# Hawaiian Volcano Observatory
# 1973 Quarterly Administrative reports

Introductory Note By Thomas L. Wright and Jennifer S. Nakata

**Compiled By Jennifer S. Nakata**

Summary 69
January, February, and March 1973
By Arnold T. Okamura and Robert Y. Koyanagi
Chronological Summary By Donald W. Peterson

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April, May, and June 1973
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By Patricia Stevenson, Robert Y. Koyanagi, and Arnold T. Okamura
Chronological Summary By Robert I. Tilling

**Open-File Report 2007-1333**
U.S. Department of the Interior
U.S. Geological Survey

U.S. Department of the Interior
DIRK KEMPTHORNE, Secretary

U.S. Geological Survey
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U.S. Geological Survey, Reston, Virginia 2007

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## INTRODUCTORY NOTE

The Hawaiian Volcano Observatory Summaries have been published in the current format since 1956. The Quarterly Summaries (1956 through 1973) and the Annual Summaries (1974 through 1985) were originally published as Administrative Reports. These reports have been compiled and published as U.S. Geological Survey Open-File Reports. The quarterly reports have been combined and published as one annual summary. All the summaries from 1956 to the present are now available as .pdf files at http://www.usgs.gov/pubprod.

The earthquake summary data are presented as a listing of origin time, depth, magnitude, and other location parameters. Network instrumentation, field station sites, and location algorithms are described. Tilt and other deformation data are included until Summary 77, January to December 1977. From 1978, the seismic and deformation data are published separately, due to differing schedules of data reduction.

There are eight quarters—from the fourth quarter of 1959 to the third quarter of 1961—that were never published. Two of these (4th quarter 1959, 1st quarter 1960) have now been published, using handwritten notes of Jerry Eaton (HVO seismologist at the time) and his colleagues. The seismic records for the remaining six summaries went back to California in 1961 with Jerry Eaton. Other responsibilities intervened, and the seismic summaries were never prepared.

Chronology

The following Kīlauea eruption chronology covers the two recent reports and the six missing quarters:

| Location | Beginning Date | Ending Date | Comment |
|---|---|---|---|
| Kīlauea Iki crater (Kīlauea's summit) | 11/14/1959 | 12/20/1959 | 19 eruptive episodes |
| Kapoho (lower east rift zone) | 1/13/1960 | 2/18/1960 | 4 eruption stages |
| Halemaumau (Kīlauea's summit) | 2/24/1961 | 2/24/1961 | Intermittent activity during uninterrupted inflation following the 1960 eruption |
| Halemaumau (Kīlauea's summit) | 3/22/1961 | 3/25/1961 | Same as above. |
| Halemaumau (Kīlauea's summit) | 7/10/1961 | 7/17/1961 | Same as above. |
| Heiheiahulu (middle east rift zone) | 9/22/1961 | 9/25/1961 | First historical east rift eruption at this location |

The 1959-1960 eruptions were among two of the most spectacular Kīlauea eruptions. The HVO staff was kept busy with acquisition of unusually high quantities of instrumental data and observations of the two sequences, which were separated by less than one month. Even with a year's interval before the beginning of the summit-east rift sequence in 1961, the staff never caught up, and the seismic records were set aside for later study.

A total of 1,672 earthquakes—1,106 for 1960 and 566 for 1961—are part of HVO's cataloged database. The annual listings have been appended to the 1st Quarter Report of 1960 and to the 4th Quarter Report for 1961. The number of earthquakes is probably low, biased toward the larger magnitudes. The entire HVO catalog, including 1960 and 1961, is accessible from the ANSS CATALOG SEARCH site at http://www.ncedc.org/anss/catalog-search.

Thomas L. Wright and Jennifer S. Nakata

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# HAWAIIAN VOLCANO OBSERVATORY

## SUMMARY 69

January, February, and March 1973


**This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature**

*Menlo Park, California*

*1977*

UNITED STATES
DEPARTMENT OF THE INTERIOR
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# HAWAIIAN VOLCANO OBSERVATORY

## SUMMARY 69

January, February, and March 1973

By
Arnold T. Okamura*, Robert Y. Koyanagi,
and
Chronological Summary
By
Donald W. Peterson

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## SUMMARY OF ERUPTIVE ACTIVITY

Kilauea's eruption on the upper east-rift zone at Mauna Ulu and Alae continued without interruption throughout this quarter. The lava lake in Mauna Ulu's summit crater, its main vent in the trench about 170 m east of the lake, and the conduit system feeding both the lake and the subsidiary vent at Alae all continued to behave in the same basic pattern established in earlier months (see Quarterly Summaries Nos. 67 and 68). The surface of the lava lake in Mauna Ulu fluctuated from 24 to 35 m below the rim, and generally stood at 30 m.

The vent at Alae continued to serve as the main opening through which lava reached and spread out over the ground. The vent itself, near the northern edge of the crusted lava lake at the summit area of the newly constructed Alae lava shield, changed frequently in configuration. "Gas-piston" behavior was common, during which lava quietly and slowly rose within the vent, then abruptly underwent vigorous fountaining as a large gas bubble escaped. During such degassing and fountaining the level dropped back in the vent from several meters to a few tens of meters. Then the process would be repeated. Duration of cycles varied from 15 minutes to several hours, but averaged from 1/2 to 1 hour.

During most of the quarter, the Alae vent fed lava into conduits below the surface of the crusted lava lake. At the beginning of January most of the lava was being directed into a surface flow and growing lava-tube system that was extending toward the south-southwest. On January 5, lava descended Poliokeawe Pali and, on January 12, Holei Pali. Lava continued to flow through this channel-tube system for the remainder of the quarter. For several weeks, pahoehoe flows spread out across the coastal flats between the base of Holei Pali and the shore near Apua Point. On February 24 lava reached the ocean about 1 km west of Apua Point and for the rest of the quarter continued to enter the sea. By the end of March, the resultant lava delta had added about 0.175 $km^2$ of new land to the island and was continuing to grow.

Meanwhile, another lava-tube system, trending easterly from Alae and formerly active in fall, 1972, became reactivated; by January 24 lava again poured into Makaopuhi Crater. By mid-February Makaopuhi's west pit was filled to the level of the east pit's floor ("mezzanine"), and no vestige of the scarp remained that had previously defined the west pit's outline. Lava slowly spread across the floor of the east pit, ultimately covering about two-thirds of its area before the inflow into Makaopuhi dwindled and ceased in early March. The decline in the supply of lava to Makaopuhi apparently resulted from blockage in the tube system about 100 m east of the Alae vent. New overflows from a tube skylight led to the growth of a new satellitic lava shield on the northeast flank of Alae.

## SEISMIC SUMMARY

Events recorded by the U.S. Geological Survey seismograph network in Hawaii fall into two categories:

1) Local earthquakes and tremor originating in the region of the Hawaiian Islands (usually within 100 km of at least one seismograph),

2) Distant earthquakes originating more than 3,000 km from Hawaii.

As an index of seismic activity at Hawaiian volcanoes, daily counts of earthquakes and minutes of tremor recorded by seismographs in Hawaii are listed in Table 1. The earthquakes are separated in groups on the basis of region of origin as determined by the analysis of records obtained daily at the observatory (UWE, MLO, MLX, AHU, DES, NPT, WPT, MPH, KMO, OTL).

Computer locations of well-recorded events are listed in Table 2. The location of each seismograph station is listed in Table 4, along with a description of the equipment at each station.

Table 1.--Number of earthquakes and minutes of tremor recorded on seismographs around Kilauea

Tremor is separated into three categories: Deep, Intermediate, and Shallow, on the basis of relative amplitude on seismographs in the summit region. Unless otherwise stated, tremor is presumed to be associated with movement of magma within the central complex of Kilauea Volcano.

Earthquake categories are: Kilauea Summit 30 km, earthquakes from a source about 30 km beneath the summit region; Kilauea Summit long-period, earthquakes characterized by low-frequency waves that originate roughly 5 km beneath the summit region; Kilauea Summit Shallow, earthquakes a few km deep in the caldera region; SW Rift and Kaoiki, earthquakes along the southwest rift zone of Kilauea and the adjacent portions of the Kaoiki fault system; Upper East Rift, earthquakes from the upper east rift zone and the adjacent fault systems of Kilauea's south flank; Koae, earthquakes along the northeast-trending Koae fault system south of the caldera; Lower East Rift, earthquakes from the lower east rift zone of Kilauea; Offshore Puu Pili, offshore earthquakes mostly southeast of Puu Pili (PPL) station.

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | | | | | | |
| | Deep | Inter-mediate | Shallow | 30KM | Long Period | Shallow | SW rift and Kaoiki | Upper east rift | Koae | Lower east rift | Offshore Puu Pili | Remarks |
| Jan 1 | 28m | 10m | Low level tremor from the upper east rift throughout the month | | 79 | 145 | 12 | 11 | 2 | | | |
| 2 | | | | | 181 | 122 | 16 | 13 | 1 | 1 | 2 | |
| 3 | | | | | 101 | 92 | 19 | 13 | | | | |
| 4 | | 8m | | | 65 | 158 | 20 | 31 | 2 | 2 | | |
| 5 | | 16m | | | 144 | 86 | 12 | 20 | 1 | | | |
| 6 | | 6m | | | 120 | 129 | 10 | 19 | 3 | | | |
| 7 | | 8m | | | 78 | 166 | 13 | 13 | | 3 | | |
| 8 | | | | | 44 | 148 | 19 | 25 | 4 | 2 | | |
| 9 | | | | 1 | 26 | 139 | 11 | 20 | 3 | | | |
| 10 | | 14m | | 2 | 16 | 159 | 12 | 26 | 7 | 2 | | |
| 11 | | | | | 43 | 155 | 20 | 23 | 1 | 2 | | |
| 12 | | | | 1 | 32 | 168 | 30 | 32 | 1 | 2 | 2 | |
| 13 | | | | | 15 | 159 | 27 | 38 | 4 | 5 | 2? | |
| 14 | | 26m | | | 14 | 135 | 15 | 18 | 5 | 3 | | |
| 15 | | 25m | | | 54 | 173 | 19 | 23 | 7 | | | |
| 16 | | 3m | | | 23 | 143 | 10 | 12 | 1 | | | |
| 17 | | | | 3 | 25 | 174 | 15 | 16 | 1 | 1 | | |
| 18 | | | | 1 | 16 | 150 | 14 | 22 | 2 | 1 | | |
| 19 | | 3m | | 1 | 17 | 149 | 15 | 36 | 10 | 1 | | |
| 20 | | | | | 19 | 154 | 18 | 22 | 5 | 1 | | |
| 21 | | 7m | | | 18 | 175 | 14 | 26 | 1 | 2 | | |
| 22 | | 2m | | | 16 | 110 | 8 | 20 | 5 | 2 | | |
| 23 | | 4m | | 1 | 25 | 116 | 12 | 17 | 8 | 1 | | |
| 24 | | | | 2 | ? | 58? | 22 | 10 | 1 | 1 | | |
| 25 | | | | | 6 | 115 | 9 | 27 | 2 | | | Increase of small |
| 26 | | | | 1 | 38 | 102 | 13 | 8 | 2 | 2 | | rockfalls at |
| 27 | | | | | 2 | 97 | 18 | 19 | 1 | 1 | | Makaopuhi during |
| 28 | | 7m | | | 6 | 121 | 13 | 25 | 6 | | | the last week |
| 29 | | | | | 18 | 98 | 10 | 39 | 3 | | | |
| 30 | | | | | 49 | 123 | 4 | 37 | 2 | | | |
| 31 | 5m | 3m | | | 8 | 98 | 13 | 31 | 5 | 2 | 1 | |

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | | | | | | | |
| | Deep | Inter-mediate | Shallow | 30KM | Long Period | Shallow | SW rift and Kaoiki | Upper east rift | Kɔae | Lower east rift | Offshore Puu Pili | Remarks |
| Feb 1 | | 13m | Low level tremor from the upper east rift throughout the month | | 28 | 93 | 13 | 57 | 6 | 1 | | Small rockfalls and "gas explosions" at Makaopuhi |
| 2 | 39m | 11m | | 3 | 137 | 112 | 11 | 101? | 9 | 2 | | |
| 3 | | 6m | | 1 | 60 | 70 | 14 | 107? | 7 | 7 | | |
| 4 | | | | 1 | 45 | 73 | 16 | 91? | 5 | 2 | | |
| 5 | | 8m | | 1 | 97 | 65 | 9 | 94? | 1 | 3 | | |
| 6 | | 3m | | 2 | 18 | 83 | 10 | 80? | 1 | 2 | | |
| 7 | | 3m | | 2 | 15 | 95 | 16 | 108? | 3 | 3 | | |
| 8 | | 5m | | 2 | 138 | 86 | 15 | 81? | 10 | 2 | | |
| 9 | | | | | 9 | 112 | 22 | 19 | 2 | 1 | | |
| 10 | | | | | 18 | 96 | 19 | 53 | 1 | 1 | | |
| 11 | | 7m | | 2 | 7 | 97 | 20 | 49 | 2 | 2 | | |
| 12 | | | | 8 | 24 | 100 | 18 | 99? | | 1 | | |
| 13 | | 10m | | 1 | 13 | 98 | 13 | 88? | 7 | 6 | | |
| 14 | | | | 3 | 31 | 95 | 14 | 96? | 8 | 1 | | |
| 15 | | 2m | | | 15 | 109 | 13 | 103? | 3 | 1 | | |
| 16 | | 2m | | 2 | 3 | 88 | 14 | 106? | 2 | 9 | | |
| 17 | | | | | 4 | 63 | 10 | 64? | 4 | 3 | | |
| 18 | | 3m | | | 17 | 79 | 11 | 83? | 7 | 4 | | |
| 19 | | | | | 13 | 66 | 7 | 43 | 3 | 4 | | |
| 20 | | 5m | | | 33 | 50 | 10 | 50 | | 4 | | |
| 21 | | | | 1 | 26 | 49? | 10 | 23 | 7 | | | |
| 22 | | | | 1 | 9 | 88 | 16 | 54 | 4 | 1 | | |
| 23 | | | | 2 | 3 | 104 | 12 | 25 | 1 | 2 | | |
| 24 | | | | | 24 | 88 | 17 | 53 | | 8 | 5 | |
| 25 | | | | | 5 | 55 | 6 | 47 | 3 | 2 | | |
| 26 | | | | 1 | 6 | 90 | 15 | 27 | 4 | 4 | | |
| 27 | | | | 1 | 5 | 90 | 14 | 33 | | 5 | | |
| 28 | | | | | 13 | 82 | 8 | 34 | 3 | 2 | | |

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | | | | | | | |
| | Deep | Inter-mediate | Shallow | 30KM | Long Period | Shallow | SW rift and Kaoiki | Upper east rift | Koae | Lower east rift | Offshore Puu Pili | Remarks |
| Mar 1 | | 6m | Low to moderate tremor from the upper east rift throughout the month | | 28 | 72 | 12 | 30 | 2 | 2 | | Scattered rockfall activity at Makaopuhi during the month |
| 2 | 35m | 4m | | | 5 | 62 | 10 | 29 | 3 | 1 | | |
| 3 | | | | | | 64 | 9 | 26 | 1 | 1 | | |
| 4 | | | | | 10 | 90 | 14 | 50 | 3 | 4 | | |
| 5 | | | | | | 174 | 20 | 32 | 1 | 2 | | |
| 6 | | | | | 15 | 60 | 11 | 33 | 3 | 3 | | |
| 7 | | | | 1 | 2 | 81 | 8 | 20 | 11 | 1 | 1 | |
| 8 | | | | | 11 | 53 | 8 | 19 | 6 | 1 | | |
| 9 | | | | | 27 | 122 | 19 | 30 | 1 | 1 | | |
| 10 | | | | 2 | 20 | 136 | 30 | 25 | 1 | 3 | 2 | |
| 11 | | | | | 10 | 112 | 6 | 31 | 5 | | | |
| 12 | | 3m | | | 18 | 83 | 12 | 18 | 2 | | | |
| 13 | | 19m | | 1 | 17 | 91 | 11 | 21 | | | | |
| 14 | | | | | 30 | 91 | 18 | 9 | 3 | | | |
| 15 | | | | | 41 | 65 | 19 | 16 | | | | |
| 16 | | | | | 29 | 81 | 12 | 21 | | | | |
| 17 | | | | 1 | 19 | 71 | 19 | 25 | 1 | 1 | | |
| 18 | | | | | 17 | 85 | 16 | 37 | 2 | | | |
| 19 | | | | 1 | 44 | 94 | 10 | 14 | 1 | | | |
| 20 | | | | 2 | 42 | 121 | 17 | 11 | 2 | 1 | | |
| 21 | | 5m | | | 50 | 102 | 12 | 7 | | | | |
| 22 | | | | 1 | 62 | 90 | 15 | 10 | 1 | | 1 | |
| 23 | | 9m | | | 35 | 163 | 15 | 5 | 2 | | 1 | |
| 24 | 19m | | | | 5 | 112 | 30 | 11 | 1 | 1 | | |
| 25 | | | | | 5 | 102 | 21 | 9 | 2 | | | |
| 26 | | | | 1 | 1 | 111 | 9 | 19 | 6 | 1 | | |
| 27 | 5m | | | | 18 | 106 | 17 | 15 | 8 | 1 | | |
| 28 | | | | | 38 | 102 | 48 | 30 | 9 | 2 | | |
| 29 | ? | 5m | | 1 | 40 | 106 | 16 | 20 | 11 | 2 | | |
| 30 | | | | 1 | 57 | 182 | 36 | 16 | 3 | | 2 | |
| 31 | | | | | 79 | 136 | 23 | 9 | 3 | 1 | 1 | |

Table 2 is a chronological listing of successfully located earthquakes. For each event the following data are presented:

Origin time in Hawaiian Standard Time: date, hour (HR), minute (MN), and second (SEC).

Epicenter in degrees and minutes of North latitude (LAT N) and West longitude (LONG W). Poor convergence of the epicenter solution is indicated by "?".

Depth - depth of focus in km. Assumed depth is indicated by "*".

Mag - magnitude, if determined.

NO - number of stations used in locating earthquakes.

GAP - largest azimuthal separation in degrees between stations.

DMIN - epicentral distance in km to the nearest station.

ERT - standard error of the origin time in seconds.

ERH - standard error of the epicenter in km.

ERZ - standard error of the depth in km.

MD - mean deviation of the time residuals. $\left[ = \sum_i R_i^2 / NO \right]^{1/2}$ where $R_i$ is the observed seismic wave arrival time less the computed time at the $i^{th}$ station.

Q - solution quality of the hypocenter. This measure is intended to indicate the general reliability of each solution:

| Q | Epicenter | Focal Depth |
|---|---|---|
| A | excellent | good |
| B | good | fair |
| C | fair | poor |
| D | poor | poor |

Q is based both on the nature of the station distribution with respect to the earthquake and the statistical measures of the solution. These two factors are each rated independently according to the following scheme:

## Station Distribution

| | NO | GAP | DMIN |
|---|---|---|---|
| A | $\geq$ 8 | $\leq$ 120° | $\leq$ DEPTH or 5 km |
| B | $\geq$ 6 | $\leq$ 150° | $\leq$ 2 x DEPTH or 10 km |
| C | $\geq$ 6 | $\leq$ 225° | $\leq$ 50 km |
| | $\geq$ 4 | $\leq$ 180° | |
| D | Others | | |

## Statistical Measures

| | ERH(km) | ERZ(km) | MD(sec) | RMAX(sec)* |
|---|---|---|---|---|
| A | $\leq$ 1.0 | $\leq$ 2.0 | $\leq$ 0.10 | $\leq$ 0.25 |
| B | $\leq$ 2.5 | $\leq$ 5.0 | $\leq$ 0.20 | $\leq$ 0.50 |
| C | $\leq$ 5.0 | | $\leq$ 0.30 | $\leq$ 0.75 |
| D | Others | | | |

Q is taken as the average of the ratings from the two schemes, that is, an A and a C yield a B, and two B's yield a B. When the two ratings are only one level apart the lower one is used, that is, an A and a B yield a B (Hamilton and others, 1969).

The criteria for Q are the same as used by the Office of Earthquake Research and Crustal Studies, U. S. Geological Survey.

*RMAX is the maximum residual

Table 2 SUMMARY OF SEISMIC EVENTS

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN 1 | 14 | 40 | 34.3 | 19-15.6 | 155- 1.3 | 35.1 | 1.2 | 17 | 226 | 8.3 | 0.34 | 1.7 | 2.8 | 0.11 | C |
| 1 | 19 | 14 | 29.3 | 19-19.8 | 155-15.5 | 8.3 | 1.5 | 19 | 162 | 3.4 | 0.07 | 0.6 | 1.0 | 0.12 | C |
| 1 | 20 | 19 | 24.5 | 19-18.8 | 155-12.4 | 3.1 | 2.1 | 24 | 155 | 6.8 | 0.15 | 0.9 | 1.1 | 0.25 | C |
| 1 | 21 | 34 | 24.4 | 19-12.0 | 155-31.3 | 29.3 | 0.9 | 11 | 86 | 7.7 | 0.30 | 1.7 | 3.2 | 0.14 | B |
| 1 | 23 | 28 | 54.3 | 19- 9.9 | 155-29.0 | 40.2 | 1.4 | 16 | 113 | 2.2 | 0.33 | 1.7 | 3.0 | 0.12 | B |
| 2 | 2 | 25 | 34.7 | 19-22.5 | 155-26.9 | 5.2 | 0.8 | 18 | 76 | 7.6 | 0.09 | 0.7 | 0.8 | 0.19 | C |
| 2 | 7 | 10 | 18.0 | 19-20.2 | 155-26.6 | 8.0* | 0.4 | 12 | 210 | 5.7 | 0.17 | 1.2 | | 0.15 | C |
| 2 | 18 | 27 | 17.9 | 19-24.4 | 155-17.3 | 9.4 | 1.5 | 9 | 73 | 1.1 | 0.19 | 0.7 | 1.6 | 0.07 | A |
| 2 | 18 | 59 | 23.9 | 19-25.0 | 155-17.5 | 9.7 | 1.4 | 8 | 88 | 0.8 | 0.27 | 1.0 | 2.2 | 0.07 | B |
| 2 | 19 | 30 | 18.7 | 19-24.4 | 155-17.1 | 8.7 | 1.4 | 9 | 70 | 0.9 | 0.19 | 0.8 | 1.7 | 0.08 | A |
| 2 | 20 | 5 | 4.5 | 19-24.4 | 155-17.0 | 8.3 | 1.5 | 7 | 128 | 1.0 | 0.24 | 1.5 | 2.0 | 0.07 | B |
| 2 | 20 | 20 | 10.8 | 19-10.4 | 155-34.0 | 6.4 | 3.6 | 23 | 107 | 10.0 | 0.16 | 1.0 | 1.0 | 0.22 | C |
| 2 | 21 | 3 | 40.5 | 19-24.1 | 155-17.4 | 8.3 | 1.1 | 10 | 79 | 1.6 | 0.08 | 0.5 | 0.8 | 0.07 | A |
| 2 | 22 | 16 | 22.8 | 19-22.4 | 155-25.5 | 3.3 | 0.9 | 17 | 120 | 5.6 | 0.14 | 0.9 | 1.5 | 0.24 | C |
| 3 | 0 | 53 | 12.5 | 19-24.4 | 155-17.1 | 9.4 | 1.6 | 9 | 70 | 0.9 | 0.17 | 0.6 | 1.4 | 0.06 | A |
| 3 | 3 | 32 | 40.3 | 19-24.4 | 155-16.9 | 9.5 | 1.4 | 9 | 71 | 1.0 | 0.17 | 0.6 | 1.4 | 0.05 | A |
| 3 | 6 | 7 | 1.1 | 19-16.5 | 156-11.1 | 15.3* | 3.2 | 18 | 291 | 32.9 | 0.74 | 4.6 | | 0.13 | D |
| 3 | 8 | 33 | 3.3 | 19-19.1 | 155-46.0? | 7.1 | 0.8 | 6 | 182 | 12.4 | 0.25 | 1.9 | 2.4 | 0.09 | C |
| 3 | 8 | 39 | 13.9 | 19-19.8 | 155-12.4 | 4.3 | | 18 | 169 | 6.2 | 0.15 | 1.0 | 1.1 | 0.22 | C |
| 3 | 19 | 21 | 27.0 | 19-18.6 | 155-23.9 | 4.0 | | 6 | 148 | 3.2 | 0.18 | 0.8 | 2.5 | 0.06 | B |
| 4 | 1 | 47 | 0.5 | 19-20.3 | 155-12.4 | 5.8 | 1.5 | 21 | 155 | 4.0 | 0.11 | 0.8 | 0.7 | 0.22 | C |
| 4 | 2 | 15 | 26.9 | 19-23.7 | 155-23.3 | 8.0* | 1.4 | 15 | 65 | 6.3 | 0.04 | 0.3 | | 0.07 | B |
| 4 | 3 | 22 | 44.9 | 20- 3.9 | 155-45.1 | 8.3 | 1.7 | 22 | 146 | 7.5 | 0.14 | 3.6 | 7.8 | 0.14 | C |
| 4 | 8 | 42 | 36.9 | 19-23.4 | 155- 3.8 | 8.0* | | 11 | 106 | 6.7 | 0.09 | 0.8 | | 0.12 | B |
| 4 | 16 | 28 | 32.9 | 19-22.0 | 155-25.0 | 6.3 | 1.1 | 14 | 231 | 9.8 | 0.33 | 1.8 | 1.1 | 0.19 | C |
| 4 | 19 | 12 | 47.2 | 19-21.2 | 155-29.5 | 6.7 | 1.6 | 20 | 67 | 10.1 | 0.09 | 0.6 | 0.7 | 0.16 | B |
| 4 | 22 | 3 | 51.2 | 19-20.5 | 155- 8.4 | 8.6 | 1.2 | 14 | 158 | 3.8 | 0.08 | 0.7 | 1.4 | 0.10 | B |
| 5 | 0 | 50 | 17.0 | 19-19.9 | 155- 7.8 | 8.0* | 0.7 | 11 | 169 | 5.4 | 0.11 | 1.1 | | 0.14 | C |
| 5 | 6 | 25 | 47.7 | 19-19.9 | 155-14.6 | 6.5 | 1.1 | 11 | 179 | 4.8 | 0.16 | 1.0 | 1.2 | 0.17 | C |
| 5 | 14 | 27 | 59.4 | 19-19.6 | 155-13.9 | 13.6 | 0.1 | 6 | 193 | 6.2 | 0.17 | 1.2 | 1.7 | 0.04 | C |
| 6 | 2 | 2 | 36.1 | 19-19.5 | 155- 8.6 | 9.3 | 0.4 | 9 | 176 | 5.3 | 0.15 | 1.1 | 2.4 | 0.10 | C |
| 6 | 5 | 7 | 1.3 | 19-23.6 | 154-59.3 | 5.1 | 1.3 | 13 | 176 | 9.4 | 0.17 | 1.3 | 1.1 | 0.18 | C |
| 6 | 13 | 12 | 9.9 | 19-45.7 | 155-25.5 | 26.1 | 1.5 | 11 | 96 | 4.1 | 0.25 | 1.2 | 3.0 | 0.12 | B |
| 6 | 14 | 46 | 57.8 | 19-19.4 | 155-15.5? | 9.9 | | 8 | 181 | 3.5 | 0.65 | 2.8 | 6.4 | 0.18 | C |
| 6 | 20 | 16 | 37.1 | 19- 8.4 | 155-34.5 | 5.6 | 1.8 | 10 | 127 | 11.8 | 0.11 | 0.9 | 1.1 | 0.14 | C |
| 6 | 22 | 25 | 20.1 | 19-20.6 | 155-12.4 | 8.0* | | 9 | 187 | 5.1 | 0.19 | 1.7 | | 0.19 | C |
| 7 | 11 | 41 | 24.4 | 19-20.1 | 155-24.2 | 7.0 | 0.5 | 14 | 101 | 1.6 | 0.09 | 0.8 | 0.6 | 0.17 | B |
| 7 | 22 | 27 | 39.7 | 19-20.8 | 155-12.3 | 7.8 | 0.9 | 14 | 150 | 3.2 | 0.12 | 1.1 | 0.6 | 0.17 | B |
| 7 | 22 | 58 | 49.7 | 19-24.4 | 155-24.6? | 0.0 | 1.3 | 12 | 130 | 8.1 | 7.38 | 0.8 | 14.1 | 0.17 | C |
| 7 | 23 | 8 | 58.3 | 19-34.5 | 155- 9.4 | 8.0* | 1.5 | 13 | 157 | 12.6 | 0.13 | 1.0 | | 0.20 | C |
| 8 | 10 | 51 | 39.5 | 19-37.7 | 156- 0.5 | 8.0* | 3.3 | 18 | 223 | 42.5 | 0.30 | 2.3 | | 0.20 | C |
| 8 | 23 | 40 | 34.9 | 19-24.7 | 155-24.7? | 0.0 | 1.5 | 12 | 129 | 8.7 | 9.22 | 1.0 | 17.6 | 0.19 | C |
| 9 | 0 | 29 | 36.7 | 19-19.3 | 155-15.4 | 5.7 | | 16 | 183 | 3.8 | 0.18 | 1.1 | 0.9 | 0.20 | C |
| 9 | 1 | 27 | 6.7 | 19-20.9 | 155-12.6? | 1.2 | 2.2 | 18 | 155 | 2.8 | 0.13 | 0.9 | 1.6 | 0.22 | C |
| 9 | 2 | 47 | 16.9 | 19- 4.5 | 155- 8.5 | 14.4* | | 14 | 275 | 37.8 | 0.32 | 2.3 | | 0.20 | D |
| 9 | 6 | 35 | 25.7 | 19-21.8 | 155-24.5 | 7.8 | 1.6 | 19 | 57 | 3.5 | 0.09 | 0.8 | 0.7 | 0.18 | B |
| 9 | 6 | 51 | 32.6 | 19-19.8 | 155-11.8 | 5.2 | 2.0 | 19 | 169 | 5.1 | 0.18 | 1.2 | 1.0 | 0.26 | C |
| 9 | 10 | 41 | 54.4 | 19-16.9 | 155-26.6 | 50.8 | 2.5 | 20 | 108 | 0.9 | 0.35 | 1.4 | 3.3 | 0.15 | B |
| 9 | 12 | 54 | 27.7 | 19-29.7 | 155-14.9 | 23.4 | 1.0 | 13 | 122 | 7.8 | 0.13 | 0.7 | 1.4 | 0.07 | B |
| 9 | 19 | 52 | 15.0 | 19-19.7 | 155-24.7 | 5.7 | 2.0 | 8 | 261 | 2.7 | 0.58 | 2.7 | 1.5 | 0.15 | D |
| 9 | 21 | 45 | 20.6 | 19-22.1 | 155-23.8 | 7.8 | 0.6 | 13 | 112 | 3.6 | 0.09 | 0.8 | 1.5 | 0.15 | B |
| 9 | 21 | 55 | 16.4 | 19-20.4 | 155-11.0 | 8.2 | 0.7 | 14 | 189 | 3.8 | 0.09 | 0.7 | 0.4 | 0.10 | B |
| 10 | 2 | 37 | 22.9 | 19-20.1 | 155-11.8 | 10.3 | -0.0 | 12 | 209 | 4.6 | 0.39 | 1.6 | 2.9 | 0.11 | C |
| 10 | 5 | 42 | 53.0 | 19-19.5 | 155-17.6 | 7.0 | 0.7 | 10 | 183 | 1.1 | 0.23 | 1.0 | 1.3 | 0.09 | C |
| 10 | 10 | 54 | 28.9 | 19-25.1 | 155-24.2 | 8.0* | 1.3 | 12 | 182 | 8.3 | 0.05 | 0.4 | | 0.06 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN 10 | 13 | 28 | 35.9 | 19-19.9 | 155-15.2 | 24.5 | 1.7 | 21 | 161 | 3.9 | 0.14 | 1.1 | 1.4 | 0.14 | C |
| 10 | 15 | 1 | 13.7 | 19-19.9 | 155-15.7 | 31.4 | 1.0 | 11 | 187 | 3.1 | 0.18 | 1.0 | 1.6 | 0.08 | B |
| 10 | 21 | 47 | 24.3 | 19-35.1 | 155-41.1? | 4.4 | 0.9 | 14 | 162 | 19.7 | 0.88 | 16.4 | 41.8 | 0.20 | D |
| 11 | 6 | 2 | 23.7 | 19-21.0 | 155-12.8 | 8.0* | | 8 | 172 | 5.4 | 0.09 | 0.7 | | 0.07 | C |
| 11 | 7 | 41 | 32.8 | 19-19.2 | 155-15.9 | 10.6 | | 7 | 229 | 3.1 | 0.25 | 1.2 | 1.7 | 0.04 | C |
| 11 | 10 | 5 | 3.5 | 19-20.1 | 155- 9.3 | 9.2 | 0.2 | 8 | 229 | 3.7 | 0.17 | 1.2 | 1.4 | 0.07 | C |
| 11 | 13 | 10 | 19.7 | 19-21.7 | 155-25.6 | 3.4 | 0.8 | 12 | 70 | 5.0 | 0.10 | 0.8 | 2.0 | 0.19 | B |
| 11 | 17 | 22 | 16.4 | 19-17.6 | 155-22.9? | 4.1 | 1.3 | 10 | 125 | 4.8 | 0.14 | 1.6 | 2.4 | 0.14 | B |
| 12 | 0 | 14 | 31.8 | 19-17.6 | 155-22.8 | 8.0* | 0.2 | 8 | 174 | 4.8 | 0.22 | 1.6 | | 0.22 | C |
| 12 | 2 | 23 | 56.6 | 19-19.1 | 155-24.9? | 6.5 | 0.5 | 14 | 96 | 3.4 | 0.10 | 1.1 | 2.0 | 0.20 | B |
| 12 | 3 | 26 | 19.3 | 19-16.7 | 155- 3.6 | 31.8 | 0.9 | 15 | 254 | 14.7 | 0.40 | 2.1 | 3.1 | 0.08 | C |
| 12 | 3 | 36 | 16.0 | 19-19.2 | 155- 8.6 | 8.3 | 1.5 | 11 | 240 | 5.8 | 0.32 | 2.1 | 2.9 | 0.12 | C |
| 12 | 10 | 0 | 57.9 | 19-15.3 | 155- 8.3 | 41.3 | | 11 | 269 | 18.3 | 0.31 | 2.6 | 2.6 | 0.09 | D |
| 12 | 14 | 45 | 11.4 | 18-55.0 | 155-25.0 | 31.7 | | 19 | 255 | 27.1 | 0.62 | 3.3 | 4.6 | 0.15 | D |
| 13 | 1 | 37 | 34.6 | 19-20.7 | 155-13.7 | 6.8 | | 12 | 169 | 5.0 | 0.23 | 1.3 | 1.4 | 0.18 | C |
| 13 | 6 | 21 | 5.6 | 19-21.9 | 155-24.7? | 9.1 | | 14 | 66 | 3.9 | 0.08 | 0.8 | 2.1 | 0.13 | B |
| 13 | 9 | 42 | 55.4 | 19-24.6 | 155-17.0 | 13.4 | | 13 | 143 | 1.9 | 0.08 | 0.7 | 0.7 | 0.09 | B |
| 13 | 11 | 30 | 0.1 | 19-17.9 | 155-48.1 | 7.9 | 3.7 | 22 | 110 | 8.2 | 0.08 | 0.7 | 1.1 | 0.11 | B |
| 14 | 3 | 57 | 18.7 | 19-17.9 | 155-13.2 | 3.2 | 1.8 | 21 | 202 | 8.4 | 0.21 | 1.1 | 1.6 | 0.20 | C |
| 14 | 6 | 1 | 49.9 | 19-58.8 | 155-34.1 | 8.8 | 3.1 | 27 | 166 | 24.9 | 0.10 | 0.9 | 1.4 | 0.12 | C |
| 14 | 6 | 40 | 17.2 | 19-58.6 | 155-34.0 | 10.1 | 3.2 | 29 | 166 | 24.5 | 0.10 | 0.9 | 1.3 | 0.13 | C |
| 14 | 8 | 9 | 11.8 | 19-59.7 | 155-34.0? | 1.3 | 2.8 | 14 | 174 | 26.2 | 1.57 | 2.9 | 12.0 | 0.22 | C |
| 14 | 8 | 21 | 33.9 | 19-38.3 | 156-14.3 | 14.4* | | 10 | 329 | 83.3 | 5.76 | 34.4 | | 0.12 | D |
| 14 | 8 | 49 | 53.8 | 19-16.6 | 155-27.2 | 4.6 | 1.9 | 7 | 191 | 9.6 | 0.17 | 1.3 | 1.3 | 0.09 | C |
| 14 | 9 | 42 | 41.4 | 19-20.1 | 155-10.9 | 9.5 | 0.3 | 15 | 163 | 4.2 | 0.07 | 0.5 | 1.0 | 0.07 | B |
| 14 | 12 | 10 | 5.9 | 18-52.7 | 155-10.9 | 8.0* | 1.3 | 18 | 267 | 48.5 | 0.50 | 3.3 | | 0.16 | D |
| 14 | 12 | 25 | 21.9 | 19-24.9 | 154-46.8? | 4.0 | 2.0 | 12 | 296 | 13.8 | 1.32 | 5.3 | 3.1 | 0.12 | D |
| 14 | 15 | 58 | 2.3 | 19-24.8 | 155-18.0 | 12.6 | 1.8 | 17 | 78 | 1.3 | 0.03 | 0.4 | 0.3 | 0.07 | A |
| 14 | 19 | 19 | 31.2 | 19-58.1 | 155-35.2? | 1.9 | 1.8 | 12 | 158 | 24.7 | 0.17 | 1.7 | 1.3 | 0.17 | C |
| 14 | 20 | 0 | 57.7 | 19-20.7 | 155- 7.2? | 0.0 | 1.1 | 11 | 165 | 7.7 | 9.86 | 1.5 | 18.9 | 0.22 | C |
| 15 | 2 | 38 | 24.3 | 19-19.7 | 155-12.4 | 8.6 | 1.2 | 14 | 209 | 6.2 | 0.17 | 1.0 | 2.0 | 0.10 | C |
| 15 | 3 | 38 | 23.0 | 19-18.8 | 155-15.4 | 6.5 | 1.6 | 19 | 168 | 4.3 | 0.12 | 0.8 | 0.6 | 0.17 | C |
| 15 | 4 | 28 | 27.2 | 19- 9.0 | 155-13.6? | 41.8 | 1.6 | 16 | 204 | 18.8 | 0.34 | 1.9 | 3.2 | 0.11 | C |
| 15 | 8 | 7 | 39.9 | 19-59.4 | 155-33.9 | 8.5 | | 14 | 172 | 25.7 | 0.15 | 1.6 | 2.4 | 0.17 | C |
| 15 | 11 | 41 | 15.3 | 19-23.5 | 155-25.9 | 8.0* | | 9 | 239 | 7.7 | 0.39 | 2.3 | | 0.15 | D |
| 15 | 13 | 30 | 28.2 | 19-17.6 | 155-23.6? | 1.3 | 1.2 | 12 | 121 | 4.8 | 0.39 | 0.9 | 1.4 | 0.17 | C |
| 15 | 16 | 1 | 14.4 | 19-18.8 | 155-15.4 | 13.0 | 0.3 | 8 | 198 | 4.3 | 0.18 | 0.7 | 1.5 | 0.04 | B |
| 15 | 21 | 26 | 38.6 | 19-24.5 | 155-23.8 | 8.5 | 0.9 | 20 | 58 | 7.2 | 0.06 | 0.6 | 1.5 | 0.14 | B |
| 15 | 22 | 40 | 44.9 | 19-20.5 | 155- 6.0 | 8.0* | 0.8 | 11 | 156 | 5.5 | 0.14 | 1.4 | | 0.19 | C |
| 16 | 0 | 13 | 48.1 | 19-53.5 | 155-29.5 | 8.9 | 2.0 | 13 | 257 | 15.6 | 0.51 | 3.5 | 2.7 | 0.13 | D |
| 16 | 1 | 52 | 35.5 | 19-17.4 | 155-10.7 | 8.0* | 0.0 | 13 | 203 | 8.7 | 0.26 | 1.8 | | 0.22 | C |
| 16 | 8 | 44 | 27.1 | 19-18.7 | 155-14.6 | 9.1 | 0.5 | 10 | 181 | 5.6 | 0.13 | 1.0 | 1.8 | 0.10 | B |
| 16 | 8 | 52 | 34.8 | 19-58.8 | 155-34.8 | 1.2 | 1.2 | 14 | 164 | 25.4 | 1.43 | 1.6 | 5.2 | 0.17 | C |
| 16 | 17 | 47 | 32.3 | 19-19.7 | 155-15.6 | 15.4 | | 9 | 173 | 3.3 | 0.48 | 3.4 | 4.1 | 0.19 | C |
| 17 | 10 | 15 | 52.9 | 19-20.3 | 155-17.4 | 36.4 | 1.0 | 14 | 140 | 0.4 | 0.22 | 1.2 | 1.9 | 0.09 | B |
| 17 | 11 | 38 | 51.5 | 19-23.4 | 155-24.8 | 6.7 | 2.0 | 17 | 59 | 6.5 | 0.06 | 0.5 | 0.5 | 0.12 | B |
| 17 | 12 | 6 | 19.6 | 19-23.4 | 155- 1.3 | 4.0 | 1.0 | 8 | 150 | 7.0 | 0.12 | 1.1 | 1.3 | 0.13 | B |
| 17 | 12 | 44 | 12.9 | 19-58.7 | 155-34.7 | 2.5 | 1.8 | 9 | 164 | 25.2 | 0.22 | 2.0 | 2.1 | 0.21 | C |
| 17 | 16 | 25 | 0.4 | 20- 3.1 | 155-43.9 | 8.1 | 1.0 | 10 | 144 | 9.7 | 0.08 | 0.9 | 1.3 | 0.07 | B |
| 17 | 16 | 40 | 30.2 | 19-22.1 | 155-23.3 | 8.2 | 0.5 | 13 | 141 | 3.5 | 0.08 | 0.8 | 1.4 | 0.12 | B |
| 18 | 2 | 43 | 45.7 | 19-18.1 | 155- 8.9 | 8.0* | 0.9 | 9 | 196 | 7.4 | 0.11 | 0.9 | | 0.10 | C |
| 18 | 7 | 9 | 23.9 | 19-21.0 | 155-13.8 | 6.1 | 1.0 | 17 | 181 | 3.4 | 0.13 | 0.9 | 0.6 | 0.19 | C |
| 18 | 8 | 11 | 3.4 | 19-20.2 | 155-12.0 | 8.5 | 0.0 | 12 | 158 | 4.3 | 0.10 | 0.7 | 1.5 | 0.10 | C |
| 18 | 13 | 42 | 13.9 | 19-24.3 | 155-24.9 | 8.0* | 1.2 | 16 | 65 | 8.0 | 0.06 | 0.5 | | 0.11 | C |
| 18 | 23 | 7 | 1.7 | 19-19.4 | 155- 9.2 | 8.7 | 1.8 | 15 | 175 | 5.0 | 0.12 | 1.0 | 2.2 | 0.14 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN 19 | 0 | 23 | 20.2 | 19-18.8 | 155-12.8 | 8.0* | | 9 | 222 | 8.0 | 0.19 | 1.2 | | 0.11 | C |
| 19 | 1 | 22 | 48.6 | 19-17.1 | 155-15.0 | 13.9 | | 9 | 240 | 6.6 | 0.27 | 1.0 | 2.0 | 0.05 | C |
| 19 | 1 | 46 | 41.6 | 19-19.0 | 155-14.1 | 8.0* | | 9 | 203 | 6.0 | 0.20 | 1.3 | | 0.16 | C |
| 19 | 2 | 0 | 39.9 | 19-20.0 | 155-12.2 | 9.2 | 0.4 | 13 | 204 | 4.6 | 0.26 | 1.3 | 2.3 | 0.10 | C |
| 19 | 9 | 49 | 56.2 | 19-21.9 | 155-24.3? | 6.1 | 3.3 | 26 | 47 | 3.7 | 0.09 | 0.9 | 1.6 | 0.28 | B |
| 19 | 14 | 10 | 56.0 | 19-19.2 | 155-15.4 | 6.9 | 1.5 | 19 | 166 | 3.9 | 0.10 | 0.8 | 0.5 | 0.16 | C |
| 19 | 14 | 20 | 0.6 | 19-17.5 | 155- 9.7 | 3.7 | 2.2 | 20 | 176 | 8.5 | 0.23 | 1.2 | 1.1 | 0.25 | C |
| 19 | 15 | 37 | 10.4 | 19-20.2 | 155- 8.1 | 8.6 | 0.7 | 9 | 163 | 4.6 | 0.05 | 0.5 | 0.9 | 0.05 | B |
| 19 | 16 | 23 | 4.6 | 19-17.6 | 155- 8.9 | 8.0* | 0.8 | 11 | 213 | 8.5 | 0.07 | 0.5 | | 0.06 | C |
| 19 | 20 | 38 | 10.9 | 19-18.2 | 155-15.4 | 9.8 | 0.7 | 11 | 213 | 5.0 | 0.29 | 1.3 | 2.3 | 0.10 | C |
| 19 | 21 | 24 | 25.9 | 19-16.4 | 155-29.9 | 5.1 | 0.9 | 14 | 95 | 5.7 | 0.11 | 1.1 | 1.1 | 0.20 | B |
| 19 | 23 | 31 | 14.3 | 19-21.8 | 155-24.2? | 8.1 | 1.3 | 18 | 51 | 3.3 | 0.05 | 0.5 | 0.4 | 0.13 | B |
| 20 | 6 | 36 | 15.3 | 19-22.1 | 155-25.8 | 8.0* | 0.8 | 8 | 272 | 5.6 | 0.59 | 3.3 | | 0.09 | D |
| 20 | 7 | 57 | 11.1 | 19-19.6 | 155-10.9 | 8.0* | 0.5 | 11 | 237 | 5.0 | 0.25 | 1.5 | | 0.10 | D |
| 20 | 11 | 33 | 57.7 | 19-21.4 | 155-12.8 | 13.8 | | 8 | 161 | 5.3 | 0.19 | 1.1 | 1.9 | 0.05 | C |
| 20 | 16 | 57 | 13.9 | 19-19.6 | 155-13.4 | 8.0* | 0.5 | 13 | 197 | 5.4 | 0.09 | 0.7 | | 0.10 | C |
| 20 | 23 | 26 | 18.0 | 19-24.0 | 155-29.3 | 7.0 | 1.2 | 19 | 94 | 12.6 | 0.07 | 0.6 | 0.5 | 0.14 | B |
| 20 | 23 | 47 | 4.3 | 19-22.3 | 155- 5.1 | 0.3 | 1.9 | 18 | 130 | 5.8 | 2.83 | 1.0 | 5.5 | 0.18 | C |
| 21 | 1 | 52 | 26.3 | 19-19.7 | 155- 7.4 | 8.0* | 0.9 | 11 | 173 | 6.1 | 0.17 | 1.6 | | 0.22 | C |
| 21 | 10 | 34 | 20.2 | 19-20.2 | 155-10.9 | 9.4 | | 10 | 219 | 3.9 | 0.18 | 1.2 | 1.6 | 0.09 | C |
| 21 | 13 | 1 | 58.1 | 19-19.2 | 155-13.8 | 8.0* | | 8 | 203 | 6.5 | 0.14 | 1.0 | | 0.10 | C |
| 21 | 15 | 9 | 10.1 | 19-22.3 | 155-48.6 | 7.3 | 1.1 | 13 | 190 | 13.4 | 0.22 | 2.5 | 3.4 | 0.14 | C |
| 21 | 16 | 11 | 35.8 | 19-18.8 | 155-16.1 | 28.5 | 0.9 | 18 | 166 | 3.3 | 0.15 | 0.8 | 1.3 | 0.08 | B |
| 21 | 19 | 49 | 55.6 | 19-20.1 | 155- 1.0? | 11.1 | 0.9 | 11 | 226 | 3.3 | 0.23 | 3.3 | 3.0 | 0.27 | D |
| 21 | 20 | 50 | 18.5 | 20- 3.5 | 155-54.8? | 7.3 | 1.9 | 12 | 252 | 16.0 | 0.70 | 4.6 | 12.6 | 0.16 | D |
| 21 | 22 | 55 | 15.2 | 19-24.3 | 155-17.4 | 8.1 | 0.8 | 13 | 61 | 1.3 | 0.05 | 0.4 | 0.5 | 0.06 | A |
| 22 | 10 | 46 | 12.5 | 19-20.2 | 155- 8.9 | 7.9 | 2.1 | 14 | 146 | 3.8 | 0.14 | 1.0 | 0.8 | 0.16 | B |
| 22 | 13 | 12 | 4.3 | 19-55.1 | 155-38.6 | 13.7* | 3.1 | 25 | 128 | 24.6 | 0.10 | 0.9 | | 0.16 | C |
| 22 | 13 | 57 | 44.9 | 19-55.3 | 155-38.4 | 14.0* | 3.3 | 22 | 129 | 24.6 | 0.09 | 0.9 | | 0.15 | C |
| 22 | 15 | 44 | 45.7 | 19-21.8 | 155-19.1? | 0.6 | 1.1 | 8 | 95 | 3.7 | 0.22 | 0.6 | 3.8 | 0.10 | B |
| 22 | 22 | 26 | 37.9 | 19-10.6 | 155-36.6? | 0.0 | 2.3 | 14 | 98 | 8.0 | 7.33 | 1.4 | 13.9 | 0.29 | C |
| 22 | 22 | 35 | 6.3 | 19-49.9 | 155-31.2 | 14.4 | 2.5 | 15 | 111 | 8.6 | 0.11 | 1.1 | 3.0 | 0.15 | B |
| 22 | 23 | 14 | 31.0 | 19-26.1 | 154-54.3 | 5.7 | 2.4 | 18 | 215 | 5.3 | 0.19 | 1.4 | 0.7 | 0.16 | C |
| 23 | 3 | 36 | 6.8 | 19-19.4 | 155-15.1 | 8.7 | 0.6 | 10 | 202 | 4.2 | 0.18 | 1.1 | 1.7 | 0.09 | C |
| 23 | 3 | 38 | 45.1 | 19-18.6 | 155-13.5 | 14.4 | | 7 | 218 | 7.4 | 0.20 | 1.1 | 1.8 | 0.04 | C |
| 23 | 3 | 40 | 25.1 | 19-19.9 | 155-13.6 | 8.0* | | 8 | 169 | 6.1 | 0.32 | 2.4 | | 0.24 | C |
| 23 | 4 | 24 | 52.9 | 19-19.6 | 155-14.1 | 7.4 | 1.5 | 18 | 185 | 5.9 | 0.12 | 0.8 | 0.5 | 0.14 | C |
| 23 | 5 | 37 | 48.3 | 19-19.3 | 155-14.2 | 8.0* | 0.5 | 12 | 197 | 5.9 | 0.17 | 1.2 | | 0.17 | C |
| 23 | 9 | 28 | 54.7 | 19-19.9 | 155-11.9 | 8.1 | 1.6 | 9 | 211 | 4.6 | 0.12 | 1.0 | 0.5 | 0.07 | B |
| 23 | 14 | 32 | 44.7 | 19-18.4 | 155-13.6 | 8.0* | | 8 | 220 | 7.4 | 0.23 | 1.6 | | 0.14 | C |
| 23 | 20 | 9 | 10.3 | 19-11.7 | 155- 2.8 | 8.0* | 2.5 | 7 | 333 | 30.0 | 3.90 | 68.1 | | 0.27 | D |
| 24 | 8 | 53 | 33.5 | 20- 8.8 | 155-39.1? | 8.0* | | 13 | 290 | 43.0 | 1.12 | 7.2 | | 0.28 | D |
| 24 | 16 | 41 | 23.7 | 19-24.8 | 155-28.4 | 6.5 | 1.9 | 15 | 133 | 12.2 | 0.12 | 0.9 | 0.9 | 0.17 | B |
| 24 | 17 | 55 | 58.6 | 19-20.3 | 155-14.1 | 6.1 | | 17 | 177 | 4.7 | 0.16 | 1.0 | 0.9 | 0.19 | C |
| 24 | 20 | 58 | 53.8 | 19-49.8 | 155-22.1 | 23.2 | 2.4 | 17 | 142 | 7.1 | 0.36 | 1.8 | 3.7 | 0.10 | B |
| 25 | 11 | 9 | 19.3 | 19- 9.1 | 155-40.5 | 2.3 | 1.9 | 12 | 124 | 12.2 | 0.20 | 1.4 | 1.8 | 0.25 | C |
| 25 | 18 | 8 | 7.6 | 19-36.3 | 155- 6.5 | 8.0* | 1.7 | 13 | 183 | 12.2 | 0.17 | 1.2 | | 0.16 | C |
| 25 | 18 | 40 | 52.4 | 19-21.5 | 155-23.7 | 8.4 | 0.8 | 13 | 110 | 2.6 | 0.07 | 0.7 | 0.6 | 0.12 | B |
| 25 | 20 | 37 | 9.4 | 19-27.3 | 155-20.6 | 7.8 | 1.8 | 15 | 99 | 0.6 | 0.05 | 0.5 | 0.3 | 0.09 | A |
| 25 | 23 | 55 | 21.9 | 19-20.5 | 155-12.4 | 6.1 | 1.1 | 17 | 188 | 3.6 | 0.18 | 1.2 | 0.8 | 0.22 | C |
| 26 | 1 | 4 | 11.9 | 20- 3.3 | 155-43.0 | 7.5 | 1.2 | 14 | 154 | 10.4 | 0.34 | 3.0 | 5.2 | 0.22 | C |
| 26 | 2 | 38 | 20.7 | 19-21.1 | 155-13.2 | 6.2 | 1.8 | 21 | 141 | 2.7 | 0.10 | 0.8 | 0.6 | 0.23 | C |
| 26 | 6 | 1 | 32.5 | 19-19.8 | 155-14.0 | 6.8 | 2.0 | 21 | 167 | 5.4 | 0.10 | 0.7 | 0.5 | 0.17 | C |
| 27 | 0 | 43 | 33.1 | 19-14.2 | 155-27.6 | 30.6 | 2.4 | 22 | 117 | 4.3 | 0.19 | 1.0 | 2.0 | 0.13 | B |
| 27 | 3 | 25 | 17.4 | 19-19.1 | 155-16.0 | 8.8 | | 12 | 180 | 3.0 | 0.15 | 1.2 | 1.4 | 0.11 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN 27 | 5 | 21 | 37.7 | 19-27.2 | 155-13.7 | 29.1 | | 14 | 121 | 4.7 | 0.18 | 0.9 | 1.9 | 0.09 | B |
| 27 | 15 | 32 | 42.8 | 19-21.5 | 155- 6.8 | 3.7 | 1.9 | 15 | 141 | 5.4 | 0.11 | 1.0 | 1.0 | 0.16 | C |
| 27 | 15 | 49 | 32.2 | 19-17.8 | 155-14.8 | 9.2 | | 10 | 225 | 6.3 | 0.32 | 1.6 | 2.7 | 0.09 | C |
| 27 | 22 | 12 | 38.6 | 19-23.6 | 155-26.9 | 3.8 | 2.6 | 21 | 55 | 8.9 | 0.10 | 0.7 | 1.1 | 0.22 | C |
| 28 | 15 | 52 | 42.9 | 19-24.5 | 155-16.0 | 12.1 | 1.1 | 17 | 65 | 1.9 | 0.05 | 0.5 | 0.5 | 0.09 | A |
| 28 | 16 | 19 | 30.8 | 19-23.0 | 155-24.4 | 6.9 | 1.2 | 17 | 69 | 5.6 | 0.06 | 0.6 | 0.6 | 0.14 | B |
| 28 | 16 | 43 | 53.3 | 18-54.7 | 155- 9.5? | 8.0* | 1.9 | 14 | 279 | 45.9 | 0.78 | 5.3 | | 0.22 | D |
| 28 | 17 | 18 | 22.4 | 19-24.1 | 155-15.8 | 12.5 | 2.4 | 22 | 65 | 2.5 | 0.06 | 0.7 | 0.6 | 0.16 | B |
| 28 | 17 | 26 | 34.1 | 19-24.0 | 155-15.6 | 0.5* | 0.7 | 6 | 128 | 2.5 | 0.06 | 0.2 | | 0.06 | C |
| 28 | 18 | 33 | 18.3 | 19- 9.8 | 155-40.9 | 3.0 | 2.9 | 16 | 125 | 11.6 | 0.14 | 1.0 | 1.1 | 0.18 | C |
| 28 | 23 | 20 | 53.3 | 19-15.8 | 155-32.0 | 1.6 | 2.6 | 22 | 66 | 9.1 | 0.65 | 0.9 | 2.4 | 0.26 | C |
| 29 | 2 | 2 | 54.9 | 19-24.1 | 155-23.9 | 10.8 | 1.6 | 16 | 60 | 7.3 | 0.08 | 0.7 | 1.3 | 0.11 | B |
| 29 | 3 | 9 | 34.3 | 19-19.0 | 155-15.6 | 10.1 | | 9 | 238 | 3.7 | 0.32 | 1.5 | 2.0 | 0.07 | C |
| 29 | 19 | 9 | 12.2 | 19- 9.7 | 155-41.5 | 3.4 | 1.4 | 13 | 211 | 12.3 | 0.35 | 2.2 | 1.4 | 0.21 | C |
| 29 | 20 | 37 | 15.6 | 19-22.4 | 155-22.8 | 7.6 | 1.0 | 14 | 138 | 4.2 | 0.06 | 0.5 | 0.4 | 0.09 | B |
| 30 | 9 | 5 | 17.2 | 19-19.3 | 155-13.1 | 6.9 | 2.3 | 19 | 149 | 5.9 | 0.05 | 0.4 | 0.9 | 0.08 | B |
| 30 | 11 | 0 | 18.6 | 19-19.6 | 155- 7.7 | 8.0* | 0.6 | 12 | 175 | 5.9 | 0.14 | 1.2 | | 0.13 | C |
| 30 | 15 | 32 | 6.9 | 19-23.8 | 155-16.8 | 14.7 | 0.6 | 13 | 73 | 2.0 | 0.06 | 0.6 | 0.9 | 0.09 | A |
| 31 | 3 | 59 | 14.1 | 19-17.9 | 155-23.6 | 2.4 | 1.1 | 10 | 155 | 4.4 | 0.07 | 0.6 | 1.4 | 0.11 | C |
| 31 | 16 | 18 | 45.9 | 19-25.6 | 155-25.3 | 6.2 | 2.6 | 21 | 64 | 8.6 | 0.07 | 0.6 | 0.6 | 0.17 | B |
| 31 | 16 | 34 | 27.8 | 19-23.3 | 155-31.1 | 8.0* | 2.3 | 11 | 295 | 14.9 | 0.39 | 2.2 | | 0.18 | D |
| 31 | 21 | 52 | 22.4 | 19-20.5 | 155-12.9 | 9.4 | 0.9 | 15 | 183 | 3.6 | 0.10 | 0.6 | 1.0 | 0.09 | B |
| 31 | 22 | 7 | 10.4 | 19-19.7 | 155-14.1 | 8.0* | 1.6 | 16 | 167 | 5.9 | 0.07 | 0.6 | | 0.12 | C |
| 31 | 22 | 27 | 20.6 | 19-19.4 | 155-14.0 | 8.0* | 0.3 | 10 | 196 | 6.1 | 0.13 | 0.9 | | 0.12 | C |
| 31 | 22 | 29 | 30.3 | 19-18.8 | 155-13.7 | 8.0* | 0.9 | 11 | 212 | 7.0 | 0.17 | 1.1 | | 0.13 | C |
| 31 | 22 | 37 | 5.3 | 19-20.2 | 155-12.8 | 8.7 | 0.9 | 14 | 192 | 4.2 | 0.13 | 0.8 | 1.4 | 0.09 | C |
| FEB 1 | 0 | 28 | 45.0 | 19-59.7 | 155-21.4 | 9.8 | 2.9 | 25 | 208 | 11.7 | 0.16 | 0.9 | 1.0 | 0.10 | C |
| 1 | 0 | 35 | 39.5 | 19-11.4 | 155-27.7? | 6.4 | 2.4 | 18 | 134 | 3.5 | 0.11 | 1.0 | 0.8 | 0.20 | B |
| 1 | 4 | 3 | 59.3 | 19-22.0 | 155-23.9? | 8.3 | 1.1 | 15 | 112 | 3.5 | 0.08 | 0.6 | 0.6 | 0.13 | B |
| 1 | 4 | 31 | 11.7 | 19-20.5 | 155-11.9 | 6.1 | 1.6 | 20 | 154 | 3.8 | 0.11 | 0.9 | 0.7 | 0.22 | C |
| 1 | 10 | 42 | 38.0 | 19-19.7 | 155-11.7 | 8.5 | 0.2 | 11 | 220 | 5.4 | 0.16 | 1.0 | 1.7 | 0.08 | C |
| 1 | 16 | 28 | 14.6 | 19-20.3 | 155-10.4 | 8.2 | | 11 | 191 | 3.4 | 0.12 | 0.9 | 0.4 | 0.09 | C |
| 2 | 14 | 59 | 29.4 | 19-23.0 | 155- 9.1 | 36.8 | 2.3 | 23 | 149 | 2.2 | 0.25 | 1.3 | 2.2 | 0.13 | C |
| 2 | 17 | 12 | 16.0 | 19-17.7 | 155-15.2 | 9.4 | 0.4 | 11 | 225 | 5.9 | 0.29 | 1.5 | 2.3 | 0.10 | C |
| 2 | 17 | 35 | 10.7 | 19-18.4 | 155-16.1 | 8.5 | 0.9 | 12 | 195 | 3.8 | 0.20 | 1.4 | 1.8 | 0.16 | C |
| 2 | 18 | 23 | 33.3 | 19-28.7 | 155-46.7? | 6.2 | 2.9 | 18 | 177 | 18.8 | 0.15 | 0.9 | 1.0 | 0.12 | C |
| 2 | 23 | 5 | 36.1 | 19-21.2 | 155-14.2 | 29.7 | 0.9 | 17 | 131 | 3.7 | 0.21 | 1.2 | 2.2 | 0.12 | B |
| 3 | 5 | 5 | 57.8 | 19- 5.9 | 155-25.5 | 40.3 | 1.2 | 18 | 186 | 7.9 | 0.38 | 1.5 | 3.7 | 0.12 | C |
| 3 | 7 | 57 | 49.4 | 19-18.4 | 155-14.7 | 11.4 | | 9 | 213 | 5.7 | 0.23 | 0.9 | 1.9 | 0.06 | B |
| 3 | 14 | 55 | 4.8 | 19-21.9 | 155-24.1 | 8.2 | 1.1 | 13 | 113 | 3.5 | 0.10 | 0.8 | 0.6 | 0.14 | B |
| 3 | 19 | 36 | 6.3 | 19-24.4 | 155-26.6 | 8.0* | 0.9 | 14 | 91 | 9.7 | 0.05 | 0.5 | | 0.09 | C |
| 3 | 20 | 41 | 41.7 | 19-22.8 | 155- 5.5? | 0.0 | 2.0 | 20 | 127 | 7.1 | 3.70 | 0.8 | 7.0 | 0.17 | C |
| 4 | 9 | 26 | 15.3 | 19-19.2 | 155-15.5 | 10.9 | | 9 | 185 | 3.7 | 0.22 | 1.2 | 2.0 | 0.10 | C |
| 4 | 9 | 53 | 1.2 | 19-20.3 | 155-15.8 | 31.7 | | 22 | 135 | 2.8 | 0.11 | 0.6 | 1.0 | 0.08 | B |
| 4 | 17 | 58 | 43.6 | 19-20.4 | 155-24.9? | 6.7 | 2.1 | 21 | 83 | 2.8 | 0.07 | 0.8 | 1.4 | 0.19 | B |
| 4 | 18 | 0 | 25.1 | 19-26.1 | 155-23.4 | 8.0* | 1.0 | 12 | 182 | 5.4 | 0.15 | 1.1 | | 0.16 | C |
| 4 | 19 | 41 | 51.0 | 19-19.5 | 155-12.0 | 5.6 | 1.7 | 22 | 150 | 5.6 | 0.13 | 0.9 | 0.8 | 0.24 | C |
| 4 | 21 | 6 | 6.8 | 19-24.2 | 155-25.6? | 7.2 | 2.5 | 24 | 58 | 8.5 | 0.07 | 0.5 | 0.6 | 0.16 | B |
| 5 | 3 | 36 | 52.8 | 19-24.6 | 155-26.4? | 6.8 | 1.8 | 20 | 71 | 9.8 | 0.16 | 1.1 | 1.0 | 0.24 | C |
| 5 | 7 | 17 | 56.5 | 19-20.2 | 155-25.0 | 5.1 | 1.0 | 9 | 152 | 3.0 | 0.09 | 0.7 | 0.7 | 0.10 | B |
| 5 | 8 | 49 | 55.7 | 18-57.6 | 155-12.5 | 14.5* | 1.2 | 19 | 251 | 34.8 | 0.33 | 2.2 | | 0.19 | D |
| 5 | 21 | 20 | 27.1 | 19-26.1 | 155-23.3 | 9.1 | 1.2 | 12 | 99 | 5.3 | 0.04 | 0.5 | 0.7 | 0.06 | A |
| 5 | 21 | 25 | 27.6 | 19-20.2 | 155-10.4 | 13.4 | | 10 | 239 | 3.5 | 0.30 | 1.7 | 2.3 | 0.07 | C |
| 6 | 23 | 57 | 52.9 | 19-20.5 | 155-16.4 | 32.3 | 2.8 | 27 | 127 | 1.9 | 0.15 | 0.9 | 1.4 | 0.14 | B |
| 7 | 0 | 28 | 11.4 | 19-20.5 | 155-16.6 | 31.9 | 2.4 | 24 | 142 | 1.6 | 0.20 | 1.1 | 1.8 | 0.13 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | Mn | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB 7 | 5 | 42 | 18.1 | 19-56.7 | 155-23.4 | 31.0* | 1.4 | 13 | 292 | 19.6 | 0.53 | 4.2 | | 0.25 | D |
| 7 | 11 | 20 | 42.6 | 19-18.9 | 155-13.3 | 8.0* | | 9 | 212 | 7.4 | 0.15 | 1.0 | | 0.10 | C |
| 7 | 20 | 1 | 10.6 | 19-14.3 | 155-17.9 | 30.5 | 2.8 | 27 | 165 | 6.8 | 0.16 | 0.9 | 1.5 | 0.14 | C |
| 8 | 1 | 57 | 20.0 | 19-18.0 | 155-24.9 | 6.8 | 0.9 | 11 | 135 | 4.3 | 0.11 | 1.2 | 0.8 | 0.16 | B |
| 8 | 2 | 51 | 3.6 | 19-20.3 | 155-12.1 | 9.2 | | 13 | 199 | 4.1 | 0.30 | 1.4 | 2.4 | 0.10 | C |
| 8 | 3 | 7 | 35.9 | 19-26.5 | 155-28.8 | 7.6 | 1.4 | 17 | 79 | 11.5 | 0.13 | 0.6 | 1.0 | 0.13 | B |
| 8 | 3 | 55 | 38.0 | 19-16.4 | 155-27.4 | 6.0 | 1.4 | 15 | 98 | 1.2 | 0.10 | 1.0 | 0.8 | 0.21 | B |
| 8 | 12 | 15 | 10.9 | 19-24.8 | 155-26.8 | 8.0* | 2.3 | 16 | 118 | 10.5 | 0.14 | 1.1 | | 0.20 | C |
| 8 | 13 | 33 | 54.3 | 19-20.1 | 155-17.1 | 6.9 | | 10 | 163 | 0.5 | 0.05 | 0.4 | 0.3 | 0.06 | B |
| 8 | 14 | 6 | 46.4 | 19-22.9 | 155-26.5? | 7.2 | 2.6 | 20 | 53 | 7.5 | 0.14 | 0.7 | 1.0 | 0.15 | C |
| 8 | 16 | 52 | 25.8 | 19-15.0 | 155-25.5? | 8.0 | 1.9 | 12 | 138 | 3.4 | 0.15 | 1.5 | 1.0 | 0.24 | C |
| 8 | 17 | 6 | 20.9 | 19-12.3 | 155- 8.0 | 40.3 | 1.2 | 18 | 206 | 18.3 | 0.19 | 1.1 | 1.7 | 0.09 | C |
| 9 | 1 | 0 | 53.7 | 19-21.2 | 155- 6.1 | 8.0* | | 9 | 142 | 6.1 | 0.20 | 2.1 | | 0.25 | C |
| 9 | 2 | 51 | 49.7 | 19-59.3 | 155-47.6? | 12.2* | 0.9 | 15 | 277 | 41.9 | 0.24 | 1.7 | | 0.11 | D |
| 9 | 11 | 16 | 43.1 | 19-15.8 | 155-27.3 | 8.3 | 3.1 | 16 | 110 | 1.6 | 0.14 | 1.0 | 1.0 | 0.20 | B |
| 9 | 14 | 30 | 16.6 | 19-25.1 | 155-28.1 | 4.4 | 1.9 | 17 | 79 | 12.1 | 0.10 | 0.7 | 1.1 | 0.20 | C |
| 9 | 17 | 51 | 39.5 | 19-21.9 | 155-28.8 | 4.1 | 2.1 | 20 | 62 | 10.0 | 0.10 | 0.7 | 1.3 | 0.22 | C |
| 10 | 2 | 3 | 16.3 | 19-21.4 | 155-25.1? | 8.1 | 2.3 | 20 | 68 | 3.9 | 0.09 | 0.7 | 0.6 | 0.18 | B |
| 10 | 4 | 53 | 59.7 | 19-15.4 | 155- 2.5 | 34.6 | | 17 | 274 | 26.9 | 0.40 | 2.3 | 2.5 | 0.09 | C |
| 10 | 10 | 52 | 36.1 | 19-31.0 | 155-35.7 | 10.0 | 2.3 | 15 | 86 | 3.2 | 0.04 | 0.5 | 0.4 | 0.07 | A |
| 11 | 5 | 43 | 39.9 | 19-24.6 | 155-25.0? | 0.0 | 1.6 | 14 | 103 | 8.7 | 6.46 | 0.6 | 12.3 | 0.15 | C |
| 11 | 9 | 32 | 4.3 | 19-26.1 | 155-29.6 | 2.2 | 2.0 | 15 | 79 | 12.5 | 0.10 | 0.6 | 1.3 | 0.16 | C |
| 11 | 12 | 32 | 32.5 | 19-20.2 | 155- 7.7 | 8.6 | | 14 | 164 | 5.0 | 0.12 | 1.1 | 2.3 | 0.14 | C |
| 11 | 14 | 19 | 39.0 | 19-21.6 | 155- 8.7? | 8.1 | 1.7 | 15 | 186 | 2.2 | 0.19 | 1.5 | 0.7 | 0.16 | C |
| 11 | 19 | 7 | 14.1 | 19-24.7 | 155-28.6 | 7.3 | 1.8 | 18 | 60 | 12.5 | 0.09 | 0.7 | 0.7 | 0.12 | B |
| 11 | 19 | 47 | 37.5 | 19-10.3 | 155-11.6 | 46.0 | | 12 | 227 | 20.8 | 0.45 | 2.4 | 3.6 | 0.09 | C |
| 12 | 0 | 14 | 33.8 | 19-28.0 | 155- 6.5 | 8.0* | 2.0 | 14 | 132 | 6.4 | 0.08 | 0.9 | | 0.11 | C |
| 12 | 6 | 21 | 25.2 | 19-27.4 | 155- 6.1 | 8.0* | | 12 | 177 | 6.7 | 0.11 | 1.1 | | 0.11 | C |
| 12 | 7 | 28 | 29.9 | 19-21.8 | 155- 8.9? | 8.3 | | 13 | 217 | 1.7 | 0.18 | 1.4 | 0.5 | 0.11 | C |
| 12 | 8 | 55 | 56.6 | 19-22.6 | 155-25.2 | 8.0* | 0.6 | 14 | 138 | 5.6 | 0.08 | 0.7 | | 0.13 | C |
| 12 | 14 | 10 | 32.4 | 19-18.7 | 155-13.8? | 6.8 | 2.4 | 20 | 174 | 6.8 | 0.10 | 0.8 | 1.4 | 0.16 | C |
| 12 | 14 | 47 | 46.6 | 19-18.2 | 155-13.8 | 6.0 | 1.5 | 17 | 176 | 7.3 | 0.17 | 1.1 | 0.8 | 0.20 | C |
| 12 | 19 | 46 | 58.3 | 19-20.1 | 155-20.3 | 28.7 | 3.9 | 27 | 71 | 5.0 | 0.13 | 0.8 | 1.3 | 0.14 | B |
| 12 | 19 | 55 | 46.5 | 19-20.1 | 155-20.3 | 28.9 | 2.2 | 25 | 70 | 5.0 | 0.15 | 0.9 | 1.6 | 0.14 | B |
| 12 | 22 | 49 | 53.2 | 19-19.9 | 155-20.5 | 27.9 | 2.1 | 18 | 77 | 4.7 | 0.13 | 0.8 | 1.4 | 0.12 | B |
| 12 | 23 | 19 | 38.0 | 19-19.5 | 155-20.4 | 28.7 | 1.8 | 22 | 81 | 4.2 | 0.17 | 1.1 | 1.8 | 0.15 | B |
| 13 | 1 | 21 | 42.9 | 20- 8.3 | 155-54.0 | 37.4 | 3.1 | 27 | 277 | 12.7 | 0.43 | 2.5 | 4.0 | 0.19 | C |
| 13 | 5 | 25 | 15.2 | 19-20.1 | 155- 9.2 | 8.3 | 0.3 | 6 | 230 | 3.8 | 0.35 | 2.6 | 2.7 | 0.07 | D |
| 13 | 8 | 43 | 49.6 | 19-10.1 | 155-34.8 | 3.5 | 1.4 | 14 | 132 | 9.6 | 0.14 | 1.0 | 1.1 | 0.20 | B |
| 13 | 11 | 46 | 10.1 | 19-18.4 | 155-16.0? | 9.4 | 1.0 | 12 | 201 | 4.0 | 0.24 | 1.5 | 2.4 | 0.15 | C |
| 13 | 11 | 48 | 6.0 | 19-19.0 | 155-16.6 | 8.7 | 1.1 | 12 | 175 | 2.4 | 0.13 | 1.0 | 1.2 | 0.11 | C |
| 13 | 19 | 27 | 13.5 | 19-24.0 | 155-15.6? | 2.5 | 1.0 | 8 | 130 | 2.5 | 0.24 | 1.0 | 2.0 | 0.20 | C |
| 13 | 19 | 29 | 24.8 | 19-20.4 | 155-13.6 | 5.7 | 1.2 | 20 | 150 | 4.1 | 0.11 | 0.8 | 0.7 | 0.21 | C |
| 13 | 23 | 58 | 12.5 | 19-21.6 | 155-23.8? | 7.8 | 0.9 | 16 | 48 | 2.8 | 0.06 | 0.7 | 0.6 | 0.15 | B |
| 14 | 2 | 15 | 1.7 | 19-19.7 | 155-15.6 | 7.8 | 1.8 | 20 | 162 | 3.2 | 0.06 | 0.6 | 0.3 | 0.12 | C |
| 14 | 13 | 52 | 14.1 | 19-18.5 | 155-13.7 | 8.0* | 1.7 | 10 | 217 | 7.1 | 0.15 | 1.0 | | 0.09 | C |
| 14 | 15 | 9 | 41.1 | 19-25.5 | 155- 0.4 | 44.2 | 1.6 | 18 | 236 | 10.5 | 0.35 | 1.6 | 2.6 | 0.08 | C |
| 14 | 15 | 22 | 38.8 | 19-24.5 | 155-24.9 | 8.0* | 1.9 | 21 | 65 | 8.4 | 0.08 | 0.7 | | 0.16 | C |
| 14 | 18 | 53 | 42.3 | 19-19.4 | 155-15.6 | 7.1 | 1.8 | 22 | 142 | 3.3 | 0.09 | 0.7 | 0.5 | 0.15 | C |
| 14 | 23 | 3 | 28.4 | 19-18.5 | 155-13.7 | 8.0* | | 7 | 219 | 7.2 | 0.25 | 1.7 | | 0.13 | C |
| 15 | 3 | 3 | 57.9 | 19-19.6 | 155-11.9? | 8.1 | 0.9 | 13 | 216 | 5.3 | 0.14 | 1.0 | 0.4 | 0.11 | C |
| 15 | 4 | 29 | 12.1 | 19-21.3 | 155-24.2? | 8.4 | 0.8 | 15 | 64 | 2.6 | 0.08 | 0.8 | 0.7 | 0.17 | B |
| 15 | 12 | 39 | 53.0 | 19-19.8 | 155- 9.5 | 8.7 | 1.8 | 13 | 169 | 7.4 | 0.08 | 0.6 | 1.5 | 0.08 | B |
| 15 | 12 | 53 | 41.6 | 19-19.8 | 155- 9.5 | 4.4 | 1.7 | 18 | 169 | 7.3 | 0.14 | 1.0 | 0.9 | 0.22 | C |
| 15 | 20 | 57 | 49.2 | 19-17.0 | 155- 3.6 | 36.1 | 1.0 | 14 | 270 | 14.4 | 0.44 | 2.5 | 2.9 | 0.08 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | 16 | 13 | 11 6.9 | 19-20.6 | 155-11.2 | 8.0 | 0.2 | 9 | 208 | 3.5 | 0.11 | 0.9 | 0.4 | 0.07 | B |
| | 16 | 16 | 33 52.3 | 19-22.1 | 155-12.7 | 5.4 | 0.2 | 11 | 144 | 0.7 | 0.16 | 0.8 | 1.5 | 0.13 | B |
| | 16 | 19 | 58 33.4 | 19-19.6 | 155-13.9 | 6.4 | 1.5 | 18 | 186 | 5.7 | 0.14 | 0.9 | 0.7 | 0.18 | C |
| | 16 | 21 | 8 59.5 | 19-22.6 | 155-16.6 | 24.5 | 1.4 | 21 | 89 | 1.3 | 0.11 | 0.7 | 1.1 | 0.11 | B |
| | 16 | 21 | 19 33.2 | 19-24.3 | 155-28.9 | 7.0 | 1.8 | 12 | 84 | 12.3 | 0.07 | 0.6 | 0.6 | 0.12 | B |
| | 16 | 22 | 51 52.4 | 19-25.0 | 155-27.9 | 4.6 | 2.0 | 22 | 54 | 11.9 | 0.09 | 0.7 | 0.9 | 0.21 | C |
| | 16 | 23 | 50 36.4 | 19-19.0 | 155-13.6 | 8.0* | 0.4 | 8 | 208 | 7.0 | 0.16 | 1.2 | | 0.12 | C |
| | 16 | 23 | 58 59.0 | 19-14.6 | 155-21.6 | 29.6 | 2.9 | 27 | 155 | 8.0 | 0.15 | 0.9 | 1.5 | 0.14 | C |
| | 17 | 5 | 0 1.0 | 19-20.0 | 155-10.9 | 2.3 | 2.5 | 23 | 146 | 9.9 | 0.15 | 0.9 | 1.2 | 0.25 | C |
| | 17 | 8 | 7 22.6 | 19-20.6 | 155-10.8 | 5.4 | 2.1 | 21 | 139 | 3.1 | 0.10 | 0.8 | 0.7 | 0.20 | B |
| | 17 | 8 | 8 46.5 | 19-20.0 | 155-11.0 | 8.6 | 0.6 | 13 | 165 | 4.4 | 0.10 | 0.8 | 1.5 | 0.09 | C |
| | 17 | 10 | 40 48.2 | 19-28.6 | 155-47.9 | 8.0 | 2.2 | 17 | 152 | 20.9 | 0.10 | 0.9 | 1.5 | 0.13 | C |
| | 17 | 12 | 20 37.7 | 19-26.2 | 155-27.1 | 8.0 | 1.3 | 21 | 69 | 9.4 | 0.12 | 0.7 | 0.9 | 0.16 | B |
| | 17 | 15 | 42 17.5 | 19-24.8 | 155-25.3 | 6.4 | 2.5 | 24 | 43 | 9.1 | 0.07 | 0.6 | 0.6 | 0.17 | B |
| | 18 | 12 | 13 57.9 | 19-22.1 | 155-27.8 | 4.1 | 1.5 | 22 | 65 | 8.7 | 0.09 | 0.7 | 1.0 | 0.22 | C |
| | 18 | 13 | 26 54.4 | 19-19.1 | 155-16.1 | 9.2 | 0.2 | 8 | 182 | 3.0 | 0.34 | 2.1 | 3.3 | 0.14 | C |
| | 19 | 5 | 11 5.4 | 19-19.3 | 155-13.6 | 8.0 | 3.0 | 23 | 148 | 6.1 | 0.07 | 0.5 | 0.3 | 0.11 | B |
| | 19 | 6 | 26 18.9 | 19-37.1 | 155-48.4 | 12.7 | 3.2 | 19 | 146 | 8.4 | 0.06 | 0.6 | 0.7 | 0.09 | B |
| | 19 | 20 | 34 12.1 | 19-19.5 | 155-13.8 | 6.2 | 1.2 | 19 | 163 | 6.3 | 0.11 | 0.8 | 0.7 | 0.19 | C |
| | 19 | 22 | 35 1.9 | 19-50.9 | 155- 2.7? | 59.1 | 1.5 | 15 | 251 | 31.5 | 0.72 | 3.1 | 5.6 | 0.11 | D |
| | 21 | 3 | 51 8.8 | 19-19.3 | 155-10.5 | 5.0 | 1.0 | 13 | 200 | 5.2 | 0.28 | 1.7 | 1.3 | 0.23 | C |
| | 21 | 7 | 0 58.0 | 19-30.7 | 155-57.1 | 9.0 | | 18 | 228 | 22.8 | 0.32 | 2.4 | 2.2 | 0.21 | D |
| | 21 | 21 | 45 51.2 | 19-24.8 | 155-24.1 | 6.5 | 1.6 | 20 | 61 | 7.9 | 0.07 | 0.6 | 0.6 | 0.16 | B |
| | 22 | 15 | 28 20.3 | 19-15.3 | 155- 2.7 | 32.6 | | 21 | 249 | 17.7 | 0.26 | 1.6 | 1.6 | 0.08 | C |
| | 22 | 22 | 16 9.9 | 19-31.7 | 156-31.0 | 8.0* | 2.9 | 14 | 285 | 73.3 | 0.77 | 4.9 | | 0.14 | D |
| | 22 | 22 | 46 55.1 | 19-16.1 | 155- 4.3 | 31.7 | 1.9 | 18 | 252 | 23.5 | 0.19 | 1.4 | 1.3 | 0.10 | C |
| | 23 | 1 | 27 52.7 | 19-33.7 | 155-54.8 | 4.8 | 2.1 | 14 | 217 | 16.1 | 0.32 | 2.7 | 2.4 | 0.17 | C |
| | 23 | 2 | 32 32.7 | 19-20.7 | 155-25.3 | 4.3 | 2.4 | 22 | 78 | 3.6 | 0.08 | 0.7 | 0.8 | 0.24 | B |
| | 23 | 3 | 1 29.8 | 19-19.9 | 155-12.6 | 6.9 | 2.2 | 22 | 144 | 4.6 | 0.10 | 0.8 | 0.6 | 0.21 | C |
| | 23 | 7 | 30 19.1 | 19-19.5 | 155-12.8 | 3.6 | 1.7 | 20 | 188 | 5.4 | 0.20 | 1.1 | 1.2 | 0.24 | C |
| | 23 | 7 | 47 51.0 | 19-59.2 | 155-43.7? | 44.1 | 4.1 | 26 | 142 | 16.6 | 0.32 | 1.3 | 3.1 | 0.10 | B |
| | 23 | 11 | 36 52.9 | 20- 1.7 | 155-22.4? | 11.1 | 2.8 | 10 | 226 | 15.6 | 0.42 | 3.0 | 2.0 | 0.13 | D |
| | 23 | 18 | 44 41.8 | 19-48.7 | 155-32.4 | 16.2 | 2.5 | 14 | 103 | 9.2 | 0.21 | 1.7 | 4.8 | 0.20 | B |
| | 24 | 5 | 32 42.8 | 19-31.4 | 155-51.9 | 4.8 | 2.7 | 18 | 187 | 18.4 | 0.22 | 1.3 | 1.7 | 0.14 | C |
| | 24 | 8 | 15 28.7 | 19-26.1 | 155-16.1 | 29.7 | 2.1 | 18 | 80 | 1.4 | 0.23 | 1.3 | 2.3 | 0.15 | B |
| | 24 | 12 | 44 45.9 | 19-21.0 | 155-23.6? | 3.5 | | 11 | 97 | 1.5 | 0.16 | 1.3 | 1.4 | 0.23 | B |
| | 24 | 12 | 45 10.9 | 19-21.3 | 155-24.7 | 7.1 | 1.9 | 18 | 64 | 3.2 | 0.06 | 0.6 | 0.6 | 0.16 | B |
| | 24 | 18 | 3 10.8 | 19-19.1 | 155-11.3 | 2.4 | 2.1 | 23 | 155 | 6.1 | 0.18 | 1.0 | 1.4 | 0.27 | C |
| | 25 | 13 | 44 7.4 | 19-59.6 | 155-23.2 | 29.7 | 3.5 | 21 | 204 | 12.3 | 0.23 | 1.3 | 2.6 | 0.12 | C |
| | 25 | 16 | 40 10.7 | 19-19.2 | 155-13.7 | 8.0* | 1.6 | 11 | 204 | 6.3 | 0.12 | 0.8 | | 0.11 | C |
| | 26 | 0 | 42 36.2 | 19-23.5 | 155-24.4 | 6.5 | 2.3 | 19 | 99 | 6.3 | 0.08 | 0.6 | 0.6 | 0.14 | B |
| | 26 | 2 | 8 47.7 | 19-21.6 | 155-12.2 | 5.9 | 1.2 | 13 | 160 | 1.7 | 0.13 | 0.8 | 0.9 | 0.14 | C |
| | 26 | 5 | 33 17.6 | 19-22.9 | 155- 4.3? | 3.7 | 2.1 | 10 | 153 | 5.9 | 0.20 | 1.5 | 1.5 | 0.20 | C |
| | 26 | 8 | 50 15.2 | 19-19.4 | 155-15.3 | 6.4 | 1.1 | 11 | 184 | 4.0 | 0.16 | 1.0 | 0.9 | 0.15 | C |
| | 26 | 9 | 17 49.7 | 19-20.2 | 155-20.3 | 28.1 | 2.5 | 28 | 69 | 5.1 | 0.13 | 0.8 | 1.4 | 0.15 | B |
| | 26 | 12 | 11 19.1 | 19-14.7 | 155-26.0 | 6.2 | 2.7 | 24 | 121 | 3.3 | 0.09 | 0.8 | 0.6 | 0.22 | C |
| | 27 | 6 | 31 7.4 | 19-22.1 | 155-25.4 | 2.6 | 1.4 | 15 | 104 | 5.1 | 0.14 | 1.0 | 1.9 | 0.25 | C |
| | 27 | 6 | 31 40.3 | 19-17.7 | 155-13.1 | 6.4 | 1.9 | 22 | 181 | 8.7 | 0.15 | 0.9 | 0.6 | 0.16 | C |
| | 27 | 11 | 15 18.5 | 19-43.4 | 155- 2.1 | 48.5 | 2.1 | 15 | 210 | 24.4 | 0.37 | 1.6 | 3.4 | 0.11 | C |
| | 27 | 13 | 15 58.8 | 19-18.3 | 155-13.2 | 8.0* | 1.6 | 8 | 226 | 8.1 | 0.17 | 1.2 | | 0.09 | D |
| | 27 | 13 | 29 30.7 | 19-22.8 | 155- 2.4 | 4.5 | 2.3 | 10 | 134 | 5.5 | 0.15 | 1.2 | 1.4 | 0.21 | C |
| | 28 | 0 | 16 14.2 | 19-19.8 | 155-12.1 | 8.0* | 1.3 | 14 | 211 | 5.0 | 0.12 | 0.8 | | 0.10 | C |
| | 28 | 3 | 10 28.2 | 19-24.6 | 155-24.3? | 7.6 | 1.2 | 18 | 59 | 8.1 | 0.06 | 0.6 | 0.7 | 0.13 | B |
| | 28 | 3 | 57 56.0 | 19-53.6 | 155- 1.8 | 49.8 | 2.6 | 22 | 234 | 32.7 | 0.42 | 2.0 | 3.7 | 0.13 | C |
| | 28 | 7 | 10 20.3 | 19-24.8 | 155-24.7 | 8.0* | 1.3 | 18 | 63 | 8.7 | 0.07 | 0.6 | | 0.15 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | 28 | 9 | 14 51.0 | 19-23.4 | 155-28.8? | 7.3 | 1.3 | 13 | 88 | 11.3 | 0.08 | 0.7 | 0.7 | 0.14 | B |
| | 28 | 15 | 30 22.5 | 20- 5.8 | 156- 1.6 | 3.2 | 2.7 | 17 | 272 | 26.1 | 0.53 | 6.0 | 4.9 | 0.21 | D |
| | 28 | 15 | 48 55.0 | 19-24.6 | 155-23.6 | 5.1 | 1.2 | 13 | 110 | 6.9 | 0.12 | 0.9 | 1.2 | 0.19 | B |
| | 28 | 21 | 7 28.4 | 19-15.9 | 155-11.9 | 8.0* | 1.5 | 10 | 270 | 11.9 | 0.53 | 2.9 | | 0.15 | D |
| MAR | 1 | 4 | 0 36.6 | 19-19.1 | 155-13.3 | 8.0* | 1.3 | 9 | 209 | 7.4 | 0.19 | 1.3 | | 0.13 | C |
| | 1 | 18 | 41 12.2 | 19-17.9 | 155-14.8 | 8.0* | 1.7 | 13 | 188 | 6.2 | 0.11 | 0.8 | | 0.11 | C |
| | 2 | 0 | 19 31.1 | 19-21.2 | 155-14.4 | 8.5 | 1.3 | 10 | 229 | 3.4 | 0.34 | 1.9 | 2.1 | 0.10 | C |
| | 2 | 0 | 48 16.6 | 19-19.7 | 155-13.2 | 6.0 | 1.7 | 16 | 198 | 6.9 | 0.20 | 1.2 | 0.8 | 0.21 | C |
| | 2 | 2 | 44 21.2 | 19-20.5 | 155-24.5? | 8.6 | 1.7 | 12 | 91 | 2.3 | 0.07 | 0.8 | 0.7 | 0.15 | B |
| | 2 | 8 | 30 56.0 | 19-18.1 | 155-12.7 | 8.0* | | 10 | 234 | 8.9 | 0.26 | 1.7 | | 0.15 | D |
| | 2 | 13 | 24 53.4 | 19-23.4 | 155-24.3 | 8.0* | | 8 | 204 | 6.2 | 0.24 | 1.7 | | 0.15 | C |
| | 3 | 0 | 1 48.1 | 19-17.4 | 155-11.1? | 0.1 | 1.5 | 15 | 236 | 8.9 | 7.67 | 1.9 | 14.1 | 0.20 | D |
| | 3 | 7 | 25 19.1 | 19-23.1 | 155- 5.9 | 2.6 | 1.8 | 13 | 122 | 7.2 | 0.12 | 0.8 | 1.1 | 0.15 | B |
| | 4 | 5 | 42 29.8 | 19-22.2 | 155-26.6 | 8.0* | 1.7 | 14 | 75 | 6.9 | 0.06 | 0.6 | | 0.11 | B |
| | 4 | 6 | 26 22.3 | 19-19.3 | 155-10.7 | 8.0* | 1.2 | 11 | 243 | 5.4 | 0.16 | 1.0 | | 0.08 | D |
| | 4 | 11 | 29 32.9 | 19-19.2 | 155- 9.1 | 8.0* | 1.7 | 12 | 178 | 5.4 | 0.12 | 1.0 | | 0.13 | C |
| | 4 | 17 | 59 19.2 | 19-56.7 | 155-31.1 | 25.4 | 2.3 | 16 | 163 | 19.3 | 0.22 | 1.2 | 3.2 | 0.13 | C |
| | 4 | 19 | 26 28.8 | 19-39.3 | 156- 1.9? | 0.0 | 2.3 | 14 | 271 | 20.5 | 0.58 | 5.2 | 1.8 | 0.25 | D |
| | 4 | 20 | 9 9.9 | 19-42.4 | 156-10.2? | 8.2 | 2.3 | 14 | 290 | 57.9 | 0.66 | 11.4 | 25.0 | 0.33 | D |
| | 5 | 6 | 2 17.6 | 19-19.9 | 155-10.5 | 8.5 | 1.5 | 9 | 224 | 4.1 | 0.13 | 1.0 | 1.2 | 0.06 | B |
| | 5 | 23 | 11 49.2 | 19-24.1 | 155-25.2 | 4.5 | 1.7 | 15 | 62 | 7.9 | 0.11 | 0.9 | 1.3 | 0.20 | B |
| | 6 | 1 | 45 20.4 | 19-31.9 | 155-37.3? | 7.2 | 2.9 | 21 | 85 | 5.4 | 0.14 | 1.2 | 1.5 | 0.23 | B |
| | 6 | 8 | 15 34.1 | 19-20.9 | 155-48.3 | 6.7 | 2.8 | 13 | 180 | 11.5 | 0.18 | 2.0 | 2.7 | 0.12 | C |
| | 6 | 17 | 29 27.0 | 19-23.3 | 155-28.7 | 4.2 | 2.1 | 22 | 88 | 11.1 | 0.10 | 0.7 | 1.0 | 0.22 | C |
| | 6 | 18 | 49 45.9 | 19-25.1 | 155-26.6? | 7.3 | 3.9 | 27 | 45 | 10.5 | 0.07 | 0.6 | 1.2 | 0.18 | C |
| | 6 | 20 | 4 45.1 | 19-20.7 | 155-14.0 | 10.7 | 1.1 | 9 | 169 | 4.7 | 0.10 | 0.6 | 1.0 | 0.06 | B |
| | 7 | 4 | 36 20.0 | 19-19.8 | 155-14.8? | 7.7 | 1.4 | 10 | 179 | 4.6 | 0.24 | 1.9 | 1.2 | 0.21 | C |
| | 7 | 6 | 40 16.7 | 19-18.8 | 155-13.4 | 6.3 | 2.1 | 19 | 152 | 7.3 | 0.12 | 0.8 | 0.7 | 0.20 | C |
| | 7 | 6 | 51 45.6 | 19-18.4 | 155-13.2? | 7.6 | 3.3 | 24 | 152 | 7.5 | 0.06 | 0.5 | 0.9 | 0.12 | C |
| | 7 | 9 | 18 24.8 | 19-20.3 | 155-12.0 | 10.1 | | 12 | 212 | 4.2 | 0.12 | 0.7 | 1.0 | 0.08 | B |
| | 7 | 17 | 32 43.7 | 19-18.9 | 155-13.4? | 8.0 | 3.3 | 22 | 152 | 6.7 | 0.08 | 0.5 | 0.4 | 0.10 | C |
| | 7 | 17 | 36 43.7 | 19-20.3 | 155-14.8 | 6.0 | | 15 | 192 | 4.4 | 0.23 | 1.6 | 1.0 | 0.22 | C |
| | 7 | 18 | 24 26.0 | 19-21.6 | 155- 4.9? | 2.0 | | 9 | 126 | 4.6 | 0.15 | 1.2 | 1.6 | 0.17 | B |
| | 7 | 20 | 0 24.5 | 19-20.7 | 155-15.2 | 4.6 | | 14 | 176 | 3.3 | 0.17 | 1.2 | 0.9 | 0.21 | C |
| | 7 | 20 | 14 11.7 | 20- 2.1 | 156-15.4 | 8.0* | | 13 | 305 | 88.3 | 1.20 | 7.3 | | 0.11 | D |
| | 8 | 1 | 21 49.8 | 19-21.4 | 155-15.6 | 5.8 | | 12 | 202 | 2.0 | 0.17 | 0.9 | 0.9 | 0.12 | C |
| | 8 | 2 | 9 58.6 | 19-19.1 | 155-14.1 | 7.0 | 2.2 | 20 | 171 | 6.1 | 0.13 | 0.9 | 0.6 | 0.15 | C |
| | 8 | 4 | 45 13.7 | 19-21.6 | 155- 7.0 | 3.8 | 1.9 | 19 | 137 | 5.0 | 0.11 | 0.8 | 0.9 | 0.16 | C |
| | 8 | 9 | 30 20.3 | 19-24.6 | 155-25.4 | 0.3* | 1.4 | 12 | 226 | 9.0 | 0.28 | 1.3 | | 0.15 | D |
| | 8 | 9 | 53 35.8 | 19-18.4 | 155- 8.8 | 8.0* | | 9 | 192 | 10.6 | 0.20 | 1.7 | | 0.18 | C |
| | 8 | 17 | 54 0.2 | 19-20.8 | 155- 7.3? | 1.7 | 3.1 | 22 | 138 | 5.0 | 0.13 | 1.1 | 1.1 | 0.20 | C |
| | 8 | 23 | 2 10.1 | 19-20.4 | 155-17.0? | 7.5 | | 9 | 184 | 0.9 | 0.35 | 1.1 | 2.5 | 0.08 | C |
| | 8 | 23 | 6 49.5 | 19-19.3 | 155-17.2 | 6.5 | 1.3 | 11 | 176 | 1.6 | 0.07 | 0.5 | 0.4 | 0.07 | B |
| | 9 | 18 | 28 42.3 | 19-19.1 | 155-27.1? | 7.5 | 2.1 | 15 | 73 | 5.0 | 0.07 | 0.7 | 1.5 | 0.15 | B |
| | 10 | 1 | 9 31.6 | 19-20.6 | 155-19.7 | 1.7* | | 9 | 104 | 4.1 | 0.03 | 0.2 | | 0.05 | B |
| | 10 | 6 | 44 52.9 | 19-25.5 | 155-25.0 | 8.0* | 1.9 | 14 | 153 | 8.4 | 0.07 | 0.6 | | 0.09 | C |
| | 10 | 10 | 8 35.8 | 19-19.5 | 155- 8.2 | 3.6 | | 16 | 176 | 5.6 | 0.22 | 1.5 | 2.3 | 0.27 | C |
| | 10 | 12 | 10 41.8 | 19-21.9 | 155-15.7 | 27.9 | 2.2 | 20 | 116 | 1.0 | 0.11 | 0.7 | 1.1 | 0.10 | A |
| | 10 | 23 | 37 58.6 | 19-20.6 | 155-12.6 | 5.9 | | 14 | 184 | 5.5 | 0.23 | 1.3 | 1.2 | 0.22 | C |
| | 11 | 1 | 19 42.2 | 19-20.5 | 155-16.0 | 26.9 | | 14 | 131 | 2.5 | 0.15 | 0.9 | 1.6 | 0.08 | B |
| | 11 | 6 | 36 28.7 | 19- 9.8 | 155-37.5 | 5.3 | 2.9 | 20 | 102 | 9.5 | 0.14 | 1.0 | 1.0 | 0.22 | C |
| | 11 | 9 | 13 44.5 | 19-22.6 | 155- 5.4 | 2.6 | 2.1 | 7 | 126 | 6.6 | 0.06 | 0.5 | 1.1 | 0.05 | B |
| | 11 | 13 | 49 23.2 | 19-22.7 | 155-41.0 | 8.0 | 2.3 | 9 | 242 | 15.0 | 0.44 | 2.7 | 3.6 | 0.13 | D |
| | 11 | 14 | 25 38.4 | 19-20.9 | 155-13.8 | 8.6 | 1.4 | 9 | 166 | 4.7 | 0.20 | 1.2 | 2.4 | 0.12 | C |
| | 11 | 14 | 59 11.8 | 19-21.0 | 155-14.3 | 8.4 | 1.2 | 9 | 157 | 3.8 | 0.15 | 1.0 | 1.9 | 0.11 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR 12 | 9 | 44 | 3.4 | 19-20.1 | 155-21.2 | 28.8 | 2.1 | 18 | 80 | 3.7 | 0.17 | 1.0 | 1.9 | 0.12 | B |
| 12 | 9 | 44 | 38.1 | 19-20.3 | 155-20.8 | 27.7 | 2.4 | 22 | 72 | 4.5 | 0.15 | 0.9 | 1.6 | 0.13 | B |
| 12 | 18 | 35 | 36.3 | 19-19.3 | 155-13.4 | 8.0* | 1.5 | 10 | 205 | 7.1 | 0.20 | 1.5 | | 0.18 | C |
| 13 | 0 | 50 | 51.5 | 19-19.4 | 155-14.5 | 9.2 | 1.3 | 10 | 191 | 5.2 | 0.22 | 1.2 | 2.4 | 0.12 | C |
| 13 | 4 | 33 | 10.3 | 19-24.8 | 155-17.7 | 11.5 | 2.0 | 19 | 56 | 1.1 | 0.06 | 0.6 | 0.6 | 0.11 | B |
| 13 | 6 | 15 | 6.3 | 19-20.2 | 155-11.2 | 8.6 | 0.7 | 10 | 216 | 4.2 | 0.15 | 1.0 | 1.9 | 0.09 | B |
| 13 | 15 | 15 | 3.6 | 19-44.8 | 155-24.1 | 21.9 | 2.5 | 22 | 74 | 7.0 | 0.11 | 0.6 | 1.9 | 0.11 | B |
| 13 | 17 | 6 | 55.1 | 20- 9.0 | 155-40.3? | 40.1 | 3.0 | 23 | 230 | 11.5 | 0.52 | 2.4 | 4.3 | 0.11 | C |
| 13 | 22 | 16 | 27.6 | 19-20.2 | 155- 7.9 | 8.7 | 0.2 | 8 | 164 | 4.9 | 0.14 | 1.1 | 2.4 | 0.10 | C |
| 14 | 0 | 35 | 31.4 | 19-16.0 | 155-22.7 | 6.4 | 0.7 | 14 | 139 | 7.0 | 0.09 | 0.8 | 0.6 | 0.17 | B |
| 14 | 3 | 2 | 28.2 | 19-23.3 | 155-24.6 | 7.2 | | 10 | 194 | 6.2 | 0.13 | 0.9 | 0.7 | 0.10 | B |
| 14 | 19 | 20 | 1.7 | 19-22.6 | 155-47.7 | 10.5 | 3.0 | 17 | 139 | 14.6 | 0.11 | 1.0 | 1.2 | 0.11 | B |
| 15 | 2 | 31 | 10.2 | 19-22.8 | 155-23.2 | 5.1 | 1.1 | 12 | 169 | 4.8 | 0.13 | 1.0 | 1.0 | 0.16 | C |
| 15 | 7 | 56 | 13.8 | 19-19.3 | 155-11.7 | 2.2 | 2.3 | 23 | 152 | 6.2 | 0.17 | 1.0 | 1.5 | 0.26 | C |
| 15 | 13 | 17 | 15.2 | 19-24.4 | 155-25.1? | 5.6 | 1.3 | 15 | 104 | 8.4 | 0.12 | 0.8 | 2.4 | 0.19 | B |
| 15 | 14 | 51 | 44.3 | 19-25.7 | 155-37.0? | 46.5 | 2.3 | 13 | 223 | 25.1 | 0.57 | 6.0 | 4.7 | 0.28 | D |
| 15 | 20 | 34 | 10.4 | 19-21.3 | 155-25.1? | 6.8 | 1.7 | 12 | 74 | 3.8 | 0.10 | 1.0 | 2.2 | 0.19 | B |
| 15 | 22 | 16 | 9.8 | 19- 4.2 | 156- 7.6? | 40.3 | 2.2 | 20 | 301 | 34.6 | 0.23 | 1.5 | 2.3 | 0.09 | C |
| 16 | 9 | 40 | 9.3 | 19-37.0 | 155-30.0 | 7.4 | 2.1 | 12 | 92 | 17.7 | 0.22 | 1.0 | 1.5 | 0.16 | C |
| 17 | 1 | 44 | 36.4 | 19-22.9 | 155-22.5 | 8.0* | 0.7 | 14 | 100 | 5.1 | 0.06 | 0.5 | | 0.10 | B |
| 17 | 5 | 37 | 22.2 | 19-20.7 | 155-13.3 | 8.0* | 0.0 | 11 | 175 | 5.6 | 0.15 | 1.0 | | 0.11 | C |
| 17 | 14 | 35 | 12.6 | 19- 3.3 | 155-13.0 | 20.0 | 2.0 | 19 | 224 | 28.5 | 0.30 | 2.1 | 9.1 | 0.17 | C |
| 17 | 21 | 59 | 46.4 | 19-17.6 | 155-30.3 | 4.2 | 1.0 | 14 | 99 | 6.7 | 0.12 | 1.0 | 1.1 | 0.19 | B |
| 18 | 10 | 2 | 13.7 | 19-22.2 | 155-23.8 | 10.0 | | 7 | 198 | 3.8 | 0.36 | 1.5 | 3.2 | 0.07 | C |
| 18 | 19 | 6 | 18.6 | 19-18.8 | 155-12.9 | 5.9 | 1.6 | 17 | 176 | 8.2 | 0.25 | 1.4 | 1.1 | 0.21 | C |
| 18 | 19 | 10 | 22.0 | 19-19.6 | 155-13.8 | 8.0* | 0.5 | 10 | 209 | 6.4 | 0.25 | 1.7 | | 0.17 | C |
| 18 | 21 | 36 | 45.3 | 19-20.1 | 155-17.2 | 7.8 | | 7 | 184 | 0.3 | 0.09 | 0.6 | 0.7 | 0.03 | B |
| 18 | 23 | 44 | 40.4 | 19-17.6 | 155-25.5 | 8.0 | 2.3 | 21 | 109 | 3.0 | 0.09 | 0.8 | 0.6 | 0.17 | B |
| 19 | 0 | 48 | 60.0 | 19-19.5 | 155- 6.8 | 8.0* | | 11 | 178 | 6.9 | 0.18 | 1.6 | | 0.19 | C |
| 19 | 4 | 1 | 21.3 | 19-19.1 | 155-13.4 | 8.0* | -0.0 | 9 | 208 | 7.2 | 0.19 | 1.4 | | 0.14 | C |
| 19 | 7 | 50 | 45.3 | 19-21.7 | 155-15.6 | 8.9 | 1.3 | 10 | 143 | 1.4 | 0.17 | 0.8 | 1.5 | 0.07 | B |
| 19 | 20 | 12 | 26.1 | 19-21.9 | 155-23.1 | 6.8 | 0.6 | 13 | 92 | 3.3 | 0.06 | 0.5 | 0.5 | 0.10 | A |
| 19 | 22 | 14 | 50.6 | 19-23.9 | 155-49.3 | 9.6 | 1.7 | 14 | 202 | 15.5 | 0.16 | 1.4 | 1.5 | 0.13 | C |
| 20 | 3 | 23 | 8.4 | 19-17.4 | 155-22.0 | 2.4 | 0.8 | 13 | 134 | 5.6 | 0.11 | 0.7 | 1.4 | 0.14 | B |
| 21 | 7 | 30 | 23.7 | 19-19.4 | 155-14.5 | 32.2 | 2.5 | 22 | 143 | 5.3 | 0.14 | 0.9 | 1.4 | 0.11 | B |
| 21 | 8 | 11 | 46.3 | 19-23.4 | 155-23.9? | 7.7 | 2.8 | 21 | 55 | 6.0 | 0.05 | 0.6 | 1.2 | 0.14 | B |
| 21 | 8 | 14 | 56.0 | 19-23.5 | 155-23.2 | 8.0* | 1.2 | 13 | 178 | 6.1 | 0.13 | 0.9 | | 0.13 | C |
| 22 | 13 | 45 | 56.5 | 19-15.4 | 155-22.6 | 4.7 | 1.2 | 14 | 164 | 8.4 | 0.11 | 1.1 | 1.2 | 0.17 | C |
| 22 | 23 | 8 | 50.7 | 19-20.3 | 155-11.3 | 10.0 | 1.0 | 12 | 213 | 4.2 | 0.25 | 1.2 | 2.1 | 0.08 | C |
| 23 | 1 | 38 | 44.7 | 19-21.7 | 155-23.4 | 6.2 | 0.9 | 12 | 173 | 2.8 | 0.10 | 0.7 | 0.6 | 0.11 | C |
| 23 | 4 | 25 | 6.1 | 19-21.7 | 155-24.0 | 7.2 | 0.7 | 13 | 107 | 3.0 | 0.11 | 0.9 | 0.8 | 0.16 | B |
| 23 | 14 | 39 | 8.1 | 19-23.9 | 155-24.3 | 7.1 | 3.0 | 21 | 56 | 7.1 | 0.07 | 0.6 | 0.6 | 0.17 | B |
| 23 | 19 | 24 | 33.5 | 19-20.0 | 155-13.5 | 5.9 | | 14 | 187 | 6.0 | 0.20 | 1.4 | 1.0 | 0.23 | C |
| 24 | 1 | 22 | 49.7 | 19-16.8 | 155-23.6 | 3.8 | | 14 | 133 | 6.3 | 0.09 | 0.8 | 1.2 | 0.16 | B |
| 24 | 20 | 52 | 3.4 | 18-53.5 | 155- 9.8 | 8.0* | | 18 | 272 | 43.4 | 0.88 | 5.7 | | 0.18 | D |
| 24 | 23 | 41 | 51.8 | 19-20.4 | 155-29.0 | 47.0 | | 12 | 102 | 10.0 | 0.34 | 1.2 | 3.4 | 0.08 | B |
| 25 | 5 | 53 | 33.9 | 19-18.0 | 155-15.1 | 6.8 | 1.7 | 18 | 184 | 5.5 | 0.16 | 1.0 | 0.7 | 0.19 | C |
| 25 | 19 | 22 | 55.3 | 19-24.7 | 155-28.4 | 4.4 | 0.9 | 11 | 170 | 12.1 | 0.12 | 0.8 | 1.4 | 0.13 | C |
| 26 | 6 | 3 | 52.0 | 20- 2.9 | 155-28.3 | 13.7* | 1.8 | 16 | 211 | 22.1 | 0.24 | 1.9 | | 0.18 | C |
| 26 | 9 | 56 | 45.6 | 19-43.4 | 155-46.2 | 20.3 | 3.5 | 21 | 118 | 8.3 | 0.14 | 0.8 | 2.2 | 0.11 | B |
| 26 | 11 | 31 | 25.4 | 19-20.6 | 155- 6.2 | 8.0* | 1.9 | 8 | 164 | 5.8 | 0.16 | 1.6 | | 0.15 | C |
| 27 | 0 | 46 | 11.6 | 19-19.0 | 155-13.4 | 8.0* | 1.7 | 7 | 212 | 7.4 | 0.18 | 1.3 | | 0.09 | C |
| 27 | 0 | 55 | 34.4 | 19-59.1 | 155-41.2 | 10.8 | 2.1 | 19 | 138 | 18.7 | 0.10 | 1.0 | 1.7 | 0.10 | B |
| 27 | 4 | 34 | 23.9 | 19-20.0 | 155-14.1 | 8.0* | 1.2 | 17 | 169 | 5.5 | 0.08 | 0.6 | | 0.11 | C |
| 27 | 7 | 14 | 25.1 | 19-20.4 | 155-13.3 | 7.2 | 0.5 | 13 | 204 | 4.0 | 0.21 | 1.5 | 0.8 | 0.19 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | 27 | 16 | 59 42.3 | 19-23.9 | 155-24.3 | 2.7 | 1.5 | 12 | 201 | 7.0 | 0.14 | 0.7 | 1.2 | 0.09 | C |
| | 27 | 17 | 28 22.4 | 19-21.9 | 155-25.6 | 4.7 | 1.3 | 17 | 83 | 5.2 | 0.09 | 0.7 | 0.9 | 0.20 | B |
| | 28 | 0 | 23 1.4 | 19-18.4 | 155-14.9 | 12.2 | 1.5 | 10 | 211 | 5.4 | 0.22 | 0.8 | 1.8 | 0.07 | B |
| | 28 | 11 | 31 50.9 | 19-18.9 | 155-10.1 | 3.6 | | 12 | 181 | 5.9 | 0.24 | 1.6 | 2.4 | 0.24 | C |
| | 28 | 18 | 48 8.2 | 19-21.7 | 155-25.1 | 8.7 | | 10 | 107 | 4.2 | 0.07 | 0.6 | 1.6 | 0.08 | A |
| | 28 | 19 | 55 7.2 | 19-19.2 | 155- 8.7? | 0.8 | 2.0 | 16 | 178 | 5.7 | 1.42 | 1.2 | 5.2 | 0.22 | C |
| | 28 | 23 | 1 18.7 | 19-22.? | 155-26.2 | 6.1 | 2.0 | 15 | 73 | 6.2 | 0.10 | 0.8 | 1.0 | 0.17 | B |
| | 29 | 7 | 0 43.9 | 19-21.9 | 155-25.1 | 8.1 | 1.9 | 18 | 56 | 4.4 | 0.05 | 0.6 | 1.3 | 0.11 | B |
| | 29 | 7 | 23 16.8 | 19- 5.6 | 155- 8.0 | 15.6* | | 13 | 248 | 29.4 | 0.46 | 3.3 | | 0.17 | D |
| | 29 | 16 | 23 40.3 | 19-20.5 | 155- 8.9 | 29.8 | 2.2 | 22 | 174 | 3.4 | 0.16 | 1.0 | 1.3 | 0.11 | C |
| | 29 | 18 | 23 1.9 | 19-24.1 | 155-15.7 | 4.4 | 1.2 | 9 | 122 | 2.5 | 0.38 | 1.1 | 2.8 | 0.12 | B |
| | 29 | 20 | 36 35.2 | 19-20.0 | 155-10.8 | 9.4 | 1.1 | 14 | 164 | 4.2 | 0.08 | 0.6 | 1.1 | 0.09 | B |
| | 29 | 21 | 21 27.1 | 19-20.7 | 155-19.9 | 3.0 | 1.6 | 10 | 105 | 4.5 | 0.20 | 0.5 | 4.0 | 0.09 | B |
| | 30 | 9 | 32 41.2 | 19-46.2 | 155-25.9 | 32.1 | 3.0 | 19 | 92 | 3.0 | 0.19 | 0.9 | 2.4 | 0.12 | B |
| | 30 | 18 | 56 59.4 | 19-25.4 | 155-28.1? | 8.0 | 1.9 | 19 | 78 | 11.6 | 0.06 | 0.5 | 0.5 | 0.13 | B |
| | 30 | 22 | 21 9.4 | 19-18.4 | 155-13.3 | 8.0* | | 11 | 224 | 7.9 | 0.22 | 1.5 | | 0.13 | C |
| | 31 | 3 | 19 46.4 | 19-23.6 | 155-25.3 | 6.6 | 1.7 | 15 | 56 | 7.3 | 0.08 | 0.7 | 0.9 | 0.15 | B |
| | 31 | 4 | 38 10.2 | 19-21.8 | 155-24.0 | 7.7 | 1.6 | 11 | 62 | 3.3 | 0.06 | 0.7 | 0.7 | 0.10 | A |
| | 31 | 6 | 28 59.6 | 19-18.3 | 155-21.4 | 8.0* | 1.7 | 9 | 219 | 4.7 | 0.29 | 1.9 | | 0.16 | C |
| | 31 | 7 | 16 39.4 | 19-20.1 | 155-14.5? | 4.3 | 1.9 | 18 | 165 | 5.0 | 0.15 | 1.0 | 1.0 | 0.21 | C |

Table 3. Felt earthquakes

| Date | Time H | M | S | Magnitude | Felt report |
|---|---|---|---|---|---|
| Jan 2 | 20 | 20 | 10.8 | 3.6 | Honaunau, Pahala |
| 13 | 11 | 30 | 00.1 | 3.7 | South Kona |
| 14 | 06 | 01 | 49.9 | 3.1 | Kamuela |
| 14 | 06 | 40 | 17.2 | 3.2 | Kapapala, Kamuela |
| 14 | 19 | 19 | 31.2 | 1.8 | Kamuela |
| 21 | 20 | 50 | 18.5 | 1.9 | Kamuela |
| 22 | 13 | 12 | 04.3 | 3.1 | Honokaa, Kamuela, Pohakuloa |
| 22 | 13 | 57 | 44.9 | 3.3 | Kamuela, Honokaa, Pohakuloa |
| 28 | 23 | 20 | 53.3 | 2.6 | Kapapala |
| Feb 4 | 17 | 58 | 43.6 | 2.1 | Kapapala |
| 9 | 11 | 16 | 43.1 | 3.1 | Kapapala |
| 12 | 19 | 46 | 58.3 | 3.9 | Volcano, Pahala, South Kona, Honomu, Kurtistown, Hilo |
| 23 | 07 | 47 | 51.0 | 4.1 | Kamuela |
| 26 | 12 | 11 | 19.1 | 2.7 | Kapapala |
| Mar 6 | 18 | 49 | 45.9 | 3.9 | Volcano, Kapapala, South Kona |
| 7 | 06 | 51 | 45.6 | 3.3 | Volcano, Keaau, Hilo |
| 13 | 17 | 06 | 55.1 | 3.0 | Kamuela |
| 21 | 08 | 11 | 46.3 | 2.8 | Kapapala |

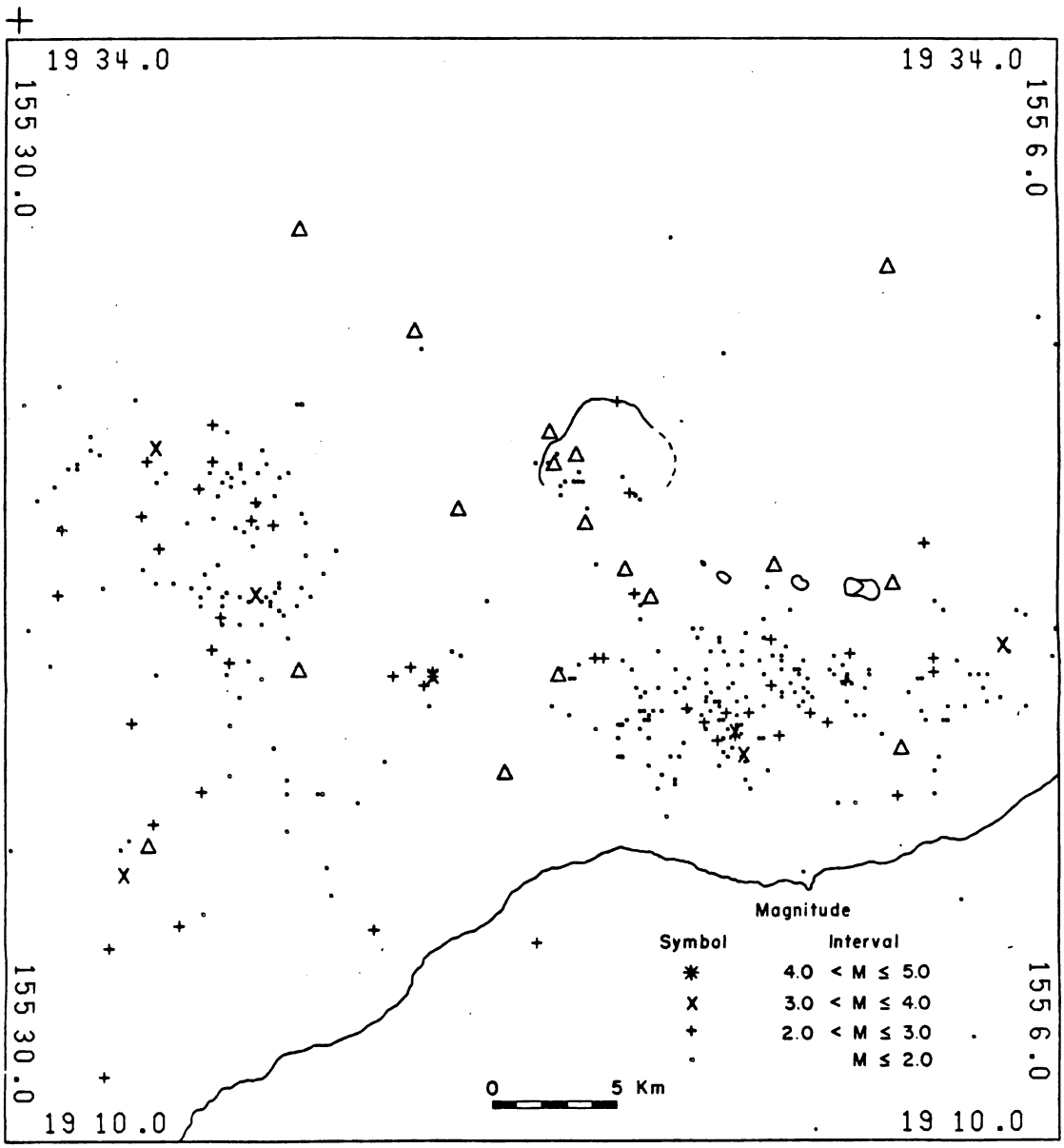


Figure 1.--Plot of epicenters in the Kilauea region. Triangles are seismometer locations. Kilauea Caldera and the major pit craters on the east rift are shown in outline. The Pacific Ocean lies in the lower right portion of the illustration.

Table 4. Seismometer stations in Hawaii operated by the U. S. Geological Survey.

| STATION NAME | CODE | LAT-N | LONG-W | ELEV | TYPE | CAL | VCO | RADIO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| AHUA | AHU | 19 22.40 | 155 15.90 | 1070 | 3 | 6.0 | 2380 | | |
| CONE PEAK | CPK | 19 23.70 | 155 19.70 | 1038 | 3 | 1.34 | | | |
| DESERT | DES | 19 20.20 | 155 23.30 | 815 | 3 | 1.34 | | | |
| ESCAPE ROAD | ESR | 19 24.68 | 155 14.33 | 1177 | 3 | | | | |
| HALE POHAKU | HPU | 19 46.85 | 155 27.50 | 3396 | 1 | 5.6 | 1360 | RF6 | |
| HILINA PALI | HLP | 19 17.96 | 155 18.63 | 707 | 1 | 6.0 | 2040 | | |
| HUALALAI | HUA | 19 41.25 | 155 50.32 | 2189 | 1 | 5.2 | 1700 | RF4 | |
| KAAPUNA | KAA | 19 15.98 | 155 52.28 | 524 | 1 | 5.5 | 1020 | RF12 | |
| KAHUKU | KHU | 19 14.90 | 155 37.10 | 1939 | 1 | 5.7 | 1700 | RF3 | |
| KAPAPALA RANCH | KPR | 19 16.40 | 155 26.70 | 610 | 1 | 6.5 | 1700 | RF1 | |
| KEANAKOLU | KKU | 19 53.39 | 155 20.58 | 1863 | 1 | 4.8 | 2380 | RF7 | |
| KIPUKA NENE | KPN | 19 20.10 | 155 17.40 | 924 | 3 | 1.34 | | | |
| KOHALA | KOH | 20 7.69 | 155 46.77 | 1166 | 1 | 1.5 | 2380 | RF2 | |
| MAUNA LOA | MLO | 19 29.80 | 155 23.30 | 2010 | 1 | 6.5 | 1360 | | |
| MAUNA LOA X | MLX | 19 27.60 | 155 20.70 | 1475 | 3 | 1.34 | | | |
| MAKAOPUHI | MPR | 19 22.07 | 155 9.85 | 881 | 1 | 5.7 | 2720 | RF5 | |
| MOKUAWEOWEO | MOK | 19 29.28 | 155 35.98 | 4104 | 1 | 6.5 | 2040 | RF3 | |
| MOUNTAIN VIEW | MTV | 19 30.25 | 155 3.75 | 409 | 1 | 6.2 | 680 | RF8 | |
| NORTH PIT | NPT | 19 24.90 | 155 17.00 | 1115 | 3 | 1.34 | | | |
| OUTLET | OTL | 19 23.38 | 155 16.94 | 1038 | 3 | 5.0 | | | |
| PUU HULUHULU | PHH | 19 22.45 | 155 12.66 | 988 | 3 | | | | |
| PUU HONUAULA | PHO | 19 28.90 | 154 53.40 | 215 | 1 | 6.5 | 2720 | RF1 | |
| PUU PILI | PPL | 19 9.50 | 155 27.87 | 35 | 1 | 4.4 | 1360 | RF11 | |
| SOUTH POINT | SPT | 18 58.91 | 155 39.92 | 244 | 1 | 7.8 | 2040 | RF7 | |
| WAHAULA | WHA | 19 19.90 | 155 2.92 | 29 | 1 | 6.0 | 680 | RF9 | |
| WALDRON LEDGE | WLG | 19 25.49 | 155 15.69 | 1067 | 3 | | | | |
| OPTICAL SEISMOGRAPHS | | | | | | | | | |
| HALEAKALA Z | HAL | 20 46.00 | 156 15.00 | 2090 | 3 | 0.71 | | | |
| HALEAKALA EW | HAE | 20 46.00 | 156 15.00 | 2090 | 0 | 1.0 | | | Wood-Anderson |
| HALEAKALA NS | HAN | 20 46.00 | 156 15.00 | 2090 | 0 | 1.0 | | | Wood-Anderson |
| HILO Z | HIL | 19 43.20 | 155 5.30 | 20 | 3 | 1.0 | | | |
| HILO EW | HIE | 19 43.20 | 155 5.30 | 20 | 0 | 1.0 | | | Wood-Anderson |
| HILO NS | HIN | 19 43.20 | 155 5.30 | 20 | 0 | 1.0 | | | Wood-Anderson |
| KIPAPA | KIP | 21 25.40 | 158 .90 | 76 | 3 | 0.56 | | | |
| UWEKAHUNA Z | UWE | 19 25.40 | 155 17.60 | 1240 | 3 | 0.7 | | | |
| UWEKAHUNA Z | USZ | 19 25.40 | 155 17.60 | 1240 | 4 | 1.0 | | | |
| UWEKAHUNA EW | USE | 19 25.40 | 155 17.60 | 1240 | 4 | 1.0 | | | |
| UWEKAHUNA PEZ | | 19 25.40 | 155 17.60 | 1240 | | | | | 15-90 Press Ewing |
| UWEKAHUNA PEE | | 19 25.40 | 155 17.60 | 1240 | | | | | |
| UWEKAHUNA PEN | | 19 25.40 | 155 17.60 | 1240 | | | | | |

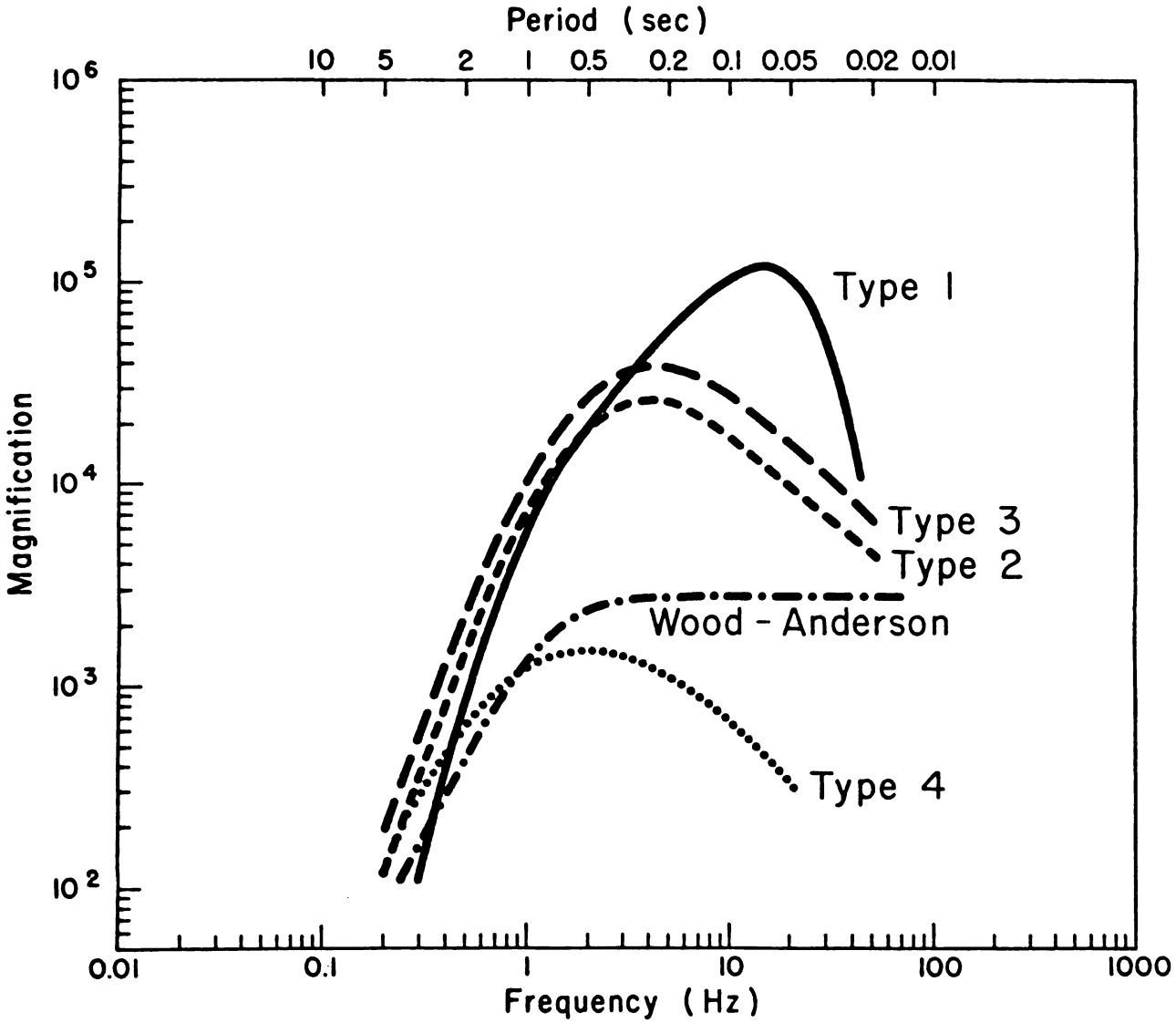


Figure 2.--System response curves for the Wood-Anderson torsion seismograph and for the four different types of seismometer-amplifier (or galvanometer) combinations in use by the Hawaiian Volcano Observatory.

Table 5.--Seismic Instrumentation Types

Type 1. Consists of:

a) EV-17 - Electrotech EV-17 1.0 sec. period moving magnet vertical component seismometer or horizontal component adjusted for an output of 0.5 volts/cm/sec and 0.8 critically damped.

b) Preamp/VCO - Develco Model 6202 voltage controlled oscillator or a USGS/NCER Model JE202. 3 db points for bandpass filter at 0.1 Hz and 30 Hz. Signals are transmitted on audio FM carrier over cable or FM radio link to HVO.

Type 2. Consists of:

a) EV-17 - Electrotech EV-17 1.0 sec. period moving magnet vertical or horizontal component seismometer.

b) 3.5 Hz galvanometer with appropriate shunt resistances for critical damping. System is poorly calibrated.

Type 3. Consists of:

a) EV-17 Electrotech EV-17 (as described above), Hall-Sears HS-10 0.5 sec. period moving coil seismometer or Observatory-built 0.8 sec. period moving coil seismometer with HVO-built solid state seismic preamplifier (voltage gain, 200X), direct signal transmission over cable to HVO and HVO-built solid state amplifier and galvanometer driver, or Observatory-built electromagnetic seismometer with 2 Hz galvanometer. Peak magnification approximately 40,000 at 4 Hz.

Type 4. Consists of:

Sprengnether short period vertical and horizontal seismometers (E-W) with 1.5 sec. galvanometers, coupling factor = 0.25, 2X critically damped. Peak magnification approximately 1500X at 2 Hz.

Experimental type amplifier systems are not given type numbers.

## TILTING OF THE GROUND AROUND KILAUEA CALDERA

Tilting of the ground around the summit of Kilauea is monitored daily by a short-base water-tube tiltmeter in Uwekahuna Vault, and at irregular intervals it is measured on a regional scale by means of a network of field tilt-bases and a portable water-tube tiltmeter. The attitude of the ground surface at each tilt-base is reported in terms of north-south and east-west tilt coordinates. Both coordinates at each station were arbitrarily set equal to 500 when measurements at that station were begun. Increasing tilt coordinates correspond to northward and eastward tilting of the earth's surface; that is, to a relative subsidence toward the north and east. A one-unit change in coordinate corresponds to a tilting of 1 microradian (1 mm per km) in the direction indicated.

Location of and essential data on each tiltmeter station are listed in Table 8.

Table 6.--Tilt Coordinates at Uwekahuna,

January, February, and March 1973

| Date | N-S | E-W | Date | N-S | E-W |
|---|---|---|---|---|---|
| Jan. 7 | 721 | 320 | March 4 | 719 | 321 |
| 14 | 721 | 318 | 11 | 719 | 321 |
| 21 | 720 | 319 | 18 | 719 | 320 |
| 28 | 720 | 319 | 25 | 719 | 319 |
| Feb. 4 | 720 | 318 | | | |
| 11 | 720 | 319 | | | |
| 18 | 719 | 321 | | | |
| 25 | 719 | 321 | | | |

Table 7.--Tilt coordinates and changes at bases around Kilauea caldera. (See fig. 3)

| Tilt base | Date (1973) | Tilt N-S | Coordinates E-W | Rate ($10^{-6}$ rad/mo) and direction of tilting since last reading | Date of last reading (1972) |
|---|---|---|---|---|---|
| Uwekahuna (U on fig. 3) | 21 Mar | 745.5 | 352.4 | 0.38 S54.0°W | 5 Dec |
| Tree Molds (TM) | 21 Mar | 580.6 | 482.5 | 0.22 N66.8°W | 5 Dec |
| Sand Spit (SS) | 22 Mar | 1012.2 | 726.6 | 2.89 S 2.8°E | 6 Dec |
| Mehana (M) | 21 Mar | 615.2 | 600.9 | 0.80 N16.5°W | 5 Dec |
| Keamoku (Kea) | 22 Mar | 773.9 | 233.4 | 1.79 S54.6°E | 5 Dec |
| Ahua Kamokukolau (Kam) | 22 Mar | 383.1 | 530.9 | 2.39 N33.9°W | 6 Dec |
| Kipuka Nene (KN) | Not occupied this epoch | | | | |
| Hilina Pali (HP) | Not occupied this epoch | | | | |
| Kapapala Ranch (Kap) | Not occupied this epoch | | | | |

Table 8.------Geological Survey water-tube tiltmeter stations in Hawaii

| Station | Symbol | Location | | Frequency of reading | Base length M | Description |
|---|---|---|---|---|---|---|
| | | Lat. N. Deg. Min. | Long. W. Deg. Min. | | | |
| Tree Molds | TM | 19 - 26.3 | 155 - 17.3 | Quarterly | 50.79 | NS. and EW. |
| Sand Spit | SS | 19 - 24.1 | 155 - 16.8 | ---do--- | 25.40 | Equilateral triangle. |
| Keamoku | Kea | 19 - 25.1 | 155 - 19.0 | ---do--- | 47.55 | do |
| Ahua Kamokukolau | Kam | 19 - 22.7 | 155 - 16.6 | ---do--- | 50.79 | do |
| Kipuka Nene | KN | 19 - 19.4 | 155 - 16.7 | ---do--- | 47.73 | do |
| Hilina Pali | HP | 19 - 18.2 | 155 - 18.6 | ---do--- | 47.73 | do |
| Kapapala Ranch | Kap | 19 - 20.5 | 155 - 23.8 | ---do--- | 50.79 | do |
| Mehana | M | 19 - 26.2 | 155 - 14.3 | ---do--- | 25.00 | do |
| Uwekahuna | U | 19 - 25.5 | 155 - 17.4 | ---do--- | 50.79 | do |
| Uwekahuna Vault | | 19 - 25.4 | 155 - 17.6 | Daily | 3.48 | NS. and EW. |

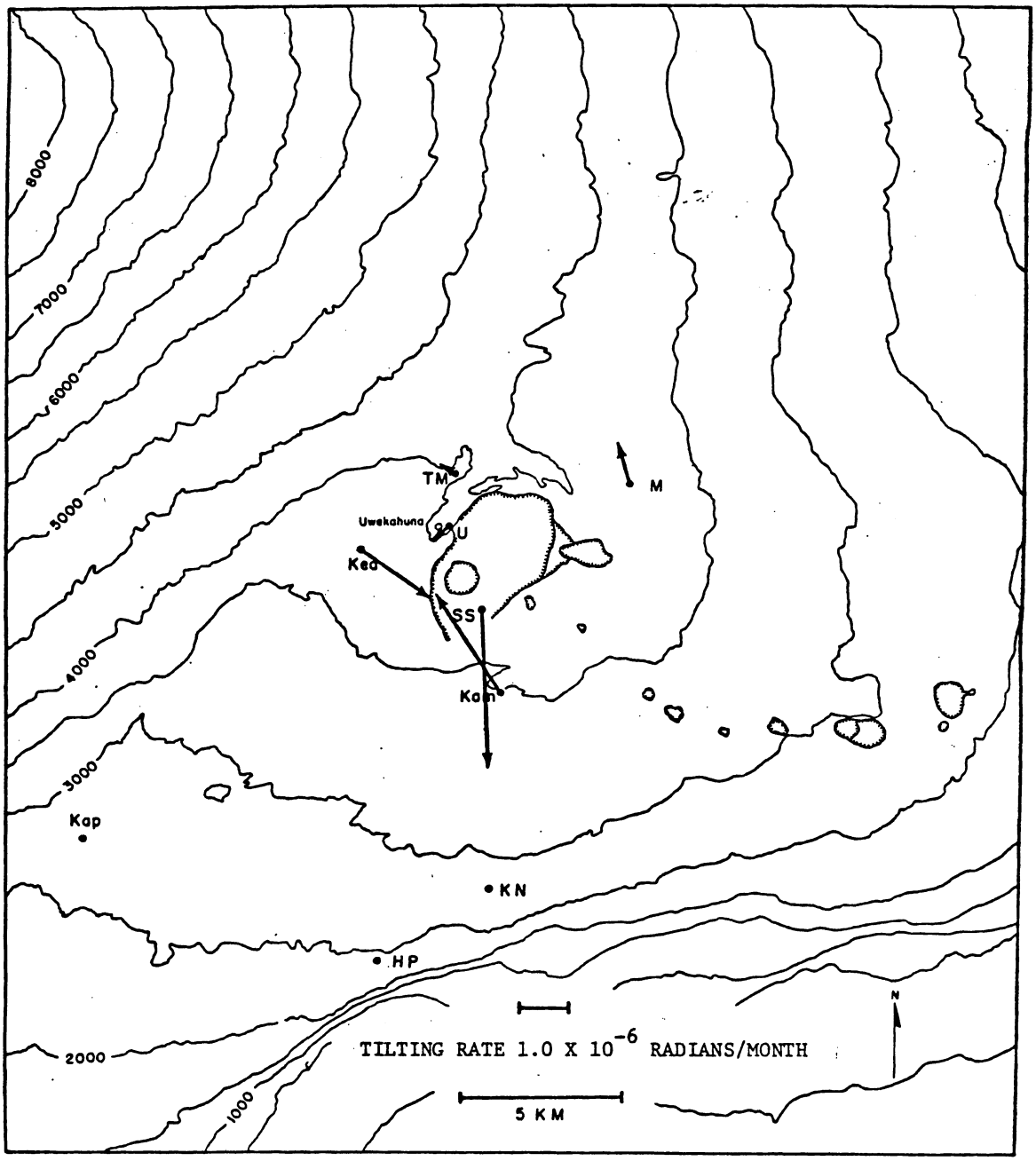


**Figure 3.**--Tilting of the ground around Kilauea Caldera. The vector depicting tilting at a given tilt base points in the direction of maximum relative subsidence, and its length is proportional to the rate of tilting during the measurement interval. Closed circles represent field tilt bases; open circles, short-base watertube tiltmeters. See Table 7 for explanation of abbreviations.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# Hawaiian Volcano Observatory

## Summary 70

April, May, and June 1973

By
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and Patricia Stevenson*

Chronological Summary
By
Robert I. Tilling

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Illustrations



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## Summary of eruptive events

Eruptive activity during the first month of the quarter basically resembled that of the previous several months. Lava-lake activity continued at Mauna Ulu, with levels fluctuating generally around 30 ± 5 m from the rim; measurements showed that lava levels at Mauna Ulu and Alae tended to vary sympathetically. The Alae vent continued to feed pahoehoe flows, via the south-trending tube system, entering the ocean west of Apua Point. Between March 23 and April 10, the subaerial part of the lava delta grew by an additional 0.6 x $10^5$ $m^2$ (15 acres). The state of inflation at Kilauea's summit varied little during this interval of relatively steady activity.

The 6.2-magnitude earthquake of April 26 (see seismic summary) apparently disrupted the lava-tube system, and flow into the ocean ceased within a few days. Presumably because of quake-caused blockages downstream in the tube system, lava gushed out many existing tube openings upstream and broke out at several new sites near Alae, increasing the size of its shield. The activity at Mauna Ulu at first did not show any changes, but during a few hours in the early morning of May 5 lava drained completely from the Mauna Ulu lava lake and the Alae vent. A rubble-choked, 200 m-deep crater was exposed at Mauna Ulu. Shortly afterward, lava erupted from a fissure in the west pit of Pauahi Crater, marking its first activity in historic times; by early afternoon another outbreak began within and near Hiiaka Crater, 800 m uprift, as the activity at Pauahi waned. Late in Hiiaka's activity a small eruptive fissure opened in the eastern end of the Koae fault zone about 1 km west of Hiiaka. Most activity stopped by early evening, but weak lava bubbling in Pauahi persisted until early the next morning. The 7-hour Pauahi-Hiiaka activity erupted a total of about 1.2 x $10^6$ $m^3$ of lava, of which 2.4 x $10^5$ $m^3$ drained back into vent fissures; the eruption was accompanied by a deflation of approximately 25 microradians at Kilauea's summit region.

Lava moved quietly back into Mauna Ulu within two days and began to refill the emptied crater, and by early June moderate activity resumed. A small pool of lava also reappeared at the Alae vent. On June 9, however, the level of the lake at Mauna Ulu dropped abruptly nearly 100 m, and the lava pool at Alae vent drained and was covered by rubble from collapsing walls. Within several weeks the lava level at Mauna Ulu regained its early-June stands (~20 m below the rim), but Alae never recovered and was inactive for the rest of 1973. The resumed lava-lake activity at Mauna Ulu was mild, and a small "island" of semi-solidified lava was present throughout most of June; field observations and time-lapse photography indicated that the island shifted in size, position, and level as the lava-lake surface fluctuated. Although the lake rose slowly with time, the area of actively circulating lava decreased as the activity became more sluggish toward the end of June. By the end of the quarter, an 8-microradian deflation associated with the abrupt June lowering of Mauna Ulu lava lake had been fully "recovered", but visible eruptive activity was markedly declining.

A deep drill hole south of Halemaumau, funded by NSF and headed by George V. Keller, Colorado School of Mines, was begun on April 6 and continued with brief interruptions throughout the quarter.

## SEISMIC SUMMARY

Events recorded by the U. S. Geological Survey seismograph network in Hawaii fall into two categories:

1) Local earthquakes and tremor originating in the region of the Hawaiian Islands (usually within 100 km of at least one seismograph),

2) Distant earthquakes originating more than 3,000 km from Hawaii.

As an index of seismic activity at Hawaiian volcanoes, daily counts of earthquakes and minutes of tremor recorded by seismographs in Hawaii are listed in Table 1. The earthquakes are separated in groups on the basis of region of origin as determined by the analysis of records obtained daily at the Observatory (UWE, MLO, MLX, AHU, DES, NPT, WPT, MPH, OTL).

Computer locations of well-recorded events are listed in Table 2. The location of each seismograph station is listed in Table 4, along with a description of the equipment at each station.

Table 1.--Number of earthquakes and minutes of tremor recorded on seismographs around Kilauea

Tremor is separated into three categories: Deep, Intermediate, and Shallow, on the basis of relative amplitude on seismographs in the summit region. Unless otherwise stated, tremor is presumed to be associated with movement of magma within the central complex of Kilauea Volcano.

Earthquake categories are: Kilauea Summit 30 km, earthquakes from a source about 30 km beneath the summit region; Kilauea Summit long-period, earthquakes characterized by low-frequency waves that originate roughly 5 km beneath the summit region; Kilauea Summit Shallow, earthquakes a few km deep in the caldera region; SW Rift and Kaoiki, earthquakes along the southwest rift zone of Kilauea and the adjacent portions of the Kaoiki fault system; Upper East Rift, earthquakes from the upper east rift zone and the adjacent fault systems of Kilauea's south flank; Koae, earthquakes along the northeast-trending Koae fault system south of the caldera; Lower East Rift, earthquakes from the lower east rift zone of Kilauea; Offshore Puu Pili, offshore earthquakes mostly southeast of Puu Pili (PPL) station.

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | | | | | | |
| | Deep | Intermediate | Shallow | 30KM | Long Period | Shallow | SW rift and Kaoiki | Upper east rift | Koae | Lower east rift | Offshore Puu Pili | Remarks |
| Apr 1 | | | Low level tremor on the upper east rift throughout the month | | 46 | 104 | 25 | 24 | 3 | | 1 | |
| 2 | 12m | | | 1 | 29 | 90 | 19 | 22 | 10 | 1 | | |
| 3 | | 5m | | | 59 | 110 | 30 | 16 | 3 | | | |
| 4 | 10m | | | 2 | 53 | 90 | 29 | 17 | 6 | | | |
| 5 | 21m | | | 1 | 81 | 121 | 27 | 23 | 2 | 1 | | |
| 6 | 4m | 6m | | 1 | 24 | 118 | 27 | 30 | 8 | | | |
| 7 | | | | | 13 | 93 | 23 | 23 | 15 | 1 | | |
| 8 | | | | | 22 | 112 | 23 | 11 | 7 | | 1 | |
| 9 | 34m | | | 1 | 3 | 73 | 13 | 17 | 5 | 1 | 1 | |
| 10 | | | | 2 | 8 | 103 | 16 | 11 | 6 | 1 | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | | | | 24 | 117 | 25 | 9 | 7 | | | |
| 12 | | $4^m$ | | 15 | 91 | 20 | 13 | 7 | 1 | 2 | |
| 13 | | | | 51 | 102 | 20 | 11 | 9 | | | |
| 14 | | | 1 | 49 | 100 | 25 | 63 | 5 | 1 | | |
| 15 | | | | 67 | 104 | 28 | 20 | 11 | 1 | 1 | |
| 16 | | $8^m$ | 1 | 62 | 71 | 18 | 11 | 7 | | | |
| 17 | | | | 49 | 94 | 20 | 11 | 6 | 4 | | |
| 18 | | | | 57 | 88 | 15 | 21 | 6 | 1 | 1 | |
| 19 | | | 1 | 25 | 80 | 16 | 16 | 8 | | 1 | |
| 20 | | | 1 | 69 | 155? | 15 | 12 | 3 | 2 | 2 | |
| 21 | | | 1 | 132 | 138 | 23 | 19 | 7 | 1 | | |
| 22 | | | | 44? | 64? | 24? | 8? | ? | ? | | |
| 23 | | | | 20 | 79 | 12 | 12 | 3 | 2 | 2 | |
| 24 | | $3^m$ | | 25 | 132 | 18 | 14 | 5 | 4 | 3 | |
| 25 | $21^m$ | | | 19 | 182 | 6 | 13 | 3 | 4 | | |
| 26 | | | | ? | ? | ? | ? | ? | ? | | Honomu earthquake, M = 6.2; aftershocks |
| 27 | | $15^m$ | 9 | 64 | 405 | 46 | 16 | 19 | 1 | | |
| 28 | $3^m$ | | 2 | 41 | 574 | 11 | 20 | 8 | | | |
| 29 | | | 2 | 69 | 64 | 23 | 19 | 9 | 2 | | Increase of shallow earthquakes NE flank of Mauna Kea |
| 30 | | $180^m$? | 1 | 71 | 463 | 24 | 42 | 6 | | | |

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | | | | | | |
| | Deep | Inter-mediate | Shallow | 30KM | Long Period | Shallow | SW rift and Kaoiki | Upper east rift | Koae | Lower east rift | Offshore Puu Pili | Remarks |
| May 1 | | | Strong tremor May 5-11, and low to moderate tremor remainder of the month - upper east rift area | | 19 | 106 | 29 | 20 | 5 | 1 | | Honomu after-shocks and shallow Mauna Kea earthquakes continue during the month<br><br>Upper east rift/ Koae eruption<br><br>Many small rock-falls at Mauna Ulu |
| 2 | | | | 2 | 16 | 95 | 25 | 8 | 7 | | | |
| 3 | | | | | 24 | 131 | 14 | 9 | 1 | 1 | | |
| 4 | | | | 3 | 14 | 130 | 25? | 170? | 63? | 1 | | |
| 5 | | | | 1 | 17? | 178? | 43? | 487? | 1380? | 2 | | |
| 6 | | | | | 44 | 14? | 13? | 967? | 135? | 3 | | |
| 7 | | | | | 37 | 16 | 11 | 649? | 86? | | | |
| 8 | | | | | 83 | 28 | 20 | 279? | 55 | 3 | | |
| 9 | | | | 1 | 117 | 24 | 25 | 165? | 36 | | | |
| 10 | | | | 1 | 97 | 36 | 27 | 89? | 89 | | | |
| | | 7m | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | $12^m$ | $5^m$ | | 5 | 131 | 89 | 33 | 31 | 17? | | |
| 12 | $10^m$ | $3^m$ | | 2 | 68 | 81 | 34 | 50 | 26 | 1 | 1 |
| 13 | | | | | 104 | 157 | 26 | 90 | 58 | 2 | |
| 14 | | | | 2 | 49 | 204 | 31 | 46 | 37 | 2 | |
| 15 | | | | | 20 | 237 | 36 | 25 | 30 | | |
| 16 | | | | 1 | 26 | 232 | 53 | 46 | 32 | 1 | |
| 17 | | | | | 10 | 258 | 37 | 63 | 34 | 3 | 1 |
| 18 | | $5^m$ | | | 29 | 203 | 25 | 67 | 7 | | 1 |
| 19 | | | | 3 | 50 | 214 | 30 | 56 | 3 | 1 | 2 |
| 20 | $10^m$ | | | | 25 | 246 | 23 | 36 | 15 | | 1 |
| 21 | | | | | 66 | 275 | 12 | 20 | 5 | 1 | 1 |
| 22 | | | | | 49 | 248 | 12 | 27 | 7 | 6 | 1 |
| 23 | | | | | 51 | 310 | 15 | 52 | 4 | 1 | 1 |
| 24 | | $3^m$ | | 2 | 19 | 180 | 15 | 64 | 8 | 1 | |
| 25 | | | | 4 | 3 | 236 | 9 | 67 | 10 | 3 | |
| 26 | | | | 2 | 3 | 292 | 11 | 77 | 2 | | 2 |
| 27 | | | | 2 | 11 | 352 | 12 | 95 | 4 | 3 | |
| 28 | | | | 1 | 16 | 395? | 17 | 82 | 1 | | |
| 29 | | $8^m$ | | 1 | 23 | 284 | 28 | 57 | 3 | | 1 |
| 30 | | $4^m$ | | | 41 | 301 | 18 | 61 | 1 | | |
| 31 | | $4^m$ | | 1 | 48 | 407 | 21 | 60 | 9 | | |

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | | | | | | |
| | Deep | Intermediate | Shallow | 30KM | Long Period | Shallow | SW rift and Kaoiki | Upper east rift | Koae | Lower east rift | Offshore Puu Pili | Remarks |
| Jun 1 | | 7m | Moderate to weak tremor from the upper east rift throughout the month | 2 | 55 | 334 | 26 | 43 | 1 | 2 | 2 | |
| 2 | 61m | 15m | | 1 | 87 | 410 | 15 | 44 | 4 | 1 | | |
| 3 | 12m? | 13m? | | | 85 | 588 | 16 | 68 | 2 | | 1 | |
| 4 | | 6m | | | 46 | 302 | 19 | 41 | 5 | | | |
| 5 | | 12m | | 1 | 88 | 438 | 36 | 58 | 5 | 2 | 1 | |
| 6 | | 5m | | | 51 | 511 | 18 | 72 | 8 | | 1 | |
| 7 | | 11m | | 1 | 26 | 487 | 29 | 88 | 15 | | | |
| 8 | | 10m | | | 23 | 414 | 24 | 55? | 1267? | | | Upper east rift/ Koae swarm and summit collapse; lava drainback and increase of rockfalls at Mauna Ulu |
| 9 | | | | 2 | 48 | 451 | 13 | 80? | 590? | 3 | 1 | |
| 10 | | | | 2 | 27 | 354 | 19 | 59? | 56? | 2 | 3 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | | | | 58 | 328 | 22 | 82? | 28? | | |
| 12 | | | | 44 | 356 | 18 | 69? | 24? | 1 | |
| 13 | $20^m$ | | | 21 | 340 | 26 | 41 | 17 | | |
| 14 | | $18^m$ | | 14 | 428 | 19 | 92 | 18 | | |
| 15 | | $15^m$ | 2 | 37 | 452 | 27 | 61 | 15 | 1 | 2 |
| 16 | | | 2 | 12 | 433 | 27 | 78 | 11 | | |
| 17 | | | | 17 | 418 | 16 | 68 | 10 | 1 | 2 |
| 18 | | | | 14 | 403 | 15 | 50 | 10 | 2 | |
| 19 | | | 2 | 19 | 405 | 7 | 48 | 7 | | |
| 20 | | $13^m$ | 1 | 60 | 431 | 14 | 31 | 4 | | |
| 21 | $36^m$ | | | 13 | 405 | 9 | 62 | 8 | 5 | 1 |
| 22 | | $14^m$ | 1 | 21 | 385 | 15 | 45 | 8 | 1 | |
| 23 | | | 2 | 6 | 374 | 14 | 58 | 7 | 2 | |
| 24 | | | 1 | 3 | 351 | 9 | 60 | 7 | 1 | |
| 25 | | | | 7 | ? | 13 | 66 | 8 | 3 | 1 |
| 26 | | | | 3 | 411? | 20 | 63 | 8 | 1 | |
| 27 | | | | 4 | 499 | 21 | 66 | 11 | 2 | |
| 28 | | | 1 | 1 | 342 | 21 | 56 | 4 | | |
| 29 | | | | 8 | 352 | 32 | 61 | 4 | 1 | 4 |
| 30 | $13^m$ | | | 10 | 470 | 26 | 60 | 4 | 2 | 3? |

Table 2 is a chronological listing of successfully located earthquakes. For each event the following data are presented:

Origin time in Hawaii Standard Time: date, hour (HR), minute (MN), and second (SEC).

Epicenter in degrees and minutes of North latitude (LAT N) and West longitude (LONG W). Poor convergence of the epicenter solution is indicated by "?".

Depth - depth of focus in km. Assumed depth is indicated by "x".

Mag - magnitude, if determined.

NO - number of stations used in locating earthquakes.

GAP - largest azimuthal separation in degrees between stations.

DMIN - epicentral distance in km to the nearest station.

ERT - standard error of the origin time in seconds.

ERH - standard error of the epicenter in km.

ERZ - standard error of the depth in km.

MD - mean deviation of the time residuals. $\left[ = \sum_i R_i/NO \right]$ where $R_i$ is the observed seismic wave arrival time less the computed time at the $i^{th}$ station.

Q - solution quality of the hypocenter. This measure is intended to indicate the general reliability of each solution:

| Q | EPICENTER | FOCAL DEPTH |
|---|---|---|
| A | excellent | good |
| B | good | fair |
| C | fair | poor |
| D | poor | poor |

Q is based both on the nature of the station distribution with respect to the earthquake and the statistical measures of the solution. These two factors are each rated independently according to the following scheme:

## Station Distribution

| | NO | GAP | DMIN |
|---|---|---|---|
| A | ≥8 | ≤120° | ≤DEPTH or 5 km |
| B | ≥6 | ≤150° | ≤2 X DEPTH or 10 km |
| C | ≥6 | ≤225° | ≤50 km |
| | ≥4 | ≤180° | |
| D | Others | | |

## Statistical Measures

| | ERH(km) | ERZ(km) | MD(sec) | RMAX(sec)* |
|---|---|---|---|---|
| A | ≤1.0 | ≤2.0 | ≤0.10 | ≤0.25 |
| B | ≤2.5 | ≤5.0 | ≤0.20 | ≤0.50 |
| C | ≤5.0 | | ≤0.30 | ≤0.75 |
| D | Others | | | |

Q is taken as the average of the ratings from the two schemes, that is, an A and a C yield a B, and two B's yield a B. When the two ratings are only one level apart the lower one is used, that is, an A and a B yield a B (Hamilton and others, 1969).

The criteria for Q are the same as used by the Office of Earthquake Research and Crustal Studies, U. S. Geological Survey.

*RMAX is the maximum residual

SUMMARY OF SEISMIC EVENTS

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | 1 | 1 | 21 38.1 | 19-18.7 | 155-14.9 | 10.2 | 1.7 | 11 | 203 | 5.0 | 0.33 | 1.5 | 2.6 | 0.09 | C |
| | 1 | 1 | 54 18.4 | 19-52.0 | 155-31.1 | 14.1 | 2.6 | 14 | 203 | 11.4 | 0.15 | 1.2 | 0.9 | 0.09 | C |
| | 1 | 8 | 16 58.1 | 18-41.8 | 155- 5.0 | 8.0* | 2.9 | 27 | 284 | 64.9 | 0.68 | 4.2 | | 0.16 | D |
| | 1 | 9 | 59 13.3 | 19-25.0 | 155-16.6 | 11.2 | 1.7 | 10 | 118 | 0.7 | 0.29 | 1.1 | 2.3 | 0.09 | B |
| | 1 | 17 | 25 25.4 | 19-22.6 | 155-24.3? | 8.0 | 1.0 | 19 | 52 | 4.8 | 0.08 | 0.5 | 0.6 | 0.14 | B |
| | 1 | 20 | 53 20.6 | 19-30.9 | 155-19.2 | 8.0* | 1.9 | 10 | 118 | 6.5 | 0.14 | 1.1 | | 0.20 | B |
| | 1 | 22 | 52 42.4 | 19-20.5 | 155- 3.7 | 8.0 | 1.0 | 12 | 133 | 1.8 | 0.33 | 2.6 | 4.2 | 0.22 | C |
| | 2 | 1 | 19 31.9 | 19-26.3 | 155-17.1 | 9.4 | 1.6 | 8 | 189 | 1.8 | 0.58 | 2.0 | 4.7 | 0.13 | C |
| | 2 | 3 | 11 27.2 | 19- 0.9 | 155-21.5 | 26.4 | 1.9 | 20 | 234 | 19.4 | 0.39 | 2.3 | 3.7 | 0.14 | D |
| | 2 | 9 | 31 48.2 | 19-19.8 | 155-13.8 | 8.0* | 1.9 | 17 | 173 | 5.3 | 0.06 | 0.5 | | 0.09 | C |
| | 2 | 10 | 25 44.0 | 19-24.8 | 155-16.7 | 2.7 | 0.7 | 7 | 107 | 0.6 | 0.26 | 0.9 | 2.1 | 0.08 | B |
| | 2 | 11 | 57 11.4 | 19-22.9 | 155-25.4 | 8.0* | 0.5 | 12 | 185 | 6.2 | 0.23 | 1.6 | | 0.20 | C |
| | 2 | 13 | 45 48.2 | 19-47.1 | 155-38.4? | 3.5 | 1.8 | 10 | 188 | 19.0 | 0.28 | 2.4 | 2.1 | 0.20 | C |
| | 2 | 16 | 16 46.0 | 19-19.8 | 155-13.3 | 7.8 | 1.6 | 19 | 144 | 5.0 | 0.09 | 0.7 | 0.4 | 0.11 | C |
| | 2 | 16 | 38 44.9 | 19-20.5 | 155-12.4 | 8.8 | 0.0 | 11 | 188 | 5.4 | 0.28 | 1.4 | 2.9 | 0.11 | C |
| | 2 | 18 | 1 50.3 | 19-20.3 | 155-13.1? | 6.2 | 1.2 | 14 | 185 | 6.6 | 0.18 | 1.1 | 1.0 | 0.18 | C |
| | 2 | 18 | 12 53.5 | 19-18.5 | 155-46.9 | 7.4 | 3.0 | 23 | 108 | 10.4 | 0.12 | 1.0 | 1.5 | 0.12 | B |
| | 2 | 18 | 16 55.0 | 19-19.1 | 155-13.0 | 8.0* | 0.8 | 11 | 213 | 7.9 | 0.16 | 1.1 | | 0.13 | C |
| | 3 | 0 | 54 26.1 | 19-19.3 | 155-10.1? | 4.8 | 1.2 | 16 | 176 | 5.2 | 0.25 | 1.6 | 1.5 | 0.26 | C |
| | 3 | 3 | 54 48.1 | 19-20.1 | 155- 8.2 | 3.5 | 0.7 | 15 | 165 | 4.5 | 0.17 | 1.2 | 1.6 | 0.21 | C |
| | 3 | 10 | 17 29.1 | 19-25.0 | 155-17.2 | 9.9 | 1.6 | 7 | 111 | 0.3 | 0.27 | 0.9 | 2.2 | 0.05 | B |
| | 3 | 11 | 3 5.5 | 19-20.6 | 155-12.8 | 8.9 | 0.8 | 14 | 181 | 5.8 | 0.13 | 0.8 | 1.4 | 0.09 | C |
| | 3 | 12 | 29 42.0 | 19-24.6 | 155-18.2 | 9.2 | 1.7 | 8 | 84 | 1.7 | 0.12 | 0.5 | 1.1 | 0.04 | A |
| | 3 | 19 | 20 59.1 | 19-24.4 | 155-16.9 | 10.9 | 1.3 | 10 | 73 | 1.0 | 0.28 | 1.1 | 2.2 | 0.08 | B |
| | 3 | 21 | 15 45.8 | 19-51.8 | 155-21.6 | 32.1 | 1.4 | 17 | 111 | 3.3 | 0.22 | 1.3 | 2.3 | 0.10 | B |
| | 3 | 21 | 28 40.8 | 19-12.0 | 155-19.8 | 26.8 | 2.2 | 23 | 193 | 11.1 | 0.23 | 1.4 | 2.1 | 0.15 | C |
| | 3 | 23 | 27 16.5 | 19-23.8 | 155-17.6 | 6.0 | 1.3 | 11 | 59 | 1.4 | 0.36 | 1.1 | 2.7 | 0.18 | B |
| | 4 | 8 | 48 53.0 | 19-24.7 | 155-16.5 | 0.5 | -0.1 | 7 | 98 | 0.9 | 0.08 | 0.2 | 0.2 | 0.05 | B |
| | 4 | 8 | 49 23.8 | 19-20.0 | 155-10.5 | 8.2 | | 9 | 165 | 4.0 | 0.05 | 0.5 | 0.9 | 0.05 | B |
| | 4 | 12 | 21 23.8 | 19-20.1 | 155-10.6 | 8.7 | | 10 | 164 | 3.9 | 0.08 | 0.7 | 1.3 | 0.08 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | 4 | 12 | 25 33.7 | 19-15.0 | 155-27.1? | 7.5 | 1.5 | 15 | 110 | 2.7 | 0.17 | 1.7 | 1.2 | 0.31 | C |
| | 4 | 15 | 21 24.3 | 19-23.4 | 155-28.0 | 7.8 | 2.4 | 23 | 83 | 10.2 | 0.17 | 0.7 | 1.2 | 0.17 | B |
| | 4 | 15 | 36 58.6 | 19-18.1 | 155-21.9? | 5.8 | 1.7 | 11 | 158 | 4.7 | 0.14 | 1.0 | 2.0 | 0.12 | C |
| | 4 | 21 | 23 32.2 | 19-19.1 | 155-15.6? | 8.5 | 0.7 | 14 | 186 | 3.6 | 0.25 | 1.3 | 2.3 | 0.15 | C |
| | 4 | 22 | 27 42.6 | 19-23.5 | 155-22.0 | 8.7 | 0.9 | 13 | 110 | 4.1 | 0.15 | 0.9 | 1.4 | 0.17 | B |
| | 5 | 8 | 31 12.2 | 19-24.7 | 155-16.1 | 7.2 | | 10 | 86 | 2.8 | 0.40 | 1.1 | 2.3 | 0.10 | B |
| | 5 | 9 | 16 13.7 | 19-16.2 | 155- 4.0 | 31.7 | 1.4 | 21 | 242 | 14.8 | 0.46 | 2.7 | 2.9 | 0.12 | D |
| | 5 | 16 | 21 9.4 | 19-47.4 | 155-13.9? | 31.2 | 0.9 | 12 | 198 | 16.0 | 1.02 | 6.7 | 10.5 | 0.34 | D |
| | 5 | 16 | 37 19.7 | 19-24.1 | 155-16.8 | 9.5 | 1.2 | 9 | 79 | 2.8 | 0.20 | 0.8 | 1.7 | 0.05 | A |
| | 5 | 19 | 18 35.9 | 19-18.6 | 155-16.3 | 33.3 | 2.5 | 26 | 145 | 3.4 | 0.15 | 0.9 | 1.5 | 0.13 | B |
| | 5 | 21 | 14 30.8 | 19-22.6 | 155-24.7 | 8.0* | 0.4 | 14 | 134 | 5.1 | 0.11 | 0.8 | | 0.14 | C |
| | 6 | 0 | 44 49.9 | 19-19.7 | 155-15.3 | 5.5 | 0.7 | 14 | 165 | 3.8 | 0.15 | 1.1 | 0.9 | 0.19 | C |
| | 6 | 8 | 18 26.3 | 19-22.4 | 155-24.6? | 8.3 | 1.1 | 10 | 152 | 4.5 | 0.09 | 0.7 | 0.8 | 0.11 | C |
| | 6 | 10 | 21 5.9 | 19-19.2 | 155-11.9 | 3.6 | 2.6 | 26 | 147 | 6.1 | 0.14 | 0.9 | 1.0 | 0.24 | C |
| | 6 | 15 | 15 40.0 | 19-34.2 | 155-43.0? | 5.4 | 1.5 | 16 | 152 | 15.3 | 0.90 | 1.4 | 6.6 | 0.17 | C |
| | 6 | 19 | 12 23.7 | 19-19.9 | 155-12.1 | 8.0* | -0.0 | 9 | 209 | 5.7 | 0.19 | 1.3 | | 0.12 | C |
| | 6 | 19 | 55 15.0 | 19-12.6 | 155- 8.3 | 38.3 | 1.2 | 23 | 219 | 16.4 | 0.31 | 1.7 | 2.5 | 0.12 | C |
| | 6 | 20 | 32 15.5 | 19-24.1 | 155-24.1 | 8.0* | 0.2 | 10 | 198 | 7.4 | 0.13 | 0.9 | | 0.12 | C |
| | 6 | 22 | 5 45.1 | 19-22.6 | 155-24.5? | 2.9 | 0.7 | 16 | 107 | 5.0 | 0.15 | 1.0 | 1.9 | 0.21 | C |
| | 6 | 22 | 37 56.2 | 19-18.7 | 155- 9.1 | 2.9 | 0.6 | 13 | 188 | 6.4 | 0.24 | 1.5 | 2.4 | 0.21 | C |
| | 6 | 23 | 37 24.1 | 19-25.5 | 155-25.0 | 7.1 | 1.4 | 21 | 64 | 8.4 | 0.10 | 0.7 | 0.6 | 0.18 | B |
| | 7 | 18 | 58 8.3 | 19-24.5 | 155-26.8 | 3.4 | 1.1 | 18 | 73 | 10.1 | 0.12 | 0.8 | 1.8 | 0.22 | C |
| | 7 | 20 | 7 19.9 | 19-26.0 | 155-25.9? | 8.2 | 2.0 | 20 | 67 | 8.3 | 0.08 | 0.5 | 0.5 | 0.12 | B |
| | 7 | 21 | 47 33.8 | 19-19.9 | 155-14.9 | 8.3 | 0.4 | 13 | 165 | 4.4 | 0.13 | 0.9 | 1.8 | 0.12 | C |
| | 7 | 22 | 37 17.7 | 19-20.7 | 155-13.1 | 4.9 | 1.1 | 18 | 166 | 3.4 | 0.15 | 1.0 | 1.0 | 0.21 | C |
| | 8 | 1 | 30 20.0 | 19-19.5 | 155-15.3 | 6.0 | 1.4 | 19 | 167 | 3.8 | 0.12 | 0.9 | 0.6 | 0.18 | C |
| | 8 | 4 | 35 29.3 | 19-21.1 | 155-25.2 | 4.2 | 0.9 | 14 | 76 | 3.6 | 0.14 | 1.0 | 1.6 | 0.23 | B |
| | 8 | 5 | 9 41.1 | 19-27.9 | 154-58.5 | 7.6 | 1.7 | 12 | 273 | 28.3 | 0.56 | 3.3 | 1.3 | 0.08 | D |
| | 8 | 10 | 16 13.1 | 19-20.0 | 155-26.9 | 6.2 | 1.6 | 13 | 117 | 6.3 | 0.13 | 1.1 | 1.7 | 0.21 | C |
| | 8 | 10 | 18 8.6 | 19-19.3 | 155- 8.0? | 8.0* | 0.7 | 11 | 181 | 6.1 | 0.21 | 2.1 | | 0.25 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR 8 | 11 | 28 | 15.9 | 19-19.8 | 155-13.8 | 8.0* | 0.5 | 8 | 175 | 6.1 | 0.10 | 1.0 | | 0.11 | C |
| 8 | 11 | 34 | 43.9 | 19-23.2 | 155-22.9 | 6.1 | 1.0 | 13 | 151 | 5.6 | 0.12 | 1.0 | 0.9 | 0.16 | C |
| 8 | 19 | 2 | 21.6 | 19-21.2 | 155-24.4 | 7.3 | 0.7 | 12 | 110 | 2.7 | 0.12 | 1.1 | 1.0 | 0.17 | B |
| 8 | 19 | 16 | 0.5 | 19-12.5 | 155-27.5 | 5.6 | 2.1 | 18 | 130 | 5.6 | 0.12 | 1.1 | 0.9 | 0.22 | C |
| 8 | 20 | 32 | 53.1 | 19-19.1 | 155- 9.0 | 3.1 | 2.3 | 24 | 160 | 5.6 | 0.17 | 1.0 | 1.0 | 0.24 | C |
| 9 | 1 | 21 | 7.4 | 19-19.6 | 155-15.7 | 6.6 | 0.5 | 12 | 163 | 3.1 | 0.10 | 0.8 | 0.7 | 0.13 | C |
| 9 | 4 | 41 | 47.3 | 19-22.6 | 155-24.0 | 8.2 | 2.8 | 25 | 44 | 4.6 | 0.10 | 0.6 | 0.7 | 0.18 | B |
| 9 | 6 | 48 | 12.1 | 19-23.3 | 155-28.1 | 4.1 | 1.3 | 15 | 109 | 10.2 | 0.15 | 1.1 | 1.9 | 0.21 | C |
| 9 | 13 | 48 | 40.9 | 19- 9.4 | 155-27.8 | 44.5 | 1.6 | 20 | 162 | 0.3 | 0.62 | 2.8 | 5.8 | 0.26 | C |
| 9 | 18 | 58 | 27.6 | 19-21.1 | 155-12.4 | 6.2 | 1.6 | 20 | 135 | 2.6 | 0.10 | 0.8 | 0.7 | 0.21 | C |
| 9 | 21 | 31 | 14.0 | 19-19.6 | 155-16.0 | 8.2 | 0.6 | 11 | 161 | 2.7 | 0.12 | 1.2 | 0.7 | 0.15 | C |
| 9 | 23 | 13 | 19.5 | 19-10.6 | 155-33.7 | 6.0 | 2.3 | 13 | 105 | 9.9 | 0.16 | 1.1 | 1.1 | 0.20 | B |
| 10 | 0 | 9 | 55.7 | 19-20.6 | 155-13.1 | 4.7 | 0.9 | 15 | 176 | 5.8 | 0.20 | 1.2 | 1.4 | 0.23 | C |
| 10 | 5 | 55 | 24.9 | 19-22.8 | 155-15.7 | 27.8 | 0.8 | 14 | 100 | 0.8 | 0.24 | 1.1 | 2.3 | 0.10 | B |
| 10 | 6 | 19 | 29.3 | 19-19.6 | 155-13.5 | 7.4 | 2.8 | 25 | 143 | 5.5 | 0.09 | 0.7 | 0.5 | 0.16 | B |
| 10 | 16 | 16 | 19.7 | 19-21.1 | 155-13.7 | 4.7 | 0.8 | 14 | 161 | 4.6 | 0.15 | 1.0 | 1.2 | 0.18 | C |
| 10 | 16 | 23 | 32.0 | 19-20.6 | 155-13.3 | 8.0* | -0.0 | 9 | 176 | 6.5 | 0.14 | 1.1 | | 0.12 | C |
| 10 | 21 | 42 | 37.0 | 19-27.2 | 155-52.5 | 8.4 | 2.9 | 21 | 230 | 20.6 | 0.23 | 1.4 | 1.5 | 0.12 | C |
| 11 | 1 | 0 | 1.9 | 19-18.3 | 155-15.2 | 7.3 | 2.4 | 25 | 152 | 5.0 | 0.10 | 0.7 | 0.5 | 0.16 | C |
| 11 | 5 | 19 | 28.5 | 19-19.8 | 155-11.8 | 3.1 | 1.6 | 21 | 147 | 5.2 | 0.16 | 1.0 | 1.4 | 0.26 | C |
| 11 | 5 | 47 | 12.5 | 19-24.8 | 155-17.3 | 13.8 | 1.1 | 17 | 72 | 0.5 | 0.06 | 0.5 | 0.8 | 0.10 | B |
| 11 | 6 | 45 | 40.3 | 19-25.7 | 155-27.0 | 5.9 | 1.2 | 18 | 66 | 9.9 | 0.09 | 0.7 | 0.9 | 0.18 | B |
| 11 | 7 | 27 | 19.3 | 19-22.4 | 155-25.3 | 8.0* | 2.0 | 11 | 138 | 5.3 | 0.08 | 0.7 | . | 0.12 | C |
| 11 | 10 | 1 | 14.7 | 20- 3.4 | 155-21.1 | 10.3 | 1.4 | 8 | 234 | 18.5 | 0.23 | 1.6 | 1.1 | 0.05 | C |
| 11 | 22 | 21 | 58.8 | 19-24.0 | 155-16.4 | 13.0 | 1.8 | 24 | 50 | 2.0 | 0.04 | 0.6 | 0.4 | 0.13 | B |
| 12 | 7 | 18 | 35.3 | 19-18.9 | 155-15.3 | 7.4 | 1.9 | 21 | 144 | 4.3 | 0.09 | 0.7 | 0.6 | 0.15 | B |
| 12 | 13 | 10 | 27.6 | 19-22.4 | 155-24.9? | 7.6 | 1.6 | 18 | 69 | 4.9 | 0.10 | 0.7 | 0.7 | 0.15 | B |
| 12 | 15 | 34 | 49.9 | 19-20.6 | 155-24.8 | 7.9 | 1.0 | 15 | 109 | 2.7 | 0.06 | 0.7 | 1.3 | 0.12 | B |
| 12 | 23 | 12 | 30.3 | 19-19.9 | 155-14.3 | 4.9 | 1.4 | 13 | 183 | 5.5 | 0.21 | 1.2 | 1.3 | 0.20 | C |
| 13 | 2 | 29 | 15.4 | 19- 9.0 | 155-40.9 | 5.7 | 2.7 | 19 | 128 | 12.8 | 0.24 | 1.6 | 1.6 | 0.25 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR 13 | 8 | 14 | 43.4 | 19-23.0 | 155- 5.0? | 8.0* | 1.6 | 9 | 240 | 8.7 | 1.73 | 9.8 | | 0.28 | D |
| 13 | 11 | 22 | 56.1 | 19-24.5 | 155-17.7 | 7.8 | 1.2 | 8 | 101 | 1.7 | 0.26 | 0.5 | 1.6 | 0.04 | A |
| 13 | 12 | 16 | 13.5 | 19-20.2 | 155-13.9 | 4.5 | 2.2 | 26 | 138 | 4.8 | 0.12 | 0.8 | 0.9 | 0.27 | C |
| 13 | 16 | 13 | 9.6 | 19-25.2 | 155-16.2 | 1.6 | 0.5 | 9 | 115 | 1.1 | 0.11 | 0.6 | 0.5 | 0.14 | B |
| 13 | 16 | 58 | 17.8 | 19-19.5 | 155-14.5 | 8.9 | 0.4 | 10 | 219 | 5.2 | 0.51 | 2.6 | 3.5 | 0.12 | C |
| 13 | 22 | 30 | 55.3 | 19-24.6 | 155-17.4 | 8.1 | 1.5 | 11 | 65 | 8.1 | 0.07 | 0.7 | 0.4 | 0.07 | A |
| 13 | 22 | 32 | 55.7 | 19-24.0 | 155-18.6 | 7.7 | 0.8 | 12 | 68 | 2.1 | 0.12 | 0.7 | 0.9 | 0.09 | A |
| 14 | 0 | 8 | 55.5 | 19-21.5 | 155-25.9 | 7.0 | 0.5 | 10 | 139 | 5.2 | 0.16 | 1.2 | 0.7 | 0.15 | B |
| 14 | 0 | 37 | 52.3 | 19-21.7 | 155-26.1 | 8.0* | 0.3 | 9 | 141 | 11.8 | 0.09 | 0.8 | | 0.10 | C |
| 14 | 4 | 56 | 13.7 | 20- 4.2 | 155-32.2 | 10.0 | 1.9 | 23 | 210 | 26.2 | 0.24 | 2.1 | 2.0 | 0.21 | C |
| 14 | 6 | 21 | 55.8 | 19-24.1 | 155-17.6 | 6.8 | 1.0 | 7 | 81 | 8.4 | 0.31 | 0.6 | 2.2 | 0.05 | B |
| 14 | 8 | 3 | 47.3 | 19-11.5 | 155-17.2 | 30.5 | 1.0 | 12 | 281 | 12.2 | 0.88 | 4.7 | 5.1 | 0.13 | D |
| 14 | 10 | 50 | 46.9 | 19-20.0 | 155- 8.4 | 8.5 | 1.5 | 16 | 167 | 4.7 | 0.11 | 1.0 | 2.2 | 0.13 | C |
| 14 | 17 | 37 | 52.0 | 19-21.1 | 155-25.1 | 4.0 | 2.1 | 19 | 76 | 3.6 | 0.12 | 0.9 | 1.3 | 0.25 | B |
| 14 | 19 | 0 | 45.0 | 19-20.4 | 155- 8.6 | 7.4 | 1.3 | 11 | 196 | 3.7 | 0.28 | 2.1 | 1.0 | 0.16 | C |
| 14 | 21 | 42 | 18.7 | 19-18.9 | 155-27.0? | 0.0 | 2.5 | 24 | 88 | 6.9 | 4.72 | 0.8 | 8.9 | 0.27 | C |
| 15 | 0 | 59 | 38.1 | 19-18.1 | 155- 6.5 | 2.8 | 4.2 | 26 | 190 | 9.4 | 0.24 | 1.2 | 1.2 | 0.24 | C |
| 15 | 1 | 8 | 16.6 | 19-19.9 | 155- 7.3 | 8.0* | 0.7 | 11 | 170 | 5.9 | 0.14 | 1.3 | | 0.13 | C |
| 15 | 1 | 15 | 56.2 | 19-19.4 | 155- 8.1? | 2.7 | 1.1 | 18 | 177 | 5.8 | 0.18 | 1.2 | 1.4 | 0.24 | C |
| 15 | 1 | 19 | 21.5 | 19-20.6 | 155- 8.1? | 7.7 | 0.9 | 13 | 157 | 4.1 | 0.17 | 1.7 | 1.0 | 0.19 | C |
| 15 | 1 | 38 | 16.9 | 19-20.2 | 155- 8.0 | 8.2 | 1.0 | 14 | 236 | 4.8 | 0.29 | 1.9 | 2.3 | 0.10 | C |
| 15 | 1 | 43 | 5.0 | 19-19.2 | 155- 7.3 | 8.0* | 0.8 | 13 | 184 | 7.0 | 0.20 | 1.8 | | 0.24 | C |
| 15 | 1 | 43 | 23.0 | 19-19.9 | 155- 8.6 | 1.0 | 2.5 | 23 | 150 | 8.5 | 1.17 | 0.9 | 4.2 | 0.23 | C |
| 15 | 1 | 57 | 54.8 | 19-19.5 | 155- 8.6 | 8.0* | 0.9 | 15 | 175 | 5.2 | 0.11 | 1.0 | | 0.14 | C |
| 15 | 1 | 59 | 56.4 | 19-19.5 | 155- 8.3 | 3.8 | 2.0 | 22 | 156 | 5.4 | 0.15 | 1.0 | 1.0 | 0.23 | C |
| 15 | 7 | 16 | 51.6 | 19-19.0 | 155- 7.5? | 0.0 | 1.6 | 21 | 190 | 7.0 | 5.73 | 1.5 | 10.7 | 0.25 | C |
| 15 | 7 | 34 | 8.8 | 19-19.7 | 155- 8.1 | 8.0* | 0.6 | 11 | 172 | 5.3 | 0.12 | 1.0 | | 0.11 | C |
| 15 | 7 | 36 | 58.2 | 19-19.9 | 155- 8.0 | 8.8 | 0.3 | 10 | 169 | 5.2 | 0.23 | 1.8 | 3.6 | 0.14 | C |
| 15 | 8 | 9 | 27.2 | 19-24.3 | 155-28.6 | 7.4 | 0.9 | 13 | 176 | 12.0 | 0.14 | 0.9 | 0.7 | 0.11 | C |
| 15 | 9 | 58 | 2.6 | 19-43.3 | 155- 4.7? | 83.6* | 1.8 | 13 | 232 | 24.1 | 2.48 | 27.2 | | 0.74 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | 15 | 22 | 21 | 12.5 | 19-20.4 | 155- 7.9? | 8.3 | 0.7 | 11 | 161 | 4.6 | 0.14 | 1.1 | 1.0 | 0.16 | C |
| | 15 | 23 | 50 | 30.1 | 19-20.5 | 155- 8.3 | 10.2 | 0.5 | 13 | 158 | 8.4 | 0.12 | 0.7 | 1.7 | 0.08 | B |
| | 16 | 14 | 29 | 57.6 | 19-19.8 | 155- 7.4 | 3.7 | 3.0 | 20 | 172 | 6.1 | 0.18 | 1.2 | 1.1 | 0.25 | C |
| | 16 | 14 | 55 | 46.8 | 19-20.3 | 155- 6.4 | 8.0* | 1.9 | 14 | 162 | 6.2 | 0.12 | 1.1 | | 0.12 | C |
| | 16 | 23 | 42 | 41.6 | 19-20.3 | 155- 8.3 | 5.7 | 2.1 | 19 | 161 | 4.1 | 0.14 | 1.1 | 0.9 | 0.19 | C |
| | 17 | 5 | 24 | 54.4 | 19-25.5 | 155-25.1 | 6.0 | 2.3 | 23 | 64 | 8.5 | 0.08 | 0.6 | 0.6 | 0.17 | B |
| | 18 | 11 | 1 | 40.7 | 19-10.9 | 155-33.1 | 6.8 | 2.8 | 16 | 102 | 9.6 | 0.17 | 1.2 | 1.1 | 0.21 | C |
| | 18 | 13 | 41 | 46.4 | 19-10.6 | 156- 4.2 | 48.7 | 3.3 | 18 | 266 | 23.1 | 0.80 | 3.7 | 5.4 | 0.11 | D |
| | 19 | 2 | 14 | 13.1 | 19-19.6 | 155-13.6 | 7.4 | 0.6 | 13 | 196 | 6.7 | 0.16 | 1.2 | 0.6 | 0.15 | C |
| | 19 | 2 | 25 | 53.2 | 19-19.4 | 155-14.1 | 6.0 | 0.5 | 8 | 196 | 6.0 | 0.33 | 1.9 | 1.8 | 0.17 | C |
| | 19 | 13 | 4 | 11.5 | 19-29.3 | 155-12.2 | 23.7 | | 10 | 170 | 11.8 | 0.15 | 0.9 | 1.6 | 0.06 | B |
| | 19 | 18 | 20 | 27.0 | 19-20.1 | 155-14.1 | 3.8 | | 16 | 180 | 5.0 | 0.19 | 1.1 | 1.3 | 0.22 | C |
| | 19 | 18 | 51 | 5.8 | 19-20.3 | 155- 8.7 | 4.7 | 3.1 | 20 | 144 | 3.7 | 0.15 | 1.0 | 0.9 | 0.24 | C |
| | 19 | 18 | 54 | 4.8 | 19-12.6 | 155-27.5? | 7.1 | 2.2 | 13 | 127 | 5.8 | 0.16 | 1.4 | 2.4 | 0.20 | B |
| | 20 | 12 | 6 | 50.7 | 19-21.6 | 155-12.8 | 2.5 | | 8 | 156 | 1.6 | 0.19 | 1.2 | 4.1 | 0.13 | C |
| | 20 | 13 | 33 | 25.5 | 19-21.9 | 155-25.2? | 7.9 | | 10 | 68 | 4.6 | 0.10 | 0.8 | 0.7 | 0.12 | B |
| | 20 | 15 | 47 | 9.0 | 19-19.8 | 155- 7.8? | 3.1 | | 11 | 171 | 5.5 | 0.24 | 1.7 | 2.4 | 0.27 | C |
| | 20 | 22 | 55 | 58.5 | 19-24.3 | 155-26.7 | 8.0* | | 8 | 217 | 9.6 | 0.16 | 1.1 | | 0.09 | C |
| | 21 | 1 | 3 | 43.4 | 19- 7.2 | 155-33.9 | 8.4 | 2.6 | 16 | 147 | 11.4 | 0.10 | 0.9 | 1.3 | 0.14 | B |
| | 21 | 2 | 29 | 42.1 | 19-18.7 | 155- 7.1? | 0.9* | | 11 | 251 | 7.9 | 0.30 | 1.5 | | 0.25 | D |
| | 21 | 4 | 2 | 24.8 | 19-13.0 | 155-25.4 | 31.0 | | 17 | 154 | 7.8 | 0.27 | 1.4 | 2.8 | 0.15 | C |
| | 21 | 6 | 22 | 40.6 | 19-45.3 | 156- 7.2 | 38.8 | | 13 | 247 | 54.6 | 0.47 | 2.4 | 4.8 | 0.10 | C |
| | 21 | 7 | 4 | 1.0 | 18-47.5 | 155-11.6 | 8.0* | | 17 | 290 | 49.7 | 1.13 | 7.2 | | 0.18 | D |
| | 21 | 18 | 27 | 33.9 | 19-19.4 | 155-13.4 | 8.0* | | 9 | 203 | 7.1 | 0.13 | 1.0 | | 0.10 | C |
| | 21 | 19 | 20 | 7.4 | 19-19.5 | 155-13.3 | 8.0 | 1.7 | 18 | 183 | 5.6 | 0.11 | 0.8 | 0.4 | 0.10 | C |
| | 22 | 3 | 1 | 11.0 | 19-19.1 | 155-13.3 | 8.0* | | 11 | 209 | 7.4 | 0.13 | 0.9 | | 0.10 | C |
| | 22 | 3 | 3 | 14.2 | 19-19.8 | 155-13.6 | 7.6 | | 16 | 184 | 6.3 | 0.13 | 0.9 | 0.6 | 0.14 | C |
| | 22 | 3 | 8 | 53.7 | 19-19.6 | 155-13.5 | 3.6 | | 12 | 198 | 6.7 | 0.26 | 1.5 | 2.3 | 0.24 | C |
| | 22 | 4 | 23 | 44.4 | 19-20.0 | 155-14.6 | 26.0 | | 18 | 138 | 4.9 | 0.11 | 0.7 | 1.1 | 0.08 | B |
| | 22 | 21 | 7 | 52.1 | 19-58.3 | 154-41.1? | 47.5* | 4.8 | 22 | 282 | 50.6 | 0.62 | 4.3 | | 0.24 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR 23 | 18 | 21 | 19.7 | 19-20.7 | 155-12.2 | 8.0* | | 10 | 188 | 4.8 | 0.14 | 1.2 | | 0.13 | C |
| 24 | 6 | 16 | 22.2 | 19-53.9 | 155-43.6 | 40.1 | 3.9 | 28 | 123 | 26.0 | 0.18 | 0.9 | 2.4 | 0.14 | B |
| 24 | 8 | 7 | 42.7 | 19-19.4 | 155- 0.8? | 3.1 | | 14 | 279 | 16.6 | 1.07 | 4.5 | 2.5 | 0.20 | D |
| 24 | 9 | 22 | 45.9 | 19-22.8 | 155-27.8 | 5.6 | 1.9 | 15 | 137 | 9.2 | 0.12 | 0.9 | 1.1 | 0.18 | B |
| 24 | 9 | 45 | 36.5 | 19-20.6 | 155-13.0 | 5.7 | | 16 | 180 | 6.0 | 0.16 | 1.0 | 0.9 | 0.17 | C |
| 24 | 14 | 12 | 47.1 | 19-20.9 | 155-24.4 | 8.7 | | 10 | 123 | 2.3 | 0.08 | 0.8 | 1.4 | 0.09 | B |
| 25 | 3 | 13 | 11.5 | 19-20.1 | 155-12.9? | 0.0 | | 13 | 194 | 6.5 | 9.39 | 1.5 | 17.9 | 0.23 | C |
| 25 | 4 | 43 | 56.7 | 19-22.8 | 155-23.2 | 5.6 | | 11 | 167 | 4.7 | 0.16 | 1.1 | 1.4 | 0.15 | C |
| 25 | 19 | 8 | 5.1 | 19-56.7 | 155-33.1 | 4.8 | 2.6 | 11 | 280 | 20.6 | 1.09 | 4.9 | 2.8 | 0.13 | D |
| 26 | 10 | 26 | 30.1 | 19-53.6 | 155- 6.2 | 50.1 | | 27 | 205 | 25.2 | 0.29 | 1.4 | 2.6 | 0.12 | C |
| 26 | 11 | 32 | 7.7 | 19-38.5 | 155-13.3 | 8.0* | 0.5 | 5 | 264 | 22.6 | 0.30 | 1.8 | | 0.04 | D |
| 26 | 11 | 33 | 23.2 | 19-56.5 | 155- 2.9 | 52.0 | 2.2 | 13 | 291 | 24.9 | 2.07 | 9.0 | 14.0 | 0.12 | D |
| 26 | 11 | 40 | 58.9 | 19-22.1 | 155-27.9 | 8.0* | | 4 | 302 | 16.3 | | | | 0.15 | D |
| 26 | 11 | 45 | 23.0 | 19-39.6 | 155-12.8 | 8.0* | 1.7 | 9 | 199 | 14.7 | 0.30 | 2.5 | | 0.20 | C |
| 26 | 11 | 52 | 37.8 | 19-36.8 | 155-16.5 | 8.0* | 1.9 | 7 | 316 | 17.6 | 0.35 | 3.0 | | 0.17 | D |
| 26 | 11 | 58 | 19.6 | 19-31.1 | 155-14.3 | 8.0* | 2.0 | 7 | 289 | 12.4 | 0.22 | 2.4 | | 0.21 | D |
| 26 | 12 | 2 | 21.2 | 19-35.9 | 155-13.4 | 8.0* | 1.7 | 7 | 245 | 19.7 | 0.12 | 1.1 | | 0.09 | D |
| 26 | 12 | 6 | 9.4 | 19-36.9 | 155-11.5 | 8.0* | 1.9 | 5 | 255 | 24.2 | 0.65 | 3.9 | | 0.07 | D |
| 26 | 12 | 37 | 54.4 | 19-33.5 | 155-12.3 | 8.0* | | 5 | 221 | 16.1 | 0.72 | 5.8 | | 0.19 | D |
| 26 | 12 | 46 | 48.3 | 19-35.4 | 155-11.6 | 8.0* | 1.7 | 8 | 242 | 16.7 | 0.12 | 1.2 | | 0.14 | D |
| 26 | 12 | 55 | 10.7 | 19-35.1 | 155-12.2 | 8.0* | 1.8 | 10 | 238 | 20.2 | 0.11 | 1.2 | | 0.14 | D |
| 26 | 13 | 18 | 55.7 | 19-35.4 | 155-13.4? | 8.0* | 1.8 | 6 | 240 | 19.3 | 0.67 | 4.5 | | 0.17 | D |
| 26 | 13 | 19 | 46.4 | 19-37.8 | 155-12.0 | 8.0* | | 5 | 261 | 24.6 | 1.00 | 5.9 | | 0.11 | D |
| 26 | 13 | 56 | 4.0 | 19-37.8 | 155- 9.4 | 8.0* | 2.6 | 7 | 166 | 12.3 | 0.21 | 3.8 | | 0.21 | C |
| 26 | 14 | 9 | 27.1 | 19-36.6 | 155-11.3 | 8.0* | 0.9 | 8 | 253 | 17.6 | 0.44 | 2.7 | | 0.13 | D |
| 26 | 14 | 30 | 14.4 | 19-35.7 | 155-12.5 | 8.0* | 1.6 | 11 | 243 | 18.3 | 0.40 | 2.4 | | 0.17 | D |
| 26 | 14 | 36 | 30.7 | 19-21.2 | 155-23.7 | 8.0 | -0.0 | 5 | 201 | 2.0 | | | | 0.01 | D |
| 26 | 14 | 39 | 24.1 | 19-36.0 | 155-11.5 | 8.0* | 2.2 | 9 | 247 | 22.3 | 0.67 | 4.1 | | 0.20 | D |
| 26 | 14 | 40 | 31.1 | 19-25.1 | 155-12.1 | 8.0* | 1.5 | 6 | 168 | 8.6 | 0.35 | 3.5 | | 0.22 | C |
| 26 | 14 | 43 | 10.8 | 19-37.5 | 155-25.2 | 20.3* | 2.1 | 6 | 334 | 14.6 | 0.61 | 5.1 | | 0.07 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | 26 | 17 | 11 | 21.1 | 19-38.2 | 155-11.4 | 18.7* | 2.2 | 5 | 277 | 19.8 | 0.93 | 7.4 | | 0.09 | D |
| | 26 | 17 | 13 | 18.2 | 19-43.6 | 155-12.3 | 8.0* | 0.8 | 3 | 292 | 28.9 | | | | 0.00 | D |
| | 26 | 17 | 23 | 7.6 | 19-34.5 | 155- 9.2 | 8.0* | 0.3 | 4 | 292 | 22.9 | | | | 0.03 | D |
| | 26 | 17 | 26 | 17.7 | 19-53.5 | 155- 7.3 | 48.5 | 3.4 | 24 | 221 | 19.2 | 0.47 | 2.1 | 3.9 | 0.14 | C |
| | 26 | 17 | 29 | 22.6 | 19-25.3 | 155-13.8 | 23.1 | 0.6 | 9 | 125 | 6.7 | 0.18 | 1.1 | 1.8 | 0.07 | B |
| | 26 | 17 | 29 | 35.7 | 19-50.9 | 155- 8.0? | 41.8 | 1.9 | 19 | 240 | 15.0 | 0.74 | 3.2 | 5.6 | 0.12 | D |
| | 26 | 17 | 31 | 1.5 | 19-48.6 | 155-11.4 | 32.0 | 1.6 | 13 | 219 | 18.3 | 0.22 | 1.2 | 2.6 | 0.09 | C |
| | 26 | 17 | 32 | 0.1 | 19-24.7 | 155-13.6 | 24.8 | 0.8 | 7 | 120 | 8.2 | 0.24 | 1.3 | 2.7 | 0.06 | B |
| | 26 | 17 | 34 | 7.7 | 19-48.3 | 155-20.3? | 8.3 | 2.3 | 10 | 174 | 9.4 | 0.24 | 2.4 | 3.7 | 0.12 | C |
| | 26 | 17 | 49 | 14.9 | 19-58.0 | 155- 0.8 | 52.5 | 3.2 | 21 | 243 | 28.4 | 0.66 | 3.1 | 5.0 | 0.16 | D |
| | 26 | 18 | 26 | 37.6 | 19-47.4 | 155-10.2? | 14.0* | 1.5 | 15 | 219 | 21.2 | 0.43 | 3.5 | | 0.31 | D |
| | 26 | 18 | 36 | 45.8 | 19-46.5 | 155-12.2 | 13.2* | 1.3 | 12 | 203 | 19.4 | 0.21 | 1.9 | | 0.16 | C |
| | 26 | 18 | 41 | 31.1 | 19-52.3 | 155- 6.9? | 38.0 | | 16 | 256 | 16.9 | 0.84 | 3.9 | 6.2 | 0.14 | D |
| | 26 | 19 | 6 | 3.8 | 19-45.8 | 155-20.7? | 79.8* | 2.0 | 17 | 133 | 12.0 | 3.48 | 31.2 | | 1.21 | C |
| | 26 | 19 | 7 | 17.0 | 19-51.1 | 155- 9.4 | 43.9 | 2.5 | 18 | 224 | 16.1 | 0.45 | 1.9 | 3.7 | 0.12 | C |
| | 26 | 19 | 9 | 22.2 | 19-55.6 | 155-10.1 | 50.1* | 3.1 | 22 | 231 | 18.8 | 0.19 | 1.9 | | 0.16 | D |
| | 26 | 19 | 16 | 24.2 | 19-20.1 | 155-17.2 | 32.5 | 1.0 | 8 | 181 | 10.7 | 0.18 | 0.8 | 1.7 | 0.04 | B |
| | 26 | 19 | 24 | 15.0 | 19-32.5 | 155-12.6 | 8.0* | 0.5 | 3 | 315 | 15.8 | | | | 0.00 | D |
| | 26 | 19 | 30 | 13.6 | 19-24.1 | 155-17.3 | 8.0* | | 3 | 272 | 2.5 | | | | 0.00 | D |
| | 26 | 19 | 34 | 52.2 | 19-37.4 | 155- 6.0? | 8.0* | 1.5 | 7 | 205 | 10.8 | 0.39 | 5.4 | | 0.17 | D |
| | 26 | 19 | 56 | 52.6 | 19-34.8 | 155-10.6 | 8.0* | | 5 | 252 | 14.6 | 1.12 | 7.6 | | 0.15 | D |
| | 26 | 20 | 9 | 2.4 | 19-42.1 | 155-14.4 | 8.0* | 1.6 | 11 | 240 | 16.1 | 0.28 | 1.7 | | 0.16 | D |
| | 26 | 20 | 35 | 4.6 | 19-54.6 | 155- 8.5? | 43.9 | 1.4 | 9 | 247 | 21.2 | 0.74 | 3.1 | 5.9 | 0.07 | D |
| | 26 | 20 | 43 | 11.6 | 19-51.0 | 155-13.1? | 41.9 | 1.3 | 10 | 229 | 41.7 | 0.96 | 3.9 | 8.1 | 0.13 | D |
| | 26 | 20 | 47 | 59.1 | 19-34.7 | 155-12.5 | 8.0* | | 6 | 234 | 17.4 | 0.76 | 5.5 | | 0.20 | D |
| | 26 | 20 | 48 | 37.2 | 19-47.2 | 155-31.6 | 24.9 | 1.1 | 14 | 226 | 7.2 | 0.34 | 1.7 | 3.2 | 0.10 | C |
| | 26 | 21 | 3 | 14.3 | 19-46.6 | 155-13.4 | 13.5* | | 15 | 196 | 17.7 | 0.16 | 1.4 | | 0.15 | C |
| | 26 | 21 | 24 | 49.2 | 19-19.9 | 155- 5.3 | 8.0* | | 7 | 263 | 19.3 | 0.95 | 5.9 | | 0.13 | D |
| | 26 | 22 | 0 | 34.7 | 19-55.4 | 155- 5.2 | 51.3 | 2.8 | 22 | 230 | 22.6 | 0.42 | 1.9 | 3.4 | 0.13 | C |
| | 26 | 22 | 7 | 0.4 | 19-51.9 | 155- 6.6 | 44.2* | 2.7 | 20 | 234 | 16.1 | 0.11 | 1.0 | | 0.10 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | 26 | 22 | 8 58.5 | 19-49.9 | 155-19.1 | 8.1 | | 12 | 139 | 7.0 | 0.08 | 1.2 | 1.6 | 0.09 | B |
| | 26 | 23 | 25 34.1 | 19-48.3 | 155- 8.5? | 14.3* | 1.5 | 13 | 210 | 23.1 | 0.40 | 3.1 | | 0.31 | D |
| | 26 | 23 | 25 53.8 | 19-51.5 | 154-15.4 | 120.4* | | 17 | 321 | 93.1 | 1.09 | 9.2 | | 0.22 | D |
| | 26 | 23 | 27 26.7 | 19-48.6 | 155-18.1 | 4.0 | | 10 | 171 | 9.8 | 0.28 | 2.0 | 3.0 | 0.19 | C |
| | 26 | 23 | 27 54.9 | 19-50.4 | 155-19.4 | 10.0 | 2.5 | 16 | 139 | 5.9 | 0.10 | 1.4 | 1.7 | 0.11 | B |
| | 26 | 23 | 33 38.6 | 19-55.4 | 155-36.7 | 8.7 | 4.0 | 26 | 134 | 22.6 | 0.10 | 0.9 | 1.5 | 0.14 | C |
| | 26 | 23 | 40 5.3 | 19-47.7 | 155-11.1? | 13.7* | 0.4 | 9 | 215 | 19.5 | 0.27 | 2.2 | | 0.16 | C |
| | 26 | 23 | 50 21.2 | 19-47.7 | 155-10.7 | 14.2* | | 7 | 218 | 29.4 | 0.33 | 2.7 | | 0.13 | C |
| | 26 | 23 | 56 13.9 | 19-27.8 | 155- 8.4 | 13.5* | 0.6 | 7 | 181 | 9.2 | 0.11 | 2.3 | | 0.10 | C |
| | 27 | 0 | 45 17.0 | 19-50.1 | 155-18.8 | 8.6 | | 11 | 146 | 6.9 | 0.09 | 0.7 | 1.3 | 0.10 | B |
| | 27 | 1 | 11 3.0 | 19-56.1 | 155-13.1 | 45.6 | 0.8 | 9 | 272 | 13.9 | 1.96 | 7.4 | 15.1 | 0.11 | D |
| | 27 | 1 | 16 12.9 | 19-59.1 | 155- 0.2 | 54.9* | | 10 | 312 | 37.0 | 0.27 | 2.3 | | 0.07 | D |
| | 27 | 1 | 56 38.6 | 19-50.8 | 155-19.9 | 31.1 | | 12 | 186 | 5.0 | 0.67 | 2.8 | 5.9 | 0.10 | C |
| | 27 | 2 | 2 53.8 | 19-56.6 | 155- 9.9 | 63.5* | 1.2 | 12 | 276 | 19.5 | 0.18 | 2.2 | | 0.10 | D |
| | 27 | 2 | 46 16.0 | 20- 0.1 | 155-12.3 | 55.0* | 1.6 | 13 | 296 | 57.1 | 0.32 | 3.3 | | 0.11 | D |
| | 27 | 3 | 16 24.4 | 19-45.3 | 155-13.1 | 13.4* | 0.7 | 11 | 232 | 25.2 | 0.36 | 2.6 | | 0.17 | D |
| | 27 | 3 | 19 53.4 | 19-46.8 | 155- 8.9 | 13.6* | | 13 | 223 | 23.9 | 0.29 | 2.3 | | 0.17 | C |
| | 27 | 3 | 29 20.7 | 19-21.6 | 155-24.9? | 7.3 | 0.7 | 14 | 67 | 3.8 | 0.09 | 0.9 | 1.2 | 0.16 | B |
| | 27 | 3 | 30 40.8 | 19-45.8 | 155-13.3 | 13.6* | 0.6 | 11 | 192 | 18.9 | 0.21 | 2.1 | | 0.17 | C |
| | 27 | 3 | 40 29.3 | 19-47.0 | 155-13.5? | 13.8* | | 11 | 197 | 17.0 | 0.20 | 1.9 | | 0.16 | C |
| | 27 | 3 | 53 41.7 | 19-50.0 | 155-18.1 | 4.8 | | 13 | 154 | 7.7 | 0.16 | 1.3 | 1.6 | 0.16 | C |
| | 27 | 4 | 0 36.4 | 19-28.7 | 155-45.4? | 3.4 | 0.9 | 13 | 254 | 16.5 | 1.30 | 3.1 | 7.6 | 0.13 | D |
| | 27 | 4 | 3 43.5 | 19-45.6 | 155-10.7 | 13.1* | 0.8 | 11 | 207 | 22.4 | 0.24 | 2.0 | | 0.18 | C |
| | 27 | 4 | 27 16.2 | 19-46.3 | 155-14.9 | 14.1* | | 15 | 184 | 16.4 | 0.18 | 1.6 | | 0.18 | C |
| | 27 | 4 | 57 41.0 | 19-47.3 | 155- 8.1? | 38.6 | 2.5 | 21 | 206 | 9.0 | 0.29 | 1.5 | 2.1 | 0.12 | C |
| | 27 | 5 | 28 52.5 | 19-13.9 | 155-27.6 | 8.0* | 0.9 | 11 | 161 | 21.2 | 0.12 | 1.2 | | 0.15 | C |
| | 27 | 5 | 42 5.1 | 19-56.0 | 155- 4.3 | 53.6 | 2.6 | 19 | 233 | 23.7 | 0.51 | 2.3 | 4.2 | 0.14 | C |
| | 27 | 6 | 15 51.9 | 19-46.1 | 155-10.3? | 8.0* | 0.6 | 10 | 284 | 30.1 | 6.43 | 38.5 | | 0.20 | D |
| | 27 | 6 | 56 22.3 | 19-25.1 | 155-11.6 | 22.1 | 0.4 | 11 | 173 | 4.8 | 0.19 | 1.1 | 1.8 | 0.07 | C |
| | 27 | 6 | 59 29.0 | 19-46.2 | 155-12.8 | 14.2* | 1.3 | 11 | 197 | 19.0 | 0.22 | 1.9 | | 0.19 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR 27 | 7 | 43 | 42.9 | 19-43.7 | 155-14.4 | 8.0* | | 3 | 292 | 30.0 | | | | 0.00 | D |
| 27 | 7 | 54 | 13.6 | 19-46.6 | 155-12.4 | 14.0* | | 12 | 201 | 19.0 | 0.22 | 2.0 | | 0.17 | C |
| 27 | 8 | 54 | 49.7 | 19-48.0 | 155-10.6 | 25.8 | 1.3 | 6 | 220 | 20.1 | 1.06 | 5.4 | 10.8 | 0.13 | D |
| 27 | 10 | 34 | 31.0 | 19-57.3 | 155- 1.9 | 53.4 | 3.0 | 22 | 260 | 33.4 | 0.77 | 3.6 | 5.6 | 0.12 | D |
| 27 | 10 | 47 | 55.5 | 19-58.2 | 155-26.3? | 11.3 | 2.8 | 16 | 191 | 13.4 | 0.22 | 1.8 | 1.7 | 0.17 | C |
| 27 | 11 | 10 | 13.3 | 19-14.3 | 155-11.8? | 0.0* | 2.1 | 16 | 245 | 14.5 | 0.35 | 1.8 | | 0.22 | D |
| 27 | 11 | 39 | 42.9 | 19-25.5 | 155-27.1 | 5.5 | 1.0 | 12 | 106 | 10.3 | 0.08 | 0.7 | 0.9 | 0.13 | B |
| 27 | 13 | 53 | 5.2 | 19-49.6 | 155-10.1? | 37.0 | 1.2 | 11 | 232 | 19.6 | 0.84 | 3.4 | 7.3 | 0.11 | D |
| 27 | 14 | 8 | 40.7 | 19-20.2 | 155-17.6 | 29.6 | 1.0 | 11 | 132 | 0.4 | 0.21 | 1.2 | 2.0 | 0.08 | B |
| 27 | 14 | 14 | 46.2 | 19-59.1 | 155- 0.9 | 58.8 | 2.4 | 16 | 264 | 35.9 | 1.11 | 5.1 | 7.7 | 0.14 | D |
| 27 | 14 | 25 | 12.2 | 19-48.4 | 155-11.9 | 37.1 | 1.6 | 20 | 216 | 17.6 | 0.22 | 1.3 | 2.2 | 0.12 | C |
| 27 | 14 | 26 | 43.1 | 19-58.4 | 155-20.7 | 13.9 | 2.6 | 12 | 205 | 9.2 | 0.11 | 1.0 | 2.1 | 0.09 | C |
| 27 | 14 | 36 | 2.6 | 19-25.1 | 155-15.0 | 16.5 | 0.6 | 12 | 185 | 1.3 | 0.22 | 1.2 | 1.6 | 0.07 | C |
| 27 | 14 | 43 | 27.4 | 19-57.0 | 155- 9.6 | 49.7 | 2.1 | 13 | 237 | 20.4 | 0.74 | 3.5 | 5.9 | 0.14 | D |
| 27 | 15 | 20 | 36.9 | 19-56.5 | 155- 7.1 | 53.4 | | 22 | 246 | 24.2 | 0.85 | 4.0 | 6.5 | 0.18 | D |
| 27 | 16 | 38 | 31.7 | 20- 0.6 | 155-29.6 | 4.1 | 2.2 | 16 | 194 | 20.6 | 0.33 | 2.3 | 1.6 | 0.28 | C |
| 27 | 16 | 49 | 8.7 | 19-57.8 | 154-59.5? | 59.5 | 2.3 | 13 | 265 | 37.6 | 1.30 | 6.1 | 8.7 | 0.12 | D |
| 27 | 17 | 1 | 32.8 | 19-24.4 | 155-16.2 | 3.3 | 0.8 | 6 | 93 | 1.8 | 0.04 | 0.1 | 0.4 | 0.01 | B |
| 27 | 17 | 3 | 12.7 | 19-16.6 | 155-23.4 | 3.7 | 0.4 | 14 | 147 | 6.5 | 0.14 | 0.9 | 1.3 | 0.14 | B |
| 27 | 17 | 33 | 15.7 | 19-55.9 | 155-10.9 | 51.5 | 2.3 | 26 | 219 | 17.4 | 0.48 | 2.1 | 4.2 | 0.15 | C |
| 27 | 17 | 44 | 47.6 | 19-21.8 | 155-18.6 | 23.9 | 0.7 | 10 | 121 | 4.0 | 0.33 | 2.0 | 3.3 | 0.15 | B |
| 27 | 18 | 12 | 55.9 | 19-50.1 | 155-20.6 | 9.5 | 1.2 | 8 | 174 | 6.0 | 0.15 | 3.2 | 4.8 | 0.10 | C |
| 27 | 18 | 30 | 55.2 | 19-55.9 | 155- 6.0 | 45.4 | 2.2 | 15 | 229 | 23.4 | 0.48 | 2.6 | 4.8 | 0.20 | D |
| 27 | 20 | 6 | 29.0 | 19-19.4 | 155-15.3 | 5.6 | 1.3 | 21 | 182 | 3.8 | 0.14 | 0.9 | 0.7 | 0.18 | C |
| 27 | 20 | 25 | 13.6 | 19-57.6 | 155- 3.1? | 53.4 | 2.0 | 20 | 257 | 31.4 | 0.76 | 3.6 | 5.8 | 0.13 | D |
| 27 | 20 | 51 | 33.2 | 19-55.1 | 155-10.5 | 46.6 | 1.8 | 24 | 218 | 17.9 | 0.44 | 2.0 | 3.8 | 0.15 | C |
| 27 | 21 | 22 | 40.7 | 19-57.5 | 155- 2.2 | 53.3 | 1.5 | 11 | 240 | 33.0 | 0.65 | 2.9 | 5.7 | 0.14 | D |
| 27 | 23 | 44 | 8.4 | 19-46.2 | 155-10.5 | 8.0* | 0.8 | 7 | 211 | 22.0 | 0.25 | 1.9 | | 0.14 | C |
| 27 | 23 | 52 | 4.7 | 19-19.2 | 155-15.7 | 5.6 | 0.7 | 18 | 185 | 3.4 | 0.13 | 0.8 | 0.6 | 0.17 | C |
| 28 | 0 | 47 | 58.4 | 19-15.3 | 155-23.7 | 27.7 | 1.0 | 14 | 258 | 9.0 | 0.34 | 2.4 | 2.0 | 0.14 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR 28 | 1 | 20 | 8.5 | 19-43.8 | 155-11.9 | 13.6* | 1.1 | 13 | 191 | 23.2 | 0.23 | 2.2 | | 0.22 | C |
| 28 | 1 | 36 | 13.1 | 19-28.6 | 155-15.4 | 23.1 | 1.8 | 26 | 70 | 5.7 | 0.09 | 0.7 | 1.0 | 0.10 | A |
| 28 | 1 | 43 | 26.9 | 19-46.9 | 155-14.2 | 8.0* | 0.8 | 6 | 192 | 16.3 | 0.21 | 1.8 | | 0.11 | C |
| 28 | 1 | 47 | 42.9 | 19-22.9 | 155-27.2? | 6.3 | 1.3 | 18 | 85 | 8.5 | 0.12 | 1.1 | 2.3 | 0.23 | C |
| 28 | 1 | 52 | 8.2 | 19-56.3 | 155- 6.7 | 54.7 | 2.4 | 19 | 228 | 24.9 | 0.44 | 1.8 | 4.0 | 0.10 | C |
| 28 | 2 | 33 | 27.5 | 19-50.9 | 155-14.5? | 36.7 | 1.7 | 15 | 220 | 11.6 | 1.77 | 6.5 | 12.9 | 0.11 | D |
| 28 | 2 | 37 | 25.7 | 19-53.9 | 155-15.4? | 37.8 | 1.2 | 9 | 251 | 9.1 | 0.29 | 2.4 | 2.3 | 0.11 | C |
| 28 | 2 | 38 | 22.7 | 19-22.6 | 155-22.7 | 4.2 | | 10 | 88 | 4.6 | 0.12 | 0.3 | 1.8 | 0.06 | A |
| 28 | 2 | 49 | 45.2 | 19-18.8 | 155-15.1 | 11.7 | 0.9 | 10 | 201 | 4.8 | 0.16 | 0.6 | 1.4 | 0.06 | B |
| 28 | 2 | 53 | 26.5 | 19-56.4 | 155-10.7 | 48.6 | 1.5 | 22 | 231 | 18.2 | 0.49 | 2.3 | 3.9 | 0.14 | C |
| 28 | 4 | 49 | 31.1 | 19-52.4 | 155-21.1 | 12.7 | 1.6 | 13 | 98 | 2.1 | 0.10 | 1.2 | 0.9 | 0.13 | B |
| 28 | 4 | 50 | 39.0 | 19-46.0 | 155-12.2 | 13.6* | 0.8 | 9 | 200 | 20.0 | 0.39 | 3.7 | | 0.26 | C |
| 28 | 5 | 16 | 41.4 | 19-54.0 | 155- 8.5 | 44.1 | 1.7 | 23 | 233 | 20.7 | 0.26 | 1.7 | 1.9 | 0.17 | C |
| 28 | 6 | 18 | 44.6 | 19-35.5 | 156- 5.8 | 55.7 | 2.1 | 13 | 242 | 43.1 | 0.83 | 3.0 | 7.7 | 0.09 | D |
| 28 | 6 | 20 | 24.1 | 19-56.7 | 155-12.1 | 47.6 | 1.7 | 20 | 226 | 16.0 | 0.51 | 2.5 | 4.1 | 0.15 | C |
| 28 | 7 | 42 | 52.7 | 19-55.9 | 155- 7.0 | 50.0 | 1.9 | 25 | 246 | 23.6 | 0.47 | 2.2 | 3.7 | 0.13 | C |
| 28 | 11 | 31 | 40.8 | 19-56.1 | 155- 7.1 | 51.0* | 1.9 | 11 | 245 | 24.0 | 0.21 | 2.2 | | 0.14 | D |
| 28 | 12 | 7 | 55.9 | 19-55.7 | 155- 5.2 | 52.0 | 3.4 | 27 | 230 | 23.0 | 0.47 | 2.1 | 4.1 | 0.14 | C |
| 28 | 12 | 18 | 46.1 | 19-56.1 | 155-10.8 | 46.2 | 2.0 | 20 | 237 | 17.9 | 0.41 | 2.1 | 3.3 | 0.12 | C |
| 28 | 12 | 40 | 3.1 | 19-46.6 | 155-11.7? | 13.7* | 1.5 | 8 | 206 | 19.9 | 0.29 | 2.8 | | 0.18 | C |
| 28 | 13 | 0 | 13.8 | 19-54.1 | 155-11.6 | 44.4 | 2.3 | 16 | 231 | 15.6 | 0.49 | 2.4 | 4.3 | 0.13 | C |
| 28 | 13 | 3 | 20.7 | 19-23.7 | 155-30.3? | 7.6 | 1.4 | 15 | 91 | 13.8 | 0.11 | 0.9 | 0.9 | 0.17 | C |
| 28 | 13 | 13 | 44.6 | 19-59.0 | 155- 1.0 | 50.7 | 3.2 | 28 | 246 | 30.1 | 0.54 | 2.6 | 4.2 | 0.14 | D |
| 28 | 14 | 4 | 18.0 | 19-24.2 | 155-25.2 | 8.1 | 1.4 | 18 | 82 | 8.1 | 0.07 | 0.5 | 0.5 | 0.11 | B |
| 28 | 14 | 37 | 15.4 | 19-58.1 | 155-12.1 | 54.5 | 2.0 | 16 | 223 | 17.1 | 0.48 | 2.0 | 4.3 | 0.13 | C |
| 28 | 14 | 43 | 8.6 | 20- 0.8 | 155-20.8 | 23.8 | 2.3 | 13 | 226 | 47.1 | 0.28 | 2.4 | 3.3 | 0.12 | C |
| 28 | 14 | 44 | 22.1 | 19-10.9 | 155-14.8 | 45.5 | 2.4 | 18 | 220 | 14.6 | 0.38 | 1.6 | 3.1 | 0.10 | C |
| 28 | 14 | 49 | 49.4 | 20- 0.8 | 155-20.3 | 13.1 | 2.3 | 10 | 228 | 13.7 | 0.29 | 2.4 | 1.1 | 0.09 | C |
| 28 | 15 | 0 | 13.6 | 19-51.0 | 155- 7.5 | 51.0 | 1.8 | 9 | 236 | 23.2 | 0.72 | 3.3 | 6.2 | 0.10 | D |
| 28 | 15 | 37 | 53.3 | 19-27.1 | 155-29.1 | 8.0* | | 14 | 134 | 11.3 | 0.08 | 0.7 | | 0.11 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | 28 | 17 | 11 | 34.7 | 19-20.5 | 155-23.2 | 6.0 | 0.9 | 7 | 158 | 0.6 | 0.51 | 1.6 | 3.2 | 0.09 | C |
| | 28 | 17 | 38 | 8.5 | 19-24.1 | 155-16.0 | 2.3 | 0.7 | 8 | 106 | 2.1 | 0.12 | 0.5 | 0.5 | 0.07 | A |
| | 28 | 20 | 58 | 29.6 | 19-46.9 | 155-14.3 | 8.0* | 1.1 | 5 | 191 | 23.1 | 0.10 | 0.8 | | 0.04 | D |
| | 28 | 21 | 2 | 6.8 | 19-49.7 | 155-11.1? | 40.8 | 2.2 | 25 | 208 | 15.7 | 0.51 | 2.1 | 4.3 | 0.11 | C |
| | 28 | 22 | 20 | 30.4 | 19-37.7 | 156-23.3 | 7.5 | 2.4 | 23 | 276 | 67.5 | 0.41 | 3.8 | 5.2 | 0.16 | D |
| | 28 | 22 | 35 | 57.1 | 19-52.8 | 155- 6.6 | 51.7 | 2.0 | 20 | 242 | 24.5 | 0.52 | 2.6 | 4.0 | 0.12 | D |
| | 28 | 22 | 52 | 17.3 | 19-55.2 | 155- 7.3 | 46.9 | 3.0 | 28 | 224 | 22.4 | 0.42 | 1.9 | 3.5 | 0.14 | C |
| | 28 | 23 | 54 | 51.8 | 19-57.7 | 155- 6.2? | 43.2 | 1.8 | 14 | 268 | 42.2 | 0.43 | 3.9 | 2.2 | 0.13 | D |
| | 29 | 0 | 54 | 17.0 | 19-53.9 | 155-10.0 | 52.6 | 2.1 | 20 | 216 | 18.4 | 0.38 | 1.6 | 3.6 | 0.12 | C |
| | 29 | 1 | 8 | 31.3 | 19-18.6 | 155-15.9 | 5.6 | 1.6 | 22 | 172 | 3.8 | 0.14 | 0.9 | 0.7 | 0.19 | C |
| | 29 | 1 | 57 | 26.8 | 19-56.5 | 155- 4.0 | 52.9* | 2.2 | 17 | 259 | 29.5 | 0.20 | 1.9 | | 0.10 | D |
| | 29 | 1 | 58 | 41.1 | 19-24.1 | 155-15.9 | 0.8* | -0.4 | 8 | 113 | 2.3 | 0.08 | 0.3 | | 0.12 | B |
| | 29 | 2 | 50 | 4.8 | 19-56.6 | 155-22.0 | 12.5 | 2.3 | 12 | 212 | 6.4 | 0.20 | 1.8 | 0.9 | 0.12 | C |
| | 29 | 3 | 25 | 25.7 | 19-57.8 | 155- 6.4 | 15.1* | 2.0 | 21 | 250 | 51.0 | 0.32 | 2.4 | | 0.18 | D |
| | 29 | 3 | 40 | 39.3 | 19-53.7 | 155- 5.5 | 48.3 | 2.4 | 22 | 225 | 26.4 | 0.43 | 1.8 | 4.0 | 0.13 | C |
| | 29 | 3 | 58 | 3.0 | 19-55.3 | 155- 8.6 | 43.8 | 2.2 | 20 | 222 | 21.2 | 0.47 | 2.2 | 4.6 | 0.13 | C |
| | 29 | 4 | 0 | 12.6 | 19-19.6 | 155-12.3 | 3.3 | 2.2 | 27 | 169 | 5.3 | 0.19 | 1.1 | 1.1 | 0.25 | C |
| | 29 | 6 | 8 | 5.7 | 19-24.6 | 155-16.7 | 1.3 | 1.1 | 13 | 95 | 0.7 | 0.06 | 0.3 | 0.3 | 0.11 | B |
| | 29 | 6 | 42 | 10.1 | 19-30.4 | 155-10.6 | 8.1 | 1.6 | 15 | 184 | 12.0 | 0.10 | 0.8 | 0.5 | 0.10 | C |
| | 29 | 7 | 41 | 34.5 | 19-21.0 | 155- 9.4 | 9.3 | 1.5 | 13 | 221 | 2.1 | 0.15 | 1.0 | 1.1 | 0.08 | C |
| | 29 | 8 | 7 | 31.2 | 19-19.5 | 155-15.7? | 6.5 | 1.4 | 12 | 176 | 3.2 | 0.14 | 0.9 | 0.8 | 0.15 | C |
| | 29 | 8 | 29 | 40.2 | 19-51.4 | 155- 5.3 | 55.2 | 1.7 | 15 | 243 | 26.9 | 0.63 | 2.8 | 5.0 | 0.12 | D |
| | 29 | 9 | 0 | 23.6 | 19-57.1 | 155- 5.7 | 56.7 | 2.1 | 14 | 233 | 26.9 | 0.46 | 2.0 | 4.1 | 0.10 | C |
| | 29 | 9 | 15 | 27.2 | 20- 1.8 | 155- 4.1 | 55.5 | 2.1 | 17 | 245 | 58.2 | 0.84 | 3.7 | 7.2 | 0.16 | D |
| | 29 | 9 | 16 | 59.2 | 19-12.3 | 155-27.0 | 6.6 | 2.0 | 25 | 137 | 5.4 | 0.12 | 1.0 | 0.8 | 0.23 | C |
| | 29 | 9 | 20 | 4.1 | 19-23.1 | 155-23.3 | 8.0 | 1.1 | 20 | 61 | 5.3 | 0.07 | 0.6 | 1.5 | 0.15 | B |
| | 29 | 10 | 34 | 37.6 | 19-20.6 | 155-12.7 | 4.5 | 1.3 | 15 | 184 | 3.5 | 0.21 | 1.2 | 1.4 | 0.22 | C |
| | 29 | 13 | 1 | 23.0 | 19-54.7 | 155- 6.7 | 50.6 | 2.3 | 21 | 225 | 21.3 | 0.38 | 1.7 | 3.3 | 0.13 | C |
| | 29 | 15 | 49 | 18.8 | 18-54.0 | 155-19.0 | 14.5* | 2.5 | 25 | 262 | 37.8 | 0.27 | 1.8 | | 0.16 | D |
| | 29 | 16 | 43 | 3.2 | 20- 3.1 | 155-10.0? | 19.8* | 1.8 | 5 | 330 | 25.7 | 3.62 | 29.9 | | 0.54 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | 29 | 16 | 56 | 18.4 | 20- 0.3 | 155-27.2 | 9.3 | 2.3 | 17 | 198 | 17.1 | 0.19 | 1.7 | 1.8 | 0.16 | C |
| | 29 | 19 | 4 | 39.1 | 19-47.0 | 155-13.9 | 13.5* | 1.1 | 12 | 195 | 16.6 | 0.19 | 1.8 | | 0.15 | C |
| | 29 | 19 | 35 | 28.6 | 19-24.0 | 155-15.4 | 2.6 | 0.9 | 8 | 137 | 2.3 | 0.05 | 0.2 | 0.8 | 0.02 | B |
| | 29 | 20 | 33 | 38.8 | 19-48.3 | 155- 9.9 | 14.0* | 1.4 | 6 | 225 | 20.8 | 0.41 | 3.5 | | 0.15 | C |
| | 29 | 21 | 41 | 23.0 | 19-56.3 | 155-11.6 | 49.0 | 2.3 | 14 | 235 | 16.6 | 0.46 | 2.5 | 4.1 | 0.10 | C |
| | 29 | 22 | 10 | 55.4 | 19-12.6 | 155-33.6 | 5.6 | 2.0 | 15 | 135 | 7.5 | 0.22 | 1.6 | 1.3 | 0.23 | C |
| | 29 | 22 | 31 | 54.1 | 19-53.9 | 155- 8.1 | 60.4 | 2.2 | 13 | 239 | 21.8 | 0.68 | 2.8 | 5.6 | 0.09 | D |
| | 29 | 22 | 58 | 55.4 | 19-24.1 | 155-15.8 | 1.6 | 0.4 | 8 | 115 | 2.3 | 0.07 | 0.4 | 0.3 | 0.08 | A |
| | 29 | 23 | 6 | 9.1 | 19-59.1 | 155-33.0 | 2.9 | 2.4 | 11 | 172 | 24.1 | 0.16 | 1.8 | 1.3 | 0.13 | C |
| | 29 | 23 | 10 | 48.8 | 19-10.3 | 155-20.8 | 47.8 | 1.9 | 14 | 197 | 14.6 | 0.56 | 2.1 | 5.5 | 0.11 | C |
| | 29 | 23 | 43 | 3.0 | 19-22.9 | 155-22.0 | 6.6 | 1.0 | 14 | 201 | 6.5 | 0.18 | 1.2 | 0.9 | 0.16 | C |
| | 30 | 1 | 3 | 39.9 | 19-27.4 | 155-17.3? | 8.0* | 1.1 | 9 | 281 | 3.6 | 0.19 | 3.1 | | 0.29 | D |
| | 30 | 1 | 34 | 34.3 | 19-54.8 | 155- 8.6 | 49.1 | 2.1 | 18 | 239 | 21.1 | 0.42 | 2.2 | 3.3 | 0.11 | C |
| | 30 | 2 | 30 | 14.1 | 20- 1.3 | 155-35.9? | 2.5 | 2.3 | 10 | 177 | 22.2 | 0.35 | 4.0 | 2.5 | 0.33 | D |
| | 30 | 2 | 55 | 50.1 | 20-12.5 | 154-59.9 | 84.2* | 2.4 | 12 | 319 | 50.4 | 0.57 | 5.3 | | 0.18 | D |
| | 30 | 3 | 15 | 29.6 | 19-50.1 | 155- 9.1 | 41.8 | 2.0 | 17 | 218 | 14.4 | 0.43 | 1.9 | 3.7 | 0.10 | C |
| | 30 | 3 | 25 | 13.6 | 19-20.8 | 155-29.6 | 9.0 | 1.1 | 16 | 107 | 9.6 | 0.10 | 1.1 | 1.9 | 0.19 | B |
| | 30 | 3 | 52 | 15.5 | 19-45.8 | 155-13.1 | 13.3* | 1.5 | 13 | 193 | 19.2 | 0.19 | 1.9 | | 0.16 | C |
| | 30 | 5 | 10 | 7.6 | 19-56.2 | 155- 6.3 | 46.4 | 2.3 | 10 | 259 | 25.5 | 0.65 | 6.7 | 3.7 | 0.19 | D |
| | 30 | 5 | 13 | 9.7 | 19-54.4 | 155-13.8 | 52.0 | 2.2 | 15 | 225 | 11.9 | 0.38 | 2.0 | 3.4 | 0.09 | C |
| | 30 | 5 | 14 | 31.8 | 19-54.7 | 155- 3.9? | 46.9 | 2.2 | 16 | 252 | 29.2 | 0.73 | 3.5 | 5.8 | 0.13 | D |
| | 30 | 6 | 31 | 27.9 | 19-28.3 | 155-24.7 | 9.4 | 1.3 | 18 | 77 | 3.8 | 0.05 | 0.4 | 0.9 | 0.07 | A |
| | 30 | 6 | 36 | 39.9 | 19-27.7 | 155-24.3 | 7.8 | 2.7 | 27 | 58 | 4.2 | 0.08 | 0.5 | 0.6 | 0.14 | B |
| | 30 | 10 | 17 | 59.1 | 19-53.3 | 155-12.4 | 3.2 | 2.1 | 15 | 226 | 45.1 | 0.48 | 3.2 | 4.6 | 0.16 | D |
| | 30 | 13 | 6 | 59.8 | 19-24.6 | 155-16.7 | 1.0 | 1.2 | 11 | 93 | 0.8 | 0.06 | 0.3 | 0.4 | 0.10 | A |
| | 30 | 17 | 41 | 30.2 | 19-55.6 | 155- 8.0 | 51.9 | | 19 | 243 | 22.2 | 0.53 | 2.5 | 4.1 | 0.13 | D |
| | 30 | 19 | 26 | 57.7 | 20- 2.1 | 155-18.6 | 12.8 | 3.0 | 23 | 222 | 16.4 | 0.26 | 1.6 | 1.5 | 0.14 | C |
| | 30 | 20 | 6 | 2.5 | 19-19.3 | 155-14.1 | 8.0* | | 17 | 196 | 5.9 | 0.08 | 0.5 | | 0.08 | C |
| | 30 | 22 | 4 | 47.6 | 19-56.0 | 155- 8.9 | 57.1 | 2.7 | 17 | 241 | 20.9 | 0.67 | 3.0 | 5.5 | 0.13 | D |
| | 30 | 23 | 0 | 17.3 | 19-24.4 | 155-17.2 | 1.8 | 0.8 | 9 | 81 | 1.1 | 0.03 | 0.2 | 0.1 | 0.04 | A |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 1 | 0 | 57 | 52.4 | 19-57.1 | 155- 9.0 | 48.0 | 2.3 | 23 | 239 | 21.3 | 0.46 | 2.2 | 3.6 | 0.11 | C |
| 1 | 1 | 35 | 16.3 | 19-35.4 | 155-12.4 | 8.0* | 2.2 | 5 | 241 | 18.0 | 1.25 | 9.0 | | 0.22 | D |
| 1 | 1 | 38 | 18.0 | 19-22.4 | 155-24.0 | 5.8 | 1.4 | 10 | 111 | 4.2 | 0.23 | 0.6 | 2.4 | 0.07 | B |
| 1 | 4 | 33 | 44.8 | 19-21.8 | 155-12.6 | 5.5 | 1.6 | 13 | 152 | 1.2 | 0.18 | 0.7 | 1.6 | 0.14 | C |
| 1 | 4 | 52 | 9.4 | 19-26.9 | 155-27.1 | 8.0* | 1.9 | 9 | 224 | 8.2 | 0.27 | 1.7 | | 0.13 | C |
| 1 | 6 | 14 | 37.3 | 19-49.8 | 155- 8.3 | 43.9 | 1.6 | 22 | 255 | 13.3 | 0.83 | 3.6 | 5.9 | 0.12 | D |
| 1 | 8 | 47 | 53.2 | 19-47.6 | 154-55.5 | 45.9 | 2.2 | 17 | 280 | 18.9 | 0.43 | 2.6 | 3.9 | 0.16 | D |
| 1 | 16 | 14 | 8.8 | 19-55.4 | 155- 4.2 | 53.7 | 3.1 | 24 | 232 | 22.6 | 0.68 | 2.9 | 5.6 | 0.19 | D |
| 1 | 17 | 51 | 36.3 | 19-50.1 | 155-48.9 | 13.7* | 2.6 | 18 | 178 | 16.5 | 0.13 | 1.1 | | 0.16 | C |
| 1 | 23 | 52 | 2.2 | 19-51.8 | 155- 7.3? | 41.4 | 2.9 | 23 | 233 | 16.2 | 0.47 | 2.1 | 3.8 | 0.12 | C |
| 2 | 0 | 27 | 47.8 | 19-21.1 | 155-12.5 | 8.0 | 1.6 | 18 | 174 | 2.6 | 0.08 | 0.6 | 0.3 | 0.10 | C |
| 2 | 0 | 45 | 1.7 | 19-18.7 | 155-15.6 | 11.1 | | 12 | 196 | 4.1 | 0.12 | 0.5 | 1.1 | 0.05 | B |
| 2 | 4 | 15 | 19.9 | 19-20.4 | 155- 8.0 | 3.3 | 1.8 | 19 | 234 | 4.4 | 0.33 | 1.7 | 1.1 | 0.20 | D |
| 2 | 7 | 6 | 40.8 | 19-53.8 | 155- 7.8 | 54.8 | 2.1 | 22 | 220 | 20.1 | 0.45 | 1.9 | 3.9 | 0.14 | C |
| 2 | 16 | 7 | 32.0 | 19-19.6 | 155-16.0 | 8.6 | | 10 | 218 | 2.6 | 0.20 | 1.2 | 1.5 | 0.07 | C |
| 2 | 16 | 41 | 36.5 | 19-57.9 | 155- 3.5 | 54.9 | 1.8 | 17 | 258 | 27.3 | 1.10 | 4.7 | 9.3 | 0.14 | D |
| 2 | 22 | 0 | 52.9 | 19-22.9 | 155-22.5 | 8.0* | | 9 | 88 | 5.1 | 0.05 | 0.5 | | 0.08 | B |
| 3 | 2 | 12 | 10.7 | 19-24.1 | 155-15.6 | 2.1* | | 6 | 126 | 2.6 | 0.05 | 0.4 | | 0.05 | C |
| 3 | 3 | 14 | 49.7 | 19-51.6 | 155- 3.2 | 56.0 | 1.7 | 23 | 250 | 15.9 | 0.65 | 2.9 | 4.8 | 0.13 | D |
| 3 | 4 | 44 | 48.6 | 19-20.3 | 155-17.9 | 5.6 | 1.5 | 17 | 80 | 1.0 | 0.09 | 0.8 | 0.5 | 0.15 | B |
| 3 | 5 | 19 | 35.3 | 19-21.1 | 155-14.3 | 11.1 | | 10 | 185 | 3.7 | 0.19 | 0.7 | 1.5 | 0.06 | B |
| 3 | 8 | 54 | 34.8 | 19-18.7 | 155-13.3 | 8.0* | | 7 | 218 | 7.6 | 0.21 | 1.4 | | 0.11 | C |
| 3 | 13 | 30 | 36.9 | 20- 1.9 | 155-25.1 | 12.9 | 2.7 | 13 | 221 | 17.6 | 0.31 | 3.2 | 2.0 | 0.14 | C |
| 3 | 13 | 35 | 14.3 | 19-49.8 | 155- 8.8? | 69.1* | | 12 | 230 | 21.7 | 0.37 | 5.4 | | 0.27 | D |
| 3 | 13 | 57 | 12.2 | 19-46.7 | 155- 7.9 | 14.9* | 2.1 | 21 | 228 | 25.4 | 0.34 | 2.6 | | 0.26 | D |
| 3 | 15 | 13 | 31.6 | 19-22.3 | 155-26.7 | 8.3 | 2.4 | 24 | 57 | 1.6 | 0.05 | 0.5 | 0.9 | 0.14 | B |
| 3 | 15 | 19 | 58.0 | 20-12.6 | 155-38.2 | 10.1 | | 16 | 299 | 46.9 | 1.50 | 9.9 | 5.6 | 0.16 | D |
| 3 | 16 | 41 | 45.9 | 19-52.6 | 155-20.9 | 18.5 | 2.1 | 19 | 101 | 1.7 | 0.12 | 0.9 | 1.5 | 0.10 | B |
| 3 | 16 | 42 | 10.8 | 19-54.4 | 155-15.9 | 6.6 | 2.1 | 11 | 219 | 47.1 | 0.36 | 1.8 | 3.1 | 0.09 | C |
| 3 | 20 | 42 | 21.9 | 19-51.3 | 155-10.8 | 41.7 | 1.8 | 12 | 239 | 17.5 | 0.21 | 1.5 | 2.4 | 0.08 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 3 | 21 | 40 | 9.9 | 19-57.6 | 155-17.7 | 14.6 | 2.0 | 9 | 224 | 9.3 | 0.26 | 2.3 | 3.0 | 0.11 | C |
| 3 | 22 | 6 | 37.1 | 19-18.4 | 155-14.6 | 10.1 | 1.1 | 12 | 212 | 5.8 | 0.24 | 1.1 | 2.2 | 0.09 | C |
| 3 | 22 | 16 | 8.9 | 19-54.6 | 155-21.8? | 8.0* | 1.5 | 8 | 290 | 17.4 | 2.01 | 12.5 | | 0.21 | D |
| 4 | 3 | 15 | 39.4 | 19-21.4 | 155-23.3 | 6.8 | 1.1 | 13 | 80 | 2.2 | 0.06 | 0.5 | 0.5 | 0.10 | A |
| 4 | 4 | 50 | 53.8 | 19-56.6 | 155- 7.9 | 49.9 | | 23 | 227 | 22.9 | 0.63 | 2.8 | 5.8 | 0.18 | D |
| 4 | 6 | 32 | 53.3 | 19-20.9 | 155- 8.5 | 9.3 | 0.5 | 11 | 227 | 3.2 | 0.14 | 1.0 | 1.0 | 0.06 | C |
| 4 | 6 | 34 | 1.9 | 19-55.6 | 155- 8.4 | 54.1 | 1.3 | 14 | 241 | 37.0 | 0.80 | 3.3 | 7.5 | 0.14 | D |
| 4 | 9 | 1 | 0.6 | 19-20.5 | 155-11.3 | 9.4 | | 14 | 209 | 4.0 | 0.22 | 1.2 | 2.0 | 0.09 | C |
| 4 | 9 | 12 | 52.7 | 19-50.3 | 155- 6.0 | 44.1 | 1.8 | 23 | 251 | 26.1 | 0.68 | 3.0 | 5.0 | 0.10 | D |
| 4 | 12 | 19 | 29.4 | 19-11.3 | 155- 7.0? | 19.3* | | 9 | 291 | 24.4 | 0.85 | 6.5 | | 0.13 | D |
| 4 | 14 | 53 | 9.3 | 19-23.3 | 155- 5.4? | 0.0 | 2.4 | 19 | 238 | 8.1 | 5.25 | 2.1 | 9.5 | 0.21 | D |
| 4 | 16 | 41 | 29.9 | 19-22.2 | 155-23.5 | 7.1 | | 13 | 77 | 3.7 | 0.06 | 0.5 | 0.6 | 0.11 | B |
| 4 | 18 | 37 | 36.0 | 19-25.9 | 155-26.0 | 8.0* | | 16 | 85 | 6.9 | 0.04 | 0.3 | | 0.06 | B |
| 4 | 20 | 35 | 38.6 | 19-56.1 | 155- 4.8 | 49.0 | 2.7 | 23 | 232 | 28.0 | 0.44 | 2.0 | 3.8 | 0.14 | C |
| 4 | 22 | 12 | 36.0 | 19-22.5 | 155-23.2? | 7.3 | | 13 | 80 | 4.3 | 0.09 | 0.9 | 2.0 | 0.15 | B |
| 5 | 4 | 47 | 14.8 | 19-19.8 | 155-14.9 | 30.6 | | 8 | 255 | 11.3 | 0.63 | 2.9 | 4.9 | 0.08 | D |
| 5 | 6 | 13 | 13.4 | 19-59.6 | 155-19.2 | 16.0 | 2.6 | 14 | 226 | 11.7 | 0.24 | 2.1 | 2.9 | 0.12 | C |
| 5 | 6 | 20 | 10.8 | 19-45.0 | 155- 8.9 | 12.8* | | 15 | 215 | 25.6 | 0.24 | 2.0 | | 0.18 | C |
| 5 | 7 | 12 | 10.8 | 19-18.7 | 155-14.1 | 15.9 | 0.3 | 10 | 219 | 7.5 | 0.62 | 4.3 | 5.6 | 0.22 | C |
| 5 | 7 | 14 | 27.8 | 19-21.7 | 155-12.1 | 3.3 | 1.7 | 9 | 116 | 16.5 | 0.16 | 1.3 | 2.6 | 0.19 | C |
| 5 | 7 | 15 | 2.8 | 19-22.3 | 155-12.0? | 15.5 | 2.1 | 6 | 157 | 9.9 | 1.56 | 8.4 | 20.3 | 0.25 | D |
| 5 | 7 | 16 | 9.9 | 19-21.4 | 155-13.2 | 8.0* | 1.5 | 9 | 124 | 7.7 | 0.08 | 0.9 | | 0.12 | C |
| 5 | 7 | 16 | 26.7 | 19-19.9 | 155-12.5 | 14.5 | 1.8 | 8 | 152 | 9.2 | 0.22 | 1.7 | 3.2 | 0.13 | C |
| 5 | 7 | 20 | 34.8 | 19-23.1 | 155-13.1? | 4.0 | 1.0 | 11 | 106 | 9.3 | 0.12 | 1.0 | 1.9 | 0.15 | B |
| 5 | 7 | 24 | 5.8 | 19-21.9 | 155-12.9? | 1.3 | 1.8 | 13 | 113 | 5.3 | 1.73 | 0.6 | 3.3 | 0.12 | B |
| 5 | 7 | 27 | 51.2 | 19-22.1 | 155-13.2 | 1.4 | 1.3 | 8 | 118 | 9.6 | 2.67 | 0.9 | 10.2 | 0.10 | C |
| 5 | 7 | 29 | 17.6 | 19-21.3 | 155-13.5? | 1.0 | 2.5 | 21 | 101 | 8.6 | 0.11 | 0.8 | 1.2 | 0.24 | C |
| 5 | 7 | 33 | 18.1 | 19-22.6 | 155-12.9 | 5.1 | 1.7 | 13 | 102 | 7.2 | 0.09 | 0.8 | 1.2 | 0.15 | B |
| 5 | 7 | 33 | 48.3 | 19-20.6 | 155-14.1? | 0.0 | 2.4 | 12 | 110 | 9.5 | 9.15 | 1.5 | 17.4 | 0.30 | C |
| 5 | 7 | 35 | 54.3 | 19-22.1 | 155-11.4 | 5.6 | 2.0 | 12 | 105 | 9.8 | 0.12 | 1.0 | 1.4 | 0.19 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 5 | 7 | 38 | 26.5 | 19-21.2 | 155-13.9? | 0.0 | 2.0 | 14 | 108 | 8.7 | 7.36 | 1.0 | 14.0 | 0.21 | C |
| 5 | 7 | 39 | 52.7 | 19-22.3 | 155-11.5 | 4.6 | 1.8 | 13 | 103 | 2.1 | 0.10 | 0.8 | 1.2 | 0.16 | B |
| 5 | 7 | 42 | 42.1 | 19-22.8 | 155-11.5 | 3.5 | 1.4 | 14 | 101 | 2.2 | 0.11 | 0.7 | 2.0 | 0.17 | B |
| 5 | 7 | 44 | 13.1 | 19-22.4 | 155-13.4 | 5.4 | 1.8 | 19 | 94 | 4.4 | 0.06 | 0.4 | 0.6 | 0.12 | B |
| 5 | 7 | 44 | 51.7 | 19-21.2 | 155-13.7 | 1.7 | 1.3 | 14 | 156 | 3.0 | 0.15 | 0.5 | 0.5 | 0.09 | B |
| 5 | 7 | 47 | 12.8 | 19-22.9 | 155-13.8 | 4.5 | 1.3 | 11 | 120 | 2.1 | 0.30 | 1.1 | 2.8 | 0.14 | B |
| 5 | 7 | 49 | 27.6 | 19-21.6 | 155-12.7 | 2.5 | 1.7 | 13 | 157 | 1.6 | 0.11 | 0.8 | 2.1 | 0.14 | C |
| 5 | 7 | 53 | 35.4 | 19-22.0 | 155-11.8 | 1.3 |  | 7 | 162 | 1.7 | 0.17 | 1.1 | 0.7 | 0.11 | C |
| 5 | 8 | 0 | 34.0 | 19-22.9 | 155-14.6 | 1.6 |  | 5 | 124 | 2.4 |  |  |  | 0.12 | D |
| 5 | 8 | 2 | 40.1 | 19-22.0 | 155-14.4 | 1.7 | 1.2 | 14 | 149 | 2.8 | 0.19 | 0.9 | 0.7 | 0.18 | B |
| 5 | 8 | 3 | 59.6 | 19-22.4 | 155-14.4 | 4.2 | 1.2 | 10 | 136 | 2.7 | 0.17 | 0.7 | 1.6 | 0.09 | B |
| 5 | 8 | 5 | 22.4 | 19-23.6 | 155-13.0 | 2.9 | 1.2 | 7 | 112 | 9.6 | 0.22 | 1.9 | 2.4 | 0.18 | B |
| 5 | 8 | 5 | 52.6 | 19-23.3 | 155-15.0 | 1.4 |  | 8 | 101 | 2.3 | 0.08 | 0.4 | 0.4 | 0.08 | A |
| 5 | 8 | 6 | 3.5 | 19-22.5 | 155-13.9 | 4.6 | 1.3 | 13 | 138 | 2.1 | 0.19 | 0.8 | 2.0 | 0.16 | B |
| 5 | 8 | 7 | 19.4 | 19-22.6 | 155-14.0 | 5.6 | 1.6 | 14 | 125 | 2.4 | 0.10 | 0.6 | 0.7 | 0.11 | B |
| 5 | 8 | 10 | 42.4 | 19-21.6 | 155-12.4 | 5.7 | 1.5 | 11 | 208 | 6.2 | 0.17 | 1.1 | 0.8 | 0.10 | C |
| 5 | 8 | 13 | 7.4 | 19-22.3 | 155-14.1 | 3.0 |  | 9 | 142 | 2.6 | 0.23 | 0.8 | 3.2 | 0.12 | B |
| 5 | 8 | 14 | 8.6 | 19-22.3 | 155-13.8 | 4.9 |  | 9 | 142 | 2.1 | 0.33 | 1.0 | 2.5 | 0.10 | B |
| 5 | 8 | 15 | 21.3 | 19-22.3 | 155-14.0 | 1.9 |  | 12 | 132 | 2.4 | 0.19 | 0.8 | 1.0 | 0.13 | B |
| 5 | 8 | 17 | 33.6 | 19-22.1 | 155-13.1 | 3.8 |  | 7 | 142 | 4.9 | 0.14 | 0.5 | 1.7 | 0.05 | B |
| 5 | 8 | 26 | 2.1 | 19-22.2 | 155-13.3? | 1.7 |  | 9 | 138 | 4.6 | 0.27 | 0.8 | 1.1 | 0.15 | B |
| 5 | 8 | 28 | 34.6 | 19-22.1 | 155-13.2 | 3.6 |  | 6 | 154 | 1.1 | 0.31 | 1.5 | 3.4 | 0.09 | C |
| 5 | 8 | 40 | 3.1 | 19-22.3 | 155-14.2? | 0.7 | 1.2 | 9 | 140 | 2.7 | 0.18 | 0.8 | 2.6 | 0.13 | B |
| 5 | 8 | 40 | 28.7 | 19-23.1 | 155-14.3 | 1.7 | 1.1 | 10 | 113 | 3.0 | 0.03 | 0.2 | 0.2 | 0.04 | A |
| 5 | 8 | 41 | 8.6 | 19-22.5 | 155-13.8 | 5.8 | 1.6 | 14 | 129 | 1.9 | 0.10 | 0.5 | 0.6 | 0.09 | B |
| 5 | 8 | 44 | 5.3 | 19-23.3 | 155-14.9 | 1.7 | 1.3 | 13 | 100 | 2.5 | 0.07 | 0.3 | 0.3 | 0.08 | B |
| 5 | 8 | 44 | 16.6 | 19-22.5 | 155-13.0 | 3.8 | 1.9 | 12 | 103 | 0.7 | 0.08 | 0.6 | 1.0 | 0.15 | B |
| 5 | 8 | 49 | 52.0 | 19-22.9 | 155-14.1 | 5.9 | 1.3 | 15 | 114 | 2.7 | 0.12 | 0.4 | 1.0 | 0.08 | A |
| 5 | 8 | 51 | 2.6 | 19-22.2 | 155-12.9 | 2.0 | 1.3 | 6 | 139 | 0.6 | 0.06 | 0.5 | 0.3 | 0.04 | B |
| 5 | 8 | 51 | 12.9 | 19-22.2 | 155-14.3 | 1.1 | 1.5 | 9 | 153 | 2.8 | 0.11 | 0.6 | 0.5 | 0.10 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 5 | 8 | 58 | 22.4 | 19-22.3 | 155-14.0 | 5.8 | 1.6 | 15 | 132 | 2.4 | 0.06 | 0.5 | 0.4 | 0.09 | B |
| 5 | 9 | 4 | 42.2 | 19-22.6 | 155-14.1 | 1.1 | 1.2 | 8 | 135 | 2.6 | 0.10 | 0.4 | 0.4 | 0.09 | B |
| 5 | 9 | 11 | 20.3 | 19-22.8 | 155-14.1 | 1.1 | 1.1 | 10 | 120 | 2.6 | 0.10 | 0.4 | 0.5 | 0.08 | A |
| 5 | 9 | 16 | 53.0 | 19-22.6 | 155-14.3 | 1.1 | 1.4 | 15 | 133 | 2.8 | 0.07 | 0.3 | 0.3 | 0.08 | B |
| 5 | 9 | 21 | 49.8 | 19-22.5 | 155-13.3 | 4.5 | 1.3 | 9 | 114 | 1.2 | 0.13 | 0.7 | 1.5 | 0.10 | A |
| 5 | 9 | 23 | 55.4 | 19-23.0 | 155-14.4 | 1.3 | 1.1 | 11 | 112 | 2.8 | 0.07 | 0.4 | 0.4 | 0.09 | A |
| 5 | 9 | 25 | 30.0 | 19-22.7 | 155-14.1 | 0.9 | 1.6 | 11 | 131 | 2.5 | 0.14 | 0.6 | 0.6 | 0.15 | B |
| 5 | 9 | 30 | 26.3 | 19-22.3 | 155-14.0 | 1.6 | 1.7 | 18 | 123 | 2.3 | 0.10 | 0.4 | 0.4 | 0.11 | B |
| 5 | 9 | 32 | 25.2 | 19-22.8 | 155-14.5? | 0.3 | 3.2 | 21 | 114 | 3.3 | 0.35 | 0.4 | 0.7 | 0.15 | B |
| 5 | 9 | 44 | 16.1 | 19-22.4 | 155-14.2 | 1.3 | 1.2 | 9 | 130 | 2.7 | 0.08 | 0.4 | 0.4 | 0.06 | B |
| 5 | 9 | 48 | 7.3 | 19-21.9 | 155-12.6 | 4.2 | 1.7 | 15 | 99 | 1.0 | 0.07 | 0.4 | 1.0 | 0.10 | A |
| 5 | 9 | 50 | 17.8 | 19-22.2 | 155-13.4 | 4.2 | 1.6 | 16 | 127 | 1.4 | 0.09 | 0.6 | 1.2 | 0.15 | B |
| 5 | 9 | 55 | 10.3 | 19-22.8 | 155-14.6 | 1.1 | 1.4 | 12 | 116 | 2.5 | 0.08 | 0.4 | 0.4 | 0.10 | B |
| 5 | 9 | 57 | 17.7 | 19-22.7 | 155-14.0 | 1.4 | 1.5 | 11 | 124 | 2.4 | 0.13 | 0.6 | 0.5 | 0.14 | B |
| 5 | 10 | 1 | 30.9 | 19-22.7 | 155-14.8 | 1.2 | 3.0 | 25 | 88 | 2.1 | 0.12 | 0.5 | 0.5 | 0.15 | B |
| 5 | 10 | 7 | 28.6 | 19-53.7 | 155- 2.5 | 52.6 | 3.8 | 28 | 214 | 20.0 | 0.34 | 1.7 | 3.0 | 0.14 | C |
| 5 | 10 | 11 | 18.3 | 19-21.8 | 155-14.3 | 0.9 | 3.4 | 26 | 99 | 3.0 | 0.15 | 0.4 | 0.6 | 0.15 | B |
| 5 | 10 | 21 | 17.9 | 19-22.5 | 155-12.9 | 3.0 | 1.3 | 7 | 132 | 0.5 | 0.38 | 2.2 | 4.2 | 0.19 | B |
| 5 | 10 | 36 | 28.9 | 19-22.7 | 155-14.3 | 1.9 | 1.6 | 13 | 121 | 2.9 | 0.08 | 0.4 | 0.3 | 0.08 | B |
| 5 | 10 | 41 | 55.0 | 19-22.2 | 155-14.5? | 0.7 | 3.2 | 24 | 95 | 4.7 | 0.49 | 0.6 | 0.9 | 0.21 | B |
| 5 | 10 | 45 | 16.4 | 19-22.8 | 155-14.7 | 1.4 | 1.6 | 15 | 119 | 2.2 | 0.09 | 0.4 | 0.4 | 0.10 | A |
| 5 | 10 | 56 | 13.9 | 19-21.9 | 155-14.2? | 0.0 | 2.7 | 22 | 100 | 2.9 | 0.42 | 0.6 | 0.8 | 0.19 | B |
| 5 | 11 | 9 | 18.7 | 19-21.9 | 155-14.1? | 0.0 | 2.0 | 18 | 126 | 5.1 | 1.91 | 0.6 | 3.6 | 0.16 | B |
| 5 | 11 | 15 | 12.6 | 19-22.5 | 155-14.4 | 2.8 | 2.8 | 15 | 91 | 4.0 | 0.09 | 0.7 | 3.3 | 0.21 | B |
| 5 | 11 | 21 | 44.3 | 19-22.0 | 155-14.0 | 4.0 | 1.9 | 15 | 127 | 5.0 | 0.08 | 0.5 | 1.4 | 0.11 | B |
| 5 | 11 | 25 | 20.2 | 19-22.6 | 155-14.8? | 5.4 | | 9 | 123 | 3.9 | 0.13 | 0.7 | 1.1 | 0.09 | B |
| 5 | 11 | 25 | 43.8 | 19-21.4 | 155-13.3? | 0.4 | 1.6 | 12 | 157 | 6.1 | 3.25 | 1.0 | 6.2 | 0.17 | C |
| 5 | 11 | 27 | 43.5 | 19-21.9 | 155-14.3 | 1.2 | 3.2 | 26 | 99 | 5.1 | 0.20 | 0.5 | 0.8 | 0.19 | B |
| 5 | 11 | 34 | 53.8 | 19-22.3 | 155-14.2 | 1.9 | 2.1 | 11 | 141 | 4.4 | 2.20 | 0.5 | 8.4 | 0.08 | C |
| 5 | 11 | 38 | 51.5 | 19-22.4 | 155-15.1 | 2.0 | 1.7 | 11 | 123 | 4.2 | 0.26 | 0.9 | 1.0 | 0.19 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 5 | 11 | 40 | 20.7 | 19-22.3 | 155-14.8 | 1.5 | 1.6 | 15 | 127 | 3.8 | 0.11 | 0.4 | 0.4 | 0.11 | B |
| 5 | 11 | 40 | 50.9 | 19-22.2 | 155-14.7? | 0.0 | 3.1 | 15 | 98 | 3.5 | 1.09 | 0.5 | 2.1 | 0.17 | B |
| 5 | 11 | 44 | 33.8 | 19-22.2 | 155-14.1 | 1.4 | 1.6 | 18 | 95 | 2.6 | 0.13 | 0.4 | 0.6 | 0.12 | B |
| 5 | 11 | 49 | 17.4 | 19-21.6 | 155-14.0? | 0.1 | 1.8 | 16 | 147 | 2.8 | 1.94 | 0.8 | 3.8 | 0.21 | C |
| 5 | 11 | 59 | 0.4 | 19-22.3 | 155-14.6? | 0.2 | 2.6 | 20 | 93 | 3.4 | 1.71 | 0.6 | 3.3 | 0.20 | B |
| 5 | 12 | 3 | 10.9 | 19-22.0 | 155-14.6? | 0.4 | 1.9 | 20 | 122 | 2.3 | 0.56 | 0.8 | 1.0 | 0.25 | C |
| 5 | 12 | 4 | 28.8 | 19-22.1 | 155-14.4 | 4.8 | 1.9 | 13 | 107 | 4.8 | 0.13 | 0.6 | 2.0 | 0.14 | B |
| 5 | 12 | 13 | 29.5 | 19-22.1 | 155-14.8 | 2.0 |  | 16 | 141 | 3.8 | 0.15 | 0.4 | 0.5 | 0.11 | B |
| 5 | 12 | 14 | 13.6 | 19-21.9 | 155-14.4? | 0.0 | 2.7 | 11 | 119 | 14.0 | 0.30 | 1.3 | 19.6 | 0.23 | C |
| 5 | 12 | 18 | 56.9 | 19-21.9 | 155-14.7? | 1.9 | 1.6 | 14 | 135 | 5.2 | 0.07 | 0.5 | 1.3 | 0.11 | B |
| 5 | 12 | 21 | 1.6 | 19-22.2 | 155-14.2 | 1.6 |  | 10 | 143 | 2.8 | 0.20 | 0.7 | 0.9 | 0.10 | B |
| 5 | 12 | 21 | 45.7 | 19-21.9 | 155-14.6? | 1.9 | 2.0 | 13 | 156 | 6.9 | 0.07 | 0.5 | 1.3 | 0.10 | C |
| 5 | 12 | 25 | 53.0 | 19-22.4 | 155-14.9 | 1.7 | 2.1 | 12 | 124 | 1.7 | 0.13 | 0.6 | 0.5 | 0.14 | B |
| 5 | 12 | 26 | 8.4 | 19-22.1 | 155-14.6 | 1.1 | 2.6 | 17 | 98 | 4.8 | 0.18 | 0.5 | 0.7 | 0.15 | B |
| 5 | 12 | 27 | 53.5 | 19-22.0 | 155-14.2? | 0.0 | 2.1 | 9 | 137 | 3.0 | 0.83 | 1.2 | 1.4 | 0.19 | B |
| 5 | 12 | 28 | 59.4 | 19-22.0 | 155-14.3 | 1.6 | 1.7 | 9 | 148 | 3.0 | 0.07 | 0.2 | 0.2 | 0.03 | B |
| 5 | 12 | 30 | 55.7 | 19-22.6 | 155-14.9 | 1.6 | 1.6 | 11 | 121 | 1.7 | 0.09 | 0.5 | 0.4 | 0.09 | B |
| 5 | 12 | 36 | 47.7 | 19-22.3 | 155-14.7 | 1.2 |  | 9 | 129 | 2.1 | 0.12 | 0.5 | 0.5 | 0.10 | B |
| 5 | 12 | 40 | 3.0 | 19-22.3 | 155-15.1 | 0.2 | 2.8 | 19 | 92 | 1.4 | 0.41 | 0.7 | 0.8 | 0.28 | B |
| 5 | 12 | 43 | 37.5 | 19-22.3 | 155-14.7 | 1.4 |  | 11 | 128 | 2.1 | 0.08 | 0.4 | 0.3 | 0.09 | B |
| 5 | 12 | 44 | 14.6 | 19-22.3 | 155-14.7 | 1.6 | 1.7 | 15 | 128 | 2.1 | 0.10 | 0.5 | 0.4 | 0.13 | B |
| 5 | 12 | 45 | 44.8 | 19-22.1 | 155-14.9 | 1.6 | 1.6 | 15 | 131 | 1.9 | 0.07 | 0.3 | 0.3 | 0.08 | B |
| 5 | 12 | 48 | 17.0 | 19-22.3 | 155-15.0 | 1.6 | 1.4 | 10 | 125 | 1.5 | 0.15 | 0.6 | 0.5 | 0.11 | B |
| 5 | 12 | 48 | 40.0 | 19-22.4 | 155-14.9 | 1.7 | 1.7 | 12 | 124 | 1.7 | 0.13 | 0.5 | 0.4 | 0.10 | B |
| 5 | 12 | 50 | 53.3 | 19-22.5 | 155-14.9 | 1.9 | 1.4 | 15 | 121 | 1.7 | 0.11 | 0.4 | 0.4 | 0.09 | B |
| 5 | 12 | 53 | 53.4 | 19-21.8 | 155-14.5? | 0.4 | 3.0 | 21 | 101 | 3.5 | 0.31 | 0.4 | 0.6 | 0.15 | B |
| 5 | 12 | 57 | 8.1 | 19-22.3 | 155-15.0 | 1.2 | 1.4 | 10 | 126 | 1.5 | 0.09 | 0.4 | 0.4 | 0.10 | B |
| 5 | 12 | 59 | 38.0 | 19-22.9 | 155-14.6? | 1.4 | 2.5 | 10 | 121 | 2.4 | 0.10 | 0.4 | 0.5 | 0.10 | B |
| 5 | 13 | 1 | 40.3 | 19-21.9 | 155-14.6 | 0.1 | 2.3 | 17 | 124 | 2.4 | 0.33 | 0.5 | 0.6 | 0.16 | B |
| 5 | 13 | 2 | 58.4 | 19-19.4 | 155-13.0? | 8.0* | 1.9 | 9 | 142 | 5.7 | 0.23 | 2.1 |  | 0.31 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 5 | 13 | 6 | 20.5 | 19-22.3 | 155-14.3 | 1.4 | 1.5 | 8 | 130 | 2.7 | 0.17 | 0.6 | 0.6 | 0.07 | B |
| 5 | 13 | 8 | 40.1 | 19-22.2 | 155-14.7 | 1.3 | 1.7 | 8 | 140 | 2.1 | 0.16 | 0.5 | 0.5 | 0.06 | B |
| 5 | 13 | 11 | 28.3 | 19-22.5 | 155-14.9 | 1.8 | 1.6 | 9 | 123 | 1.8 | 0.17 | 0.7 | 0.6 | 0.10 | B |
| 5 | 13 | 13 | 11.3 | 19-22.1 | 155-14.7 | 0.7 | 1.6 | 11 | 132 | 4.8 | 1.30 | 0.6 | 2.5 | 0.12 | B |
| 5 | 13 | 16 | 32.7 | 19-22.7 | 155-14.8 | 1.5 | 1.8 | 9 | 119 | 2.0 | 0.05 | 0.3 | 0.2 | 0.04 | A |
| 5 | 13 | 21 | 31.2 | 19-22.2 | 155-14.6 | 1.9 | 1.5 | 11 | 139 | 2.3 | 0.18 | 0.7 | 0.6 | 0.12 | B |
| 5 | 13 | 27 | 46.2 | 19-22.3 | 155-14.9 | 0.4 | 1.6 | 15 | 100 | 1.7 | 1.06 | 0.4 | 2.1 | 0.12 | B |
| 5 | 13 | 32 | 15.1 | 19-22.2 | 155-14.9 | 1.2 | 1.9 | 14 | 127 | 1.7 | 0.19 | 0.6 | 0.6 | 0.13 | B |
| 5 | 13 | 37 | 20.4 | 19-22.2 | 155-14.6 | 1.3 | 2.1 | 17 | 120 | 2.3 | 0.11 | 0.3 | 0.4 | 0.09 | B |
| 5 | 13 | 39 | 29.2 | 19-22.2 | 155-14.6 | 0.9 | 1.6 | 10 | 130 | 2.4 | 0.16 | 0.5 | 0.6 | 0.10 | B |
| 5 | 13 | 42 | 25.7 | 19-22.3 | 155-14.7 | 1.2 | 1.6 | 10 | 128 | 2.2 | 0.17 | 0.6 | 0.6 | 0.11 | B |
| 5 | 13 | 44 | 43.4 | 19-22.5 | 155-14.6 | 1.5 | 2.0 | 15 | 117 | 2.3 | 0.10 | 0.4 | 0.3 | 0.09 | B |
| 5 | 13 | 59 | 18.8 | 19-22.5 | 155-14.6 | 1.3 | 1.6 | 12 | 124 | 2.3 | 0.10 | 0.3 | 0.3 | 0.07 | B |
| 5 | 14 | 14 | 5.3 | 19-24.9 | 155-17.6? | 0.9 | 1.1 | 12 | 119 | 1.1 | 0.25 | 0.5 | 0.5 | 0.17 | B |
| 5 | 14 | 18 | 56.3 | 19-22.1 | 155-14.8 | 1.4 | 1.4 | 8 | 131 | 2.0 | 0.27 | 1.0 | 0.9 | 0.12 | B |
| 5 | 14 | 31 | 20.0 | 19-24.5 | 155-17.4 | 1.2 | 1.6 | 11 | 63 | 1.1 | 0.06 | 0.3 | 0.4 | 0.11 | B |
| 5 | 14 | 33 | 12.9 | 19-22.3 | 155-16.1 | 1.2 |  | 8 | 149 | 0.4 | 0.05 | 0.4 | 0.3 | 0.05 | B |
| 5 | 14 | 34 | 23.9 | 19-22.2 | 155-16.1 | 1.3 | 1.3 | 12 | 119 | 0.5 | 0.03 | 0.2 | 0.1 | 0.04 | A |
| 5 | 14 | 35 | 47.9 | 19-21.9 | 155-15.4 | 1.4 | 1.4 | 14 | 128 | 1.2 | 0.11 | 0.4 | 0.3 | 0.09 | B |
| 5 | 14 | 36 | 40.6 | 19-22.1 | 155-16.1 | 1.7 | 1.3 | 10 | 120 | 0.6 | 0.11 | 0.6 | 0.4 | 0.10 | A |
| 5 | 14 | 43 | 34.4 | 19-22.1 | 155-16.2 | 1.3 | 1.3 | 10 | 119 | 0.8 | 0.07 | 0.3 | 0.3 | 0.09 | A |
| 5 | 14 | 44 | 26.7 | 19-22.0 | 155-15.7 | 1.7 |  | 18 | 92 | 0.8 | 0.09 | 0.3 | 0.3 | 0.10 | B |
| 5 | 14 | 45 | 25.0 | 19-22.3 | 155-15.7 | 1.6 | 1.3 | 7 | 185 | 0.4 | 0.16 | 1.0 | 0.4 | 0.09 | B |
| 5 | 14 | 47 | 14.2 | 19-22.5 | 155-15.7 | 1.0 | 1.7 | 12 | 116 | 0.5 | 0.09 | 0.5 | 0.3 | 0.12 | B |
| 5 | 14 | 47 | 53.2 | 19-22.1 | 155-15.4 | 1.6 | 1.9 | 12 | 131 | 0.9 | 0.15 | 0.7 | 0.5 | 0.11 | B |
| 5 | 14 | 48 | 47.5 | 19-22.0 | 155-16.2 | 1.3 | 1.6 | 10 | 173 | 0.9 | 0.19 | 1.2 | 0.9 | 0.22 | C |
| 5 | 14 | 49 | 41.9 | 19-21.9 | 155-15.6 | 2.2 | 1.8 | 11 | 103 | 4.6 | 0.09 | 0.4 | 6.0 | 0.08 | B |
| 5 | 14 | 51 | 20.4 | 19-22.5 | 155-14.6 | 1.7 | 1.7 | 12 | 125 | 2.2 | 0.11 | 0.4 | 0.4 | 0.07 | B |
| 5 | 14 | 56 | 10.6 | 19-22.1 | 155-15.8 | 1.5 | 1.6 | 13 | 122 | 0.5 | 0.08 | 0.4 | 0.2 | 0.07 | B |
| 5 | 14 | 57 | 26.1 | 19-22.1 | 155-15.7 | 1.0 | 1.4 | 8 | 188 | 0.7 | 0.09 | 0.4 | 0.3 | 0.06 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | 5 | 14 | 58 24.8 | 19-22.1 | 155-16.3 | 1.4 | 1.3 | 7 | 117 | 0.9 | 0.06 | 0.4 | 0.3 | 0.06 | B |
| | 5 | 15 | 0 3.9 | 19-22.3 | 155-15.9 | 1.6 | 1.5 | 11 | 179 | 0.1 | 0.15 | 0.9 | 0.5 | 0.15 | C |
| | 5 | 15 | 0 49.5 | 19-24.6 | 155-17.3? | 0.9 | 1.4 | 10 | 71 | 0.7 | 0.18 | 0.5 | 0.4 | 0.13 | B |
| | 5 | 15 | 4 19.5 | 19-22.0 | 155-15.7 | 2.0 | 1.4 | 10 | 125 | 0.8 | 0.09 | 0.5 | 0.3 | 0.07 | B |
| | 5 | 15 | 6 57.6 | 19-24.4 | 155-16.2 | 1.5 | 1.5 | 8 | 117 | 1.8 | 0.10 | 0.6 | 0.5 | 0.10 | A |
| | 5 | 15 | 8 28.3 | 19-22.7 | 155-15.6? | 2.5 | 1.3 | 5 | 213 | 0.8 | | | | 0.21 | D |
| | 5 | 15 | 9 9.3 | 19-22.1 | 155-15.8 | 1.8 | 1.5 | 11 | 122 | 0.5 | 0.09 | 0.4 | 0.3 | 0.08 | B |
| | 5 | 15 | 12 48.6 | 19-22.2 | 155-16.3 | 1.5 | 1.3 | 9 | 114 | 0.8 | 0.11 | 0.7 | 0.5 | 0.12 | B |
| | 5 | 15 | 18 43.4 | 19-22.0 | 155-15.4 | 1.5 | 1.4 | 10 | 196 | 1.1 | 0.20 | 0.7 | 0.5 | 0.11 | C |
| | 5 | 15 | 25 7.5 | 19-22.2 | 155-15.6 | 1.5 | 1.5 | 16 | 91 | 0.7 | 0.08 | 0.3 | 0.3 | 0.09 | A |
| | 5 | 15 | 32 24.7 | 19-21.9 | 155-15.4 | 1.2 | 1.4 | 11 | 130 | 1.2 | 0.11 | 0.4 | 0.4 | 0.09 | B |
| | 5 | 15 | 33 25.6 | 19-22.0 | 155-15.6 | 1.6 | 1.4 | 12 | 126 | 0.9 | 0.10 | 0.4 | 0.3 | 0.10 | B |
| | 5 | 15 | 35 0.6 | 19-22.6 | 155-14.8 | 1.5 | 1.1 | 8 | 122 | 2.0 | 0.12 | 0.5 | 0.5 | 0.08 | B |
| | 5 | 15 | 44 25.0 | 19-22.0 | 155-15.3 | 1.2 | 1.4 | 10 | 129 | 1.3 | 0.15 | 0.5 | 0.5 | 0.12 | B |
| | 5 | 15 | 46 48.0 | 19-22.4 | 155-14.7 | 1.2 | 1.4 | 12 | 125 | 2.1 | 0.13 | 0.5 | 0.4 | 0.09 | B |
| | 5 | 15 | 53 30.1 | 19-21.8 | 155-15.6 | 1.1 | 1.6 | 10 | 128 | 1.1 | 0.15 | 0.6 | 0.5 | 0.10 | B |
| | 5 | 15 | 54 9.6 | 19-21.8 | 155-15.3 | 1.1 | 1.4 | 10 | 132 | 1.5 | 0.09 | 0.3 | 0.3 | 0.09 | B |
| | 5 | 16 | 2 28.7 | 19-22.3 | 155-15.8 | 1.5 | 1.0 | 6 | 120 | 0.3 | 0.06 | 0.4 | 0.2 | 0.03 | B |
| | 5 | 16 | 7 49.7 | 19-22.1 | 155-15.8 | 0.8 | 1.1 | 8 | 123 | 0.7 | 0.09 | 0.4 | 0.4 | 0.08 | B |
| | 5 | 16 | 15 37.5 | 19-21.8 | 155-15.5 | 0.8 | 1.4 | 7 | 131 | 1.3 | 0.06 | 0.3 | 0.2 | 0.04 | B |
| | 5 | 16 | 18 39.1 | 19-24.8 | 155-17.1? | 2.6 | 0.8 | 7 | 135 | 0.2 | 0.63 | 1.7 | 3.7 | 0.12 | B |
| | 5 | 16 | 33 10.1 | 19-21.8 | 155-15.4 | 1.3 | 1.7 | 14 | 131 | 1.4 | 0.10 | 0.4 | 0.4 | 0.10 | B |
| | 5 | 16 | 34 30.8 | 19-21.6 | 155-15.3 | 0.9 | 1.8 | 14 | 136 | 1.8 | 0.19 | 0.6 | 0.6 | 0.14 | B |
| | 5 | 16 | 39 56.6 | 19-21.8 | 155-15.7 | 0.9 | 1.4 | 10 | 130 | 1.3 | 0.23 | 0.8 | 0.9 | 0.16 | B |
| | 5 | 16 | 57 39.6 | 19-21.7 | 155-15.5 | 1.1 | 1.6 | 16 | 133 | 1.5 | 0.12 | 0.4 | 0.4 | 0.11 | B |
| | 5 | 17 | 4 30.0 | 19-21.8 | 155-15.5 | 1.2 | 1.6 | 15 | 95 | 1.3 | 0.13 | 0.5 | 0.5 | 0.13 | B |
| | 5 | 17 | 15 16.1 | 19-22.3 | 155-16.0 | 1.1 | 1.3 | 9 | 118 | 0.3 | 0.08 | 0.6 | 0.3 | 0.11 | B |
| | 5 | 17 | 53 47.7 | 19-21.9 | 155-15.8 | 1.3 | 1.4 | 11 | 189 | 1.0 | 0.16 | 0.8 | 0.4 | 0.10 | B |
| | 5 | 17 | 55 22.5 | 19-22.0 | 155-15.7 | 1.5 | 1.4 | 14 | 124 | 0.7 | 0.11 | 0.4 | 0.3 | 0.11 | B |
| | 5 | 17 | 56 47.2 | 19-22.1 | 155-15.7 | 1.2 | 1.5 | 17 | 124 | 0.6 | 0.10 | 0.4 | 0.3 | 0.11 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 5 | 17 | 58 | 7.3 | 19-22.0 | 155-15.7 | 1.6 | 1.4 | 13 | 124 | 0.8 | 0.09 | 0.4 | 0.3 | 0.09 | B |
| 5 | 17 | 59 | 23.4 | 19-21.7 | 155-15.8 | 1.5 | 1.6 | 16 | 129 | 1.3 | 0.11 | 0.4 | 0.3 | 0.11 | B |
| 5 | 18 | 0 | 16.4 | 19-22.0 | 155-15.8 | 1.1 | 1.1 | 8 | 185 | 0.7 | 0.14 | 0.7 | 0.4 | 0.09 | B |
| 5 | 18 | 7 | 0.9 | 19-21.7 | 155-15.9 | 1.3 | 1.6 | 14 | 129 | 1.3 | 0.09 | 0.4 | 0.3 | 0.09 | B |
| 5 | 18 | 7 | 45.5 | 19-21.8 | 155-16.1 | 1.8 | 1.7 | 13 | 125 | 1.2 | 0.13 | 0.6 | 0.5 | 0.13 | B |
| 5 | 18 | 14 | 3.0 | 19-21.7 | 155-16.4 | 1.5 | 1.1 | 9 | 123 | 1.5 | 0.12 | 0.7 | 0.5 | 0.11 | B |
| 5 | 18 | 14 | 23.8 | 19-21.8 | 155-16.2 | 1.0 | 1.7 | 15 | 124 | 1.3 | 0.10 | 0.4 | 0.4 | 0.13 | B |
| 5 | 18 | 34 | 37.9 | 19-21.6 | 155-15.9 | 1.2 | 1.6 | 15 | 130 | 3.8 | 0.19 | 0.6 | 0.7 | 0.14 | C |
| 5 | 18 | 38 | 49.7 | 19-22.1 | 155-16.1 | 1.8 | 1.1 | 6 | 179 | 0.7 | 0.09 | 0.6 | 0.4 | 0.05 | B |
| 5 | 18 | 39 | 57.9 | 19-21.7 | 155-16.2 | 1.8 | 1.8 | 17 | 124 | 5.3 | 0.21 | 0.6 | 0.8 | 0.17 | C |
| 5 | 18 | 42 | 51.3 | 19-21.9 | 155-16.3 | 1.6 | 1.7 | 16 | 122 | 1.2 | 0.11 | 0.6 | 0.5 | 0.15 | C |
| 5 | 18 | 44 | 30.8 | 19-21.9 | 155-16.4 | 1.3 | 1.0 | 11 | 119 | 1.3 | 0.06 | 0.4 | 0.3 | 0.08 | A |
| 5 | 18 | 48 | 18.4 | 19-21.4 | 155-16.5 | 1.6 | 1.4 | 13 | 127 | 2.9 | 0.22 | 0.7 | 1.0 | 0.14 | C |
| 5 | 18 | 49 | 3.0 | 19-21.7 | 155-15.9 | 1.6 | 1.7 | 15 | 129 | 1.4 | 0.07 | 0.3 | 0.3 | 0.10 | B |
| 5 | 18 | 49 | 44.5 | 19-21.8 | 155-16.1 | 1.3 | 1.4 | 12 | 125 | 1.2 | 0.07 | 0.3 | 0.3 | 0.07 | B |
| 5 | 18 | 52 | 20.6 | 19-22.5 | 155-16.8? | 5.8 | 1.2 | 15 | 73 | 2.9 | 0.16 | 1.0 | 1.6 | 0.23 | C |
| 5 | 18 | 54 | 45.1 | 19-22.2 | 155-16.6? | 0.9 | 1.4 | 17 | 78 | 4.1 | 0.21 | 0.7 | 0.9 | 0.19 | B |
| 5 | 18 | 57 | 22.6 | 19-21.5 | 155-16.0 | 4.2 | 1.8 | 15 | 131 | 3.5 | 0.09 | 0.4 | 1.2 | 0.10 | B |
| 5 | 19 | 0 | 37.4 | 19-21.9 | 155-16.7 | 1.1 | 1.3 | 7 | 147 | 1.7 | 0.03 | 0.2 | 0.2 | 0.02 | B |
| 5 | 19 | 1 | 34.2 | 19-21.7 | 155-16.3 | 1.4 | 1.6 | 13 | 125 | 1.5 | 0.11 | 0.6 | 0.5 | 0.11 | B |
| 5 | 19 | 14 | 55.7 | 19-24.6 | 155-16.1 | 0.7* | 1.0 | 5 | 128 | 1.8 | 0.07 | 0.3 |  | 0.05 | C |
| 5 | 19 | 34 | 1.1 | 19-21.7 | 155-16.5 | 1.3 | 1.1 | 12 | 122 | 3.2 | 0.07 | 0.3 | 0.3 | 0.08 | B |
| 5 | 19 | 42 | 21.9 | 19-21.8 | 155-17.0 | 0.9 |  | 6 | 132 | 2.3 | 0.22 | 1.0 | 1.3 | 0.08 | B |
| 5 | 19 | 53 | 21.5 | 19-21.8 | 155-16.9 | 0.4 |  | 8 | 113 | 3.3 | 0.31 | 0.5 | 0.7 | 0.10 | A |
| 5 | 20 | 40 | 34.1 | 19-21.6 | 155-16.4 | 1.3 | 1.9 | 17 | 124 | 1.7 | 0.12 | 0.5 | 0.4 | 0.13 | C |
| 5 | 20 | 48 | 37.4 | 19-21.9 | 155-16.4 | 1.3 |  | 4 | 165 | 1.4 |  |  |  | 0.00 | D |
| 5 | 20 | 56 | 24.9 | 19-22.2 | 155-16.7? | 0.9 |  | 5 | 126 | 1.4 |  |  |  | 0.08 | D |
| 5 | 21 | 16 | 7.4 | 19-24.3 | 155-16.8 | 2.2 | 1.3 | 13 | 59 | 1.1 | 0.04 | 0.3 | 0.2 | 0.08 | A |
| 5 | 21 | 37 | 27.1 | 19-21.6 | 155-16.5 | 1.2 | 1.9 | 21 | 123 | 1.9 | 0.12 | 0.4 | 0.4 | 0.14 | C |
| 5 | 21 | 48 | 32.1 | 19-21.5 | 155-17.2 | 1.7 | 1.1 | 7 | 168 | 2.7 | 0.09 | 0.5 | 0.4 | 0.06 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | 5 | 21 | 53 2.7 | 19-21.9 | 155-16.2 | 1.4 | | 7 | 179 | 1.1 | 0.10 | 0.5 | 0.4 | 0.08 | B |
| | 5 | 22 | 37 4.5 | 19-21.5 | 155-16.5 | 1.4 | 1.1 | 10 | 177 | 1.9 | 0.09 | 0.5 | 0.4 | 0.11 | C |
| | 5 | 22 | 40 44.3 | 19-21.7 | 155-16.7 | 1.3 | 1.1 | 8 | 155 | 1.9 | 0.13 | 0.7 | 0.6 | 0.13 | C |
| | 5 | 22 | 49 48.0 | 19-21.6 | 155-16.9 | 1.3 | 1.6 | 18 | 113 | 2.3 | 0.07 | 0.3 | 0.3 | 0.11 | B |
| | 5 | 22 | 54 42.2 | 19-21.5 | 155-16.9 | 1.2 | 1.4 | 20 | 115 | 2.4 | 0.09 | 0.4 | 0.4 | 0.13 | B |
| | 5 | 23 | 0 14.3 | 19-21.7 | 155-17.0 | 1.4 | 1.1 | 14 | 108 | 2.3 | 0.05 | 0.2 | 0.2 | 0.07 | A |
| | 5 | 23 | 0 29.3 | 19-55.8 | 155- 5.9 | 46.6 | 3.8 | 24 | 208 | 23.2 | 0.24 | 1.3 | 2.4 | 0.12 | C |
| | 5 | 23 | 3 28.4 | 19-21.6 | 155-17.1 | 1.3 | 1.1 | 11 | 103 | 2.6 | 0.06 | 0.3 | 0.3 | 0.07 | A |
| | 5 | 23 | 5 26.2 | 19-21.5 | 155-17.0 | 1.4 | 1.4 | 14 | 110 | 2.7 | 0.06 | 0.3 | 0.2 | 0.08 | A |
| | 5 | 23 | 6 27.1 | 19-21.6 | 155-16.9 | 1.4 | 1.4 | 17 | 112 | 2.2 | 0.06 | 0.2 | 0.2 | 0.10 | A |
| | 5 | 23 | 7 7.0 | 19-21.6 | 155-17.0 | 1.3 | 1.7 | 20 | 79 | 2.4 | 0.11 | 0.4 | 0.4 | 0.14 | B |
| | 5 | 23 | 9 48.9 | 19-21.5 | 155-16.8 | 1.3 | 1.4 | 19 | 118 | 2.3 | 0.11 | 0.4 | 0.4 | 0.15 | B |
| | 5 | 23 | 11 8.8 | 19-21.5 | 155-17.0 | 1.6 | 1.4 | 14 | 110 | 2.7 | 0.05 | 0.2 | 0.2 | 0.08 | A |
| | 5 | 23 | 15 1.4 | 19-21.5 | 155-16.9? | 0.7 | 1.1 | 11 | 121 | 2.7 | 0.30 | 0.8 | 2.5 | 0.14 | B |
| | 5 | 23 | 15 56.8 | 19-21.5 | 155-16.7 | 1.5 | 1.4 | 18 | 121 | 2.2 | 0.06 | 0.3 | 0.2 | 0.10 | B |
| | 5 | 23 | 17 0.9 | 19-21.5 | 155-16.7? | 0.6 | 1.1 | 10 | 121 | 2.1 | 0.20 | 0.7 | 1.9 | 0.13 | B |
| | 5 | 23 | 18 16.2 | 19-21.8 | 155-17.2? | 0.0 | 1.0 | 7 | 123 | 2.6 | 0.33 | 0.5 | 0.8 | 0.10 | B |
| | 5 | 23 | 18 27.8 | 19-21.5 | 155-17.0 | 1.6 | 1.6 | 14 | 108 | 2.6 | 0.09 | 0.4 | 0.4 | 0.11 | B |
| | 5 | 23 | 21 3.5 | 19-21.6 | 155-17.2 | 1.7 | 1.1 | 13 | 100 | 2.7 | 0.04 | 0.2 | 0.2 | 0.07 | A |
| | 5 | 23 | 21 41.4 | 19-21.6 | 155-17.1 | 1.3 | 1.1 | 13 | 103 | 2.8 | 0.08 | 0.4 | 0.3 | 0.11 | B |
| | 5 | 23 | 22 54.2 | 19-21.5 | 155-16.9 | 1.5 | 1.1 | 12 | 120 | 2.4 | 0.09 | 0.3 | 0.3 | 0.07 | A |
| | 5 | 23 | 23 50.9 | 19-21.5 | 155-16.9 | 1.6 | 1.1 | 11 | 115 | 2.4 | 0.04 | 0.2 | 0.2 | 0.06 | A |
| | 5 | 23 | 26 24.0 | 19-21.5 | 155-16.9 | 1.4 | 1.6 | 16 | 114 | 2.4 | 0.06 | 0.2 | 0.2 | 0.08 | A |
| | 5 | 23 | 28 8.8 | 19-21.3 | 155-17.0 | 1.2 | 1.1 | 13 | 114 | 2.7 | 0.08 | 0.3 | 0.3 | 0.09 | A |
| | 5 | 23 | 29 59.7 | 19-21.5 | 155-17.1 | 1.5 | 1.1 | 9 | 113 | 2.6 | 0.04 | 0.2 | 0.2 | 0.05 | A |
| | 5 | 23 | 31 30.4 | 19-21.6 | 155-17.0 | 1.4 | 1.4 | 16 | 109 | 2.5 | 0.06 | 0.3 | 0.3 | 0.10 | A |
| | 5 | 23 | 32 6.7 | 19-21.6 | 155-17.0 | 1.6 | 1.4 | 10 | 115 | 2.5 | 0.08 | 0.5 | 0.4 | 0.09 | B |
| | 5 | 23 | 33 40.0 | 19-21.5 | 155-17.0 | 1.5 | 1.1 | 14 | 110 | 2.5 | 0.05 | 0.2 | 0.2 | 0.06 | A |
| | 5 | 23 | 35 24.0 | 19-21.7 | 155-16.9 | 1.3 | 1.4 | 11 | 118 | 2.1 | 0.07 | 0.4 | 0.3 | 0.09 | A |
| | 5 | 23 | 39 23.1 | 19-21.5 | 155-16.9 | 1.2 | 1.4 | 18 | 115 | 2.4 | 0.15 | 0.6 | 0.6 | 0.16 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 5 | 23 | 41 | 6.7 | 19-21.4 | 155-17.0 | 1.8 | 1.4 | 15 | 114 | 2.4 | 0.13 | 0.6 | 0.5 | 0.16 | B |
| 5 | 23 | 44 | 31.6 | 19-21.6 | 155-17.1 | 1.4 | 1.4 | 14 | 104 | 2.6 | 0.05 | 0.2 | 0.2 | 0.08 | A |
| 5 | 23 | 45 | 30.6 | 19-21.6 | 155-17.1 | 1.7 | 1.1 | 10 | 139 | 2.6 | 0.06 | 0.4 | 0.4 | 0.08 | B |
| 5 | 23 | 46 | 17.9 | 19-21.6 | 155-17.0 | 1.3 | 1.6 | 17 | 109 | 2.5 | 0.10 | 0.4 | 0.4 | 0.13 | B |
| 5 | 23 | 47 | 22.1 | 19-21.6 | 155-17.1 | 1.3 | 1.1 | 12 | 103 | 2.6 | 0.06 | 0.3 | 0.3 | 0.09 | A |
| 5 | 23 | 48 | 30.6 | 19-21.6 | 155-17.1 | 1.4 | 1.4 | 15 | 103 | 2.7 | 0.05 | 0.2 | 0.2 | 0.08 | A |
| 5 | 23 | 49 | 7.5 | 19-21.3 | 155-17.1 | 1.4 | 1.4 | 17 | 111 | 2.3 | 0.08 | 0.4 | 0.3 | 0.13 | B |
| 5 | 23 | 54 | 2.8 | 19-21.5 | 155-17.8 | 1.3 | 1.1 | 10 | 86 | 2.6 | 0.12 | 0.5 | 0.6 | 0.14 | B |
| 5 | 23 | 57 | 17.2 | 19-21.5 | 155-17.2 | 1.6 | 1.4 | 16 | 103 | 2.7 | 0.06 | 0.3 | 0.2 | 0.09 | A |
| 5 | 23 | 58 | 1.4 | 19-21.5 | 155-17.1 | 1.7 | 1.4 | 14 | 108 | 2.6 | 0.06 | 0.3 | 0.3 | 0.10 | A |
| 6 | 0 | 0 | 12.1 | 19-21.6 | 155-17.2 | 1.4 | 1.1 | 14 | 100 | 2.7 | 0.05 | 0.2 | 0.2 | 0.07 | A |
| 6 | 0 | 0 | 49.3 | 19-21.1 | 155-17.6 | 3.0 | | 6 | 115 | 2.0 | 0.23 | 0.8 | 3.1 | 0.06 | B |
| 6 | 0 | 2 | 2.1 | 19-21.5 | 155-17.8 | 1.3 | 1.1 | 9 | 104 | 2.7 | 0.10 | 0.5 | 0.5 | 0.08 | A |
| 6 | 0 | 9 | 43.6 | 19-21.5 | 155-17.0 | 1.7 | | 8 | 146 | 2.6 | 0.09 | 0.5 | 0.4 | 0.11 | B |
| 6 | 0 | 10 | 9.4 | 19-21.3 | 155-17.1 | 1.3 | 2.3 | 17 | 110 | 2.3 | 0.08 | 0.3 | 0.3 | 0.11 | B |
| 6 | 0 | 15 | 38.4 | 19-21.6 | 155-17.3 | 1.6 | 1.1 | 9 | 124 | 2.8 | 0.05 | 0.3 | 0.3 | 0.07 | B |
| 6 | 0 | 19 | 56.4 | 19-21.5 | 155-17.1 | 1.3 | 1.1 | 16 | 107 | 2.6 | 0.07 | 0.3 | 0.3 | 0.11 | B |
| 6 | 0 | 23 | 54.9 | 19-21.5 | 155-17.1 | 1.4 | 1.4 | 17 | 108 | 2.6 | 0.05 | 0.2 | 0.2 | 0.08 | A |
| 6 | 0 | 26 | 8.7 | 19-21.4 | 155-16.5 | 1.4 | 3.1 | 28 | 94 | 2.1 | 0.13 | 0.5 | 0.5 | 0.19 | B |
| 6 | 0 | 34 | 1.9 | 19-21.3 | 155-17.4 | 0.9 | 1.1 | 15 | 95 | 2.3 | 0.10 | 0.4 | 0.5 | 0.12 | B |
| 6 | 0 | 38 | 57.4 | 19-21.4 | 155-17.2 | 1.3 | 1.4 | 12 | 111 | 2.3 | 0.07 | 0.3 | 0.3 | 0.08 | A |
| 6 | 0 | 43 | 17.0 | 19-21.5 | 155-17.1 | 1.5 | 1.7 | 17 | 105 | 2.6 | 0.05 | 0.2 | 0.2 | 0.08 | A |
| 6 | 0 | 47 | 23.9 | 19-21.6 | 155-17.3 | 1.4 | 1.4 | 14 | 99 | 2.8 | 0.05 | 0.2 | 0.2 | 0.08 | A |
| 6 | 0 | 53 | 4.5 | 19-21.6 | 155-17.3 | 1.4 | 1.1 | 12 | 105 | 2.7 | 0.06 | 0.3 | 0.3 | 0.09 | A |
| 6 | 1 | 7 | 33.6 | 19-21.5 | 155-17.3 | 1.5 | 1.7 | 20 | 100 | 2.6 | 0.07 | 0.3 | 0.3 | 0.12 | B |
| 6 | 1 | 21 | 26.3 | 19-21.4 | 155-17.3 | 1.4 | 1.8 | 18 | 101 | 2.4 | 0.06 | 0.2 | 0.2 | 0.10 | A |
| 6 | 1 | 32 | 29.8 | 19-21.5 | 155-17.3 | 1.5 | 1.4 | 15 | 99 | 2.6 | 0.06 | 0.3 | 0.2 | 0.09 | A |
| 6 | 1 | 40 | 5.3 | 19-21.4 | 155-17.3 | 1.4 | 1.7 | 16 | 99 | 2.5 | 0.06 | 0.3 | 0.3 | 0.10 | A |
| 6 | 1 | 46 | 28.1 | 19-21.6 | 155-17.3 | 1.4 | 1.1 | 13 | 100 | 2.8 | 0.06 | 0.3 | 0.3 | 0.10 | A |
| 6 | 1 | 47 | 45.9 | 19-21.7 | 155-16.2 | 1.3 | | 7 | 181 | 1.4 | 0.14 | 0.6 | 0.5 | 0.11 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 6 | 2 | 22 | 24.9 | 19-22.1 | 155-16.7 | 1.1 | | 6 | 130 | 1.5 | 0.05 | 0.2 | 0.3 | 0.03 | B |
| 6 | 2 | 23 | 14.2 | 19-21.4 | 155-17.2 | 1.6 | 1.8 | 19 | 105 | 2.4 | 0.07 | 0.3 | 0.3 | 0.12 | B |
| 6 | 3 | 10 | 20.4 | 19-21.7 | 155-16.2 | 1.3 | | 8 | 180 | 1.3 | 0.11 | 0.6 | 0.4 | 0.10 | B |
| 6 | 3 | 47 | 44.3 | 19-21.9 | 155-16.5 | 1.1 | | 7 | 156 | 1.4 | 0.10 | 0.5 | 0.5 | 0.08 | B |
| 6 | 4 | 20 | 5.9 | 19-21.8 | 155-16.3 | 1.2 | | 9 | 177 | 1.3 | 0.11 | 0.5 | 0.4 | 0.10 | B |
| 6 | 5 | 0 | 30.6 | 19-21.7 | 155-16.2 | 1.4 | | 9 | 181 | 1.4 | 0.12 | 0.6 | 0.4 | 0.12 | C |
| 6 | 5 | 14 | 58.1 | 19-21.1 | 155-16.8 | 1.8 | 1.5 | 12 | 127 | 2.2 | 0.09 | 0.5 | 0.4 | 0.12 | B |
| 6 | 5 | 49 | 45.4 | 19-24.3 | 155-17.1 | 2.1 | | 7 | 82 | 1.1 | 0.06 | 0.3 | 1.3 | 0.05 | B |
| 6 | 5 | 55 | 8.3 | 19-21.7 | 155-16.0 | 1.3 | | 9 | 128 | 1.3 | 0.09 | 0.4 | 0.3 | 0.08 | B |
| 6 | 6 | 10 | 22.1 | 19-24.5 | 155-16.1 | 1.5 | 1.2 | 12 | 75 | 1.7 | 0.04 | 0.2 | 0.2 | 0.08 | A |
| 6 | 6 | 34 | 30.1 | 19-21.6 | 155-16.1 | 1.3 | | 8 | 184 | 1.5 | 0.13 | 0.6 | 0.5 | 0.11 | C |
| 6 | 7 | 31 | 5.2 | 19-21.9 | 155-16.5 | 1.3 | | 7 | 159 | 1.4 | 0.10 | 0.6 | 0.5 | 0.09 | B |
| 6 | 9 | 11 | 43.6 | 19-16.7 | 155-13.5 | 12.9 | 0.7 | 12 | 209 | 9.2 | 0.08 | 0.7 | 0.5 | 0.06 | B |
| 6 | 18 | 7 | 35.9 | 19-53.6 | 155- 7.0 | 52.7 | 3.4 | 29 | 203 | 19.4 | 0.33 | 1.6 | 3.0 | 0.13 | C |
| 6 | 20 | 18 | 10.1 | 19-21.7 | 155-16.1 | 1.4 | | 6 | 140 | 1.4 | 0.12 | 0.8 | 0.5 | 0.07 | B |
| 6 | 22 | 8 | 19.1 | 19-23.9 | 155-28.0 | 11.0 | 2.1 | 17 | 91 | 2.6 | 0.06 | 0.6 | 0.8 | 0.12 | B |
| 7 | 1 | 0 | 29.9 | 19-20.5 | 155- 1.7? | 0.0 | 2.1 | 20 | 217 | 14.6 | 5.24 | 1.8 | 9.6 | 0.23 | C |
| 7 | 1 | 6 | 59.8 | 19-21.6 | 155- 2.0 | 3.1 | | 13 | 209 | 13.8 | 0.24 | 1.5 | 1.1 | 0.17 | C |
| 7 | 2 | 43 | 5.3 | 19-53.5 | 155-47.0 | 31.4 | | 19 | 166 | 23.3 | 0.20 | 0.9 | 2.5 | 0.09 | C |
| 7 | 4 | 13 | 52.3 | 19-20.8 | 155-16.3 | 25.0 | 2.4 | 23 | 140 | 2.3 | 0.16 | 1.0 | 1.4 | 0.13 | B |
| 7 | 17 | 20 | 11.3 | 19-54.3 | 155- 7.9 | 53.4 | 3.5 | 28 | 203 | 21.0 | 0.30 | 1.5 | 2.9 | 0.15 | C |
| 8 | 2 | 54 | 6.1 | 19-55.2 | 155- 9.9 | 44.1 | 3.5 | 29 | 219 | 19.0 | 0.89 | 4.2 | 8.1 | 0.21 | D |
| 8 | 13 | 49 | 41.4 | 19-23.4 | 154-54.8 | 3.1 | 2.9 | 20 | 244 | 10.5 | 0.28 | 1.5 | 1.0 | 0.13 | C |
| 8 | 15 | 41 | 49.9 | 19-18.6 | 155-14.8 | 8.0* | | 15 | 181 | 5.3 | 0.19 | 1.3 | | 0.17 | D |
| 8 | 22 | 7 | 31.1 | 19-22.9 | 155-14.3 | 6.2 | | 9 | 121 | 2.9 | 0.29 | 0.9 | 2.2 | 0.12 | B |
| 9 | 1 | 58 | 40.5 | 19-55.4 | 155- 7.7 | 48.2 | | 24 | 225 | 22.8 | 0.47 | 2.1 | 4.1 | 0.15 | C |
| 9 | 8 | 30 | 22.7 | 19-52.5 | 155-10.8 | 51.4 | | 12 | 247 | 17.2 | 1.74 | 5.1 | 14.7 | 0.06 | D |
| 9 | 14 | 19 | 10.1 | 19-46.8 | 155-11.0? | 30.8* | 2.9 | 12 | 211 | 20.7 | 0.13 | 1.3 | | 0.10 | C |
| 9 | 15 | 41 | 44.8 | 19-47.9 | 155-20.9 | 31.0 | 2.9 | 24 | 122 | 10.2 | 0.18 | 0.9 | 2.2 | 0.12 | B |
| 9 | 17 | 19 | 38.3 | 19-19.0 | 155-13.0 | 8.0* | 1.6 | 8 | 214 | 7.9 | 0.21 | 1.7 | | 0.12 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 9 | 19 | 10 | 37.4 | 19-58.6 | 155- 4.4 | 50.6 | 1.6 | 20 | 256 | 29.9 | 0.64 | 3.1 | 4.8 | 0.12 | D |
| 9 | 21 | 12 | 51.3 | 19-24.3 | 155-15.9 | 15.9 | 2.9 | 28 | 59 | 2.2 | 0.06 | 0.6 | 0.8 | 0.12 | B |
| 9 | 21 | 59 | 3.3 | 19-22.3 | 155-25.5? | 7.4 | 2.1 | 19 | 55 | 3.7 | 0.05 | 0.5 | 0.4 | 0.10 | B |
| 10 | 0 | 1 | 43.1 | 19-24.0 | 155-17.9? | 0.7 | | 11 | 91 | 1.1 | 0.28 | 1.8 | 3.8 | 0.39 | C |
| 10 | 1 | 55 | 2.2 | 19-50.7 | 155- 7.5 | 50.1 | 1.8 | 22 | 213 | 14.3 | 0.46 | 2.0 | 4.2 | 0.17 | C |
| 10 | 6 | 52 | 8.5 | 19-50.5 | 155- 6.6 | 41.3 | 3.1 | 22 | 228 | 13.6 | 0.43 | 1.7 | 3.6 | 0.10 | C |
| 10 | 12 | 56 | 57.6 | 20- 0.9 | 155-49.0 | 8.0* | 1.3 | 17 | 282 | 45.7 | 0.74 | 4.7 | | 0.16 | D |
| 11 | 0 | 21 | 47.8 | 19-23.9 | 155-17.0 | 11.9 | 0.8 | 16 | 74 | 1.8 | 0.06 | 0.5 | 0.5 | 0.08 | A |
| 11 | 4 | 12 | 57.3 | 19-57.5 | 155- 7.3 | 50.4 | 1.7 | 25 | 248 | 24.4 | 0.54 | 2.6 | 4.3 | 0.12 | D |
| 11 | 4 | 36 | 26.8 | 19-25.9 | 155-26.1 | 8.0* | 1.5 | 11 | 193 | 6.9 | 0.09 | 0.6 | | 0.07 | C |
| 11 | 5 | 3 | 22.8 | 19-23.5 | 155-13.9 | 10.7 | 1.5 | 9 | 127 | 2.3 | 0.49 | 1.9 | 4.1 | 0.17 | B |
| 11 | 6 | 13 | 33.5 | 19-22.9 | 155-14.0 | 1.8 | | 9 | 120 | 2.5 | 0.07 | 0.4 | 0.3 | 0.07 | A |
| 11 | 6 | 36 | 0.5 | 19-24.6 | 155-24.6 | 8.0* | | 13 | 140 | 6.5 | 0.05 | 0.4 | | 0.06 | C |
| 11 | 7 | 34 | 49.1 | 19-24.0 | 155-23.9 | 8.0* | 1.8 | 18 | 71 | 7.0 | 0.05 | 0.5 | | 0.11 | B |
| 11 | 7 | 41 | 16.0 | 19-13.5 | 155-28.7 | 45.0 | 1.2 | 19 | 104 | 6.4 | 0.33 | 1.2 | 3.0 | 0.09 | B |
| 11 | 12 | 27 | 59.1 | 19-54.6 | 155- 9.1 | 47.9 | 1.7 | 20 | 238 | 20.2 | 0.44 | 2.2 | 3.6 | 0.14 | C |
| 11 | 16 | 8 | 31.9 | 19-18.4 | 155-15.0 | 8.0* | 0.6 | 13 | 161 | 5.2 | 0.08 | 0.6 | | 0.10 | C |
| 11 | 16 | 43 | 52.1 | 19-57.2 | 155-18.4 | 36.1 | 1.8 | 25 | 208 | 8.1 | 0.32 | 1.7 | 2.9 | 0.13 | C |
| 11 | 17 | 45 | 18.0 | 19-11.1 | 155-26.9 | 34.1 | 1.7 | 15 | 137 | 3.5 | 0.36 | 1.4 | 3.2 | 0.09 | B |
| 12 | 0 | 4 | 22.2 | 19-20.0 | 155-17.4 | 29.1 | 1.1 | 22 | 103 | 0.2 | 0.25 | 1.4 | 2.2 | 0.16 | B |
| 12 | 5 | 12 | 11.4 | 19-53.5 | 155-19.7 | 14.7 | 3.4 | 31 | 188 | 1.6 | 0.13 | 1.0 | 2.0 | 0.14 | C |
| 12 | 5 | 44 | 34.1 | 19-24.8 | 155-24.4 | 8.7 | 1.6 | 22 | 79 | 7.1 | 0.06 | 0.5 | 1.4 | 0.13 | B |
| 12 | 7 | 16 | 11.0 | 19-18.6 | 155-13.6 | 8.0* | 1.1 | 12 | 160 | 7.3 | 0.08 | 0.6 | | 0.08 | C |
| 12 | 7 | 32 | 13.9 | 19- 0.5 | 154-50.6 | 13.1* | 2.0 | 20 | 273 | 41.9 | 0.68 | 4.4 | | 0.19 | D |
| 12 | 7 | 33 | 33.3 | 19-22.8 | 155-25.0? | 11.0 | 2.3 | 17 | 71 | 5.6 | 0.12 | 1.2 | 3.1 | 0.26 | C |
| 12 | 10 | 17 | 52.2 | 19-53.0 | 155-20.6 | 13.1 | 2.5 | 11 | 137 | 0.8 | 0.14 | 1.7 | 1.1 | 0.13 | B |
| 12 | 10 | 30 | 13.5 | 19-42.1 | 155-15.1? | 8.0* | 3.1 | 33 | 108 | 17.3 | 6.01 | 40.4 | | 2.02 | D |
| 12 | 12 | 14 | 41.4 | 19-19.9 | 155-18.2 | 9.9 | 1.6 | 15 | 89 | 1.4 | 0.10 | 0.5 | 0.9 | 0.08 | A |
| 12 | 13 | 37 | 27.6 | 19-20.3 | 155- 9.2 | 9.0 | 1.8 | 15 | 97 | 3.4 | 0.09 | 0.7 | 1.3 | 0.10 | A |
| 12 | 19 | 18 | 13.1 | 19-13.6 | 155-20.3 | 32.6 | 1.2 | 13 | 168 | 12.9 | 0.54 | 2.1 | 4.7 | 0.11 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 12 | 20 | 0 | 33.8 | 19-22.9 | 155-14.4 | 2.4 | 1.1 | 7 | 121 | 2.8 | 0.05 | 0.1 | 1.9 | 0.02 | B |
| 12 | 20 | 27 | 52.4 | 19-22.4 | 155-23.2? | 7.0 | 2.4 | 31 | 47 | 4.0 | 0.08 | 0.8 | 1.6 | 0.25 | B |
| 12 | 21 | 47 | 6.1 | 19-23.2 | 155-13.2? | 2.0 | | 7 | 144 | 1.6 | 0.22 | 1.2 | 1.0 | 0.15 | B |
| 12 | 22 | 4 | 23.1 | 19-28.1 | 155-24.5? | 8.4 | 1.2 | 17 | 143 | 3.8 | 0.13 | 1.0 | 0.8 | 0.18 | B |
| 13 | 0 | 38 | 58.4 | 19-23.0 | 155-14.4 | 6.4 | 1.8 | 18 | 109 | 2.9 | 0.04 | 0.4 | 0.4 | 0.08 | B |
| 13 | 1 | 46 | 24.1 | 19-21.0 | 155-15.8 | 7.8 | 0.9 | 11 | 141 | 2.5 | 0.14 | 1.0 | 0.7 | 0.13 | B |
| 13 | 4 | 47 | 19.6 | 19-57.8 | 155-21.0 | 13.6 | 1.4 | 10 | 203 | 8.2 | 0.19 | 1.8 | 2.7 | 0.11 | C |
| 13 | 13 | 26 | 19.8 | 19-20.6 | 155-19.7 | 1.6* | 0.1 | 10 | 106 | 4.2 | 0.04 | 0.3 | | 0.06 | B |
| 13 | 16 | 44 | 15.5 | 19-24.4 | 155-16.9 | 0.8* | | 9 | 74 | 0.9 | 0.04 | 0.2 | | 0.06 | B |
| 13 | 17 | 11 | 31.1 | 19-23.7 | 155-23.6 | 8.0* | 0.9 | 16 | 110 | 6.5 | 0.05 | 0.5 | | 0.09 | B |
| 13 | 17 | 15 | 45.3 | 19-22.0 | 155-11.3 | 5.5 | | 14 | 107 | 2.5 | 0.11 | 0.6 | 1.2 | 0.12 | B |
| 13 | 17 | 25 | 35.7 | 19-21.4 | 155-15.7 | 30.0 | 0.9 | 13 | 100 | 1.9 | 0.23 | 1.1 | 2.2 | 0.09 | B |
| 13 | 17 | 35 | 12.2 | 19-24.2 | 155-17.4 | 1.8 | | 9 | 92 | 1.5 | 0.03 | 0.2 | 0.1 | 0.04 | A |
| 13 | 22 | 50 | 37.7 | 19-28.0 | 155-52.8? | 9.5 | 3.0 | 24 | 190 | 22.2 | 0.21 | 1.6 | 2.1 | 0.18 | C |
| 14 | 2 | 17 | 22.4 | 19-21.9 | 155-24.1? | 8.0 | 0.9 | 11 | 123 | 3.5 | 0.22 | 0.6 | 2.0 | 0.08 | B |
| 14 | 2 | 29 | 47.8 | 19-36.9 | 155- 5.7 | 9.8 | 1.9 | 18 | 162 | 11.6 | 0.10 | 0.8 | 1.1 | 0.14 | C |
| 14 | 4 | 33 | 48.4 | 19-22.2 | 155-24.4? | 8.1 | 1.0 | 10 | 125 | 4.2 | 0.24 | 0.6 | 2.3 | 0.08 | B |
| 14 | 11 | 30 | 0.6 | 19-20.9 | 155-16.1 | 29.8 | 2.6 | 28 | 103 | 2.7 | 0.10 | 0.7 | 1.0 | 0.10 | B |
| 14 | 15 | 38 | 59.5 | 19-37.1 | 155- 5.6 | 8.0* | 1.8 | 16 | 123 | 11.3 | 0.08 | 0.6 | | 0.13 | C |
| 14 | 18 | 7 | 39.4 | 19-18.4 | 155-14.4 | 8.0* | 1.5 | 11 | 163 | 6.0 | 0.08 | 0.6 | | 0.10 | C |
| 14 | 20 | 3 | 36.4 | 19-55.7 | 155- 8.4 | 47.9 | 2.1 | 25 | 224 | 21.6 | 0.40 | 1.8 | 3.4 | 0.14 | C |
| 14 | 20 | 7 | 20.4 | 19-25.5 | 155-24.6 | 8.0* | | 13 | 129 | 7.6 | 0.07 | 0.6 | | 0.11 | C |
| 14 | 22 | 8 | 15.6 | 19-26.6 | 155-26.9 | 7.0 | 1.7 | 17 | 97 | 7.6 | 0.10 | 0.8 | 0.7 | 0.18 | C |
| 14 | 23 | 46 | 3.4 | 19-19.2 | 155-13.4 | 9.0* | 1.8 | 10 | 206 | 6.1 | 0.11 | 0.8 | | 0.09 | C |
| 15 | 2 | 0 | 42.4 | 19-21.6 | 155-25.0? | 7.9 | 1.2 | 18 | 62 | 3.9 | 0.06 | 0.6 | 1.4 | 0.15 | B |
| 15 | 3 | 48 | 1.4 | 19-20.4 | 155-12.9 | 8.0* | 1.3 | 9 | 123 | 6.1 | 0.07 | 0.7 | | 0.11 | C |
| 15 | 4 | 48 | 31.7 | 19-36.9 | 155- 5.5? | 8.7 | 1.8 | 16 | 164 | 11.6 | 0.10 | 1.7 | 2.3 | 0.14 | C |
| 15 | 4 | 49 | 46.9 | 19-37.1 | 155- 6.7 | 8.0* | 0.9 | 15 | 110 | 11.5 | 0.16 | 1.3 | | 0.20 | C |
| 15 | 5 | 39 | 50.2 | 19-43.9 | 156- 2.6 | 8.0* | 2.9 | 18 | 252 | 52.0 | 0.42 | 3.1 | | 0.17 | D |
| 15 | 5 | 40 | 15.4 | 19-25.0 | 155-27.0? | 7.9 | 1.7 | 21 | 92 | 4.8 | 0.09 | 0.7 | 0.6 | 0.16 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 15 | 7 | 11 | 55.1 | 20- 7.9 | 154-39.2? | 140.0* | 2.5 | 10 | 330 | 77.0 | 0.24 | 7.4 | | 0.13 | D |
| 15 | 9 | 10 | 44.2 | 19-26.6 | 155-24.1 | 8.0* | | 10 | 154 | 6.2 | 0.06 | 0.5 | | 0.06 | C |
| 15 | 17 | 40 | 4.6 | 19-20.1 | 155-12.8 | 8.0* | 1.4 | 11 | 129 | 6.4 | 0.07 | 0.6 | | 0.11 | C |
| 15 | 19 | 45 | 38.1 | 19-24.5 | 155-17.0 | 1.5 | 0.7 | 10 | 68 | 0.8 | 0.03 | 0.2 | 0.2 | 0.06 | A |
| 15 | 21 | 42 | 11.7 | 19-21.9 | 155-16.5 | 1.3 | | 9 | 155 | 1.3 | 0.05 | 0.3 | 0.2 | 0.06 | B |
| 15 | 22 | 36 | 54.5 | 19-22.4 | 155-10.0 | 6.3 | 1.5 | 18 | 97 | 0.7 | 0.06 | 0.5 | 0.5 | 0.11 | B |
| 15 | 22 | 49 | 58.7 | 19-53.5 | 155-20.0 | 15.0 | 2.6 | 25 | 188 | 1.0 | 0.12 | 0.9 | 1.7 | 0.13 | C |
| 15 | 23 | 58 | 51.4 | 19-25.9 | 155-23.6 | 7.5 | 1.4 | 14 | 100 | 6.0 | 0.06 | 0.5 | 0.4 | 0.11 | B |
| 16 | 1 | 43 | 40.3 | 19-59.4 | 154-55.9 | 8.0* | 2.2 | 18 | 274 | 44.6 | 1.21 | 8.0 | | 0.26 | D |
| 16 | 4 | 29 | 10.2 | 19-23.6 | 155-23.4 | 8.0* | 1.5 | 11 | 105 | 6.3 | 0.03 | 0.3 | | 0.05 | B |
| 16 | 8 | 19 | 44.1 | 19-20.3 | 155-17.9? | 8.9 | 0.6 | 13 | 86 | 0.8 | 0.41 | 2.5 | 3.3 | 0.36 | C |
| 16 | 8 | 46 | 32.4 | 19-20.8 | 155-17.1 | 23.4 | 1.3 | 14 | 150 | 1.4 | 0.22 | 1.0 | 1.9 | 0.07 | B |
| 16 | 9 | 16 | 6.9 | 19-24.2 | 155-30.1 | 12.7 | 0.5 | 13 | 97 | 5.4 | 0.05 | 0.5 | 0.4 | 0.07 | A |
| 16 | 10 | 2 | 3.4 | 20- 0.5 | 154-59.7 | 50.0 | 3.1 | 26 | 265 | 33.3 | 0.67 | 3.4 | 4.7 | 0.15 | D |
| 16 | 10 | 44 | 32.2 | 19-16.0 | 155-25.8 | 53.2 | | 19 | 144 | 1.7 | 0.47 | 1.4 | 4.2 | 0.11 | B |
| 16 | 13 | 59 | 41.5 | 19-21.6 | 155-22.6 | 8.2 | 0.2 | 11 | 77 | 2.8 | 0.06 | 0.5 | 0.4 | 0.08 | A |
| 16 | 20 | 35 | 44.1 | 19-49.8 | 156- 6.5 | 48.1 | | 21 | 248 | 32.4 | 0.29 | 1.4 | 2.6 | 0.08 | C |
| 16 | 21 | 24 | 34.8 | 19-20.8 | 155-27.1? | 8.0 | 2.1 | 18 | 84 | 3.3 | 0.07 | 0.6 | 0.5 | 0.14 | B |
| 16 | 23 | 34 | 3.0 | 19-15.8 | 154-60.0 | 38.9 | 2.4 | 30 | 221 | 9.2 | 0.25 | 1.4 | 1.9 | 0.12 | C |
| 17 | 1 | 57 | 42.3 | 19-22.5 | 155-24.3? | 6.0 | 0.9 | 11 | 112 | 4.7 | 0.16 | 0.9 | 2.4 | 0.09 | B |
| 17 | 2 | 29 | 30.1 | 19-55.8 | 155- 6.6 | 8.0* | 1.5 | 16 | 247 | 47.3 | 0.50 | 3.8 | | 0.19 | D |
| 17 | 5 | 36 | 54.3 | 19-39.7 | 155-10.2? | 8.6 | 1.5 | 13 | 94 | 10.7 | 0.33 | 2.3 | 4.2 | 0.30 | C |
| 17 | 6 | 44 | 41.8 | 19-20.6 | 155-20.1 | 0.1 | 0.2 | 9 | 109 | 4.8 | 0.61 | 0.2 | 1.3 | 0.07 | A |
| 17 | 6 | 48 | 13.4 | 19-21.8 | 155-23.0 | 7.4 | 0.5 | 11 | 90 | 3.0 | 0.23 | 0.6 | 1.9 | 0.09 | A |
| 17 | 6 | 56 | 40.2 | 19-23.1 | 155-22.5 | 8.0* | 0.8 | 10 | 91 | 5.1 | 0.05 | 0.5 | | 0.09 | B |
| 17 | 12 | 0 | 12.7 | 19-56.1 | 155-14.6 | 57.3 | 1.6 | 25 | 215 | 11.7 | 0.55 | 2.3 | 4.6 | 0.17 | C |
| 17 | 18 | 55 | 26.5 | 19-56.0 | 155- 8.6 | 49.0 | 1.4 | 16 | 224 | 21.5 | 0.36 | 1.7 | 3.3 | 0.11 | C |
| 17 | 21 | 37 | 19.3 | 19-23.3 | 155-15.6 | 2.2* | 1.2 | 9 | 91 | 1.7 | 0.12 | 0.9 | | 0.23 | B |
| 17 | 22 | 25 | 32.8 | 19-21.9 | 155-24.1 | 8.3 | 0.3 | 13 | 86 | 3.4 | 0.08 | 0.6 | 1.5 | 0.10 | A |
| 18 | 1 | 54 | 32.1 | 19-20.2 | 155-10.7 | 9.7 | 1.8 | 11 | 117 | 3.8 | 0.16 | 1.0 | 2.8 | 0.08 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 18 | 3 | 33 | 37.7 | 19-19.3 | 155-18.8 | 5.7 | 0.9 | 15 | 112 | 2.5 | 0.08 | 0.5 | 0.5 | 0.11 | B |
| 18 | 14 | 20 | 10.8 | 19-40.8 | 155-10.7? | 31.3* | | 16 | 280 | 22.8 | 0.25 | 2.1 | | 0.09 | D |
| 18 | 20 | 11 | 28.6 | 19-21.9 | 155-16.4 | 27.6 | | 16 | 89 | 1.4 | 0.19 | 0.9 | 1.8 | 0.11 | B |
| 18 | 20 | 19 | 5.6 | 19-22.8 | 155- 4.4? | 3.5 | | 14 | 149 | 5.9 | 0.14 | 0.9 | 1.3 | 0.17 | B |
| 19 | 1 | 37 | 51.4 | 19-12.6 | 155-22.5 | 30.1 | | 23 | 160 | 10.9 | 0.21 | 1.1 | 2.1 | 0.14 | C |
| 19 | 1 | 41 | 18.5 | 19-20.9 | 155- 7.9? | 5.4 | | 14 | 79 | 4.1 | 0.18 | 1.4 | 1.6 | 0.28 | B |
| 19 | 3 | 12 | 23.8 | 19-54.4 | 155-10.6 | 46.5 | 3.4 | 33 | 197 | 17.5 | 0.30 | 1.5 | 3.1 | 0.17 | C |
| 19 | 4 | 44 | 4.8 | 19-56.0 | 155-10.0 | 48.8 | 1.7 | 26 | 238 | 19.1 | 0.39 | 1.9 | 3.2 | 0.12 | C |
| 19 | 7 | 28 | 36.9 | 19-20.6 | 155- 7.2 | 8.0* | | 9 | 159 | 5.3 | 0.21 | 2.2 | | 0.24 | C |
| 19 | 8 | 5 | 53.6 | 19-22.5 | 155-24.0 | 7.4 | 2.0 | 27 | 51 | 4.5 | 0.07 | 0.7 | 0.5 | 0.20 | C |
| 19 | 15 | 42 | 16.6 | 19-22.3 | 155-24.4 | 6.9 | 1.9 | 23 | 51 | 4.3 | 0.09 | 0.8 | 0.7 | 0.22 | B |
| 19 | 17 | 5 | 39.8 | 18-56.2 | 155-25.9 | 28.7 | | 17 | 276 | 24.8 | 0.81 | 5.0 | 4.8 | 0.16 | D |
| 19 | 19 | 18 | 22.0 | 19-20.5 | 155-14.5 | 24.5 | 3.2 | 30 | 111 | 4.3 | 0.10 | 0.7 | 1.0 | 0.12 | B |
| 19 | 23 | 55 | 7.9 | 19-18.4 | 155-13.2 | 8.0* | | 11 | 224 | 8.0 | 0.16 | 1.0 | | 0.09 | C |
| 20 | 1 | 18 | 40.8 | 19-22.1 | 155-23.6 | 7.8 | | 12 | 75 | 3.5 | 0.08 | 0.8 | 0.5 | 0.13 | B |
| 20 | 2 | 3 | 10.1 | 19-20.7 | 155- 9.2 | 2.1 | | 20 | 92 | 2.8 | 0.12 | 0.9 | 1.5 | 0.21 | B |
| 20 | 3 | 45 | 11.9 | 19-52.9 | 155- 8.7 | 43.5 | 2.5 | 31 | 217 | 18.9 | 0.35 | 1.6 | 3.2 | 0.15 | C |
| 20 | 4 | 43 | 44.1 | 19-23.0 | 155- 5.1? | 0.0 | | 17 | 85 | 6.9 | 6.14 | 0.8 | 11.7 | 0.20 | C |
| 20 | 5 | 23 | 12.6 | 19-21.4 | 155-24.5? | 7.9 | 2.3 | 29 | 60 | 3.0 | 0.08 | 0.7 | 0.6 | 0.23 | C |
| 20 | 6 | 22 | 36.5 | 19-52.5 | 155-10.6 | 16.0* | | 15 | 273 | 31.3 | 0.82 | 5.3 | | 0.19 | D |
| 20 | 8 | 25 | 37.1 | 19-26.1 | 155-28.6? | 7.6 | | 16 | 79 | 6.8 | 0.09 | 0.6 | 0.9 | 0.13 | B |
| 20 | 15 | 36 | 21.4 | 19-21.0 | 155-24.0 | 8.8 | 1.7 | 14 | 85 | 1.9 | 0.07 | 0.5 | 1.2 | 0.09 | A |
| 20 | 17 | 16 | 10.8 | 19-24.9 | 155-25.2 | 7.8 | 1.6 | 20 | 65 | 6.1 | 0.06 | 0.5 | 0.4 | 0.12 | B |
| 20 | 20 | 52 | 59.0 | 19-11.1 | 155-31.8? | 7.8 | 2.5 | 27 | 100 | 7.4 | 0.12 | 0.8 | 0.8 | 0.20 | B |
| 20 | 21 | 57 | 53.4 | 19-20.7 | 155- 6.8 | 8.0* | | 19 | 96 | 5.9 | 0.15 | 1.3 | | 0.21 | B |
| 20 | 23 | 39 | 44.6 | 19-37.3 | 156-11.3 | 54.4 | | 15 | 255 | 37.3 | 0.54 | 2.4 | 4.5 | 0.09 | C |
| 21 | 0 | 36 | 17.5 | 19-19.9 | 155-12.2 | 5.6 | 1.6 | 24 | 113 | 4.8 | 0.09 | 0.7 | 0.7 | 0.20 | B |
| 21 | 0 | 43 | 25.6 | 19-19.3 | 155-13.4 | 6.1 | 1.9 | 27 | 124 | 5.9 | 0.08 | 0.6 | 0.5 | 0.19 | B |
| 21 | 0 | 44 | 44.2 | 19-19.3 | 155-13.6 | 6.8 | | 18 | 124 | 6.0 | 0.10 | 0.8 | 0.6 | 0.15 | B |
| 21 | 1 | 40 | 48.6 | 19-24.5 | 155-17.4 | 9.0 | 1.2 | 11 | 65 | 1.0 | 0.09 | 0.4 | 0.8 | 0.05 | A |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21 | 1 | 46 | 10.2 | 19-10.9 | 155-19.6 | 41.7 | | 10 | 200 | 14.8 | 1.11 | 3.0 | 10.1 | 0.12 | C |
| 21 | 1 | 47 | 24.5 | 19-12.2 | 155-17.5? | 8.0* | | 11 | 194 | 14.6 | 0.30 | 2.2 | | 0.31 | D |
| 21 | 1 | 48 | 45.8 | 19-10.6 | 155-15.9 | 36.9 | | 14 | 211 | 14.4 | 0.73 | 3.0 | 5.9 | 0.18 | C |
| 21 | 7 | 34 | 36.8 | 19-22.0 | 155-27.0 | 4.4 | 2.2 | 23 | 78 | 1.4 | 0.11 | 0.9 | 1.0 | 0.27 | B |
| 21 | 9 | 27 | 17.6 | 19-23.4 | 155-14.9 | 3.4 | | 9 | 194 | 2.5 | 0.08 | 0.3 | 0.7 | 0.02 | B |
| 21 | 10 | 11 | 26.5 | 19-19.3 | 155-12.5 | 8.0* | | 14 | 142 | 5.8 | 0.09 | 0.7 | | 0.13 | C |
| 21 | 16 | 49 | 47.6 | 19-24.3 | 155- 9.4 | 8.0* | | 9 | 199 | 8.6 | 0.20 | 2.1 | | 0.15 | C |
| 22 | 5 | 37 | 11.4 | 19-20.1 | 155-11.8 | 8.0 | 1.6 | 20 | 126 | 4.7 | 0.08 | 0.8 | 0.5 | 0.12 | C |
| 22 | 14 | 28 | 52.1 | 19-22.5 | 155- 3.9? | 2.0 | 2.2 | 15 | 159 | 5.1 | 4.29 | 1.3 | 8.4 | 0.21 | C |
| 22 | 18 | 28 | 8.7 | 19-19.4 | 155- 9.9 | 1.4 | 1.7 | 17 | 122 | 4.8 | 2.26 | 1.0 | 8.6 | 0.23 | C |
| 22 | 21 | 45 | 50.4 | 19-56.2 | 155-31.3 | 25.2 | 2.3 | 24 | 157 | 18.4 | 0.19 | 1.1 | 2.7 | 0.13 | C |
| 22 | 22 | 31 | 25.7 | 19-19.4 | 155-13.5 | 6.2 | 1.6 | 27 | 122 | 5.7 | 0.07 | 0.6 | 0.5 | 0.17 | B |
| 22 | 23 | 11 | 25.3 | 19-25.2 | 155-17.7 | 4.5 | 1.0 | 11 | 79 | 0.4 | 0.25 | 0.9 | 1.9 | 0.15 | B |
| 22 | 23 | 43 | 51.1 | 19-24.1 | 155-15.9 | 2.0 | 0.7 | 12 | 62 | 2.3 | 0.07 | 0.4 | 0.3 | 0.10 | A |
| 23 | 13 | 10 | 47.2 | 19-20.6 | 155-11.3 | 7.0 | 1.6 | 23 | 99 | 3.7 | 0.08 | 0.8 | 0.6 | 0.17 | B |
| 23 | 14 | 9 | 8.8 | 19-15.6 | 155-22.0 | 8.0* | | 11 | 170 | 7.3 | 0.16 | 1.2 | | 0.15 | C |
| 23 | 16 | 35 | 9.3 | 19-19.8 | 155- 9.4 | 9.4 | | 13 | 107 | 4.3 | 0.09 | 0.6 | 1.2 | 0.07 | A |
| 23 | 20 | 37 | 8.2 | 19-22.9 | 155-13.1 | 7.7 | | 8 | 165 | 1.1 | 0.14 | 0.7 | 0.6 | 0.05 | B |
| 23 | 21 | 11 | 13.0 | 19-16.0 | 155-47.8 | 7.8 | 1.5 | 10 | 161 | 7.9 | 0.11 | 2.7 | 3.1 | 0.09 | C |
| 23 | 21 | 18 | 37.3 | 19-23.0 | 155-14.3 | 1.9 | 0.4 | 8 | 114 | 3.0 | 0.11 | 0.6 | 0.6 | 0.09 | A |
| 24 | 2 | 45 | 22.6 | 19-22.8 | 155-14.4 | 4.3 | | 8 | 126 | 2.7 | 0.25 | 0.9 | 2.6 | 0.10 | B |
| 24 | 4 | 31 | 2.8 | 19-24.0 | 155-15.9 | 1.9 | 0.5 | 10 | 113 | 2.5 | 0.05 | 0.4 | 0.3 | 0.07 | A |
| 24 | 5 | 3 | 31.1 | 19-23.3 | 155-15.1 | 4.7 | 2.6 | 16 | 77 | 2.1 | 0.10 | 0.4 | 1.0 | 0.09 | B |
| 24 | 6 | 51 | 28.3 | 19-32.9 | 155- 4.6 | 10.4 | 2.0 | 17 | 146 | 5.1 | 0.12 | 1.0 | 1.2 | 0.14 | C |
| 24 | 12 | 50 | 20.7 | 19-57.2 | 155- 1.4 | 50.3 | 2.7 | 26 | 258 | 34.3 | 0.71 | 3.4 | 5.7 | 0.17 | D |
| 24 | 21 | 29 | 5.8 | 19-20.7 | 155-13.2 | 8.0* | 0.6 | 16 | 82 | 5.7 | 0.05 | 0.5 | | 0.10 | B |
| 24 | 21 | 38 | 41.7 | 19-34.1 | 155- 4.4 | 8.3 | 2.2 | 27 | 121 | 7.1 | 0.09 | 0.8 | 1.3 | 0.13 | B |
| 24 | 21 | 40 | 27.9 | 19-21.2 | 155-12.5 | 11.6 | | 12 | 76 | 2.3 | 0.17 | 0.7 | 1.6 | 0.09 | A |
| 24 | 23 | 27 | 0.1 | 19-21.9 | 155-12.8 | 3.3 | 0.9 | 16 | 52 | 1.0 | 0.08 | 0.5 | 1.3 | 0.12 | B |
| 25 | 1 | 0 | 36.9 | 19-20.2 | 155- 8.5 | 3.4 | 2.1 | 30 | 77 | 4.3 | 0.12 | 0.8 | 1.0 | 0.29 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 25 | 1 | 51 | 25.1 | 19- 8.9 | 155-30.9 | 33.4 | 1.6 | 24 | 143 | 5.4 | 0.25 | 1.3 | 2.3 | 0.14 | B |
| 25 | 5 | 51 | 28.0 | 19-21.4 | 155-17.0 | 24.8 | 1.2 | 23 | 55 | 2.4 | 0.14 | 0.8 | 1.4 | 0.11 | B |
| 25 | 14 | 13 | 20.5 | 19-33.2 | 155- 5.0 | 9.9 | 1.7 | 24 | 160 | 5.8 | 0.12 | 0.9 | 1.1 | 0.13 | C |
| 26 | 1 | 27 | 2.9 | 19-22.6 | 155-22.1 | 8.0 | 0.8 | 19 | 60 | 4.7 | 0.04 | 0.4 | 0.3 | 0.10 | B |
| 26 | 3 | 53 | 5.3 | 19-23.3 | 155-14.9 | 4.5 | 0.8 | 18 | 84 | 2.4 | 0.09 | 0.3 | 0.8 | 0.08 | B |
| 26 | 4 | 8 | 33.7 | 19-14.8 | 155- 7.1 | 42.4 | | 31 | 200 | 5.0 | 0.26 | 1.3 | 2.0 | 0.13 | C |
| 26 | 5 | 46 | 25.7 | 19-22.8 | 155-14.5 | 3.6 | 0.4 | 10 | 124 | 2.5 | 0.26 | 1.0 | 3.1 | 0.15 | B |
| 26 | 9 | 12 | 10.8 | 19-23.2 | 155-15.1 | 2.9 | 1.0 | 13 | 110 | 2.1 | 0.08 | 0.4 | 1.4 | 0.08 | A |
| 26 | 18 | 22 | 53.3 | 19-24.0 | 155-15.9 | 4.0 | 1.4 | 13 | 91 | 1.3 | 0.12 | 0.5 | 1.0 | 0.06 | A |
| 27 | 0 | 50 | 57.4 | 19-20.0 | 155-13.5 | 4.6 | 0.8 | 21 | 68 | 4.7 | 0.11 | 0.7 | 1.2 | 0.23 | B |
| 27 | 1 | 9 | 21.2 | 19-57.1 | 155- 4.4 | 46.7 | 2.4 | 32 | 235 | 25.6 | 0.42 | 2.0 | 3.4 | 0.13 | D |
| 27 | 3 | 10 | 48.1 | 19-19.0 | 155-12.3 | 6.8 | 1.7 | 24 | 98 | 4.2 | 0.08 | 0.6 | 0.5 | 0.16 | B |
| 27 | 5 | 4 | 10.0 | 19- 3.5 | 155-26.4 | 30.0 | 1.8 | 25 | 208 | 11.3 | 0.38 | 2.0 | 3.7 | 0.18 | C |
| 27 | 14 | 46 | 15.0 | 19-27.1 | 154-53.3 | 8.0 | 1.2 | 13 | 234 | 3.4 | 0.26 | 2.8 | 1.6 | 0.12 | D |
| 27 | 17 | 19 | 10.9 | 19-20.5 | 155- 7.9? | 7.5 | 1.1 | 16 | 109 | 4.5 | 0.09 | 1.0 | 0.5 | 0.16 | B |
| 27 | 17 | 31 | 10.1 | 19-24.4 | 155-17.1 | 1.2 | 0.6 | 12 | 59 | 0.9 | 0.04 | 0.2 | 0.3 | 0.09 | A |
| 27 | 17 | 59 | 33.5 | 19-24.0 | 155-15.9 | 3.6 | 0.4 | 14 | 91 | 1.1 | 0.09 | 0.4 | 0.9 | 0.08 | B |
| 27 | 18 | 10 | 38.8 | 19-24.2 | 155-16.0 | 1.9 | 0.4 | 8 | 186 | 1.2 | 0.06 | 0.3 | 0.9 | 0.04 | B |
| 28 | 2 | 20 | 45.9 | 19-20.1 | 155- 8.0 | 9.6 | 1.4 | 17 | 88 | 4.9 | 0.09 | 0.5 | 1.2 | 0.08 | A |
| 28 | 2 | 47 | 46.5 | 19-18.9 | 155-14.7 | 4.8 | 0.9 | 15 | 109 | 4.1 | 0.10 | 0.7 | 1.1 | 0.14 | B |
| 28 | 2 | 52 | 28.9 | 19-18.7 | 155-14.7 | 7.1 | 0.9 | 18 | 114 | 3.7 | 0.09 | 0.5 | 0.6 | 0.12 | B |
| 28 | 7 | 6 | 26.4 | 18-48.0 | 155-11.1 | 8.0* | 1.3 | 21 | 283 | 49.4 | 0.72 | 4.6 | | 0.18 | D |
| 28 | 9 | 22 | 0.4 | 19-21.8 | 155-24.8 | 14.4 | 0.5 | 10 | 102 | 3.9 | 0.33 | 2.2 | 4.6 | 0.24 | B |
| 28 | 10 | 21 | 19.8 | 19-17.5 | 155- 0.3 | 35.3 | 2.2 | 26 | 223 | 6.4 | 0.38 | 2.1 | 2.7 | 0.15 | C |
| 28 | 12 | 10 | 58.3 | 19-21.4 | 155- 8.3? | 1.9 | 1.4 | 17 | 98 | 3.0 | 0.17 | 1.5 | 2.1 | 0.20 | C |
| 28 | 13 | 22 | 25.0 | 19-24.0 | 155-15.8 | 2.3 | 0.8 | 7 | 87 | 2.3 | 0.21 | 0.9 | 6.2 | 0.11 | C |
| 28 | 22 | 32 | 11.3 | 19-21.9 | 155-14.8 | 2.4* | | 8 | 170 | 3.9 | 0.06 | 0.4 | | 0.05 | C |
| 29 | 4 | 7 | 2.3 | 19-56.4 | 155- 4.0 | 8.0* | 1.9 | 14 | 263 | 44.7 | 0.83 | 5.7 | | 0.22 | D |
| 29 | 9 | 31 | 6.6 | 19-23.3 | 155-24.2 | 8.0* | 0.8 | 12 | 99 | 5.9 | 0.09 | 0.9 | | 0.15 | B |
| 29 | 10 | 28 | 0.8 | 19-34.0 | 155- 3.4 | 8.3 | 2.4 | 17 | 218 | 17.3 | 0.25 | 2.0 | 1.4 | 0.11 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29 | 15 | 22 | 1.6 | 19-23.4 | 155-14.9 | 13.7 | 3.4 | 28 | 44 | 0.1 | 0.05 | 0.6 | 0.9 | 0.14 | B |
| 29 | 17 | 50 | 38.9 | 19-26.8 | 155-36.1 | 7.1 | 0.5 | 11 | 244 | 4.5 | 0.63 | 4.7 | 2.6 | 0.10 | D |
| 29 | 21 | 19 | 16.1 | 19- 2.3 | 155-14.8 | 13.4* | 1.3 | 18 | 277 | 27.3 | 0.55 | 3.6 | | 0.15 | D |
| 29 | 23 | 10 | 18.6 | 19-24.9 | 155-28.2? | 7.6 | 3.0 | 27 | 52 | 4.6 | 0.06 | 0.5 | 1.0 | 0.14 | B |
| 30 | 0 | 36 | 28.1 | 19-24.6 | 155-14.6? | 1.1 | | 10 | 131 | 2.5 | 0.11 | 0.5 | 0.5 | 0.11 | B |
| 30 | 0 | 52 | 37.4 | 19-27.9 | 155-47.5 | 10.8 | 1.3 | 10 | 242 | 36.2 | 0.55 | 4.1 | 2.8 | 0.15 | D |
| 30 | 2 | 24 | 9.1 | 19-22.5 | 155-13.3 | 2.9 | 1.7 | 22 | 74 | 1.1 | 0.05 | 0.4 | 0.7 | 0.13 | A |
| 30 | 4 | 23 | 26.5 | 19-19.4 | 155-13.9 | 6.2 | 1.2 | 22 | 83 | 6.1 | 0.09 | 0.7 | 0.6 | 0.17 | B |
| 30 | 5 | 1 | 59.9 | 19-19.4 | 155-15.3 | 6.5 | 0.7 | 20 | 102 | 3.8 | 0.09 | 0.6 | 0.6 | 0.15 | B |
| 30 | 5 | 50 | 18.6 | 19-19.2 | 155-11.8 | 8.0* | 1.0 | 13 | 99 | 5.0 | 0.10 | 0.9 | | 0.17 | B |
| 30 | 8 | 49 | 56.4 | 19-23.7 | 155-16.8 | 15.0 | 1.0 | 17 | 46 | 0.5 | 0.07 | 0.7 | 0.8 | 0.10 | B |
| 30 | 11 | 17 | 41.5 | 19-58.8 | 155-34.7 | 2.4 | | 13 | 164 | 25.4 | 0.14 | 1.7 | 1.4 | 0.17 | C |
| 30 | 11 | 21 | 53.7 | 19-32.6 | 155-43.0? | 7.9 | 2.4 | 13 | 251 | 13.7 | 0.32 | 1.6 | 0.9 | 0.07 | C |
| 30 | 11 | 22 | 17.3 | 19-31.5 | 155-42.2 | 8.3 | 2.4 | 12 | 133 | 11.6 | 0.06 | 0.6 | 0.9 | 0.08 | B |
| 30 | 11 | 28 | 17.3 | 19-32.1 | 155-41.6 | 8.0* | 1.8 | 9 | 152 | 11.1 | 0.08 | 0.8 | | 0.09 | C |
| 30 | 11 | 29 | 54.3 | 19-31.5 | 155-42.2 | 8.4 | 1.0 | 11 | 158 | 11.6 | 0.08 | 0.9 | 1.1 | 0.08 | B |
| 30 | 12 | 32 | 35.8 | 19-19.7 | 155-12.1 | 8.0* | 1.2 | 12 | 87 | 5.3 | 0.07 | 0.6 | | 0.10 | B |
| 30 | 16 | 3 | 48.5 | 19-18.9 | 155-22.2 | 3.3 | 2.1 | 9 | 200 | 3.1 | 0.13 | 0.5 | 1.4 | 0.07 | B |
| 30 | 18 | 28 | 34.7 | 19-22.0 | 155-24.8 | 3.7 | 1.1 | 12 | 98 | 4.2 | 0.12 | 1.0 | 1.7 | 0.26 | B |
| 30 | 20 | 42 | 59.7 | 19-55.8 | 155-10.1 | 45.0 | 3.2 | 31 | 201 | 18.8 | 0.21 | 1.2 | 2.3 | 0.14 | C |
| 30 | 21 | 28 | 33.1 | 19-14.1 | 155-21.9 | 6.4 | 1.1 | 16 | 152 | 9.1 | 0.11 | 0.9 | 0.8 | 0.18 | C |
| 31 | 1 | 8 | 36.4 | 19-23.3 | 155-14.5 | 2.9 | | 10 | 109 | 2.6 | 0.10 | 0.3 | 1.4 | 0.05 | A |
| 31 | 2 | 4 | 41.0 | 19-20.2 | 155- 8.9 | 9.3 | | 10 | 120 | 3.9 | 0.11 | 0.6 | 1.3 | 0.06 | A |
| 31 | 3 | 47 | 27.3 | 19-24.1 | 155-15.5 | 3.2 | | 8 | 130 | 1.9 | 0.12 | 0.4 | 1.1 | 0.05 | B |
| 31 | 17 | 59 | 46.6 | 19-23.3 | 155-14.9 | 4.0 | 1.1 | 10 | 102 | 2.4 | 0.06 | 0.2 | 0.5 | 0.03 | A |
| JUN 1 | 0 | 15 | 59.0 | 19-20.9 | 155- 9.0 | 4.6 | 2.0 | 21 | 65 | 7.0 | 0.09 | 0.7 | 0.8 | 0.17 | B |
| 1 | 0 | 18 | 29.9 | 19-19.2 | 155-13.2 | 7.9 | | 16 | 77 | 4.0 | 0.11 | 0.7 | 1.8 | 0.11 | B |
| 1 | 1 | 7 | 36.3 | 19-23.0 | 155-14.4 | 2.0* | 1.1 | 12 | 110 | 2.9 | 0.08 | 0.6 | | 0.13 | B |
| 1 | 2 | 46 | 3.9 | 19-22.9 | 155-14.5 | 1.8 | 1.1 | 10 | 120 | 2.7 | 0.07 | 0.4 | 0.3 | 0.09 | A |
| 1 | 3 | 3 | 21.4 | 19-23.5 | 155-15.0 | 5.0 | 1.8 | 17 | 53 | 2.5 | 0.06 | 0.2 | 0.5 | 0.06 | A |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN | 1 | 3 | 48 | 9.1 | 19-59.1 | 155- 1.8 | 46.9 | 3.6 | 31 | 244 | 34.4 | 0.52 | 2.5 | 4.5 | 0.16 | D |
| | 1 | 4 | 57 | 26.2 | 19-22.2 | 155-13.3 | 5.8 | 1.4 | 12 | 90 | 1.2 | 0.25 | 0.8 | 2.1 | 0.12 | B |
| | 1 | 8 | 27 | 8.2 | 19-23.2 | 155-14.7 | 2.1 | 1.0 | 10 | 109 | 2.5 | 0.10 | 0.4 | 0.4 | 0.05 | A |
| | 1 | 9 | 13 | 36.7 | 19-19.7 | 155-12.0 | 8.0* | | 15 | 85 | 5.2 | 0.06 | 0.5 | | 0.09 | B |
| | 1 | 9 | 22 | 46.8 | 19-25.8 | 155-16.3 | 24.8 | | 12 | 129 | 6.3 | 0.21 | 1.0 | 2.1 | 0.08 | B |
| | 1 | 10 | 31 | 42.9 | 19-22.6 | 155-24.9 | 9.1 | 1.8 | 20 | 52 | 4.8 | 0.06 | 0.6 | 0.9 | 0.14 | B |
| | 1 | 14 | 15 | 15.3 | 19-40.4 | 155- 3.3 | 2.2 | 2.9 | 14 | 231 | 18.8 | 0.42 | 2.2 | 2.2 | 0.14 | C |
| | 1 | 17 | 0 | 10.9 | 19-20.6 | 155-24.6? | 7.4 | 1.9 | 23 | 91 | 2.4 | 0.08 | 0.8 | 1.4 | 0.22 | B |
| | 1 | 23 | 46 | 29.6 | 19-23.7 | 155-15.3 | 2.6 | 0.9 | 8 | 157 | 2.3 | 0.27 | 0.8 | 3.1 | 0.08 | C |
| | 2 | 5 | 34 | 1.6 | 18-57.8 | 155-17.0 | 16.4* | | 17 | 252 | 28.8 | 0.49 | 3.3 | | 0.21 | D |
| | 2 | 11 | 15 | 43.7 | 19-13.6 | 155- 6.2 | 5.6 | 2.9 | 26 | 221 | 7.6 | 0.25 | 1.3 | 0.8 | 0.17 | C |
| | 2 | 17 | 51 | 29.4 | 19-18.8 | 155-22.0 | 3.8 | | 12 | 138 | 3.5 | 0.12 | 0.5 | 1.6 | 0.09 | B |
| | 2 | 19 | 55 | 31.4 | 19-24.1 | 155-15.6 | 4.4 | 1.4 | 14 | 128 | 1.8 | 0.11 | 0.5 | 0.8 | 0.09 | B |
| | 3 | 0 | 0 | 29.7 | 19-24.2 | 155-16.0 | 3.8 | 0.9 | 7 | 105 | 1.2 | 0.08 | 0.2 | 0.6 | 0.02 | B |
| | 3 | 5 | 45 | 38.5 | 19- 9.1 | 155-28.3? | 8.0* | | 9 | 166 | 22.3 | 0.27 | 3.0 | | 0.21 | C |
| | 3 | 7 | 49 | 22.7 | 19-12.4 | 155-24.4 | 32.2 | 2.3 | 22 | 180 | 8.1 | 0.23 | 1.2 | 2.3 | 0.14 | C |
| | 3 | 17 | 31 | 46.8 | 19-37.5 | 155-22.0 | 8.0* | | 8 | 131 | 14.3 | 0.10 | 1.2 | | 0.15 | C |
| | 3 | 17 | 40 | 6.6 | 19-23.3 | 155-15.2 | 3.4 | 1.5 | 13 | 103 | 2.0 | 0.11 | 0.5 | 1.4 | 0.11 | B |
| | 3 | 19 | 46 | 50.6 | 19-19.6 | 155- 9.2 | 9.0 | | 15 | 125 | 4.7 | 0.15 | 0.8 | 1.7 | 0.09 | B |
| | 4 | 2 | 52 | 5.7 | 19-18.8 | 155-28.3 | 6.7 | | 19 | 68 | 5.3 | 0.11 | 1.0 | 0.9 | 0.25 | B |
| | 4 | 4 | 36 | 13.7 | 19-22.7 | 155- 4.9? | 0.0 | 2.2 | 26 | 85 | 6.3 | 2.75 | 0.8 | 5.3 | 0.24 | C |
| | 4 | 4 | 43 | 12.4 | 19-22.6 | 155-13.2 | 5.6 | 1.5 | 14 | 124 | 1.1 | 0.11 | 0.6 | 0.9 | 0.12 | B |
| | 4 | 4 | 46 | 35.9 | 19-22.2 | 155- 4.7? | 1.9 | 1.9 | 21 | 86 | 5.3 | 0.44 | 1.0 | 2.0 | 0.22 | C |
| | 4 | 5 | 10 | 21.4 | 19-24.1 | 155-15.8 | 1.9 | 0.9 | 9 | 120 | 1.5 | 0.06 | 0.3 | 0.3 | 0.07 | A |
| | 4 | 9 | 24 | 54.3 | 19-23.5 | 155-15.5 | 3.9 | | 11 | 93 | 2.0 | 0.11 | 0.5 | 1.0 | 0.09 | A |
| | 4 | 13 | 6 | 2.6 | 19-59.9 | 155-14.4 | 91.6* | 3.7 | 14 | 314 | 57.7 | 2.94 | 27.8 | | 0.30 | D |
| | 4 | 14 | 2 | 33.0 | 19-23.8 | 155-15.2 | 2.7 | 0.9 | 7 | 167 | 2.1 | 0.15 | 0.5 | 2.2 | 0.05 | C |
| | 4 | 19 | 27 | 48.2 | 19-27.1 | 155-14.1? | 9.4 | 1.6 | 15 | 145 | 4.0 | 0.12 | 1.0 | 1.9 | 0.15 | C |
| | 5 | 4 | 9 | 55.6 | 19-24.3 | 155-24.8 | 8.0* | 1.6 | 16 | 80 | 6.0 | 0.05 | 0.4 | | 0.10 | B |
| | 5 | 6 | 20 | 47.6 | 19-22.4 | 155-24.6? | 7.5 | | 18 | 51 | 4.6 | 0.07 | 0.6 | 0.6 | 0.18 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN | 5 | 11 | 35 25.8 | 19-17.9 | 155-13.5? | 6.5 | 1.7 | 11 | 92 | 1.7 | 0.17 | 1.4 | 2.6 | 0.16 | B |
| | 5 | 17 | 49 5.1 | 19-21.2 | 155-24.1? | 8.4 | | 17 | 101 | 2.3 | 0.07 | 0.7 | 0.4 | 0.14 | B |
| | 5 | 18 | 52 48.3 | 19-23.3 | 155-14.8 | 2.0 | | 12 | 105 | 2.6 | 0.05 | 0.2 | 0.2 | 0.04 | A |
| | 5 | 20 | 23 4.7 | 19-20.4 | 155-19.6 | 4.9 | 2.0 | 22 | 63 | 4.0 | 0.05 | 0.4 | 0.5 | 0.13 | B |
| | 5 | 22 | 54 18.4 | 19-23.7 | 155-15.3 | 3.1 | 1.5 | 20 | 55 | 2.3 | 0.06 | 0.3 | 0.9 | 0.09 | B |
| | 6 | 2 | 10 0.0 | 19-36.8 | 155-48.7 | 9.6 | 1.6 | 11 | 153 | 8.8 | 0.09 | 1.1 | 1.8 | 0.10 | C |
| | 6 | 2 | 19 29.8 | 19-24.2 | 155-15.8 | 1.8 | 1.0 | 12 | 110 | 1.5 | 0.08 | 0.5 | 0.3 | 0.11 | B |
| | 6 | 5 | 38 24.1 | 19-24.0 | 155-15.6 | 3.0 | 1.5 | 19 | 64 | 1.7 | 0.06 | 0.3 | 0.8 | 0.10 | A |
| | 6 | 5 | 50 25.6 | 19-50.6 | 155-18.4 | 1.9 | 2.4 | 23 | 170 | 6.4 | 1.83 | 1.2 | 6.4 | 0.15 | C |
| | 6 | 6 | 1 4.1 | 19-24.2 | 155-16.0 | 3.0 | 0.8 | 7 | 104 | 1.1 | 0.03 | 0.2 | 0.4 | 0.02 | B |
| | 6 | 6 | 44 13.6 | 19-22.9 | 155-14.3? | 1.2 | 1.1 | 8 | 143 | 2.9 | 0.09 | 0.4 | 0.6 | 0.10 | B |
| | 6 | 8 | 4 48.8 | 19- 9.8 | 155-36.8? | 0.0 | 2.3 | 17 | 103 | 9.4 | 6.63 | 1.1 | 12.5 | 0.27 | C |
| | 6 | 13 | 23 22.5 | 19-20.3 | 155-12.6 | 9.6 | 1.6 | 19 | 71 | 4.0 | 0.08 | 0.5 | 1.0 | 0.08 | A |
| | 6 | 13 | 31 29.3 | 19-23.3 | 155-14.7 | 1.1 | 1.0 | 11 | 104 | 2.6 | 0.06 | 0.3 | 0.3 | 0.08 | A |
| | 6 | 16 | 16 3.7 | 19-22.7 | 155-14.2 | 5.6 | 1.6 | 21 | 103 | 2.7 | 0.07 | 0.4 | 0.6 | 0.10 | B |
| | 6 | 18 | 7 3.5 | 19-51.6 | 155- 7.3 | 45.1 | 2.1 | 33 | 217 | 15.8 | 0.40 | 1.9 | 3.7 | 0.15 | C |
| | 6 | 20 | 22 47.7 | 19-23.4 | 155-14.2 | 4.3 | 1.2 | 14 | 113 | 2.4 | 0.24 | 0.8 | 2.3 | 0.13 | B |
| | 6 | 20 | 54 37.8 | 19-20.0 | 155-10.8 | 9.1 | | 17 | 102 | 4.2 | 0.11 | 0.6 | 1.4 | 0.08 | A |
| | 6 | 21 | 43 34.3 | 20- 3.8 | 155-54.0 | 32.4 | 2.4 | 12 | 249 | 42.1 | 0.31 | 1.9 | 3.2 | 0.10 | C |
| | 6 | 23 | 40 56.3 | 19-24.2 | 155-15.9 | 2.7 | | 8 | 106 | 1.3 | 0.05 | 0.2 | 0.7 | 0.03 | A |
| | 7 | 0 | 12 24.4 | 19-24.1 | 155-15.7 | 3.5 | 2.2 | 21 | 62 | 1.7 | 0.05 | 0.3 | 0.5 | 0.09 | B |
| | 7 | 1 | 1 32.6 | 19-24.0 | 155-15.4 | 3.9 | 1.3 | 16 | 76 | 2.2 | 0.08 | 0.4 | 0.8 | 0.09 | A |
| | 7 | 4 | 21 6.0 | 19-23.2 | 155-14.9 | 3.2 | 1.1 | 13 | 103 | 2.4 | 0.07 | 0.3 | 1.0 | 0.05 | A |
| | 7 | 7 | 30 26.5 | 19-23.1 | 155-14.8 | 4.2 | 1.4 | 15 | 106 | 2.4 | 0.10 | 0.4 | 1.0 | 0.08 | A |
| | 7 | 12 | 41 45.7 | 19-20.0 | 155-12.9 | 4.7 | 1.5 | 23 | 71 | 4.5 | 0.08 | 0.6 | 0.7 | 0.19 | B |
| | 7 | 17 | 1 39.3 | 19-21.6 | 155- 5.6 | 1.4 | 2.6 | 28 | 113 | 5.6 | 0.92 | 0.7 | 3.3 | 0.18 | C |
| | 7 | 20 | 13 41.9 | 19-49.1 | 155- 6.9 | 14.3* | | 13 | 220 | 25.1 | 0.24 | 1.9 | | 0.14 | C |
| | 7 | 21 | 17 27.2 | 19-34.1 | 156-17.2 | 1.9 | 2.5 | 7 | 299 | 48.8 | 0.80 | 17.0 | 10.2 | 0.15 | D |
| | 7 | 22 | 33 51.3 | 19-18.4 | 155-19.9 | 6.1 | 1.6 | 12 | 188 | 2.4 | 0.07 | 0.4 | 0.4 | 0.07 | B |
| | 8 | 1 | 18 44.2 | 19-21.9 | 155-16.7 | 22.2 | 1.9 | 23 | 102 | 1.7 | 0.12 | 0.8 | 1.2 | 0.14 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN | 8 | 1 | 49 37.6 | 19-22.5 | 155-14.1 | 4.4 | 1.3 | 16 | 99 | 2.4 | 0.13 | 0.4 | 1.3 | 0.08 | B |
| | 8 | 3 | 7 0.3 | 19-23.1 | 155-14.3 | 1.8 | 1.1 | 10 | 111 | 3.0 | 0.06 | 0.4 | 0.3 | 0.08 | A |
| | 8 | 4 | 49 33.0 | 19-19.4 | 155-16.3 | 6.5 | 1.5 | 16 | 105 | 2.3 | 0.07 | 0.5 | 0.4 | 0.10 | A |
| | 8 | 6 | 14 54.4 | 19-22.4 | 155-13.0 | 8.0* | 1.5 | 10 | 125 | 4.8 | 0.07 | 0.7 | | 0.07 | C |
| | 8 | 23 | 16 56.0 | 19-44.6 | 155- 9.1 | 14.3* | | 20 | 212 | 25.9 | 0.31 | 2.4 | | 0.25 | C |
| | 8 | 23 | 57 5.3 | 19-22.9 | 155-14.4? | 0.7 | | 8 | 121 | 2.7 | 0.23 | 0.7 | 3.0 | 0.09 | B |
| | 9 | 0 | 4 13.5 | 19-23.1 | 155-14.4 | 4.4 | 2.2 | 24 | 52 | 2.9 | 0.06 | 0.4 | 0.7 | 0.13 | B |
| | 9 | 0 | 5 25.0 | 19-22.8 | 155-13.9 | 5.3 | 1.6 | 14 | 70 | 2.3 | 0.10 | 0.6 | 1.0 | 0.14 | B |
| | 9 | 0 | 31 48.2 | 19-23.2 | 155-14.8 | 3.6 | 1.6 | 11 | 109 | 2.8 | 0.13 | 0.5 | 1.8 | 0.07 | A |
| | 9 | 0 | 37 42.9 | 19-22.9 | 155-14.7 | 3.2 | 2.1 | 16 | 66 | 5.1 | 0.07 | 0.5 | 1.3 | 0.12 | B |
| | 9 | 0 | 47 30.9 | 19-22.9 | 155-14.5 | 1.5 | 2.4 | 20 | 67 | 3.3 | 0.08 | 0.4 | 0.3 | 0.11 | B |
| | 9 | 1 | 0 27.4 | 19-22.6 | 155-13.5 | 3.3 | 1.6 | 17 | 80 | 1.6 | 0.09 | 0.6 | 1.3 | 0.17 | B |
| | 9 | 1 | 9 58.4 | 19-23.0 | 155-15.0 | 5.4 | 2.0 | 15 | 62 | 4.2 | 0.06 | 0.5 | 0.6 | 0.11 | B |
| | 9 | 1 | 10 54.1 | 19-22.4 | 155-15.0 | 4.2 | 1.9 | 18 | 71 | 4.1 | 0.09 | 0.6 | 1.2 | 0.17 | B |
| | 9 | 1 | 15 17.4 | 19-22.9 | 155-14.9 | 4.1 | 1.6 | 17 | 83 | 3.4 | 0.06 | 0.4 | 0.8 | 0.10 | B |
| | 9 | 1 | 27 0.8 | 19-22.6 | 155-15.0 | 2.5 | 1.7 | 16 | 77 | 4.1 | 0.07 | 0.5 | 1.7 | 0.14 | B |
| | 9 | 1 | 29 52.6 | 19-23.0 | 155-14.8 | 4.8 | 2.0 | 19 | 48 | 3.8 | 0.06 | 0.4 | 0.7 | 0.09 | B |
| | 9 | 1 | 33 44.8 | 19-22.8 | 155-15.2 | 2.2* | 1.6 | 16 | 66 | 4.5 | 0.05 | 0.4 | | 0.11 | B |
| | 9 | 2 | 2 34.3 | 19-22.6 | 155-15.5 | 6.2 | 1.7 | 15 | 66 | 4.4 | 0.05 | 0.3 | 0.4 | 0.07 | A |
| | 9 | 2 | 36 17.2 | 19-22.9 | 155-15.3 | 6.0 | 1.5 | 13 | 53 | 3.8 | 0.06 | 0.4 | 0.6 | 0.09 | A |
| | 9 | 2 | 50 16.2 | 19-22.8 | 155-15.1 | 3.5 | 1.6 | 18 | 50 | 3.8 | 0.06 | 0.4 | 1.1 | 0.12 | B |
| | 9 | 3 | 1 32.3 | 19-22.3 | 155-15.9 | 3.1 | 1.1 | 13 | 121 | 4.7 | 0.07 | 0.4 | 1.1 | 0.08 | B |
| | 9 | 3 | 4 32.7 | 19-22.6 | 155-14.7 | 4.2 | 1.2 | 12 | 123 | 2.2 | 0.10 | 0.4 | 1.0 | 0.06 | B |
| | 9 | 3 | 7 0.4 | 19-22.1 | 155-16.0 | 5.0 | 1.5 | 16 | 65 | 4.5 | 0.10 | 0.4 | 1.1 | 0.10 | B |
| | 9 | 3 | 16 45.4 | 19-22.3 | 155-15.7? | 5.8 | 2.2 | 19 | 55 | 5.4 | 0.06 | 0.5 | 0.7 | 0.13 | B |
| | 9 | 3 | 26 34.0 | 19-22.7 | 155-15.3 | 5.4 | 1.2 | 11 | 121 | 3.2 | 0.12 | 0.5 | 1.0 | 0.07 | B |
| | 9 | 3 | 27 32.1 | 19-23.1 | 155-15.2 | 6.4 | 1.5 | 14 | 109 | 3.0 | 0.07 | 0.4 | 0.6 | 0.09 | B |
| | 9 | 3 | 36 47.8 | 19-22.1 | 155-16.1 | 5.8 | 1.5 | 16 | 64 | 4.2 | 0.06 | 0.3 | 0.6 | 0.08 | B |
| | 9 | 3 | 37 18.2 | 19-22.9 | 155-14.9 | 3.5 | 1.1 | 16 | 115 | 1.9 | 0.11 | 0.5 | 1.3 | 0.09 | A |
| | 9 | 3 | 41 46.7 | 19-22.6 | 155-15.5 | 5.0 | 1.2 | 15 | 66 | 2.9 | 0.09 | 0.4 | 0.9 | 0.09 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 9 | 3 | 42 | 49.6 | 19-22.9 | 155-15.0 | 5.7 | 1.2 | 17 | 65 | 1.7 | 0.06 | 0.3 | 0.5 | 0.07 | A |
| 9 | 3 | 46 | 53.2 | 19-22.7 | 155-15.0 | 5.2 | 1.7 | 15 | 68 | 3.8 | 0.07 | 0.5 | 0.7 | 0.11 | B |
| 9 | 3 | 51 | 45.7 | 19-22.7 | 155-15.3 | 3.9 | 1.1 | 16 | 117 | 1.3 | 0.11 | 0.5 | 1.2 | 0.10 | B |
| 9 | 3 | 52 | 58.2 | 19-22.9 | 155-14.9 | 4.6 | 1.2 | 16 | 115 | 3.5 | 0.12 | 0.4 | 1.2 | 0.09 | B |
| 9 | 3 | 54 | 22.8 | 19-22.7 | 155-15.1 | 5.1 | 1.2 | 13 | 76 | 1.5 | 0.12 | 0.4 | 1.0 | 0.06 | A |
| 9 | 3 | 55 | 6.2 | 19-23.1 | 155-15.4 | 3.1 | 1.3 | 15 | 69 | 1.6 | 0.12 | 0.6 | 2.1 | 0.16 | B |
| 9 | 3 | 56 | 45.5 | 19-22.7 | 155-14.7 | 3.6 | 1.1 | 13 | 120 | 2.2 | 0.15 | 0.6 | 2.0 | 0.11 | B |
| 9 | 3 | 57 | 27.8 | 19-22.7 | 155-15.3 | 3.7 |  | 14 | 117 | 1.2 | 0.13 | 0.6 | 1.5 | 0.11 | B |
| 9 | 3 | 59 | 57.6 | 19-23.0 | 155-14.5 | 4.2 | 2.0 | 19 | 64 | 3.1 | 0.05 | 0.3 | 0.6 | 0.08 | B |
| 9 | 4 | 2 | 22.8 | 19-22.9 | 155-15.0 | 5.6 | 1.2 | 17 | 79 | 1.8 | 0.10 | 0.3 | 0.9 | 0.07 | A |
| 9 | 4 | 5 | 7.5 | 19-23.0 | 155-14.8 | 3.9 | 1.1 | 12 | 114 | 2.2 | 0.11 | 0.4 | 1.2 | 0.07 | A |
| 9 | 4 | 7 | 59.4 | 19-23.1 | 155-14.8 | 4.2 | 1.1 | 12 | 112 | 2.2 | 0.08 | 0.3 | 0.8 | 0.05 | A |
| 9 | 4 | 9 | 27.6 | 19-22.3 | 155-16.1 | 3.6 | 1.1 | 14 | 117 | 0.4 | 0.09 | 0.4 | 1.0 | 0.10 | B |
| 9 | 4 | 12 | 23.2 | 19-22.8 | 155-15.2 | 5.6 | 1.5 | 19 | 86 | 1.4 | 0.05 | 0.3 | 0.5 | 0.08 | A |
| 9 | 4 | 13 | 21.7 | 19-22.8 | 155-14.8? | 1.3 |  | 13 | 116 | 2.1 | 0.08 | 0.4 | 0.4 | 0.13 | B |
| 9 | 4 | 14 | 9.7 | 19-23.0 | 155-14.6 | 2.0 | 1.1 | 14 | 94 | 2.5 | 0.05 | 0.2 | 0.2 | 0.05 | A |
| 9 | 4 | 15 | 24.6 | 19-22.8 | 155-14.9 | 4.9 | 1.2 | 16 | 117 | 1.8 | 0.09 | 0.3 | 0.8 | 0.07 | A |
| 9 | 4 | 21 | 8.4 | 19-22.7 | 155-15.4 | 5.9 | 1.2 | 14 | 116 | 1.1 | 0.06 | 0.2 | 0.5 | 0.05 | A |
| 9 | 4 | 23 | 50.0 | 19-23.2 | 155-15.1 | 3.1 | 1.0 | 12 | 111 | 2.0 | 0.09 | 0.4 | 1.3 | 0.07 | A |
| 9 | 4 | 28 | 14.3 | 19-23.1 | 155-14.8 | 3.5 | 1.1 | 14 | 109 | 2.2 | 0.09 | 0.4 | 1.2 | 0.08 | A |
| 9 | 4 | 29 | 21.9 | 19-22.9 | 155-15.1 | 5.8 | 1.2 | 16 | 113 | 1.6 | 0.13 | 0.4 | 1.0 | 0.08 | B |
| 9 | 4 | 30 | 44.9 | 19-22.8 | 155-15.1 | 4.1 | 1.1 | 15 | 116 | 1.6 | 0.11 | 0.4 | 1.1 | 0.10 | B |
| 9 | 4 | 32 | 9.1 | 19-22.7 | 155-14.9 | 5.7 | 1.5 | 16 | 120 | 1.8 | 0.10 | 0.4 | 0.8 | 0.08 | A |
| 9 | 4 | 34 | 17.9 | 19-22.8 | 155-14.7 | 3.4 | 1.1 | 15 | 118 | 2.2 | 0.13 | 0.5 | 1.9 | 0.13 | B |
| 9 | 4 | 37 | 3.9 | 19-22.8 | 155-15.3 | 4.3 |  | 14 | 115 | 1.2 | 0.12 | 0.5 | 1.2 | 0.10 | B |
| 9 | 4 | 38 | 10.2 | 19-22.9 | 155-14.8 | 4.9 | 1.5 | 18 | 65 | 2.2 | 0.10 | 0.4 | 1.0 | 0.11 | B |
| 9 | 4 | 40 | 31.1 | 19-22.9 | 155-15.1 | 5.9 | 1.2 | 17 | 78 | 1.7 | 0.08 | 0.3 | 0.6 | 0.07 | A |
| 9 | 4 | 45 | 39.9 | 19-22.8 | 155-14.9 | 4.3 |  | 12 | 117 | 1.8 | 0.15 | 0.6 | 1.5 | 0.10 | B |
| 9 | 4 | 45 | 59.0 | 19-22.7 | 155-14.9 | 4.4 | 1.2 | 15 | 120 | 1.9 | 0.11 | 0.5 | 1.2 | 0.10 | A |
| 9 | 4 | 46 | 59.8 | 19-22.9 | 155-14.6 | 4.1 | 1.5 | 17 | 91 | 2.4 | 0.09 | 0.3 | 0.9 | 0.08 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 9 | 4 | 49 | 21.6 | 19-22.6 | 155-15.3 | 5.5 | 1.2 | 15 | 115 | 1.1 | 0.10 | 0.4 | 0.8 | 0.08 | B |
| 9 | 4 | 52 | 46.2 | 19-22.8 | 155-14.9 | 6.8 | | 15 | 116 | 1.9 | 0.13 | 0.7 | 0.9 | 0.14 | B |
| 9 | 4 | 56 | 5.1 | 19-23.3 | 155-15.0 | 4.8 | 1.1 | 16 | 103 | 2.3 | 0.20 | 0.7 | 1.8 | 0.13 | B |
| 9 | 5 | 1 | 26.2 | 19-22.5 | 155-15.1 | 3.9 | 1.1 | 15 | 127 | 1.4 | 0.13 | 0.5 | 1.3 | 0.10 | B |
| 9 | 5 | 4 | 56.3 | 19-22.9 | 155-14.8 | 2.2 | | 10 | 122 | 2.2 | 0.12 | 0.5 | 0.5 | 0.07 | B |
| 9 | 5 | 5 | 30.6 | 19-22.8 | 155-14.9 | 4.4 | | 11 | 118 | 1.8 | 0.06 | 0.2 | 0.6 | 0.04 | A |
| 9 | 5 | 7 | 46.1 | 19-23.0 | 155-14.9 | 4.7 | 1.1 | 14 | 111 | 2.0 | 0.13 | 0.5 | 1.2 | 0.09 | B |
| 9 | 5 | 11 | 13.9 | 19-22.6 | 155-15.1 | 5.3 | 1.2 | 14 | 120 | 1.4 | 0.09 | 0.3 | 0.7 | 0.06 | A |
| 9 | 5 | 16 | 37.7 | 19-22.4 | 155-15.8 | 4.2 | | 13 | 123 | 0.2 | 0.10 | 0.4 | 0.9 | 0.07 | B |
| 9 | 5 | 17 | 11.2 | 19-22.9 | 155-14.9 | 5.1 | 1.2 | 16 | 114 | 1.9 | 0.12 | 0.4 | 1.0 | 0.08 | A |
| 9 | 5 | 18 | 20.6 | 19-22.8 | 155-15.1 | 5.4 | | 16 | 77 | 1.6 | 0.15 | 0.5 | 1.2 | 0.10 | B |
| 9 | 5 | 20 | 15.3 | 19-22.7 | 155-15.3 | 5.5 | 1.5 | 21 | 51 | 1.1 | 0.04 | 0.2 | 0.4 | 0.07 | A |
| 9 | 5 | 22 | 26.6 | 19-23.4 | 155-14.9 | 2.0 | | 10 | 101 | 2.5 | 0.06 | 0.3 | 0.2 | 0.07 | A |
| 9 | 5 | 25 | 30.0 | 19-24.6 | 155-24.3 | 8.0* | 1.5 | 10 | 171 | 7.1 | 0.07 | 0.6 | | 0.08 | C |
| 9 | 5 | 32 | 4.9 | 19-22.7 | 155-14.7 | 3.4 | 1.1 | 13 | 120 | 2.2 | 0.06 | 0.2 | 0.9 | 0.05 | A |
| 9 | 5 | 43 | 23.8 | 19-22.9 | 155-15.0 | 4.4 | 1.1 | 15 | 113 | 1.9 | 0.06 | 0.2 | 0.6 | 0.05 | A |
| 9 | 5 | 37 | 32.4 | 19-22.9 | 155-14.9 | 6.3 | 1.5 | 18 | 82 | 2.0 | 0.05 | 0.3 | 0.3 | 0.07 | A |
| 9 | 5 | 45 | 28.9 | 19-22.9 | 155-14.9 | 4.0 | 1.1 | 11 | 113 | 1.9 | 0.09 | 0.3 | 0.9 | 0.05 | A |
| 9 | 5 | 46 | 19.2 | 19-23.0 | 155-14.9 | 4.5 | 1.1 | 15 | 111 | 2.0 | 0.13 | 0.5 | 1.3 | 0.10 | B |
| 9 | 5 | 50 | 3.7 | 19-22.1 | 155-13.1 | 3.0 | | 8 | 153 | 1.0 | 0.11 | 0.7 | 1.3 | 0.05 | B |
| 9 | 5 | 50 | 24.8 | 19-22.7 | 155-14.9 | 3.9 | 1.1 | 15 | 119 | 1.9 | 0.13 | 0.5 | 1.4 | 0.11 | B |
| 9 | 5 | 51 | 14.9 | 19-22.8 | 155-15.2 | 5.5 | 1.2 | 15 | 116 | 1.4 | 0.08 | 0.3 | 0.6 | 0.05 | A |
| 9 | 5 | 55 | 46.0 | 19-23.0 | 155-14.7 | 2.0 | | 9 | 117 | 2.4 | 0.11 | 0.5 | 0.5 | 0.06 | A |
| 9 | 6 | 2 | 9.4 | 19-22.9 | 155-15.0 | 5.5 | 1.2 | 16 | 114 | 1.8 | 0.11 | 0.4 | 0.9 | 0.07 | A |
| 9 | 6 | 7 | 26.6 | 19-22.9 | 155-15.0 | 5.1 | 1.2 | 11 | 117 | 1.8 | 0.13 | 0.4 | 1.1 | 0.07 | A |
| 9 | 6 | 12 | 54.7 | 19-22.4 | 155-14.4 | 5.9 | | 12 | 142 | 2.6 | 0.33 | 0.9 | 2.2 | 0.11 | B |
| 9 | 6 | 15 | 41.4 | 19-22.8 | 155-15.2? | 6.7 | 1.3 | 13 | 120 | 1.4 | 0.28 | 1.4 | 2.6 | 0.14 | B |
| 9 | 6 | 20 | 9.4 | 19-23.1 | 155-14.6 | 3.0 | 1.1 | 9 | 111 | 2.5 | 0.07 | 0.2 | 1.0 | 0.04 | A |
| 9 | 6 | 25 | 0.3 | 19-23.2 | 155-15.0 | 1.3 | | 13 | 108 | 2.2 | 0.05 | 0.3 | 0.2 | 0.09 | A |
| 9 | 6 | 50 | 53.9 | 19-22.6 | 155-15.4 | 5.2 | 1.2 | 12 | 121 | 1.0 | 0.09 | 0.3 | 0.7 | 0.04 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 9 | 7 | 4 | 35.9 | 19-22.9 | 155-14.7 | 8.2 | | 12 | 114 | 2.3 | 0.08 | 0.5 | 0.5 | 0.09 | A |
| 9 | 7 | 5 | 24.7 | 19-22.9 | 155-14.9 | 5.2 | 1.7 | 21 | 64 | 2.0 | 0.06 | 0.4 | 0.6 | 0.10 | B |
| 9 | 7 | 16 | 51.9 | 19-22.8 | 155-15.2 | 4.0 | 1.1 | 17 | 75 | 1.4 | 0.07 | 0.3 | 0.8 | 0.08 | A |
| 9 | 7 | 31 | 51.7 | 19-23.0 | 155-14.6 | 1.1 | 1.1 | 15 | 111 | 2.5 | 0.06 | 0.3 | 0.3 | 0.07 | A |
| 9 | 7 | 37 | 58.7 | 19-22.9 | 155-14.8 | 5.0 | 1.2 | 15 | 114 | 2.2 | 0.10 | 0.4 | 0.8 | 0.07 | A |
| 9 | 7 | 59 | 26.8 | 19-22.9 | 155-15.1 | 5.3 | 1.2 | 13 | 113 | 1.7 | 0.15 | 0.5 | 1.3 | 0.10 | A |
| 9 | 8 | 7 | 7.0 | 19-22.9 | 155-15.0 | 5.3 | 1.2 | 16 | 113 | 1.9 | 0.12 | 0.4 | 1.0 | 0.09 | B |
| 9 | 8 | 15 | 23.4 | 19-23.0 | 155-14.8? | 1.7 | | 10 | 115 | 2.2 | 0.07 | 0.3 | 0.2 | 0.07 | B |
| 9 | 8 | 28 | 16.6 | 19-22.9 | 155-14.5 | 1.3 | | 11 | 114 | 2.0 | 0.08 | 0.4 | 0.4 | 0.09 | B |
| 9 | 8 | 41 | 21.8 | 19-22.8 | 155-15.1 | 5.4 | | 14 | 116 | 1.5 | 0.11 | 0.4 | 0.9 | 0.07 | A |
| 9 | 9 | 25 | 23.4 | 19-22.9 | 155-14.5 | 1.0 | 1.1 | 14 | 113 | 2.0 | 0.07 | 0.3 | 0.3 | 0.09 | B |
| 9 | 9 | 41 | 42.4 | 19-22.3 | 155-15.0 | 2.8 | 1.1 | 12 | 125 | 0.2 | 0.10 | 0.5 | 1.1 | 0.10 | B |
| 9 | 9 | 46 | 9.8 | 19-22.8 | 155-15.0 | 5.1 | | 13 | 116 | 1.7 | 0.08 | 0.3 | 0.7 | 0.05 | A |
| 9 | 11 | 24 | 47.8 | 19-22.9 | 155-15.0 | 4.5 | 1.1 | 14 | 114 | 1.8 | 0.05 | 0.2 | 0.5 | 0.04 | A |
| 9 | 11 | 31 | 46.0 | 19-23.1 | 155-14.5 | 1.1 | 1.1 | 14 | 106 | 2.8 | 0.07 | 0.3 | 0.3 | 0.10 | B |
| 9 | 11 | 34 | 47.3 | 19-23.1 | 155-15.0 | 4.2 | 1.1 | 12 | 111 | 2.0 | 0.06 | 0.2 | 0.6 | 0.03 | A |
| 9 | 12 | 38 | 43.8 | 19-22.8 | 155-15.1 | 6.0 | | 14 | 76 | 1.5 | 0.15 | 0.4 | 1.1 | 0.08 | A |
| 9 | 12 | 49 | 46.7 | 19-23.0 | 155-14.5 | 2.0 | 1.1 | 12 | 118 | 2.7 | 0.06 | 0.2 | 0.2 | 0.04 | A |
| 9 | 15 | 4 | 9.4 | 19-22.8 | 155-15.0 | 5.0 | 1.2 | 12 | 118 | 1.8 | 0.10 | 0.3 | 0.9 | 0.06 | A |
| 9 | 15 | 24 | 28.6 | 19-22.7 | 155-14.8 | 6.2 | 1.3 | 10 | 125 | 1.9 | 0.18 | 0.4 | 1.2 | 0.04 | B |
| 9 | 15 | 27 | 54.2 | 19-22.9 | 155-14.5 | 1.3 | 1.4 | 15 | 113 | 2.6 | 0.05 | 0.2 | 0.2 | 0.06 | A |
| 9 | 18 | 9 | 13.1 | 19-23.1 | 155-14.6 | 6.6 | | 10 | 109 | 2.6 | 0.28 | 0.8 | 1.8 | 0.08 | A |
| 9 | 18 | 10 | 57.6 | 19-22.9 | 155-14.7 | 4.3 | 1.6 | 20 | 66 | 2.3 | 0.06 | 0.3 | 0.6 | 0.09 | B |
| 9 | 18 | 11 | 49.9 | 19-22.8 | 155-14.5 | 5.2 | 1.2 | 13 | 118 | 2.5 | 0.24 | 0.7 | 1.8 | 0.09 | B |
| 9 | 18 | 27 | 50.1 | 19-20.6 | 155-19.5 | 1.8 | 1.3 | 12 | 102 | 3.8 | 0.09 | 0.3 | 0.4 | 0.06 | A |
| 9 | 19 | 38 | 12.4 | 19-22.7 | 155-15.0 | 5.9 | 1.2 | 15 | 116 | 1.6 | 0.15 | 0.5 | 1.2 | 0.09 | A |
| 9 | 20 | 0 | 22.1 | 19-10.3 | 155-36.1 | 6.1 | 2.9 | 27 | 102 | 8.5 | 0.13 | 0.8 | 0.8 | 0.16 | B |
| 9 | 20 | 3 | 40.3 | 19-20.5 | 155- 9.3 | 4.4 | 2.0 | 26 | 71 | 3.0 | 0.09 | 0.7 | 0.7 | 0.22 | B |
| 9 | 20 | 36 | 23.9 | 19-19.2 | 155-13.5? | 8.0 | 3.2 | 28 | 70 | 4.0 | 0.04 | 0.4 | 0.3 | 0.12 | B |
| 9 | 20 | 39 | 34.5 | 19-19.6 | 155-13.3 | 7.5 | 2.7 | 22 | 70 | 4.8 | 0.03 | 0.3 | 0.6 | 0.08 | A |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 9 | 21 | 14 | 24.8 | 19-22.9 | 155-14.7 | 6.4 | 1.3 | 12 | 121 | 2.2 | 0.24 | 0.5 | 1.5 | 0.06 | B |
| 9 | 23 | 11 | 57.7 | 19-17.4 | 155-15.5 | 6.4 | 1.6 | 16 | 177 | 3.6 | 0.09 | 0.6 | 0.6 | 0.12 | C |
| 10 | 0 | 25 | 35.1 | 19-22.8 | 155-15.1 | 6.0 | 1.2 | 16 | 117 | 1.6 | 0.13 | 0.5 | 1.0 | 0.08 | B |
| 10 | 9 | 20 | 35.6 | 19-23.5 | 155-23.0 | 8.0* | | 11 | 100 | 5.7 | 0.06 | 0.5 | | 0.11 | B |
| 10 | 10 | 5 | 0.6 | 19-21.2 | 155-13.4 | 13.4 | 1.7 | 12 | 193 | 4.8 | 0.23 | 0.6 | 1.7 | 0.04 | B |
| 10 | 12 | 44 | 28.2 | 19-23.0 | 155-15.4 | 5.4 | 1.4 | 15 | 110 | 1.3 | 0.14 | 0.5 | 1.0 | 0.09 | B |
| 10 | 19 | 36 | 27.3 | 19-20.4 | 155-19.4 | 28.1 | 3.0 | 32 | 53 | 3.5 | 0.11 | 0.7 | 1.2 | 0.14 | B |
| 10 | 20 | 28 | 34.4 | 19-22.2 | 155-24.8 | 10.0 | | 10 | 95 | 4.5 | 0.13 | 0.8 | 1.8 | 0.11 | B |
| 11 | 1 | 4 | 34.9 | 19-21.3 | 155-15.7 | 30.1 | | 17 | 67 | 2.1 | 0.24 | 1.1 | 2.2 | 0.11 | B |
| 11 | 3 | 38 | 47.0 | 18-52.7 | 155-11.5 | 14.2* | 2.8 | 20 | 272 | 42.3 | 0.35 | 2.4 | | 0.15 | D |
| 11 | 5 | 0 | 2.8 | 19-21.3 | 155-17.8 | 23.0 | 0.7 | 13 | 101 | 2.4 | 0.22 | 1.3 | 2.1 | 0.12 | B |
| 11 | 9 | 25 | 54.9 | 19-19.2 | 155-21.6 | 1.9* | 0.3 | 12 | 186 | 3.5 | 0.04 | 0.3 | | 0.05 | C |
| 11 | 11 | 19 | 8.9 | 19-18.7 | 155-13.2 | 7.8 | 2.1 | 20 | 82 | 3.1 | 0.06 | 0.5 | 0.3 | 0.11 | B |
| 11 | 21 | 32 | 21.2 | 19-50.5 | 155-16.5 | 12.2 | 2.1 | 20 | 177 | 8.8 | 0.12 | 1.3 | 1.5 | 0.11 | C |
| 12 | 4 | 13 | 8.5 | 19-22.8 | 155-14.3 | 1.2 | | 14 | 101 | 2.9 | 0.07 | 0.3 | 0.3 | 0.10 | B |
| 12 | 7 | 49 | 53.8 | 19-18.6 | 155-26.2 | 27.6 | 2.3 | 21 | 95 | 4.2 | 0.17 | 0.9 | 1.9 | 0.10 | [illegible] |
| 12 | 23 | 35 | 31.6 | 19-21.1 | 155-11.9 | 6.1 | 1.5 | 24 | 68 | 2.8 | 0.09 | 0.7 | 0.6 | 0.21 | B |
| 13 | 7 | 43 | 1.2 | 19-20.0 | 155-13.1 | 8.9 | 1.6 | 19 | 68 | 4.6 | 0.09 | 0.6 | 1.3 | 0.10 | B |
| 13 | 23 | 59 | 22.9 | 19-25.7 | 156- 2.9? | 43.7 | 2.8 | 22 | 256 | 25.8 | 0.61 | 2.6 | 4.7 | 0.12 | D |
| 14 | 1 | 45 | 19.1 | 19-20.4 | 155- 8.0 | 4.5 | 1.8 | 17 | 83 | 4.5 | 0.11 | 0.8 | 1.1 | 0.19 | B |
| 14 | 5 | 18 | 50.4 | 19-55.2 | 155-14.0 | 49.3 | 2.7 | 27 | 227 | 12.0 | 0.39 | 1.8 | 3.4 | 0.12 | C |
| 14 | 9 | 37 | 48.0 | 19-21.6 | 155- 6.5 | 8.0* | | 18 | 99 | 5.9 | 0.09 | 0.8 | | 0.13 | B |
| 14 | 12 | 42 | 40.6 | 19-18.2 | 155-13.2 | 6.6 | 2.6 | 23 | 93 | 2.2 | 0.07 | 0.6 | 0.5 | 0.14 | B |
| 14 | 12 | 45 | 34.5 | 19-18.5 | 155-12.9? | 7.0 | | 11 | 95 | 2.9 | 0.23 | 1.4 | 3.5 | 0.20 | B |
| 14 | 21 | 39 | 49.7 | 19-16.1 | 155-10.6? | 1.5 | | 14 | 221 | 5.1 | 0.49 | 1.7 | 1.5 | 0.22 | C |
| 14 | 23 | 51 | 37.9 | 19-17.8 | 155- 8.8 | 7.4 | | 8 | 140 | 1.6 | 0.15 | 1.4 | 1.0 | 0.12 | B |
| 15 | 0 | 23 | 58.7 | 19-18.6 | 155-13.7 | 9.2 | | 10 | 127 | 2.9 | 0.32 | 1.5 | 3.3 | 0.15 | B |
| 15 | 0 | 30 | 34.1 | 19-20.1 | 155- 9.4 | 3.1 | | 15 | 104 | 3.7 | 0.14 | 1.2 | 1.8 | 0.24 | B |
| 15 | 0 | 31 | 25.3 | 19-11.0 | 155-40.8 | 1.0 | 2.7 | 31 | 119 | 9.7 | 1.18 | 1.0 | 4.2 | 0.24 | C |
| 15 | 2 | 2 | 1.1 | 19-17.2 | 155-12.7? | 7.6 | 2.0 | 28 | 154 | 1.4 | 0.08 | 0.6 | 0.4 | 0.14 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 15 | 2 | 26 | 20.2 | 19-17.5 | 155-12.5? | 8.0 | | 14 | 149 | 1.8 | 0.08 | 0.6 | 0.5 | 0.10 | B |
| 15 | 3 | 47 | 17.7 | 19-22.1 | 155-15.8 | 3.4 | | 13 | 136 | 0.7 | 0.14 | 0.6 | 1.2 | 0.09 | B |
| 15 | 11 | 45 | 59.1 | 19-20.4 | 155-20.1 | 3.0 | 2.3 | 21 | 116 | 4.8 | 0.10 | 0.7 | 1.0 | 0.19 | B |
| 15 | 21 | 3 | 2.3 | 18-41.5 | 155-15.2 | 8.0* | 2.8 | 16 | 308 | 54.0 | 2.01 | 12.5 | | 0.19 | D |
| 16 | 1 | 29 | 44.7 | 19-22.4 | 155-24.4 | 3.7 | | 13 | 116 | 4.5 | 0.10 | 0.7 | 1.4 | 0.13 | B |
| 16 | 2 | 51 | 32.1 | 19-25.6 | 155-23.3 | 8.0* | 1.6 | 19 | 62 | 5.8 | 0.05 | 0.4 | | 0.11 | B |
| 16 | 3 | 14 | 48.3 | 19-53.9 | 155- 7.8 | 43.0 | 3.0 | 33 | 222 | 20.3 | 0.37 | 1.7 | 3.3 | 0.14 | C |
| 16 | 4 | 53 | 4.2 | 19-50.7 | 154-58.9? | 77.5* | | 11 | 262 | 38.7 | 0.43 | 4.8 | | 0.13 | D |
| 16 | 6 | 6 | 55.0 | 19-22.4 | 155-25.3 | 7.9 | 2.3 | 28 | 52 | 4.1 | 0.07 | 0.6 | 0.5 | 0.15 | B |
| 16 | 7 | 45 | 29.8 | 19-21.8 | 155-25.4 | 8.9 | | 16 | 108 | 4.2 | 0.08 | 0.7 | 1.4 | 0.11 | B |
| 16 | 9 | 1 | 21.8 | 19-18.9 | 155-28.9 | 8.0* | | 12 | 84 | 10.0 | 0.15 | 1.4 | | 0.24 | C |
| 16 | 11 | 44 | 12.0 | 19-20.6 | 155-13.6 | 4.5 | 1.6 | 24 | 111 | 3.9 | 0.11 | 0.7 | 0.8 | 0.22 | B |
| 16 | 12 | 56 | 2.4 | 19-51.1 | 155-32.2 | 33.2 | 2.6 | 15 | 118 | 11.4 | 0.23 | 1.3 | 3.0 | 0.12 | B |
| 16 | 14 | 7 | 40.6 | 19-24.2 | 155-23.3 | 7.5 | | 11 | 103 | 6.4 | 0.08 | 0.5 | 0.5 | 0.10 | A |
| 16 | 17 | 25 | 51.1 | 19-18.7 | 155-14.9 | 6.4 | | 12 | 117 | 4.0 | 0.11 | 0.5 | 0.9 | 0.09 | A |
| 16 | 22 | 39 | 5.0 | 19-18.3 | 155-12.6 | 1.8 | | 21 | 112 | 2.9 | 0.25 | 0.9 | 1.2 | 0.22 | B |
| 16 | 23 | 12 | 44.7 | 19-22.4 | 155-13.2 | 4.2 | 1.5 | 15 | 75 | 0.9 | 0.10 | 0.5 | 1.2 | 0.10 | A |
| 17 | 0 | 47 | 4.1 | 19-17.9 | 155-12.2 | 6.8 | 1.8 | 24 | 136 | 2.8 | 0.08 | 0.5 | 0.5 | 0.15 | B |
| 17 | 1 | 48 | 20.0 | 19-55.2 | 155- 8.3 | 48.1 | | 30 | 225 | 21.6 | 0.39 | 1.8 | 3.3 | 0.13 | C |
| 17 | 3 | 2 | 24.1 | 19-16.7 | 155-11.9? | 7.9 | | 12 | 201 | 2.8 | 0.13 | 0.9 | 0.5 | 0.10 | C |
| 17 | 3 | 9 | 24.3 | 19-23.0 | 155-27.4 | 9.7 | | 14 | 110 | 1.0 | 0.13 | 1.0 | 1.6 | 0.11 | B |
| 17 | 3 | 33 | 24.8 | 19-25.6 | 155-21.6 | 7.6 | | 10 | 98 | 3.9 | 0.06 | 0.4 | 0.5 | 0.05 | A |
| 17 | 4 | 26 | 7.8 | 19-17.0 | 155-11.8? | 8.0 | 1.9 | 21 | 185 | 2.9 | 0.10 | 0.7 | 0.4 | 0.11 | C |
| 17 | 4 | 34 | 52.6 | 19-17.9 | 155-12.4? | 0.9 | | 15 | 129 | 2.4 | 2.10 | 0.8 | 8.0 | 0.18 | C |
| 17 | 4 | 48 | 3.5 | 19-17.1 | 155-11.8 | 7.8 | 1.8 | 21 | 181 | 2.9 | 0.11 | 0.8 | 0.4 | 0.12 | C |
| 17 | 5 | 31 | 44.6 | 19-58.0 | 154-59.8 | 43.7 | | 24 | 246 | 37.3 | 0.54 | 2.7 | 4.6 | 0.15 | D |
| 17 | 7 | 48 | 0.3 | 19-17.1 | 155-11.9? | 7.5 | | 12 | 178 | 2.7 | 0.14 | 0.9 | 0.8 | 0.12 | C |
| 17 | 8 | 7 | 29.6 | 19-21.4 | 155-24.2 | 8.0* | | 11 | 166 | 6.3 | 0.08 | 0.6 | | 0.07 | C |
| 17 | 13 | 54 | 3.5 | 19-20.6 | 155- 8.1 | 4.3 | 1.8 | 16 | 82 | 4.2 | 0.11 | 0.9 | 1.0 | 0.18 | B |
| 17 | 15 | 0 | 6.9 | 19-17.7 | 155-12.4 | 5.9 | 1.8 | 25 | 142 | 2.3 | 0.09 | 0.6 | 0.5 | 0.17 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 17 | 17 | 19 | 55.1 | 19-19.1 | 155-13.8 | 6.8 | | 17 | 84 | 3.8 | 0.08 | 0.6 | 0.6 | 0.13 | B |
| 17 | 17 | 23 | 23.4 | 19-55.9 | 155-39.7? | 0.0 | | 11 | 127 | 25.0 | 3.62 | 0.9 | 6.8 | 0.10 | C |
| 17 | 17 | 58 | 14.5 | 19-23.5 | 155-25.9 | 10.3 | 1.7 | 14 | 144 | 3.4 | 0.09 | 0.5 | 1.0 | 0.06 | B |
| 17 | 18 | 29 | 32.7 | 19-10.0 | 155-40.0 | 4.1 | 2.4 | 22 | 117 | 10.3 | 0.15 | 1.2 | 1.3 | 0.24 | C |
| 17 | 18 | 39 | 4.5 | 19-16.8 | 155-12.0 | 7.9 | 1.8 | 16 | 196 | 2.7 | 0.10 | 0.7 | 0.4 | 0.11 | C |
| 18 | 1 | 9 | 23.4 | 19-31.4 | 155-41.9 | 8.3 | 2.9 | 19 | 109 | 11.1 | 0.05 | 0.5 | 0.7 | 0.09 | B |
| 18 | 2 | 12 | 53.2 | 19-20.3 | 155- 8.5 | 9.0 | | 11 | 86 | 4.0 | 0.08 | 0.6 | 1.1 | 0.06 | A |
| 18 | 2 | 27 | 47.1 | 19-21.8 | 155- 7.1 | 3.6 | 1.8 | 13 | 95 | 4.8 | 0.09 | 0.7 | 1.0 | 0.15 | B |
| 18 | 6 | 26 | 38.4 | 19-18.3 | 155-13.3 | 5.6 | 1.6 | 12 | 87 | 2.4 | 0.11 | 0.8 | 0.8 | 0.13 | B |
| 18 | 7 | 18 | 19.4 | 19-58.0 | 155-25.1 | 9.8 | | 11 | 202 | 11.7 | 0.30 | 2.5 | 2.3 | 0.20 | C |
| 18 | 7 | 22 | 33.4 | 19-19.8 | 155- 4.0 | 33.2 | | 18 | 235 | 11.0 | 0.34 | 1.5 | 2.6 | 0.07 | C |
| 18 | 11 | 9 | 50.6 | 19-32.8 | 155-36.5 | 9.2 | 2.9 | 25 | 81 | 6.5 | 0.08 | 0.7 | 1.0 | 0.16 | B |
| 18 | 15 | 46 | 39.6 | 19-21.8 | 155-12.7 | 4.6 | 1.4 | 13 | 150 | 1.2 | 0.15 | 0.8 | 1.6 | 0.13 | B |
| 18 | 17 | 31 | 28.6 | 19-55.1 | 155- 8.5 | 60.9 | | 12 | 241 | 36.5 | 0.94 | 3.8 | 8.8 | 0.12 | D |
| 18 | 19 | 44 | 8.8 | 19-22.9 | 155-27.4? | 8.8 | 2.1 | 25 | 54 | 0.7 | 0.10 | 0.7 | 0.7 | 0.20 | B |
| 19 | 1 | 25 | 21.5 | 19-22.3 | 155-11.3 | 5.9 | 1.5 | 20 | 93 | 2.5 | 0.05 | 0.4 | 0.5 | 0.10 | B |
| 19 | 5 | 0 | 45.2 | 19-16.8 | 155-12.4 | 5.4 | | 17 | 197 | 2.0 | 0.10 | 0.6 | 0.7 | 0.13 | C |
| 19 | 5 | 53 | 43.5 | 19-27.6 | 155-27.8? | 8.5 | | 20 | 141 | 8.8 | 0.12 | 0.8 | 0.7 | 0.16 | B |
| 19 | 6 | 28 | 58.0 | 19-20.6 | 155-14.0 | 10.1 | | 18 | 67 | 4.2 | 0.13 | 0.7 | 1.7 | 0.16 | B |
| 19 | 11 | 10 | 17.5 | 19-18.7 | 155-13.2 | 6.1 | | 11 | 83 | 3.1 | 0.09 | 0.7 | 0.7 | 0.09 | B |
| 19 | 13 | 11 | 20.5 | 19-18.4 | 155-13.5 | 6.3 | | 14 | 86 | 2.6 | 0.13 | 0.7 | 1.0 | 0.13 | B |
| 19 | 14 | 40 | 55.3 | 19-18.3 | 155-13.6 | 6.7 | 1.9 | 18 | 75 | 2.3 | 0.08 | 0.5 | 0.6 | 0.12 | B |
| 19 | 19 | 11 | 20.9 | 19- 5.8 | 156- 4.1 | 17.8* | | 14 | 301 | 27.9 | 0.51 | 3.8 | | 0.21 | D |
| 20 | 3 | 30 | 7.4 | 19-37.7 | 155- 8.6 | 11.4 | 2.1 | 22 | 92 | 14.6 | 0.07 | 0.6 | 0.7 | 0.10 | B |
| 20 | 16 | 40 | 53.9 | 19-19.7 | 155-13.3 | 8.0* | 1.6 | 19 | 68 | 5.0 | 0.04 | 0.4 | | 0.08 | B |
| 20 | 19 | 1 | 58.5 | 19-22.4 | 155-26.5 | 5.4 | 1.7 | 16 | 109 | 1.9 | 0.12 | 0.9 | 0.9 | 0.20 | B |
| 20 | 19 | 12 | 50.6 | 19-20.6 | 155- 8.0 | 6.3 | 3.3 | 30 | 81 | 4.3 | 0.09 | 0.7 | 0.5 | 0.20 | B |
| 20 | 19 | 20 | 8.5 | 19-20.6 | 155-11.1 | 9.5 | 1.7 | 17 | 79 | 3.5 | 0.07 | 0.5 | 0.9 | 0.07 | A |
| 20 | 21 | 0 | 10.0 | 19-25.3 | 155-24.2 | 8.2 | 1.8 | 23 | 62 | 7.5 | 0.06 | 0.6 | 2.4 | 0.16 | B |
| 20 | 23 | 28 | 30.6 | 19-18.1 | 155-18.4 | 29.0 | 2.1 | 26 | 124 | 0.5 | 0.18 | 1.0 | 1.7 | 0.14 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 21 | 0 | 31 | 34.9 | 19-19.5 | 155-13.9 | 6.4 | 1.5 | 18 | 79 | 4.7 | 0.10 | 0.7 | 0.8 | 0.17 | B |
| 21 | 7 | 24 | 9.3 | 19-20.6 | 155-12.1 | 6.9 | 2.9 | 31 | 71 | 3.6 | 0.06 | 0.6 | 0.4 | 0.17 | B |
| 21 | 14 | 26 | 5.9 | 19-17.4 | 155-15.9 | 7.1 | 4.0 | 30 | 136 | 4.2 | 0.07 | 0.5 | 0.4 | 0.15 | B |
| 21 | 15 | 32 | 34.0 | 19-18.3 | 155-15.7 | 6.8 | 1.6 | 20 | 142 | 4.4 | 0.07 | 0.5 | 0.4 | 0.11 | B |
| 21 | 16 | 51 | 33.6 | 19-21.3 | 155-24.0 | 7.2 | 1.6 | 22 | 51 | 2.3 | 0.06 | 0.6 | 0.5 | 0.17 | B |
| 21 | 17 | 43 | 11.2 | 19-20.3 | 155- 9.6 | 9.8 |  | 14 | 123 | 3.3 | 0.10 | 0.6 | 1.1 | 0.08 | B |
| 21 | 17 | 50 | 13.5 | 19-24.5 | 155-24.5 | 7.4 | 1.9 | 25 | 59 | 6.6 | 0.08 | 0.7 | 0.6 | 0.18 | B |
| 21 | 20 | 1 | 30.9 | 19-19.0 | 155-13.6 | 6.2 | 1.6 | 18 | 81 | 3.7 | 0.10 | 0.7 | 0.7 | 0.14 | B |
| 22 | 4 | 5 | 53.5 | 19-18.0 | 155-15.8 | 7.0 | 1.6 | 16 | 155 | 4.5 | 0.10 | 0.6 | 0.5 | 0.13 | C |
| 22 | 7 | 8 | 0.0 | 19-23.3 | 155-23.4? | 7.4 | 1.5 | 21 | 92 | 5.7 | 0.06 | 0.6 | 1.4 | 0.15 | B |
| 22 | 17 | 48 | 6.4 | 19-22.4 | 155-13.3 | 6.1 | 1.7 | 16 | 77 | 1.2 | 0.06 | 0.5 | 0.6 | 0.11 | B |
| 22 | 18 | 44 | 13.2 | 19-37.6 | 156-12.6 | 7.2 | 2.9 | 17 | 258 | 53.4 | 0.38 | 3.5 | 4.7 | 0.18 | D |
| 22 | 22 | 37 | 58.3 | 19-19.1 | 156-27.1 | 15.0* | 3.1 | 26 | 253 | 61.3 | 0.42 | 2.7 |  | 0.15 | D |
| 23 | 14 | 5 | 15.8 | 19-22.1 | 155-24.0 | 6.6 | 2.0 | 21 | 50 | 3.7 | 0.07 | 0.7 | 0.6 | 0.18 | B |
| 23 | 17 | 52 | 40.8 | 19-19.8 | 155-11.7 | 8.0* |  | 13 | 88 | 5.2 | 0.08 | 0.7 |  | 0.14 | B |
| 23 | 18 | 24 | 39.5 | 19-19.3 | 155-13.8? | 6.2 | 1.7 | 27 | 63 | 4.3 | 0.07 | 0.6 | 0.5 | 0.19 | B |
| 23 | 18 | 45 | 26.8 | 19-22.1 | 155-24.3 | 7.1 | 1.6 | 14 | 85 | 4.0 | 0.08 | 0.7 | 0.7 | 0.14 | B |
| 24 | 1 | 35 | 6.4 | 19-38.4 | 156-19.6 | 10.5 | 3.0 | 16 | 271 | 63.3 | 0.45 | 3.8 | 9.6 | 0.15 | D |
| 24 | 2 | 41 | 25.6 | 19-57.0 | 155-18.5 | 48.5 | 3.4 | 33 | 201 | 7.5 | 0.32 | 1.3 | 3.0 | 0.13 | C |
| 24 | 9 | 12 | 18.6 | 19-20.3 | 155- 8.1 | 7.6 |  | 14 | 100 | 4.5 | 0.10 | 1.1 | 0.7 | 0.16 | B |
| 24 | 18 | 9 | 21.9 | 19-46.6 | 155-12.1 | 13.7* |  | 24 | 204 | 19.4 | 0.17 | 1.4 |  | 0.17 | C |
| 24 | 18 | 57 | 51.4 | 19-19.5 | 155-15.5 | 5.9 | 1.5 | 19 | 100 | 3.4 | 0.09 | 0.6 | 0.6 | 0.15 | B |
| 25 | 0 | 27 | 27.5 | 19-24.6 | 155-27.5? | 7.9 | 1.8 | 22 | 65 | 3.9 | 0.08 | 0.7 | 1.3 | 0.18 | B |
| 25 | 7 | 1 | 10.0 | 19-18.6 | 155-14.8 | 6.0 |  | 15 | 94 | 3.7 | 0.07 | 0.5 | 0.5 | 0.11 | B |
| 25 | 7 | 39 | 31.0 | 19-13.2 | 155-19.9 | 40.5 |  | 25 | 163 | 9.0 | 0.24 | 1.0 | 2.2 | 0.12 | C |
| 25 | 12 | 52 | 14.4 | 19-20.0 | 155-12.1 | 6.2 | 1.9 | 25 | 80 | 4.7 | 0.07 | 0.6 | 0.6 | 0.20 | B |
| 25 | 17 | 32 | 54.7 | 19-23.1 | 155-13.4 | 6.6 |  | 8 | 135 | 3.4 | 0.40 | 1.0 | 3.1 | 0.10 | B |
| 25 | 18 | 0 | 7.4 | 19-12.9 | 155-19.7 | 40.5 |  | 16 | 166 | 9.5 | 0.32 | 1.4 | 3.0 | 0.12 | C |
| 25 | 18 | 7 | 20.3 | 19-54.2 | 155-55.1 | 0.7 | 2.8 | 26 | 214 | 28.9 | 0.38 | 1.6 | 0.8 | 0.14 | C |
| 26 | 0 | 32 | 13.0 | 19-20.2 | 155- 8.9 | 4.3 | 1.7 | 18 | 72 | 3.8 | 0.10 | 0.8 | 1.0 | 0.21 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 26 | 4 | 15 | 7.4 | 19-22.4 | 155-13.1 | 5.6 | 1.4 | 11 | 88 | 0.8 | 0.17 | 0.7 | 1.5 | 0.12 | B |
| 26 | 6 | 50 | 51.1 | 19-18.5 | 155-14.4 | 6.4 | 1.6 | 17 | 115 | 3.1 | 0.08 | 0.5 | 0.5 | 0.11 | B |
| 26 | 15 | 58 | 44.2 | 19-18.9 | 155-15.7 | 6.1 | 1.5 | 16 | 119 | 3.7 | 0.10 | 0.7 | 0.7 | 0.16 | B |
| 26 | 22 | 44 | 46.0 | 19-20.1 | 155-11.5 | 9.3 | | 13 | 90 | 4.8 | 0.06 | 0.3 | 0.8 | 0.05 | A |
| 27 | 0 | 12 | 27.1 | 19-22.0 | 155-13.2? | 8.3 | 1.5 | 10 | 95 | 1.3 | 0.09 | 0.5 | 0.6 | 0.07 | B |
| 27 | 3 | 22 | 46.0 | 19-13.3 | 155-19.9 | 40.9 | | 23 | 162 | 8.8 | 0.25 | 1.1 | 2.3 | 0.12 | C |
| 27 | 5 | 17 | 51.0 | 19-20.9 | 155-13.6 | 6.0 | | 16 | 61 | 3.3 | 0.11 | 0.8 | 0.9 | 0.17 | B |
| 27 | 8 | 6 | 58.2 | 19-18.5 | 155-13.0 | 8.0* | | 8 | 162 | 8.3 | 0.10 | 0.9 | | 0.10 | C |
| 27 | 8 | 30 | 39.8 | 19-25.9 | 155-27.3? | 8.1 | 1.7 | 22 | 67 | 6.2 | 0.08 | 0.6 | 0.5 | 0.14 | B |
| 27 | 9 | 59 | 4.5 | 19-25.9 | 155-16.7 | 3.6 | 0.7 | 8 | 235 | 1.9 | 0.37 | 1.3 | 1.9 | 0.08 | C |
| 27 | 10 | 16 | 6.6 | 19-17.4 | 155-15.6 | 6.9 | | 14 | 137 | 3.8 | 0.10 | 0.8 | 0.8 | 0.17 | B |
| 27 | 20 | 28 | 40.5 | 19-20.4 | 155-12.1 | 7.5 | 2.6 | 31 | 73 | 3.9 | 0.05 | 0.5 | 0.3 | 0.15 | B |
| 27 | 21 | 28 | 8.6 | 19-42.2 | 155-17.8 | 34.0 | 2.3 | 21 | 98 | 21.2 | 0.28 | 1.1 | 3.5 | 0.14 | B |
| 27 | 21 | 57 | 23.9 | 19-17.0 | 155-22.0 | 8.0* | | 13 | 144 | 6.1 | 0.09 | 0.8 | | 0.15 | C |
| 27 | 22 | 16 | 23.8 | 19-22.6 | 155-27.4 | 8.4 | 1.8 | 22 | 55 | 0.5 | 0.07 | 0.7 | 1.2 | 0.18 | B |
| 28 | 2 | 48 | 3.4 | 19-16.6 | 155-11.8 | 4.5 | | 15 | 167 | 3.1 | 0.09 | 0.6 | 0.8 | 0.11 | C |
| 28 | 21 | 27 | 6.2 | 19-19.3 | 155-13.7? | 1.9 | 1.8 | 27 | 65 | 4.3 | 0.16 | 1.3 | 2.2 | 0.31 | C |
| 28 | 22 | 43 | 44.0 | 19-51.4 | 155-15.9 | 34.7 | 2.5 | 26 | 218 | 8.9 | 0.39 | 1.8 | 3.2 | 0.12 | C |
| 29 | 4 | 12 | 55.4 | 19-19.3 | 155-15.6 | 6.9 | 1.5 | 17 | 106 | 3.5 | 0.09 | 0.6 | 0.6 | 0.15 | B |
| 29 | 4 | 34 | 44.7 | 19-23.6 | 155-25.7 | 7.8 | 2.0 | 23 | 61 | 4.0 | 0.07 | 0.5 | 0.5 | 0.11 | B |
| 29 | 8 | 22 | 27.2 | 19-20.4 | 155-11.4 | 5.4 | 1.7 | 24 | 77 | 4.1 | 0.09 | 0.7 | 0.7 | 0.21 | B |
| 29 | 8 | 25 | 41.9 | 19-20.6 | 155-11.2? | 7.3 | 1.8 | 12 | 96 | 3.7 | 0.14 | 1.0 | 1.2 | 0.16 | B |
| 29 | 8 | 34 | 26.9 | 19-20.4 | 155-11.3 | 6.5 | 2.0 | 28 | 77 | 4.0 | 0.08 | 0.6 | 0.5 | 0.19 | B |
| 29 | 13 | 33 | 49.5 | 19-18.2 | 155-28.4 | 47.7 | | 18 | 108 | 4.5 | 0.41 | 1.3 | 3.7 | 0.11 | B |
| 29 | 14 | 56 | 57.1 | 19-25.9 | 155-24.1 | 8.0* | 2.0 | 17 | 81 | 7.4 | 0.04 | 0.4 | | 0.09 | B |
| 29 | 18 | 32 | 8.5 | 19-17.8 | 155-25.1 | 41.2 | | 11 | 164 | 5.4 | 1.00 | 2.4 | 9.1 | 0.12 | C |
| 29 | 19 | 14 | 15.4 | 19-13.1 | 155-19.7 | 41.2 | | 24 | 165 | 9.2 | 0.32 | 1.4 | 2.9 | 0.13 | C |
| 29 | 19 | 28 | 30.7 | 19-20.0 | 155-11.1 | 5.1 | 1.8 | 26 | 86 | 4.4 | 0.09 | 0.7 | 0.7 | 0.23 | B |
| 29 | 20 | 6 | 4.4 | 19-20.5 | 155-18.2 | 3.7 | | 10 | 77 | 1.5 | 0.09 | 0.4 | 1.1 | 0.07 | A |
| 29 | 22 | 49 | 6.5 | 19-21.1 | 155-13.5 | 7.5 | 3.0 | 31 | 54 | 3.0 | 0.05 | 0.5 | 0.3 | 0.14 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN 29 | 23 | 10 | 46.0 | 19-46.6 | 155-11.8 | 13.7* | 2.4 | 22 | 166 | 19.4 | 0.15 | 1.3 | | 0.20 | C |
| 29 | 23 | 21 | 32.6 | 19-57.5 | 155-59.0 | 15.5* | 3.5 | 32 | 237 | 28.4 | 0.23 | 1.6 | | 0.15 | D |
| 30 | 0 | 46 | 34.1 | 19-18.3 | 155-13.4 | 6.4 | 1.8 | 27 | 81 | 2.3 | 0.09 | 0.7 | 0.5 | 0.18 | B |
| 30 | 3 | 8 | 53.0 | 19-49.1 | 155- 5.3? | 48.4* | 2.9 | 33 | 216 | 14.2 | 0.10 | 1.1 | | 0.14 | C |
| 30 | 3 | 36 | 59.0 | 19-18.3 | 155-13.4 | 6.2 | 1.8 | 23 | 81 | 2.4 | 0.09 | 0.7 | 0.5 | 0.17 | B |
| 30 | 6 | 9 | 3.0 | 19-26.2 | 155-22.4 | 8.1 | 1.4 | 11 | 113 | 3.9 | 0.11 | 0.6 | 1.5 | 0.06 | A |
| 30 | 10 | 38 | 52.1 | 19-20.7 | 155-11.2 | 5.0 | | 18 | 74 | 3.5 | 0.11 | 0.9 | 1.1 | 0.23 | B |
| 30 | 14 | 7 | 18.0 | 19-22.6 | 155-23.2 | 6.5 | 2.3 | 29 | 51 | 4.3 | 0.08 | 0.7 | 0.6 | 0.23 | B |
| 30 | 14 | 8 | 51.1 | 19-22.6 | 155-22.8 | 6.4 | 1.6 | 16 | 81 | 4.6 | 0.09 | 0.8 | 0.7 | 0.16 | B |
| 30 | 17 | 23 | 39.9 | 19-26.0 | 155-21.4 | 9.3 | 1.7 | 17 | 96 | 3.1 | 0.07 | 0.5 | 0.9 | 0.10 | A |
| 30 | 18 | 13 | 55.9 | 19-19.6 | 155-15.9 | 5.2 | | 18 | 100 | 2.8 | 0.08 | 0.6 | 0.5 | 0.13 | B |
| 30 | 21 | 20 | 5.7 | 19-23.4 | 155-26.5 | 8.6 | 1.7 | 22 | 82 | 2.5 | 0.08 | 0.7 | 1.3 | 0.16 | B |
| 30 | 22 | 45 | 11.4 | 19-19.4 | 155-13.4 | 6.2 | 1.6 | 26 | 70 | 4.4 | 0.08 | 0.6 | 0.5 | 0.18 | B |
| 30 | 23 | 10 | 33.7 | 19-21.6 | 155- 6.1? | 0.0 | 2.0 | 25 | 105 | 6.5 | 4.05 | 0.7 | 7.7 | 0.18 | C |
| 30 | 23 | 34 | 51.3 | 19-21.4 | 155- 6.1 | 2.3 | 2.0 | 27 | 102 | 6.3 | 0.11 | 0.7 | 1.0 | 0.19 | C |
| 30 | 23 | 39 | 9.9 | 19-21.5 | 155- 6.2? | 0.0 | 1.8 | 26 | 102 | 6.4 | 4.70 | 0.8 | 8.9 | 0.21 | C |

Table 3. Felt earthquakes

| Date | Time H | Time M | Time S | Magnitude | Felt report |
|---|---|---|---|---|---|
| Apr 15 | 00 | 59 | 38.1 | 4.2 | Volcano, Keaau, Mauna Kea Observatory, Kapapala |
| 22 | 21 | 07 | 52.1 | 4.8 | Island-wide Hawaii, Maui |
| 24 | 06 | 16 | 22.2 | 3.9 | Kamuela, Honokaa, Volcano, Mauna Kea Observatory |
| 26 | 10 | 26 | 30.1 | 6.2 | Throughout Hawaiian Islands, considerable damage in Hilo |
| 26 | 23 | 33 | 38.6 | 4.0 | Kamuela, Honokaa |
| 27 | 10 | 34 | 31.0 | 3.0 | Honokaa |
| May 5 | 10 | 07 | 28.6 | 3.8 | Hilo |
| 5 | 10 | 11 | 18.3 | 3.4 | Volcano |
| 5 | 10 | 56 | 13.9 | 2.7 | Volcano |
| 5 | 11 | 34 | 53.8 | 2.1 | Volcano |
| 5 | 11 | 38 | 51.5 | 1.7 | Volcano |
| 5 | 11 | 40 | 50.9 | 3.1 | Volcano |
| 5 | 11 | 49 | 17.4 | 1.8 | Volcano |
| 5 | 11 | 59 | 00.4 | 2.6 | Volcano |
| 5 | 12 | 03 | 10.9 | 1.9 | Volcano |
| 5 | 12 | 04 | 28.8 | 1.9 | Volcano |
| 5 | 12 | 14 | 13.6 | 2.7 | Volcano |
| 5 | 23 | 00 | 29.3 | 3.8 | Hilo |
| 7 | 17 | 20 | 11.3 | 3.5 | Laupahoehoe |
| 9 | 21 | 12 | 51.3 | 2.9 | Kulani Camp |
| 10 | 06 | 52 | 08.5 | 3.1 | Laupahoehoe |
| 19 | 03 | 12 | 23.8 | 3.4 | Kamuela, Honokaa |
| 29 | 15 | 22 | 01.6 | 3.4 | Volcano |
| 30 | 20 | 42 | 59.7 | 3.2 | Hilo, Kamuela, Honokaa |
| Jun 10 | 19 | 36 | 27.3 | 3.0 | Kapapala |
| 20 | 19 | 12 | 50.6 | 3.3 | Kapapala |
| 21 | 07 | 24 | 09.3 | 2.9 | Kapapala |
| 21 | 14 | 26 | 05.9 | 4.0 | Kapapala, Hilo, Volcano, Ainahou Ranch |
| 24 | 02 | 41 | 25.6 | 3.4 | Honokaa |
| 29 | 22 | 49 | 06.5 | 3.0 | Honokaa, Kapapala, Volcano |

May 5 upper east rift/Koae swarm--many small shocks felt near Pauahi and Hiiaka Craters area.

# HVO APRIL 1-JUNE 30, 1973

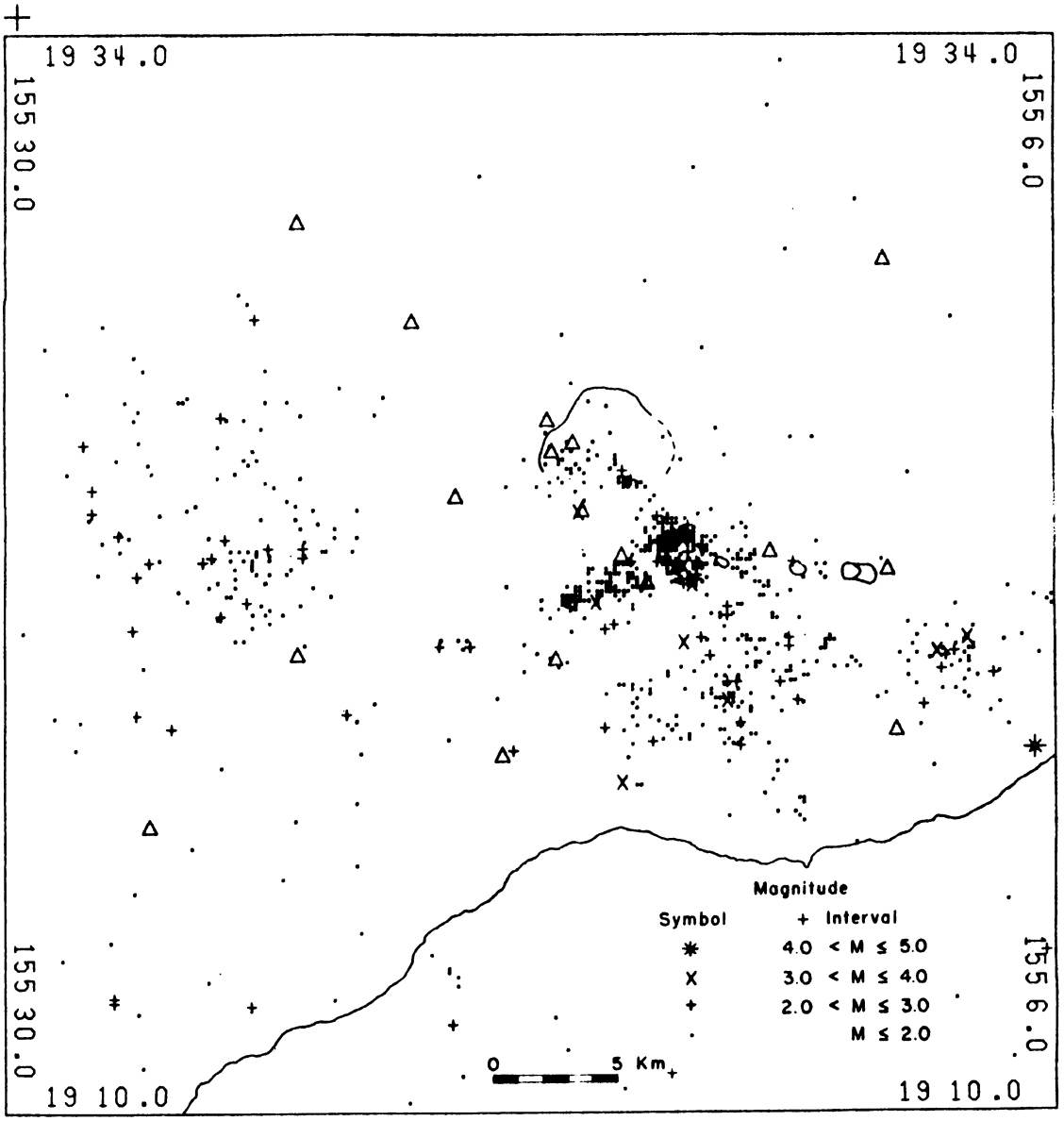


Figure 1.--Plot of epicenters in the Kilauea region. Triangles are seismometer locations. Kilauea Caldera and the major pit craters on the east rift are shown in outline. The Pacific Ocean lies in the lower right portion of the illustration.

Table 4 . Seismometer stations in Hawaii operated by the U. S. Geological Survey.

| STATION NAME | CODE | LAT-N | LONG-W | ELEV | TYPE | CAL | VCO | RADIO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| AHUA | AHU | 19 22.40 | 155 15.90 | 1070 | 3 | 6.0 | 2380 | | |
| CONE PEAK | CPK | 19 23.70 | 155 19.70 | 1038 | 3 | 1.34 | | | |
| DESERT | DES | 19 20.20 | 155 23.30 | 815 | 3 | 1.34 | | | |
| EAST KOAE | EKO | 19 22.17 | 155 14.99 | 1009 | 3 | | | | |
| HALE POHAKU | HPU | 19 46.85 | 155 27.50 | 3396 | 1 | 5.6 | 1360 | RF6 | |
| HILINA PALI | HLP | 19 17.96 | 155 18.63 | 707 | 3 | 6.0 | 2040 | | |
| KAHUKU | KHU | 19 14.90 | 155 37.10 | 1939 | 1 | 5.7 | 1700 | RF3 | |
| KEANAKOLU | KKU | 19 53.39 | 155 20.58 | 1863 | 1 | 4.8 | 2380 | RF7 | Installed 3/23/71 |
| KIPUKA NENE | KPN | 19 20.10 | 155 17.40 | 924 | 3 | 1.34 | | | |
| MAUNA LOA | MLO | 19 29.80 | 155 23.30 | 2010 | 3 | 6.5 | 1360 | | |
| MAUNA LOA X | MLX | 19 27.60 | 155 20.70 | 1475 | 3 | 1.34 | | | |
| MAKAOPUHI | MPR | 19 22.07 | 155 9.85 | 881 | 1 | 5.7 | 2720 | RF5 | |
| MOUNTAIN VIEW | MTV | 19 30.25 | 155 3.75 | 409 | 1 | 6.2 | 680 | RF8 | Installed 3/4/71 |
| NORTH PIT | NPT | 19 24.90 | 155 17.00 | 1115 | 3 | 1.34 | | | |
| OUTLET | OTL | 19 23.38 | 155 16.94 | 1038 | 3 | 5.0 | | | |
| PUU HULUHULU | PHH | 19 22.45 | 155 12.66 | 988 | 3 | | | | |
| PUU HONUAULA | PHO | 19 28.90 | 154 53.40 | 215 | 1 | 6.5 | 2720 | RF1 | |
| PUU PILI | PPL | 19 9.50 | 155 27.87 | 35 | 1 | 4.4 | 1360 | RF11 | Installed 2/17/71 |
| SOUTH POINT | SPT | 18 58.91 | 155 39.92 | 244 | 1 | 7.8 | 2040 | RF7 | Installed 3/10/71 |
| WAHAULA | WHA | 19 19.90 | 155 2.92 | 29 | 1 | 6.0 | 680 | RF9 | Installed 3/2/71 |
| WEST PIT | WPT | 19 24.70 | 155 17.50 | 1115 | 3 | 1.34 | | | |
| OPTICAL SEISMOGRAPHS | | | | | | | | | |
| HALEAKALA Z | HAL | 20 46.00 | 156 15.00 | 2090 | 3 | 0.71 | | | |
| HALEAKALA EW | HAE | 20 46.00 | 156 15.00 | 2090 | 0 | 1.0 | | | Wood-Anderson |
| HALEAKALA NS | HAN | 20 46.00 | 156 15.00 | 2090 | 0 | 1.0 | | | Wood-Anderson |
| HILO Z | HIL | 19 43.20 | 155 5.30 | 20 | 3 | 1.0 | | | |
| HILO EW | HIE | 19 43.20 | 155 5.30 | 20 | 0 | 1.0 | | | Wood-Anderson |
| HILO NS | HIN | 19 43.20 | 155 5.30 | 20 | 0 | 1.0 | | | Wood-Anderson |
| KAMUELA | KAM | 20 1.90 | 155 42.00 | 740 | 2 | 0.7 | | | |
| KEALAKEKUA Z | KLK | 19 31.20 | 155 55.30 | 505 | 2 | 1.0 | | | |
| KEALAKEKUA EW | KLE | 19 31.20 | 155 55.30 | 505 | 2 | 0.34 | | | |
| KEALAKEKUA NS | KLN | 19 31.20 | 155 55.30 | 505 | 2 | 0.34 | | | |
| KIPAPA | KIP | 21 25.40 | 158 .90 | 76 | 3 | 0.56 | | | |
| UWEKAHUNA Z | UWE | 19 25.40 | 155 17.60 | 1240 | 3 | 0.7 | | | |
| UWEKAHUNA Z | USZ | 19 25.40 | 155 17.60 | 1240 | 4 | 1.0 | | | |
| UWEKAHUNA EW | USE | 19 25.40 | 155 17.60 | 1240 | 4 | 1.0 | | | |
| UWEKAHUNA PEZ | | 19 25.40 | 155 17.60 | 1240 | | | | | 15-90 Press Ewing |
| UWEKAHUNA PEE | | 19 25.40 | 155 17.60 | 1240 | | | | | |
| UWEKAHUNA PEN | | 19 25.40 | 155 17.60 | 1240 | | | | | |

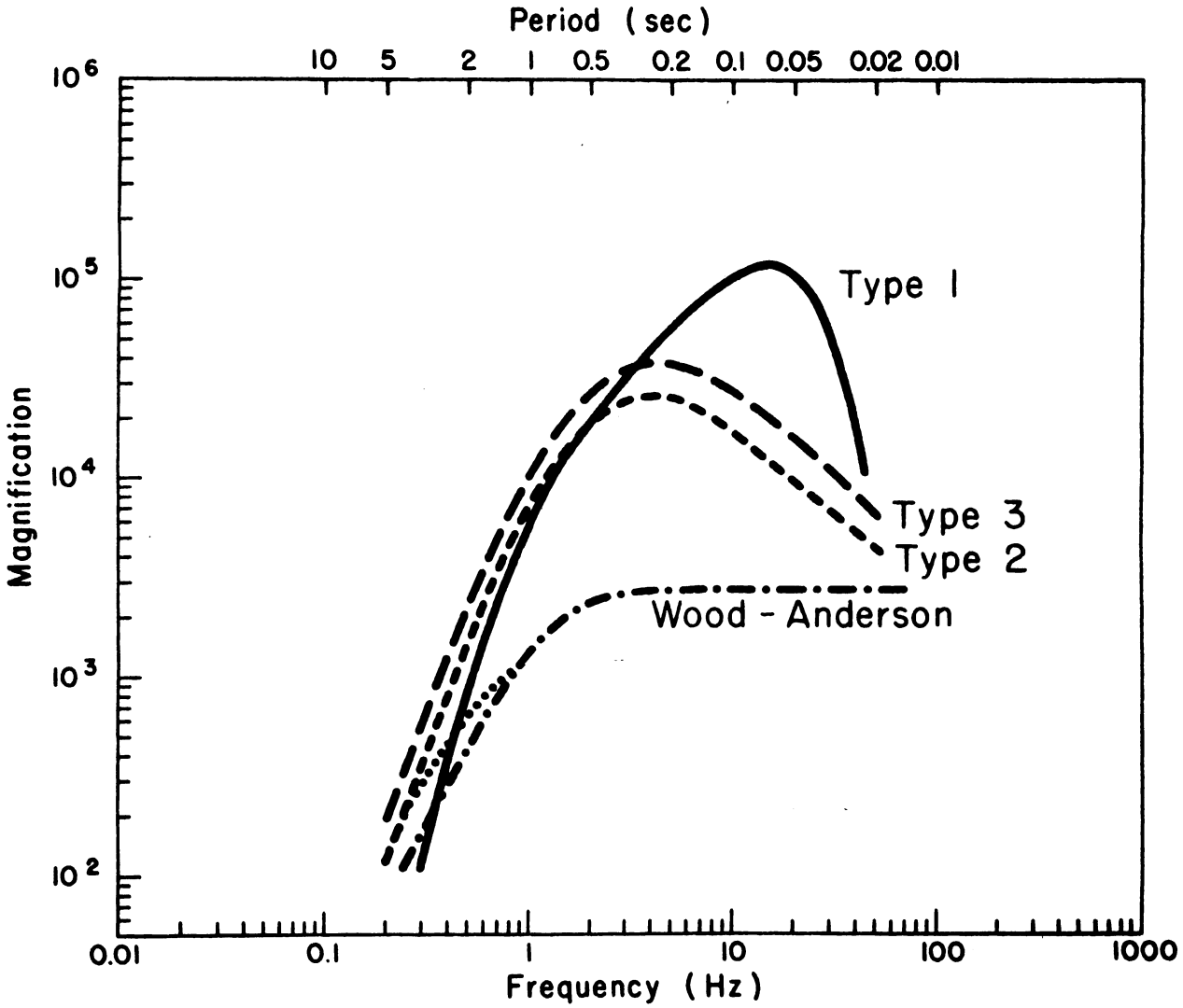


Figure 2.--System response curves for the Wood-Anderson torsion seismograph and for the four different types of seismometer-amplifier (or galvanometer) combinations in use by the Hawaiian Volcano Observatory.

Table 5.--Seismic Instrumentation Types

Type 1. Consists of:

a) EV-17 - Electrotech EV-17 1.0 sec. period moving magnet vertical component seismometer or horizontal component adjusted for an output of 0.5 volts/cm/sec. and 0.8 critically damped.

b) Preamp/VCO - Develco Model 6202 voltage controlled oscillator or a USGS/NCER Model JE202. 3 db points for bandpass filter at 0.1 Hz and 30 Hz. Signals are transmitted on audio FM carrier over cable or FM radio link to HVO.

Type 2. Consists of:

a) EV-17 - Electrotech EV-17 1.0 sec. period moving magnet vertical or horizontal component seismometer.

b) 3.5 Hz galvanometer with appropriate shunt resistances for critical damping. System is poorly calibrated.

Type 3. Consists of:

a) EV-17 Electrotech EV-17 (as described above), Hall-Sears HS-10 0.5 sec. period moving coil seismometer or Observatory-built 0.8 sec. period moving coil seismometer with HVO-built solid state seismic preamplifier (voltage gain, 200X), direct signal transmission over cable to HVO and HVO-built solid state amplifier and galvanometer driver, or Observatory-built electromagnetic seismometer with 2 Hz galvanometer. Peak magnification approximately 40,000 at 4 Hz.

Type 4. Consists of:

Sprengnether short period vertical and horizontal seismometers (E-W) with 1.5 sec. galvanometers, coupling factor = 0.25, 2X critically damped. Peak magnification approximately 1500X at 2 Hz.

Experimental type amplifier systems are not given type numbers.

## TILTING OF THE GROUND AROUND KILAUEA CALDERA

Tilting of the ground around the summit of Kilauea is monitored daily by a short-base water-tube tiltmeter in the Uwekahuna Vault, and at irregular intervals it is measured on a regional scale by means of a network of field tilt-bases and a portable water-tube tiltmeter. The attitude of the ground surface at each tilt-base is reported in terms of north-south and east-west tilt coordinates. Both coordinates at each station were arbitrarily set equal to 500 when measurements at that station were begun. Increasing tilt coordinates correspond to northward and eastward tilting of the earth's surface; that is, to a relative subsidence toward the north and east. A one-unit change in coordinate corresponds to a tilting of 1 microradian (1 mm per km) in the direction indicated.

Location of and essential data on each tiltmeter station are listed in Table 8, Summary 69.

Table 6.--Tilt Coordinates at Uwekahuna, April, May, and June 1973

| Date | N-S | E-W | Date | N-S | E-W |
|---|---|---|---|---|---|
| April 1 | 718 | 322 | June 3 | 726 | 310 |
| 8 | 718 | 321 | 10 | 727 | 313 |
| 15 | 717 | 324 | 17 | 730 | 310 |
| 22 | 717 | 324 | 24 | 730 | 306 |
| 29 | 726 | 308 | | | |
| May 6 | 722 | 307 | | | |
| 13 | 721 | 324 | | | |
| 20 | 724 | 317 | | | |
| 27 | 725 | 312 | | | |

Table 7.--Tilt coordinates and changes at bases around Kilauea caldera. (See fig. 3)

| Tilt base | Date (1973) | Tilt N-S | Coordinates E-W | Rate ($10^{-6}$ rad/mo) and direction of tilting since last reading | Date of last reading |
|---|---|---|---|---|---|
| Uwekahuna (U on fig. 3) | 14 May | 735.6 | 327.7 | 14.78 S68.2°W | 21 Mar '73 |
| Tree Molds (TM) | 15 May | 574.7 | 483.2 | 3.24 S 6.8°E | 21 Mar '73 |
| Sand Spit (SS) | 16 May | 1013.6 | 738.2 | 6.37 N83.1°E | 22 Mar '73 |
| Mehana (M) | 15 May | 613.9 | 600.1 | 0.83 S31.6°W | 21 Mar '73 |
| Keamoku (Kea) | 15 May | 771.5 | 242.7 | 5.33 S75.5°E | 22 Mar '73 |
| Ahua Kamokukolau (Kam) | 14 May | 407.8 | 527.2 | 14.14 N 8.5°W | 22 Mar '73 |
| Kipuka Nene (KN) | 16 May | 279.8 | 496.6 | 0.36 S87.0°W | 7 Dec '72 |
| Hilina Pali (HP) | Not occupied this epoch | | | | |
| Kapapala Ranch (Kap) | Not occupied this epoch | | | | |

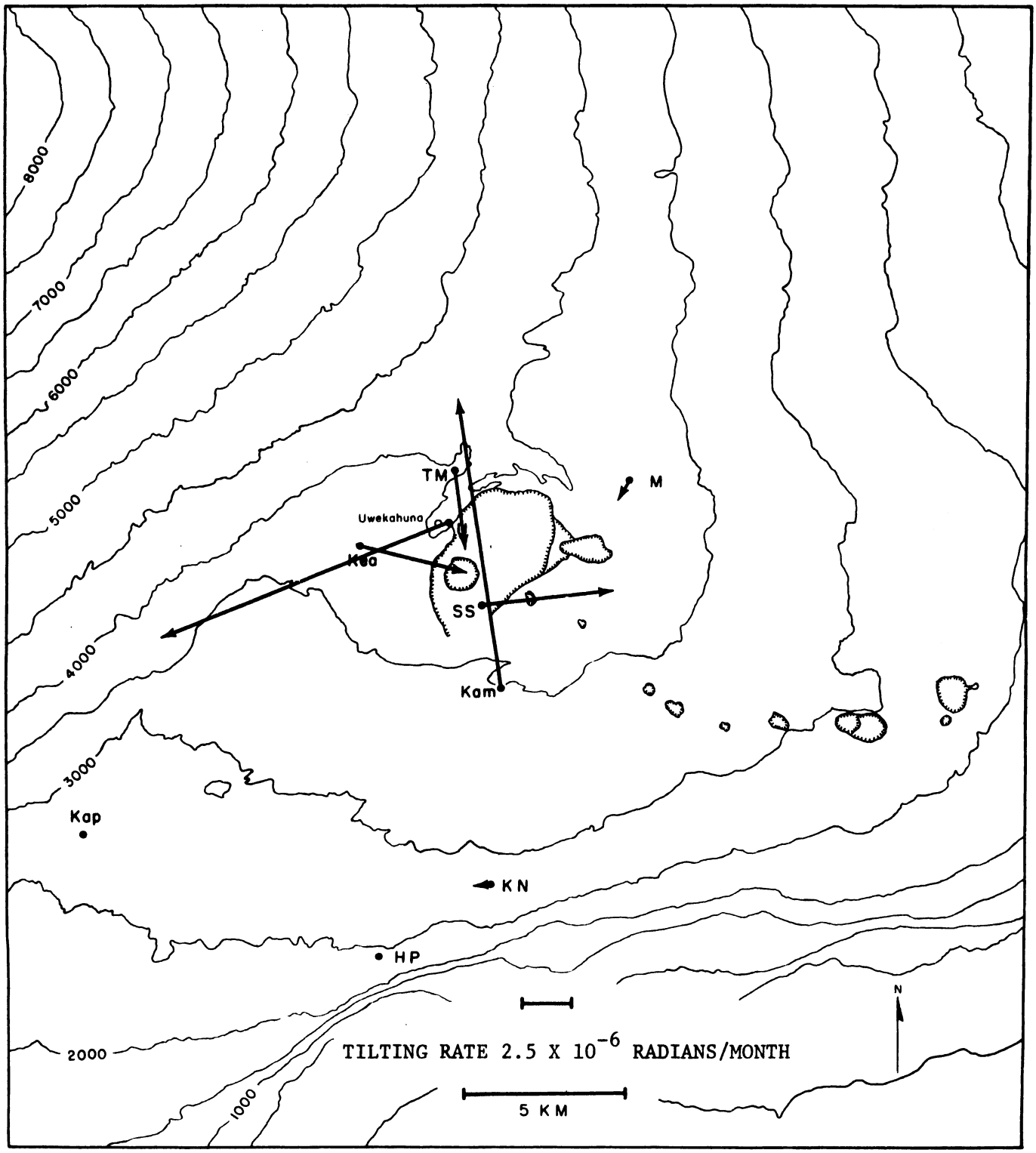


Figure 3.--Tilting of the ground around Kilauea Caldera. The vector depicting tilting at a given tilt base points in the direction of maximum relative subsidence, and its length is proportional to the rate of tilting during the measurement interval. Closed circles represent field tilt bases; open circles, short-base water-tube tiltmeters. See Table 7 for explanation of abbreviations.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# HAWAIIAN VOLCANO OBSERVATORY

## SUMMARY 71

July, August, and September 1973

By

Arnold T. Okamura, Marie S. Onouye,

and Akira Yamamoto

Chronological Summary

By

Robert I. Tilling

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## CHRONOLOGICAL SUMMARY

Visible eruptive activity during this quarter was minimal and confined entirely to Mauna Ulu. The declining pattern of lava-lake activity at the end of the last quarter continued, and by early July the western part of the lake had become completely crusted and characterized by a jumble of tilted "islands" or blocks above the solidified surface. The eastern part of the lava lake containing the still-active vent also became progressively more crusted. Though gradually decreasing in surface area, the active eastern part of the lava lake continued periodically to overflow its levee. By July 20, visible active lava rose to within nearly 10 m of the rim but was restricted to two small, roughly circular areas, about 10 m and 15 m in diameter respectively, one of which included the active vent. By July 25 no live lava was visible, and the crusted floor began to subside measurably.

This subsidence continued throughout the next several weeks, although its rate tapered off. By the end of August, the floor in the main (western) part of the crater sank to about 85 m below the rim, and the vent area in the eastern part to about 40 m. During this interval of subsidence and no visible activity, low-level harmonic tremor persisted, and Kilauea's summit tilt varied within a very narrow range, showing a net deflation of only a few microradians.

An increase in tremor amplitude marked the return of visible lava to Mauna Ulu on September 4. A small active lava lake reappeared in the crater, and its level soon rose to within about 60 m of the rim; low (5 m) fountains played along its eastern end. Later that day the tremor abruptly decreased, coinciding with the cessation of the low fountaining. The lake, however, persisted for a few more days, but circulation became progressively more sluggish. By September 7, the lake became entirely crusted, and by September 9 even the incandescence in the vent and in cracks on the lake surface disappeared. Mauna Ulu then remained lifeless until toward the end of the quarter, when visible activity again returned sometime during September 25-26. By the end of September, a full-fledged lava lake was again in operation, with circulating currents, random bubblers, and crustal overturns. Kilauea's summit tilt, which showed only small variations throughout nearly all of the quarter, began to show a marked inflation trend with the revival of substantial eruptive activity at September's end.

Drilling operations on an NSF-funded research drill hole south of Halemaumau ended on July 9 after reaching a depth of 1,262 m. Periodic thermistor logs, however, were run until August 23 to monitor the thermal recovery of the hole after drilling disturbance.

## SEISMIC SUMMARY

Events recorded by the U. S. Geological Survey seismograph network in Hawaii fall into two categories:

1) Local earthquakes and tremor originating in the region of the Hawaiian Islands (usually within 100 km of at least one seismograph), and

2) Distant earthquakes originating more than 3,000 km from Hawaii.

As an index of seismic activity at Hawaiian volcanoes, daily counts of earthquakes and minutes of tremor recorded by seismographs in Hawaii are listed in Table 1. The earthquakes are separated in groups on the basis of region of origin as determined by the analysis of records obtained daily at the Observatory (UWE, MLO, MLX, AHU, DES, NPT, WPT, MPH, OTL).

Computer locations of well-recorded events are listed in Table 2. The location of each seismograph station is listed in Table 4, along with a description of the equipment at each station.

Table 1.--Number of earthquakes and minutes of tremor recorded on seismographs around Kilauea

Tremor is separated into three categories: Deep, Intermediate, and Shallow, on the basis of relative amplitude on seismographs in the summit region. Unless otherwise stated, tremor is presumed to be associated with movement of magma within the central complex of Kilauea Volcano.

Earthquake categories are: Kilauea Summit 30 km, earthquakes from a source about 30 km beneath the summit region; Kilauea Summit Long-Period, earthquakes characterized by low-frequency waves that originate roughly 5 km beneath the summit region; Kilauea Summit Shallow, earthquakes a few km deep in the caldera region; SW Rift and Kaoiki, earthquakes along the southwest rift zone of Kilauea and the adjacent portions of the Kaoiki fault system; Upper East Rift, earthquakes from the upper east rift zone and the adjacent fault systems of Kilauea's south flank; Koae, earthquakes along the northeast-trending Koae fault system south of the caldera; Lower East Rift, earthquakes from the lower east rift zone of Kilauea; Offshore Puu Pili, offshore earthquakes mostly southeast of Puu Pili (PPL) station.

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | SW Rift and Kaoiki | Upper East Rift | Koae | Lower East Rift | Offshore Puu Pili | Remarks |
| | Deep | Inter-mediate | Shallow | 30 KM | Long Period | Shallow | | | | | | |
| July 1 | | | | 3 | 5 | 389 | 12 | 52 | 2 | 2 | | |
| 2 | | 4m | | 2 | 6 | 551 | 10 | 62 | 4 | 2 | 3 | |
| 3 | 35m | | | 1 | 25 | 635 | 15 | 55 | 11 | 4 | 9 | |
| 4 | 36m | | | 2 | 40 | 645 | 21 | 72 | 9 | 3 | 10 | |
| 5 | | 3m | | | 20? | 291? | 18 | 62? | 5 | | | |
| 6 | | | | | 23? | 195? | 13 | 46? | 3 | | 1 | |
| 7 | | 3m | | | 19 | 157? | 16 | 33 | 5 | 1 | 6 | |
| 8 | | 8m | | | 15 | 188 | 24 | 31 | 11 | 1 | 9 | |
| 9 | | | | 1 | 15 | 257 | 49 | 34 | 11 | 3 | 1 | |
| 10 | 17m | 10m | | | 15 | 256 | 31 | 67 | 9 | 10 | 1 | |
| 11 | | | | | 6 | 277 | 18 | 54 | 7 | 1 | 1 | |
| 12 | 30m | | | 2 | 24 | 266 | 33 | 46 | 8 | 2 | 2 | |
| 13 | | | | 1 | 15 | 276 | 16 | 49 | 7 | 7 | 4 | |
| 14 | 9m | 9m | | 3 | 64 | 247 | 20 | 67 | 11 | 1 | 2 | |
| 15 | | | | 3 | 44 | 244 | 26 | 77 | | 2 | 6 | |
| 16 | | | | | 7 | 295 | 26 | 57 | 3 | 1 | 2 | |
| 17 | | 3m | | 1 | 8 | 223 | 14 | 57 | 8 | 1 | 1 | |
| 18 | | | | | 6 | 249 | 11 | 37 | 5 | 2 | 2 | |
| 19 | | | | | 4 | 181 | 9 | 55 | 4 | 4 | | |
| 20 | | 3m | | | 10 | 149 | 19 | 54 | 4 | 1 | | |
| 21 | | | | | 5 | 134 | 17 | 68 | 7 | 3 | | |
| 22 | | 3m | | 1 | 7 | 126 | 10 | 38 | 3 | 1 | | |
| 23 | | | | | 20 | 101 | 5 | 112 | 1 | | 1 | |
| 24 | | | | 1 | 5 | 107 | 17 | 703 | 10 | 2 | | |
| 25 | | | | 1 | 4 | 76 | 21 | 703? | 7 | 3 | | Small Mauna Ulu rockfalls during last week of the month. |
| 26 | | | | | 20 | 105 | 26 | 323 | 5 | | 1 | |
| 27 | | | | 1 | 20 | 102 | 34 | 199 | 7 | 2 | 1 | |
| 28 | | | | 1 | 12 | 111 | 21 | 197 | 3 | 7 | 10 | |
| 29 | | | | 1 | 12 | 124 | 16 | 204 | | | | |
| 30 | | | | | 29 | 134 | 13 | 233 | 3 | | | |
| 31 | | | | | 6 | 95 | 10 | 206 | 3 | 9 | | |

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | SW Rift and Kaoiki | Upper East Rift | Koae | Lower East Rift | Offshore Puu Pili | Remarks |
| | Deep | Inter-mediate | Shallow | 30 KM | Long Period | Shallow | | | | | | |
| August 1 | | | | 1 | 8 | 138 | 12 | 134 | 3 | 1 | | Mauna Ulu rockfalls during first half of month. |
| 2 | | | | 1 | 26 | 116 | 19 | 197 | 3 | | 2 | |
| 3 | | 3m | | | 23 | ? | 17 | 215 | 3 | 1 | | |
| 4 | | | | | 19 | ? | 14 | 148 | 1 | 5 | | |
| 5 | | | | | 1 | ? | 13 | 76 | | | | |
| 6 | | | | | 16 | 73? | 16 | 48 | 2 | | | |
| 7 | | | | 1 | 12 | 161 | 27 | 87 | 7 | 1 | 2 | |
| 8 | 37m | | | 1 | 24 | 154 | 21 | 108 | 1 | 3 | 1 | |
| 9 | | 3m | | | 31 | 148 | 17 | 61? | 7 | 2 | | |
| 10 | | 11m | | 1 | 22 | 188 | 27 | 84 | 2 | 1 | 1 | |
| 11 | | 13m | | | 30 | 223 | 28 | 95 | 6 | 5 | 1 | |
| 12 | | | | | 15 | 153 | 16 | 67 | 4 | 3 | | |
| 13 | | 3m | | | 12 | 140 | 8 | 63 | 8 | 3 | 1 | |
| 14 | | 3m | | | 12 | 94 | 14 | 46 | 4 | 1 | 2 | |
| 15 | 8m | | | | 46 | 117 | 15 | 46 | 2 | 1 | 1 | |
| 16 | | | | 2 | 29 | 101 | 21 | 69 | 3 | 3 | | |
| 17 | | | | 1 | 33 | 98 | 30 | 63 | 8 | 3 | | |
| 18 | | | | 2 | 34 | 110 | 19 | 47 | 1 | 1 | 2 | |
| 19 | | 21m | | 1 | 57 | 149 | 18 | 26 | 4 | 3 | 2 | |
| 20 | | | | | 21 | 125 | 15 | 61 | 5 | 2 | | |
| 21 | 21m | | | | 15 | 137 | 5 | 64 | 5 | 48 | | Lower east rift swarm. |
| 22 | | 4m | | 1 | 23 | 118 | 18 | 62 | 5 | 43 | 1 | |
| 23 | | | | 1 | 29 | 93 | 22 | 43 | 4 | 203 | | |
| 24 | | | | 1 | 17 | 87 | 15 | 54 | 2 | 255 | | |
| 25 | | 34m | | | 47 | 94 | 13 | 71 | 3 | 172 | | |
| 26 | 6m | 3m | | | 68 | 91 | 8 | 61 | 5 | 132 | 1 | |
| 27 | 6m | | | | 43 | 95 | 11 | 72 | 3 | 75 | | |
| 28 | 3m | 7m | | | 13 | 118 | 10 | 74 | 1 | 50 | | |
| 29 | | | | 1 | 48 | 186 | 15 | 79 | 9 | 78 | | |
| 30 | | 4m | | | 42 | 168 | 8 | 41 | 4 | 61 | | |
| 31 | | ? | | | 25 | 426 | 11 | 101 | 5 | 71 | | |

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | SW Rift and Kaoiki | Upper East Rift | Koae | Lower East Rift | Offshore Puu Pili | Remarks |
| | Deep | Inter-mediate | Shallow | 30 KM | Long Period | Shallow | | | | | | |
| Sept. 1 | | 2m | | | 105 | 507 | 13 | 85 | 3 | 21 | | |
| 2 | | 3m | | | 15 | 170 | 9 | 50 | 4 | 25 | | |
| 3 | | | | | 7 | 259 | 16 | 120 | 5 | 17 | 12? | |
| 4 | 15m | 11m | | | 6 | 139 | 17 | 38 | 4 | 14 | 1 | |
| 5 | | 24m | | 1 | 32 | 92 | 9 | 63 | 5 | 23 | | |
| 6 | 4m | | | | 8 | 104 | 12 | 31 | 3 | 7 | 2 | |
| 7 | | 14m | | | 8 | 105 | 32 | 57 | 6 | 6 | | |
| 8 | | 7m | | | 19 | 93 | 13 | 33 | 6 | 30 | 1 | |
| 9 | | 6m | | | 67 | 139 | 21 | 64 | 8 | 111 | 1 | |
| 10 | | | | 3 | 55 | 160 | 23 | 77 | 11 | 63 | 4 | |
| 11 | 39m | 7m | | | 47 | 113 | 21 | 43 | 4 | 32 | | |
| 12 | | | | 1 | 23 | 126 | 26 | 56 | 8 | 63 | 6 | |
| 13 | | | | 1 | 8 | 165 | 19 | 38 | 7 | 41 | | |
| 14 | 41m | 3m | | | 16 | 185 | 10 | 66 | 9 | 67 | | |
| 15 | | | | 21 | 24 | 184 | 17 | 56 | 5 | 58 | | |
| 16 | | 6m | | 15 | 12 | 168 | 18 | 75 | 7 | 83 | | |
| 17 | | 11m? | | 3? | 25 | 142 | 17 | 75 | 5 | 37 | 1 | |
| 18 | | | | 4 | 20 | 132 | 12 | 69 | 2 | 36 | 3? | |
| 19 | 12m | 15m | | 1 | 62 | 112 | 10 | 58 | 2 | 57 | 2? | |
| 20 | | 17m | | 3 | 126 | 136 | 23 | 34 | 3 | 47 | 2 | |
| 21 | | 3m | | 2 | 93 | 128 | 10 | 54 | 6 | 44 | | |
| 22 | | | | 5? | 378 | 164 | 21 | 93 | 6 | 144 | 5 | |
| 23 | | | | 8 | 24 | 131 | 18 | 42 | 2 | 45 | | |
| 24 | | 8m | | 3 | 22 | 144 | 11 | 34 | 3 | 43 | 1 | |
| 25 | | | | 1 | 27 | 152 | 12 | 31 | 2 | 20 | | |
| 26 | | 10m | | | 19 | 138 | 39 | 27 | 2 | 10 | 1 | |
| 27 | | | | 1 | 10 | 153 | 12 | 24 | 1 | 10 | 1 | |
| 28 | | | | | 9 | 236 | 13 | 40 | 11 | 7 | | |
| 29 | | | | | 21 | 155? | 12 | 42 | 4 | 2 | | |
| 30 | | | | 3 | 4 | 182? | 22 | 43 | 4 | 10 | | |

Table 2 is a chronological listing of successfully located earthquakes. For each event the following data are presented:

Origin time in Hawaii Standard Time: date, hour (HR), *minute* (MN), and second (SEC).

Epicenter in degrees and minutes of north latitude (LAT N) and west longitude (LONG W). Poor convergence of the epicenter solution is indicated by "?".

Depth - depth of focus in km. Assumed depth is indicated by "x".

Mag - magnitude, if determined.

NO - number of stations used in locating earthquakes.

GAP - largest azimuthal separation in degrees between stations.

DMIN - epicentral distance in km to the nearest station.

ERT - standard error of the origin time in seconds.

ERH - standard error of the epicenter in km.

ERZ - standard error of the depth in km.

MD - mean deviation of the time residuals. $\left[= \sum_i R_i/NO\right]$ where $R_i$ is the observed seismic wave arrival time less the computed time at the $i^{th}$ station.

Q - solution quality of the hypocenter. This measure is intended to indicate the general reliability of each solution:

| Q | Epicenter | Focal Depth |
|---|---|---|
| A | Excellent | Good |
| B | Good | Fair |
| C | Fair | Poor |
| D | Poor | Poor |

Q is based both on the nature of the station distribution with respect to the earthquake and the statistical measures of the solution. These two factors are each rated independently according to the following scheme:

## Station Distribution

| | NO | GAP | DMIN |
|---|---|---|---|
| A | ≥ 8 | ≤ 120° | ≤ DEPTH or 5 km |
| B | ≥ 6 | ≤ 150° | ≤ 2 x DEPTH or 10 km |
| C | ≥ 6 | ≤ 225° | ≤ 50 km |
| | ≥ 4 | ≤ 180° | |
| D | Others | | |

## Statistical Measures

| | ERH(km) | ERZ(km) | MD(sec) | RMAX(sec)* |
|---|---|---|---|---|
| A | ≤ 1.0 | ≤ 2.0 | ≤ 0.10 | ≤ 0.25 |
| B | ≤ 2.5 | ≤ 5.0 | ≤ 0.20 | ≤ 0.50 |
| C | ≤ 5.0 | | ≤ 0.30 | ≤ 0.75 |
| D | Others | | | |

Q is taken as the average of the ratings from the two schemes, that is, an A and a C yield a B, and two B's yield a B. When the two ratings are only one level apart the lower one is used, that is, an A and a B yield a B (Hamilton and others, 1969).

The criteria for Q are the same as used by the Office of Earthquake Research and Crustal Studies, U. S. Geological Survey.

*RMAX is the maximum residual.

## SUMMARY OF SEISMIC EVENTS

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 1 | 0 | 31 | 31.4 | 19-22.1 | 155-48.4 | 9.2 | 2.8 | 23 | 188 | 13.3 | 0.17 | 1.4 | 1.5 | 0.16 | C |
| 1 | 2 | 38 | 42.2 | 19-20.7 | 155-13.2 | 5.8 | | 19 | 60 | 3.4 | 0.12 | 0.7 | 1.1 | 0.18 | B |
| 1 | 3 | 45 | 39.4 | 19-24.3 | 155-24.9 | 8.0* | | 10 | 141 | 5.8 | 0.07 | 0.6 | | 0.09 | C |
| 1 | 9 | 26 | 23.1 | 19-19.2 | 155-15.1 | 6.3 | | 24 | 88 | 4.3 | 0.06 | 0.5 | 0.5 | 0.14 | B |
| 1 | 15 | 17 | 15.3 | 19-19.0 | 155-13.6 | 6.2 | | 19 | 81 | 3.6 | 0.10 | 0.7 | 0.7 | 0.15 | B |
| 1 | 17 | 4 | 50.6 | 19-22.3 | 155-13.5 | 3.0 | | 10 | 100 | 1.5 | 0.08 | 0.4 | 1.1 | 0.06 | A |
| 1 | 21 | 2 | 26.8 | 19-48.3 | 155-18.9? | 11.4 | 3.2 | 32 | 128 | 9.9 | 0.08 | 0.9 | 1.3 | 0.13 | B |
| 1 | 23 | 12 | 58.3 | 19-50.3 | 155-19.6 | 16.7 | 3.6 | 36 | 133 | 5.9 | 0.10 | 0.7 | 2.0 | 0.13 | B |
| 2 | 1 | 10 | 40.3 | 19-10.6 | 155-13.4 | 41.9 | 2.4 | 30 | 198 | 11.9 | 0.27 | 1.3 | 2.3 | 0.12 | C |
| 2 | 2 | 35 | 48.4 | 19-20.5 | 155-17.2 | 28.9 | 2.4 | 28 | 72 | 0.8 | 0.13 | 0.7 | 1.2 | 0.12 | B |
| 2 | 2 | 47 | 9.7 | 19-13.9 | 155-17.9 | 27.9 | | 21 | 195 | 7.6 | 0.18 | 1.2 | 1.7 | 0.11 | C |
| 2 | 12 | 49 | 22.7 | 19-21.5 | 155- 5.1 | 2.9 | | 11 | 118 | 4.8 | 0.11 | 0.8 | 1.3 | 0.15 | B |
| 2 | 14 | 49 | 47.6 | 19-20.3 | 155-12.5 | 6.1 | 1.9 | 27 | 72 | 4.0 | 0.07 | 0.6 | 0.5 | 0.19 | B |
| 2 | 15 | 13 | 56.8 | 19-26.8 | 156- 2.0 | 14.0* | | 8 | 305 | 48.8 | 0.37 | 2.7 | | 0.09 | D |
| 2 | 16 | 0 | 51.2 | 19-22.1 | 155-13.3 | 3.2 | 2.3 | 12 | 92 | 1.4 | 0.15 | 0.7 | 2.1 | 0.12 | B |
| 2 | 17 | 19 | 11.8 | 19-47.6 | 155-10.7 | 13.8* | 2.3 | 19 | 181 | 18.8 | 0.16 | 1.3 | | 0.17 | C |
| 2 | 19 | 23 | 29.4 | 19-18.0 | 155-16.8 | 6.3 | 2.5 | 29 | 125 | 3.2 | 0.08 | 0.6 | 0.5 | 0.18 | C |
| 2 | 20 | 51 | 23.2 | 18-57.3 | 155-18.9 | 14.6* | | 23 | 251 | 27.6 | 0.29 | 2.0 | | 0.20 | D |
| 3 | 6 | 37 | 57.2 | 19-24.6 | 155-16.4 | 2.0 | 0.5 | 10 | 89 | 1.2 | 0.02 | 0.1 | 0.1 | 0.03 | A |
| 3 | 6 | 43 | 39.2 | 19-20.8 | 155-12.0? | 7.8 | 1.6 | 24 | 68 | 3.2 | 0.06 | 0.6 | 0.4 | 0.14 | B |
| 3 | 12 | 17 | 49.7 | 19-18.3 | 155-14.7 | 5.7 | 1.7 | 22 | 123 | 3.3 | 0.11 | 0.7 | 0.7 | 0.19 | B |
| 3 | 16 | 42 | 36.3 | 19-19.6 | 155-14.2 | 8.0* | 1.7 | 15 | 84 | 5.0 | 0.04 | 0.4 | | 0.08 | B |
| 3 | 21 | 36 | 53.9 | 19- 8.8 | 155-32.8 | 51.4 | | 21 | 210 | 8.8 | 0.59 | 2.7 | 5.0 | 0.15 | C |
| 3 | 22 | 9 | 50.5 | 18-50.0 | 155- 9.6 | 8.0* | | 27 | 275 | 48.2 | 0.67 | 4.3 | | 0.19 | D |
| 3 | 23 | 33 | 8.8 | 19-20.6 | 155-12.2 | 6.1 | 1.8 | 28 | 70 | 3.5 | 0.07 | 0.6 | 0.6 | 0.20 | B |
| 4 | 2 | 59 | 31.6 | 19-12.1 | 155- 7.7 | 37.8 | | 18 | 263 | 13.6 | 0.55 | 3.0 | 3.5 | 0.12 | D |
| 4 | 3 | 58 | 26.4 | 18-53.8 | 155- 8.3 | 8.0* | 3.0 | 33 | 258 | 43.4 | 0.41 | 2.6 | | 0.17 | D |
| 4 | 6 | 53 | 47.1 | 19-11.6 | 155-21.5 | 42.5 | | 17 | 168 | 11.7 | 0.39 | 1.6 | 3.6 | 0.13 | C |
| 4 | 6 | 54 | 10.5 | 19-11.3 | 155-21.4 | 37.1 | | 21 | 170 | 11.8 | 0.37 | 1.6 | 3.7 | 0.16 | C |
| 4 | 6 | 59 | 22.0 | 19-53.4 | 155- 6.5 | 48.2* | 3.6 | 35 | 222 | 18.9 | 0.12 | 1.2 | | 0.14 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 4 | 8 | 55 | 7.5 | 19-13.9 | 155-31.2 | 33.1 | | 13 | 131 | 10.0 | 0.60 | 3.0 | 5.8 | 0.17 | C |
| 4 | 9 | 28 | 31.1 | 19-19.4 | 155-15.3 | 4.8 | | 17 | 102 | 3.9 | 0.10 | 0.7 | 0.9 | 0.19 | B |
| 4 | 9 | 49 | 39.2 | 19-27.3 | 155-25.5 | 8.0* | 1.6 | 15 | 78 | 6.0 | 0.07 | 0.5 | | 0.12 | B |
| 4 | 16 | 32 | 13.2 | 19-20.7 | 155-11.4? | 7.0 | | 16 | 87 | 3.8 | 0.11 | 1.0 | 1.8 | 0.16 | B |
| 4 | 17 | 42 | 33.6 | 19-20.6 | 155-19.5? | 1.0 | 1.3 | 13 | 101 | 3.9 | 0.16 | 0.5 | 6.4 | 0.10 | B |
| 4 | 18 | 43 | 20.9 | 19-19.8 | 155-11.8 | 8.0* | | 14 | 85 | 5.1 | 0.06 | 0.5 | | 0.10 | B |
| 4 | 18 | 58 | 35.7 | 19-23.7 | 155-24.8 | 9.1 | 1.6 | 20 | 69 | 5.3 | 0.05 | 0.5 | 1.2 | 0.08 | A |
| 4 | 19 | 9 | 48.4 | 19-19.1 | 155-14.0? | 8.6 | | 11 | 88 | 4.0 | 0.22 | 1.3 | 3.1 | 0.16 | B |
| 4 | 19 | 59 | 20.4 | 19-27.9 | 155-51.3 | 4.1 | 2.5 | 21 | 224 | 22.1 | 0.28 | 1.6 | 1.2 | 0.14 | C |
| 4 | 22 | 21 | 28.4 | 19-25.0 | 155-23.9 | 8.0* | | 18 | 116 | 7.5 | 0.05 | 0.4 | | 0.09 | B |
| 4 | 22 | 56 | 3.1 | 19-25.7 | 155-26.7 | 5.0 | | 14 | 96 | 6.1 | 0.12 | 1.0 | 1.6 | 0.21 | C |
| 5 | 1 | 37 | 52.4 | 19-22.1 | 155-13.6 | 2.6 | | 11 | 88 | 1.7 | 0.16 | 0.8 | 3.2 | 0.13 | B |
| 5 | 2 | 17 | 35.1 | 19-22.3 | 155-13.1 | 5.9 | 1.4 | 18 | 74 | 0.8 | 0.07 | 0.5 | 0.6 | 0.11 | B |
| 5 | 6 | 33 | 7.0 | 19-28.4 | 155-15.0 | 33.6 | | 9 | 221 | 10.1 | 0.68 | 3.2 | 5.5 | 0.11 | C |
| 5 | 7 | 29 | 53.4 | 19-29.0 | 155-10.8 | 17.1 | | 14 | 227 | 10.1 | 0.24 | 1.7 | 2.3 | 0.09 | C |
| 5 | 7 | 51 | 32.3 | 19-54.9 | 155- 8.9 | 49.5 | | 27 | 222 | 20.5 | 0.39 | 1.8 | 3.3 | 0.14 | C |
| 5 | 9 | 3 | 21.7 | 19-22.4 | 155-23.0 | 7.2 | 1.5 | 11 | 87 | 4.1 | 0.09 | 0.6 | 1.6 | 0.09 | A |
| 6 | 7 | 7 | 23.6 | 19-22.2 | 155-12.5 | 4.9 | 1.7 | 13 | 72 | 0.5 | 0.10 | 0.5 | 1.2 | 0.11 | B |
| 6 | 17 | 17 | 16.0 | 19-10.4 | 155-35.3 | 6.4 | 2.3 | 12 | 138 | 8.8 | 0.21 | 1.5 | 1.3 | 0.22 | C |
| 7 | 12 | 12 | 28.4 | 19-21.5 | 155- 7.9 | 11.3 | | 11 | 172 | 3.5 | 0.37 | 1.9 | 3.4 | 0.15 | C |
| 7 | 23 | 54 | 40.3 | 19-25.5 | 155-26.4 | 8.0* | | 6 | 193 | 6.0 | 0.14 | 1.1 | | 0.08 | C |
| 8 | 4 | 17 | 40.7 | 18-57.6 | 155-28.3 | 31.1 | 3.7 | 33 | 230 | 20.5 | 0.35 | 1.9 | 2.9 | 0.15 | C |
| 8 | 4 | 36 | 46.8 | 19-19.9 | 155-13.0 | 8.0* | | 14 | 70 | 5.4 | 0.06 | 0.6 | | 0.13 | B |
| 8 | 4 | 50 | 28.1 | 19-22.3 | 155-23.3 | 6.2 | 2.1 | 29 | 58 | 3.9 | 0.07 | 0.6 | 0.5 | 0.21 | B |
| 8 | 8 | 6 | 9.9 | 18-56.1 | 155-28.0 | 32.4 | 2.6 | 22 | 239 | 21.5 | 0.35 | 1.8 | 2.9 | 0.12 | C |
| 8 | 11 | 9 | 34.8 | 19-18.5 | 155-15.1 | 9.7 | | 10 | 135 | 5.0 | 0.11 | 1.0 | 1.6 | 0.08 | B |
| 8 | 18 | 27 | 22.0 | 19-24.7 | 155-23.7 | 8.0* | 1.6 | 14 | 126 | 7.3 | 0.04 | 0.3 | | 0.07 | C |
| 8 | 19 | 46 | 19.4 | 19-51.0 | 156- 7.6 | 53.0 | 3.0 | 22 | 290 | 68.3 | 0.54 | 2.5 | 4.5 | 0.08 | C |
| 8 | 20 | 15 | 42.6 | 18-54.4 | 155-17.0 | 9.7 | 2.7 | 16 | 254 | 33.7 | 0.70 | 3.5 | 3.5 | 0.17 | D |
| 8 | 20 | 36 | 10.2 | 18-52.1 | 155-15.0 | 1.5* | 2.6 | 13 | 290 | 39.3 | 0.83 | 5.2 | | 0.17 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 8 | 21 | 44 | 8.4 | 19-22.8 | 155-45.3? | 4.2 | 2.8 | 26 | 171 | 17.6 | 0.85 | 1.4 | 6.0 | 0.23 | C |
| 8 | 23 | 13 | 55.1 | 19-21.9 | 155-24.3 | 6.6 | 2.1 | 31 | 45 | 3.5 | 0.08 | 0.7 | 0.6 | 0.25 | B |
| 9 | 2 | 46 | 56.1 | 19-11.8 | 155-47.3? | 0.0 | 2.6 | 16 | 241 | 18.9 | 0.41 | 4.0 | 18.8 | 0.22 | D |
| 9 | 3 | 18 | 13.6 | 19-25.7 | 155-16.0 | 19.1 | | 11 | 127 | 3.5 | 0.15 | 0.9 | 2.0 | 0.07 | B |
| 9 | 4 | 18 | 39.8 | 19-24.8 | 155-27.4 | 5.9 | 1.8 | 26 | 94 | 4.2 | 0.11 | 0.8 | 0.7 | 0.23 | B |
| 9 | 14 | 28 | 17.5 | 19-16.6 | 155-23.4 | 3.8 | 1.9 | 25 | 124 | 5.9 | 0.09 | 0.7 | 1.0 | 0.23 | C |
| 9 | 14 | 57 | 30.3 | 19-35.6 | 155- 6.0 | 8.0* | | 7 | 267 | 10.6 | 0.21 | 1.2 | | 0.04 | D |
| 9 | 17 | 17 | 22.0 | 19-16.4 | 155-23.1 | 3.2 | | 18 | 127 | 6.4 | 0.10 | 0.7 | 1.3 | 0.19 | B |
| 10 | 0 | 25 | 15.7 | 19-18.4 | 155-14.4 | 5.8 | | 18 | 118 | 2.9 | 0.10 | 0.6 | 0.7 | 0.14 | B |
| 10 | 1 | 27 | 26.7 | 19-22.6 | 155-22.6 | 3.2 | | 14 | 80 | 4.6 | 0.08 | 0.6 | 1.4 | 0.12 | B |
| 10 | 2 | 57 | 11.5 | 19-19.9 | 155-15.4 | 6.1 | 1.6 | 26 | 81 | 3.6 | 0.06 | 0.5 | 0.4 | 0.14 | A |
| 10 | 4 | 18 | 14.8 | 19-17.6 | 155-22.9 | 3.7 | 2.5 | 31 | 116 | 4.8 | 0.09 | 0.7 | 0.8 | 0.23 | B |
| 10 | 4 | 48 | 31.4 | 19-20.4 | 155- 8.6? | 8.0 | | 17 | 144 | 3.8 | 0.11 | 1.0 | 0.7 | 0.15 | C |
| 10 | 7 | 42 | 55.4 | 19-12.9 | 155-19.8 | 37.2 | | 21 | 166 | 9.6 | 0.35 | 1.7 | 3.2 | 0.14 | C |
| 10 | 15 | 37 | 10.8 | 19-34.5 | 155- 6.8 | 8.0* | | 11 | 139 | 9.5 | 0.08 | 0.7 | | 0.07 | C |
| 10 | 16 | 48 | 7.7 | 19-20.6 | 155-12.0? | 7.7 | 1.7 | 22 | 106 | 3.5 | 0.08 | 0.7 | 0.4 | 0.14 | B |
| 10 | 21 | 8 | 11.6 | 19-22.2 | 155-30.1? | 9.8 | | 15 | 99 | 4.3 | 0.10 | 0.9 | 1.3 | 0.14 | B |
| 11 | 3 | 49 | 38.8 | 18-57.1 | 155-28.1 | 29.4 | | 15 | 254 | 20.9 | 0.77 | 4.1 | 6.1 | 0.16 | D |
| 11 | 4 | 38 | 5.3 | 19-19.8 | 155-15.1 | 6.9 | | 15 | 132 | 4.1 | 0.09 | 0.6 | 0.6 | 0.11 | B |
| 11 | 5 | 17 | 40.5 | 19-18.6 | 155-13.4 | 5.8 | | 14 | 82 | 2.9 | 0.13 | 0.9 | 1.0 | 0.16 | B |
| 11 | 6 | 23 | 7.2 | 19-22.7 | 155-24.0 | 8.0* | | 10 | 102 | 4.8 | 0.06 | 0.5 | | 0.09 | B |
| 11 | 11 | 41 | 37.7 | 19-20.2 | 155-10.7 | 5.4 | | 20 | 105 | 3.7 | 0.12 | 0.8 | 1.0 | 0.23 | B |
| 11 | 12 | 37 | 23.8 | 19-20.7 | 155-11.6 | 6.9 | | 20 | 72 | 3.7 | 0.10 | 0.9 | 0.7 | 0.21 | B |
| 11 | 12 | 56 | 11.7 | 19-22.0 | 155-23.0 | 7.6 | | 10 | 86 | 3.4 | 0.13 | 0.7 | 1.7 | 0.07 | A |
| 11 | 13 | 43 | 20.9 | 20- 1.4 | 155-29.2 | 50.0 | 3.3 | 33 | 195 | 21.1 | 0.34 | 1.5 | 3.2 | 0.13 | C |
| 11 | 14 | 56 | 11.7 | 19-39.6 | 155- 3.7 | 0.9 | 2.6 | 18 | 227 | 33.1 | 2.45 | 1.8 | 8.1 | 0.16 | D |
| 11 | 16 | 27 | 24.1 | 19-20.9 | 155-24.4 | 8.0 | | 12 | 82 | 2.3 | 0.09 | 1.0 | 0.8 | 0.15 | B |
| 11 | 20 | 46 | 10.2 | 19-22.3 | 155-11.6 | 3.7 | 1.9 | 24 | 72 | 1.8 | 0.08 | 0.5 | 1.1 | 0.17 | B |
| 11 | 20 | 50 | 26.2 | 19-20.5 | 155-19.5 | 5.0 | 2.3 | 27 | 54 | 3.7 | 0.05 | 0.4 | 0.4 | 0.12 | B |
| 11 | 20 | 51 | 44.6 | 19-25.4 | 155-27.1 | 8.0* | | 9 | 209 | 5.4 | 0.22 | 1.4 | | 0.15 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 11 | 21 | 34 | 11.1 | 19-22.7 | 155-22.4 | 3.8 | 1.3 | 17 | 81 | 4.9 | 0.08 | 0.6 | 0.8 | 0.15 | B |
| 12 | 1 | 58 | 32.1 | 19-22.6 | 155-22.3? | 2.7 | 1.4 | 14 | 83 | 4.7 | 1.18 | 0.5 | 2.3 | 0.12 | B |
| 12 | 2 | 49 | 17.3 | 19-22.4 | 155-23.3 | 4.9 | | 12 | 93 | 4.0 | 0.17 | 0.5 | 2.1 | 0.09 | B |
| 12 | 3 | 43 | 51.7 | 19-22.2 | 155-13.0 | 4.6 | 1.4 | 15 | 93 | 0.7 | 0.13 | 0.6 | 1.4 | 0.12 | B |
| 12 | 4 | 31 | 34.4 | 19-22.5 | 155-22.5 | 5.6 | | 10 | 83 | 4.4 | 0.19 | 0.5 | 2.1 | 0.09 | B |
| 12 | 7 | 35 | 5.9 | 19-19.4 | 155-16.0 | 5.7 | | 24 | 95 | 2.8 | 0.07 | 0.5 | 0.5 | 0.17 | B |
| 12 | 11 | 23 | 30.5 | 19-22.8 | 155-17.1 | 15.1 | | 15 | 64 | 2.2 | 0.09 | 0.9 | 1.4 | 0.14 | B |
| 12 | 11 | 57 | 49.7 | 19-20.7 | 155-19.6 | 1.6 | 1.4 | 11 | 102 | 4.0 | 0.13 | 0.4 | 0.6 | 0.07 | A |
| 12 | 14 | 37 | 34.5 | 19-19.3 | 155-13.0 | 5.2 | | 15 | 78 | 4.2 | 0.10 | 0.8 | 0.9 | 0.17 | B |
| 12 | 15 | 3 | 47.9 | 19-18.7 | 155-16.8 | 6.1 | 1.7 | 20 | 128 | 2.7 | 0.08 | 0.6 | 0.5 | 0.14 | B |
| 12 | 22 | 0 | 7.6 | 19-13.5 | 155-26.6 | 8.0* | | 9 | 136 | 5.4 | 0.21 | 2.1 | | 0.26 | C |
| 12 | 22 | 28 | 50.0 | 19-23.0 | 155-14.3 | 22.6 | | 19 | 55 | 3.0 | 0.16 | 0.8 | 1.7 | 0.10 | B |
| 12 | 23 | 0 | 49.8 | 19-22.3 | 155-24.4? | 1.5 | | 13 | 120 | 4.4 | 0.20 | 0.8 | 1.2 | 0.12 | B |
| 13 | 3 | 7 | 57.6 | 19-18.6 | 155-13.6 | 4.8 | 1.6 | 17 | 86 | 2.8 | 0.09 | 0.7 | 0.7 | 0.15 | B |
| 13 | 4 | 41 | 56.8 | 19-20.3 | 155-19.8 | 1.9* | | 10 | 112 | 4.1 | 0.05 | 0.3 | | 0.07 | B |
| 13 | 6 | 15 | 19.1 | 19-55.5 | 155- 5.8 | 49.5 | 2.6 | 27 | 229 | 22.7 | 0.33 | 1.5 | 2.8 | 0.10 | C |
| 13 | 6 | 29 | 50.8 | 19-22.4 | 155-13.1 | 4.3 | 1.5 | 16 | 74 | 0.9 | 0.07 | 0.4 | 0.9 | 0.09 | A |
| 13 | 6 | 43 | 15.5 | 19-53.3 | 155- 5.1 | 43.2 | 3.0 | 33 | 226 | 18.6 | 0.37 | 1.8 | 3.2 | 0.15 | C |
| 13 | 8 | 4 | 31.1 | 19-23.7 | 155-24.0 | 8.0* | | 9 | 196 | 6.6 | 0.12 | 0.9 | | 0.10 | C |
| 13 | 11 | 37 | 14.4 | 19-27.4 | 155-23.6 | 6.8 | 1.6 | 14 | 87 | 4.4 | 0.11 | 0.9 | 0.8 | 0.20 | B |
| 13 | 11 | 51 | 45.9 | 19-25.5 | 155-15.9 | 1.4 | 2.4 | 22 | 50 | 0.3 | 0.08 | 0.4 | 0.3 | 0.12 | B |
| 13 | 11 | 55 | 46.1 | 19-19.7 | 155-20.2 | 3.9 | 1.6 | 10 | 139 | 4.2 | 0.12 | 0.4 | 2.3 | 0.08 | A |
| 14 | 4 | 0 | 36.0 | 19-21.1 | 155-24.9? | 7.3 | | 16 | 80 | 3.2 | 0.10 | 0.8 | 0.9 | 0.17 | B |
| 14 | 4 | 29 | 53.9 | 19-52.7 | 155- 4.6 | 39.4 | | 20 | 243 | 20.2 | 0.69 | 3.0 | 5.4 | 0.12 | D |
| 14 | 4 | 30 | 7.2 | 19-19.3 | 155-13.6 | 6.8 | 2.4 | 28 | 68 | 4.2 | 0.06 | 0.5 | 0.4 | 0.16 | B |
| 14 | 5 | 48 | 31.1 | 19-20.6 | 155-13.6 | 9.5 | | 11 | 188 | 5.2 | 0.30 | 1.3 | 2.5 | 0.10 | C |
| 14 | 6 | 57 | 6.7 | 19-18.6 | 155-15.1 | 9.8 | | 14 | 122 | 4.2 | 0.23 | 0.9 | 2.1 | 0.10 | B |
| 14 | 10 | 15 | 25.7 | 19-23.6 | 155-25.5? | 8.0 | 2.1 | 22 | 60 | 4.2 | 0.07 | 0.5 | 0.5 | 0.13 | B |
| 14 | 14 | 23 | 4.0 | 19-56.9 | 155-35.6 | 46.6 | 3.7 | 33 | 148 | 23.4 | 0.29 | 1.1 | 2.9 | 0.13 | B |
| 14 | 15 | 5 | 28.3 | 19-47.6 | 155-26.0 | 23.4 | 2.5 | 19 | 89 | 3.0 | 0.14 | 1.0 | 2.0 | 0.12 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 14 | 17 | 12 | 40.2 | 19-30.2 | 155-52.0 | 6.5 | 2.6 | 14 | 275 | 28.1 | 1.56 | 4.4 | 8.5 | 0.15 | D |
| 15 | 1 | 27 | 20.3 | 19-25.0 | 155-26.0 | 7.7 | 1.9 | 21 | 62 | 5.4 | 0.03 | 0.3 | 0.2 | 0.07 | A |
| 15 | 16 | 12 | 17.1 | 19- 9.7 | 155-23.5 | 35.9 | | 17 | 216 | 7.6 | 0.68 | 2.4 | 5.8 | 0.11 | C |
| 15 | 20 | 14 | 28.7 | 19-23.7 | 155-17.7 | 13.2 | | 18 | 60 | 1.4 | 0.05 | 0.6 | 0.4 | 0.11 | B |
| 15 | 22 | 37 | 29.2 | 19-20.9 | 155-20.6 | 25.4 | | 15 | 64 | 4.9 | 0.22 | 1.0 | 2.1 | 0.12 | B |
| 15 | 23 | 9 | 48.8 | 19-20.3 | 155-12.7 | 5.0 | 1.6 | 16 | 68 | 3.9 | 0.09 | 0.7 | 0.7 | 0.18 | B |
| 16 | 0 | 52 | 24.1 | 19-24.4 | 155-24.8 | 8.0* | 1.6 | 10 | 141 | 6.0 | 0.06 | 0.5 | | 0.08 | C |
| 16 | 6 | 10 | 21.9 | 19-23.9 | 155-24.4? | 0.0 | 1.6 | 14 | 125 | 6.2 | 2.72 | 0.7 | 5.4 | 0.13 | C |
| 16 | 17 | 21 | 56.4 | 19-55.3 | 155- 6.3 | 50.7 | | 18 | 234 | 25.2 | 0.50 | 2.2 | 4.1 | 0.11 | C |
| 16 | 18 | 22 | 37.4 | 19-21.0 | 155- 8.4 | 5.1 | 2.4 | 25 | 71 | 3.1 | 0.10 | 0.8 | 0.7 | 0.24 | B |
| 16 | 21 | 44 | 15.6 | 19-19.0 | 155-15.4 | 8.7 | | 13 | 113 | 4.1 | 0.17 | 0.9 | 1.9 | 0.12 | B |
| 17 | 0 | 54 | 2.4 | 20- 2.6 | 155-22.3 | 12.8 | 2.6 | 24 | 215 | 17.3 | 0.21 | 1.3 | 1.4 | 0.14 | C |
| 17 | 3 | 16 | 6.1 | 19-22.4 | 155- 4.7 | 3.3 | 1.8 | 19 | 139 | 5.6 | 0.11 | 0.7 | 0.8 | 0.16 | B |
| 17 | 5 | 20 | 6.9 | 19-21.7 | 155-26.1 | 4.3 | 2.0 | 21 | 117 | 3.1 | 0.10 | 0.8 | 0.9 | 0.25 | B |
| 17 | 5 | 21 | 28.2 | 19-21.8 | 155-25.6 | 7.5 | 2.9 | 28 | 64 | 3.8 | 0.08 | 0.6 | 0.5 | 0.19 | B |
| 17 | 6 | 53 | 45.4 | 19-32.1 | 155-42.9? | 5.7 | 2.4 | 12 | 161 | 13.2 | 0.63 | 1.0 | 4.7 | 0.12 | C |
| 17 | 10 | 34 | 54.1 | 19-37.1 | 156- 1.5 | 7.9 | 3.1 | 22 | 227 | 42.3 | 0.41 | 1.7 | 3.3 | 0.16 | C |
| 17 | 20 | 50 | 32.3 | 19-35.9 | 155-40.7 | 8.0* | 2.4 | 6 | 324 | 14.6 | 1.63 | 8.2 | | 0.04 | D |
| 18 | 0 | 45 | 24.4 | 19-50.8 | 155-19.9 | 17.1 | 2.4 | 13 | 130 | 5.0 | 0.14 | 1.2 | 2.3 | 0.13 | B |
| 18 | 4 | 41 | 25.4 | 19-27.7 | 155-26.7 | 7.0 | 2.5 | 30 | 78 | 7.1 | 0.09 | 0.7 | 0.6 | 0.20 | C |
| 19 | 1 | 17 | 23.4 | 19-22.0 | 155-12.5 | 3.6 | 1.4 | 11 | 101 | 0.9 | 0.10 | 0.5 | 1.2 | 0.09 | A |
| 19 | 4 | 58 | 28.4 | 19-19.0 | 155-21.1 | 4.1 | 1.8 | 23 | 101 | 4.5 | 0.08 | 0.7 | 0.8 | 0.17 | B |
| 19 | 6 | 11 | 59.4 | 19-23.1 | 155-22.6 | 8.0* | 1.5 | 16 | 91 | 5.2 | 0.05 | 0.4 | | 0.09 | B |
| 19 | 12 | 55 | 14.7 | 19-20.3 | 155-13.2 | 5.9 | 1.5 | 20 | 64 | 4.0 | 0.08 | 0.6 | 0.7 | 0.19 | B |
| 19 | 16 | 12 | 57.4 | 19-58.2 | 155-25.2 | 13.1 | 2.9 | 29 | 191 | 12.0 | 0.14 | 1.1 | 1.2 | 0.14 | C |
| 19 | 16 | 14 | 46.7 | 19-57.8 | 155-25.8 | 11.7 | 2.5 | 20 | 189 | 12.2 | 0.13 | 0.9 | 0.9 | 0.13 | C |
| 20 | 1 | 14 | 11.7 | 19-30.8 | 155-19.7? | 8.4 | 2.0 | 25 | 70 | 6.1 | 0.09 | 0.6 | 0.6 | 0.18 | B |
| 20 | 4 | 27 | 49.8 | 19-57.5 | 155-25.5 | 12.0 | 3.5 | 32 | 187 | 11.5 | 0.12 | 0.8 | 0.8 | 0.12 | C |
| 20 | 7 | 44 | 23.9 | 19-21.6 | 155-29.1? | 8.1 | 1.9 | 23 | 58 | 3.2 | 0.12 | 0.8 | 0.8 | 0.24 | B |
| 20 | 13 | 10 | 59.5 | 19-23.6 | 155-26.1? | 7.1 | 2.5 | 30 | 49 | 3.3 | 0.07 | 0.7 | 1.3 | 0.23 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 21 | 2 | 7 | 40.4 | 19-17.8 | 155- 0.4 | 35.6 | 2.4 | 28 | 221 | 6.0 | 0.27 | 1.4 | 2.0 | 0.11 | C |
| 21 | 8 | 57 | 8.5 | 19-21.1 | 155-24.4 | 8.5 | 2.4 | 28 | 66 | 2.6 | 0.05 | 0.6 | 1.1 | 0.16 | B |
| 21 | 17 | 5 | 34.8 | 20- 5.5 | 155-23.0 | 9.8 | 2.9 | 29 | 223 | 22.8 | 0.27 | 1.4 | 1.6 | 0.15 | C |
| 22 | 5 | 13 | 4.6 | 19-24.3 | 155-23.2 | 8.0* | 1.5 | 17 | 112 | 6.2 | 0.07 | 0.5 | | 0.12 | B |
| 22 | 9 | 32 | 39.2 | 19-16.1 | 155-23.2 | 8.0* | | 13 | 130 | 7.5 | 0.10 | 0.9 | | 0.18 | C |
| 22 | 9 | 35 | 16.5 | 19-16.2 | 155-23.3 | 4.8 | | 18 | 128 | 6.0 | 0.10 | 0.8 | 1.6 | 0.22 | C |
| 22 | 22 | 21 | 35.3 | 19-22.2 | 155-11.4 | 5.8 | 1.5 | 16 | 146 | 2.3 | 0.08 | 0.6 | 0.6 | 0.14 | B |
| 22 | 23 | 31 | 16.8 | 19-25.8 | 155-14.9 | 28.7 | 2.6 | 31 | 48 | 1.5 | 0.11 | 0.7 | 1.1 | 0.12 | B |
| 23 | 2 | 3 | 57.5 | 19-23.0 | 155-17.2 | 2.1 | | 9 | 173 | 0.9 | 0.06 | 0.3 | 0.1 | 0.04 | B |
| 23 | 13 | 16 | 10.0 | 19-25.8 | 155-22.3 | 6.9 | 2.0 | 12 | 110 | 4.5 | 0.08 | 0.5 | 0.7 | 0.10 | A |
| 23 | 20 | 26 | 58.2 | 20- 2.9 | 155-28.6 | 31.7 | 2.7 | 23 | 203 | 22.4 | 0.28 | 1.5 | 3.2 | 0.14 | C |
| 24 | 4 | 55 | 52.9 | 19-22.3 | 155-11.4 | 6.6 | 1.5 | 16 | 91 | 2.2 | 0.05 | 0.5 | 0.5 | 0.11 | B |
| 24 | 9 | 37 | 1.5 | 19-23.8 | 155-23.8 | 8.0* | | 8 | 114 | 6.7 | 0.12 | 1.1 | | 0.15 | B |
| 24 | 10 | 0 | 17.4 | 19-30.5 | 155-27.5 | 7.2 | 2.8 | 27 | 75 | 7.4 | 0.08 | 0.5 | 0.5 | 0.15 | B |
| 24 | 11 | 13 | 27.7 | 19-22.5 | 155-11.4 | 5.4 | 1.5 | 21 | 95 | 2.3 | 0.08 | 0.6 | 0.7 | 0.13 | B |
| 24 | 12 | 24 | 48.0 | 19-23.6 | 155-15.8 | 8.0* | | 10 | 109 | 10.8 | 0.13 | 1.3 | | 0.26 | C |
| 24 | 14 | 23 | 4.3 | 19-20.0 | 155-11.8 | 5.4 | | 17 | 83 | 4.8 | 0.09 | 0.7 | 0.7 | 0.18 | B |
| 24 | 14 | 25 | 38.6 | 19-20.5 | 155- 9.4 | 4.8 | | 13 | 76 | 3.0 | 0.12 | 0.9 | 1.2 | 0.20 | B |
| 24 | 14 | 41 | 40.6 | 19-18.7 | 155-16.0 | 4.6 | | 17 | 128 | 3.5 | 0.12 | 0.7 | 1.1 | 0.17 | B |
| 24 | 15 | 54 | 35.4 | 19-20.5 | 155-12.4 | 6.1 | | 14 | 69 | 3.6 | 0.12 | 0.8 | 1.0 | 0.15 | B |
| 24 | 16 | 50 | 7.0 | 19-18.6 | 155-16.0 | 5.2 | | 15 | 133 | 3.7 | 0.12 | 0.7 | 0.9 | 0.17 | B |
| 24 | 18 | 29 | 44.6 | 19-24.0 | 155-23.2 | 8.2 | 1.5 | 20 | 96 | 6.2 | 0.05 | 0.5 | 0.3 | 0.11 | A |
| 25 | 2 | 26 | 10.0 | 19-22.3 | 155-11.3 | 4.8 | 1.5 | 14 | 92 | 2.4 | 0.13 | 0.6 | 1.4 | 0.13 | B |
| 25 | 3 | 2 | 42.1 | 19-22.3 | 155-11.0 | 3.6 | | 10 | 93 | 2.1 | 0.05 | 0.3 | 0.7 | 0.05 | A |
| 25 | 5 | 16 | 26.9 | 19-22.2 | 155-10.3 | 2.5 | 1.6 | 15 | 105 | 0.8 | 0.13 | 1.0 | 1.6 | 0.18 | B |
| 25 | 6 | 3 | 16.8 | 19-27.1 | 155-16.6 | 26.4 | 2.3 | 30 | 51 | 3.3 | 0.09 | 0.6 | 1.0 | 0.12 | B |
| 25 | 7 | 37 | 31.6 | 19-57.1 | 155-26.5 | 11.1 | | 12 | 183 | 12.4 | 0.14 | 1.2 | 1.1 | 0.11 | C |
| 25 | 11 | 26 | 36.1 | 19-20.6 | 155-12.1 | 5.3 | | 22 | 73 | 3.4 | 0.11 | 0.8 | 0.9 | 0.22 | B |
| 25 | 13 | 42 | 46.0 | 19-21.9 | 155-11.6 | 2.7 | | 14 | 128 | 2.1 | 0.12 | 0.7 | 3.0 | 0.11 | B |
| 25 | 18 | 18 | 29.1 | 19-21.0 | 155-10.9 | 8.4 | | 8 | 106 | 2.7 | 0.04 | 0.3 | 0.6 | 0.04 | A |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 25 | 19 | 32 | 32.7 | 19-22.5 | 155- 9.1? | 1.4 | 1.6 | 15 | 99 | 1.5 | 0.12 | 0.9 | 1.8 | 0.17 | B |
| 25 | 21 | 44 | 52.6 | 19-22.3 | 155-11.5 | 5.7 | 1.8 | 20 | 92 | 2.1 | 0.07 | 0.5 | 0.7 | 0.13 | A |
| 25 | 23 | 44 | 14.8 | 19-21.8 | 155- 9.1 | 7.4 | | 10 | 190 | 1.4 | 0.19 | 1.4 | 0.7 | 0.16 | C |
| 26 | 0 | 15 | 57.1 | 19-25.3 | 155-28.7? | 7.8 | 1.8 | 21 | 70 | 5.5 | 0.10 | 0.9 | 1.5 | 0.18 | B |
| 26 | 18 | 10 | 55.3 | 19-22.2 | 155- 9.5 | 4.8 | 1.6 | 14 | 94 | 0.6 | 0.08 | 0.5 | 0.9 | 0.11 | B |
| 26 | 19 | 34 | 33.7 | 19-23.0 | 155-10.2? | 8.2 | 1.6 | 15 | 119 | 1.9 | 0.11 | 0.7 | 0.9 | 0.13 | B |
| 27 | 0 | 31 | 51.8 | 19-19.3 | 155-24.4 | 7.9 | 3.0 | 31 | 95 | 2.5 | 0.06 | 0.6 | 0.4 | 0.18 | A |
| 27 | 1 | 2 | 47.1 | 19-11.4 | 155-27.4 | 6.0 | 2.1 | 20 | 120 | 3.6 | 0.10 | 0.9 | 0.7 | 0.18 | B |
| 27 | 3 | 13 | 18.2 | 19-21.0 | 155- 8.3? | 2.9 | | 18 | 77 | 3.4 | 0.10 | 0.7 | 1.2 | 0.19 | B |
| 27 | 7 | 16 | 56.9 | 19-22.2 | 155-11.6 | 4.5 | 2.0 | 22 | 71 | 2.0 | 0.07 | 0.5 | 0.8 | 0.16 | B |
| 27 | 10 | 26 | 54.0 | 19-21.1 | 155- 7.8 | 2.8 | | 17 | 82 | 4.1 | 0.11 | 0.8 | 1.5 | 0.19 | B |
| 27 | 16 | 35 | 54.8 | 19-21.9 | 155- 9.6? | 2.2 | 2.4 | 26 | 74 | 0.6 | 0.08 | 0.6 | 0.8 | 0.20 | B |
| 27 | 21 | 13 | 39.9 | 19-21.1 | 155- 8.2 | 3.7 | 1.7 | 20 | 73 | 3.4 | 0.10 | 0.8 | 1.2 | 0.21 | B |
| 27 | 23 | 5 | 26.7 | 19-20.5 | 155-12.1 | 9.5 | | 17 | 74 | 3.7 | 0.08 | 0.4 | 1.0 | 0.08 | A |
| 28 | 0 | 0 | 16.3 | 19-19.8 | 155-12.9 | 5.6 | 2.0 | 25 | 73 | 4.9 | 0.08 | 0.6 | 0.6 | 0.19 | B |
| 28 | 2 | 18 | 54.2 | 19-20.3 | 155-13.3 | 5.5 | | 22 | 63 | 4.2 | 0.09 | 0.7 | 0.6 | 0.20 | B |
| 28 | 3 | 3 | 48.9 | 19-20.4 | 155-12.3 | 7.2 | | 15 | 72 | 3.8 | 0.10 | 0.7 | 0.7 | 0.15 | B |
| 28 | 4 | 5 | 44.2 | 19-20.7 | 155- 8.6 | 3.8 | | 15 | 73 | 3.3 | 0.11 | 0.8 | 1.2 | 0.19 | B |
| 28 | 9 | 26 | 18.5 | 19-25.4 | 155-21.8 | 5.0 | 1.5 | 16 | 100 | 4.5 | 0.09 | 0.7 | 0.9 | 0.17 | B |
| 28 | 9 | 38 | 33.8 | 19-59.9 | 155-34.0 | 52.4 | 2.9 | 28 | 174 | 26.4 | 0.44 | 1.6 | 4.3 | 0.13 | C |
| 28 | 11 | 58 | 35.2 | 19-19.6 | 155-13.0 | 8.0* | | 17 | 75 | 4.9 | 0.06 | 0.5 | | 0.12 | B |
| 28 | 14 | 21 | 7.7 | 19-19.5 | 155-13.1? | 7.8 | 1.7 | 20 | 75 | 4.6 | 0.07 | 0.6 | 0.4 | 0.13 | B |
| 28 | 14 | 30 | 23.2 | 19-19.2 | 155-13.6 | 6.6 | 1.9 | 16 | 77 | 4.1 | 0.11 | 0.8 | 0.8 | 0.18 | B |
| 28 | 16 | 17 | 5.1 | 19-20.2 | 155-20.5 | 28.3 | 2.1 | 19 | 71 | 4.9 | 0.17 | 0.9 | 1.7 | 0.12 | B |
| 28 | 18 | 22 | 58.9 | 19-22.8 | 155- 4.8 | 2.5 | | 16 | 139 | 6.3 | 0.13 | 0.9 | 1.7 | 0.19 | B |
| 28 | 18 | 39 | 18.2 | 18-52.8 | 155-15.3 | 4.1 | 3.2 | 23 | 262 | 37.8 | 1.54 | 2.4 | 9.0 | 0.12 | D |
| 28 | 19 | 7 | 19.4 | 19-13.0 | 155-31.9 | 5.6 | 2.3 | 15 | 76 | 9.6 | 0.10 | 0.8 | 0.8 | 0.17 | B |
| 29 | 9 | 33 | 45.8 | 19-21.0 | 155- 9.3 | 4.7 | 1.7 | 18 | 70 | 2.2 | 0.10 | 0.7 | 1.1 | 0.19 | B |
| 29 | 19 | 22 | 1.1 | 19-20.3 | 155-10.8 | 5.0 | | 16 | 103 | 3.7 | 0.11 | 0.7 | 0.9 | 0.18 | B |
| 30 | 5 | 34 | 35.3 | 19-21.5 | 155- 7.6? | 0.0 | 1.7 | 22 | 75 | 7.6 | 3.00 | 0.5 | 5.7 | 0.14 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL 30 | 5 | 59 | 37.5 | 19-24.4 | 155-16.3 | 13.0 | 2.6 | 32 | 34 | 1.1 | 0.03 | 0.5 | 0.3 | 0.11 | B |
| 30 | 13 | 0 | 51.0 | 19-20.4 | 155-12.3 | 5.7 | | 14 | 72 | 3.9 | 0.10 | 0.7 | 0.8 | 0.16 | B |
| 30 | 18 | 34 | 23.8 | 19-21.6 | 155- 8.0 | 10.1 | | 8 | 173 | 3.4 | 0.04 | 0.3 | 0.5 | 0.02 | B |
| 30 | 19 | 19 | 14.5 | 19-24.2 | 155-26.2 | 7.3 | 2.0 | 13 | 166 | 4.0 | 0.09 | 0.6 | 0.4 | 0.10 | B |
| 30 | 22 | 22 | 32.5 | 19-22.1 | 155- 9.6 | 2.9 | 2.2 | 24 | 75 | 0.4 | 0.07 | 0.5 | 0.6 | 0.16 | B |
| 31 | 6 | 33 | 23.3 | 19-20.5 | 155-12.2 | 7.6 | 3.2 | 31 | 71 | 3.7 | 0.05 | 0.5 | 0.3 | 0.16 | B |
| 31 | 9 | 26 | 40.0 | 19-20.1 | 155- 9.4 | 3.1 | 2.0 | 21 | 78 | 3.7 | 0.11 | 0.8 | 1.2 | 0.23 | B |
| AUG 1 | 2 | 10 | 9.1 | 19-22.5 | 155- 9.7 | 3.1 | 2.1 | 25 | 76 | 0.8 | 0.09 | 0.7 | 0.8 | 0.18 | B |
| 1 | 2 | 59 | 5.1 | 19-57.9 | 155-30.0 | 45.0 | 3.1 | 33 | 175 | 18.4 | 0.27 | 1.1 | 2.7 | 0.13 | C |
| 1 | 8 | 34 | 43.9 | 19-21.9 | 155- 9.5 | 4.6 | | 17 | 78 | 0.8 | 0.06 | 0.5 | 0.7 | 0.13 | B |
| 1 | 16 | 41 | 50.4 | 19-21.6 | 155-16.9 | 26.1 | 2.3 | 24 | 57 | 2.2 | 0.10 | 0.6 | 1.0 | 0.10 | B |
| 2 | 0 | 55 | 27.0 | 19-18.2 | 155-14.4 | 9.1 | | 12 | 122 | 2.7 | 0.14 | 0.7 | 1.6 | 0.10 | B |
| 2 | 4 | 5 | 51.6 | 19-23.9 | 155-25.3 | 7.5 | 2.2 | 25 | 57 | 4.9 | 0.07 | 0.5 | 0.5 | 0.11 | B |
| 2 | 6 | 32 | 55.3 | 19-22.1 | 155- 9.3 | 7.1 | 2.3 | 16 | 170 | 0.9 | 0.07 | 0.6 | 0.4 | 0.09 | C |
| 2 | 10 | 33 | 38.3 | 19-22.4 | 155- 9.4 | 4.4 | 1.9 | 17 | 95 | 1.0 | 0.11 | 0.7 | 1.1 | 0.16 | B |
| 2 | 13 | 9 | 45.4 | 19-22.1 | 155- 9.4 | 6.9 | 1.7 | 13 | 93 | 0.7 | 0.07 | 0.7 | 0.5 | 0.12 | B |
| 2 | 15 | 54 | 20.2 | 19-19.3 | 155-11.1? | 7.6 | | 15 | 135 | 5.5 | 0.10 | 0.9 | 0.6 | 0.14 | C |
| 3 | 2 | 25 | 20.1 | 19-17.5 | 155-11.7 | 4.0 | 2.0 | 23 | 161 | 3.3 | 0.13 | 0.8 | 1.0 | 0.22 | C |
| 3 | 2 | 39 | 17.9 | 19-12.3 | 155-31.7 | 5.7 | | 19 | 87 | 8.4 | 0.11 | 0.9 | 0.8 | 0.18 | B |
| 3 | 3 | 17 | 51.0 | 19-17.0 | 155-11.9 | 5.0 | 1.8 | 18 | 188 | 2.8 | 0.17 | 1.0 | 0.9 | 0.19 | C |
| 3 | 8 | 18 | 14.0 | 19-17.0 | 155-11.5 | 7.0 | 1.8 | 17 | 187 | 3.5 | 0.11 | 0.8 | 0.5 | 0.13 | C |
| 3 | 9 | 14 | 50.1 | 19-16.6 | 155-11.2 | 7.5 | | 16 | 203 | 4.0 | 0.12 | 0.8 | 0.4 | 0.11 | C |
| 3 | 11 | 39 | 26.3 | 19-16.8 | 155-11.3 | 7.1 | | 17 | 194 | 3.8 | 0.15 | 1.0 | 0.6 | 0.16 | C |
| 3 | 15 | 37 | 39.8 | 19-17.6 | 155-11.7 | 3.4 | | 18 | 157 | 3.3 | 0.14 | 0.9 | 1.4 | 0.20 | C |
| 3 | 15 | 54 | 24.4 | 19-17.2 | 155-11.3 | 4.3 | | 15 | 178 | 3.8 | 0.17 | 1.1 | 1.3 | 0.18 | C |
| 3 | 16 | 20 | 58.9 | 19-17.4 | 155-11.9? | 2.5 | 1.7 | 18 | 162 | 2.9 | 0.25 | 0.9 | 1.1 | 0.20 | C |
| 3 | 17 | 58 | 1.4 | 19-16.7 | 155-11.5 | 7.6 | | 13 | 203 | 3.5 | 0.11 | 0.8 | 0.4 | 0.10 | C |
| 3 | 17 | 59 | 59.1 | 19-17.5 | 155-11.2? | 0.7 | | 16 | 164 | 4.0 | 2.15 | 0.9 | 8.2 | 0.21 | C |
| 3 | 18 | 37 | 50.1 | 19-17.5 | 155-11.4 | 6.6 | 2.1 | 22 | 151 | 3.7 | 0.07 | 0.5 | 0.4 | 0.14 | C |
| 4 | 4 | 38 | 25.1 | 19-17.6 | 155-11.4 | 4.0 | 1.7 | 21 | 148 | 3.8 | 0.12 | 0.8 | 1.1 | 0.22 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG 4 | 21 | 41 | 19.2 | 19-21.1 | 155- 8.1? | 0.0 | 1.7 | 24 | 73 | 6.9 | 3.82 | 0.6 | 7.3 | 0.16 | C |
| 5 | 1 | 7 | 9.3 | 19-18.6 | 155-14.5 | 6.1 | 1.6 | 17 | 113 | 3.4 | 0.11 | 0.6 | 0.8 | 0.14 | B |
| 5 | 2 | 26 | 11.0 | 19-19.8 | 155- 9.3 | 3.7 | | 12 | 106 | 4.4 | 0.10 | 0.8 | 1.2 | 0.15 | B |
| 5 | 7 | 21 | 20.9 | 19-20.2 | 155- 9.8 | 9.1 | | 14 | 78 | 3.4 | 0.07 | 0.5 | 1.0 | 0.07 | A |
| 5 | 8 | 49 | 33.4 | 19-53.8 | 156- 5.7 | 0.4 | 3.4 | 33 | 251 | 41.8 | 0.33 | 2.6 | 1.0 | 0.17 | D |
| 5 | 11 | 22 | 24.3 | 19-19.2 | 155-13.8 | 7.5 | 1.6 | 19 | 83 | 4.1 | 0.09 | 0.7 | 0.5 | 0.16 | B |
| 5 | 14 | 24 | 4.2 | 19-22.5 | 155- 9.1 | 7.7 | | 10 | 181 | 1.6 | 0.15 | 1.4 | 0.7 | 0.13 | C |
| 5 | 21 | 26 | 3.3 | 19-21.4 | 155-11.0 | 8.2 | | 16 | 102 | 2.4 | 0.12 | 1.0 | 1.8 | 0.12 | B |
| 7 | 9 | 38 | 24.2 | 19-20.4 | 155-19.6 | 2.0* | | 6 | 109 | 4.0 | 0.08 | 0.6 | | 0.08 | C |
| 7 | 14 | 20 | 44.6 | 19-25.9 | 155-19.2? | 6.3 | | 8 | 177 | 4.1 | 0.38 | 3.4 | 5.0 | 0.39 | D |
| 7 | 18 | 32 | 43.2 | 19-19.6 | 155-12.4 | 8.0* | | 11 | 158 | 5.2 | 0.09 | 0.7 | | 0.09 | C |
| 7 | 21 | 34 | 13.8 | 19-24.5 | 155-24.0 | 8.4 | 2.5 | 25 | 58 | 7.4 | 0.07 | 0.6 | 0.5 | 0.15 | B |
| 8 | 3 | 11 | 53.3 | 19-10.2 | 155- 3.6? | 41.8 | 2.2 | 32 | 225 | 15.3 | 0.25 | 1.4 | 1.8 | 0.12 | C |
| 8 | 3 | 20 | 57.3 | 19-25.0 | 155-39.4 | 8.0* | 2.3 | 10 | 229 | 10.0 | 0.17 | 1.0 | | 0.08 | D |
| 8 | 3 | 59 | 32.0 | 19-23.9 | 155-23.2 | 7.5 | 2.6 | 28 | 56 | 6.1 | 0.05 | 0.5 | 0.4 | 0.17 | B |
| 8 | 4 | 21 | 14.6 | 19-23.8 | 155-23.2 | 8.0* | | 8 | 106 | 6.1 | 0.04 | 0.4 | | 0.06 | B |
| 8 | 4 | 23 | 16.3 | 19-23.9 | 155-23.1 | 8.0* | | 8 | 106 | 6.0 | 0.06 | 0.6 | | 0.09 | B |
| 8 | 4 | 26 | 19.9 | 19-24.0 | 155-23.1 | 8.0* | | 7 | 107 | 5.9 | 0.05 | 0.5 | | 0.07 | C |
| 8 | 4 | 29 | 23.0 | 19-23.9 | 155-23.1 | 8.0* | | 7 | 106 | 5.9 | 0.04 | 0.4 | | 0.05 | C |
| 8 | 4 | 41 | 39.0 | 19-23.7 | 155-22.7 | 8.0* | 1.4 | 14 | 60 | 5.2 | 0.05 | 0.5 | | 0.12 | B |
| 8 | 4 | 45 | 29.0 | 19-23.9 | 155-23.1 | 8.0* | | 7 | 106 | 6.0 | 0.04 | 0.4 | | 0.06 | C |
| 8 | 5 | 19 | 49.9 | 19-23.9 | 155-24.5 | 8.0 | 1.6 | 20 | 109 | 6.1 | 0.06 | 0.5 | 0.8 | 0.09 | A |
| 8 | 5 | 50 | 41.1 | 20- 0.9 | 155-27.9? | 9.2 | | 13 | 196 | 18.9 | 0.24 | 2.8 | 3.3 | 0.19 | C |
| 8 | 6 | 14 | 21.5 | 19-19.8 | 155-11.5 | 8.0* | | 10 | 91 | 5.1 | 0.04 | 0.3 | | 0.04 | B |
| 8 | 6 | 16 | 23.3 | 19-18.4 | 155-12.4? | 0.0 | | 9 | 186 | 3.1 | 7.83 | 2.4 | 15.9 | 0.13 | C |
| 8 | 9 | 48 | 8.6 | 19-22.2 | 155-26.0 | 8.3 | 2.0 | 14 | 107 | 2.9 | 0.06 | 0.5 | 1.1 | 0.09 | A |
| 8 | 9 | 53 | 53.6 | 19-20.5 | 155-12.2 | 6.2 | 2.3 | 28 | 72 | 3.7 | 0.07 | 0.6 | 0.5 | 0.21 | B |
| 8 | 11 | 16 | 47.1 | 19-20.4 | 155-12.7 | 8.2 | | 14 | 69 | 3.9 | 0.09 | 0.6 | 1.4 | 0.09 | A |
| 8 | 11 | 42 | 45.0 | 19-18.9 | 155-15.9 | 6.5 | 1.5 | 26 | 102 | 3.5 | 0.06 | 0.5 | 0.4 | 0.14 | B |
| 8 | 16 | 42 | 58.2 | 19-20.7 | 155- 9.8 | 5.5 | | 12 | 70 | 2.5 | 0.12 | 0.7 | 1.2 | 0.16 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG | 8 | 18 | 11 37.1 | 19-23.9 | 155-29.9 | 11.1 | 1.9 | 17 | 96 | 4.7 | 0.08 | 0.7 | 1.0 | 0.12 | B |
| | 8 | 19 | 27 12.4 | 19-21.9 | 155- 9.9 | 3.0 | 1.6 | 14 | 78 | 0.2 | 0.07 | 0.5 | 0.9 | 0.12 | B |
| | 8 | 19 | 44 26.1 | 19-23.0 | 155-24.0 | 8.0* | 1.6 | 17 | 66 | 5.3 | 0.06 | 0.5 | | 0.12 | B |
| | 8 | 22 | 28 56.0 | 20- 0.7 | 155- 0.5 | 51.8 | 2.7 | 32 | 264 | 33.4 | 0.56 | 2.7 | 3.9 | 0.13 | D |
| | 8 | 23 | 34 12.6 | 19-25.1 | 155-52.4 | 10.8 | | 5 | 261 | 16.8 | | | | 0.02 | D |
| | 9 | 2 | 29 53.2 | 19-34.5 | 155-53.4 | 14.4* | | 14 | 246 | 31.9 | 0.22 | 1.6 | | 0.13 | D |
| | 9 | 6 | 30 31.3 | 19-19.7 | 155-20.0 | 5.2 | | 13 | 136 | 4.0 | 0.15 | 0.5 | 1.5 | 0.09 | B |
| | 9 | 7 | 6 56.5 | 19-19.4 | 155-13.4 | 6.2 | 1.6 | 23 | 72 | 4.4 | 0.09 | 0.7 | 0.6 | 0.19 | B |
| | 10 | 8 | 20 8.1 | 19-12.3 | 155-16.2 | 43.9 | | 16 | 180 | 9.9 | 0.54 | 2.1 | 5.1 | 0.15 | C |
| | 10 | 8 | 20 37.4 | 19-11.8 | 155-16.2 | 43.7 | | 17 | 183 | 10.7 | 0.43 | 1.6 | 4.0 | 0.12 | C |
| | 10 | 8 | 25 12.2 | 19-10.8 | 155-14.9 | 36.8 | | 20 | 192 | 11.8 | 0.40 | 1.8 | 4.0 | 0.15 | C |
| | 10 | 8 | 44 44.9 | 19-21.1 | 155- 8.0 | 3.4 | | 21 | 80 | 3.7 | 0.10 | 0.7 | 1.0 | 0.20 | B |
| | 10 | 9 | 28 22.5 | 19-22.3 | 155-24.8 | 9.1 | | 13 | 96 | 4.6 | 0.12 | 0.7 | 1.7 | 0.12 | B |
| | 10 | 18 | 27 43.3 | 19-22.7 | 155-25.7 | 9.7 | 1.8 | 14 | 75 | 3.4 | 0.09 | 0.5 | 1.3 | 0.08 | A |
| | 10 | 23 | 49 53.8 | 19-23.5 | 155-25.0 | 8.0* | | 14 | 128 | 4.9 | 0.07 | 0.7 | | 0.11 | C |
| | 11 | 3 | 18 4.3 | 19-56.9 | 155-30.3 | 43.8 | 3.7 | 33 | 166 | 18.2 | 0.28 | 1.1 | 2.8 | 0.13 | C |
| | 11 | 9 | 26 30.2 | 19-23.0 | 155-49.2 | 10.5 | | 23 | 154 | 14.1 | 0.11 | 1.0 | 1.2 | 0.12 | C |
| | 11 | 11 | 34 0.0 | 19-22.0 | 155-24.0? | 8.3 | | 27 | 49 | 3.5 | 0.06 | 0.5 | 0.4 | 0.17 | P |
| | 11 | 13 | 9 50.3 | 19-19.2 | 155-13.9 | 5.8 | | 21 | 66 | 4.2 | 0.07 | 0.6 | 0.6 | 0.16 | B |
| | 11 | 19 | 17 32.4 | 19-20.6 | 155- 8.4 | 3.7 | | 20 | 81 | 3.8 | 0.11 | 0.8 | 1.0 | 0.20 | B |
| | 11 | 19 | 22 37.7 | 19-20.6 | 155- 9.4 | 4.9 | | 23 | 77 | 2.9 | 0.08 | 0.7 | 0.6 | 0.17 | B |
| | 11 | 22 | 43 24.4 | 19-23.5 | 155-23.2? | 8.2 | | 13 | 94 | 6.1 | 0.09 | 0.6 | 0.6 | 0.12 | B |
| | 11 | 23 | 25 5.8 | 19-19.5 | 155-16.6 | 4.6 | | 13 | 103 | 1.8 | 0.16 | 0.9 | 1.4 | 0.21 | B |
| | 12 | 13 | 42 55.0 | 19-25.0 | 155-21.9 | 6.3 | 1.8 | 23 | 91 | 4.4 | 0.07 | 0.6 | 0.5 | 0.18 | B |
| | 13 | 2 | 46 35.0 | 19-22.0 | 155-19.8? | 1.2 | 1.1 | 12 | 77 | 3.2 | 0.13 | 0.4 | 0.5 | 0.10 | B |
| | 13 | 2 | 47 31.9 | 19-27.9 | 155-23.9 | 7.2 | 2.1 | 20 | 154 | 3.7 | 0.09 | 0.7 | 0.4 | 0.14 | C |
| | 13 | 8 | 46 1.7 | 19-21.3 | 155-15.3 | 7.7 | 3.1 | 26 | 66 | 2.3 | 0.05 | 0.5 | 0.3 | 0.15 | B |
| | 13 | 13 | 43 7.8 | 19-19.6 | 155-13.5? | 5.0 | | 15 | 71 | 4.8 | 0.12 | 0.8 | 1.1 | 0.19 | B |
| | 13 | 23 | 32 20.5 | 19-11.8 | 155-27.4? | 5.4 | | 10 | 138 | 4.2 | 0.16 | 1.4 | 1.1 | 0.18 | B |
| | 14 | 5 | 30 26.7 | 19-19.0 | 155-13.6 | 6.5 | 1.6 | 23 | 68 | 3.6 | 0.07 | 0.6 | 0.5 | 0.16 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG | 14 | 6 | 17 20.0 | 19-20.2 | 155- 9.1 | 4.1 | | 17 | 73 | 3.6 | 0.10 | 0.7 | 1.1 | 0.19 | B |
| | 14 | 23 | 49 40.7 | 19-25.1 | 155-27.2? | 7.3 | 3.1 | 32 | 47 | 4.9 | 0.07 | 0.6 | 1.2 | 0.20 | B |
| | 15 | 6 | 48 18.8 | 19-24.9 | 155- 4.8? | 0.0 | 2.3 | 20 | 90 | 9.8 | 4.68 | 0.7 | 8.9 | 0.18 | C |
| | 15 | 9 | 44 28.6 | 19-23.4 | 155-28.8? | 6.3 | 1.9 | 20 | 88 | 2.7 | 0.13 | 1.3 | 1.9 | 0.28 | C |
| | 15 | 11 | 8 24.2 | 19-14.8 | 155-32.9 | 5.5 | 2.1 | 14 | 75 | 7.3 | 0.17 | 1.3 | 1.4 | 0.29 | C |
| | 15 | 20 | 41 20.9 | 19-33.5 | 155-40.9? | 8.4 | 2.9 | 18 | 99 | 11.6 | 0.11 | 0.6 | 0.7 | 0.11 | B |
| | 15 | 22 | 24 17.7 | 19-54.1 | 155-10.5 | 49.4 | 3.1 | 32 | 213 | 17.7 | 0.37 | 1.6 | 3.4 | 0.15 | C |
| | 16 | 1 | 17 13.4 | 19-20.1 | 155-13.4 | 4.4 | | 15 | 123 | 4.5 | 0.16 | 0.9 | 1.4 | 0.19 | C |
| | 16 | 10 | 19 40.0 | 19-10.7 | 155-17.2? | 8.0* | | 15 | 207 | 17.3 | 0.31 | 2.1 | | 0.33 | D |
| | 16 | 22 | 16 34.2 | 19-20.9 | 155- 8.9 | 3.9 | | 16 | 72 | 2.7 | 0.11 | 0.8 | 1.1 | 0.21 | B |
| | 17 | 0 | 53 35.1 | 19-19.9 | 155-10.4 | 4.4 | | 16 | 118 | 4.0 | 0.15 | 1.0 | 1.5 | 0.24 | B |
| | 17 | 1 | 0 16.8 | 19-20.2 | 155-13.4? | 5.7 | 1.5 | 21 | 65 | 4.4 | 0.10 | 0.8 | 0.9 | 0.22 | B |
| | 17 | 2 | 44 53.2 | 19-19.6 | 155-10.7 | 4.4 | | 12 | 128 | 4.8 | 0.14 | 1.2 | 1.5 | 0.23 | C |
| | 17 | 2 | 45 32.1 | 19-19.6 | 155-14.6 | 3.1 | | 11 | 184 | 4.9 | 0.18 | 1.1 | 1.7 | 0.14 | C |
| | 17 | 3 | 2 38.5 | 19-19.8 | 155-10.8 | 5.0 | | 19 | 91 | 4.6 | 0.12 | 0.8 | 1.1 | 0.22 | B |
| | 17 | 4 | 57 56.8 | 19-20.7 | 155-13.1 | 5.7 | | 26 | 61 | 3.3 | 0.08 | 0.6 | 0.6 | 0.22 | B |
| | 17 | 14 | 11 19.6 | 19-25.3 | 155-14.5 | 28.6 | 2.0 | 29 | 52 | 1.2 | 0.11 | 0.6 | 1.1 | 0.12 | B |
| | 18 | 10 | 28 15.2 | 19-31.1 | 155-48.3? | 8.0 | 2.5 | 13 | 202 | 35.8 | 0.21 | 2.1 | 2.1 | 0.13 | C |
| | 18 | 15 | 12 34.4 | 19-24.6 | 155-15.6 | 12.9 | 1.5 | 16 | 165 | 2.4 | 0.06 | 0.7 | 0.4 | 0.09 | B |
| | 18 | 18 | 20 38.1 | 19-27.2 | 155-51.6? | 3.0 | | 11 | 226 | 20.7 | 0.29 | 2.1 | 2.9 | 0.09 | C |
| | 18 | 19 | 27 49.8 | 18-59.9 | 155-18.0 | 3.0 | 2.4 | 20 | 243 | 24.7 | 0.52 | 1.9 | 2.2 | 0.14 | C |
| | 18 | 19 | 34 30.5 | 19-26.4 | 155-49.4 | 8.0 | 2.5 | 12 | 242 | 19.8 | 0.26 | 1.8 | 1.3 | 0.10 | C |
| | 18 | 20 | 20 26.2 | 19-18.7 | 155-14.6? | 6.0 | | 19 | 112 | 3.6 | 0.12 | 0.8 | 0.8 | 0.19 | B |
| | 19 | 9 | 44 23.8 | 19-25.2 | 155-24.3 | 8.0* | 1.6 | 12 | 143 | 7.7 | 0.07 | 0.5 | | 0.10 | C |
| | 19 | 23 | 2 25.6 | 19-20.6 | 155- 9.4 | 5.2 | | 15 | 78 | 2.8 | 0.12 | 0.9 | 1.2 | 0.19 | B |
| | 20 | 16 | 30 31.0 | 19-19.8 | 155-24.2 | 7.7 | | 9 | 166 | 1.8 | 0.07 | 0.6 | 0.4 | 0.07 | B |
| | 20 | 21 | 6 8.2 | 19-20.3 | 155- 7.7 | 8.5 | | 13 | 143 | 5.0 | 0.21 | 1.6 | 3.0 | 0.19 | B |
| | 20 | 23 | 9 28.7 | 19-19.5 | 155-12.2 | 8.0* | | 7 | 182 | 6.2 | 0.10 | 0.9 | | 0.06 | C |
| | 21 | 4 | 15 41.7 | 19-20.1 | 155-19.3 | 5.1 | 2.8 | 28 | 54 | 3.3 | 0.04 | 0.3 | 0.3 | 0.12 | B |
| | 21 | 5 | 20 5.2 | 19-23.4 | 155- 4.4 | 3.3 | 1.9 | 16 | 150 | 6.9 | 0.13 | 0.9 | 1.0 | 0.18 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG 21 | 6 | 15 | 12.3 | 19-22.5 | 155-24.0 | 9.4 | | 13 | 94 | 4.3 | 0.12 | 0.7 | 1.7 | 0.11 | B |
| 21 | 7 | 9 | 22.9 | 19-18.2 | 155-16.5? | 8.3 | | 14 | 152 | 3.7 | 0.21 | 1.1 | 1.9 | 0.12 | C |
| 21 | 7 | 11 | 9.3 | 19-23.9 | 155-15.9 | 14.8 | | 15 | 106 | 2.7 | 0.07 | 0.7 | 1.0 | 0.09 | A |
| 21 | 7 | 42 | 1.7 | 19-24.7 | 155-23.6 | 8.0* | | 7 | 124 | 7.1 | 0.08 | 0.7 | | 0.11 | C |
| 21 | 9 | 28 | 56.7 | 19-23.6 | 155-16.4 | 14.5 | | 17 | 69 | 1.1 | 0.08 | 0.7 | 1.0 | 0.12 | B |
| 21 | 12 | 51 | 48.9 | 19-28.5 | 155-24.9 | 10.7 | | 18 | 78 | 3.8 | 0.06 | 0.6 | 0.7 | 0.10 | B |
| 21 | 14 | 15 | 47.4 | 19-19.5 | 155-15.9 | 5.8 | 1.5 | 21 | 102 | 2.9 | 0.09 | 0.7 | 0.6 | 0.18 | B |
| 21 | 15 | 5 | 30.1 | 19-40.9 | 154-57.9 | 5.0 | 2.7 | 16 | 268 | 22.1 | 1.11 | 6.5 | 2.8 | 0.21 | D |
| 21 | 16 | 20 | 14.3 | 19-19.3 | 155-13.4 | 6.5 | | 18 | 73 | 4.2 | 0.09 | 0.6 | 0.6 | 0.13 | B |
| 21 | 19 | 0 | 15.8 | 19-14.4 | 155-27.4 | 9.5 | 2.3 | 29 | 105 | 3.8 | 0.07 | 0.7 | 1.0 | 0.20 | B |
| 21 | 22 | 38 | 43.3 | 19-20.1 | 155-12.1 | 6.8 | 2.6 | 30 | 77 | 4.4 | 0.07 | 0.6 | 0.4 | 0.20 | B |
| 21 | 23 | 30 | 16.8 | 19-13.2 | 155- 4.0 | 49.0* | | 21 | 279 | 19.4 | 0.17 | 1.8 | | 0.09 | D |
| 22 | 1 | 9 | 38.6 | 19-56.4 | 155- 2.2 | 49.2 | 2.7 | 25 | 238 | 25.0 | 0.49 | 2.3 | 3.9 | 0.13 | D |
| 22 | 5 | 25 | 14.3 | 19-19.3 | 155-10.4 | 8.0* | | 9 | 120 | 5.2 | 0.06 | 0.5 | | 0.06 | B |
| 22 | 5 | 36 | 20.6 | 19-19.8 | 155-11.0? | 2.1 | | 20 | 98 | 4.6 | 0.13 | 0.8 | 1.4 | 0.22 | B |
| 22 | 5 | 50 | 42.3 | 19-21.7 | 155-26.0 | 11.1 | | 17 | 80 | 3.3 | 0.13 | 0.7 | 1.6 | 0.11 | B |
| 22 | 15 | 12 | 24.4 | 19-54.1 | 156-26.6 | 5.6 | 2.7 | 14 | 289 | 67.8 | 0.43 | 5.6 | 7.1 | 0.15 | D |
| 22 | 20 | 57 | 49.8 | 19-20.9 | 155-14.6 | 25.6 | 2.0 | 28 | 64 | 3.5 | 0.10 | 0.7 | 1.0 | 0.11 | B |
| 23 | 3 | 39 | 1.7 | 19-23.3 | 155-23.0 | 7.0 | | 15 | 91 | 5.8 | 0.09 | 0.6 | 0.7 | 0.12 | B |
| 23 | 4 | 29 | 43.8 | 19-18.3 | 155-13.3? | 8.4 | | 15 | 88 | 2.4 | 0.08 | 0.6 | 0.4 | 0.11 | B |
| 23 | 5 | 34 | 56.5 | 19-23.3 | 155-23.1 | 7.9 | | 12 | 90 | 5.6 | 0.07 | 0.6 | 1.3 | 0.10 | A |
| 23 | 5 | 36 | 54.8 | 19-21.3 | 155- 8.8 | 4.1 | 1.7 | 18 | 76 | 2.2 | 0.10 | 0.8 | 1.0 | 0.20 | B |
| 23 | 6 | 58 | 55.2 | 19-19.4 | 155-16.1 | 6.4 | | 17 | 106 | 2.6 | 0.12 | 0.8 | 0.8 | 0.18 | B |
| 23 | 9 | 2 | 16.4 | 19-24.2 | 155-19.4 | 9.8 | | 14 | 87 | 1.1 | 0.14 | 1.2 | 1.4 | 0.18 | B |
| 23 | 9 | 23 | 32.4 | 19-23.0 | 155-23.3 | 6.7 | 2.0 | 23 | 63 | 5.2 | 0.07 | 0.7 | 0.7 | 0.18 | C |
| 23 | 9 | 27 | 22.3 | 19-23.2 | 155-23.3 | 8.0* | | 10 | 100 | 5.5 | 0.05 | 0.5 | | 0.08 | B |
| 23 | 9 | 53 | 29.9 | 19-23.4 | 155-25.6 | 12.4 | | 14 | 111 | 3.9 | 0.11 | 1.1 | 1.1 | 0.16 | B |
| 23 | 10 | 24 | 49.3 | 19-22.8 | 155-14.0 | 9.6 | | 14 | 71 | 2.4 | 0.12 | 1.0 | 1.3 | 0.16 | B |
| 23 | 20 | 18 | 27.3 | 19-19.4 | 155-15.9 | 8.7 | | 12 | 137 | 3.0 | 0.14 | 1.0 | 1.8 | 0.13 | B |
| 23 | 22 | 49 | 25.6 | 19-23.1 | 155-23.3 | 8.0* | | 9 | 128 | 5.4 | 0.04 | 0.4 | | 0.05 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG 24 | 2 | 7 | 49.1 | 19-21.6 | 155-47.3? | 6.1 | | 13 | 194 | 13.6 | 0.10 | 0.8 | 0.8 | 0.09 | C |
| 24 | 3 | 57 | 10.2 | 19-22.4 | 155-23.3 | 5.5 | | 12 | 92 | 4.0 | 0.11 | 0.7 | 1.1 | 0.14 | B |
| 24 | 6 | 32 | 50.5 | 19-23.1 | 155-22.9? | 0.5 | | 12 | 94 | 5.4 | 1.46 | 0.5 | 5.5 | 0.12 | C |
| 24 | 17 | 45 | 40.3 | 19-18.3 | 155-16.1 | 5.6 | | 15 | 164 | 3.9 | 0.16 | 0.9 | 1.1 | 0.19 | C |
| 24 | 21 | 23 | 13.0 | 19-22.5 | 155- 3.8 | 3.5 | | 13 | 157 | 5.0 | 0.12 | 0.8 | 1.1 | 0.15 | C |
| 24 | 22 | 51 | 56.6 | 19-21.2 | 155-25.0 | 9.4 | | 12 | 120 | 3.4 | 0.12 | 0.9 | 1.3 | 0.13 | B |
| 24 | 23 | 21 | 23.6 | 19-20.4 | 155- 7.8? | 5.0 | | 19 | 86 | 4.7 | 0.13 | 1.0 | 1.2 | 0.25 | B |
| 25 | 4 | 58 | 42.5 | 19-19.4 | 155-16.4? | 7.5 | | 10 | 214 | 2.1 | 0.34 | 2.1 | 0.9 | 0.13 | C |
| 25 | 8 | 13 | 20.0 | 19-21.3 | 155-16.2 | 24.9 | | 16 | 98 | 2.0 | 0.16 | 0.8 | 1.7 | 0.10 | A |
| 25 | 11 | 5 | 44.0 | 19-19.7 | 155-14.8 | 5.0 | 1.6 | 18 | 182 | 4.7 | 0.15 | 0.8 | 0.9 | 0.18 | C |
| 25 | 18 | 28 | 7.4 | 19-23.7 | 155- 3.6? | 0.0 | 2.1 | 16 | 109 | 7.1 | 5.57 | 0.9 | 10.6 | 0.23 | C |
| 26 | 6 | 1 | 10.3 | 19-22.4 | 155-23.1? | 1.4 | | 11 | 87 | 4.1 | 0.07 | 0.5 | 1.0 | 0.11 | B |
| 26 | 17 | 35 | 52.5 | 19-23.3 | 155-25.1 | 9.0 | 1.9 | 21 | 54 | 4.7 | 0.05 | 0.5 | 0.8 | 0.12 | B |
| 26 | 22 | 31 | 7.3 | 19-24.5 | 155-17.0 | 14.0 | 2.0 | 30 | 36 | 0.7 | 0.05 | 0.6 | 0.7 | 0.12 | B |
| 27 | 1 | 9 | 41.6 | 19-18.6 | 155-15.9 | 7.0 | 1.6 | 17 | 132 | 3.8 | 0.06 | 0.5 | 0.4 | 0.09 | B |
| 27 | 2 | 20 | 22.7 | 19-24.4 | 155-17.0 | 14.4 | 2.5 | 30 | 35 | 0.8 | 0.05 | 0.6 | 0.8 | 0.12 | B |
| 27 | 2 | 53 | 41.9 | 19-18.2 | 155-16.1 | 8.2 | | 10 | 169 | 4.2 | 0.14 | 1.1 | 1.8 | 0.10 | C |
| 27 | 6 | 45 | 23.2 | 19-22.8 | 155- 4.8? | 0.1 | 2.2 | 24 | 141 | 6.3 | 3.76 | 0.8 | 7.1 | 0.20 | C |
| 27 | 11 | 52 | 8.3 | 19-22.6 | 155-15.4 | 29.6 | | 19 | 80 | 1.0 | 0.14 | 0.9 | 1.4 | 0.11 | B |
| 27 | 13 | 59 | 53.9 | 19-19.0 | 155-10.1 | 8.0* | 1.8 | 18 | 110 | 4.8 | 0.05 | 0.4 | | 0.09 | B |
| 27 | 15 | 8 | 26.9 | 19-19.4 | 155-15.6 | 6.4 | 1.8 | 24 | 102 | 3.4 | 0.08 | 0.6 | 0.5 | 0.18 | B |
| 27 | 18 | 22 | 25.0 | 19-19.2 | 155-16.0 | 5.8 | | 15 | 113 | 3.1 | 0.10 | 0.6 | 0.9 | 0.15 | B |
| 28 | 2 | 10 | 9.6 | 19-20.1 | 155- 7.3 | 8.0* | | 15 | 100 | 5.2 | 0.12 | 1.1 | | 0.24 | B |
| 28 | 3 | 36 | 59.2 | 19-25.6 | 155-21.8 | 8.7 | 1.9 | 21 | 56 | 4.2 | 0.05 | 0.5 | 0.9 | 0.12 | B |
| 28 | 5 | 22 | 54.5 | 18-44.3 | 155-23.9 | 11.0* | 2.7 | 23 | 285 | 38.9 | 0.53 | 3.4 | | 0.14 | D |
| 28 | 9 | 34 | 37.8 | 19-11.0 | 155-38.0? | 8.8 | | 10 | 101 | 7.4 | 0.30 | 1.7 | 1.9 | 0.22 | B |
| 28 | 9 | 41 | 52.7 | 19-24.6 | 155-17.3 | 13.8 | 2.1 | 27 | 44 | 0.8 | 0.05 | 0.5 | 0.6 | 0.10 | B |
| 28 | 14 | 9 | 25.1 | 19-18.9 | 155-13.4 | 6.1 | 1.9 | 27 | 74 | 3.6 | 0.07 | 0.6 | 0.5 | 0.19 | B |
| 28 | 14 | 13 | 24.6 | 19-18.5 | 155-13.7 | 6.8 | 2.9 | 32 | 70 | 2.7 | 0.07 | 0.6 | 0.4 | 0.19 | B |
| 28 | 14 | 41 | 49.5 | 19-19.1 | 155-13.6 | 6.7 | | 15 | 79 | 3.8 | 0.10 | 0.7 | 0.8 | 0.11 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG 28 | 14 | 56 | 43.7 | 19-19.0 | 155-13.7 | 6.9 | | 15 | 84 | 3.6 | 0.09 | 0.6 | 0.6 | 0.13 | B |
| 28 | 15 | 36 | 8.4 | 19-18.8 | 155-13.4 | 7.8 | | 18 | 79 | 3.3 | 0.07 | 0.5 | 0.4 | 0.11 | B |
| 28 | 20 | 25 | 57.3 | 19-19.0 | 155-13.3? | 8.0 | 1.6 | 17 | 77 | 3.7 | 0.06 | 0.5 | 0.4 | 0.10 | B |
| 29 | 2 | 20 | 39.1 | 19-29.3 | 155-52.5 | 8.8 | 2.9 | 12 | 191 | 24.7 | 0.22 | 1.8 | 2.2 | 0.15 | C |
| 29 | 2 | 56 | 37.0 | 19-26.7 | 155-25.9 | 8.0* | 2.0 | 17 | 83 | 7.3 | 0.05 | 0.4 | | 0.09 | B |
| 29 | 12 | 6 | 41.6 | 19-13.5 | 154-39.6 | 10.2* | 3.1 | 31 | 292 | 37.3 | 0.88 | 5.4 | | 0.17 | D |
| 29 | 19 | 18 | 57.5 | 19-24.6 | 155-16.9 | 14.1 | 1.7 | 16 | 89 | 1.5 | 0.05 | 0.5 | 0.6 | 0.07 | A |
| 30 | 2 | 7 | 21.2 | 19-20.0 | 155-15.5 | 5.6 | 1.6 | 23 | 81 | 3.4 | 0.07 | 0.6 | 0.6 | 0.17 | B |
| 30 | 2 | 36 | 44.1 | 19-25.4 | 155-26.9? | 6.4 | | 19 | 64 | 5.4 | 0.10 | 0.9 | 2.2 | 0.22 | B |
| 30 | 4 | 9 | 1.5 | 19-22.4 | 155-25.4 | 6.5 | 2.2 | 26 | 52 | 4.0 | 0.08 | 0.7 | 0.6 | 0.20 | B |
| 30 | 10 | 46 | 55.1 | 19-28.9 | 155-55.7 | 8.1 | 2.9 | 11 | 282 | 34.5 | 1.35 | 7.6 | 3.3 | 0.17 | D |
| 30 | 14 | 50 | 37.8 | 19-19.7 | 155-12.9 | 7.0 | | 15 | 74 | 5.0 | 0.10 | 0.8 | 0.7 | 0.16 | B |
| 30 | 23 | 9 | 26.2 | 19-48.9 | 155- 0.2 | 49.2 | 3.4 | 34 | 229 | 12.7 | 0.44 | 1.9 | 3.5 | 0.15 | C |
| 31 | 1 | 54 | 39.1 | 19-21.7 | 155- 7.3 | 3.3 | 2.1 | 23 | 91 | 4.5 | 0.10 | 0.7 | 1.0 | 0.21 | B |
| 31 | 17 | 22 | 4.7 | 19-24.3 | 155-17.6 | 1.5 | 1.4 | 9 | 105 | 1.6 | 0.08 | 0.5 | 0.4 | 0.09 | A |
| 31 | 17 | 41 | 30.1 | 19-19.9 | 155-11.6 | 5.8 | 2.1 | 26 | 85 | 5.0 | 0.09 | 0.7 | 0.7 | 0.22 | B |
| 31 | 21 | 45 | 11.6 | 19-16.2 | 155-24.8 | 28.9 | 2.3 | 28 | 118 | 3.4 | 0.20 | 1.1 | 2.1 | 0.18 | B |
| 31 | 21 | 58 | 44.1 | 19-20.8 | 155-13.8 | 5.9 | | 20 | 103 | 4.7 | 0.10 | 0.7 | 0.6 | 0.18 | B |
| SEP 1 | 4 | 43 | 35.2 | 19-22.9 | 155- 5.4? | 0.0 | 2.1 | 25 | 130 | 6.9 | 3.59 | 0.7 | 6.8 | 0.20 | C |
| 1 | 5 | 1 | 23.5 | 18-50.2 | 155-14.9 | 8.0* | 2.6 | 27 | 275 | 42.3 | 0.72 | 4.6 | | 0.20 | D |
| 1 | 9 | 56 | 26.2 | 19-24.4 | 155-24.3 | 7.2 | 2.7 | 31 | 58 | 6.7 | 0.07 | 0.6 | 0.5 | 0.19 | B |
| 1 | 11 | 2 | 32.5 | 19-25.9 | 155-25.1? | 6.0 | 2.4 | 28 | 66 | 7.7 | 0.10 | 0.8 | 0.8 | 0.25 | C |
| 1 | 15 | 46 | 8.6 | 19-19.2 | 155-13.6 | 6.2 | | 23 | 78 | 4.1 | 0.08 | 0.6 | 0.6 | 0.16 | B |
| 1 | 20 | 56 | 28.7 | 19-20.1 | 155- 9.4 | 6.8 | 2.9 | 27 | 77 | 3.6 | 0.09 | 0.7 | 0.5 | 0.20 | B |
| 1 | 23 | 10 | 44.9 | 19-24.4 | 155-24.6 | 8.4 | | 21 | 59 | 6.4 | 0.08 | 0.9 | 2.2 | 0.16 | B |
| 2 | 1 | 3 | 39.4 | 19-21.6 | 155-16.4 | 25.8 | 2.1 | 20 | 61 | 1.7 | 0.16 | 0.8 | 1.6 | 0.11 | B |
| 2 | 3 | 15 | 58.9 | 19-24.5 | 155-16.9 | 1.9 | 1.7 | 10 | 71 | 0.7 | 0.07 | 0.5 | 0.3 | 0.09 | A |
| 3 | 14 | 5 | 35.3 | 19-42.6 | 156- 5.0? | 0.0 | 3.4 | 24 | 238 | 25.8 | 0.82 | 3.7 | 1.8 | 0.25 | D |
| 3 | 14 | 46 | 13.3 | 19-19.3 | 155-14.1 | 5.8 | 1.7 | 15 | 88 | 4.3 | 0.09 | 0.6 | 0.9 | 0.15 | B |
| 3 | 16 | 28 | 9.3 | 19-27.7 | 155-29.3 | 8.0* | 2.0 | 11 | 146 | 10.1 | 0.05 | 0.5 | | 0.06 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP 3 | 16 | 48 | 0.6 | 19-19.1 | 155-15.4 | 8.8 | | 13 | 112 | 4.0 | 0.16 | 0.9 | 1.8 | 0.11 | B |
| 3 | 18 | 25 | 5.9 | 18-45.7 | 155-24.8 | 11.4* | 2.8 | 25 | 286 | 36.1 | 0.61 | 3.9 | | 0.14 | D |
| 3 | 18 | 32 | 22.2 | 18-42.6 | 155-24.4 | 11.3* | | 12 | 307 | 40.6 | 2.47 | 15.5 | | 0.17 | D |
| 3 | 20 | 6 | 5.7 | 19-16.6 | 155-14.2 | 38.4 | | 13 | 205 | 1.5 | 1.75 | 7.0 | 13.7 | 0.24 | D |
| 4 | 1 | 57 | 44.3 | 19-19.8 | 155-13.6 | 8.0* | | 12 | 72 | 5.2 | 0.05 | 0.4 | | 0.08 | B |
| 4 | 2 | 49 | 30.7 | 19-19.9 | 155-11.9 | 4.6 | | 17 | 83 | 4.9 | 0.10 | 0.8 | 0.9 | 0.19 | B |
| 4 | 8 | 37 | 8.3 | 19-21.2 | 155-19.3 | 2.0 | | 8 | 86 | 3.9 | 0.14 | 0.4 | 0.6 | 0.07 | A |
| 4 | 12 | 2 | 53.0 | 19-19.4 | 155-14.7 | 10.2 | | 10 | 95 | 4.9 | 0.35 | 1.5 | 3.3 | 0.16 | B |
| 4 | 19 | 45 | 39.0 | 19-18.3 | 155-13.1? | 8.1 | 1.7 | 14 | 94 | 2.4 | 0.09 | 0.6 | 0.5 | 0.10 | B |
| 5 | 0 | 32 | 21.8 | 19-22.9 | 155-50.8 | 7.5 | | 10 | 234 | 13.0 | 0.30 | 3.1 | 2.6 | 0.10 | D |
| 5 | 10 | 56 | 7.1 | 19-24.9 | 155-16.3 | 12.9 | | 15 | 97 | 1.2 | 0.07 | 0.6 | 0.6 | 0.09 | B |
| 5 | 12 | 33 | 59.0 | 19-24.8 | 155-17.2 | 14.7 | | 25 | 64 | 0.4 | 0.05 | 0.5 | 0.6 | 0.10 | B |
| 5 | 20 | 15 | 31.3 | 19-34.2 | 155-40.2? | 7.3 | 2.8 | 17 | 97 | 11.6 | 0.06 | 0.5 | 0.9 | 0.10 | B |
| 5 | 21 | 41 | 13.1 | 19-11.0 | 155-24.1 | 32.3 | | 13 | 186 | 7.1 | 0.27 | 1.4 | 2.8 | 0.11 | C |
| 6 | 4 | 56 | 23.1 | 19-24.6 | 155-16.9 | 6.6 | 1.2 | 10 | 111 | 0.7 | 0.11 | 0.7 | 0.6 | 0.08 | A |
| 6 | 9 | 42 | 32.1 | 19-19.9 | 155-12.4 | 5.9 | 1.9 | 19 | 79 | 4.8 | 0.08 | 0.6 | 0.6 | 0.17 | B |
| 6 | 14 | 16 | 55.3 | 19-20.0 | 155- 8.5 | 5.4 | | 12 | 100 | 4.5 | 0.16 | 1.4 | 1.2 | 0.24 | B |
| 6 | 14 | 17 | 48.6 | 19-48.1 | 156- 3.2 | 23.9 | 3.2 | 20 | 236 | 25.8 | 0.24 | 1.6 | 3.8 | 0.12 | C |
| 6 | 18 | 22 | 19.8 | 19-19.2 | 155-15.6 | 9.0 | | 14 | 109 | 3.6 | 0.11 | 0.6 | 1.2 | 0.08 | A |
| 7 | 13 | 0 | 21.7 | 19-18.3 | 155-14.2 | 7.8 | 1.7 | 13 | 115 | 2.6 | 0.11 | 0.8 | 1.7 | 0.11 | B |
| 7 | 13 | 8 | 38.2 | 19-22.7 | 155-24.6? | 7.8 | 2.4 | 19 | 69 | 5.1 | 0.05 | 0.6 | 1.1 | 0.13 | B |
| 7 | 15 | 53 | 13.9 | 19-44.0 | 156- 9.9 | 42.6 | 2.9 | 12 | 254 | 34.6 | 0.47 | 2.3 | 4.5 | 0.11 | C |
| 8 | 1 | 23 | 14.6 | 19-23.6 | 155-24.7 | 7.9 | 1.6 | 21 | 74 | 5.6 | 0.06 | 0.6 | 1.5 | 0.13 | B |
| 8 | 2 | 40 | 7.8 | 19-17.2 | 155-15.4 | 6.6 | 1.7 | 25 | 143 | 3.4 | 0.08 | 0.6 | 0.5 | 0.16 | B |
| 8 | 2 | 54 | 44.3 | 19-20.2 | 155- 8.6 | 8.6 | | 16 | 75 | 4.1 | 0.06 | 0.5 | 1.0 | 0.07 | A |
| 8 | 7 | 31 | 29.8 | 19-19.5 | 155-13.4 | 8.0 | | 15 | 72 | 4.5 | 0.07 | 0.6 | 2.1 | 0.09 | B |
| 8 | 7 | 43 | 16.1 | 19-20.6 | 155-13.6 | 8.1 | | 18 | 64 | 3.8 | 0.08 | 0.6 | 1.4 | 0.11 | B |
| 8 | 10 | 43 | 50.9 | 19-20.4 | 155-12.3 | 10.5 | | 13 | 73 | 3.8 | 0.12 | 0.6 | 1.5 | 0.08 | A |
| 8 | 12 | 7 | 29.4 | 19-23.8 | 155-24.9 | 8.0* | | 13 | 133 | 5.3 | 0.09 | 0.7 | | 0.12 | C |
| 9 | 5 | 53 | 0.4 | 19-28.5 | 154-54.3 | 2.6 | 2.3 | 13 | 250 | 16.9 | 0.51 | 2.6 | 1.3 | 0.15 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP 9 | 15 | 38 | 10.0 | 19-20.5 | 155-12.7 | 6.3 | 1.7 | 24 | 67 | 3.6 | 0.08 | 0.7 | 0.6 | 0.21 | B |
| 10 | 3 | 0 | 37.3 | 19-20.8 | 155- 8.1 | 2.9 | 1.9 | 25 | 78 | 3.9 | 0.10 | 0.7 | 1.0 | 0.23 | B |
| 10 | 3 | 3 | 53.7 | 19-26.0 | 155-36.5 | 19.3 | 2.7 | 29 | 83 | 6.0 | 0.07 | 0.5 | 1.5 | 0.11 | B |
| 10 | 10 | 19 | 58.0 | 19-22.2 | 155-27.8 | 8.6 | 2.4 | 27 | 57 | 0.6 | 0.08 | 0.8 | 1.2 | 0.21 | B |
| 10 | 12 | 17 | 4.2 | 19-21.2 | 155-25.0? | 8.5 | | 14 | 119 | 3.5 | 0.09 | 0.8 | 0.7 | 0.16 | B |
| 10 | 12 | 48 | 10.9 | 19-20.5 | 155-12.1 | 4.6 | | 14 | 75 | 3.7 | 0.12 | 0.8 | 1.1 | 0.14 | B |
| 10 | 16 | 46 | 50.5 | 19-16.0 | 155-18.3 | 30.0 | | 23 | 148 | 3.7 | 0.15 | 0.9 | 1.6 | 0.13 | B |
| 10 | 17 | 5 | 57.2 | 19-23.3 | 155-26.4 | 9.1 | | 18 | 54 | 2.6 | 0.06 | 0.6 | 1.1 | 0.14 | B |
| 10 | 21 | 23 | 34.3 | 19-23.8 | 155-24.4 | 7.6 | | 13 | 106 | 6.1 | 0.09 | 0.7 | 0.5 | 0.13 | B |
| 10 | 21 | 26 | 3.7 | 19-18.8 | 155-16.9 | 5.7 | | 12 | 124 | 2.5 | 0.14 | 0.9 | 0.9 | 0.17 | B |
| 10 | 21 | 40 | 40.1 | 19-19.9 | 155-46.3 | 7.8 | 2.6 | 12 | 171 | 12.7 | 0.65 | 1.0 | 4.7 | 0.10 | C |
| 10 | 23 | 25 | 17.3 | 19-20.7 | 155- 6.4 | 8.0* | 2.0 | 14 | 102 | 6.2 | 0.15 | 1.3 | | 0.27 | B |
| 10 | 23 | 51 | 53.8 | 19-18.2 | 155-15.3 | 7.1 | | 13 | 142 | 3.8 | 0.13 | 0.8 | 0.9 | 0.15 | B |
| 11 | 1 | 25 | 48.8 | 19-21.1 | 155-18.0 | 25.2 | | 22 | 41 | 2.0 | 0.18 | 1.0 | 1.8 | 0.14 | B |
| 11 | 3 | 41 | 45.6 | 19-20.4 | 155- 9.2 | 4.4 | | 11 | 131 | 3.2 | 0.18 | 1.2 | 1.6 | 0.21 | C |
| 11 | 9 | 59 | 6.2 | 19-21.1 | 155- 7.6 | 8.0 | 1.8 | 19 | 166 | 4.4 | 0.07 | 0.6 | 0.4 | 0.09 | C |
| 11 | 12 | 5 | 47.6 | 19-20.3 | 155-10.7 | 9.4 | | 18 | 81 | 3.7 | 0.08 | 0.5 | 1.1 | 0.08 | A |
| 11 | 20 | 11 | 0.0 | 19-24.5 | 155-16.3 | 12.8 | 1.5 | 22 | 54 | 1.2 | 0.04 | 0.5 | 0.3 | 0.08 | B |
| 12 | 2 | 0 | 57.9 | 19-19.4 | 155-13.6 | 6.2 | 1.6 | 23 | 65 | 4.4 | 0.09 | 0.6 | 0.6 | 0.18 | B |
| 12 | 8 | 5 | 29.5 | 19-21.1 | 155- 6.0 | 8.0* | 1.9 | 14 | 173 | 5.9 | 0.16 | 1.4 | | 0.18 | C |
| 12 | 12 | 38 | 20.6 | 19-11.6 | 155-30.1? | 5.4 | | 13 | 81 | 5.6 | 0.12 | 0.9 | 1.0 | 0.18 | C |
| 12 | 18 | 31 | 46.5 | 19-21.1 | 155- 5.9 | 8.0* | | 12 | 175 | 5.7 | 0.13 | 1.2 | | 0.15 | C |
| 12 | 19 | 16 | 38.6 | 19- 9.2 | 155-19.7 | 31.1 | | 14 | 206 | 14.4 | 0.30 | 1.9 | 3.3 | 0.13 | C |
| 13 | 0 | 38 | 16.2 | 19-21.1 | 155-24.3 | 4.8 | 1.6 | 15 | 74 | 2.4 | 0.09 | 0.8 | 0.9 | 0.18 | B |
| 13 | 1 | 14 | 0.2 | 19- 5.6 | 155-26.4 | 31.2 | | 12 | 202 | 7.6 | 0.35 | 1.8 | 3.4 | 0.11 | C |
| 13 | 4 | 4 | 15.4 | 19-18.3 | 155-14.4 | 7.8 | | 11 | 98 | 2.9 | 0.16 | 1.0 | 2.0 | 0.13 | B |
| 13 | 4 | 4 | 57.7 | 19-18.2 | 155-14.5 | 6.3 | 1.9 | 25 | 97 | 2.8 | 0.09 | 0.7 | 0.6 | 0.18 | B |
| 13 | 4 | 18 | 0.8 | 19-18.2 | 155-14.9 | 4.5 | 1.7 | 17 | 103 | 3.3 | 0.12 | 0.9 | 1.1 | 0.23 | B |
| 13 | 4 | 18 | 59.6 | 19-18.3 | 155-14.6 | 7.1 | | 11 | 97 | 3.1 | 0.15 | 0.9 | 1.2 | 0.15 | B |
| 13 | 16 | 37 | 33.8 | 19-18.2 | 155-14.1 | 7.9 | 2.0 | 22 | 83 | 2.5 | 0.04 | 0.4 | 0.2 | 0.09 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP 14 | 1 | 26 | 8.6 | 19-57.1 | 155-26.5 | 11.5 | 2.6 | 12 | 184 | 12.4 | 0.10 | 0.9 | 0.8 | 0.08 | B |
| 14 | 3 | 59 | 6.2 | 20- 2.3 | 155-42.6 | 27.0 | 2.8 | 18 | 149 | 12.4 | 0.64 | 3.0 | 6.6 | 0.16 | C |
| 14 | 5 | 26 | 19.3 | 19-24.0 | 155-28.3? | 8.1 | 1.8 | 25 | 56 | 3.1 | 0.10 | 0.7 | 0.6 | 0.18 | B |
| 14 | 6 | 27 | 17.9 | 19-12.1 | 155-34.9 | 6.6 | 3.3 | 32 | 89 | 6.4 | 0.15 | 1.0 | 0.9 | 0.25 | B |
| 14 | 6 | 47 | 30.8 | 19-12.8 | 155-36.1 | 8.1 | | 18 | 87 | 4.2 | 0.12 | 1.1 | 2.2 | 0.20 | B |
| 14 | 12 | 24 | 30.6 | 19-26.1 | 155-29.9 | 8.0* | | 13 | 88 | 7.8 | 0.06 | 0.5 | | 0.09 | B |
| 14 | 13 | 12 | 53.1 | 19-13.4 | 155-31.9 | 5.7 | | 21 | 80 | 9.5 | 0.12 | 0.9 | 0.9 | 0.22 | C |
| 14 | 14 | 49 | 11.4 | 19-20.8 | 155- 8.3 | 4.2 | | 16 | 80 | 3.5 | 0.10 | 0.7 | 1.0 | 0.18 | B |
| 14 | 17 | 1 | 51.2 | 19-17.4 | 155-21.7 | 7.1 | 3.1 | 27 | 124 | 5.5 | 0.07 | 0.6 | 0.5 | 0.19 | B |
| 14 | 20 | 37 | 20.6 | 19-22.0 | 155-16.5 | 19.2 | | 12 | 152 | 1.2 | 1.00 | 3.5 | 8.5 | 0.14 | C |
| 15 | 12 | 10 | 57.2 | 19-20.4 | 155-12.3? | 5.6 | 1.6 | 16 | 72 | 3.9 | 0.15 | 1.1 | 1.2 | 0.24 | B |
| 15 | 13 | 22 | 58.9 | 19-52.8 | 155-17.1 | 18.4 | 2.4 | 17 | 188 | 6.3 | 0.22 | 1.4 | 2.9 | 0.16 | C |
| 15 | 14 | 41 | 47.0 | 19-58.4 | 155-17.0 | 43.2 | 2.5 | 23 | 210 | 11.2 | 0.30 | 1.3 | 2.8 | 0.12 | C |
| 15 | 16 | 28 | 4.4 | 19-11.4 | 155-21.6 | 33.9 | | 18 | 188 | 16.4 | 0.29 | 1.3 | 2.9 | 0.11 | C |
| 15 | 23 | 49 | 11.1 | 19-21.4 | 155-16.0 | 30.0 | 3.8 | 35 | 64 | 1.8 | 0.14 | 0.8 | 1.4 | 0.15 | B |
| 16 | 0 | 8 | 21.2 | 19-21.4 | 155-17.8 | 26.9 | 2.0 | 21 | 50 | 3.8 | 0.31 | 1.7 | 2.9 | 0.17 | C |
| 16 | 0 | 47 | 10.5 | 19-19.5 | 155-14.8 | 34.4 | | 13 | 168 | 5.7 | 0.56 | 2.4 | 4.8 | 0.12 | C |
| 16 | 1 | 21 | 2.2 | 19-21.9 | 155-16.2 | 26.7 | | 13 | 90 | 1.2 | 0.43 | 1.7 | 3.8 | 0.12 | B |
| 16 | 4 | 31 | 14.8 | 19-19.3 | 155-19.1? | 8.0* | | 12 | 143 | 7.6 | 0.25 | 2.0 | | 0.41 | C |
| 16 | 6 | 5 | 44.2 | 19-21.3 | 155-16.4 | 27.6 | 2.3 | 30 | 66 | 2.3 | 0.11 | 0.7 | 1.1 | 0.12 | B |
| 16 | 6 | 30 | 27.5 | 19-20.6 | 155-26.9 | 9.2 | 1.8 | 17 | 82 | 3.7 | 0.10 | 1.0 | 1.5 | 0.19 | B |
| 16 | 7 | 27 | 13.4 | 19-20.9 | 155- 8.0 | 4.2 | 1.8 | 17 | 78 | 3.8 | 0.11 | 0.8 | 1.1 | 0.18 | B |
| 16 | 7 | 53 | 0.9 | 19-12.4 | 155-18.6 | 40.2 | | 16 | 195 | 10.3 | 0.41 | 1.7 | 4.0 | 0.11 | C |
| 16 | 9 | 38 | 12.7 | 19-20.7 | 155- 8.4 | 5.2 | | 13 | 93 | 3.5 | 0.14 | 1.0 | 1.4 | 0.20 | B |
| 16 | 10 | 8 | 31.3 | 19-27.2 | 155-49.6? | 4.1 | | 12 | 248 | 39.5 | 0.69 | 4.7 | 4.6 | 0.14 | D |
| 16 | 10 | 12 | 36.5 | 19-24.9 | 155-23.8 | 8.0* | 1.5 | 11 | 129 | 7.3 | 0.05 | 0.4 | | 0.07 | C |
| 16 | 12 | 0 | 40.3 | 19-20.1 | 155-14.2? | 0.8 | 1.4 | 18 | 76 | 5.2 | 2.33 | 0.8 | 8.9 | 0.27 | C |
| 16 | 15 | 14 | 20.7 | 19-14.0 | 155-19.3 | 34.0 | | 22 | 200 | 7.3 | 0.40 | 2.0 | 3.2 | 0.15 | C |
| 16 | 15 | 28 | 47.4 | 19-28.0 | 154-54.1? | 2.5 | 2.5 | 15 | 189 | 2.0 | 0.19 | 1.4 | 1.3 | 0.19 | C |
| 16 | 17 | 20 | 9.7 | 19-21.3 | 155-17.4 | 28.1 | 2.5 | 26 | 51 | 2.2 | 0.16 | 0.9 | 1.6 | 0.14 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MQ | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP | 16 | 20 | 23 8.5 | 19-20.9 | 155-16.5 | 28.2 | | 18 | 110 | 2.1 | 0.20 | 1.0 | 2.0 | 0.12 | B |
| | 16 | 21 | 48 7.2 | 19-28.3 | 154-54.2 | 1.1 | | 11 | 252 | 17.1 | 2.13 | 3.1 | 6.8 | 0.12 | D |
| | 17 | 0 | 37 28.7 | 19-12.6 | 155-19.4 | 41.6 | | 16 | 183 | 10.1 | 0.35 | 1.7 | 3.2 | 0.12 | C |
| | 17 | 2 | 18 55.4 | 19-22.4 | 155-16.4 | 27.9 | | 14 | 95 | 4.5 | 0.24 | 1.3 | 2.5 | 0.14 | B |
| | 17 | 6 | 17 9.8 | 19-21.3 | 155-25.4 | 6.3 | | 12 | 107 | 4.3 | 0.10 | 0.6 | 0.9 | 0.13 | B |
| | 17 | 6 | 37 33.9 | 19-12.8 | 155-19.8 | 38.3 | | 28 | 166 | 9.8 | 0.24 | 1.2 | 2.2 | 0.14 | C |
| | 17 | 12 | 44 49.5 | 19-20.2 | 155- 9.6 | 4.8 | | 13 | 79 | 3.5 | 0.11 | 0.8 | 1.2 | 0.18 | B |
| | 17 | 13 | 18 32.4 | 19-24.4 | 155-23.2 | 4.2 | | 11 | 113 | 6.3 | 0.08 | 0.5 | 1.1 | 0.11 | B |
| | 17 | 18 | 58 41.1 | 19-19.3 | 155-16.0 | 5.1 | | 17 | 108 | 2.9 | 0.10 | 0.7 | 0.7 | 0.18 | B |
| | 17 | 19 | 0 10.6 | 19-19.1 | 155-15.8 | 5.7 | | 16 | 112 | 3.3 | 0.10 | 0.8 | 0.7 | 0.17 | B |
| | 17 | 19 | 52 10.5 | 19-25.9 | 154-58.1 | 2.7 | | 6 | 161 | 9.9 | 0.27 | 2.0 | 4.0 | 0.12 | C |
| | 17 | 21 | 45 46.3 | 19-19.2 | 155-15.5 | 5.6 | | 14 | 107 | 3.6 | 0.14 | 0.8 | 1.1 | 0.18 | B |
| | 18 | 1 | 22 26.9 | 19-20.9 | 155- 9.1 | 4.5 | | 15 | 82 | 2.4 | 0.11 | 0.9 | 1.0 | 0.19 | B |
| | 18 | 2 | 57 9.5 | 19-12.9 | 155-19.8 | 38.5 | | 29 | 166 | 9.5 | 0.23 | 1.1 | 2.1 | 0.14 | C |
| | 18 | 4 | 37 0.3 | 19-25.7 | 154-58.3 | 2.5 | | 7 | 161 | 10.4 | 0.16 | 1.2 | 2.0 | 0.09 | C |
| | 18 | 6 | 12 37.8 | 19-12.5 | 155-18.8 | 40.1 | | 14 | 236 | 10.0 | 0.48 | 2.1 | 4.3 | 0.11 | C |
| | 18 | 7 | 17 30.6 | 19-24.2 | 154-57.3 | 4.0 | | 11 | 223 | 11.0 | 0.31 | 1.8 | 1.9 | 0.12 | C |
| | 18 | 18 | 0 18.5 | 19-24.0 | 155-16.4 | 13.3 | 2.2 | 32 | 31 | 0.4 | 0.04 | 0.5 | 0.3 | 0.12 | B |
| | 18 | 18 | 35 15.3 | 19-21.6 | 155- 7.2 | 4.5 | | 9 | 91 | 4.7 | 0.15 | 1.2 | 2.4 | 0.18 | B |
| | 18 | 18 | 35 57.5 | 19-21.8 | 155- 7.6? | 3.6 | 1.8 | 20 | 71 | 4.0 | 0.27 | 0.6 | 0.9 | 0.19 | B |
| | 18 | 23 | 57 7.1 | 19-20.6 | 155-14.0 | 6.7 | 1.5 | 21 | 67 | 4.2 | 0.07 | 0.6 | 0.5 | 0.16 | B |
| | 19 | 0 | 19 42.5 | 19-20.1 | 155- 9.8 | 5.1 | 2.0 | 22 | 81 | 3.7 | 0.11 | 0.8 | 0.8 | 0.23 | B |
| | 19 | 0 | 23 44.4 | 19-20.1 | 155- 8.9 | 8.6 | | 10 | 117 | 3.9 | 0.04 | 0.2 | 0.5 | 0.03 | A |
| | 19 | 0 | 24 54.8 | 19-20.4 | 155- 9.1 | 4.4 | | 11 | 70 | 3.4 | 0.10 | 0.8 | 1.1 | 0.16 | B |
| | 19 | 0 | 51 19.7 | 19-20.3 | 155- 9.5 | 4.9 | 1.7 | 18 | 75 | 3.3 | 0.11 | 0.8 | 1.1 | 0.21 | B |
| | 19 | 0 | 54 10.3 | 19-19.8 | 155- 9.4 | 7.8 | 1.8 | 18 | 83 | 4.2 | 0.08 | 0.8 | 0.6 | 0.14 | B |
| | 19 | 0 | 57 55.2 | 19-57.0 | 155-59.3 | 15.3* | | 10 | 237 | 29.5 | 0.30 | 2.3 | | 0.12 | D |
| | 19 | 1 | 59 28.4 | 19- 9.5 | 155-43.0 | 4.7 | | 11 | 141 | 14.3 | 0.24 | 1.8 | 1.9 | 0.23 | C |
| | 19 | 11 | 40 20.1 | 19-13.1 | 155-19.9 | 39.7 | 2.4 | 25 | 164 | 9.3 | 0.22 | 1.1 | 2.1 | 0.13 | C |
| | 19 | 12 | 29 0.5 | 19-10.9 | 155-32.1 | 5.3 | 3.5 | 31 | 103 | 7.7 | 0.15 | 0.9 | 0.9 | 0.24 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NC | GAP | DMIN | ERT | ERH | ERZ | MC | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP 19 | 15 | 57 | 11.4 | 19-19.6 | 155-10.5 | 4.0 | | 13 | 113 | 4.7 | 0.13 | 0.9 | 1.3 | 0.18 | B |
| 19 | 16 | 45 | 32.4 | 19-24.8 | 155-26.9? | 8.1 | 1.7 | 19 | 61 | 4.4 | 0.07 | 0.7 | 0.9 | 0.15 | B |
| 19 | 19 | 22 | 39.0 | 19-49.3 | 155-36.5 | 12.5 | 3.0 | 25 | 103 | 16.3 | 0.18 | 1.1 | 1.9 | 0.19 | C |
| 19 | 19 | 26 | 10.0 | 19-24.3 | 155-17.5 | 7.2 | 1.6 | 16 | 80 | 1.5 | 0.09 | 0.6 | 0.6 | 0.12 | B |
| 19 | 20 | 1 | 41.1 | 19-18.9 | 155-15.0 | 9.5 | | 11 | 112 | 4.3 | 0.18 | 0.8 | 1.8 | 0.08 | A |
| 20 | 0 | 5 | 16.8 | 19-21.5 | 155-24.3? | 7.7 | 1.6 | 20 | 60 | 2.9 | 0.08 | 0.8 | 1.7 | 0.18 | B |
| 20 | 0 | 52 | 1.6 | 19-59.7 | 155- 0.8 | 51.8 | | 14 | 247 | 32.4 | 0.40 | 1.9 | 3.2 | 0.08 | C |
| 20 | 3 | 5 | 53.2 | 19-23.9 | 155-29.0 | 8.4 | 2.1 | 23 | 153 | 3.6 | 0.12 | 1.0 | 1.6 | 0.18 | C |
| 20 | 4 | 27 | 41.2 | 19-24.8 | 155- 2.6 | 8.0* | 2.0 | 10 | 119 | 9.1 | 0.03 | 0.3 | | 0.04 | C |
| 20 | 10 | 10 | 8.9 | 19-25.1 | 155-22.8 | 8.0* | 1.4 | 17 | 65 | 5.9 | 0.05 | 0.5 | | 0.11 | B |
| 20 | 14 | 3 | 43.6 | 19-12.6 | 155-20.1 | 37.1 | | 23 | 166 | 10.2 | 0.28 | 1.4 | 2.5 | 0.15 | C |
| 20 | 15 | 50 | 28.1 | 19-22.8 | 155- 5.4 | 4.2 | | 17 | 130 | 6.9 | 0.09 | 0.7 | 1.0 | 0.16 | B |
| 20 | 18 | 7 | 8.9 | 20-52.3 | 156-11.8 | 63.0* | | 19 | 328 | 93.1 | 1.90 | 12.0 | | 0.17 | D |
| 20 | 13 | 13 | 21.6 | 19-11.2 | 155-32.4 | 7.0 | 2.2 | 15 | 98 | 8.5 | 0.09 | 0.7 | 0.7 | 0.14 | B |
| 20 | 19 | 55 | 41.2 | 19-20.6 | 155-11.3 | 9.9 | 2.0 | 12 | 94 | 3.6 | 0.09 | 0.5 | 1.0 | 0.07 | A |
| 21 | 3 | 59 | 21.9 | 19-22.1 | 155-37.0 | 9.9 | 3.6 | 35 | 46 | 5.4 | 0.06 | 0.5 | 0.7 | 0.15 | B |
| 21 | 4 | 24 | 45.2 | 19-13.5 | 155-20.1 | 39.0 | | 27 | 160 | 8.6 | 0.18 | 0.9 | 1.7 | 0.12 | C |
| 21 | 8 | 14 | 20.1 | 19-21.7 | 155-24.3? | 8.1 | 2.7 | 32 | 48 | 3.3 | 0.07 | 0.7 | 0.5 | 0.22 | C |
| 21 | 16 | 5 | 34.6 | 19-13.3 | 155-20.2 | 40.3 | | 17 | 162 | 9.1 | 0.35 | 1.5 | 3.4 | 0.14 | C |
| 22 | 10 | 32 | 20.3 | 19-22.5 | 155- 4.1 | 40.9 | | 13 | 180 | 10.0 | 0.92 | 3.3 | 7.8 | 0.15 | C |
| 22 | 13 | 41 | 34.4 | 19-19.7 | 155-11.5 | 8.0* | | 13 | 90 | 5.2 | 0.06 | 0.6 | | 0.10 | B |
| 22 | 17 | 59 | 23.8 | 19-23.8 | 155-28.4 | 8.9 | | 18 | 73 | 2.7 | 0.10 | 1.0 | 1.5 | 0.16 | B |
| 22 | 19 | 8 | 47.7 | 19-23.5 | 155-28.9? | 8.8 | 2.3 | 25 | 60 | 3.0 | 0.15 | 1.0 | 0.9 | 0.24 | B |
| 22 | 19 | 14 | 16.2 | 19-23.7 | 155- 2.5 | 5.0 | | 15 | 127 | 7.0 | 0.20 | 1.6 | 1.6 | 0.27 | C |
| 22 | 20 | 9 | 1.7 | 19-20.8 | 155- 7.9? | 2.3 | | 19 | 80 | 4.1 | 0.10 | 0.7 | 1.1 | 0.17 | B |
| 23 | 4 | 2 | 48.6 | 19-20.7 | 155-11.9 | 5.6 | | 18 | 77 | 3.5 | 0.11 | 0.8 | 0.9 | 0.18 | B |
| 23 | 7 | 14 | 9.6 | 19-20.5 | 155- 9.2 | 2.6 | | 16 | 70 | 3.1 | 0.13 | 1.0 | 1.6 | 0.22 | B |
| 23 | 10 | 48 | 4.1 | 19-13.4 | 155-19.6 | 41.5 | | 24 | 163 | 8.5 | 0.27 | 1.3 | 2.4 | 0.13 | C |
| 23 | 11 | 3 | 36.9 | 19-19.1 | 155-15.8 | 5.5 | | 22 | 115 | 3.3 | 0.09 | 0.6 | 0.7 | 0.18 | B |
| 23 | 12 | 14 | 49.5 | 19-24.6 | 155-17.4 | 8.7 | 1.5 | 15 | 60 | 1.0 | 0.13 | 0.8 | 1.2 | 0.12 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MC | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP 23 | 12 | 35 | 6.9 | 19-36.1 | 155-18.9 | 47.7 | | 20 | 106 | 14.0 | 0.40 | 1.3 | 4.1 | 0.15 | B |
| 23 | 13 | 39 | 44.5 | 19-19.7 | 155-10.4 | 5.0 | 2.0 | 22 | 92 | 4.5 | 0.10 | 0.7 | 0.8 | 0.23 | B |
| 23 | 15 | 51 | 36.9 | 19-18.9 | 155-13.6 | 6.4 | 1.9 | 28 | 69 | 3.5 | 0.07 | 0.6 | 0.5 | 0.19 | B |
| 23 | 19 | 6 | 1.6 | 19-13.2 | 155-19.9 | 39.6 | | 20 | 163 | 9.1 | 0.28 | 1.3 | 2.6 | 0.12 | C |
| 23 | 19 | 46 | 24.5 | 19-21.3 | 155-15.8 | 29.5 | 2.8 | 33 | 67 | 2.1 | 0.13 | 0.8 | 1.3 | 0.15 | B |
| 23 | 23 | 23 | 41.2 | 19-21.4 | 155- 8.2? | 6.8 | | 10 | 226 | 3.2 | 0.23 | 1.4 | 1.0 | 0.12 | C |
| 24 | 0 | 50 | 3.9 | 19-19.9 | 155-10.9 | 4.0 | | 15 | 100 | 4.3 | 0.13 | 0.9 | 1.5 | 0.19 | B |
| 24 | 0 | 52 | 49.7 | 19-13.7 | 155-20.1 | 39.4 | | 25 | 159 | 8.2 | 0.22 | 1.1 | 2.0 | 0.13 | C |
| 24 | 0 | 53 | 51.5 | 19-22.0 | 155-24.1 | 8.1 | 2.5 | 31 | 39 | 3.6 | 0.06 | 0.5 | 0.5 | 0.16 | B |
| 24 | 1 | 0 | 31.5 | 19-13.1 | 155-19.2 | 39.9 | 2.4 | 30 | 166 | 9.1 | 0.17 | 0.9 | 1.6 | 0.12 | C |
| 24 | 2 | 12 | 5.6 | 19-22.7 | 155-26.2 | 10.1 | | 16 | 118 | 2.5 | 0.11 | 0.7 | 1.5 | 0.12 | B |
| 24 | 3 | 50 | 55.9 | 19-20.3 | 155- 9.4 | 4.7 | 1.7 | 18 | 75 | 3.3 | 0.11 | 0.8 | 1.1 | 0.21 | B |
| 24 | 6 | 13 | 10.0 | 19-21.7 | 155-17.2 | 32.0 | 2.1 | 19 | 47 | 2.7 | 0.20 | 1.0 | 1.9 | 0.12 | B |
| 24 | 6 | 24 | 34.9 | 20- 1.5 | 155-47.4? | 8.7 | | 9 | 211 | 11.4 | 0.28 | 2.9 | 4.1 | 0.10 | C |
| 24 | 14 | 45 | 20.4 | 19-23.1 | 155- 5.3? | 0.0 | 2.6 | 29 | 82 | 7.2 | 4.03 | 0.8 | 7.6 | 0.23 | C |
| 24 | 15 | 6 | 31.4 | 19-21.1 | 155-16.6 | 27.4 | 2.5 | 27 | 68 | 2.3 | 0.13 | 0.8 | 1.3 | 0.14 | B |
| 24 | 15 | 12 | 17.2 | 19-25.5 | 155- 3.8? | 0.3 | 2.5 | 21 | 100 | 8.7 | 0.62 | 0.9 | 2.4 | 0.24 | C |
| 24 | 18 | 18 | 37.8 | 19-22.9 | 155-25.0? | 6.8 | 1.6 | 24 | 66 | 4.7 | 0.07 | 0.8 | 1.6 | 0.21 | B |
| 24 | 21 | 36 | 0.5 | 19-23.9 | 155- 7.3? | 0.0 | | 6 | 111 | 5.5 | 4.02 | 1.3 | 7.7 | 0.11 | C |
| 24 | 22 | 55 | 24.8 | 19-19.0 | 155-15.5 | 6.7 | | 16 | 115 | 4.0 | 0.09 | 0.6 | 0.5 | 0.11 | B |
| 25 | 6 | 7 | 26.1 | 19-20.3 | 155-12.0 | 7.7 | | 22 | 76 | 4.2 | 0.06 | 0.7 | 0.5 | 0.16 | B |
| 25 | 10 | 36 | 19.7 | 19-30.6 | 155-46.7 | 7.4 | 2.8 | 17 | 142 | 18.9 | 0.46 | 0.7 | 3.4 | 0.10 | C |
| 25 | 11 | 26 | 56.5 | 19-19.0 | 155-14.4 | 6.1 | 1.6 | 19 | 99 | 3.9 | 0.10 | 0.7 | 0.7 | 0.16 | B |
| 25 | 16 | 19 | 36.0 | 19-19.8 | 155-12.8 | 7.3 | 1.6 | 19 | 75 | 5.2 | 0.09 | 0.7 | 0.5 | 0.16 | B |
| 25 | 18 | 3 | 10.0 | 19-22.5 | 155-23.2 | 7.9 | 1.5 | 23 | 52 | 4.2 | 0.06 | 0.6 | 0.5 | 0.14 | B |
| 25 | 18 | 15 | 6.4 | 19-19.0 | 155-13.4? | 7.6 | | 19 | 77 | 3.6 | 0.07 | 0.5 | 0.5 | 0.12 | B |
| 26 | 0 | 6 | 58.4 | 19-20.2 | 155-26.6 | 12.7 | 1.9 | 17 | 136 | 4.6 | 0.20 | 1.9 | 1.7 | 0.26 | C |
| 26 | 4 | 38 | 47.2 | 19-58.2 | 155-44.8 | 1.6 | | 14 | 193 | 17.8 | 0.32 | 1.2 | 1.1 | 0.11 | C |
| 27 | 2 | 20 | 23.2 | 19-25.7 | 155-28.7? | 8.0 | 1.8 | 20 | 66 | 6.2 | 0.08 | 0.7 | 1.8 | 0.16 | B |
| 27 | 3 | 20 | 37.4 | 19-19.8 | 155-12.1 | 5.8 | 2.0 | 30 | 83 | 4.9 | 0.06 | 0.6 | 0.6 | 0.23 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP 27 | 17 | 23 | 58.5 | 19-22.3 | 155-11.7 | 3.6 | 1.8 | 22 | 56 | 1.7 | 0.06 | 0.5 | 0.9 | 0.15 | B |
| 27 | 21 | 16 | 28.9 | 19-19.3 | 155-24.1 | 7.6 | 1.7 | 21 | 96 | 2.2 | 0.07 | 0.7 | 0.5 | 0.18 | B |
| 28 | 1 | 21 | 50.7 | 19-20.4 | 155- 8.3 | 5.6 | | 16 | 78 | 4.1 | 0.12 | 1.0 | 1.1 | 0.21 | B |
| 28 | 1 | 35 | 7.1 | 19-22.6 | 155-23.2? | 7.0 | | 9 | 92 | 4.5 | 0.14 | 0.8 | 2.6 | 0.09 | B |
| 28 | 2 | 9 | 26.4 | 19-20.7 | 155- 9.1 | 5.6 | 1.7 | 24 | 65 | 2.8 | 0.09 | 0.7 | 0.7 | 0.21 | B |
| 28 | 2 | 37 | 47.1 | 19-22.1 | 155- 7.4 | 2.9 | 1.8 | 22 | 95 | 8.9 | 0.08 | 0.6 | 0.8 | 0.14 | B |
| 28 | 17 | 26 | 58.6 | 19-25.2 | 155- 3.9? | 0.0 | | 17 | 101 | 9.3 | 6.79 | 0.9 | 12.9 | 0.23 | C |
| 28 | 18 | 15 | 38.2 | 19-18.5 | 155-16.3 | 5.5 | | 14 | 138 | 3.6 | 0.16 | 0.9 | 1.4 | 0.18 | B |
| 28 | 22 | 38 | 50.3 | 19-25.6 | 155-24.8? | 6.1 | 2.0 | 26 | 64 | 7.5 | 0.08 | 0.7 | 2.2 | 0.21 | C |
| 29 | 3 | 37 | 59.1 | 19-20.4 | 155-46.1? | 3.4 | | 20 | 161 | 13.5 | 0.28 | 2.2 | 3.7 | 0.20 | C |
| 29 | 4 | 40 | 42.6 | 19-24.1 | 155-24.1 | 7.5 | 2.9 | 31 | 58 | 6.9 | 0.06 | 0.5 | 0.4 | 0.17 | B |
| 29 | 5 | 14 | 25.7 | 19-23.4 | 155-23.0 | 6.5 | | 16 | 99 | 5.7 | 0.10 | 0.8 | 1.0 | 0.18 | B |
| 29 | 6 | 28 | 5.8 | 19-21.3 | 155- 8.4 | 5.2 | | 19 | 79 | 2.9 | 0.10 | 0.8 | 0.9 | 0.18 | B |
| 29 | 7 | 55 | 58.3 | 19-21.4 | 155-12.9 | 6.0 | 1.5 | 18 | 56 | 5.5 | 0.15 | 1.1 | 1.1 | 0.25 | B |
| 29 | 10 | 21 | 10.4 | 19-31.0 | 155-51.9 | 2.7 | | 20 | 188 | 19.1 | 0.20 | 1.3 | 1.1 | 0.15 | C |
| 30 | 1 | 5 | 14.3 | 19-19.8 | 155-10.7 | 8.1 | | 13 | 114 | 4.4 | 0.06 | 0.6 | 1.7 | 0.08 | A |
| 30 | 5 | 59 | 24.1 | 19-26.3 | 155-23.9? | 7.5 | 1.9 | 18 | 127 | 6.0 | 0.13 | 1.0 | 0.7 | 0.21 | C |
| 30 | 15 | 15 | 38.5 | 19-10.8 | 155-34.3 | 6.5 | 2.3 | 12 | 123 | 9.0 | 0.17 | 1.2 | 1.2 | 0.20 | B |
| 30 | 20 | 27 | 17.4 | 19-20.1 | 155- 8.1 | 7.8 | 2.1 | 25 | 84 | 4.7 | 0.08 | 0.8 | 0.6 | 0.16 | B |
| 30 | 20 | 44 | 41.2 | 19-20.1 | 155-12.4 | 5.8 | | 16 | 74 | 5.8 | 0.11 | 0.8 | 0.9 | 0.20 | B |
| 30 | 22 | 55 | 37.4 | 19-13.6 | 155-20.2 | 38.5 | 2.3 | 28 | 160 | 8.5 | 0.17 | 0.9 | 1.6 | 0.12 | C |

Table 3. Felt earthquakes

| Date | Time H | M | S | Magnitude | Felt report |
|---|---|---|---|---|---|
| Jul 1 | 21 | 02 | 26.8 | 3.2 | Laupahoehoe, Honokaa |
| 1 | 23 | 12 | 58.3 | 3.6 | Laupahoehoe, Honokaa, Hilo, Mauna Kea Observatory |
| 4 | 06 | 59 | 22.0 | 3.6 | Honokaa, Honomu, Kapapala |
| 10 | 04 | 18 | 14.8 | 2.5 | Kapapala |
| 13 | 11 | 51 | 45.9 | 2.4 | Hawaii National Park |
| 14 | 14 | 23 | 04.0 | 3.7 | Honokaa |
| 17 | 00 | 54 | 02.4 | 2.6 | Honokaa |
| 19 | 16 | 12 | 57.4 | 2.9 | Honokaa |
| 20 | 04 | 27 | 49.8 | 3.5 | Honokaa, Volcano, Hilo |
| 27 | 00 | 31 | 51.8 | 3.0 | Kapapala |
| Aug 11 | 03 | 18 | 04.3 | 3.7 | Honokaa |
| Sep 3 | 14 | 05 | 35.3 | 3.4 | Kealakekua, Honokahau, Holualoa |
| 14 | 06 | 27 | 17.9 | 3.3 | Kapapala |
| 15 | 23 | 49 | 11.1 | 3.8 | Kapapala, Honokaa, Volcano |
| 19 | 12 | 29 | 00.5 | 3.5 | Kapapala, Pahala |
| 19 | 19 | 22 | 39.0 | 3.0 | Honokaa |
| 29 | 10 | 21 | 10.4 | ? | Holualoa |

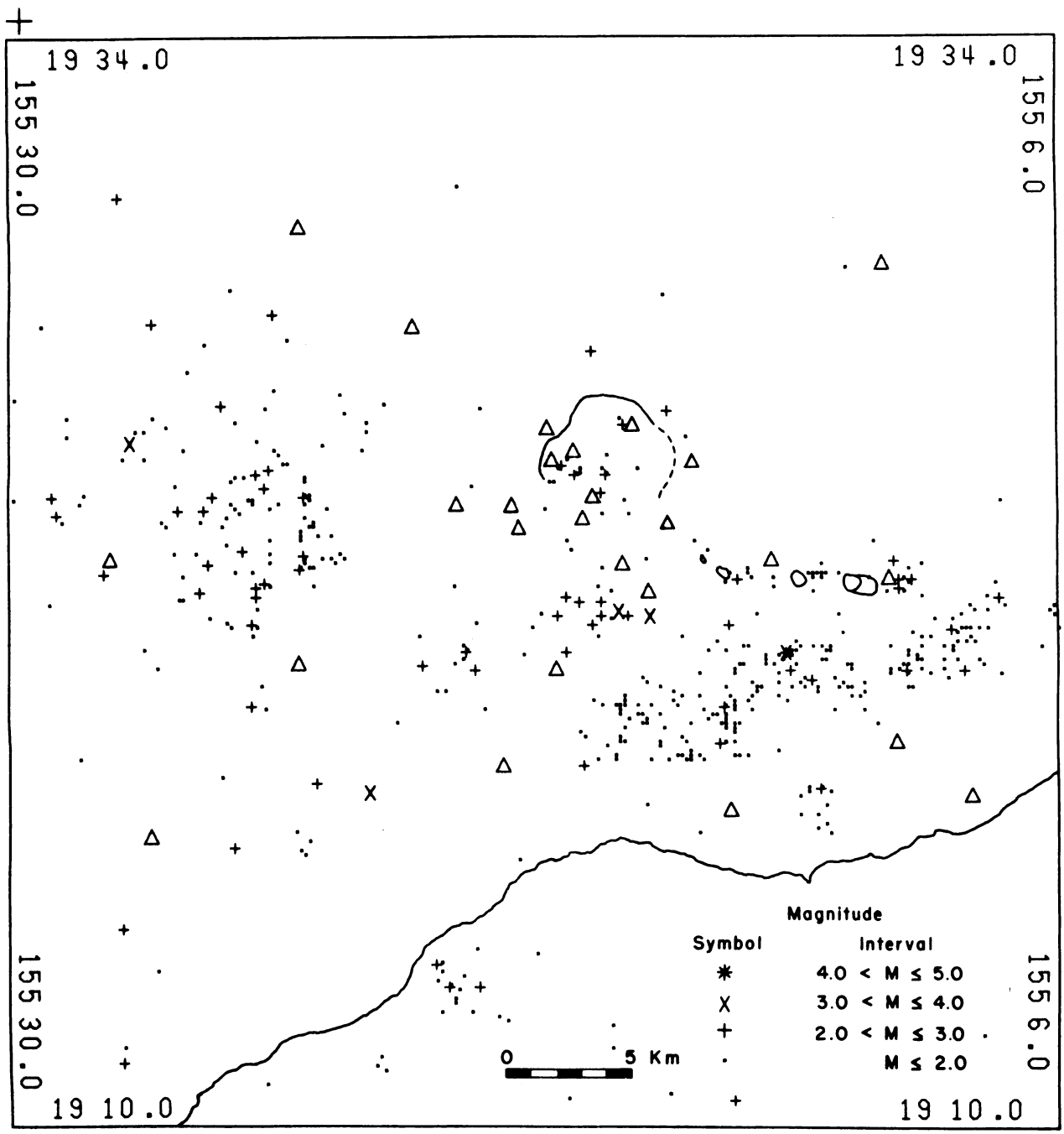


Figure 1.--Plot of epicenters in the Kilauea region. Triangles are seismometer locations. Kilauea Caldera and the major pit craters on the east rift are shown in outline. The Pacific Ocean lies in the lower right portion of the illustration.

Table 4. Seismometer stations in Hawaii operated by the U. S. Geological Survey.

| STATION NAME | CODE | LAT-N | LONG-W | ELEV | TYPE | CAL | VCO | RADIO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| AHUA | AHU | 19 22.40 | 155 15.90 | 1070 | 3 | 6.0 | 2380 | | |
| AINAHOU | AIN | 19 22.50 | 155 27.62 | 1524 | 1 | 6.0 | 1700 | RF9 | |
| CAPTAIN COOK | CAC | 19 29.29 | 155 55.09 | 323 | 1 | 6.0 | 2720 | RF8 | Installed 9/20/73 |
| CONE PEAK | CPK | 19 23.70 | 155 19.70 | 1038 | 3 | 1.34 | | | |
| DESERT | DES | 19 20.20 | 155 23.30 | 815 | 3 | 1.34 | | | |
| ESCAPE ROAD | ESR | 19 24.68 | 155 14.33 | 1177 | 1 | 6.0 | 1360 | | |
| HALE POHAKU | HPU | 19 46.85 | 155 27.50 | 3396 | 1 | 5.6 | 1360 | RF6 | |
| HILINA PALI | HLP | 19 17.96 | 155 18.63 | 707 | 3 | 6.0 | 2040 | | |
| HUALALAI | HUA | 19 41.25 | 155 50.32 | 2189 | 1 | 5.2 | 1700 | RF4 | |
| KAAPUNA | KAA | 19 15.98 | 155 52.28 | 524 | 1 | 5.5 | 1020 | RF12 | |
| KAENA | KAE | 19 17.35 | 155 7.95 | 37 | 1 | 6.0 | 2380 | RF6 | |
| KAHUKU | KHU | 19 14.90 | 155 37.10 | 1939 | 1 | 5.7 | 1700 | RF3 | |
| KAPAPALA RANCH | KPR | 19 16.40 | 155 26.70 | 610 | 1 | 6.5 | 1700 | RF1 | |
| KEANAKOLU | KKU | 19 53.39 | 155 20.58 | 1863 | 1 | 4.8 | 2380 | RF7 | |
| KIPUKA NENE | KPN | 19 20.10 | 155 17.40 | 924 | 3 | 1.34 | | | |
| KOHALA | KOH | 20 7.69 | 155 46.77 | 1166 | 1 | 1.5 | 2380 | RF2 | |
| M12 | M12 | 19 23.69 | 155 18.45 | 1116 | 1 | 6.0 | 2040 | | |
| MAUNA LOA | MLO | 19 29.80 | 155 23.30 | 2010 | 1 | 6.5 | 1360 | | |
| MAUNA LOA X | MLX | 19 27.60 | 155 20.70 | 1475 | 3 | 1.34 | | | |
| MAKAOPUHI | MPR | 19 22.07 | 155 9.85 | 881 | 1 | 5.7 | 2720 | RF5 | |
| MOKUAWEOWEO | MOK | 19 29.28 | 155 35.98 | 4104 | 1 | 6.5 | 2040 | RF3 | |
| MOUNTAIN VIEW | MTV | 19 30.25 | 155 3.75 | 409 | 1 | 6.2 | 680 | RF8 | |
| NATIONAL GUARD | NAG | 19 42.12 | 155 1.72 | 18 | 1 | 6.0 | 1360 | RF3 | |
| NORTH PIT | NPT | 19 24.90 | 155 17.00 | 1115 | 3 | 1.34 | | | |
| NOSE | NOS | 19 23.20 | 155 18.28 | 1083 | 1 | 6.0 | 1700 | | Discontinued 7/18/73 |
| OUTLET | OTL | 19 23.38 | 155 16.94 | 1038 | 3 | 5.0 | | | |
| POLIOKEAWE PALI | POL | 19 17.02 | 155 13.47 | 169 | 1 | 6.0 | 1360 | RF12 | |
| PUU HULUHULU | PHH | 19 22.45 | 155 12.66 | 988 | 3 | | | | |
| PUU HONUAULA | PHO | 19 28.90 | 154 53.40 | 215 | 1 | 6.5 | 2720 | RF1 | |
| PUU PILI | PPL | 19 9.50 | 155 27.87 | 35 | 1 | 4.4 | 1360 | RF11 | |
| RIM | RIM | 19 23.90 | 155 16.60 | 1128 | 1 | 6.0 | 1020 | | |
| SOUTH POINT | SPT | 18 58.91 | 155 39.92 | 244 | 1 | 7.8 | 2040 | RF7 | |
| WAHAULA | WHA | 19 19.90 | 155 2.92 | 29 | 1 | 6.0 | 680 | RF9 | |
| WALDRON LEDGE | WLG | 19 25.49 | 155 15.69 | 1067 | 3 | | | | |
| OPTICAL SEISMOGRAPHS | | | | | | | | | |
| HALEAKALA Z | HAL | 20 46.00 | 156 15.00 | 2090 | 3 | 0.71 | | | |
| HALEAKALA EW | HAE | 20 46.00 | 156 15.00 | 2090 | 0 | 1.0 | | | Wood-Anderson |
| HALEAKALA NS | HAN | 20 46.00 | 156 15.00 | 2090 | 0 | 1.0 | | | Wood-Anderson |
| HILO Z | HIL | 19 43.20 | 155 5.30 | 20 | 3 | 1.0 | | | |
| HILO EW | HIE | 19 43.20 | 155 5.30 | 20 | 0 | 1.0 | | | Wood-Anderson |
| HILO NS | HIN | 19 43.20 | 155 5.30 | 20 | 0 | 1.0 | | | Wood-Anderson |
| KIPAPA | KIP | 21 25.40 | 158 .90 | 76 | 3 | 0.56 | | | |
| UWEKAHUNA Z | UWE | 19 25.40 | 155 17.60 | 1240 | 3 | 0.7 | | | |
| UWEKAHUNA Z | USZ | 19 25.40 | 155 17.60 | 1240 | 4 | 1.0 | | | |
| UWEKAHUNA EW | USE | 19 25.40 | 155 17.60 | 1240 | 4 | 1.0 | | | |
| UWEKAHUNA PEZ | | 19 25.40 | 155 17.60 | 1240 | | | | | 15-90 Press Ewing |
| UWEKAHUNA PEE | | 19 25.40 | 155 17.60 | 1240 | | | | | |
| UWEKAHUNA PEN | | 19 25.40 | 155 17.60 | 1240 | | | | | |

Table 5.--Seismic Instrumentation Types

Type 1. Consists of:

a) EV-17 - Electrotech EV-17 1.0 sec. period moving magnet vertical component seismometer or horizontal component adjusted for an output of 0.5 volts/cm/sec and 0.8 critically damped.

b) Preamp/VCO - Develco Model 6202 voltage controlled oscillator or a USGS/NCER Model JE202. 3 db points for bandpass filter at 0.1 Hz and 30 Hz. Signals are transmitted on audio FM carrier over cable or FM radio link to HVO.

Type 2. Consists of:

a) EV-17 - Electrotech EV-17 1.0 sec. period moving magnet vertical or horizontal component seismometer.

b) 3.5 Hz galvanometer with appropriate shunt resistances for critical damping. System is poorly calibrated.

Type 3. Consists of:

a) EV-17 Electrotech EV-17 (as described above), Hall-Sears HS-10 0.5 sec. period moving coil seismometer or Observatory-built 0.8 sec. period moving coil seismometer with HVO-built solid state seismic preamplifier (voltage gain, 200X), direct signal transmission over cable to HVO and HVO-built solid state amplifier and galvanometer driver, or Observatory-built electromagnetic seismometer with 2 Hz galvanometer. Peak magnification approximately 40,000 at 4 Hz.

Type 4. Consists of:

Sprengnether short period vertical and horizontal seismometers (E-W) with 1.5 sec. galvanometers, coupling factor = 0.25, 2X critically damped. Peak magnification approximately 1500X at 2 Hz.

Experimental type amplifier systems are not given type numbers.

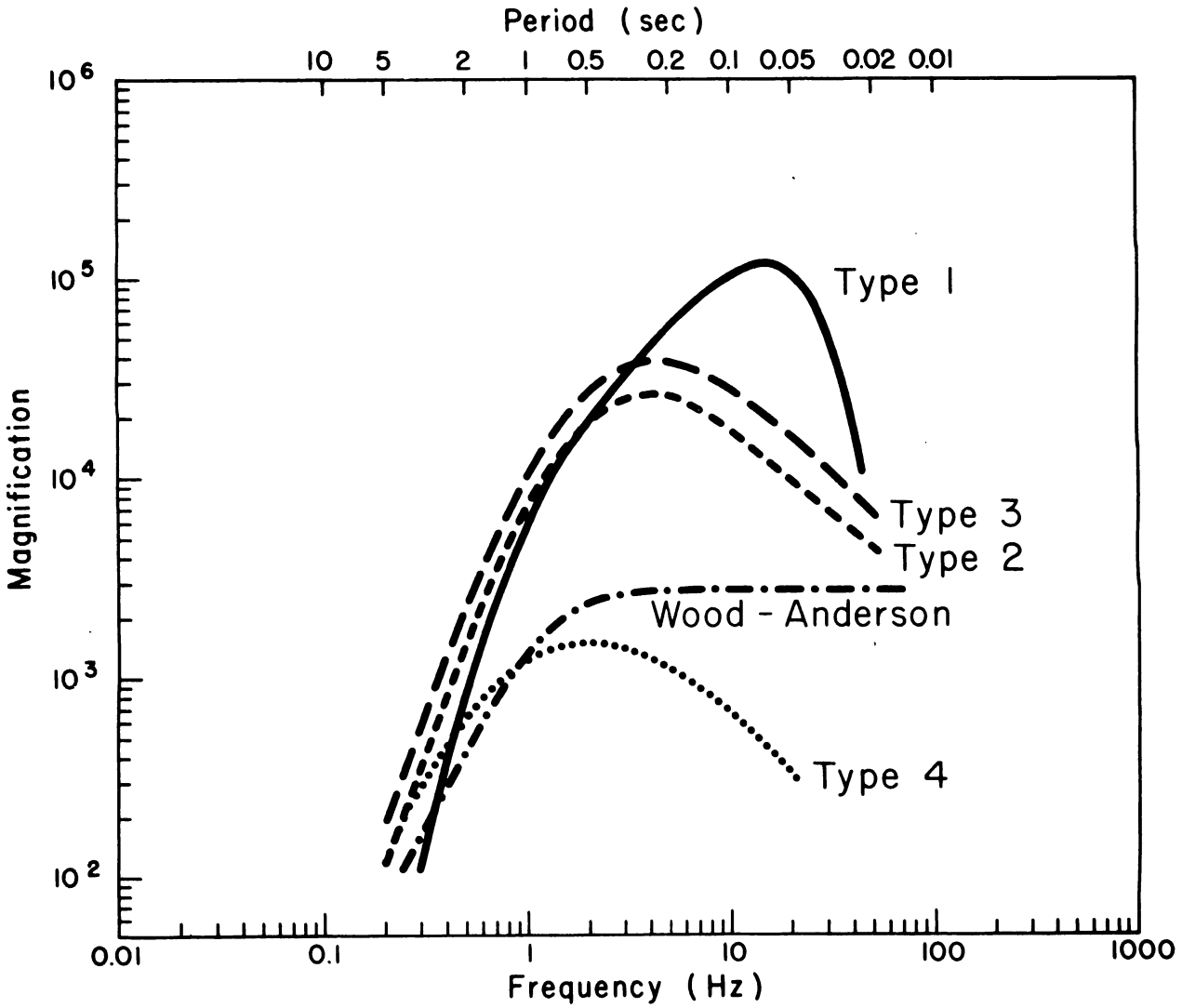


Figure 2.--System response curves for the Wood-Anderson torsion seismograph and for the four different types of seismometer-amplifier (or galvanometer) combinations in use by the Hawaiian Volcano Observatory.

## TILTING OF THE GROUND AROUND KILAUEA CALDERA

Tilting of the ground around the summit of Kilauea is monitored daily by a short-base water-tube tiltmeter in the Uwekahuna Vault, and at irregular intervals it is measured on a regional scale by means of a network of field tilt-bases and a portable water-tube tiltmeter. The attitude of the ground surface at each tilt-base is reported in terms of north-south and east-west tilt coordinates. Both coordinates at each station were arbitratily set equal to 500 when measurements at that station were begun. Increasing tilt coordinates correspond to northward and eastward tilting of the earth's surface; that is, to a relative subsidence toward the north and east. A one-unit change in coordinate corresponds to a tilting of 1 microradian (1 mm per km) in the direction indicated.

Location of and essential data on each tiltmeter station are listed in Table 8, Summary 69.

Table 6.--Tilt Coordinates at Uwekahuna,

July, August, and September 1973

| Date | N-S | E-W | Date | N-S | E-W |
|---|---|---|---|---|---|
| July 1 | 731 | 304 | Sept. 2 | 729 | 304 |
| 8 | 731 | 304 | 9 | 728 | 306 |
| 15 | 731 | 304 | 16 | 727 | 300 |
| 22 | 731 | 303 | 23 | 726 | 299 |
| 29 | 729 | 307 | 30 | 727 | 299 |
| Aug. 5 | 728 | 309 | | | |
| 12 | 729 | 304 | | | |
| 19 | 728 | 304 | | | |
| 26 | 726 | 308 | | | |

Table 7.--Tilt coordinates and changes at bases around Kilauea caldera. (See fig. 4)

| Tilt base | Date (1973) | Tilt N-S | Coordinates E-W | Rate ($10^{-6}$ rad/mo) and direction of tilting since last reading | Date of last reading |
|---|---|---|---|---|---|
| Uwekahuna (U on fig. 4) | 26 Sep | 745.8 | 308.2 | 4.89 N62.4°W | 14 May '73 |
| Tree Molds (TM) | 25 Sep | 577.8 | 481.3 | 0.82 N31.5°W | 14 May '73 |
| Sand Spit (SS) | 27 Sep | 1001.9 | 727.9 | 3.49 S41.4°W | 16 May '73 |
| Mehana (M) | 25 Sep | 619.1 | 602.2 | 1.27 N22.0°E | 15 May '73 |
| Keamoku (Kea) | 25 Sep | 772.6 | 235.6 | 1.62 N81.2°W | 15 May '73 |
| Ahua Kamokukolau (Kam) | 27 Sep | 393.0 | 516.8 | 3.99 S35.1°W | 14 May '73 |
| Kipuka Nene (KN) | 28 Sep | 276.9 | 494.8 | 0.76 S31.8°W | 16 May '73 |
| Hilina Pali (HP) | 28 Sep | 462.0 | 480.4 | 0.82 N57.1°W | 7 Dec '72 |
| Kapapala Ranch (Kap) | 26 Sep | 478.4 | 523.8 | 0.20 S21.3°E | 6 Dec '72 |

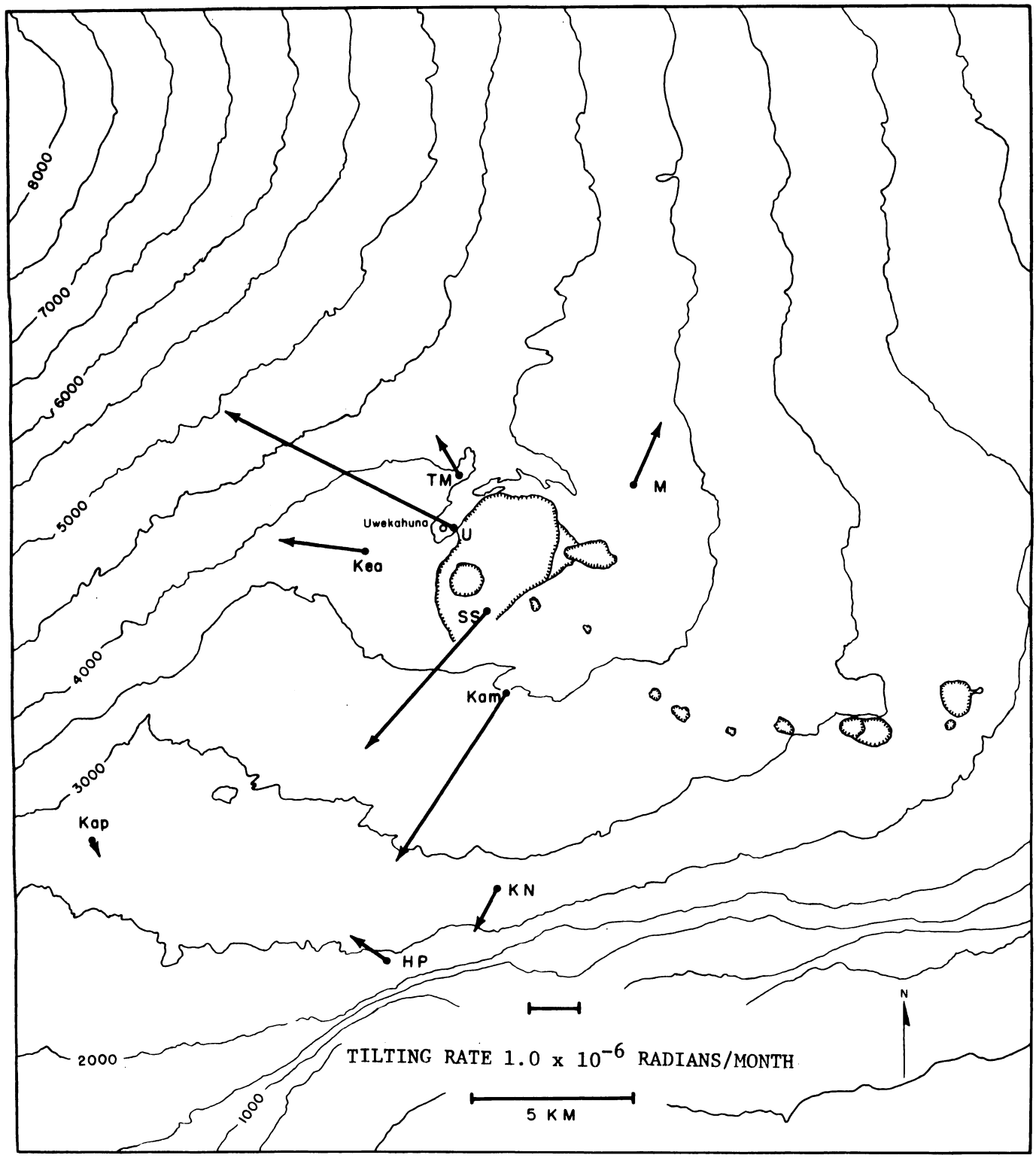


Figure 3.--Tilting of the ground around Kilauea Caldera. The vector depicting tilting at a given tilt base points in the direction of maximum relative subsidence, and its length is proportional to the rate of tilting during the measurement interval. Closed circles represent field tilt bases; open circles, short-base watertube tiltmeters. See Table 7 for explanation of abbreviations.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# HAWAIIAN VOLCANO OBSERVATORY

## SUMMARY 72

October, November, and December 1973

By

Patricia Stevenson*, Robert Y. Koyanagi,

and Arnold T. Okamura

Chronological Summary

By

Robert I. Tilling

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## CHRONOLOGICAL SUMMARY

Lava-lake activity at Mauna Ulu's summit crater, which resumed at the end of September, continued through the early part of this quarter. The sluggish but persistent influx of lava during October and early November slowly raised the level of the lake, despite intermittent, brief periods of complete stagnation and crusting. By mid-October, the eastern part containing the active vent was only 15 m below the crater rim, and the deepest area of the western part was about 32 m below the rim. The gradual rise of the lake was paralleled by a steady inflation of Kilauea's summit region, ultimately recording the greatest tumescence since tilt measurements have been made at Uwekahuna.

On November 4, lava overflowed the western end of Mauna Ulu, the first overflow since March 1972. The overflow continued until November 8 and formed a pahoehoe-aa flow that advanced about 2.5 km south of the crater. Sudden draining of Mauna Ulu during the early evening of November 10, accompanied by high-amplitude tremor and sharp deflation at Kilauea's summit, preceded a major breakout at Pauahi Crater later that evening. An eruptive fissure first opened in its east pit, and the fountain-fed lava ponded to form a rapidly rising lake. Soon lava burst from eruptive fissures within the west pit and from outside of the crater in a series of en echelon, N 70° E-trending fissures both west of Pauahi and from its east rim to north of Puu Huluhulu. At the height of the activity, lava from the lake in the east pit and from flows and fissures west of Pauahi cascaded into the west pit. All activity in the east pit and outside of Pauahi ceased by early morning of November 11, and drainback lowered the level of the new floor in the east pit about 20 m. Minor activity continued in the west pit for nearly another month, building a spatter cone. Lava from this cone fed, via surface or tubed-over streams, a small perched lava lake on the crater floor; overflows from this lake ultimately raised the floor to the level of the septum between the two pits.

Like the Pauahi-Hiiaka eruption earlier in the year (May 5), the November 10-11 activity in and near Pauahi resulted in a deflation of about 25 microradians at Kilauea's summit. The flows and crater filling at Pauahi and vicinity totalled approximately $2.8 \times 10^6$ $m^3$ in volume, and about 1.1 $km^2$ (272 acres) were covered by lava. Immediately upon cessation of the major activity on November 11, the Kilauea summit region began to reinflate at a moderately rapid rate. The 25-microradian deflation was recovered within about a week, and by December 22 the recorded tilt (E-W component of the Ideal-Aerosmith tiltmeter at Uwekahuna) peaked, surpassing the previous high reached in early November.

Mauna Ulu was inactive after November 10, marking an end to its second period of eruptive activity that had begun in February 1972. All visible activity in Pauahi stopped on December 9, coinciding with the complete cessation of harmonic tremor in the Pauahi-Mauna Ulu area

from December 9 to 12. Lava quietly returned to Mauna Ulu's summit crater on December 13 and low-level tremor resumed, and this can be considered the beginning of the third eruption of Mauna Ulu since 1969. The ensuing activity at Mauna Ulu was restricted to sporadic low fountaining from a spatter cone complex in a small, occasionally active lava lake. At year's end, activity at Mauna Ulu was intermittent and feeble, but Kilauea's summit region remained highly inflated.

## SEISMIC SUMMARY

Events recorded by the U. S. Geological Survey seismograph network in Hawaii fall into two categories:

1) Local earthquakes and tremor originating in the region of the Hawaiian Islands (usually within 100 km of at least one seismograph),

2) Distant earthquakes originating more than 3,000 km from Hawaii.

As an index of seismic activity at Hawaiian volcanoes, daily counts of earthquakes and minutes of tremor recorded by seismographs in Hawaii are listed in Table 1. The earthquakes are separated in groups on the basis of region of origin as determined by the analysis of records obtained daily at the Observatory (UWE, MLO, MLX, AHU, DES, NPT, WPT, MPH, OTL).

Computer locations of well-recorded events are listed in Table 2. The location of each seismograph station is listed in Table 4, along with a description of the equipment at each station.

Table 1.--Number of earthquakes and minutes of tremor recorded on seismographs around Kilauea

Tremor is separated into three categories: Deep, Intermediate, and Shallow, on the basis of relative amplitude on seismographs in the summit region. Unless otherwise stated, tremor is presumed to be associated with movement of magma within the central complex of Kilauea Volcano.

Earthquake categories are: Kilauea Summit 30 km, earthquakes from a source about 30 km beneath the summit region; Kilauea Summit Long-Period, earthquakes characterized by low-frequency waves that originate roughly 5 km beneath the summit region; Kilauea Summit Shallow, earthquakes a few km deep in the caldera region; SW Rift and Kaoiki, earthquakes along the southwest rift zone of Kilauea and the adjacent portions of the Kaoiki fault system; Upper East Rift, earthquakes from the upper east rift zone and the adjacent fault systems of Kilauea's south flank; Koae, earthquakes along the northeast-trending Koae fault system south of the caldera; Lower East Rift, earthquakes from the lower east rift zone of Kilauea; Offshore Puu Pili, offshore earthquakes mostly southeast of Puu Pili (PPL) station.

| Date (1973) | Tremor (m = minutes) h = hours) | | | Earthquakes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | SW Rift and Kaoiki | Upper East Rift | Koae | Lower East Rift | Offshore Puu Pili | Remarks |
| | Deep | Inter-mediate | Shallow | 30 KM | Long Period | Shallow | | | | | | |
| Oct. 1 | | 6m | | 3 | 7 | 147? | 8 | 44 | 2 | 6 | 1 | |
| 2 | | 5m | | | 8 | 209 | 13 | 20 | 2 | 2 | 1 | |
| 3 | | | | 5 | 21 | 219 | 14 | 36 | 8 | 3 | | |
| 4 | | | | | 16 | 324 | 15 | 42 | 3 | 6 | | |
| 5 | | 5m | | 1 | 19 | 324 | 8 | 41 | 6 | | | |
| 6 | | 12m | | 1 | 20 | 253 | 13 | 18 | 11 | 2 | ? | |
| 7 | | | | 5 | 36 | 349 | 9 | 16 | 7 | 1 | 1 | |
| 8 | | | | 73 | 51 | 411 | 14 | 32 | 8 | 4 | 2 | "30 km" aftershocks. |
| 9 | | 5m | | 33 | 52 | 711 | 10 | 21 | 5 | 5 | | |
| 10 | 14m | 10m | | 11 | 29 | 639 | 16 | 46 | 5 | 9 | 1 | |
| 11 | | 3m | | 3 | 32? | 537? | 6 | 26 | | 7 | | |
| 12 | | 19m | | 3 | 130 | 1245 | 21 | 35 | 8 | 6 | | |
| 13 | | 8m | | 11 | 109 | 1212 | 14 | 58 | 5 | 4 | | |
| 14 | | 22m | | 1 | 141 | 1244 | 18 | 56 | 13 | 11 | | |
| 15 | 5m | 29m | | 1 | 180 | 1340 | 15 | 44 | 10 | 11 | | |
| 16 | | 4m | | 2 | 113 | 1136 | 14 | 36 | 5 | 9 | | |
| 17 | | 3m | | 3 | 96 | 1095 | 17 | 36 | 9 | 13 | | |
| 18 | | 6m | | 1 | 81 | 1124 | 19 | 28 | 1 | 4 | | |
| 19 | 10m | | | 8 | 25 | 1023? | 21 | 46 | 8 | 5 | 9 | |
| 20 | | 92m? | | 7 | 35 | 1096 | 26 | 79 | 21 | 2 | 3 | |
| 21 | | | | 6 | 65 | 1372 | 47 | 58 | 11 | 7 | 10 | |
| 22 | | 8m | | 1 | 33 | 1108 | 22 | 30 | 3 | | 2 | |
| 23 | | 3m | | 2 | 33 | 1450 | 24 | 27 | 4 | 1 | | |
| 24 | | 11m | | 5 | 34 | 1295? | 14 | 42 | 5 | | 2 | |
| 25 | 20m | | | | 18 | 1190 | 19 | 32 | 5 | 4 | 2 | |
| 26 | | 10m | | | 37 | 1250 | 21 | 34 | 5 | 1 | 3? | |
| 27 | 2m? | 3m? | | 2 | 57 | 1494 | 16 | 49 | 4 | 1 | | |
| 28 | | | | | 56 | 1245 | 21 | 33 | 6 | 5 | | |
| 29 | | 8m | | 1 | 27 | 1226 | 11 | 28 | 8 | 3 | 2 | |
| 30 | | 7m | | 1 | 139 | 1100 | 17 | 50 | 3 | 5 | 1 | |
| 31 | 5m | | | 1 | 113 | 1066 | 15 | 33 | 3 | 4 | 1 | |

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | SW Rift and Kaoiki | Upper East Rift | Koae | Lower East Rift | Offshore Puu Pili | Remarks |
| | Deep | Inter-mediate | Shallow | 30 KM | Long Period | Shallow | | | | | | |
| Nov. 1 | | 6m | | 3 | 92 | 1000 | 11 | 60 | 3 | 8 | ? | |
| 2 | | 9m | | | 62 | 865 | 17 | 40 | 8 | 3 | 2 | |
| 3 | | | | | 33 | 697 | 15 | 44 | 2 | 4 | | |
| 4 | | 8m | | 1 | 36 | 370 | 10 | 31 | 3 | | | |
| 5 | | 17m | | | 19? | 181? | 8? | 26? | 7? | ? | | |
| 6 | | 24m | | | 24? | 175? | 3? | 9? | 3? | 1 | | |
| 7 | | | | 2 | 44 | 204 | 9 | 20 | 3 | 3 | 1 | |
| 8 | | | | 1 | 24 | 251 | 22 | 25 | 4 | 2 | 2 | |
| 9 | ? | | | | 12 | 359 | 9 | 23 | 2 | 2 | | |
| 10 | | | | 1 | 44? | 156? | 7? | 569? | 6? | 2? | | Small upper east rift quakes and Pauahi rockfalls-Pauahi eruption. |
| 11 | | | | | 23? | 29? | 8? | 29? | ? | 2 | | |
| 12 | | | | | 86? | 31? | 10? | 21? | ? | 3 | | |
| 13 | | | | | 161? | 69? | 21? | 28? | 6? | | 2 | Many small L-P summit quakes. |
| 14 | | | | 2 | 216? | 161? | 14 | 61? | | 3 | | |
| 15 | | 10m | | | 513? | 83 | 10 | 83? | 9 | 1 | | |
| 16 | 35m | | | 1 | 559? | 110? | 7? | 67? | 6? | | 1 | |
| 17 | | 10m | | 1 | 159? | 115 | 25 | 55? | 1 | | 5 | |
| 18 | | 3m | | | 82? | 99 | 7 | 36? | 3 | 6 | 1 | |
| 19 | | | | | 20? | 164? | 11? | 101? | 3? | 9 | | |
| 20 | | | | | 11? | 129? | 2? | 32? | 6? | 1 | | |
| 21 | | | | | 21 | 149 | 14 | 38? | | | 1? | |
| 22 | | | | 3 | 10 | 140 | 11 | 33? | 1 | 4 | | |
| 23 | | | | 2 | 21 | 254 | 4 | 32? | 29? | | | |
| 24 | | 2m? | | | 26 | 140 | 2 | 27 | 3 | 5 | 5? | |
| 25 | | | | 1 | 34 | 165 | 12 | 24 | 2 | | | |
| 26 | | | | | 60 | 142 | 8 | 25 | | 2 | | |
| 27 | | | | | 36? | 133? | 7? | 22? | 1? | | 1 | |
| 28 | | | | | 38 | 109? | 11 | 8? | 3 | 2 | | |
| 29 | | | | 1 | 56 | 162 | 9? | 21 | 5 | | | |
| 30 | | | | | 21 | 212 | 9 | 17 | 2 | 3 | 1? | |

| Date (1973) | Tremor (m = minutes h = hours) | | | Earthquakes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Kilauea Summit | | | SW Rift and Kaoiki | Upper East Rift | Koae | Lower East Rift | Offshore Puu Pili | Remarks |
| | Deep | Inter-mediate | Shallow | 30 KM | Long Period | Shallow | | | | | | |
| Dec. 1 | | | | 2 | 28 | 204 | 7 | 28 | 2 | 4 | | Small rockfalls at Hilina Pali, Halemaumau, and Pauahi during heavy rain. |
| 2 | | | | 1 | 24 | 193? | 9 | 16 | 11 | 4 | 1 | |
| 3 | | | | 2 | 21 | 218 | 18 | 22 | 2 | | 1 | |
| 4 | | 3m | | 1 | 23 | 177 | 8 | 25 | 2 | 2 | 2? | |
| 5 | | | | 1 | 22 | 212 | 10 | 15 | | 1 | 1 | |
| 6 | 5m | | | | 37 | 234 | 16 | 11 | 3 | 1 | 1 | |
| 7 | | | | | 61 | 311 | 13 | 51 | 6 | 2 | 1 | |
| 8 | 166m? | | | 1 | 58 | 431 | 10 | 33 | 2 | | 33? | |
| 9 | | | | | 24 | 268 | 3 | 24 | 5 | 1 | | |
| 10 | 5m | | | 1 | 51 | 409 | 16 | 36 | 8 | 1 | 1 | |
| 11 | | | | | 22 | 265 | 24 | 24 | 10 | 1 | ? | |
| 12 | | | | 23 | 17 | 274 | 23 | 26 | 9 | 6 | 3 | "30 KM" aftershocks. |
| 13 | | | | 18 | 18 | 250 | 9 | 13 | 4 | 7 | 1 | |
| 14 | | 5m | | 5 | 11 | 224 | 18 | 42 | 4 | 4 | | |
| 15 | | | | 3 | 2 | 148 | 17 | 20 | 3 | | 1 | |
| 16 | | 3m | | 1 | 14 | 157 | 7 | 20 | | 1 | 2 | |
| 17 | | | | 2 | 24 | 223 | 20 | 24 | 4 | 2 | 3 | |
| 18 | | | | 1 | 7 | 240 | 5 | 20 | 3 | 2 | 1 | |
| 19 | | | | | 6 | 240 | 14 | 17 | 1 | 5 | 3 | |
| 20 | | 7m | | 2 | 15 | 250 | 10 | 24 | 3 | 2 | | |
| 21 | | 7m | | 3 | 35 | 267 | 18 | 18 | 6 | 1 | 4 | |
| 22 | | | | 4 | 7 | 313 | 33 | 18 | 10 | 2 | 2 | |
| 23 | | | | | 38 | 327 | 13 | 30 | 5 | 4 | 4 | |
| 24 | | | | | 27 | 196 | 14 | 84 | 7 | | 2 | |
| 25 | | 4m | | | 14 | 181 | 19 | 78 | | | 1 | |
| 26 | | | | 1 | 5 | 172 | 14 | 51 | 1 | 5 | 1 | |
| 27 | 6m | | | | 19 | 277 | 12 | 58 | 2 | 1 | | |
| 28 | 42m | 3m | | | 31 | 319 | 8 | 59 | 1 | 5 | 1 | |
| 29 | | 3m | | 2 | 26 | 315 | 17 | 35 | 3 | 1 | | |
| 30 | | 19m | | | 9 | 190 | 9 | 83 | 3 | 3 | | |
| 31 | 2m? | 2m? | | | 4 | 137 | 8 | 51 | 1 | 1 | | |

Table 2 is a chronological listing of successfully located earthquakes. For each event the following data are presented:

Origin time in Hawaii Standard Time: date, hour (HR), minute (MN), and second (SEC).

Epicenter in degrees and minutes of North latitude (LAT N) and West longitude (LONG W). Poor convergence of the epicenter solution is indicated by "?".

Depth - depth of focus in km. Assumed depth is indicated by "x".

Mag - magnitude, if determined.

NO - number of stations used in locating earthquakes.

GAP - largest azimuthal separation in degrees between stations.

DMIN - epicentral distance in km to the nearest station.

ERT - standard error of the origin time in seconds.

ERH - standard error of the epicenter in km.

ERZ - standard error of the depth in km.

MD - mean deviation of the time residuals. $\left[= \sum_i R_i/NO \right]$ where $R_i$ is the observed seismic wave arrival time less the computed time at the $i^{th}$ station.

Q - solution quality of the hypocenter. This measure is intended to indicate the general reliability of each solution:

| Q | EPICENTER | FOCAL DEPTH |
|---|---|---|
| A | excellent | good |
| B | good | fair |
| C | fair | poor |
| D | poor | poor |

Q is based both on the nature of the station distribution with respect to the earthquake and the statistical measures of the solution. These two factors are each rated independently according to the following scheme:

Station Distribution

| | NO | GAP | DMIN |
|---|---|---|---|
| A | $\geq$ 8 | $\leq$ 120° | $\leq$ DEPTH or 5 km |
| B | $\geq$ 6 | $\leq$ 150° | $\leq$ 2 x DEPTH or 10 km |
| C | $\geq$ 6 | $\leq$ 225° | $\leq$ 50 km |
| | $\geq$ 4 | $\leq$ 180° | |
| D | Others | | |

Statistical Measures

| | ERH(km) | ERZ(km) | MD(sec) | RMAX(sec)* |
|---|---|---|---|---|
| A | $\leq$ 1.0 | $\leq$ 2.0 | $\leq$ 0.10 | $\leq$ 0.25 |
| B | $\leq$ 2.5 | $\leq$ 5.0 | $\leq$ 0.20 | $\leq$ 0.50 |
| C | $\leq$ 5.0 | | $\leq$ 0.30 | $\leq$ 0.75 |
| D | Others | | | |

Q is taken as the average of the ratings from the two schemes, that is, an A and a C yield a B, and two B's yield a B. When the two ratings are only one level apart the lower one is used, that is, an A and a B yield a B (Hamilton and others, 1969).

The criteria for Q are the same as used by the Office of Earthquake Research and Crustal Studies, U. S. Geological Survey.

* RMAX is the maximum residual

SUMMARY OF SEISMIC EVENTS

| 1973 | | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | 1 | 5 | 19 | 33.9 | 19-21.8 | 155- 6.6 | 3.7 | | 17 | 77 | 5.7 | 0.10 | 0.7 | 1.3 | 0.18 | B |
| | 1 | 6 | 43 | 6.6 | 20- 6.5 | 155-50.9 | 32.8 | 3.9 | 33 | 149 | 7.6 | 0.11 | 0.8 | 1.8 | 0.12 | B |
| | 1 | 8 | 43 | 30.8 | 19-10.4 | 155-22.9 | 8.0* | 2.1 | 14 | 213 | 8.9 | 0.34 | 2.8 | | 0.27 | D |
| | 1 | 11 | 37 | 38.1 | 19-19.8 | 155-10.3 | 7.5 | | 14 | 90 | 4.3 | 0.09 | 0.9 | 0.7 | 0.14 | B |
| | 1 | 11 | 37 | 59.7 | 19-20.0 | 155-10.3 | 7.4 | | 14 | 84 | 3.8 | 0.11 | 0.9 | 0.7 | 0.14 | B |
| | 1 | 11 | 55 | 51.6 | 19-20.3 | 155- 5.8? | 8.0* | | 12 | 118 | 5.0 | 0.20 | 1.8 | | 0.31 | C |
| | 1 | 12 | 9 | 7.3 | 19-20.6 | 155- 8.4 | 5.9 | 1.8 | 19 | 74 | 3.7 | 0.10 | 0.8 | 0.8 | 0.20 | B |
| | 1 | 15 | 17 | 52.3 | 19-22.5 | 155- 5.6? | 0.0 | 1.8 | 16 | 75 | 6.8 | 2.10 | 1.2 | 23.0 | 0.27 | C |
| | 1 | 16 | 59 | 39.9 | 19-21.2 | 155- 8.8 | 5.9 | 2.2 | 24 | 65 | 2.5 | 0.10 | 0.8 | 0.8 | 0.24 | B |
| | 1 | 18 | 33 | 1.3 | 19-14.8 | 155-19.9 | 35.8 | | 22 | 158 | 6.3 | 0.27 | 1.2 | 2.3 | 0.12 | C |
| | 1 | 23 | 58 | 15.9 | 19-20.2 | 155- 8.9? | 8.4 | | 17 | 72 | 3.8 | 0.09 | 1.0 | 0.8 | 0.16 | B |
| | 2 | 0 | 32 | 51.8 | 19-13.4 | 155-25.4 | 3.4 | 2.3 | 23 | 133 | 5.9 | 0.15 | 1.0 | 1.2 | 0.29 | C |
| | 2 | 0 | 43 | 48.8 | 19-20.2 | 155-11.4 | 4.2 | | 17 | 92 | 4.4 | 0.16 | 1.0 | 1.8 | 0.28 | B |
| | 2 | 0 | 46 | 47.0 | 19-19.7 | 155-11.6 | 8.0* | | 16 | 90 | 5.2 | 0.06 | 0.5 | | 0.09 | B |
| | 2 | 1 | 5 | 49.5 | 19-22.6 | 155- 9.6 | 2.3 | 1.9 | 22 | 77 | 1.1 | 0.09 | 0.6 | 1.2 | 0.16 | B |
| | 2 | 1 | 50 | 47.8 | 19-20.3 | 155-12.0? | 7.9 | | 18 | 78 | 5.1 | 0.09 | 0.9 | 0.7 | 0.14 | B |
| | 2 | 2 | 0 | 59.0 | 19-13.6 | 155-26.3 | 5.5 | 2.0 | 15 | 139 | 8.0 | 0.11 | 0.9 | 0.9 | 0.20 | B |
| | 2 | 2 | 7 | 25.3 | 19-22.9 | 155- 8.9? | 1.6 | 1.6 | 11 | 109 | 2.3 | 0.65 | 1.0 | 1.3 | 0.15 | B |
| | 2 | 6 | 51 | 14.9 | 20-13.4 | 155-30.3 | 4.0 | 3.3 | 27 | 249 | 30.7 | 0.86 | 2.2 | 6.1 | 0.14 | D |
| | 2 | 7 | 18 | 14.4 | 20-13.8 | 155-30.2 | 6.1 | 3.1 | 26 | 251 | 31.1 | 0.93 | 2.4 | 6.5 | 0.14 | D |
| | 2 | 14 | 9 | 55.4 | 19-23.9 | 155-23.9 | 8.0* | | 12 | 77 | 6.9 | 0.06 | 0.6 | | 0.11 | B |
| | 2 | 15 | 24 | 58.3 | 19-21.8 | 155- 8.6 | 4.2 | | 17 | 80 | 2.2 | 0.11 | 0.9 | 1.1 | 0.22 | B |
| | 2 | 16 | 35 | 54.8 | 19-24.5 | 155-24.0 | 8.0* | | 14 | 127 | 7.4 | 0.05 | 0.4 | | 0.08 | C |
| | 2 | 18 | 1 | 31.3 | 19-22.4 | 155-24.7 | 8.0 | 1.6 | 17 | 89 | 4.6 | 0.05 | 0.5 | 0.4 | 0.11 | B |
| | 2 | 19 | 20 | 39.9 | 19-11.8 | 155-31.7 | 8.0* | | 17 | 88 | 7.9 | 0.10 | 0.9 | | 0.18 | B |
| | 3 | 2 | 5 | 46.8 | 19-19.6 | 155-16.4 | 6.9 | 1.5 | 23 | 94 | 2.0 | 0.05 | 0.4 | 0.4 | 0.12 | B |
| | 3 | 4 | 44 | 33.7 | 19-24.9 | 155-24.2 | 8.0* | 1.5 | 12 | 136 | 7.4 | 0.05 | 0.4 | | 0.08 | C |
| | 3 | 16 | 14 | 8.1 | 19-18.1 | 155-14.1 | 8.1 | 1.7 | 19 | 84 | 2.3 | 0.06 | 0.5 | 0.3 | 0.10 | B |
| | 3 | 16 | 14 | 51.4 | 19-18.3 | 155-14.3 | 7.6 | 1.9 | 22 | 89 | 2.7 | 0.04 | 0.4 | 0.3 | 0.09 | A |
| | 4 | 2 | 24 | 58.1 | 19-18.4 | 155-14.1 | 7.9 | 1.6 | 19 | 105 | 2.9 | 0.05 | 0.5 | 0.3 | 0.10 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | 4 | 2 | 40 10.5 | 19-24.9 | 155-16.5? | 2.0 | | 9 | 122 | 0.8 | 0.03 | 0.2 | 0.1 | 0.03 | B |
| | 4 | 6 | 8 20.2 | 19-20.4 | 155- 8.9 | 4.5 | 1.7 | 13 | 69 | 3.6 | 0.10 | 0.7 | 1.0 | 0.16 | B |
| | 4 | 9 | 9 5.6 | 19-19.1 | 155-15.7 | 5.6 | | 22 | 112 | 3.5 | 0.09 | 0.6 | 0.6 | 0.18 | B |
| | 4 | 17 | 53 21.0 | 19- 8.0 | 155- 7.5 | 8.7 | 3.0 | 32 | 221 | 17.3 | 0.34 | 1.9 | 1.6 | 0.24 | C |
| | 4 | 20 | 37 45.4 | 19-21.9 | 155- 8.1? | 0.0 | 1.7 | 16 | 86 | 8.4 | 3.98 | 0.5 | 7.6 | 0.10 | C |
| | 4 | 20 | 56 4.2 | 19-20.6 | 155- 7.8? | 8.0 | 1.8 | 16 | 83 | 4.4 | 0.09 | 0.9 | 0.7 | 0.16 | B |
| | 4 | 21 | 6 41.2 | 19-20.6 | 155- 7.4 | 8.0* | 1.8 | 12 | 91 | 5.1 | 0.18 | 1.5 | | 0.26 | B |
| | 5 | 15 | 54 16.4 | 19-20.3 | 155-12.2 | 5.9 | | 23 | 75 | 4.0 | 0.10 | 0.8 | 0.7 | 0.20 | B |
| | 5 | 15 | 55 10.1 | 19-20.3 | 155- 9.2? | 7.0 | | 24 | 74 | 3.5 | 0.09 | 0.8 | 0.5 | 0.19 | B |
| | 5 | 20 | 59 2.6 | 19-23.2 | 155-23.1 | 8.0* | | 12 | 99 | 5.6 | 0.04 | 0.4 | | 0.07 | B |
| | 6 | 0 | 46 29.6 | 19-22.9 | 155-15.9 | 20.3 | | 18 | 41 | 0.8 | 0.09 | 0.5 | 0.9 | 0.06 | A |
| | 6 | 5 | 15 19.2 | 19-19.1 | 155-13.5 | 7.2 | 1.6 | 24 | 70 | 3.8 | 0.09 | 0.7 | 0.5 | 0.16 | B |
| | 6 | 5 | 42 26.4 | 19-22.2 | 155-10.4 | 7.2 | | 16 | 164 | 1.0 | 0.13 | 0.8 | 0.4 | 0.10 | C |
| | 6 | 9 | 58 54.9 | 19-21.8 | 155-16.2 | 27.6 | | 25 | 60 | 1.3 | 0.15 | 0.8 | 1.3 | 0.11 | B |
| | 6 | 10 | 12 18.6 | 19-21.1 | 155-27.1? | 6.7 | | 22 | 103 | 2.8 | 0.11 | 0.8 | 0.7 | 0.21 | B |
| | 6 | 12 | 35 44.5 | 19-22.8 | 155- 4.9 | 2.6 | | 22 | 138 | 6.4 | 0.11 | 0.7 | 1.0 | 0.17 | B |
| | 6 | 20 | 54 12.3 | 19-22.3 | 155- 7.2? | 0.0 | | 22 | 99 | 8.7 | 3.25 | 0.5 | 6.2 | 0.13 | C |
| | 7 | 3 | 12 57.7 | 19-18.9 | 155-13.5 | 6.8 | | 22 | 81 | 3.4 | 0.09 | 0.8 | 0.5 | 0.17 | B |
| | 7 | 3 | 14 46.8 | 19-18.6 | 155-13.6 | 6.7 | | 20 | 87 | 3.0 | 0.11 | 0.8 | 0.6 | 0.18 | B |
| | 7 | 3 | 33 27.6 | 19-18.9 | 155-13.6 | 7.2 | | 21 | 84 | 3.4 | 0.09 | 0.7 | 0.5 | 0.15 | B |
| | 7 | 14 | 12 38.1 | 19- 0.9 | 155-27.3 | 37.2 | | 17 | 222 | 16.0 | 0.52 | 2.6 | 4.4 | 0.16 | C |
| | 7 | 15 | 10 51.4 | 19-18.5 | 155-10.8? | 7.6 | | 17 | 128 | 5.4 | 0.15 | 1.1 | 0.8 | 0.21 | C |
| | 7 | 21 | 43 18.6 | 19-21.7 | 155-18.4 | 22.0 | | 17 | 66 | 3.5 | 0.26 | 1.4 | 2.4 | 0.15 | B |
| | 8 | 6 | 18 57.5 | 19-19.7 | 155-13.0 | 3.5 | | 23 | 73 | 5.0 | 0.10 | 0.7 | 1.0 | 0.22 | B |
| | 8 | 16 | 21 16.6 | 19-18.1 | 155-25.8 | 49.4 | 2.5 | 20 | 111 | 3.5 | 0.23 | 0.9 | 2.1 | 0.10 | B |
| | 8 | 18 | 17 42.2 | 19-20.6 | 155- 8.6 | 7.6 | 3.2 | 27 | 72 | 3.5 | 0.08 | 0.7 | 0.5 | 0.16 | B |
| | 8 | 21 | 16 22.8 | 19-18.5 | 155-24.9? | 8.0 | | 21 | 99 | 4.3 | 0.08 | 0.7 | 0.6 | 0.19 | B |
| | 9 | 1 | 53 45.2 | 19-19.1 | 155-15.9 | 29.6 | 4.6 | 35 | 98 | 3.2 | 0.14 | 0.8 | 1.3 | 0.16 | B |
| | 9 | 1 | 59 34.6 | 19-19.5 | 155-15.7 | 28.0 | 2.4 | 21 | 140 | 3.2 | 0.12 | 0.8 | 1.2 | 0.11 | B |
| | 9 | 2 | 1 2.4 | 19-18.7 | 155-16.3 | 29.6 | 4.3 | 35 | 106 | 3.2 | 0.13 | 0.8 | 1.2 | 0.16 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 9 | 2 | 16 | 54.5 | 19-18.3 | 155-16.4 | 28.4 | 2.4 | 31 | 114 | 3.8 | 0.12 | 0.8 | 1.2 | 0.14 | B |
| 9 | 2 | 19 | 43.4 | 19-18.5 | 155-16.3 | 29.3 | 2.7 | 33 | 110 | 3.5 | 0.13 | 0.8 | 1.3 | 0.15 | B |
| 9 | 2 | 20 | 39.3 | 19-18.6 | 155-16.2 | 28.7 | 2.1 | 28 | 108 | 3.5 | 0.11 | 0.7 | 1.1 | 0.12 | B |
| 9 | 2 | 23 | 47.5 | 19-16.9 | 155-17.7 | 30.6 | 2.5 | 29 | 142 | 2.6 | 0.13 | 0.8 | 1.3 | 0.13 | B |
| 9 | 2 | 27 | 24.1 | 19-19.4 | 155-16.3 | 28.9 | 2.1 | 22 | 97 | 2.3 | 0.16 | 0.9 | 1.6 | 0.11 | B |
| 9 | 2 | 50 | 36.8 | 19-19.0 | 155-16.3 | 29.5 | 2.7 | 35 | 101 | 2.9 | 0.12 | 0.8 | 1.2 | 0.14 | B |
| 9 | 3 | 1 | 13.2 | 19-23.9 | 155-10.0 | 42.5 | | 19 | 132 | 3.4 | 0.29 | 1.4 | 2.5 | 0.12 | B |
| 9 | 3 | 17 | 59.5 | 19-19.4 | 155-16.3 | 28.0 | 2.1 | 24 | 97 | 2.3 | 0.15 | 1.0 | 1.3 | 0.12 | B |
| 9 | 3 | 27 | 28.9 | 19-18.8 | 155-16.0 | 29.0 | 2.6 | 32 | 102 | 3.4 | 0.13 | 0.8 | 1.3 | 0.15 | B |
| 9 | 4 | 35 | 39.9 | 19-18.8 | 155-15.4 | 30.1 | 2.1 | 24 | 97 | 4.3 | 0.15 | 0.9 | 1.4 | 0.12 | B |
| 9 | 4 | 59 | 49.1 | 19-19.9 | 155-15.5 | 29.3 | 2.9 | 34 | 81 | 3.3 | 0.12 | 0.7 | 1.2 | 0.14 | B |
| 9 | 5 | 57 | 45.1 | 19-17.3 | 155-17.6 | 32.6 | | 15 | 135 | 2.3 | 0.29 | 1.2 | 2.9 | 0.11 | B |
| 9 | 9 | 7 | 46.1 | 19-19.3 | 155-13.5 | 8.0* | | 14 | 123 | 6.0 | 0.06 | 0.5 | | 0.10 | C |
| 9 | 10 | 48 | 17.0 | 19-19.5 | 155-16.7 | 28.9 | | 19 | 98 | 1.7 | 0.24 | 1.2 | 2.2 | 0.12 | B |
| 9 | 11 | 17 | 27.0 | 19-20.4 | 155-16.7 | 27.3 | 2.0 | 18 | 78 | 1.3 | 0.15 | 0.8 | 1.4 | 0.10 | B |
| 9 | 18 | 12 | 17.8 | 19-19.9 | 155-16.3 | 29.6 | 2.1 | 21 | 90 | 4.6 | 0.17 | 1.0 | 1.7 | 0.14 | B |
| 10 | 4 | 25 | 38.2 | 19-20.0 | 155-11.8 | 5.9 | 1.6 | 27 | 82 | 4.8 | 0.08 | 0.6 | 0.6 | 0.19 | B |
| 10 | 10 | 5 | 7.6 | 19-19.4 | 155-16.0 | 5.9 | | 15 | 104 | 2.7 | 0.10 | 0.7 | 0.7 | 0.15 | B |
| 10 | 10 | 7 | 31.8 | 19-21.8 | 155-15.5 | 23.0 | | 16 | 68 | 1.3 | 0.17 | 0.8 | 1.6 | 0.07 | A |
| 10 | 12 | 29 | 15.4 | 19-21.3 | 155-16.3 | 25.2 | | 19 | 66 | 2.1 | 0.13 | 0.6 | 1.2 | 0.07 | A |
| 10 | 14 | 20 | 48.0 | 19-20.4 | 155- 8.8 | 5.6 | 1.7 | 22 | 69 | 3.6 | 0.11 | 0.8 | 0.8 | 0.22 | B |
| 10 | 15 | 19 | 23.6 | 19-24.6 | 155-16.2 | 11.3 | | 19 | 59 | 1.4 | 0.07 | 0.5 | 0.6 | 0.09 | A |
| 10 | 19 | 4 | 19.6 | 19-23.8 | 155-24.2 | 4.4 | 1.5 | 18 | 120 | 6.5 | 0.13 | 0.8 | 1.4 | 0.18 | B |
| 10 | 19 | 28 | 28.3 | 19-11.1 | 155-20.0 | 38.7 | 2.4 | 30 | 175 | 12.8 | 0.19 | 0.9 | 1.7 | 0.13 | C |
| 10 | 21 | 14 | 21.9 | 19-19.6 | 155-15.0 | 31.4 | | 23 | 78 | 4.3 | 0.14 | 0.8 | 1.4 | 0.10 | B |
| 10 | 22 | 14 | 6.2 | 19-20.5 | 155- 6.2? | 8.0* | 1.9 | 15 | 106 | 5.8 | 0.13 | 1.2 | | 0.24 | B |
| 11 | 2 | 1 | 29.0 | 19-51.0 | 155-44.1 | 16.8* | 2.6 | 20 | 181 | 29.9 | 0.18 | 1.7 | | 0.22 | C |
| 11 | 2 | 29 | 30.8 | 19-19.7 | 155-10.0 | 7.3 | 1.7 | 17 | 90 | 4.4 | 0.10 | 0.8 | 0.6 | 0.16 | B |
| 11 | 5 | 3 | 39.3 | 19-21.4 | 155- 8.4 | 4.0 | 1.7 | 22 | 79 | 2.8 | 0.11 | 0.8 | 0.9 | 0.22 | B |
| 11 | 11 | 7 | 11.8 | 19-22.4 | 155-22.6? | 6.6 | | 11 | 84 | 4.2 | 0.10 | 0.8 | 2.0 | 0.11 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 11 | 11 | 10 | 55.2 | 19-20.2 | 155-16.9 | 27.9 | 2.1 | 26 | 82 | 0.8 | 0.13 | 0.7 | 1.3 | 0.11 | B |
| 11 | 17 | 53 | 52.6 | 19-18.4 | 155-25.8 | 8.3 | | 20 | 96 | 4.1 | 0.08 | 0.7 | 1.4 | 0.18 | B |
| 11 | 19 | 55 | 37.3 | 19-28.7 | 155-27.9 | 8.0* | 2.1 | 16 | 87 | 8.4 | 0.04 | 0.4 | | 0.07 | C |
| 11 | 20 | 40 | 18.7 | 19-20.7 | 155-12.7 | 6.3 | 1.5 | 24 | 65 | 3.3 | 0.09 | 0.7 | 0.6 | 0.20 | B |
| 11 | 21 | 5 | 1.1 | 19-13.9 | 155-58.9 | 25.4* | | 7 | 342 | 12.2 | 0.31 | 4.4 | | 0.09 | D |
| 11 | 22 | 24 | 43.0 | 19-27.9 | 155-27.0 | 7.8 | 2.0 | 26 | 80 | 7.3 | 0.08 | 0.5 | 0.5 | 0.13 | B |
| 11 | 22 | 30 | 1.7 | 19-22.1 | 155-11.4 | 6.9 | 1.5 | 17 | 89 | 2.2 | 0.06 | 0.6 | 0.5 | 0.13 | B |
| 11 | 23 | 12 | 41.2 | 19-19.1 | 155-16.5 | 28.6 | 2.1 | 31 | 102 | 2.5 | 0.12 | 0.8 | 1.2 | 0.14 | B |
| 11 | 23 | 55 | 38.6 | 19-25.4 | 155-52.1 | 9.4 | | 10 | 143 | 8.8 | 0.20 | 2.7 | 3.7 | 0.17 | C |
| 12 | 0 | 22 | 56.3 | 19-19.7 | 155-13.4 | 8.0* | | 20 | 69 | 5.0 | 0.04 | 0.3 | | 0.08 | B |
| 12 | 10 | 45 | 58.5 | 19-27.4 | 155-24.3 | 12.0 | 2.3 | 22 | 72 | 4.7 | 0.05 | 0.6 | 0.5 | 0.11 | B |
| 12 | 22 | 5 | 24.5 | 19-23.6 | 155-25.6? | 7.5 | 1.9 | 23 | 60 | 4.1 | 0.08 | 0.6 | 0.6 | 0.12 | B |
| 13 | 4 | 56 | 23.3 | 19-21.2 | 155- 6.6 | 8.0* | 1.9 | 16 | 87 | 5.8 | 0.12 | 1.1 | | 0.22 | B |
| 13 | 5 | 10 | 14.5 | 19-19.8 | 155-15.4 | 28.0 | 2.1 | 26 | 82 | 3.5 | 0.15 | 0.9 | 1.5 | 0.15 | B |
| 13 | 5 | 11 | 13.2 | 19-23.7 | 155-16.7 | 12.5 | 1.8 | 21 | 44 | 0.4 | 0.05 | 0.6 | 0.4 | 0.11 | B |
| 13 | 6 | 11 | 11.6 | 20-37.9 | 155-55.6 | 14.7* | 4.3 | 37 | 204 | 36.8 | 0.10 | 1.2 | | 0.13 | C |
| 13 | 13 | 2 | 39.0 | 19-20.5 | 155-15.6 | 31.2 | 2.1 | 20 | 78 | 3.3 | 0.21 | 1.1 | 2.0 | 0.11 | B |
| 13 | 16 | 1 | 18.9 | 19-20.2 | 155-17.0 | 23.1 | | 18 | 81 | 0.7 | 0.27 | 1.1 | 2.6 | 0.12 | B |
| 13 | 17 | 19 | 31.3 | 19-20.2 | 155-11.3 | 8.9 | 1.7 | 15 | 95 | 4.3 | 0.08 | 0.7 | 2.0 | 0.09 | A |
| 13 | 21 | 29 | 30.1 | 19-21.1 | 155-12.9 | 8.0* | | 17 | 91 | 5.7 | 0.07 | 0.6 | | 0.12 | B |
| 13 | 22 | 43 | 12.6 | 19-20.6 | 155-16.4 | 28.2 | | 19 | 76 | 2.0 | 0.25 | 1.2 | 2.3 | 0.13 | B |
| 13 | 23 | 20 | 2.7 | 19-19.5 | 155-15.2 | 29.5 | | 23 | 83 | 4.0 | 0.16 | 1.0 | 1.6 | 0.13 | B |
| 14 | 11 | 42 | 28.9 | 19-45.3 | 155-47.9 | 18.4 | 2.9 | 25 | 154 | 8.5 | 0.11 | 0.8 | 2.1 | 0.11 | C |
| 14 | 13 | 40 | 1.4 | 19-19.0 | 155-13.6 | 6.7 | | 17 | 83 | 3.6 | 0.10 | 0.7 | 0.7 | 0.17 | B |
| 14 | 17 | 18 | 55.5 | 19-20.9 | 155-11.4 | 5.0 | 2.5 | 28 | 69 | 3.5 | 0.09 | 0.7 | 0.7 | 0.25 | B |
| 14 | 18 | 57 | 11.9 | 19-52.4 | 155-33.7 | 29.5 | 2.6 | 23 | 125 | 15.0 | 0.20 | 1.0 | 2.5 | 0.11 | B |
| 15 | 0 | 32 | 12.8 | 19-20.0 | 155-12.0 | 5.6 | 1.6 | 25 | 80 | 4.6 | 0.09 | 0.7 | 0.6 | 0.22 | B |
| 15 | 1 | 15 | 7.5 | 19-24.4 | 155-17.9 | 6.8 | 1.1 | 15 | 59 | 1.2 | 0.07 | 0.6 | 0.5 | 0.12 | B |
| 15 | 3 | 39 | 34.0 | 19-23.9 | 155-17.9 | 8.7 | 1.5 | 13 | 61 | 1.0 | 0.16 | 1.1 | 1.5 | 0.13 | B |
| 15 | 6 | 25 | 36.7 | 19-17.1 | 155-29.0 | 7.0 | 2.0 | 16 | 87 | 10.3 | 0.10 | 0.9 | 0.9 | 0.21 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 15 | 8 | 25 | 13.9 | 19-24.9 | 155-17.4 | 9.0 | 0.8 | 13 | 88 | 0.7 | 0.13 | 0.8 | 1.2 | 0.10 | B |
| 15 | 8 | 26 | 9.2 | 19-25.4 | 155-27.3? | 7.5 | 1.7 | 20 | 108 | 5.4 | 0.06 | 0.5 | 1.3 | 0.09 | B |
| 15 | 12 | 24 | 58.6 | 19-25.0 | 155-17.0 | 9.5 | 0.9 | 13 | 120 | 0.1 | 0.14 | 0.7 | 1.1 | 0.08 | A |
| 15 | 14 | 54 | 17.3 | 19-24.6 | 155-17.0 | 0.7 | 0.4 | 11 | 69 | 0.5 | 0.07 | 0.2 | 0.2 | 0.09 | A |
| 15 | 15 | 10 | 59.7 | 19-19.6 | 155-15.9 | 6.1 | 1.5 | 20 | 99 | 2.7 | 0.10 | 0.8 | 0.6 | 0.21 | B |
| 15 | 15 | 29 | 19.8 | 19-20.1 | 155-13.1 | 5.7 | 1.5 | 22 | 66 | 4.3 | 0.09 | 0.7 | 0.6 | 0.19 | B |
| 15 | 17 | 26 | 20.3 | 19-24.5 | 155-16.8 | 8.9 | 0.7 | 14 | 78 | 0.8 | 0.11 | 0.7 | 0.9 | 0.08 | A |
| 15 | 18 | 15 | 46.2 | 19-24.7 | 155-16.9 | 8.1 | 1.0 | 11 | 95 | 0.4 | 0.10 | 0.5 | 0.8 | 0.06 | A |
| 15 | 22 | 47 | 29.7 | 20- 6.8 | 156- 2.6 | 2.3* | 3.0 | 22 | 278 | 27.7 | 0.34 | 2.1 | | 0.14 | D |
| 16 | 0 | 15 | 33.0 | 19-24.8 | 155-17.0 | 8.8 | 0.8 | 13 | 63 | 0.2 | 0.12 | 0.6 | 1.0 | 0.06 | A |
| 16 | 1 | 6 | 12.4 | 19-24.6 | 155-17.4 | 7.7 | 0.9 | 12 | 60 | 0.9 | 0.04 | 0.4 | 0.3 | 0.05 | A |
| 16 | 2 | 17 | 12.2 | 19-25.2 | 155-16.8 | 9.1 | 0.7 | 13 | 126 | 0.7 | 0.13 | 0.8 | 1.1 | 0.09 | B |
| 16 | 4 | 14 | 53.6 | 19-20.8 | 155- 5.7 | 5.5 | 1.0 | 14 | 102 | 5.2 | 0.16 | 1.3 | 1.2 | 0.24 | B |
| 16 | 6 | 40 | 39.5 | 19-54.5 | 155- 5.5 | 52.2 | 3.3 | 30 | 227 | 23.8 | 0.41 | 1.8 | 3.5 | 0.12 | C |
| 16 | 6 | 58 | 16.0 | 19-20.5 | 155-13.6 | 8.0* | 1.4 | 13 | 76 | 5.3 | 0.08 | 0.7 | | 0.13 | B |
| 16 | 10 | 13 | 35.8 | 19-25.3 | 155-16.8 | 11.5 | 1.3 | 9 | 135 | 0.9 | 0.25 | 0.9 | 1.9 | 0.04 | B |
| 16 | 22 | 57 | 37.8 | 19-23.6 | 155- 5.4 | 38.4 | 2.6 | 32 | 83 | 8.1 | 0.23 | 1.1 | 1.9 | 0.15 | B |
| 16 | 23 | 56 | 56.1 | 19- 1.5 | 155-22.0 | 21.6 | | 15 | 232 | 18.0 | 0.33 | 2.1 | 4.8 | 0.14 | C |
| 17 | 0 | 12 | 49.8 | 19-20.4 | 155- 9.7 | 6.5 | 1.7 | 22 | 75 | 3.1 | 0.07 | 0.6 | 0.6 | 0.17 | B |
| 17 | 5 | 59 | 38.8 | 19-21.4 | 155-10.5 | 5.5 | 1.6 | 23 | 68 | 1.8 | 0.09 | 0.7 | 0.7 | 0.18 | B |
| 17 | 6 | 53 | 25.3 | 19-52.3 | 155- 8.9 | 47.2 | 3.0 | 27 | 213 | 20.5 | 0.32 | 1.4 | 2.9 | 0.12 | C |
| 17 | 10 | 53 | 44.1 | 19-24.8 | 155-17.0 | 9.0 | 0.9 | 14 | 87 | 0.1 | 0.07 | 0.5 | 0.6 | 0.06 | A |
| 17 | 11 | 19 | 48.2 | 19-20.1 | 155- 9.3 | 5.9 | | 21 | 78 | 3.8 | 0.09 | 0.7 | 0.7 | 0.18 | B |
| 17 | 12 | 55 | 18.3 | 19-20.1 | 155-12.2 | 8.0* | | 15 | 92 | 5.5 | 0.05 | 0.5 | | 0.11 | B |
| 17 | 15 | 1 | 25.2 | 19-24.6 | 155-16.5 | 10.7 | 1.4 | 11 | 92 | 1.1 | 0.14 | 0.5 | 1.1 | 0.04 | A |
| 17 | 17 | 22 | 15.0 | 19-25.8 | 155-24.2 | 7.4 | 2.1 | 23 | 65 | 7.0 | 0.06 | 0.5 | 0.4 | 0.14 | B |
| 17 | 19 | 50 | 51.1 | 19-13.5 | 155- 9.7? | 39.9 | | 24 | 224 | 9.3 | 0.26 | 1.5 | 2.0 | 0.12 | C |
| 17 | 23 | 1 | 36.3 | 19-32.0 | 155- 7.9? | 8.0* | | 12 | 150 | 17.5 | 0.26 | 2.9 | | 0.31 | D |
| 18 | 2 | 31 | 50.0 | 19-20.4 | 155-15.1 | 25.8 | 3.6 | 32 | 73 | 3.9 | 0.11 | 0.8 | 1.1 | 0.14 | B |
| 18 | 10 | 5 | 54.4 | 19-24.7 | 155-17.6 | 7.0 | 0.9 | 15 | 64 | 1.2 | 0.09 | 0.7 | 0.7 | 0.15 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | 18 | 13 | 37 42.6 | 19-24.3 | 155-17.6 | 8.5 | 1.2 | 16 | 57 | 1.5 | 0.06 | 0.5 | 0.6 | 0.06 | A |
| | 18 | 14 | 19 59.5 | 19-25.0 | 155-17.4 | 7.8 | 1.1 | 13 | 117 | 0.7 | 0.05 | 0.6 | 0.4 | 0.09 | A |
| | 18 | 16 | 48 43.2 | 19-24.4 | 155-17.3 | 8.1 | 1.0 | 16 | 55 | 1.1 | 0.09 | 0.7 | 0.9 | 0.12 | B |
| | 18 | 21 | 55 50.3 | 19-24.3 | 155-18.0 | 5.5 | 0.7 | 14 | 59 | 1.0 | 0.09 | 0.3 | 0.7 | 0.06 | A |
| | 19 | 2 | 3 56.3 | 19-21.1 | 155-13.8 | 5.0 | | 18 | 100 | 4.4 | 0.12 | 0.7 | 0.9 | 0.17 | B |
| | 19 | 3 | 45 35.3 | 19-54.4 | 155-29.9 | 35.6 | 2.3 | 25 | 147 | 14.6 | 0.21 | 1.0 | 2.4 | 0.13 | B |
| | 19 | 13 | 28 53.0 | 19-17.6 | 155- 3.0 | 32.4 | | 26 | 248 | 4.3 | 0.26 | 1.4 | 1.8 | 0.10 | C |
| | 19 | 18 | 38 40.0 | 19-21.0 | 155-11.2 | 5.8 | 1.7 | 23 | 69 | 3.1 | 0.07 | 0.6 | 0.6 | 0.19 | B |
| | 19 | 19 | 16 0.4 | 19-20.3 | 155-11.9 | 8.0* | | 15 | 81 | 4.9 | 0.09 | 0.8 | | 0.13 | B |
| | 19 | 19 | 49 33.8 | 19-19.3 | 155-13.2 | 6.5 | | 18 | 74 | 4.2 | 0.10 | 0.7 | 0.7 | 0.15 | B |
| | 19 | 21 | 54 8.8 | 19-22.3 | 155-23.6 | 6.7 | 2.2 | 21 | 51 | 4.0 | 0.08 | 0.7 | 0.6 | 0.16 | B |
| | 19 | 23 | 59 22.4 | 19-10.5 | 155-37.0 | 6.8 | 2.5 | 18 | 97 | 8.1 | 0.16 | 1.0 | 1.0 | 0.20 | B |
| | 20 | 1 | 59 47.5 | 18-55.1 | 155- 8.4 | 8.0* | | 18 | 280 | 43.3 | 0.76 | 4.9 | | 0.15 | D |
| | 20 | 2 | 3 22.2 | 19-24.3 | 155-15.8 | 7.2 | 1.2 | 11 | 111 | 1.6 | 0.66 | 1.7 | 3.7 | 0.15 | B |
| | 20 | 3 | 0 49.8 | 19-19.8 | 155-11.6 | 8.0* | | 14 | 89 | 5.3 | 0.06 | 0.6 | | 0.09 | B |
| | 20 | 5 | 3 28.5 | 19-20.3 | 155-16.0 | 28.8 | | 17 | 115 | 2.5 | 0.27 | 1.2 | 2.7 | 0.12 | B |
| | 20 | 7 | 44 57.6 | 19-22.5 | 155-15.6 | 24.3 | | 12 | 131 | 0.5 | 0.28 | 1.2 | 2.8 | 0.10 | B |
| | 20 | 8 | 9 30.0 | 19- 1.2 | 155-19.3 | 14.1* | 2.5 | 29 | 221 | 30.9 | 0.22 | 1.6 | | 0.18 | C |
| | 20 | 9 | 8 5.4 | 19-26.0 | 155-14.7 | 28.5 | 2.2 | 28 | 54 | 1.9 | 0.11 | 0.7 | 1.2 | 0.12 | B |
| | 20 | 9 | 52 27.4 | 19-18.4 | 155-13.3 | 6.0 | | 13 | 83 | 2.6 | 0.12 | 0.8 | 0.9 | 0.14 | B |
| | 20 | 12 | 30 41.5 | 19-25.9 | 155-29.2? | 8.9 | 2.0 | 22 | 118 | 6.9 | 0.18 | 0.9 | 1.1 | 0.20 | B |
| | 20 | 17 | 8 0.5 | 19-23.9 | 155-16.7 | 12.6 | 1.6 | 19 | 47 | 0.2 | 0.04 | 0.5 | 0.3 | 0.07 | A |
| | 20 | 20 | 41 17.6 | 19-21.8 | 155-17.4 | 20.4 | | 14 | 90 | 2.9 | 0.17 | 0.9 | 1.6 | 0.08 | A |
| | 20 | 21 | 4 9.7 | 19-20.0 | 155-11.7 | 5.3 | | 23 | 82 | 4.8 | 0.10 | 0.7 | 0.8 | 0.22 | B |
| | 20 | 21 | 21 31.7 | 19-25.0 | 155-27.6 | 4.5 | 1.7 | 16 | 94 | 11.6 | 0.09 | 0.7 | 1.0 | 0.14 | C |
| | 20 | 22 | 12 24.3 | 19-22.4 | 155-28.4 | 8.3 | 1.8 | 20 | 108 | 1.3 | 0.11 | 1.1 | 1.4 | 0.17 | B |
| | 20 | 22 | 37 19.2 | 19-27.5 | 155-58.0 | 10.9 | 2.8 | 17 | 220 | 23.5 | 0.41 | 2.9 | 4.1 | 0.20 | C |
| | 21 | 0 | 6 49.0 | 19-56.9 | 155-27.4 | 10.1 | 3.0 | 18 | 177 | 13.5 | 0.16 | 1.2 | 1.4 | 0.15 | C |
| | 21 | 1 | 5 3.8 | 19-20.5 | 155- 9.1 | 4.5 | | 12 | 70 | 3.2 | 0.13 | 1.0 | 1.3 | 0.22 | B |
| | 21 | 2 | 46 6.5 | 19-57.0 | 155-26.6 | 11.5 | 2.6 | 11 | 183 | 12.4 | 0.12 | 1.1 | 1.0 | 0.09 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 21 | 6 | 8 | 24.7 | 19-20.5 | 155- 9.2 | 9.2 | 1.9 | 14 | 70 | 3.1 | 0.09 | 0.6 | 1.4 | 0.09 | A |
| 21 | 6 | 18 | 59.3 | 19-20.3 | 155- 9.7 | 7.2 | 2.4 | 25 | 76 | 3.2 | 0.06 | 0.6 | 0.4 | 0.16 | B |
| 21 | 8 | 57 | 33.9 | 19-10.5 | 155-27.1? | 6.3 | | 19 | 151 | 2.3 | 0.09 | 0.8 | 0.6 | 0.13 | C |
| 21 | 9 | 0 | 12.5 | 19-22.4 | 155-23.6? | 7.5 | | 10 | 97 | 4.1 | 0.15 | 0.7 | 2.1 | 0.09 | B |
| 21 | 9 | 0 | 36.9 | 19-22.6 | 155-23.3 | 7.8 | | 11 | 91 | 4.4 | 0.17 | 1.2 | 3.4 | 0.14 | B |
| 21 | 9 | 5 | 54.6 | 19-10.1 | 155-27.6 | 5.8 | | 10 | 154 | 1.2 | 0.10 | 1.0 | 0.7 | 0.10 | C |
| 21 | 9 | 33 | 45.5 | 19-19.7 | 155-21.0 | 0.9 | 1.4 | 11 | 157 | 4.1 | 0.06 | 0.4 | 0.4 | 0.05 | B |
| 21 | 11 | 13 | 22.6 | 19-21.0 | 155- 8.3 | 4.2 | | 14 | 79 | 3.3 | 0.12 | 0.9 | 1.4 | 0.20 | B |
| 21 | 16 | 4 | 40.0 | 19-21.3 | 155-24.1? | 8.4 | 3.3 | 28 | 54 | 2.5 | 0.06 | 0.5 | 0.4 | 0.14 | B |
| 21 | 16 | 13 | 5.8 | 19-22.0 | 155-23.6 | 5.1 | 1.6 | 17 | 84 | 3.3 | 0.11 | 0.7 | 1.0 | 0.20 | B |
| 21 | 16 | 26 | 7.1 | 19-21.9 | 155-23.6 | 6.3 | | 12 | 73 | 3.1 | 0.09 | 0.6 | 0.8 | 0.12 | B |
| 21 | 16 | 30 | 43.8 | 19-20.7 | 155-25.4 | 8.5 | 2.0 | 23 | 83 | 3.8 | 0.06 | 0.6 | 1.0 | 0.15 | B |
| 21 | 17 | 26 | 50.0 | 19-22.0 | 155-23.4 | 6.1 | | 11 | 101 | 3.4 | 0.08 | 0.5 | 0.7 | 0.09 | A |
| 21 | 18 | 56 | 14.3 | 19-20.7 | 155-18.5 | 28.8 | 2.1 | 22 | 55 | 5.1 | 0.14 | 0.9 | 1.5 | 0.13 | B |
| 21 | 19 | 51 | 53.9 | 19-18.3 | 155-15.1? | 7.8 | | 20 | 104 | 3.7 | 0.06 | 0.5 | 0.4 | 0.12 | B |
| 21 | 20 | 25 | 55.2 | 19-20.2 | 155-15.5 | 25.3 | 2.1 | 26 | 78 | 3.3 | 0.11 | 0.7 | 1.1 | 0.13 | B |
| 21 | 22 | 3 | 25.4 | 19-25.8 | 155-15.8 | 1.5 | 1.4 | 12 | 129 | 3.2 | 0.08 | 0.3 | 0.3 | 0.07 | B |
| 22 | 4 | 4 | 55.4 | 19-19.5 | 155-15.6 | 6.3 | 1.6 | 23 | 88 | 3.4 | 0.08 | 0.6 | 0.6 | 0.17 | B |
| 22 | 5 | 19 | 47.6 | 19-55.3 | 155-21.4 | 26.5 | 2.9 | 30 | 188 | 3.8 | 0.16 | 1.0 | 1.9 | 0.12 | C |
| 22 | 10 | 34 | 10.7 | 19-19.2 | 155-13.4 | 5.6 | 1.4 | 20 | 76 | 4.0 | 0.10 | 0.8 | 0.8 | 0.22 | B |
| 22 | 14 | 46 | 39.9 | 19-34.9 | 155- 5.9 | 8.0* | 2.0 | 9 | 136 | 9.4 | 0.09 | 0.9 | | 0.10 | C |
| 22 | 16 | 35 | 20.2 | 19-18.7 | 155-13.6 | 6.8 | 0.4 | 13 | 84 | 3.1 | 0.10 | 0.7 | 0.8 | 0.13 | B |
| 22 | 18 | 56 | 53.3 | 19-19.9 | 155- 8.5 | 7.8 | 1.8 | 18 | 78 | 4.6 | 0.09 | 1.0 | 0.7 | 0.16 | B |
| 22 | 21 | 18 | 43.2 | 19-19.7 | 155-12.4 | 8.0* | | 14 | 83 | 5.3 | 0.06 | 0.5 | | 0.09 | B |
| 22 | 23 | 54 | 15.3 | 19-21.9 | 155-23.7? | 7.9 | 1.6 | 20 | 73 | 3.2 | 0.08 | 0.7 | 0.5 | 0.16 | B |
| 23 | 0 | 6 | 16.6 | 19-23.5 | 155-46.1 | 6.2 | 1.6 | 10 | 216 | 17.5 | 0.25 | 2.3 | 3.6 | 0.13 | C |
| 23 | 1 | 42 | 38.0 | 19-20.8 | 155- 7.5? | 5.2 | 1.8 | 21 | 85 | 4.7 | 0.12 | 0.9 | 0.9 | 0.23 | B |
| 23 | 10 | 30 | 24.5 | 19-20.4 | 155- 8.9 | 4.3 | 1.7 | 18 | 69 | 3.4 | 0.09 | 0.7 | 0.9 | 0.18 | B |
| 23 | 10 | 49 | 42.2 | 19-20.5 | 155- 8.9 | 3.7 | 1.7 | 16 | 70 | 3.4 | 0.09 | 0.7 | 1.0 | 0.17 | B |
| 23 | 19 | 5 | 10.8 | 19-19.7 | 155-16.7 | 30.9 | 2.1 | 26 | 95 | 1.4 | 0.15 | 0.8 | 1.5 | 0.11 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | 23 | 20 | 32 | 10.6 | 19-24.7 | 155-16.6 | 1.3 | -0.0 | 11 | 99 | 0.8 | 0.06 | 0.3 | 0.4 | 0.11 | B |
| | 23 | 20 | 44 | 55.1 | 19-24.7 | 155-16.6 | 1.4 | 0.4 | 10 | 101 | 0.8 | 0.05 | 0.2 | 0.3 | 0.08 | A |
| | 23 | 22 | 34 | 7.1 | 19-16.9 | 155-22.3 | 6.6 | 2.5 | 25 | 126 | 6.3 | 0.08 | 0.7 | 0.6 | 0.21 | C |
| | 23 | 22 | 36 | 52.6 | 19-17.3 | 155-22.2 | 6.0 | 1.7 | 20 | 123 | 5.6 | 0.08 | 0.7 | 0.8 | 0.20 | B |
| | 23 | 22 | 37 | 3.3 | 19-17.1 | 155-22.4 | 8.0* | 1.8 | 18 | 123 | 7.7 | 0.09 | 0.8 | | 0.17 | C |
| | 23 | 22 | 38 | 42.7 | 19-15.4 | 155-22.0 | 8.0* | 0.5 | 10 | 230 | 7.5 | 0.32 | 2.0 | | 0.18 | D |
| | 23 | 22 | 39 | 30.6 | 19-16.9 | 155-22.6 | 3.8 | 1.7 | 26 | 125 | 6.2 | 0.08 | 0.6 | 0.9 | 0.20 | B |
| | 23 | 22 | 41 | 6.6 | 19-17.7 | 155-14.7 | 5.9 | 0.7 | 14 | 153 | 2.5 | 0.14 | 0.8 | 0.9 | 0.18 | C |
| | 24 | 3 | 28 | 2.6 | 19-17.9 | 155-13.4 | 8.0* | 0.4 | 14 | 245 | 8.0 | 0.18 | 1.1 | | 0.09 | D |
| | 24 | 7 | 23 | 10.7 | 19-18.2 | 155-15.7 | 10.7 | | 7 | 210 | 4.6 | 0.10 | 0.5 | 0.9 | 0.03 | B |
| | 24 | 13 | 40 | 54.7 | 19-24.2 | 155-16.0 | 2.6 | 1.0 | 9 | 105 | 1.1 | 0.03 | 0.1 | 0.4 | 0.03 | A |
| | 24 | 16 | 43 | 44.5 | 18-46.3 | 155-24.2 | 14.3* | 3.4 | 30 | 275 | 36.1 | 0.43 | 2.8 | | 0.15 | D |
| | 24 | 17 | 28 | 37.8 | 19-19.8 | 155-16.7 | 22.0 | | 16 | 118 | 1.4 | 0.29 | 1.6 | 3.0 | 0.17 | B |
| | 24 | 18 | 45 | 29.0 | 19-21.5 | 155-17.9 | 21.3 | | 11 | 73 | 2.7 | 0.38 | 1.2 | 3.5 | 0.08 | B |
| | 25 | 3 | 16 | 31.9 | 19-25.8 | 155-16.8 | 2.5 | 0.6 | 8 | 219 | 1.6 | 0.11 | 0.6 | 3.4 | 0.05 | C |
| | 25 | 4 | 49 | 44.9 | 19-23.3 | 155- 5.9 | 0.8 | 1.8 | 17 | 123 | 7.2 | 1.51 | 0.8 | 5.6 | 0.17 | C |
| | 25 | 5 | 28 | 32.1 | 19-18.1 | 155-13.4 | 7.1 | 2.2 | 25 | 140 | 7.9 | 0.09 | 0.6 | 0.5 | 0.15 | C |
| | 25 | 8 | 51 | 14.6 | 19-18.4 | 155-13.4? | 5.3 | 2-9# | 11 | 82 | 2.6 | .1 | 0.4 | . | 0.0 | B |
| | 25 | 18 | 25 | 9.6 | 19-19.5 | 155-13.8 | 6.2 | 1.5 | 27 | 63 | 4.6 | 0.07 | 0.5 | 0.5 | 0.18 | B |
| | 25 | 23 | 14 | 53.5 | 19-20.8 | 155-12.8 | 26.9 | 1.0 | 19 | 94 | 5.7 | 0.22 | 1.0 | 2.2 | 0.12 | B |
| | 26 | 1 | 56 | 39.5 | 19-26.7 | 155-59.2 | 13.1 | 0.9 | 10 | 297 | 8.7 | 0.47 | 4.2 | 1.6 | 0.08 | D |
| | 26 | 3 | 27 | 42.6 | 19-17.6 | 155- 2.2 | 30.9 | 0.9 | 20 | 231 | 4.4 | 0.53 | 2.5 | 4.1 | 0.13 | D |
| | 26 | 5 | 24 | 56.1 | 19-41.5 | 156-23.4 | 4.5 | | 22 | 277 | 54.4 | 0.39 | 3.8 | 5.1 | 0.14 | D |
| | 26 | 7 | 53 | 19.5 | 19-12.9 | 155-30.3 | 7.0 | 4.3 | 27 | 68 | 7.5 | 0.10 | 0.8 | 0.8 | 0.20 | B |
| | 26 | 11 | 29 | 27.6 | 19-21.7 | 155-24.3? | 7.1 | 2.6 | 28 | 68 | 3.3 | 0.07 | 0.7 | 1.2 | 0.19 | B |
| | 26 | 15 | 49 | 57.3 | 19-20.3 | 155- 9.5 | 6.0 | 2.3 | 26 | 75 | 3.4 | 0.09 | 0.7 | 0.6 | 0.21 | B |
| | 26 | 18 | 21 | 9.2 | 19-23.6 | 155-23.0 | 8.0* | | 12 | 100 | 5.7 | 0.05 | 0.5 | | 0.09 | B |
| | 26 | 22 | 43 | 26.1 | 19-20.2 | 155-15.1 | 8.5 | | 17 | 104 | 4.1 | 0.11 | 0.8 | 1.7 | 0.11 | B |
| | 26 | 23 | 19 | 26.5 | 19-20.9 | 155-13.9 | 6.5 | 2.1 | 29 | 106 | 3.6 | 0.09 | 0.7 | 0.5 | 0.21 | B |
| | 27 | 2 | 34 | 11.6 | 19-24.4 | 155-25.6? | 8.3 | 1.9 | 21 | 126 | 5.1 | 0.06 | 0.5 | 0.4 | 0.11 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 27 | 8 | 12 | 1.8 | 19-25.0 | 155-16.6 | 1.8 | 1.7 | 14 | 113 | 0.8 | 0.09 | 0.5 | 0.3 | 0.15 | B |
| 27 | 12 | 51 | 12.9 | 19-21.9 | 155-27.0? | 8.7 | | 21 | 118 | 1.6 | 0.16 | 1.3 | 1.0 | 0.27 | B |
| 27 | 15 | 6 | 29.6 | 19-19.1 | 155-11.7 | 8.0* | | 15 | 140 | 5.0 | 0.08 | 0.7 | | 0.12 | C |
| 27 | 16 | 27 | 18.6 | 19-21.1 | 155- 8.2 | 3.6 | | 22 | 79 | 3.3 | 0.10 | 0.7 | 1.0 | 0.18 | B |
| 27 | 19 | 20 | 44.4 | 19-22.6 | 155- 3.1 | 3.5 | | 21 | 120 | 5.0 | 0.15 | 1.0 | 1.2 | 0.27 | B |
| 27 | 19 | 42 | 2.4 | 19-22.6 | 155- 4.5? | 0.6 | | 21 | 143 | 5.7 | 0.43 | 1.0 | 2.0 | 0.18 | C |
| 27 | 23 | 47 | 51.5 | 19-20.9 | 155-29.4 | 8.3 | | 21 | 107 | 4.3 | 0.09 | 0.9 | 1.4 | 0.16 | B |
| 28 | 1 | 13 | 56.5 | 19-24.3 | 155-16.7? | 1.3 | 1.5 | 12 | 77 | 0.8 | 0.12 | 0.6 | 1.0 | 0.20 | B |
| 28 | 10 | 20 | 34.1 | 19-24.1 | 155-15.9 | 2.3 | | 10 | 110 | 1.3 | 0.05 | 0.3 | 0.8 | 0.06 | A |
| 28 | 21 | 6 | 4.6 | 19-24.8 | 155-17.4 | 9.2 | 0.8 | 18 | 89 | 0.6 | 0.06 | 0.5 | 0.6 | 0.09 | A |
| 29 | 3 | 31 | 44.1 | 19-25.2 | 155- 0.4? | 8.0* | 1.6 | 7 | 143 | 10.6 | 0.27 | 2.5 | | 0.27 | C |
| 29 | 6 | 44 | 49.0 | 19-19.7 | 155-24.6? | 8.2 | 1.3 | 18 | 90 | 2.5 | 0.08 | 0.7 | 0.6 | 0.17 | B |
| 29 | 11 | 48 | 26.3 | 19-24.3 | 155-16.4 | 2.3 | | 6 | 103 | 0.9 | 0.05 | 0.6 | 0.4 | 0.04 | B |
| 29 | 12 | 10 | 37.3 | 19-24.2 | 155-15.9 | 2.0 | 0.7 | 9 | 108 | 1.3 | 0.05 | 0.3 | 0.2 | 0.05 | A |
| 29 | 14 | 44 | 51.7 | 19-10.0 | 155-30.9 | 6.5 | 2.2 | 18 | 118 | 5.5 | 0.12 | 0.9 | 0.8 | 0.17 | B |
| 29 | 19 | 11 | 58.7 | 19-24.1 | 155-16.0 | 2.5 | 0.7 | 8 | 106 | 1.2 | 0.03 | 0.2 | 0.9 | 0.04 | A |
| 30 | 1 | 31 | 38.0 | 19-25.4 | 155-16.9 | 2.3 | 0.4 | 8 | 174 | 0.9 | 0.08 | 0.6 | 0.3 | 0.08 | B |
| 30 | 6 | 44 | 9.6 | 19-24.3 | 155-23.1 | 6.3 | 1.7 | 19 | 111 | 6.0 | 0.09 | 0.7 | 0.6 | 0.15 | B |
| 30 | 18 | 17 | 42.7 | 19-20.1 | 155- 7.6 | 8.0* | 0.7 | 13 | 93 | 5.2 | 0.10 | 0.9 | | 0.20 | B |
| 30 | 18 | 58 | 48.5 | 19-24.9 | 155-16.3 | 9.4 | 0.7 | 11 | 101 | 1.2 | 0.11 | 0.5 | 0.8 | 0.05 | A |
| 30 | 19 | 6 | 23.4 | 19-24.2 | 155-15.9 | 2.4 | 0.3 | 7 | 109 | 1.4 | 0.11 | 0.5 | 1.7 | 0.06 | B |
| 30 | 19 | 36 | 44.6 | 19-23.5 | 155-25.0 | 8.0* | 1.1 | 19 | 125 | 4.9 | 0.06 | 0.6 | | 0.12 | C |
| 30 | 22 | 23 | 2.6 | 19-18.8 | 155-13.2 | 6.7 | | 16 | 82 | 3.2 | 0.11 | 0.7 | 1.9 | 0.11 | B |
| 30 | 23 | 5 | 8.4 | 19-23.5 | 155- 2.3 | 0.3* | 2.0 | 17 | 132 | 6.7 | 0.15 | 1.0 | | 0.26 | C |
| 31 | 2 | 18 | 50.4 | 20-14.9 | 155-59.2 | 47.7* | 2.0 | 9 | 333 | 25.4 | 0.39 | 3.8 | | 0.09 | D |
| 31 | 4 | 35 | 6.3 | 19-16.5 | 155-23.4 | 5.7 | 1.0 | 17 | 124 | 5.7 | 0.09 | 0.8 | 0.9 | 0.18 | B |
| 31 | 6 | 40 | 52.1 | 19-25.4 | 155-24.1 | 8.0* | 1.2 | 18 | 122 | 7.2 | 0.05 | 0.4 | | 0.10 | C |
| 31 | 16 | 53 | 20.1 | 19-24.7 | 155-16.9 | 8.1 | 1.2 | 13 | 71 | 0.4 | 0.07 | 0.7 | 0.7 | 0.09 | A |
| 31 | 17 | 35 | 26.4 | 19-24.8 | 155-17.1 | 8.0 | 0.8 | 13 | 75 | 0.4 | 0.06 | 0.6 | 0.4 | 0.10 | B |
| 31 | 18 | 15 | 31.6 | 19-24.6 | 155-17.3 | 8.1 | 0.9 | 12 | 68 | 0.8 | 0.07 | 0.7 | 0.5 | 0.11 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 31 | 19 | 39 | 41.0 | 19-19.9 | 155-10.2 | 9.4 | 0.7 | 15 | 86 | 4.0 | 0.07 | 0.4 | 1.1 | 0.07 | A |
| 31 | 20 | 33 | 31.9 | 19-24.6 | 155-17.1 | 9.4 | 0.9 | 12 | 67 | 0.6 | 0.10 | 0.6 | 0.9 | 0.07 | A |
| 31 | 21 | 10 | 7.2 | 19-24.6 | 155-17.6 | 7.3 | 1.4 | 10 | 72 | 1.2 | 0.18 | 0.4 | 1.1 | 0.05 | A |
| 31 | 22 | 3 | 44.5 | 19-24.8 | 155-17.2 | 7.5 | 1.1 | 10 | 88 | 0.5 | 0.09 | 0.7 | 0.6 | 0.06 | A |
| 31 | 22 | 22 | 1.6 | 19-24.8 | 155-16.7 | 8.9 | 0.3 | 12 | 106 | 0.6 | 0.14 | 0.7 | 1.2 | 0.07 | A |
| 31 | 23 | 27 | 0.4 | 19-24.8 | 155-17.4 | 7.4 | 1.0 | 12 | 82 | 0.8 | 0.09 | 0.8 | 0.6 | 0.11 | B |
| NOV 1 | 0 | 5 | 4.4 | 19-19.8 | 155-16.7 | 30.5 | 1.7 | 24 | 92 | 1.3 | 0.18 | 1.0 | 1.8 | 0.13 | B |
| 1 | 1 | 44 | 56.5 | 19-23.2 | 155-26.6 | 8.4 | 1.7 | 23 | 102 | 2.2 | 0.06 | 0.6 | 1.0 | 0.14 | B |
| 1 | 3 | 22 | 35.2 | 19-25.0 | 155-17.0 | 7.6 | 0.8 | 11 | 121 | 0.2 | 0.09 | 0.8 | 0.6 | 0.10 | B |
| 1 | 4 | 33 | 14.9 | 19-24.8 | 155-17.2 | 7.3 | 1.1 | 9 | 99 | 0.4 | 0.03 | 0.3 | 0.2 | 0.02 | A |
| 1 | 5 | 16 | 16.0 | 19-25.0 | 155-17.1 | 8.5 | 0.8 | 11 | 122 | 0.3 | 0.14 | 0.8 | 1.3 | 0.08 | B |
| 1 | 5 | 40 | 1.7 | 19-24.9 | 155-16.9 | 9.0 | 0.7 | 11 | 117 | 0.1 | 0.14 | 0.7 | 1.2 | 0.06 | A |
| 1 | 6 | 5 | 2.7 | 19-24.9 | 155-16.1 | 13.2 | 1.1 | 16 | 84 | 1.3 | 0.05 | 0.7 | 0.4 | 0.10 | B |
| 1 | 6 | 10 | 36.7 | 19-25.9 | 155-16.5 | 3.1 | 0.6 | 8 | 239 | 1.6 | 0.27 | 1.0 | 1.5 | 0.06 | C |
| 1 | 6 | 14 | 48.1 | 19-25.0 | 155-16.8 | 8.6 | 1.2 | 11 | 117 | 0.3 | 0.09 | 0.5 | 0.7 | 0.04 | A |
| 1 | 7 | 54 | 36.4 | 19-24.7 | 155-17.5 | 7.5 | 1.1 | 12 | 77 | 0.9 | 0.06 | 0.5 | 0.4 | 0.06 | A |
| 1 | 10 | 48 | 4.9 | 19-24.1 | 155-16.8 | 9.4 | 1.6 | 12 | 72 | 0.5 | 0.09 | 0.6 | 0.8 | 0.07 | A |
| 1 | 12 | 3 | 0.8 | 19-24.0 | 155-15.4 | 3.5 | 0.9 | 10 | 87 | 2.1 | 0.09 | 0.3 | 0.8 | 0.05 | A |
| 1 | 14 | 51 | 32.8 | 19-25.6 | 155-25.0? | 8.0 | 2.3 | 20 | 104 | 7.3 | 0.06 | 0.5 | 0.4 | 0.12 | B |
| 1 | 17 | 14 | 59.9 | 19-23.5 | 155-29.2 | 8.5 | 1.9 | 16 | 111 | 3.4 | 0.11 | 1.0 | 1.7 | 0.16 | B |
| 1 | 17 | 55 | 14.8 | 19-18.6 | 155-13.3 | 6.9 |  | 13 | 82 | 3.0 | 0.14 | 0.9 | 2.2 | 0.11 | B |
| 1 | 19 | 19 | 23.7 | 19-24.1 | 155-15.9 | 1.8 | 0.7 | 7 | 113 | 2.3 | 0.07 | 0.4 | 0.4 | 0.07 | B |
| 1 | 20 | 19 | 49.9 | 19-26.9 | 155-53.1 | 8.2 |  | 11 | 147 | 5.6 | 0.14 | 1.8 | 2.6 | 0.14 | B |
| 1 | 21 | 16 | 51.9 | 19-25.1 | 155-18.0 | 6.3 | 1.0 | 12 | 96 | 0.8 | 0.21 | 0.9 | 1.6 | 0.14 | B |
| 1 | 21 | 41 | 32.8 | 19-17.2 | 155-11.4 | 29.3 | 1.0 | 18 | 236 | 3.6 | 0.32 | 1.4 | 2.4 | 0.07 | C |
| 1 | 22 | 50 | 25.0 | 19-22.0 | 155-16.2 | 27.7 |  | 19 | 58 | 1.0 | 0.18 | 0.9 | 1.7 | 0.11 | B |
| 2 | 2 | 57 | 36.4 | 19-23.8 | 155-15.4 | 1.6 | 0.4 | 8 | 148 | 2.6 | 0.06 | 0.3 | 0.3 | 0.06 | B |
| 2 | 3 | 17 | 38.2 | 19-23.2 | 155-25.0? | 7.7 | 1.9 | 21 | 73 | 4.8 | 0.07 | 0.6 | 1.5 | 0.15 | B |
| 2 | 4 | 29 | 37.6 | 19-25.1 | 155-16.6 | 9.4 | 1.0 | 13 | 123 | 0.8 | 0.11 | 0.7 | 0.9 | 0.09 | B |
| 2 | 5 | 8 | 53.6 | 19-24.6 | 155-16.9 | 8.6 | 1.5 | 10 | 107 | 0.7 | 0.20 | 1.1 | 1.6 | 0.09 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV 2 | 6 | 13 | 51.5 | 19-22.1 | 155-11.4 | 5.6 | 1.8 | 19 | 72 | 2.3 | 0.07 | 0.5 | 0.7 | 0.14 | B |
| 2 | 19 | 18 | 58.7 | 19-22.7 | 155-22.3 | 5.5 | 1.4 | 11 | 80 | 4.9 | 0.06 | 0.4 | 0.6 | 0.09 | A |
| 3 | 0 | 8 | 14.0 | 19-21.1 | 155- 7.7 | 4.4 | 0.4 | 14 | 82 | 4.2 | 0.12 | 1.0 | 1.5 | 0.22 | B |
| 3 | 1 | 55 | 21.6 | 19-20.0 | 155-12.1 | 9.1 | 0.8 | 18 | 128 | 4.7 | 0.10 | 0.6 | 1.4 | 0.09 | B |
| 3 | 2 | 44 | 36.3 | 18-53.4 | 155- 9.9 | 8.0* | 2.6 | 28 | 257 | 43.3 | 0.50 | 3.3 | | 0.22 | D |
| 3 | 4 | 41 | 58.5 | 19-24.5 | 155-23.5? | 8.5 | 1.5 | 23 | 58 | 6.8 | 0.06 | 0.5 | 0.4 | 0.15 | B |
| 3 | 6 | 33 | 39.7 | 19-20.1 | 155-11.6 | 7.5 | 0.6 | 17 | 87 | 4.7 | 0.09 | 0.7 | 0.5 | 0.14 | B |
| 3 | 11 | 12 | 41.7 | 19-23.3 | 155-26.0? | 8.2 | 4.0 | 28 | 55 | 3.2 | 0.04 | 0.4 | 0.3 | 0.11 | B |
| 3 | 12 | 49 | 48.2 | 19-23.0 | 155- 5.7 | 3.9 | 2.4 | 21 | 125 | 7.4 | 0.13 | 0.9 | 1.1 | 0.20 | C |
| 3 | 14 | 1 | 59.0 | 19-20.9 | 155- 7.7 | 4.2 | 2.1 | 21 | 81 | 4.3 | 0.11 | 0.8 | 0.9 | 0.22 | B |
| 3 | 16 | 5 | 28.7 | 19-20.6 | 155- 7.3 | 8.0* | | 11 | 91 | 5.2 | 0.12 | 1.1 | | 0.20 | B |
| 4 | 7 | 22 | 20.5 | 19-23.1 | 155-14.6 | 25.0 | 1.8 | 17 | 85 | 2.6 | 0.18 | 0.9 | 1.7 | 0.10 | B |
| 4 | 23 | 36 | 25.1 | 19-20.9 | 155-15.6 | 28.2 | 2.1 | 27 | 108 | 2.8 | 0.11 | 0.7 | 1.1 | 0.12 | B |
| 5 | 1 | 52 | 5.2 | 19-19.6 | 155-12.0 | 5.7 | 1.6 | 20 | 135 | 6.0 | 0.13 | 0.9 | 0.8 | 0.22 | C |
| 5 | 2 | 3 | 2.2 | 19-19.4 | 155-15.7 | 8.5 | 1.4 | 13 | 179 | 3.2 | 0.15 | 1.0 | 1.7 | 0.12 | C |
| 5 | 2 | 48 | 18.3 | 19-23.2 | 155-24.0 | 6.3 | 2.1 | 20 | 68 | 5.7 | 0.08 | 0.7 | 0.7 | 0.18 | B |
| 5 | 4 | 41 | 11.3 | 19-26.1 | 155-27.1? | 6.8 | 2.1 | 23 | 114 | 6.8 | 0.10 | 0.7 | 0.7 | 0.20 | B |
| 5 | 14 | 59 | 50.1 | 19-29.9 | 155-27.3 | 8.0* | 2.8 | 20 | 93 | 7.0 | 0.06 | 0.6 | | 0.11 | B |
| 5 | 18 | 41 | 1.0 | 19-19.6 | 155-11.1 | 7.5 | 1.8 | 17 | 94 | 5.0 | 0.09 | 0.7 | 0.5 | 0.15 | B |
| 5 | 22 | 5 | 57.6 | 19-16.5 | 155-23.4 | 4.4 | 2.5 | 27 | 124 | 5.8 | 0.08 | 0.6 | 0.8 | 0.21 | C |
| 6 | 1 | 4 | 24.5 | 19-20.8 | 155- 8.6? | 7.8 | 1.8 | 20 | 109 | 3.2 | 0.10 | 0.9 | 0.7 | 0.15 | B |
| 6 | 1 | 19 | 42.8 | 19-20.6 | 155- 9.4 | 4.7 | 1.7 | 21 | 70 | 2.8 | 0.08 | 0.6 | 0.7 | 0.19 | B |
| 6 | 8 | 7 | 7.7 | 19-20.2 | 155-14.3 | 8.0* | 1.5 | 8 | 127 | 7.5 | 0.15 | 1.6 | | 0.21 | C |
| 6 | 14 | 16 | 35.6 | 19-21.8 | 155-25.5? | 7.3 | | 14 | 118 | 3.9 | 0.10 | 0.9 | 0.7 | 0.18 | B |
| 6 | 20 | 22 | 34.5 | 19-22.3 | 155-23.4 | 5.6 | 1.6 | 15 | 79 | 6.9 | 0.08 | 0.6 | 0.8 | 0.17 | B |
| 7 | 11 | 9 | 18.8 | 19-18.9 | 155-16.7 | 27.7 | 2.8 | 31 | 107 | 2.6 | 0.12 | 0.7 | 1.2 | 0.13 | B |
| 7 | 12 | 16 | 47.3 | 19-22.8 | 155-24.7? | 2.2 | | 11 | 111 | 5.2 | 0.10 | 0.7 | 1.2 | 0.13 | B |
| 7 | 13 | 20 | 14.0 | 19- 9.2 | 155-41.7 | 3.2 | | 13 | 133 | 13.2 | 0.20 | 1.4 | 1.5 | 0.19 | C |
| 7 | 13 | 47 | 9.9 | 19-24.1 | 155- 0.8 | 4.9 | | 20 | 150 | 8.7 | 0.16 | 1.2 | 1.2 | 0.22 | C |
| 7 | 15 | 24 | 46.2 | 19-22.4 | 155-25.1 | 8.1 | 1.8 | 17 | 70 | 4.5 | 0.04 | 0.5 | 0.3 | 0.09 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV 7 | 20 | 0 | 31.4 | 19-24.1 | 155-15.9 | 2.3 | | 6 | 109 | 1.2 | 0.07 | 0.4 | 1.6 | 0.04 | B |
| 7 | 22 | 21 | 48.6 | 19-25.1 | 155-44.8 | 6.6 | | 8 | 149 | 19.6 | 0.35 | 1.8 | 2.4 | 0.13 | C |
| 8 | 8 | 27 | 43.9 | 19-17.5 | 155- 9.5 | 38.4 | | 20 | 214 | 7.0 | 0.22 | 1.3 | 1.7 | 0.10 | C |
| 8 | 9 | 18 | 19.1 | 20-15.9 | 155-52.0? | 73.3* | 3.1 | 13 | 307 | 68.8 | 0.44 | 3.6 | | 0.12 | D |
| 9 | 0 | 7 | 23.3 | 19-18.7 | 155-15.3 | 11.5 | 1.1 | 13 | 124 | 4.4 | 0.11 | 0.4 | 1.0 | 0.05 | B |
| 9 | 1 | 30 | 48.3 | 19-24.0 | 155-24.6 | 7.3 | 2.2 | 28 | 57 | 6.0 | 0.06 | 0.6 | 0.5 | 0.18 | B |
| 9 | 1 | 41 | 18.0 | 19-20.3 | 155-10.7 | 3.9 | | 16 | 106 | 3.6 | 0.12 | 0.8 | 1.2 | 0.20 | B |
| 9 | 2 | 8 | 25.5 | 19-25.4 | 155-16.1 | 1.6 | 2.8 | 24 | 97 | 0.7 | 0.05 | 0.3 | 0.2 | 0.10 | B |
| 9 | 2 | 58 | 32.8 | 19-30.1 | 155-46.6 | 5.8 | 1.6 | 11 | 108 | 14.9 | 0.07 | 0.7 | 0.8 | 0.10 | C |
| 9 | 4 | 40 | 10.9 | 19-25.1 | 155-16.7 | 2.2 | 0.7 | 10 | 124 | 0.7 | 0.04 | 0.4 | 0.2 | 0.07 | B |
| 9 | 6 | 22 | 53.7 | 19-22.7 | 155-24.8 | 8.0* | 2.2 | 20 | 69 | 5.0 | 0.04 | 0.4 | | 0.10 | B |
| 9 | 6 | 34 | 56.8 | 19-22.7 | 155-24.8 | 7.7 | 1.9 | 21 | 85 | 5.0 | 0.04 | 0.4 | 0.3 | 0.10 | B |
| 9 | 7 | 10 | 39.8 | 19-18.4 | 155-13.4 | 5.8 | | 10 | 83 | 2.6 | 0.20 | 1.1 | 1.8 | 0.17 | B |
| 9 | 7 | 26 | 31.4 | 19-21.6 | 155-24.3? | 8.1 | 1.5 | 14 | 95 | 3.2 | 0.08 | 0.8 | 0.5 | 0.14 | B |
| 9 | 7 | 56 | 40.7 | 19-22.7 | 155-24.9? | 8.9 | | 11 | 117 | 4.7 | 0.33 | 0.8 | 3.1 | 0.10 | B |
| 9 | 14 | 24 | 45.1 | 19-22.8 | 155-24.6? | 8.0 | | 16 | 81 | 5.3 | 0.08 | 0.8 | 1.6 | 0.16 | B |
| 9 | 21 | 44 | 14.7 | 19-25.6 | 155-38.0 | 8.0* | | 12 | 170 | 19.1 | 0.20 | 3.1 | | 0.25 | D |
| 10 | 0 | 57 | 11.4 | 19-22.9 | 155- 5.3 | 3.4 | | 12 | 131 | 7.0 | 0.10 | 0.7 | 1.0 | 0.12 | B |
| 10 | 2 | 27 | 46.4 | 19-20.5 | 155-11.7 | 8.2 | | 17 | 83 | 4.4 | 0.05 | 0.4 | 0.3 | 0.08 | A |
| 10 | 3 | 43 | 6.2 | 19-16.6 | 155-23.9 | 4.0 | | 15 | 133 | 6.6 | 0.12 | 0.9 | 1.4 | 0.16 | B |
| 10 | 7 | 20 | 28.6 | 20- 5.8 | 155-28.6? | 0.0 | | 16 | 217 | 26.9 | 7.03 | 2.7 | 13.2 | 0.25 | C |
| 10 | 9 | 43 | 14.3 | 19-24.4 | 155-15.7 | 23.0 | 1.9 | 22 | 54 | 1.8 | 0.11 | 0.6 | 1.1 | 0.09 | A |
| 10 | 11 | 31 | 52.7 | 19-24.1 | 155-17.0 | 9.3 | 1.6 | 17 | 48 | 0.8 | 0.08 | 0.6 | 0.7 | 0.12 | B |
| 10 | 13 | 55 | 22.9 | 19-18.8 | 155-15.9 | 5.8 | 1.5 | 24 | 103 | 3.5 | 0.08 | 0.6 | 0.6 | 0.18 | B |
| 10 | 14 | 36 | 13.8 | 19-21.2 | 155-23.9 | 6.2 | 1.6 | 18 | 59 | 2.1 | 0.08 | 0.7 | 0.8 | 0.19 | B |
| 10 | 17 | 22 | 12.7 | 19-21.8 | 155-13.2 | 7.0 | | 8 | 161 | 1.5 | 0.39 | 1.0 | 2.7 | 0.08 | C |
| 10 | 17 | 23 | 54.8 | 19-22.2 | 155-13.3 | 4.6 | 1.3 | 16 | 93 | 1.2 | 0.10 | 0.4 | 1.1 | 0.10 | B |
| 10 | 17 | 24 | 43.2 | 19-22.4 | 155-13.1 | 7.0 | | 6 | 145 | 0.7 | 0.71 | 1.7 | 4.8 | 0.09 | B |
| 10 | 17 | 26 | 24.0 | 19-22.0 | 155-13.3 | 3.1 | 1.3 | 13 | 93 | 1.4 | 0.13 | 0.6 | 2.0 | 0.12 | B |
| 10 | 17 | 33 | 48.9 | 19-22.4 | 155-12.9 | 5.2 | 1.7 | 17 | 89 | 0.4 | 0.07 | 0.5 | 0.8 | 0.10 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | 10 | 17 | 48 24.3 | 19-22.5 | 155-12.9 | 3.5 | 1.8 | 17 | 89 | 0.4 | 0.10 | 0.6 | 1.6 | 0.16 | B |
| | 10 | 17 | 55 28.3 | 19-22.4 | 155-12.7 | 2.7 | 1.3 | 16 | 79 | 0.2 | 0.06 | 0.4 | 1.2 | 0.12 | B |
| | 10 | 17 | 56 29.4 | 19-22.5 | 155-12.9 | 5.0 | 1.7 | 17 | 80 | 0.5 | 0.06 | 0.5 | 0.7 | 0.11 | B |
| | 10 | 18 | 9 11.0 | 19-22.7 | 155-13.9 | 5.5 | 1.3 | 11 | 112 | 2.2 | 0.24 | 0.7 | 2.0 | 0.10 | B |
| | 10 | 18 | 10 2.9 | 19-25.5 | 155-10.8? | 8.0* | | 8 | 255 | 6.3 | 1.09 | 6.4 | | 0.31 | D |
| | 10 | 18 | 13 12.8 | 19-22.7 | 155-13.9 | 5.8 | 1.3 | 13 | 112 | 2.2 | 0.20 | 0.6 | 1.6 | 0.08 | B |
| | 10 | 18 | 15 54.7 | 19-22.3 | 155-12.8 | 2.3 | | 6 | 179 | 0.5 | 0.05 | 0.4 | 0.5 | 0.02 | B |
| | 10 | 18 | 17 49.0 | 19-22.7 | 155-12.7 | 1.7 | 1.3 | 11 | 141 | 0.5 | 0.09 | 0.6 | 0.3 | 0.08 | B |
| | 10 | 18 | 19 55.1 | 19-22.5 | 155-13.7 | 3.7 | | 9 | 110 | 1.8 | 0.08 | 0.3 | 0.9 | 0.04 | A |
| | 10 | 18 | 31 0.2 | 19-21.3 | 155-12.8 | 8.4 | | 7 | 217 | 2.2 | 0.37 | 2.0 | 2.8 | 0.08 | C |
| | 10 | 18 | 31 20.6 | 19-22.4 | 155-13.9 | 5.1 | 1.3 | 15 | 101 | 2.1 | 0.20 | 0.6 | 1.8 | 0.12 | B |
| | 10 | 18 | 38 37.7 | 19-22.3 | 155-13.3 | 2.2 | | 6 | 180 | 1.1 | 0.06 | 0.5 | 0.2 | 0.03 | B |
| | 10 | 18 | 42 19.6 | 19-22.3 | 155-13.5 | 3.3 | | 7 | 145 | 1.6 | 0.04 | 0.2 | 0.5 | 0.02 | B |
| | 10 | 19 | 2 18.4 | 19-22.2 | 155-13.2 | 4.1 | 1.8 | 23 | 53 | 1.0 | 0.06 | 0.5 | 0.7 | 0.16 | B |
| | 10 | 19 | 5 15.7 | 19-22.1 | 155-12.9 | 2.3 | 1.6 | 22 | 56 | 0.8 | 0.11 | 0.5 | 0.4 | 0.16 | B |
| | 10 | 19 | 29 26.2 | 19-22.4 | 155-12.9 | 2.1 | 1.1 | 15 | 89 | 0.4 | 0.09 | 0.5 | 0.4 | 0.10 | B |
| | 10 | 19 | 37 11.1 | 19-22.5 | 155-13.0 | 4.6 | 1.0 | 16 | 77 | 0.6 | 0.09 | 0.4 | 1.1 | 0.10 | B |
| | 10 | 19 | 44 50.1 | 19-22.2 | 155-13.5 | 2.2 | | 6 | 147 | 4.3 | 0.01 | 0.1 | 0.1 | 0.01 | B |
| | 10 | 19 | 59 29.3 | 19-13.5 | 155-19.9 | 27.2 | 2.2 | 27 | 161 | 8.4 | 0.14 | 0.7 | 1.4 | 0.12 | C |
| | 10 | 20 | 10 13.8 | 19-21.9 | 155-13.1 | 3.1 | | 6 | 193 | 1.2 | 0.06 | 0.4 | 0.6 | 0.02 | B |
| | 10 | 20 | 29 4.9 | 19-22.3 | 155-13.4 | 4.1 | | 6 | 144 | 1.4 | 0.03 | 0.1 | 0.3 | 0.01 | B |
| | 10 | 20 | 32 4.2 | 19-22.0 | 155-13.3 | 2.3 | | 7 | 142 | 1.3 | 0.06 | 0.4 | 2.7 | 0.04 | B |
| | 10 | 20 | 34 32.5 | 19-22.4 | 155-13.0 | 6.2 | 0.5 | 10 | 133 | 0.6 | 0.06 | 0.4 | 0.5 | 0.06 | B |
| | 10 | 20 | 35 9.3 | 19-22.3 | 155-13.4 | 2.9 | | 9 | 135 | 1.3 | 0.03 | 0.1 | 0.4 | 0.02 | B |
| | 10 | 20 | 41 40.2 | 19-20.6 | 155- 9.0 | 3.6 | 1.7 | 18 | 70 | 3.1 | 0.11 | 0.8 | 1.1 | 0.18 | B |
| | 10 | 20 | 49 4.6 | 19-22.6 | 155-13.3 | 1.3 | | 8 | 133 | 1.2 | 0.04 | 0.2 | 0.2 | 0.04 | B |
| | 10 | 21 | 11 37.6 | 19-22.4 | 155-13.8 | 1.3 | 1.7 | 15 | 99 | 2.0 | 0.09 | 0.4 | 0.4 | 0.10 | B |
| | 10 | 21 | 19 3.6 | 19-22.6 | 155-14.2 | 1.9 | | 9 | 98 | 2.6 | 0.07 | 0.4 | 0.3 | 0.08 | A |
| | 10 | 21 | 27 53.2 | 19-22.3 | 155-13.4 | 4.9 | 0.9 | 13 | 88 | 1.3 | 0.13 | 0.5 | 1.3 | 0.10 | B |
| | 10 | 21 | 30 30.4 | 19-22.4 | 155-12.9 | 2.9 | 2.4 | 23 | 79 | 0.5 | 0.06 | 0.5 | 0.8 | 0.14 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV 10 | 22 | 2 | 38.3 | 19-22.7 | 155-13.0 | 5.5 | 1.6 | 18 | 81 | 4.4 | 0.09 | 0.5 | 0.9 | 0.13 | B |
| 10 | 23 | 38 | 58.0 | 20-20.2 | 155-26.7 | 10.7 | 4.1 | 28 | 208 | 82.6 | 0.41 | 2.0 | 4.1 | 0.24 | D |
| 11 | 4 | 16 | 12.0 | 19-10.4 | 155-40.1? | 0.0 | 2.9 | 18 | 117 | 9.8 | 6.27 | 1.2 | 11.8 | 0.28 | C |
| 11 | 5 | 9 | 28.4 | 19-22.0 | 155-12.8 | 8.0* | 1.4 | 9 | 157 | 5.2 | 0.16 | 1.6 | | 0.20 | C |
| 11 | 5 | 19 | 34.9 | 19-22.4 | 155-12.9 | 8.0* | 1.4 | 11 | 90 | 5.0 | 0.13 | 1.2 | | 0.26 | B |
| 11 | 5 | 36 | 6.9 | 19-22.7 | 155-12.4 | 4.4 | 1.4 | 12 | 89 | 4.7 | 0.17 | 0.5 | 1.8 | 0.10 | B |
| 11 | 5 | 38 | 0.1 | 19-22.2 | 155-12.9? | 0.0 | 1.6 | 10 | 139 | 5.2 | 1.03 | 0.5 | 2.1 | 0.10 | B |
| 11 | 5 | 59 | 19.3 | 19-23.0 | 155-12.2 | 0.9 | 1.3 | 12 | 98 | 4.6 | 0.32 | 1.2 | 1.5 | 0.28 | B |
| 11 | 6 | 5 | 37.7 | 19-22.3 | 155-12.5 | 2.3* | 1.4 | 7 | 140 | 4.7 | 0.13 | 1.0 | | 0.13 | C |
| 11 | 6 | 17 | 1.9 | 19-22.5 | 155-12.7 | 1.3* | | 6 | 135 | 5.0 | 0.08 | 0.6 | | 0.08 | C |
| 11 | 6 | 21 | 14.0 | 19-22.3 | 155-12.8 | 8.0* | 0.7 | 8 | 93 | 5.2 | 0.16 | 1.6 | | 0.25 | B |
| 11 | 7 | 5 | 15.1 | 19-22.8 | 155-12.9 | 2.7 | 1.1 | 15 | 85 | 4.3 | 0.19 | 0.7 | 9.8 | 0.17 | B |
| 11 | 7 | 12 | 27.5 | 19-22.1 | 155-13.0 | 8.0* | 1.0 | 9 | 109 | 5.2 | 0.06 | 0.7 | | 0.10 | B |
| 11 | 7 | 22 | 36.7 | 19-22.0 | 155-12.7 | 8.0* | 0.7 | 10 | 76 | 5.0 | 0.06 | 0.6 | | 0.11 | B |
| 11 | 8 | 8 | 34.5 | 19-22.6 | 155-13.0 | 8.0* | 1.2 | 10 | 118 | 5.6 | 0.12 | 1.2 | | 0.21 | B |
| 11 | 13 | 25 | 55.6 | 19-22.0 | 155- 2.6 | 6.2 | 2.0 | 13 | 137 | 4.0 | 0.18 | 1.9 | 1.6 | 0.24 | C |
| 12 | 20 | 15 | 10.8 | 19-20.2 | 155-10.8 | 5.4 | 1.6 | 17 | 82 | 3.8 | 0.11 | 0.9 | 1.0 | 0.22 | B |
| 13 | 11 | 10 | 41.3 | 19-23.5 | 155-25.9 | 8.3 | 2.6 | 28 | 55 | 3.6 | 0.07 | 0.5 | 0.5 | 0.15 | B |
| 13 | 14 | 0 | 29.6 | 19-20.5 | 155- 7.8 | 5.6 | 1.8 | 19 | 85 | 4.6 | 0.11 | 0.8 | 0.9 | 0.21 | B |
| 13 | 21 | 33 | 0.2 | 19-19.4 | 155-14.2 | 6.8 | 1.6 | 20 | 68 | 4.6 | 0.07 | 0.5 | 0.5 | 0.13 | B |
| 14 | 14 | 39 | 22.0 | 19-26.9 | 155- 2.7 | 45.3 | | 24 | 104 | 6.5 | 0.31 | 1.3 | 2.6 | 0.13 | B |
| 14 | 17 | 51 | 55.3 | 19-17.9 | 155-13.3? | 8.3 | 0.5 | 12 | 95 | 1.6 | 0.11 | 0.9 | 0.7 | 0.15 | B |
| 14 | 21 | 55 | 30.3 | 19-19.4 | 155-15.4 | 6.8 | 0.5 | 20 | 104 | 3.8 | 0.09 | 0.6 | 0.6 | 0.14 | B |
| 14 | 21 | 57 | 23.9 | 19-20.4 | 155- 9.1 | 9.8 | 0.4 | 15 | 70 | 3.4 | 0.08 | 0.5 | 1.0 | 0.08 | A |
| 15 | 0 | 29 | 27.2 | 19-54.6 | 155- 8.0 | 41.0 | 3.0 | 31 | 222 | 22.1 | 0.30 | 1.7 | 3.0 | 0.16 | C |
| 15 | 14 | 40 | 8.6 | 19-58.6 | 155-45.9? | 0.0 | 1.2 | 18 | 167 | 16.8 | 0.48 | 1.6 | 0.8 | 0.21 | C |
| 15 | 16 | 43 | 30.9 | 19-15.0 | 155-13.2 | 8.0* | | 8 | 225 | 14.3 | 0.32 | 2.1 | | 0.15 | C |
| 16 | 1 | 59 | 20.6 | 19-22.1 | 155-12.3 | 4.0 | 0.8 | 12 | 81 | 1.7 | 0.10 | 0.5 | 1.3 | 0.11 | B |
| 16 | 17 | 5 | 49.1 | 19-20.4 | 155-12.0 | 6.8 | 2.3 | 30 | 73 | 4.5 | 0.06 | 0.6 | 0.4 | 0.18 | B |
| 16 | 21 | 53 | 57.6 | 19-19.7 | 155-12.6 | 4.9 | 1.7 | 17 | 79 | 5.1 | 0.12 | 0.9 | 1.1 | 0.21 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | 16 | 22 | 37 | 49.4 | 18-46.1 | 155-30.9 | 18.0* | | 14 | 296 | 43.5 | 1.41 | 8.9 | | 0.18 | D |
| | 16 | 22 | 44 | 43.4 | 19-24.2 | 155-27.1 | 7.8 | 2.2 | 26 | 58 | 3.3 | 0.07 | 0.5 | 0.5 | 0.12 | B |
| | 17 | 10 | 24 | 18.1 | 19-20.0 | 156-23.2 | 8.0* | | 23 | 279 | 52.1 | 0.80 | 5.0 | | 0.16 | D |
| | 17 | 10 | 34 | 9.2 | 19-14.9 | 155-24.1 | 32.0 | | 20 | 155 | 9.9 | 0.30 | 1.5 | 3.0 | 0.13 | C |
| | 17 | 11 | 53 | 37.6 | 19-22.2 | 155-12.7 | 3.8 | 1.5 | 12 | 95 | 1.1 | 0.11 | 0.5 | 1.3 | 0.09 | A |
| | 17 | 11 | 55 | 41.4 | 19-22.0 | 155-12.8 | 5.2 | 1.5 | 12 | 110 | 1.2 | 0.26 | 0.9 | 2.3 | 0.13 | A |
| | 17 | 13 | 47 | 32.2 | 19-16.9 | 155-12.5 | 4.8 | 1.9 | 22 | 159 | 1.7 | 0.10 | 0.7 | 0.7 | 0.16 | C |
| | 17 | 14 | 24 | 22.5 | 19-17.5 | 155-12.4 | 2.8 | | 16 | 152 | 2.0 | 0.12 | 0.7 | 1.5 | 0.16 | C |
| | 17 | 15 | 23 | 32.3 | 18-47.4 | 155-32.9? | 8.0* | | 23 | 294 | 41.7 | 1.70 | 10.5 | | 0.24 | D |
| | 17 | 16 | 24 | 40.0 | 19-24.6 | 155-23.5 | 8.6 | 2.5 | 26 | 58 | 6.9 | 0.03 | 0.4 | 0.8 | 0.11 | B |
| | 17 | 17 | 10 | 27.4 | 19-20.0 | 155-10.3 | 3.6 | 1.8 | 18 | 86 | 3.9 | 0.12 | 0.9 | 1.5 | 0.25 | B |
| | 17 | 20 | 50 | 3.1 | 19-21.8 | 155-24.3? | 6.7 | | 18 | 54 | 3.5 | 0.09 | 0.8 | 1.7 | 0.19 | B |
| | 18 | 0 | 52 | 41.4 | 19-19.7 | 155-11.9 | 5.8 | 1.7 | 27 | 87 | 5.6 | 0.08 | 0.6 | 0.6 | 0.21 | B |
| | 18 | 1 | 42 | 36.9 | 19-24.4 | 155-16.9 | 6.9 | 1.2 | 18 | 52 | 1.0 | 0.06 | 0.5 | 0.4 | 0.11 | B |
| | 18 | 1 | 44 | 28.2 | 19-24.0 | 155-16.8 | 7.5 | 1.4 | 11 | 90 | 1.2 | 0.07 | 0.7 | 0.5 | 0.06 | A |
| | 18 | 3 | 28 | 44.9 | 19-10.9 | 155-37.0 | 7.0 | 2.5 | 21 | 96 | 7.3 | 0.16 | 0.9 | 1.0 | 0.21 | C |
| | 18 | 4 | 55 | 14.3 | 19-21.0 | 155-13.5 | 6.1 | 1.7 | 26 | 55 | 3.0 | 0.07 | 0.6 | 0.5 | 0.18 | B |
| | 18 | 7 | 44 | 5.9 | 19-23.4 | 155-24.3 | 6.8 | | 10 | 99 | 6.0 | 0.15 | 0.9 | 1.4 | 0.15 | B |
| | 18 | 7 | 45 | 59.7 | 18-45.1 | 155-30.8 | 16.8* | | 13 | 297 | 45.4 | 1.54 | 9.6 | | 0.17 | D |
| | 18 | 14 | 48 | 26.4 | 19- 2.8 | 155-31.8 | 33.7 | | 18 | 192 | 14.1 | 0.65 | 3.2 | 5.6 | 0.17 | C |
| | 18 | 17 | 36 | 50.0 | 19-19.5 | 155-11.3 | 7.8 | | 16 | 96 | 5.3 | 0.08 | 0.7 | 0.5 | 0.13 | B |
| | 19 | 3 | 0 | 35.2 | 19-19.6 | 155-13.6 | 7.2 | 1.6 | 23 | 65 | 4.8 | 0.06 | 0.5 | 0.4 | 0.13 | B |
| | 19 | 4 | 37 | 7.5 | 19-20.2 | 155- 9.3 | 5.9 | 2.5 | 28 | 76 | 3.6 | 0.10 | 0.7 | 0.6 | 0.21 | B |
| | 19 | 7 | 7 | 17.1 | 19-31.2 | 155-42.6 | 9.0 | 2.4 | 14 | 130 | 12.0 | 0.07 | 0.8 | 1.1 | 0.13 | B |
| | 19 | 16 | 5 | 36.7 | 19-20.0 | 155-12.9 | 6.1 | 1.1 | 20 | 71 | 4.9 | 0.10 | 0.7 | 0.8 | 0.20 | B |
| | 19 | 20 | 34 | 5.3 | 19-25.9 | 155-51.9 | 9.3 | 1.8 | 15 | 136 | 8.4 | 0.08 | 0.8 | 1.4 | 0.10 | B |
| | 19 | 20 | 51 | 39.8 | 19-57.4 | 155-26.1 | 11.5 | 1.9 | 13 | 186 | 12.2 | 0.16 | 1.3 | 1.1 | 0.13 | C |
| | 20 | 14 | 36 | 38.9 | 19-19.9 | 155-13.7 | 8.0* | | 11 | 72 | 5.3 | 0.04 | 0.4 | | 0.07 | B |
| | 20 | 22 | 54 | 37.8 | 18-54.7 | 155-32.7 | 37.5* | 2.7 | 23 | 253 | 38.0 | 0.30 | 2.3 | | 0.17 | D |
| | 21 | 0 | 38 | 35.2 | 19-17.0 | 155-12.2 | 4.8 | 1.7 | 15 | 186 | 2.2 | 0.15 | 0.9 | 1.0 | 0.18 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV 21 | 2 | 49 | 9.1 | 19-17.2 | 155-12.3 | 5.5 | 1.7 | 15 | 171 | 2.0 | 0.09 | 0.6 | 0.7 | 0.11 | C |
| 21 | 4 | 47 | 10.7 | 19-22.7 | 155- 4.8? | 0.0 | 2.3 | 22 | 88 | 6.1 | 2.74 | 0.9 | 5.3 | 0.22 | C |
| 21 | 5 | 11 | 5.0 | 19-19.8 | 155-10.5 | 6.1 | 2.0 | 20 | 90 | 4.3 | 0.09 | 0.7 | 0.6 | 0.18 | B |
| 21 | 8 | 40 | 24.8 | 19-17.8 | 155-12.5 | 2.7 | | 13 | 131 | 2.2 | 0.09 | 0.6 | 1.4 | 0.13 | B |
| 21 | 14 | 18 | 52.4 | 19-23.5 | 155-27.2 | 8.2 | 2.3 | 22 | 57 | 1.9 | 0.09 | 0.9 | 1.4 | 0.21 | B |
| 21 | 23 | 9 | 48.0 | 19-25.3 | 155-27.9 | 8.7 | 2.3 | 20 | 156 | 5.2 | 0.12 | 0.9 | 1.4 | 0.13 | C |
| 21 | 23 | 18 | 46.7 | 19-21.9 | 155- 1.8? | 6.0 | 2.1 | 16 | 159 | 4.2 | 0.21 | 1.8 | 1.3 | 0.30 | D |
| 21 | 23 | 24 | 23.7 | 18-56.3 | 155-32.5 | 37.8 | 2.7 | 31 | 240 | 13.9 | 0.27 | 1.4 | 2.4 | 0.13 | C |
| 22 | 3 | 32 | 1.2 | 19-24.1 | 155-27.6 | 8.4 | | 25 | 57 | 3.0 | 0.06 | 0.6 | 1.1 | 0.15 | B |
| 22 | 3 | 48 | 59.7 | 19-46.8 | 156- 6.4 | 55.8 | | 25 | 245 | 29.8 | 0.55 | 2.4 | 4.5 | 0.12 | C |
| 22 | 15 | 26 | 47.4 | 19-18.1 | 155-12.5? | 6.2 | 1.3 | 10 | 123 | 2.6 | 0.40 | 3.4 | 1.7 | 0.21 | C |
| 22 | 17 | 34 | 14.0 | 19-18.8 | 155-14.9 | 5.5 | 1.1 | 20 | 116 | 4.1 | 0.09 | 0.7 | 0.7 | 0.18 | B |
| 22 | 21 | 40 | 43.9 | 19-20.8 | 155-14.6 | 25.8 | 2.3 | 28 | 64 | 3.8 | 0.10 | 0.7 | 1.1 | 0.12 | B |
| 23 | 1 | 36 | 45.7 | 19- 9.9 | 155-41.6 | 3.5 | 2.9 | 25 | 129 | 12.2 | 0.14 | 1.0 | 1.0 | 0.20 | C |
| 23 | 17 | 29 | 41.2 | 19-21.4 | 155-17.3 | 25.5 | 2.0 | 24 | 45 | 2.3 | 0.22 | 1.2 | 2.1 | 0.16 | B |
| 24 | 2 | 33 | 16.1 | 19-23.3 | 155-17.4 | 13.5 | 1.5 | 24 | 56 | 0.8 | 0.05 | 0.5 | 0.7 | 0.12 | B |
| 24 | 4 | 25 | 38.4 | 18-55.5 | 155-32.3 | 38.6 | 3.5 | 32 | 246 | 14.7 | 0.45 | 2.3 | 3.3 | 0.15 | C |
| 24 | 13 | 10 | 41.8 | 19-23.8 | 155-25.1 | 8.0* | 1.6 | 15 | 88 | 5.0 | 0.07 | 0.6 | | 0.12 | B |
| 24 | 13 | 45 | 0.8 | 19-56.2 | 155-11.1 | 56.2 | 2.8 | 17 | 219 | 17.3 | 0.85 | 3.1 | 7.5 | 0.13 | C |
| 25 | 7 | 42 | 41.9 | 19-20.8 | 155-12.1 | 5.4 | 1.5 | 17 | 72 | 3.8 | 0.11 | 0.8 | 0.7 | 0.18 | B |
| 26 | 8 | 4 | 56.5 | 19-23.1 | 155-24.9? | 8.0 | 1.0 | 15 | 83 | 4.8 | 0.08 | 0.7 | 0.6 | 0.13 | B |
| 26 | 13 | 32 | 28.8 | 19-21.9 | 155- 6.8 | 2.6 | 1.1 | 14 | 76 | 5.4 | 0.09 | 0.7 | 1.2 | 0.14 | B |
| 27 | 5 | 52 | 15.0 | 19-24.1 | 155-23.1 | 7.7 | 2.8 | 29 | 40 | 5.9 | 0.05 | 0.5 | 0.4 | 0.16 | B |
| 28 | 2 | 59 | 14.7 | 19-17.9 | 155-13.4 | 6.6 | 3.8 | 24 | 173 | 8.2 | 0.14 | 0.9 | 0.6 | 0.18 | C |
| 28 | 3 | 59 | 36.6 | 19-20.5 | 155-13.6 | 5.5 | 1.3 | 17 | 190 | 4.0 | 0.14 | 0.9 | 0.7 | 0.19 | C |
| 28 | 4 | 49 | 13.8 | 19-18.1 | 155-13.4 | 5.3 | 1.4 | 17 | 201 | 7.8 | 0.25 | 1.4 | 1.0 | 0.20 | C |
| 28 | 5 | 2 | 36.8 | 19-18.8 | 155-13.8 | 6.6 | 2.4 | 20 | 173 | 6.7 | 0.13 | 0.8 | 0.6 | 0.16 | C |
| 28 | 19 | 29 | 46.6 | 19-23.8 | 155-25.6? | 8.0 | 3.2 | 28 | 40 | 4.2 | 0.06 | 0.4 | 0.4 | 0.13 | B |
| 29 | 13 | 2 | 55.9 | 19-19.9 | 155-12.5 | 3.3 | 1.0 | 14 | 78 | 5.5 | 0.09 | 0.7 | 1.2 | 0.16 | C |
| 29 | 13 | 7 | 13.2 | 19-26.0 | 155-22.4 | 7.7 | 3.1 | 27 | 57 | 4.3 | 0.05 | 0.5 | 0.4 | 0.17 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV 29 | 20 | 51 | 50.6 | 19-21.9 | 155- 9.1 | 5.1 | 1.7 | 21 | 136 | 1.4 | 0.11 | 0.8 | 0.8 | 0.20 | B |
| 29 | 23 | 9 | 27.4 | 18-48.0 | 155-32.7? | 8.0* | 2.7 | 21 | 293 | 40.6 | 1.79 | 11.1 | | 0.25 | D |
| 30 | 1 | 9 | 42.8 | 19-19.2 | 155-15.4 | 5.8 | 1.2 | 19 | 108 | 3.9 | 0.11 | 0.8 | 0.6 | 0.22 | B |
| 30 | 4 | 4 | 43.2 | 19-19.9 | 155-10.2 | 3.9 | 1.1 | 17 | 108 | 4.1 | 0.13 | 0.9 | 1.2 | 0.22 | B |
| 30 | 15 | 13 | 30.4 | 19-18.9 | 155-13.2? | 7.8 | 0.9 | 14 | 79 | 3.6 | 0.09 | 0.7 | 0.6 | 0.15 | B |
| 30 | 17 | 45 | 1.8 | 19-19.9 | 155-11.3 | 8.0* | 0.6 | 15 | 93 | 4.8 | 0.05 | 0.4 | | 0.07 | B |
| 30 | 18 | 28 | 49.5 | 19-45.9 | 155-33.7 | 22.1 | 2.8 | 25 | 88 | 11.0 | 0.11 | 0.7 | 2.2 | 0.14 | B |
| DEC 1 | 1 | 50 | 21.5 | 18-57.2 | 155-32.5 | 34.0 | 2.6 | 28 | 242 | 13.3 | 0.31 | 1.8 | 2.7 | 0.16 | C |
| 1 | 6 | 6 | 29.4 | 19-19.6 | 155-11.8 | 7.7 | 1.7 | 21 | 90 | 5.6 | 0.08 | 0.6 | 0.4 | 0.15 | B |
| 1 | 10 | 0 | 46.0 | 19-16.6 | 155-29.9 | 7.7 | 2.0 | 22 | 72 | 5.6 | 0.07 | 0.6 | 0.6 | 0.17 | B |
| 1 | 12 | 42 | 18.8 | 19-18.9 | 155-13.9 | 6.9 | 0.9 | 13 | 91 | 3.5 | 0.11 | 0.8 | 0.9 | 0.15 | B |
| 1 | 23 | 28 | 3.1 | 19-20.5 | 155- 9.5? | 7.7 | 1.7 | 20 | 166 | 3.0 | 0.12 | 1.0 | 0.6 | 0.14 | C |
| 2 | 0 | 19 | 5.5 | 19-22.9 | 155-15.3 | 27.6 | 1.0 | 15 | 86 | 0.9 | 0.18 | 0.9 | 1.7 | 0.10 | B |
| 2 | 21 | 18 | 19.5 | 19-22.2 | 155-23.0 | 4.8 | 1.4 | 12 | 76 | 3.7 | 0.06 | 0.4 | 0.7 | 0.10 | B |
| 3 | 2 | 30 | 38.4 | 19-25.3 | 155-25.8 | 8.2 | 2.6 | 28 | 43 | 6.1 | 0.06 | 0.5 | 0.4 | 0.14 | B |
| 3 | 6 | 20 | 50.1 | 19-20.9 | 155- 9.3 | 7.7 | 0.4 | 13 | 197 | 2.4 | 0.17 | 1.2 | 0.7 | 0.13 | C |
| 3 | 9 | 38 | 43.3 | 19-19.5 | 155-18.6 | 27.1 | 2.0 | 21 | 75 | 2.4 | 0.21 | 1.2 | 1.9 | 0.14 | B |
| 3 | 13 | 52 | 37.2 | 19-22.9 | 155-22.8 | 8.0* | 1.1 | 11 | 91 | 5.1 | 0.05 | 0.4 | | 0.07 | B |
| 3 | 14 | 34 | 36.4 | 19-19.3 | 155-13.4 | 8.0* | 0.9 | 15 | 204 | 7.2 | 0.10 | 0.7 | | 0.10 | C |
| 4 | 0 | 8 | 14.1 | 19-18.8 | 155-13.3 | 5.9 | 1.6 | 13 | 79 | 3.3 | 0.10 | 0.7 | 0.9 | 0.14 | B |
| 4 | 0 | 28 | 0.6 | 19-11.3 | 155-17.2 | 8.0* | 2.0 | 17 | 223 | 16.3 | 0.33 | 2.0 | | 0.27 | C |
| 4 | 4 | 4 | 31.0 | 19-45.9 | 155-34.5 | 21.0 | 1.2 | 14 | 147 | 12.4 | 0.13 | 1.0 | 2.8 | 0.11 | B |
| 4 | 5 | 6 | 18.6 | 19-19.6 | 155-13.9 | 8.0* | 1.0 | 14 | 80 | 4.8 | 0.04 | 0.4 | | 0.09 | B |
| 4 | 7 | 15 | 33.5 | 19-24.4 | 155-24.1? | 7.5 | 1.8 | 24 | 58 | 7.1 | 0.05 | 0.6 | 1.6 | 0.16 | B |
| 4 | 9 | 26 | 59.3 | 19-23.2 | 155-26.8 | 8.0 | 1.2 | 12 | 157 | 1.9 | 0.08 | 0.8 | 0.5 | 0.11 | C |
| 4 | 9 | 47 | 28.6 | 19-20.6 | 155- 9.1 | 4.8 | 1.7 | 22 | 69 | 3.0 | 0.08 | 0.6 | 0.6 | 0.17 | B |
| 4 | 20 | 18 | 29.2 | 18-54.9 | 155-32.9 | 41.3 | 3.0 | 32 | 252 | 14.4 | 0.40 | 2.1 | 2.8 | 0.14 | C |
| 4 | 20 | 23 | 33.2 | 19-25.3 | 155-23.6? | 0.9 | 1.8 | 24 | 75 | 7.5 | 0.20 | 1.5 | 2.8 | 0.30 | C |
| 5 | 1 | 30 | 51.4 | 19-25.4 | 155-23.7 | 4.7 | 1.4 | 13 | 133 | 6.6 | 0.09 | 0.7 | 1.0 | 0.14 | B |
| 5 | 13 | 20 | 55.8 | 19-22.6 | 155-23.8 | 6.8 | 1.3 | 16 | 101 | 4.5 | 0.09 | 0.7 | 0.8 | 0.16 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC | 5 | 16 | 0 3.3 | 19-21.1 | 155- 7.8 | 3.6 | 1.0 | 18 | 81 | 4.1 | 0.11 | 0.8 | 1.3 | 0.21 | B |
| | 5 | 18 | 38 3.4 | 19-21.1 | 155- 7.4? | 0.6 | 1.2 | 16 | 126 | 4.7 | 1.80 | 0.9 | 6.7 | 0.19 | C |
| | 6 | 0 | 4 15.7 | 19-10.6 | 155-37.7 | 6.2 | 2.3 | 19 | 101 | 8.0 | 0.18 | 1.0 | 1.1 | 0.22 | C |
| | 6 | 12 | 46 45.4 | 19-24.9 | 155-16.1 | 11.9 | 1.3 | 19 | 92 | 1.5 | 0.04 | 0.4 | 0.4 | 0.07 | B |
| | 6 | 17 | 24 28.3 | 19-11.8 | 155-16.1 | 44.0 | 2.4 | 30 | 183 | 10.6 | 0.23 | 1.1 | 2.1 | 0.13 | C |
| | 7 | 5 | 4 48.9 | 19-22.6 | 155- 5.3 | 3.7 | 0.9 | 15 | 129 | 6.6 | 0.10 | 0.8 | 1.2 | 0.15 | B |
| | 7 | 7 | 53 7.2 | 19-21.8 | 155-12.6? | 2.5 | 1.7 | 20 | 87 | 1.7 | 0.06 | 0.5 | 1.1 | 0.15 | B |
| | 7 | 12 | 45 3.4 | 19-18.4 | 155- 2.7 | 33.0 | | 26 | 248 | 2.8 | 0.27 | 1.4 | 1.9 | 0.11 | C |
| | 8 | 1 | 56 50.3 | 18-52.0 | 155-33.1 | 8.0* | | 18 | 286 | 42.8 | 1.07 | 6.9 | | 0.24 | D |
| | 8 | 3 | 40 14.3 | 19-22.3 | 155- 7.0 | 2.8 | 1.9 | 21 | 100 | 5.0 | 0.11 | 0.7 | 1.2 | 0.18 | B |
| | 8 | 5 | 23 35.9 | 19-17.1 | 155-22.5? | 4.3 | 1.8 | 16 | 131 | 10.5 | 0.20 | 1.2 | 1.6 | 0.21 | C |
| | 8 | 5 | 55 21.0 | 19-20.7 | 155-12.4 | 6.1 | | 15 | 68 | 5.2 | 0.08 | 0.5 | 0.7 | 0.11 | B |
| | 8 | 13 | 17 47.8 | 19-20.9 | 155- 6.7 | 8.0* | 2.0 | 12 | 94 | 6.0 | 0.12 | 1.0 | | 0.18 | B |
| | 8 | 16 | 38 6.0 | 19-20.4 | 155- 8.9 | 6.7 | 2.4 | 27 | 68 | 3.5 | 0.08 | 0.6 | 0.5 | 0.17 | B |
| | 8 | 17 | 15 19.8 | 19-23.3 | 155-21.8 | 5.1 | | 18 | 86 | 3.8 | 0.10 | 0.6 | 1.0 | 0.15 | B |
| | 9 | 5 | 41 27.0 | 18-55.3 | 155-32.6 | 38.7 | | 24 | 257 | 14.4 | 0.59 | 2.9 | 4.2 | 0.14 | D |
| | 9 | 6 | 30 35.5 | 19-24.2 | 155-24.3 | 2.0 | 1.6 | 17 | 125 | 6.6 | 1.51 | 0.7 | 5.6 | 0.15 | C |
| | 9 | 7 | 27 34.9 | 19- 6.4 | 155-38.4 | 51.9* | | 12 | 295 | 36.7 | 0.22 | 3.3 | | 0.09 | D |
| | 9 | 10 | 59 58.4 | 19-20.9 | 155- 9.3 | 6.8 | 2.0 | 26 | 65 | 2.3 | 0.08 | 0.6 | 0.5 | 0.19 | B |
| | 10 | 3 | 20 9.2 | 19-26.7 | 155-51.3 | 8.0* | | 9 | 315 | 49.3 | 0.55 | 4.0 | | 0.15 | D |
| | 10 | 5 | 3 56.6 | 19-19.4 | 155-15.6 | 6.8 | 0.6 | 18 | 102 | 3.4 | 0.09 | 0.6 | 0.7 | 0.13 | B |
| | 10 | 9 | 34 37.7 | 19-20.9 | 155-12.8 | 10.2 | 1.6 | 20 | 78 | 3.1 | 0.06 | 0.4 | 0.8 | 0.07 | A |
| | 10 | 13 | 45 31.1 | 19-19.8 | 155- 9.4 | 7.6 | 1.8 | 16 | 83 | 4.3 | 0.09 | 1.1 | 0.9 | 0.17 | B |
| | 10 | 15 | 52 57.1 | 19-18.8 | 155-47.1 | 5.5 | 2.5 | 13 | 183 | 10.5 | 0.11 | 1.2 | 1.0 | 0.08 | C |
| | 10 | 18 | 55 36.9 | 19-21.3 | 155-23.5 | 7.1 | 1.6 | 12 | 120 | 2.0 | 0.11 | 0.6 | 0.8 | 0.10 | B |
| | 10 | 19 | 34 50.5 | 19-10.8 | 155-19.8 | 45.1 | 2.5 | 21 | 178 | 13.4 | 0.31 | 1.4 | 2.9 | 0.15 | C |
| | 10 | 19 | 39 35.6 | 19-11.0 | 155-21.3 | 35.9 | 1.8 | 17 | 173 | 11.8 | 0.29 | 1.5 | 2.9 | 0.16 | C |
| | 11 | 0 | 32 40.5 | 19-20.5 | 155- 9.2 | 5.7 | | 21 | 134 | 3.1 | 0.11 | 0.8 | 0.8 | 0.20 | B |
| | 11 | 0 | 33 8.6 | 19-18.5 | 155-13.4 | 6.7 | 1.9 | 16 | 82 | 2.7 | 0.10 | 0.8 | 0.7 | 0.17 | B |
| | 11 | 0 | 39 34.8 | 19-19.7 | 155-24.1 | 7.6 | 1.7 | 18 | 108 | 1.8 | 0.07 | 0.7 | 0.5 | 0.12 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC 11 | 3 | 44 | 10.3 | 19-19.8 | 155-11.5 | 5.6 | 1.1 | 18 | 92 | 5.0 | 0.10 | 0.8 | 0.7 | 0.19 | B |
| 11 | 4 | 52 | 29.9 | 19-21.5 | 155-16.5 | 21.1 | 0.8 | 13 | 155 | 1.9 | 0.24 | 1.1 | 2.1 | 0.09 | C |
| 11 | 11 | 2 | 3.4 | 19- 8.7 | 155-31.4 | 38.9 | 2.9 | 29 | 142 | 6.4 | 0.25 | 1.2 | 2.3 | 0.15 | B |
| 11 | 12 | 24 | 47.6 | 20- 9.1 | 155-50.0? | 40.1* | | 14 | 294 | 6.2 | 0.33 | 3.4 | | 0.20 | D |
| 12 | 0 | 21 | 35.1 | 19-20.6 | 155- 7.9? | 7.7 | | 18 | 83 | 4.4 | 0.07 | 0.7 | 0.5 | 0.14 | B |
| 12 | 5 | 30 | 17.9 | 20-26.1 | 155-52.5? | 39.9 | | 17 | 311 | 35.4 | 0.20 | 1.4 | 2.0 | 0.08 | C |
| 12 | 11 | 51 | 50.2 | 19-18.8 | 155-47.2 | 5.3 | | 15 | 165 | 10.3 | 0.09 | 0.8 | 0.8 | 0.08 | B |
| 12 | 16 | 7 | 32.2 | 19-24.9 | 155-24.4 | 8.0* | 2.0 | 20 | 121 | 7.2 | 0.09 | 0.8 | | 0.15 | C |
| 12 | 18 | 20 | 36.3 | 19-21.2 | 155- 4.9 | 5.1 | 1.9 | 19 | 93 | 4.2 | 0.06 | 0.7 | 0.5 | 0.09 | A |
| 12 | 22 | 41 | 25.9 | 19-44.6 | 156- 1.9 | 41.8 | 2.9 | 24 | 284 | 21.2 | 0.21 | 1.3 | 2.0 | 0.10 | C |
| 13 | 2 | 16 | 16.4 | 19-19.9 | 155-18.5 | 6.1 | 1.4 | 12 | 91 | 2.0 | 0.14 | 0.4 | 1.1 | 0.06 | A |
| 13 | 3 | 23 | 10.0 | 19-19.3 | 155-13.5 | 9.9 | | 14 | 75 | 4.3 | 0.07 | 0.5 | 1.2 | 0.07 | A |
| 13 | 4 | 25 | 56.0 | 19-21.0 | 155-17.6 | 32.1 | 4.6 | 34 | 33 | 1.7 | 0.13 | 0.8 | 1.3 | 0.15 | B |
| 13 | 4 | 32 | 48.0 | 19-20.9 | 155-17.9 | 32.1 | 2.6 | 31 | 43 | 1.7 | 0.15 | 0.9 | 1.4 | 0.14 | B |
| 13 | 4 | 41 | 39.4 | 19-22.1 | 155-17.2 | 28.3 | | 22 | 40 | 2.4 | 0.16 | 0.9 | 1.6 | 0.11 | B |
| 13 | 4 | 44 | 1.0 | 19-23.2 | 155-26.1 | 7.6 | 2.0 | 23 | 61 | 2.9 | 0.09 | 0.7 | 0.7 | 0.14 | B |
| 13 | 5 | 16 | 43.6 | 19-21.4 | 155-17.4 | 29.1 | 1.6 | 20 | 42 | 2.3 | 0.17 | 0.9 | 1.7 | 0.12 | B |
| 13 | 6 | 44 | 32.3 | 19-20.2 | 155-12.1 | 7.0 | 1.9 | 25 | 77 | 4.8 | 0.07 | 0.6 | 0.5 | 0.16 | B |
| 13 | 7 | 21 | 19.6 | 19-20.6 | 155-17.8 | 29.2 | 1.6 | 22 | 50 | 1.1 | 0.15 | 0.8 | 1.5 | 0.12 | B |
| 13 | 7 | 25 | 27.3 | 19-24.5 | 155-25.5 | 8.0* | 1.6 | 22 | 67 | 5.3 | 0.06 | 0.6 | | 0.13 | B |
| 13 | 7 | 42 | 11.2 | 19-21.1 | 155-17.4 | 32.1 | 2.1 | 27 | 41 | 1.8 | 0.14 | 0.8 | 1.4 | 0.14 | B |
| 13 | 7 | 55 | 14.5 | 19-19.6 | 155-12.1 | 8.0* | | 14 | 87 | 5.4 | 0.05 | 0.4 | | 0.08 | B |
| 13 | 13 | 20 | 33.8 | 19-21.9 | 155-17.8 | 23.5 | 1.9 | 22 | 31 | 3.1 | 0.10 | 0.6 | 1.0 | 0.10 | B |
| 13 | 18 | 48 | 10.0 | 19-20.4 | 155-17.9 | 29.9 | 1.2 | 17 | 67 | 4.6 | 0.23 | 1.1 | 2.4 | 0.14 | B |
| 14 | 4 | 15 | 28.6 | 19-28.6 | 155-54.5? | 8.6 | 2.6 | 10 | 150 | 1.5 | 0.32 | 3.0 | 2.4 | 0.21 | C |
| 14 | 4 | 36 | 22.5 | 19-28.3 | 155-52.4 | 3.6 | 2.6 | 16 | 111 | 5.1 | 0.17 | 1.5 | 1.7 | 0.25 | C |
| 14 | 6 | 7 | 5.6 | 19-42.9 | 155-10.7 | 44.8 | 2.5 | 32 | 137 | 15.7 | 0.25 | 1.0 | 2.4 | 0.14 | B |
| 14 | 11 | 20 | 15.1 | 19-20.9 | 155- 8.4 | 5.6 | 1.7 | 27 | 72 | 3.3 | 0.08 | 0.6 | 0.6 | 0.18 | B |
| 14 | 16 | 46 | 39.8 | 19-18.9 | 155-13.7 | 6.9 | 3.5 | 32 | 68 | 3.6 | 0.06 | 0.5 | 0.3 | 0.15 | B |
| 14 | 17 | 2 | 0.8 | 19-20.0 | 155-12.0 | 7.2 | | 14 | 81 | 5.2 | 0.10 | 0.7 | 0.7 | 0.15 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC 14 | 18 | 32 | 59.3 | 19-20.7 | 155- 9.0 | 5.1 | 2.2 | 28 | 70 | 2.9 | 0.09 | 0.7 | 0.6 | 0.20 | B |
| 15 | 14 | 15 | 58.7 | 19-27.1 | 155-21.8 | 8.6 | 1.9 | 17 | 79 | 2.1 | 0.04 | 0.4 | 0.8 | 0.07 | A |
| 15 | 15 | 26 | 51.7 | 19-20.5 | 155-11.1 | 6.9 | 1.6 | 26 | 76 | 3.7 | 0.06 | 0.6 | 0.4 | 0.17 | B |
| 15 | 21 | 7 | 48.8 | 19-22.8 | 155-24.6 | 8.0* | 1.6 | 13 | 109 | 5.3 | 0.05 | 0.4 | | 0.07 | B |
| 15 | 23 | 32 | 44.4 | 19-17.5 | 155-18.9 | 28.7 | 2.1 | 24 | 131 | 0.9 | 0.13 | 0.8 | 1.3 | 0.12 | B |
| 16 | 5 | 37 | 1.3 | 19-18.8 | 155-13.9 | 5.6 | 1.3 | 22 | 69 | 3.4 | 0.08 | 0.6 | 0.6 | 0.18 | B |
| 16 | 7 | 33 | 47.1 | 19-20.4 | 155- 9.4 | 6.0 | 1.7 | 18 | 73 | 3.1 | 0.11 | 0.8 | 0.9 | 0.23 | B |
| 16 | 14 | 42 | 15.1 | 19-20.1 | 155-12.5 | 7.3 | 2.4 | 27 | 73 | 4.7 | 0.06 | 0.5 | 0.4 | 0.16 | B |
| 16 | 22 | 9 | 22.7 | 19-20.7 | 155- 8.9 | 4.8 | 1.7 | 20 | 67 | 3.1 | 0.08 | 0.7 | 0.7 | 0.19 | B |
| 17 | 1 | 47 | 52.5 | 19-19.0 | 155-15.4 | 9.6 | | 12 | 128 | 4.1 | 0.21 | 0.9 | 1.9 | 0.09 | B |
| 17 | 6 | 0 | 33.9 | 19-19.4 | 155-13.6 | 8.4 | | 15 | 77 | 4.4 | 0.05 | 0.4 | 0.3 | 0.10 | B |
| 17 | 18 | 25 | 2.6 | 19-22.0 | 155-23.6? | 8.4 | | 12 | 105 | 3.4 | 0.08 | 0.5 | 0.6 | 0.09 | B |
| 17 | 21 | 14 | 40.2 | 18-55.6 | 155-32.7 | 38.4 | 2.8 | 30 | 247 | 14.0 | 0.41 | 2.1 | 3.1 | 0.13 | C |
| 17 | 21 | 46 | 53.7 | 18-60.0 | 155-20.3? | 29.7 | | 20 | 240 | 22.1 | 0.41 | 2.2 | 3.9 | 0.14 | C |
| 17 | 22 | 0 | 41.1 | 19-22.0 | 155-12.4 | 3.5 | 1.5 | 11 | 79 | 1.7 | 0.06 | 0.3 | 1.0 | 0.06 | A |
| 18 | 3 | 35 | 32.6 | 19-22.4 | 155-24.6 | 8.1 | 2.0 | 23 | 51 | 4.7 | 0.06 | 0.6 | 0.4 | 0.12 | B |
| 18 | 10 | 41 | 2.7 | 19-18.7 | 155-13.4 | 6.4 | 1.6 | 16 | 78 | 3.1 | 0.10 | 0.7 | 0.7 | 0.16 | B |
| 18 | 13 | 39 | 9.5 | 19-21.0 | 155- 8.0 | 4.3 | | 22 | 78 | 3.8 | 0.10 | 0.7 | 0.8 | 0.21 | B |
| 18 | 18 | 42 | 41.9 | 19-18.2 | 155-13.2 | 8.3 | 0.8 | 14 | 93 | 2.2 | 0.07 | 0.7 | 0.5 | 0.11 | B |
| 18 | 19 | 25 | 16.7 | 19-18.4 | 155-13.2 | 8.3 | 0.3 | 12 | 89 | 2.7 | 0.08 | 0.7 | 0.5 | 0.11 | B |
| 18 | 22 | 1 | 41.8 | 19-20.1 | 155- 9.8 | 9.1 | 0.8 | 15 | 81 | 3.6 | 0.07 | 0.5 | 1.1 | 0.08 | A |
| 18 | 23 | 30 | 23.8 | 19-18.1 | 155-14.2? | 7.1 | | 14 | 119 | 2.4 | 0.13 | 0.7 | 1.0 | 0.13 | B |
| 19 | 21 | 57 | 34.6 | 19-26.8 | 155-27.4 | 8.0* | 1.8 | 17 | 105 | 8.0 | 0.08 | 0.6 | | 0.13 | B |
| 19 | 23 | 17 | 47.6 | 18-56.5 | 155-32.8 | 38.6 | 3.2 | 33 | 239 | 13.3 | 0.25 | 1.4 | 2.1 | 0.15 | C |
| 20 | 2 | 31 | 27.4 | 19-22.2 | 155-11.3 | 7.4 | 1.1 | 16 | 90 | 2.5 | 0.07 | 0.6 | 0.4 | 0.12 | B |
| 20 | 5 | 1 | 12.9 | 19-40.8 | 155-14.9 | 44.3 | 2.5 | 24 | 107 | 23.2 | 0.27 | 1.1 | 2.7 | 0.13 | B |
| 20 | 6 | 32 | 46.8 | 19-19.6 | 155-13.1 | 6.0 | 1.6 | 24 | 73 | 4.7 | 0.08 | 0.6 | 0.6 | 0.19 | B |
| 20 | 10 | 40 | 42.3 | 19-18.5 | 155-13.9 | 6.2 | 1.6 | 17 | 73 | 2.8 | 0.08 | 0.7 | 0.6 | 0.15 | B |
| 20 | 10 | 57 | 39.7 | 19-17.8 | 155-15.2 | 6.7 | 0.6 | 16 | 159 | 3.4 | 0.10 | 0.6 | 0.6 | 0.11 | C |
| 20 | 14 | 30 | 15.1 | 19-22.1 | 155-23.7? | 6.8 | 1.5 | 14 | 75 | 3.5 | 0.10 | 1.0 | 2.0 | 0.19 | B |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC 20 | 17 | 18 | 29.9 | 19-19.8 | 155- 9.3 | 9.4 | 0.6 | 14 | 82 | 4.2 | 0.09 | 0.5 | 1.2 | 0.09 | A |
| 20 | 19 | 22 | 6.3 | 19-19.0 | 155-15.6 | 6.2 | 0.5 | 16 | 116 | 3.8 | 0.10 | 0.7 | 0.7 | 0.16 | B |
| 20 | 21 | 27 | 7.9 | 19-19.3 | 155-14.5 | 6.9 | 0.6 | 17 | 94 | 4.6 | 0.10 | 0.7 | 0.7 | 0.15 | B |
| 21 | 1 | 46 | 56.7 | 18-52.7 | 155-32.9 | 39.0 | | 25 | 276 | 16.8 | 0.68 | 3.5 | 4.4 | 0.14 | D |
| 21 | 4 | 15 | 5.0 | 19-19.8 | 155-12.1 | 6.2 | 1.9 | 29 | 83 | 5.5 | 0.07 | 0.6 | 0.5 | 0.19 | B |
| 21 | 13 | 48 | 26.9 | 19-19.9 | 155-28.2 | 8.1 | | 16 | 101 | 5.0 | 0.09 | 0.8 | 0.6 | 0.15 | B |
| 22 | 3 | 29 | 11.3 | 19-23.1 | 155-24.6? | 8.1 | 1.6 | 18 | 61 | 5.5 | 0.07 | 0.5 | 0.7 | 0.12 | B |
| 22 | 6 | 43 | 8.0 | 19-19.2 | 155-13.6 | 8.4 | | 14 | 116 | 4.1 | 0.11 | 0.8 | 1.8 | 0.10 | B |
| 22 | 7 | 15 | 55.6 | 19-24.2 | 155-15.9 | 2.1 | 0.8 | 9 | 109 | 1.3 | 0.04 | 0.3 | 0.2 | 0.05 | A |
| 22 | 17 | 3 | 40.7 | 19-22.1 | 155-23.9? | 8.0 | 1.7 | 21 | 75 | 3.6 | 0.06 | 0.6 | 0.4 | 0.15 | B |
| 22 | 17 | 13 | 53.8 | 19-22.8 | 155-24.8 | 8.0* | 1.7 | 11 | 113 | 4.9 | 0.06 | 0.5 | | 0.08 | B |
| 22 | 18 | 3 | 36.9 | 19-22.9 | 155-24.8 | 8.0* | | 11 | 110 | 5.0 | 0.06 | 0.5 | | 0.08 | B |
| 22 | 18 | 18 | 5.0 | 19-24.5 | 155-24.8 | 5.5 | | 14 | 135 | 6.2 | 0.09 | 0.6 | 0.7 | 0.13 | B |
| 22 | 18 | 19 | 29.1 | 19-21.4 | 155-16.7 | 16.3 | 1.7 | 24 | 62 | 2.2 | 0.10 | 0.7 | 1.2 | 0.13 | B |
| 23 | 2 | 28 | 5.4 | 19-23.5 | 155-23.2 | 8.0* | | 15 | 103 | 6.1 | 0.06 | 0.5 | | 0.11 | B |
| 23 | 3 | 44 | 56.6 | 19-22.8 | 155-28.8? | 8.4 | 2.0 | 26 | 84 | 2.2 | 0.11 | 0.8 | 0.7 | 0.21 | B |
| 23 | 3 | 58 | 29.3 | 19-22.3 | 155-23.8 | 8.3 | 2.4 | 32 | 35 | 4.0 | 0.05 | 0.5 | 0.4 | 0.14 | B |
| 23 | 4 | 5 | 13.5 | 19-24.7 | 155-16.5 | 1.1 | 0.9 | 11 | 96 | 0.9 | 0.05 | 0.3 | 0.3 | 0.09 | A |
| 23 | 9 | 59 | 19.6 | 19-19.6 | 155-15.8 | 5.7 | 1.5 | 21 | 100 | 2.9 | 0.08 | 0.6 | 0.6 | 0.17 | B |
| 23 | 12 | 9 | 55.6 | 18-56.3 | 155-32.3 | 32.8 | | 19 | 249 | 14.3 | 0.72 | 3.6 | 5.3 | 0.15 | D |
| 23 | 17 | 19 | 30.0 | 19-19.4 | 155-13.9 | 6.3 | 2.0 | 29 | 62 | 4.4 | 0.07 | 0.6 | 0.5 | 0.18 | B |
| 23 | 17 | 37 | 17.0 | 19-25.8 | 155-33.8 | 41.6 | 2.6 | 19 | 134 | 7.4 | 0.28 | 1.1 | 2.4 | 0.08 | B |
| 23 | 17 | 50 | 17.0 | 19-21.8 | 155-12.5? | 0.6 | 1.7 | 17 | 58 | 1.8 | 0.08 | 0.6 | 2.7 | 0.15 | B |
| 23 | 20 | 42 | 0.8 | 19-20.3 | 155-12.1 | 6.0 | 1.7 | 26 | 75 | 4.6 | 0.08 | 0.6 | 0.6 | 0.21 | B |
| 24 | 0 | 42 | 13.7 | 18-54.9 | 155-33.1 | 40.0 | | 22 | 262 | 14.1 | 0.63 | 3.1 | 4.5 | 0.13 | D |
| 24 | 1 | 10 | 53.5 | 19-19.5 | 155-14.0 | 6.3 | 1.7 | 25 | 65 | 4.6 | 0.08 | 0.6 | 0.5 | 0.17 | B |
| 24 | 6 | 44 | 2.1 | 19-22.0 | 155-24.7 | 7.9 | 1.8 | 22 | 50 | 4.2 | 0.06 | 0.6 | 0.5 | 0.15 | B |
| 24 | 8 | 49 | 53.4 | 19-18.9 | 155-13.6 | 4.0 | 1.6 | 16 | 84 | 3.4 | 0.11 | 0.8 | 1.2 | 0.22 | B |
| 24 | 19 | 0 | 49.8 | 19-18.1 | 155-12.3? | 2.3 | | 13 | 124 | 2.9 | 0.13 | 0.9 | 3.2 | 0.21 | C |
| 24 | 20 | 17 | 6.1 | 19-37.8 | 156-15.2 | 11.9* | 2.9 | 28 | 263 | 38.5 | 0.40 | 2.6 | | 0.16 | D |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC 25 | 0 | 7 | 8.6 | 19-24.1 | 155-15.9 | 1.9 | 0.8 | 8 | 111 | 1.3 | 0.07 | 0.4 | 0.3 | 0.08 | A |
| 25 | 1 | 46 | 40.1 | 19-23.4 | 155-24.0 | 4.9 | 1.5 | 13 | 96 | 6.0 | 0.09 | 0.7 | 1.0 | 0.14 | B |
| 25 | 2 | 44 | 2.8 | 19-24.5 | 155-24.3 | 8.0* | 1.7 | 17 | 69 | 6.9 | 0.05 | 0.5 | | 0.10 | B |
| 25 | 8 | 4 | 12.5 | 19-18.4 | 155-13.5 | 5.3 | 1.7 | 16 | 85 | 2.6 | 0.10 | 0.7 | 0.7 | 0.17 | B |
| 25 | 8 | 38 | 6.9 | 19-18.3 | 155-13.4 | 6.1 | 1.8 | 20 | 84 | 2.4 | 0.10 | 0.8 | 0.6 | 0.19 | B |
| 25 | 9 | 51 | 26.1 | 19-22.2 | 155-12.7 | 5.9 | 0.1 | 14 | 95 | 1.0 | 0.09 | 0.6 | 0.8 | 0.11 | B |
| 25 | 14 | 4 | 47.4 | 19-18.0 | 155-13.2 | 7.8 | 2.9 | 27 | 98 | 2.0 | 0.05 | 0.5 | 0.3 | 0.12 | B |
| 25 | 14 | 6 | 4.1 | 19-17.7 | 155-13.6 | 6.1 | 1.4 | 14 | 100 | 1.2 | 0.15 | 1.0 | 0.9 | 0.19 | B |
| 25 | 14 | 6 | 55.2 | 19-18.3 | 155-13.5 | 6.6 | 1.9 | 24 | 79 | 2.3 | 0.08 | 0.6 | 0.5 | 0.16 | B |
| 25 | 14 | 8 | 14.1 | 19-18.2 | 155-13.2 | 6.4 | 1.2 | 16 | 91 | 2.3 | 0.12 | 0.9 | 0.8 | 0.16 | B |
| 25 | 14 | 28 | 27.4 | 19-18.4 | 155-13.2 | 6.6 | 1.1 | 14 | 89 | 2.7 | 0.11 | 0.7 | 0.8 | 0.12 | B |
| 25 | 14 | 39 | 6.9 | 19-18.4 | 155-13.2 | 6.7 | 0.7 | 14 | 88 | 2.6 | 0.11 | 0.8 | 0.7 | 0.14 | B |
| 25 | 16 | 47 | 29.2 | 19-17.9 | 155-13.1? | 8.2 | 0.5 | 13 | 103 | 1.7 | 0.09 | 0.8 | 0.5 | 0.13 | B |
| 25 | 22 | 39 | 39.2 | 19-20.7 | 155- 7.7 | 4.2 | 1.9 | 24 | 84 | 4.5 | 0.10 | 0.7 | 0.8 | 0.21 | B |
| 25 | 22 | 41 | 21.0 | 19-21.3 | 155- 7.5 | 0.6* | 0.7 | 14 | 85 | 7.3 | 0.07 | 0.5 | | 0.12 | C |
| 25 | 22 | 53 | 39.4 | 19-17.5 | 155-13.2 | 6.4 | 1.8 | 27 | 118 | 1.1 | 0.07 | 0.5 | 0.4 | 0.15 | B |
| 25 | 23 | 24 | 32.8 | 19-22.3 | 155-11.3 | 5.6 | 1.0 | 19 | 92 | 2.7 | 0.06 | 0.5 | 0.6 | 0.11 | B |
| 26 | 0 | 9 | 18.7 | 19-17.8 | 155-13.1 | 6.6 | 2.7 | 28 | 107 | 1.6 | 0.06 | 0.5 | 0.4 | 0.15 | B |
| 26 | 0 | 54 | 25.9 | 19-18.5 | 155-13.5 | 6.4 | 1.2 | 19 | 78 | 2.7 | 0.08 | 0.6 | 0.5 | 0.14 | B |
| 26 | 4 | 3 | 28.1 | 19-18.7 | 155-28.1? | 8.3 | 1.9 | 19 | 53 | 4.8 | 0.10 | 0.8 | 0.7 | 0.21 | B |
| 26 | 6 | 0 | 14.8 | 19-20.6 | 155-13.0 | 6.5 | 0.2 | 16 | 68 | 3.6 | 0.11 | 0.7 | 0.9 | 0.16 | B |
| 26 | 6 | 23 | 54.1 | 19-23.4 | 155-24.0 | 8.0* | 1.5 | 15 | 111 | 6.1 | 0.04 | 0.4 | | 0.09 | B |
| 26 | 12 | 58 | 47.8 | 19-22.1 | 155- 4.5 | 4.2 | 1.9 | 17 | 139 | 5.0 | 0.14 | 1.0 | 1.3 | 0.20 | B |
| 26 | 14 | 34 | 8.6 | 19-22.4 | 155-11.2 | 4.7 | 0.8 | 13 | 95 | 2.4 | 0.09 | 0.4 | 1.1 | 0.10 | B |
| 27 | 3 | 35 | 19.1 | 19-20.0 | 155-11.7 | 5.0 | 1.6 | 21 | 84 | 5.0 | 0.10 | 0.7 | 0.9 | 0.21 | B |
| 27 | 3 | 46 | 8.0 | 19-23.3 | 155-22.9? | 6.8 | 1.7 | 21 | 89 | 5.6 | 0.08 | 0.8 | 1.8 | 0.19 | B |
| 27 | 6 | 8 | 21.6 | 19-23.1 | 155- 5.7? | 0.0 | 1.8 | 22 | 77 | 7.5 | 4.49 | 0.7 | 8.5 | 0.19 | C |
| 27 | 6 | 8 | 59.6 | 19-19.9 | 155-11.6 | 8.0* | 1.1 | 17 | 86 | 5.1 | 0.03 | 0.3 | | 0.07 | B |
| 27 | 12 | 4 | 4.5 | 19-22.2 | 155-12.9 | 2.6 | 1.1 | 20 | 49 | 0.8 | 0.06 | 0.5 | 1.1 | 0.15 | B |
| 27 | 18 | 6 | 24.2 | 20- 0.5 | 155-29.8 | 22.2 | 2.1 | 28 | 191 | 20.8 | 0.18 | 1.2 | 3.1 | 0.14 | C |

SUMMARY OF SEISMIC EVENTS (CONTINUED)

| 1973 | HR | MN | SEC | LAT N | LONG W | DEPTH | MAG | NO | GAP | DMIN | ERT | ERH | ERZ | MD | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC 27 | 19 | 0 | 4.0 | 19-22.0 | 155-26.0? | 7.7 | 2.5 | 31 | 62 | 3.0 | 0.06 | 0.6 | 1.0 | 0.18 | B |
| 27 | 19 | 1 | 45.8 | 19-22.4 | 155-26.1? | 8.0 | 1.2 | 23 | 73 | 2.8 | 0.08 | 0.7 | 1.3 | 0.17 | B |
| 28 | 0 | 49 | 51.7 | 19-17.3 | 155-27.6? | 7.6 | 1.9 | 18 | 93 | 2.3 | 0.14 | 1.1 | 1.0 | 0.26 | B |
| 28 | 1 | 54 | 8.2 | 18-56.1 | 155-32.8 | 37.2 | 2.7 | 28 | 243 | 13.6 | 0.46 | 2.3 | 3.5 | 0.15 | C |
| 28 | 5 | 33 | 6.7 | 19-22.2 | 155-11.6 | 5.8 | 2.1 | 22 | 89 | 2.6 | 0.06 | 0.5 | 0.6 | 0.15 | B |
| 28 | 11 | 43 | 31.9 | 19-20.1 | 155- 7.9? | 7.7 | 1.8 | 20 | 89 | 5.0 | 0.09 | 0.9 | 0.8 | 0.17 | B |
| 28 | 16 | 59 | 48.6 | 19-21.9 | 155-11.3 | 2.8 | | 8 | 130 | 2.6 | 0.07 | 0.4 | 1.3 | 0.04 | B |
| 28 | 19 | 23 | 24.5 | 19-51.7 | 155-49.3 | 47.1 | 2.0 | 15 | 174 | 19.4 | 0.25 | 1.0 | 2.4 | 0.06 | C |
| 29 | 2 | 40 | 56.0 | 19-21.4 | 155-24.6 | 7.7 | 1.6 | 13 | 109 | 3.2 | 0.06 | 0.6 | 0.4 | 0.09 | B |
| 29 | 4 | 46 | 17.8 | 19-21.8 | 155- 5.4 | 8.0* | 1.2 | 16 | 79 | 5.6 | 0.09 | 0.8 | | 0.19 | B |
| 29 | 7 | 27 | 28.8 | 19-19.5 | 155-14.0 | 6.8 | 1.6 | 22 | 64 | 4.7 | 0.07 | 0.6 | 0.5 | 0.16 | B |
| 29 | 12 | 24 | 23.6 | 19-27.3 | 155-21.9 | 9.3 | 1.8 | 12 | 105 | 2.1 | 0.12 | 0.6 | 1.2 | 0.06 | A |
| 29 | 21 | 36 | 41.8 | 19-58.3 | 155-20.9 | 11.3 | 1.7 | 12 | 201 | 9.1 | 0.27 | 1.9 | 1.4 | 0.17 | C |
| 30 | 1 | 48 | 49.8 | 19-23.1 | 155-29.5? | 7.4 | 1.5 | 17 | 94 | 3.5 | 0.12 | 1.1 | 1.8 | 0.19 | B |
| 30 | 2 | 12 | 40.7 | 19-19.3 | 155-15.1 | 7.3 | 1.8 | 25 | 86 | 4.2 | 0.04 | 0.4 | 0.3 | 0.10 | B |
| 30 | 11 | 13 | 47.0 | 19-28.9 | 155-46.2 | 5.3 | 2.7 | 17 | 106 | 15.6 | 0.08 | 0.5 | 0.7 | 0.11 | C |
| 30 | 11 | 25 | 56.5 | 19-30.5 | 155-46.5 | 5.7 | 1.8 | 13 | 190 | 15.3 | 0.13 | 1.3 | 1.0 | 0.13 | C |
| 30 | 12 | 4 | 17.4 | 19-30.6 | 155-46.6 | 6.4 | 2.4 | 13 | 191 | 15.1 | 0.10 | 1.1 | 0.7 | 0.10 | C |
| 30 | 18 | 41 | 27.7 | 19-22.0 | 155-11.4 | 4.3 | 1.5 | 11 | 132 | 2.8 | 0.41 | 1.4 | 4.9 | 0.15 | B |
| 30 | 22 | 47 | 13.6 | 19-19.4 | 155-10.1? | 8.0* | | 6 | 297 | 5.0 | 0.35 | 5.5 | | 0.11 | D |
| 30 | 23 | 55 | 26.6 | 19-12.0 | 155-29.3? | 5.9 | 1.5 | 22 | 76 | 5.2 | 0.09 | 0.7 | 0.6 | 0.16 | B |
| 31 | 7 | 30 | 15.8 | 19-20.9 | 155-13.1 | 8.0* | 1.0 | 17 | 87 | 5.5 | 0.05 | 0.4 | | 0.09 | B |

Table 3. Felt earthquakes

| Date | Time H | M | S | Magnitude | Felt report |
|---|---|---|---|---|---|
| Oct 1 | 06 | 43 | 06.6 | 3.9 | Kamuela, Honokaa, Hilo, Puu Anahulu, Kawaihae, Kealakekua, Kohala, Honokahau |
| 2 | 06 | 51 | 14.9 | 3.3 | Honokaa |
| 2 | 07 | 18 | 14.4 | 3.1 | Honokaa |
| 9 | 01 | 53 | 45.2 | 4.6 | Island-wide Hawaii |
| 9 | 02 | 01 | 02.4 | 4.3 | Volcano, Kapapala, Honokaa, Hilo |
| 9 | 02 | 19 | 43.4 | 2.7 | Kapapala |
| 9 | 02 | 23 | 47.5 | 2.5 | Kapapala |
| 9 | 02 | 50 | 36.8 | 2.7 | Kapapala |
| 9 | 03 | 27 | 28.9 | 2.6 | Kapapala |
| 9 | 04 | 59 | 49.1 | 2.9 | Kapapala |
| 13 | 06 | 11 | 11.6 | 4.3 | Kamuela, Honokaa, Maui (Haleakala, and Kula) |
| 18 | 02 | 31 | 50.0 | 3.6 | Kapapala |
| 22 | 05 | 19 | 47.6 | 2.9 | Honokaa |
| 23 | 22 | 34 | 07.1 | 2.5 | Kapapala |
| 26 | 07 | 53 | 19.5 | 4.3 | Kapapala, Hilo, Volcano, Pahala, Kamuela, South Kona, Honokaa |
| Nov 3 | 11 | 12 | 41.7 | 4.0 | Kapapala, Glenwood |
| 5 | 22 | 05 | 57.6 | 2.5 | Kapapala, Volcano |
| 9 | 02 | 03 | 25.5 | 2.8 | Hawaiian Volcano Observatory |
| 10 | 07 | 20 | 28.6 | ? | Honokaa |
| 11 | 23 | 38 | 58.0 | 4.1 | Honokaa, South Kona, Hilo |
| 28 | 02 | 59 | 14.7 | 3.8 | Honokaa, Keaau, Hilo, Mt. View, Volcano, Kapapala |
| 28 | 19 | 29 | 46.6 | 3.2 | Kapapala, Volcano |
| 13 | 04 | 25 | 56.0 | 4.6 | Island-wide Hawaii |
| 14 | 16 | 46 | 39.8 | 3.5 | Hilo |

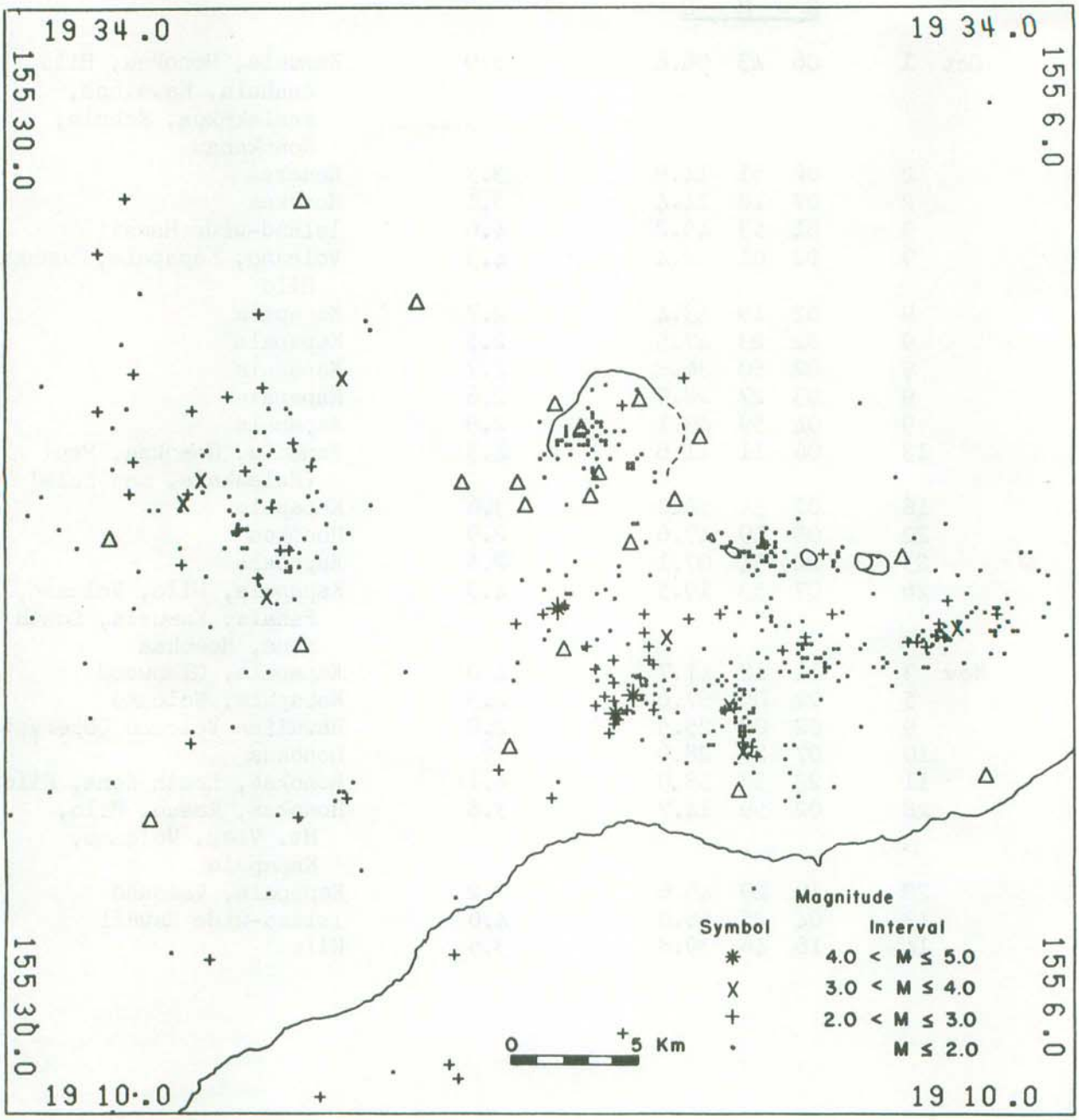


Figure 1.--Plot of epicenters in the Kilauea region. Triangles are seismometer locations. Kilauea Caldera and the major pit craters on the east rift are shown in outline. The Pacific Ocean lies in the lower right portion of the illustration.

Table 4. Seismometer stations in Hawaii operated by the U. S. Geological Survey.

| STATION NAME | CODE | LAT-N | LONG-W | ELEV | TYPE | CAL | VCO | RADIO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| AHUA | AHU | 19 22.40 | 155 15.90 | 1070 | 3 | 6.0 | 2380 | | |
| AINAHOU | AIN | 19 22.50 | 155 27.62 | 1524 | 1 | 6.0 | 1700 | RF9 | |
| CAPTAIN COOK | CAC | 19 29.29 | 155 55.09 | 323 | 1 | 6.0 | 2720 | RF8 | |
| CONE PEAK | CPK | 19 23.70 | 155 19.70 | 1038 | 3 | 1.34 | | | |
| DESERT | DES | 19 20.20 | 155 23.30 | 815 | 3 | 1.34 | | | |
| ESCAPE ROAD | ESR | 19 24.68 | 155 14.33 | 1177 | 1 | 6.0 | 1360 | | |
| HALE POHAKU | HPU | 19 46.85 | 155 27.50 | 3396 | 1 | 5.6 | 1360 | RF6 | |
| HILINA PALI | HLP | 19 17.96 | 155 18.63 | 707 | 3 | 6.0 | 2040 | | |
| HUALALAI | HUA | 19 41.25 | 155 50.32 | 2189 | 1 | 5.2 | 1700 | RF4 | |
| KAAPUNA | KAA | 19 15.98 | 155 52.28 | 524 | 1 | 5.5 | 1020 | RF12 | |
| KAENA | KAE | 19 17.35 | 155 7.95 | 37 | 1 | 6.0 | 2380 | RF6 | |
| KAHUKU | KHU | 19 14.90 | 155 37.10 | 1939 | 1 | 5.7 | 1700 | RF3 | |
| KAPAPALA RANCH | KPR | 19 16.40 | 155 26.70 | 610 | 1 | 6.5 | 1700 | RF1 | |
| KEANAKOLU | KKU | 19 53.39 | 155 20.58 | 1863 | 1 | 4.8 | 2380 | RF7 | |
| KIPUKA NENE | KPN | 19 20.10 | 155 17.40 | 924 | 3 | 1.34 | | | |
| KOHALA | KOH | 20 7.69 | 155 46.77 | 1166 | 1 | 1.5 | 2380 | RF2 | |
| M12 | M12 | 19 23.69 | 155 18.45 | 1116 | 1 | 6.0 | 2040 | | |
| MAU | MAU | 19 22.34 | 155 12.52 | 994 | | | | | Temporary |
| MAUNA LOA | MLO | 19 29.80 | 155 23.30 | 2010 | 1 | 6.5 | 1360 | | |
| MAUNA LOA X | MLX | 19 27.60 | 155 20.70 | 1475 | 3 | 1.34 | | | |
| MAKAOPUHI | MPR | 19 22.07 | 155 9.85 | 881 | 1 | 5.7 | 2720 | RF5 | |
| MOKUAWEOWEO | MOK | 19 29.28 | 155 35.98 | 4104 | 1 | 6.5 | 2040 | RF3 | |
| MOUNTAIN VIEW | MTV | 19 30.25 | 155 3.75 | 409 | 1 | 6.2 | 680 | RF8 | |
| NATIONAL GUARD | NAG | 19 42.12 | 155 1.72 | 18 | 1 | 6.0 | 1360 | RF3 | |
| NORTH PIT | NPT | 19 24.90 | 155 17.00 | 1115 | 3 | 1.34 | | | |
| OUTLET | OTL | 19 23.38 | 155 16.94 | 1038 | 3 | 5.0 | | | |
| PAU | PAU | 19 22.62 | 155 13.10 | 994 | | | | | Installed 11/12/73 |
| POLIOKEAWE PALI | POL | 19 17.02 | 155 13.47 | 169 | 1 | 6.0 | 1360 | RF12 | |
| PUU HULUHULU | PHH | 19 22.45 | 155 12.66 | 988 | 3 | | | | Discontinued 11/10/73 |
| PUU HONUAULA | PHO | 19 28.90 | 154 53.40 | 215 | 1 | 6.5 | 2720 | RF1 | |
| PUU PILI | PPL | 19 9.50 | 155 27.87 | 35 | 1 | 4.4 | 1360 | RF11 | |
| RIM | RIM | 19 23.90 | 155 16.60 | 1128 | 1 | 6.0 | 1020 | | |
| SOUTH POINT | SPT | 18 58.91 | 155 39.92 | 244 | 1 | 7.8 | 2040 | RF7 | |
| WAHAULA | WHA | 19 19.90 | 155 2.92 | 29 | 1 | 6.0 | 680 | RF9 | |
| WALDRON LEDGE | WLG | 19 25.49 | 155 15.69 | 1067 | 3 | | | | |
| OPTICAL SEISMOGRAPHS | | | | | | | | | |
| HALEAKALA Z | HAL | 20 46.00 | 156 15.00 | 2090 | 3 | 0.71 | | | |
| HALEAKALA EW | HAE | 20 46.00 | 156 15.00 | 2090 | 0 | 1.0 | | | Wood-Anderson |
| HALEAKALA NS | HAN | 20 46.00 | 156 15.00 | 2090 | 0 | 1.0 | | | Wood-Anderson |
| HILO Z | HIL | 19 43.20 | 155 5.30 | 20 | 3 | 1.0 | | | |
| HILO EW | HIE | 19 43.20 | 155 5.30 | 20 | 0 | 1.0 | | | Wood-Anderson |
| HILO NS | HIN | 19 43.20 | 155 5.30 | 20 | 0 | 1.0 | | | Wood-Anderson |
| KIPAPA | KIP | 21 25.40 | 158 .90 | 76 | 3 | 0.56 | | | |
| UWEKAHUNA Z | UWE | 19 25.40 | 155 17.60 | 1240 | 3 | 0.7 | | | |
| UWEKAHUNA Z | USZ | 19 25.40 | 155 17.60 | 1240 | 4 | 1.0 | | | |
| UWEKAHUNA EW | USE | 19 25.40 | 155 17.60 | 1240 | 4 | 1.0 | | | |
| UWEKAHUNA PEZ | | 19 25.40 | 155 17.60 | 1240 | | | | | 15-90 Press Ewing |
| UWEKAHUNA PEE | | 19 25.40 | 155 17.60 | 1240 | | | | | |
| UWEKAHUNA PEN | | 19 25.40 | 155 17.60 | 1240 | | | | | |

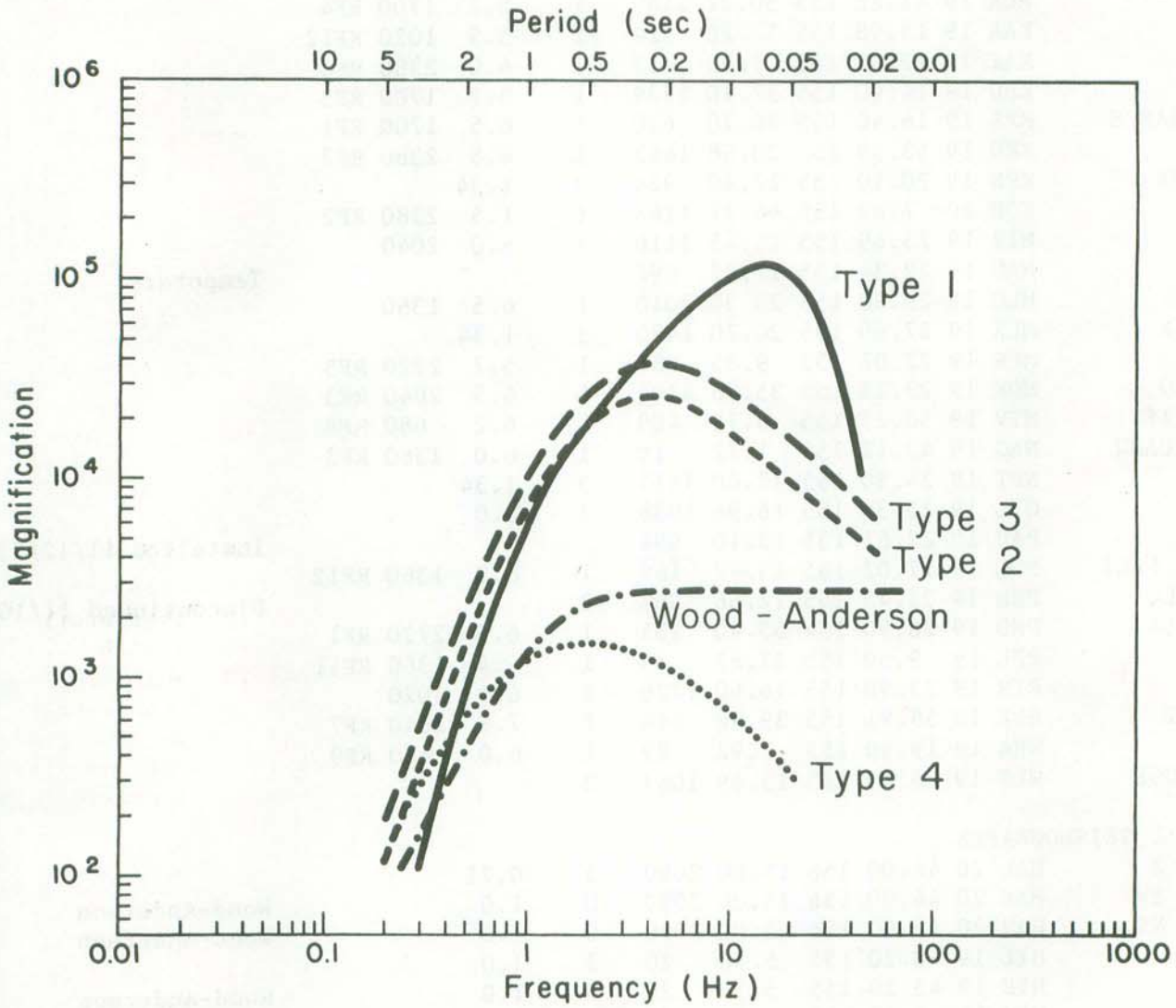


Figure 2.--System response curves for the Wood-Anderson torsion seismograph and for the four different types of seismometer-amplifier (or galvanometer) combinations in use by the Hawaiian Volcano Observatory.

Table 5.--Seismic Instrumentation Types

Type 1. Consists of:

a) EV-17 - Electrotech EV-17 1.0 sec. period moving magnet vertical component seismometer or horizontal component adjusted for an output of 0.5 volts/cm/sec and 0.8 critically damped.

b) Preamp/VCO - Develco Model 6202 voltage controlled oscillator or a USGS/NCER Model JE202. 3 db points for bandpass filter at 0.1 Hz and 30 Hz. Signals are transmitted on audio FM carrier over cable or FM radio link to HVO.

Type 2. Consists of:

a) EV-17 - Electrotech EV-17 1.0 sec. period moving magnet vertical or horizontal component seismometer.

b) 3.5 Hz galvanometer with appropriate shunt resistances for critical damping. System is poorly calibrated.

Type 3. Consists of:

a) EV-17 Electrotech EV-17 (as described above), Hall-Sears HS-10 0.5 sec. period moving coil seismometer or Observatory-built 0.8 sec. period moving coil seismometer with HVO-built solid state seismic preamplifier (voltage gain, 200X), direct signal transmission over cable to HVO and HVO-built solid state amplifier and galvanometer driver, or Observatory-built electromagnetic seismometer with 2 Hz galvanometer. Peak magnification approximately 40,000 at 4 Hz.

Type 4. Consists of:

Sprengnether short period vertical and horizontal seismometers (E-W) with 1.5 sec. galvanometers, coupling factor = 0.25, 2X critically damped. Peak magnification approximately 1500X at 2 Hz.

Experimental type amplifier systems are not given type numbers.

## TILTING OF THE GROUND AROUND KILAUEA CALDERA

Tilting of the ground around the summit of Kilauea is monitored daily by a short-base water-tube tiltmeter in the Uwekahuna Vault, and at irregular intervals it is measured on a regional scale by means of a network of field tilt-bases and a portable water-tube tiltmeter. The attitude of the ground surface at each tilt-base is reported in terms of north-south and east-west tilt coordinates. Both coordinates at each station were arbitrarily set equal to 500 when measurements at that station were begun. Increasing tilt coordinates correspond to northward and eastward tilting of the earth's surface; that is, to a relative subsidence toward the north and east. A one-unit change in coordinate corresponds to a tilting of 1 microradian (1 mm per km) in the direction indicated.

Location of and essential data on each tiltmeter station are listed in Table 8, Summary 69.

Table 6.--Tilt Coordinates at Uwekahuna,
October, November, and December 1973

| Date | N-S | E-W | Date | N-S | E-W |
|---|---|---|---|---|---|
| Oct. 7 | 727 | 296 | Dec. 2 | 722 | 285 |
| 14 | 728 | 293 | 9 | 721 | 283 |
| 21 | 728 | 287 | 16 | 721 | 283 |
| 28 | 728 | 282 | 23 | 722 | 283 |
| Nov. 4 | 728 | 281 | 30 | 721 | 286 |
| 11 | 725 | 293 | | | |
| 18 | 723 | 299 | | | |
| 25 | 723 | 290 | | | |

Table 7.--Tilt coordinates and changes at bases around Kilauea caldera. (See fig. 3)

| Tilt base | Date (1974) | Tilt N-S | Coordinates E-W | Rate ($10^{-6}$ rad/mo) and direction of tilting since last reading | | Date of last reading (1973) |
|---|---|---|---|---|---|---|
| Uwekahuna (U on fig. 4) | 14 Jan | 754.3 | 291.1 | 5.21 | N63.6°W | 26 Sep |
| Tree Molds (TM) | 14 Jan | 584.7 | 478.0 | 2.06 | N25.9°W | 25 Sep |
| Sand Spit (SS) | 15 Jan | 992.3 | 722.2 | 3.04 | S30.6°W | 27 Sep |
| Mehana (M) | 14 Jan | 623.2 | 603.3 | 1.16 | N15.7°E | 25 Sep |
| Keamoku (Kea). | 16 Jan | 762.5 | 237.0 | 2.69 | S 7.7°E | 25 Sep |
| Ahua Kamokukolau (Kam). | 15 Jan | 391.7 | 504.1 | 3.50 | S84.6°W | 27 Sep |
| Kipuka Nene (KN) | 17 Jan | 278.9 | 494.5 | 0.56 | N 7.2°W | 28 Sep |
| Hilina Pali (HP) | 17 Jan | 463.2 | 483.9 | 0.98 | N70.8°E | 28 Sep |
| Kapapala Ranch (Kap). | 16 Jan | 477.4 | 527.7 | 1.08 | S75.8°E | 26 Sep |

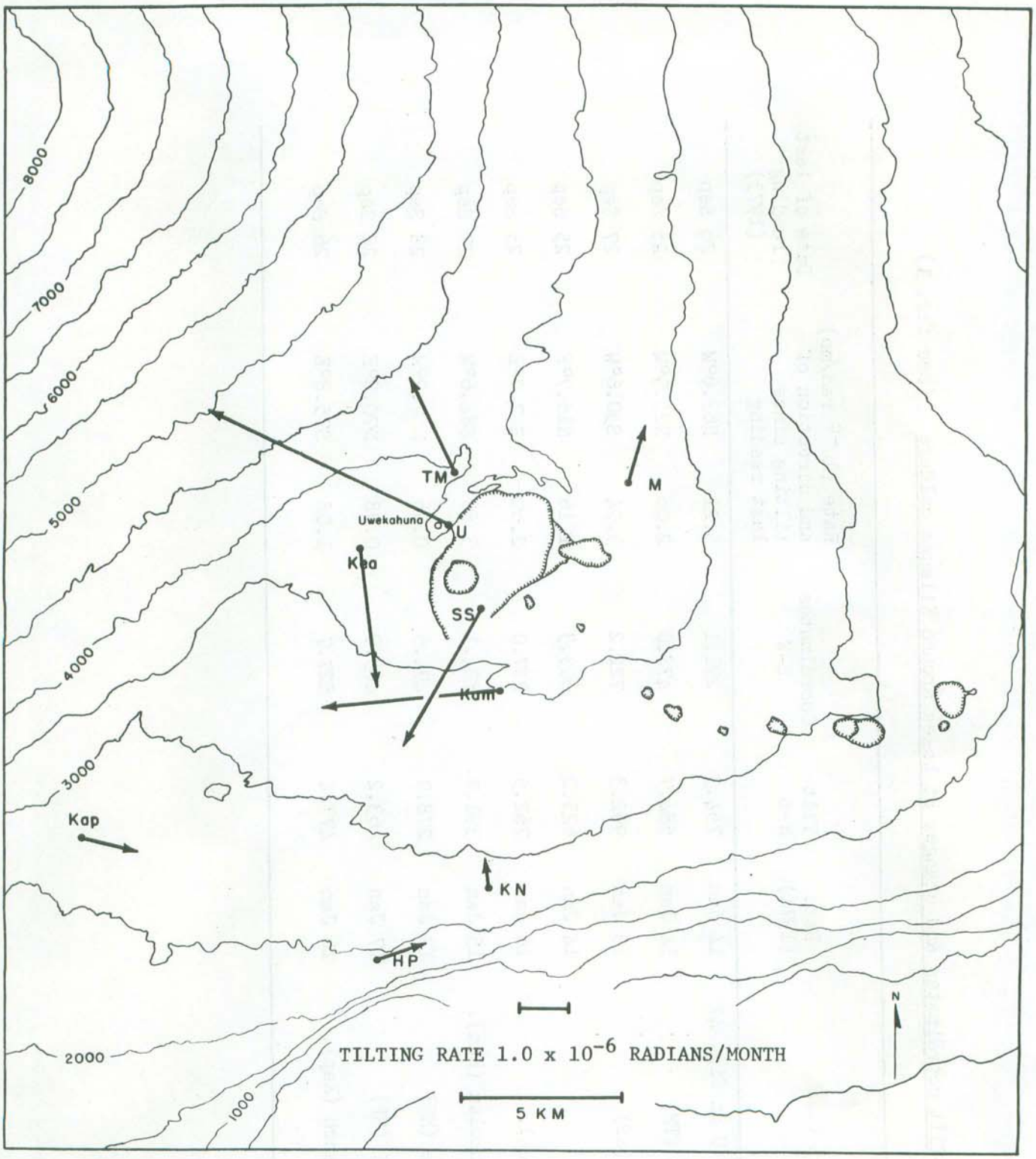


Figure 3.--Tilting of the ground around Kilauea Caldera. The vector depicting tilting at a given tilt base points in the direction of maximum relative subsidence, and its length is proportional to the rate of tilting during the measurement interval. Closed circles represent field tilt bases; open circles, short-base watertube tiltmeters. See Table 7 for explanation of abbreviations.

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