70 | | |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | |
|------|--|------------|---|---|--------------|-----|-----|-----------------|---|--------------|
| | | h | m | s | Z | E | N | Z | E | N |
| Nov. | | | | | | | | | | |
| 1 | C & GS 23-20-59.6; 43.9 N., 145.2 E. h about 131 km. Kurile Islands. (P-H) = 9080 km. ca. or 81.5°. | | | | | | | | | |
| | iPZ | 23-33-15.8 | | | 1.0 | | | | | 2.0C |
| + 2 | C & GS 14-46-39.2; 10.0 S., 117.8 E. h about 33 km. south of Sumbama. (P-H) = 15,700 km. ca. or 142.0°. | | | | | | | | | |
| | iP'Z | 15-06-02.7 | | | 1.0 | | | | | 1.5D |
| | iPPZ | 15-13-22.6 | | | 0.7 | | | | | 1.0C |
| 3 | C & GS 01-35-10.6; 6.7 S., 104.7 W. h about 33 km. 1500 km. southwest of Galapagos Islands. (P-H) = 4800 km. ca. or 43.1°. | | | | | | | | | |
| | iPZ | 01-43-14.6 | | | 1.5 | | | | | 1.5 |
| 3 | C & GS 19-04-20.8; 4.5 S., 103.4 E. h about 33 km. southern Sumatra. (P-H) = 10,000 km. ca. or 90°. | | | | | | | | | |
| | iPPPZ | 19-23-54.1 | | | 1.0 | | | | | 2.2D |
| + 4 | C & GS 22-53-34.2; 43.2 S., 75.6 W. h about 33 km. off coast of southern Chile. Mag 5 3/4-6 (Pas), 5 1/2 (Pal). (P-H) = 9000 km. ca. or 81°. | | | | | | | | | |
| | iPZ | 23-05-47.3 | | | 1.5 | | | | | 6.0 |
| | eSN | 23-15-28.5 | | | 10.0 | | | | | 8.0 |
| 5 | ePZ | 23-19-50.3 | | | 0.6 | | | | | 1.5 |
| | eSZ | 23-20.6 | | | 0.7 | | | | | 1.5 |
| + 6 | C & GS 03-36-56.9; 45.8 N., 122.5 W. h about 44 km. Washington-Oregon border. Felt minor damage Portland and Sillamook, Oregon. Mag. 4 3/4 (Berk) 5 1/4-5 1/2 (Pal) (P-H) = 2540 km. ca. or 22°. | | | | | | | | | |
| | iPZEN | 03-41-51.8 | | | 1.4 | 1.4 | 1.4 | | | 4.5 1.5 |
| | eSZEN | 49-08.1 | | | 3.0 | 4.5 | 4.0 | | | 2.0 10.0 8.0 |
| + 7 | C & GS 40.5 N., 29.4 W. h about 33 km. Azores. (P-H) = 5460 km. ca. or 49.3°. | | | | | | | | | |
| | iPZ | 13-06-38.6 | | | 1.0 | | | | | 2.5D |
| + 7 | C & GS 16-03-04.1; 7.8 S., 119.8 E. h about 156 km. Flores Sea. (P-H) = 15,000 km. ca. or 135°. | | | | | | | | | |
| | iP'Z | 16-22-02.4 | | | .7 | | | | | 1.5 |
| | eSSSZ | 25-29.3 | | | 1.0 | | | | | 1.2 |
| 8 | iPZ | 00-11-30.2 | | | 1.0 | | | | | 1.0 |
| + 8 | C & GS 00-33-13.8; 4.4 S., 105.5 W. h about 33 km. 1700 km southwest of Galapagos Islands. (P-H) = 4540 km. ca. or 40.8°. | | | | | | | | | |
| | ePZ | 00-40-59.3 | | | 1.1 | | | | | 1.2 |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | | 7 |
|------|--|------------|---|---|--------------|-----|------|-----------------|---|------|-----|
| | | h | m | s | Z | E | N | Z | E | N | |
| Nov. | | | | | | | | | | | |
| + 9 | C & GS 09-21-30.8; 35.8 N., 140.3 E. h about 33 km. near east coast of Honshu, Japan. Felt. (P-H) = 10,120 km. ca. or 91.0°. | | | | | | | | | | |
| | iPZ | 09-34-38.5 | | | 0.7 | | | | | 1.0C | |
| + 10 | C & GS 01-33-19.0; 43.8 N., 147.2 E. h about 60 km. Kurile Islands. Mag. 5 1/2 (Pal) (P-H) = 9,250 km. ca. or 83.2°. | | | | | | | | | | |
| | iPZ | 01-45-38.0 | | | 1.5 | | | | | 11.0 | |
| | eSZEN | 55-22.3 | | | | 5.0 | 5.0 | | | 6.0 | 8.0 |
| + 11 | C & GS 11-31-44.5; 55.8 N., 113.1 E. h about 33 km. Lake Baikal region, VSSR. Mag. 6 1/4 (Pas). (P-H) = 9,560 km. ca. or 86.0°. | | | | | | | | | | |
| | iPZ | 11-44-23.7 | | | 1.5 | | | | | 1.0 | |
| | ePcPZ | 31.9 | | | 2.0 | | | | | 2.5 | |
| + 11 | C & GS 16-09-57.6; 12.9 S., 166.5 E. h about 77 km. Santa Cruz Islands. Felt: Port Vila. Mag. 6-6 1/4 (Pas). (P-H) = 12,000 km. ca. or 108°. | | | | | | | | | | |
| | iPPSZ | 16-39-58.9 | | | 1.5 | | | | | 2.5 | |
| 11 | eEN | 17-02-00 | | | 2.5 | | | | | 2.0 | |
| 11 | C & GS 21-45-20.5; 48.9 N., 128.8 W. h about 33 km. Vancouver Island region. (P-H) = 3100 km. ca. or 28.0°. | | | | | | | | | | |
| | eZ | 21-51-13.8 | | | 1.0 | | | | | 0.5 | |
| + 11 | C & GS 22-14-18.7; 43.2 S., 76.0 W. h about 33 km. off coast of southern Chile. Mag. 6 1/2-6 3/4 (Pas). (P-H) = 8680 km. ca. or 78.1°. | | | | | | | | | | |
| | iPZN | 22-26-17.6 | | | 1.0 | | 1.0D | | | 11.0 | 4.0 |
| | iSN | 36-39.7 | | | | | 6.0 | | | | 5.0 |
| 12 | C & GS 19-32-38.0; 51.5 N., 178.4 W. h about 57 km. Andreanof Islands, Aleutian Islands. (P-H) = 6440 km. ca. or 93.2°. | | | | | | | | | | |
| | iPZ | 19-42-35.2 | | | 0.6 | | | | | 3.5C | |
| + 14 | C & GS 21-59-16.1; 0.3 S., 123.0 E., h about 72 km. northern Celebes. (P-H) = 15,000 km. ca. or 135°. | | | | | | | | | | |
| | eP'Z | 22-18-25.5 | | | 1.0 | | | | | 0.5 | |
| | ePPZ | 20-21.0 | | | 2.5 | | | | | 2.0 | |
| + 15 | C & GS 23-25-15.7; 8.7 S., 79.8 W. h about 45 km. near coast of northern Peru. Mag. 6 (Pas). (P-H) = 5100 km. ca. or 73.9°. | | | | | | | | | | |
| | iPZ | 23-33-40.4 | | | 2.5 | | | | | 7.0C | |
| 16 | iPZ | 09-29-34.2 | | | 2.5 | | | | | 5.0 | |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp)mms | | |
|---------|--|----------|------|---|--------------|---------|---|----------------|-----|-----|
| | | h | m | s | Z | E | N | Z | E | N |
| Nov. 16 | C & GS 21-10-01.8; 13.5 N., 93.2 E. h about 33 km. Andaman Islands. Mag. 6-6 1/4 (Pal) (P-H) = 14,800 km. ca. or 133.5°. | | | | | | | | | |
| | iP'Z | 21-29 | 12.4 | | 1.0 | | | 3.0 | | |
| | ePP | 32-33 | 3.0 | | 1.0 | | | 3.0 | | |
| Nov. 17 | C & GS 11-07-15.4; 16.3 N., 98.2 W., h about 12 km. Oaxaca, Mexico. (P-H) = 2,220 km. ca. or 20°. | | | | | | | | | |
| | iPZEN | 11-11 | 49.3 | | 0.7 | 2.2 | | 9.0C | 5.0 | |
| | eSEN | 18-41 | 7 | | | 5.0 7.0 | | 6.0 | 6.0 | |
| Nov. 18 | C & GS 06-43-08.3; 0.2 S., 125.1 E. h about 56 km. Malucca Sea. (P-H) = 13,100 km. ca. or 117.0°. | | | | | | | | | |
| | eP'Z | 07-02 | 12.5 | | 0.5 | | | 0.5 | | |
| Nov. 19 | C & GS 14-30-29.1; 6.7 N., 73.0 W. h about 135 km. Colombia. (P-H) = 3800 km. ca. or 34.1°. | | | | | | | | | |
| | iPZ | 14-37 | 10.7 | | 0.5 | | | 5.0C | | |
| | epPZ | | 15.7 | | 0.7 | | | 3.0 | | |
| Nov. 20 | C & GS 06-54-04.1; 55.6 N., 158.8 E. h about 33 km. Kamchatka. (P-H) = 7680 km. ca. or 69.5°. | | | | | | | | | |
| | iPZ | 07-05 | 10.8 | | 1.0 | | | 5.0D | | |
| Nov. 20 | C & GS 07-32-42.9; 56.2 N., 159.3 E. h about 33 km. Kamchatka. (P-H) = 7600 km. ca. or 68.5°. | | | | | | | | | |
| | iPZ | 07-43 | 45.8 | | 1.2 | | | 2.5D | | |
| Nov. 23 | C & GS 00-30-04.5; 15.1 S., 75.3 W. h about 33 km. near coast of southern Peru. (P-H) = 5940 km. ca. or 53.5°. | | | | | | | | | |
| | iPZ | 00-39 | 28.5 | | 2.0 | | | 3.0C | | |
| Nov. 23 | C & GS 00-44-51.2; 15.0 W., 75.7 W. h about 40 km. near coast of Peru. (P-H) = 7200 km. ca. or 64.9°. | | | | | | | | | |
| | iPZ | 00-54 | 30.6 | | 1.5 | | | 1.7 | | |
| Nov. 24 | C & GS 15-52-20.1; 49.5 N., 155.8 E. h about 85 km. Kurile Islands region. (P-H) = 8260 km. ca. or 74.2°. | | | | | | | | | |
| | iPZ | 16-03 | 50.9 | | 1.0 | | | 1.7 | | |
| Nov. 24 | C & GS 16-29-13.6; 16.3 N., 94.2 W. h about 100 km. near coast of Chiapas, Mexico. (P-H) = 2200 km. ca. or 19.9°. | | | | | | | | | |
| | ePZ | 16-29 | 13.6 | | 1.5 | | | 1.5 | | |
| Nov. 25 | C & GS 17-34-43.4; 16.3 N., 94.2 W. h about 100 km. near coast of Chiapas, Mexico. (P-H) = 2200 km. ca. or 19.9°. | | | | | | | | | |
| | iPZEN | 17-39 | 05.3 | | 1.0 | | | 2.0C | | |
| | eSZEN | 42-36 | 8 | | 1.5 | 2.0 2.0 | | 4.0 | 3.2 | 1.0 |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | |
|------|--|----------|---------------|------|--------------|-----|-----|-----------------|-----|------|
| | | h | m | s | Z | E | N | Z | E | N |
| Nov. | | | | | | | | | | |
| + 26 | ePZ | 13 | 41 | 09.3 | 0.7 | | | 0.5 | | |
| + 26 | C & GS 15-58-46.2; 23.8 S., 175.8 W. h about 19 km. Tonga, Islands. (P-H) = 10,750 km. ca. or 96.5°. | | | | | | | | | |
| | iPZ | 16 | 12 | 20.6 | 1.5 | | | 4.0D | | |
| + 27 | eZ | 07 | 11 | 10.5 | 1.0 | | | 1.0 | | |
| + 28 | iPZ | 15 | 48 | 29.3 | 0.9 | | | 1.0 | | |
| 28 | iPZ | 20 | 08 | 05.2 | 0.7 | | | 1.7 | | |
| 29 | eZ | 13 | 31 | 23.8 | | | | | | |
| 29 | eZ | 16 | 02 | 36.7 | | | | | | |
| 30 | eZ | 16 | 06 | 19.5 | 0.9 | | | 1.0 | | |
| Dec. | | | | | | | | | | |
| 2 | ePZ | 14 | 48 | 31.5 | 1.5 | | | 1.0 | | |
| 4 | C & GS 03-29-40.8; 10.1 N., 103.6 W. h about 33 km. off coast of Guerrero, Mexico. (P-H) = 2940 km. ca. or 26.4°. | | | | | | | | | |
| | eZ | 03 | 35 | 20.8 | 1.5 | | | 1.1D | | |
| 4 | C & GS 06-15-35.6; 36.9 N., 141.0 E. h about 77 km. off east coast of Honshu, Japan. (P-H) = 10,445 km. ca. or 94°. | | | | | | | | | |
| | ePSZ | 06 | 43 | 33.2 | 1.2 | | | 0.5 | | |
| + 4 | C & GS 07-23-04.2; 21.8 S., 65.8 W. h about 300 km. southern Bolivia. (P-H) = 6480 km. ca. or 93.9°. | | | | | | | | | |
| | iPZEN | 07 | 33 | 04.1 | 0.7 | | | 8.0D | | |
| 4 | iPZ | 08 | 03 | 16.7 | 0.6 | | | 2.0 | | |
| 4 | C & GS 17-49-59.4; 39.8 N., 104.7 W. h about 33 km. Colorado. Felt: Denver. (P-H) = 940 km. ca. or 08.5°. | | | | | | | | | |
| | iPZEN | 17 | 52 | 10.8 | 0.4 | | | 2.0 | | |
| | iSZEN | | 54 | 46.3 | 1.0 | 1.0 | 1.0 | 7.0 | 2.5 | 3.5 |
| 5 | C & GS 11-38-10.6; 10.3 S., 77.9 W. h about 50 km. Peru. (P-H) = 5460 km. ca. or 79.1°. | | | | | | | | | |
| | eZ | 11 | 47 | 02.0 | 1.0 | | | 1.0 | | |
| 5 | C & GS 13-48-00.4; 39.9 N., 104.6 W. h about 33 km. Colorado. Felt: Denver, Pueblo, Sterling. (P-H) = km. ca. or 08.5°. | | | | | | | | | |
| | iPZEN | 13 | 50 | 11.9 | 0.5 | 1.0 | 1.0 | 2.5 | 1.5 | 2.0 |
| | iSZEN | 13 | 52 | 45.5 | 1.0 | 3.0 | 3.0 | 6.0 | 5.0 | 12.0 |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | |
|------|--------|---|---|---|---------------|---|---|-----------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Dec. | | | | | | | | | | |
| 6 | C & GS | 03-45-37.4; 20.7 S., 71.9 W. h about 60 km. near coast of northern Chile. (P-H) = 6540 km. ca. or 58.8°. | | | | | | | | |
| | iPZ | 03-55-41.5 | | | 1.2 | | | 3.0D | | |
| X 6 | C & GS | 04-04-09.8; 40.0 N., 154.3 E. h about 85 km. Kurile Islands. (P-H) = 8260 km. ca. or 74.2°. | | | | | | | | |
| | iPZ | 04-15-46.9 | | | 1.0 | | | 1.5C | | |
| 6 | C & GS | 06-44-17.0; 45.6 S., 73.4 W. h about 33 km. near coast of southern Chile. (P-H) = 9200 km. ca. or 82.9°. | | | | | | | | |
| | iPZ | 06-56-41.6 | | | 1.5 | | | 2.5 | | |
| X 7 | C & GS | 14-03-37; 29.2 N., 139.2 E. h about 411 km. Bonin Islands region Mag. 6 3/4-7 (Berk) (P-H) = 10,780 km. ca. or 97.0°. | | | | | | | | |
| | iPZ | 14-16-28.7 | | | 1.5 | | | 4.0 | | |
| | ePPZ | 18-02.7 | | | 1.2 | | | 4.0 | | |
| | eSZEN | 26-22.7 | | | 1.0 8.0 6.0 | | | 2.0 7.0 6.0 | | |
| 7 | 3Z | 23-18-00.4 | | | 1.0 | | | 1.0 | | |
| 8 | eZ | 08-13-04.9 | | | 1.2 | | | 0.7 | | |
| X 8 | C & GS | 18-18-29.1; 15.2 S., 173.7 W. h about 33 km. Tonga Islands region. (P-H) = 10,000 km. ca. or 90°. | | | | | | | | |
| | iPZ | 18-31-29.1 | | | 2.0 | | | 2.0D | | |
| X 8 | C & GS | 21-27-22.2; 25.8 S., 63.4 W. h about 620 km. Salta Santiago Del. Estero Provinces border, Argentina. (P-H) = 7400 km. ca. or 66.6°. | | | | | | | | |
| | iPZEN | 21-37-22.9 | | | 2.0 2.0 2.0 | | | 20.0C 11.0 7.0 | | |
| | ipPZEN | 21-39-29.0 | | | 3.0 5.0 5.0 | | | 15.0 7.0 10.0 | | |
| | iSZEN | 21-45-36.6 | | | 2.0 10.0 10.0 | | | 3.0 52.5 47.0 | | |
| | ez | 22-04-47.4 | | | 1.5 | | | 1.2 | | |
| X 8 | C & GS | 22-55-01.2; 50.5 N., 176.8 W. h about 33 km. Andreanof Islands, Aleutian Islands. (P-H) = 7400 km. ca. or 66.6°. | | | | | | | | |
| | iPZEN | 23-05-57.1 | | | 1.0 1.0 1.0 | | | 17.0D 1.0 1.0 | | |
| 8 | iZ | 23-34-40.8 | | | 2.0 | | | 1.0 | | |
| 9 | iZ | 03-30-57.6 | | | 1.2 | | | 0.7 | | |
| 9 | C & GS | 21-17-02.0; 39.9 N., 140.5 E. h about 33 km. northern Honshu, Japan. (P-H) = 10,000 km. ca. or 90°. | | | | | | | | |
| | iZ | 21-30-02.5 | | | 1.0 | | | 1.0C | | |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | |
|------|---|----------|----|------|--------------|---|---|-----------------|---|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Dec. | | | | | | | | | | |
| + 10 | C & GS 04-56-19.4; 28.3 S., 162.7 E. h about 33 km. Solomon Islands. (P-H) = 12,110 km. ca. or 109°. | | | | | | | | | |
| | iPPZ | 05 | 16 | 14.1 | 1.5 | | | 1.0 | | |
| | eSKS | 20 | 15 | 0 | 1.5 | | | 0.7 | | |
| 10 | C & GS 23-04-42.0; 8.0 S., 108.6 E. h about 193 km. near south coast of Central Java. (P-H) = 16,110 km. ca. or 145°. | | | | | | | | | |
| | iP'Z | 23 | 24 | 00.6 | 1.2 | | | 4.0 | | |
| 11 | C & GS 02-34-09.7; 48.9 S., 124.6 E. h about 33 km. about 2000 km south of Australia. (P-H) = 17,000 km. ca. or 153°. | | | | | | | | | |
| | eP' | 02 | 54 | 00.7 | 1.1 | | | 1.0 | | |
| + 12 | C & GS 10-08-48.5; 4.8 S., 153.8 E. h about 94 km. new Britain. (P-H) = 12,890 km. ca. or 117°. | | | | | | | | | |
| | iPPZ | 10 | 28 | 00.9 | 1.5 | | | 1.0 | | |
| 12 | iZ | 10 | 38 | 19.0 | 1.0 | | | 1.5 | | |
| + 12 | eZ | 23 | 15 | 35.0 | .6 | | | .7 | | |
| | eZ | 19 | 20 | 5 | 1.4 | | | 1.0 | | |
| + 13 | C & GS 04-21-21.2; 63.3 N., 149.7 W. h about 47 km. Kenai Peninsula, Alaska. (P-H) = 6400 km. ca. or 57.5°. | | | | | | | | | |
| | ePZ | 04 | 29 | 16.0 | 1.4 | | | 1.5 | | |
| 13 | eZ | 07 | 06 | 37.1 | 0.7 | | | 0.4 | | |
| + 13 | iP | 15 | 20 | 07.9 | 1.0 | | | 2.0 | | |
| 13 | eZ | 16 | 45 | 33.9 | 1.5 | | | 1.7 | | |
| 13 | iPZ | 19 | 05 | 25.9 | 1.0 | | | 1.5 | | |
| 14 | eZ | 11 | 09 | 45.4 | 1.0 | | | 1.0 | | |
| 14 | iPZ | 13 | 08 | 41.7 | 1.0 | | | 1.0 | | |
| 14 | iPZ | 19 | 50 | 07.6 | 1.0 | | | 2.5 | | |
| 15 | C & GS 06-34-58.6; 40.7 N., 117.5 W. h about 33 km. Nevada, Mag. 4½-4 3/4 (Pas). (P-H) = 3000 km. ca. or 27.0°. | | | | | | | | | |
| | iPZ | 06 | 39 | 17.4 | 1.1 | | | 0.5 | | |
| | eSZ | 44 | 57 | 9 | 1.0 | | | 0.2 | | |
| 16 | eZ | 22 | 25 | 53.2 | 0.6 | | | 0.7 | | |
| | eZ | 29 | 34 | 2 | 0.5 | | | 0.5 | | |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | | 11 |
|------|---|----------|----|--------|--------------|------|---|-----------------|------|---|----|
| | | h | m | s | Z | E | N | Z | E | N | |
| Dec. | | | | | | | | | | | |
| + 17 | C & GS 11-00-16.0; 2.1 N., 122.9 E. h about 393 km. Celebes Sea. (P-H) = 15,555 km. ca. or 131°. | | | | | | | | | | |
| | iP'Z | 11 | 18 | 47.5 | 1.5 | | | 2.5 | | | |
| | ipP'Z | 11 | 20 | 57.1 | 2.0 | | | 2.5 | | | |
| 17 | iPZ | 11 | 21 | 27.7 | 1.5 | | | 3.5 | | | |
| 17 | eZ | 16 | 14 | 10.1 | 1.0 | | | 1.0 | | | |
| 17 | eZ | 21 | 33 | 08.5 | 0.7 | | | 1.0 | | | |
| 18 | C & GS 07-48-36.6; 35.2 S., 104.8 W. h about 33 km. Easter Island Region. (P-H) = 7980 km. ca. or 115.5°. | | | | | | | | | | |
| | eZ | 07 | 59 | 57.7 | 0.7 | | | 0.5 | | | |
| 18 | eZ | 23 | 37 | 16.4 | 1.0 | | | 1.0 | | | |
| 19 | eZ | 08 | 11 | 10.6 | 1.5 | | | 1.0 | | | |
| 20 | iPZ | 02 | 22 | 50.1 | 1.5 | | | 1.0 | | | |
| + 20 | eZ | 09 | 00 | 52.5 | 0.8 | | | 0.5 | | | |
| 20 | eZ | 15 | 45 | 53.7 | 1.0 | | | 0.7 | | | |
| + 21 | C & GS 00-44-19.7; 9.0 S., 112.4 E. h about 64 km. near south coast of Java. (P-H) = 16,110 km. ca. or 145°. | | | | | | | | | | |
| | iP'ZEN | 01 | 03 | 47.2 | 1.0 | | | 7.5D | | | |
| + 21 | C & GS 06-27-49.1; 52.5 N., 168.7 W. h about 33 km. Fox Islands, Aleutian Islands. (P-H) = 5800 km. ca. or 52.8°. | | | | | | | | | | |
| | iPZ | 06 | 37 | 05.7 A | 0.7 | | | 2.5C | | | |
| + 21 | C & GS 08-42-48.3; 52.4 N., 168.5 W. h about 33 km. Fox Islands, Aleutian Islands. Mag. 6¼ (Berk) 6½ (Pas) 6¾ (Pal) (P-H) = 5800 km. ca. or 58.8°. | | | | | | | | | | |
| | iPZEN | 08 | 52 | 04.9 | 1.0 | | | 3.5 | | | |
| | eSZEN | 08 | 55 | 57.1 | 3.0 | 14.0 | | 1.0 | 12.5 | | |
| + 21 | iPZ | 09 | 19 | 17.0 | 1.0 | | | 3.5 | | | |
| + 21 | C & GS 09-33-15.5; 42.4 N., 142.3 E. h about 27 km. near south coast of Hokkaido, Japan. (P-H) = 9600 km. ca. or 86.5°. | | | | | | | | | | |
| | iPZ | 09 | 45 | 56.2 | 1.2 | | | 3.5 | | | |
| 21 | iPZ | 09 | 52 | 55.9 | 1.0 | | | 3.5 | | | |
| 21 | iPZ | 21 | 20 | 14.7 | 0.6 | | | 2.5 | | | |

| Date | Phase | Time GCT | | | Period (Sec) | | | Trace (Amp) mms | | | 12 |
|------|--|------------|---|---|--------------|------|------|-----------------|------|------|----|
| | | h | m | s | Z | E | N | Z | E | N | |
| Dec. | | | | | | | | | | | |
| → 22 | C & GS 01-28-48.9; 21.9 S., 170.1 E. h about 33 km. Lyalty Islands-region. (P-H) = 12,110 km. ca. or 109°. | | | | | | | | | | |
| | eSZN | 01-48-05 | | | 20.0 | 20.0 | | 7.0 | 5.0 | | |
| + 22 | iPZ | 02-19-18.8 | | | 2.5 | | | 6.0 | | | |
| + 22 | C & GS 15-20-31.0; 52.5 N., 168.8 W. h about 47 km. Fox Islands, Aleutian Islands. Mag. 6½ (Pas) (P-H) = 5800 km. ca. or 52.1°. | | | | | | | | | | |
| | iPZEN | 15-29-45.7 | | | 1.5 | 1.5 | 1.5 | 5.0D | 3.0 | 2.5 | |
| | iSEN | 37-21.1 | | | | 20.0 | 20.0 | | 5.0 | 8.0 | |
| | eLZEN | 51-01.3 | | | 15.0 | 18.0 | 17.0 | 1.0 | 27.0 | 20.0 | |
| + 26 | C & GS 22-25-15.5; 53.9 N., 158.7 E. h about 33 km. Komandorskic Islands. Mag. 6½ (Pas) (Pal) (P-H) = 7300 km. ca. or 65.6°. | | | | | | | | | | |
| | iPZEN | 22-35-55.8 | | | 1.5 | 3.0 | 3.0 | 6.0D | 5.0 | 3.5 | |
| | iSEN | 41-31.6 | | | | 6.0 | 6.0 | | 17.0 | 10.0 | |
| | eLEN | 00-02.4 | | | | 22.0 | 22.0 | | 10.0 | 8.0 | |
| + 26 | C & GS 23-46-14.7; 54.0 N., 168.8 E. h about 33 km. Romandorski Islands. (P-H) = 7300 km. ca. or 65.1°. | | | | | | | | | | |
| | iPZEN | 23-56-54.7 | | | 1.3 | | | 3.0C | | | |
| 27 | C & GS 11-13-38.2; 28.6 S., 67.4 W. h about 33 km. near coast of Central Chili. (P-H) = 7600 km. ca. or 110.5°. | | | | | | | | | | |
| | iPZ | 11-24-42.6 | | | 0.7 | | | 2.7 | | | |
| 27 | iPZ | 13-07-47.6 | | | 0.6 | | | 0.2 | | | |
| + 27 | C & GS 18-18-42.0; 39.9 N., 142.0 E. h about 36 km. near west coast of southern Honshu, Japan. | | | | | | | | | | |
| | iPZ | 18-31-30.4 | | | 1.0 | | | 3.5 | | | |
| 27 | iPZ | 20-32-13.7 | | | 1.0 | | | 2.5 | | | |
| 28 | C & GS 19-50-10.7; 42.9 N., 145.4 E. h about 41 km. off east coast of Hokkaido, Japan. (P-H) = 9280 km. ca. or 120°. | | | | | | | | | | |
| | iPZ | 20-02-39.8 | | | 1.5 | | | 1.5 | | | |
| + 29 | iPZ | 04-31-08.9 | | | 0.7 | | | 0.7 | | | |
| + 29 | C & GS 10-41-04.1; 20.0 S., 69.9 W. h about 46 km. northern Chile. Felt: Arequipa, Peru. Mag. 6 3/4 (Pas), 6½ (Berk), 6 (Pal). (P-H) = 6,600 km. ca. or 95.6°. | | | | | | | | | | |
| | iPZEN | 10-51-09.5 | | | 1.5 | 4.0 | 4.0 | 7.0 | 4.0 | 6.0 | |
| | iSZEN | 59-21.1 | | | 4.0 | 7.0 | 7.0 | 0.5 | 8.0 | 12.0 | |
| | eLEN | 11-12-08.6 | | | | 24.0 | 20.0 | | 2.0 | 1.0 | |

| Date | Phase | Time GCT | | | Period (Sec) | | | Tract (Amp) mms | | |
|------------|---|----------|----|------|--------------|------|---|-----------------|-----|---|
| | | h | m | s | Z | E | N | Z | E | N |
| Dec. 29 | eLEN | 15 | 40 | 03.1 | 20.0 | 20.0 | | 2.5 | 2.5 | |
| 30 | eZ | 07 | 15 | 23.2 | 1.0 | | | 1.0 | | |
| 30 | eZ | 11 | 00 | 16.9 | 0.7 | | | 0.7 | | |
| * 31 | C & GS 08-00-23.4; 52.5 N., 160.8 E. h about 47 km. near west coast of Kamchatka. (P-H) = 7330 km. ca. or 106.5°. | | | | | | | | | |
| | eZ | 08 | 11 | 33.4 | 1.4 | | | 1.5 | | |
| * 31 | eZ | 11 | 34 | 22.2 | 0.5 | | | 0.5 | | |
| 31 | C & GS 15-42-23.0; 62.5 N., 149.5 W. h about 113 km. Central Alaska. (P-H) = 4600 km. ca. or 41.5°. | | | | | | | | | |
| | iPZ | 15 | 50 | 10.2 | 0.7 | | | 0.4 | | |
| 31 | C & GS 20-49-35.3; 37.1 N., 122.0 W. h about 33 km. Pierce County, Washington. Felt; Olympia and surrounding area. (P-H) = 2600 km. ca. or 37.8°. | | | | | | | | | |
| | iPZ | 20 | 54 | 42.1 | 1.0 | | | 2.5 | | |
| | iSZ | 21 | 02 | 04.4 | 2.0 | | | 1.5 | | |

The University of Arkansas Seismograph Station is located on the University Farm, 2.5 miles northwest of the main campus at Fayetteville. Coordinates of the station are $36^{\circ} 05.46''$ north latitude and $94^{\circ} 11.47'$ west longitude. Altitude above mean sea level is 1,325 feet. The seismometer pier rests on the Boone limestone of lower Mississippian age. Approximately 2,500 feet of limestone, shale and sandstone overlie the pre-Cambrian crystalline rocks in the vicinity of the station.



University of Arkansas
Seismograph Station
Department of Geology
Fayetteville, Arkansas