Hawaiian Volcano Observatory
1972 Quarterly Administrative reports

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

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January, February, and March 1972
By Marie S. Onouye, Arnold T. Okamura, and Robert Y. Koyanagi
Chronological Summary By Robert L. Christiansen

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By Akira Yamamoto, John C. Forbes, and Maurice K. Sako
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Summary of Eruptive Events By Donald W. Peterson

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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 65

January, February, and March 1972

By

Marie S. Onouye, Arnold T. Okamura,

and Robert Y. Koyanagi

Chronological Summary

By

Robert L. Christiansen

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CHRONOLOGICAL SUMMARY

The long inflation that followed a summit and southwest-rift eruption in late September 1971 continued through January 1972. High levels of shallow caldera seismic activity accompanied the inflation, and on January 21 a brief but intense earthquake swarm occurred near the intersection of the east rift zone with the caldera rim, near Keanakakoi. Harmonic tremor and a brief deflation with this swarm suggest that it marked the reopening of the east rift zone, which had been inactive since mid-October and which probably had not been connected to the summit magma reservoir system since June 1971.

Eruptive activity resumed on the east rift zone on February 4 or 5 with the quiet reentry of lava into the summit crater of Mauna Ulu. From this slow beginning, the new Mauna Ulu eruption increased in vigor for several days, filling the summit crater to the level of the sill between it and the eastern trench by the morning of February 7. Low fountaining became apparent at a vent within the eastern part of the summit crater, and it became progressively higher as the eruption continued. The lava that cascaded into the eastern trench rose to a sufficient height to force open the old lava tube between the trench and Alae Crater, then flowed through the tube to partly fill the shallow subsidence bowl that earlier had formed in the lava fill above the buried crater.

A talus dam partly blocked flowage through the eastern trench of Mauna Ulu, causing the lava to cascade over the obstruction and then build a rampart across it by spattering and episodic overflow. This dam continued to build higher, ultimately exceeding the elevation of the sill between the trench and the summit crater. The entire fissure trough of Mauna Ulu thus became a single lava lake as eruption continued and the eastern levees grew higher. Circulation and cycles of rising and falling lava-lake levels took on patterns much like those of the active lava-lake periods of the 1969-1971 Mauna Ulu eruption.

A second vent opened within the area of the former trench on February 8 and slowly became the principal source of lava; at the first vent fountaining eventually became inconspicuous as it became higher and more voluminous at the second. The lava level in the main summit crater began to drop, and by February 17 the flow pattern had reversed, lava cascading westward from the trench across the sill into the summit crater. A day later harmonic tremor declined, the summit pool crusted over, and the lava fountain in the trench became progressively lower through February 21, when all surface activity ceased.

Activity resumed on February 24 with a second phase of moderate fountaining from the first-active vent in Mauna Ulu's summit crater (vent A), followed shortly by simultaneous fountaining at the vent in the trench (vent B). Within a day the lava lake filled the entire Mauna Ulu fissure trough and overflowed at several points. A major flow developed that extended around the north side of Kane Nui O Hamo and into Napau Crater before it stopped. Once again, vent B gradually became dominant over vent A, fountaining reaching 60 m or more, and a spatter cone built around vent B to a height of 25 m. Once again, as in the first phase, vent A ceased to erupt actively, and by March 5 the lava level in the former summit crater had dropped more than 30 m so that lava again cascaded westward across the sill between the trench and the crater. Vent B declined shortly later, and by March 9 the lava level in the trench too was below the sill level. By March 10 vent B was only weakly active. A resurgence of activity occurred at both vents in mid-March and began a series of alternating major overflows and drainbacks of the lava lake. New flows covered all of the Mauna Ulu shield except at its westernmost end.

On March 18 a series of shallow local earthquakes occurred, a substantial deflation ensued at the Kilauea summit, and the lava lake drained abruptly by several tens of meters. A new fissure formed on the west flank of the shield and erupted briefly; two new vents broke out in the area of Alae. One vent (vent C) was within the remnant Alae subsidence bowl and rapidly filled it. Overflow and marginal spatter bagan to build levees around the margins of this pond, which soon became an actively circulating lava lake. The vent outside the new Alae lava lake (vent D) fed a flow that cascaded into Makaopuhi Crater. The new vents peaked on about March 20 and died on March 23 or 24. Activity continued in Mauna Ulu, but the lava lake did not rise substantially, as lava apparently continued to drain underground both to Alae and to the west. At times lava could be seen through a hole on the west side of Mauna Ulu to be flowing westward toward the fissure that had erupted briefly on March 18.

When the activity at Alae declined and ceased, the continuing moderate deflation at Kilauea's summit reversed; a slight inflation began even though moderate fountaining and lava-lake activity continued at Mauna Ulu.

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 (1972)	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						
Jan. 1	45m			?	?	?	?	?	?	?		Some Hilina quakes included
2				1	77	1618	38	198	133	6	29	in Offshore PPL
3				2	67	1495	68	267	97	6	62	count.
4					367	1354	44	324	85	6	53	
5	8m			1	76	1408	31	180	40	9	29	
6					?	1249	?	?	?	?	?	
7					56	1728	23	103	42	7	150	
8				2	124	2094	26	178	53	4	41	
9					69	2735	25	161	82	4	19	
10				2	51	2231	10	165	214		31?	Increase of earthquakes
11		5m			482	2967	24	330	286	12	72	near Kokoolau
12					171	3814	38	385	365	11	165	crater.
13	41m			1	79	3069	41	441	267	22	137	
14	10m				69	2569	53	575	188	12	115	
15					76	2112	44	493	138	15	159	
16				1	60	2139	45	437	128	12	85	
17					54	2296	64	398	157	31	112	
18				5	32	2330	34	200	244	6	148	
19	17m	8m			36	2215	24	367	194	3?	25	
20				1	64	3490	24	626	74	5	93	
21				4	69	2428	25	205	209	5	110	
22				2	29	2798	41	191	155	8	101	
23	?			42	93	2426	72	299	212	7	172	
24	?			5?	69?	699?	35?	142?	173?	2?	45	
25	100m	13m		4	51	1610	36	192	188	4	67	
26		5m		11	26	2295	61	170	329	2	69	
27	39m			8	106	2329	16	1190?	15	10	24	Several rock-falls at Mauna
28				1	64	3044	21	395	497	22	120	Ulu.
29				5	78	2677	36	421	217	17	131	
30				3	34	2235	42	214	142	4	59	
31				4	37	1369	34	213	12	3	71	

Sporadic weak tremor on the upper east rift and summit region throughout the month.

Date (1972)	Tremor (m = minutes h = hours)			Earthquakes								
				Kilauea Summit			SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	Offshore Puu Pili	Remarks
	Deep	Intermediate	Shallow	30 KM	Long Period	Shallow						
Feb. 1		?		4	65	1630	37	157	59	6	41	
2	44m				43?	1820?	31?	233?	157?	8	79?	
3				18	118	1876	26	610?	164	10	76	
4				4?	16?	926?	19?	?	49?	?	?	Upper East Rift quakes masked by tremor.
5			Renewal of low level tremor on the upper east rift throughout the month.	3	14	1391	20	123	50	3	31	
6	25m				3?	699?	20?	36	19?		98?	
7				1	2?	695?	13?	56?	43?		39	
8				3	5	1096	28	19	57	15	208	
9					9	820	24	28	16		135	
10				3	2	977	7	18	35	7	89	
11					11	881?	8?	6	24	28	38?	
12				2	2	669?	15	9	24	5	56	
13	24m				3	741?	12	3	11	4	56?	
14					2	508	15	25	12		40	
15				1	6	819	28	22	3		97	
16					7	740	17	22	4		125	
17					14	1085	106	46	9	2	79	
18					19	850	16	49	23	1	76	
19					9	973	8	66	39		71	
20				1	27	941	15	77	42	1	146	
21				?	12?	261?	5?	22?	12?	3?	22?	
22				5?	6?	473?	9?	25?	11?	2?	44?	
23					17	1315	8	44	32		97	
24	8m				?	688	9	20	45	4	55	
25				1		483	10	4	20		75	
26				2	8	451	10	2	23	6	52	
27					2	262?	15?	5	25	15	37	
28				1	1	369	8	6	15	4	63	
29				2	15	444?	8?	19	11?	13	25	

Date (1972)	Tremor (m = minutes h = hours)			Earthquakes								
				Kilauea Summit			SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	Offshore Puu Pili	Remarks
	Deep	Intermediate	Shallow	30 KM	Long Period	Shallow						
Mar. 1				1	60	471	14	14?	5	2	22	
2					64	502	16	13?	14		97	
3					157	483	17	29?	11	7?	21	
4					40?	234?	5?	5?	14?	1	27	
5		4m		1	88	395	19	10?	22	1	33	
6	?				27	536	13	53	13		70	PHH adjusted.
7					62	610	32	39	7	2	97	
8					35	607	19	25	19	4	96	
9				1	35	732	8	27	11	4	89	
10	34m			4	15	707	28	29	33	4	56	
11				3	8	634	25	10	19		71	
12				3	3	672	32	14	19	3	66	
13					19	740	10	27	11	1	41	
14				2	10	644	25	28	14	1	101	
15					13	698	27	29	25	1	64	
16				4	38	682	18	25	12		72	
17	40m				44	812	7	51	16	4	19	
18				1	3	661?	9	697?	23		13	
19					1	360?	8	27	2?		38	
20					1500?	201?	29	33	1?		38	Very small LP quakes.
21					2000?	394?	34	30?	6?		36	
22					144?	292?	23	128	8?	5	21	
23					105?	419	13	27	10	1	28	
24	33m				146	657	52	36	27	2	52?	
25					38	754	15	70	26	2	86	
26				10	12	329	21	45	6	1	46	
27					114?	630?	47	74	21	4	24?	
28				1	172	533	38	26	21	4	21	
29				1	119	537	37	29	18	5	148?	
30					128	553	37	30	17	17	31?	
31				2	114	586	33	81	13	11	91?	

Low to moderate tremor on the upper east rift throughout the month.

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

1972		HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN	1	0	48	0.6	19-19.0	155-13.6?	0.0	1.6	18	195	6.6	7.76	1.3	14.6	0.27	C
	1	0	54	41.4	19-19.5	155-15.3	6.5	2.0	21	163	3.8	0.10	0.8	0.6	0.17	D
	1	1	32	55.0	18-49.2	155-19.3	1.7*	2.6	20	264	40.4	0.48	3.0		0.17	D
	1	5	17	56.2	19-18.6	155-15.0	6.3	1.5	18	204	5.0	0.14	0.9	0.6	0.17	C
	1	6	7	21.8	19-18.5	155-15.3	9.0	1.2	15	205	4.8	0.11	0.8	1.4	0.10	C
	1	8	18	29.6	19-23.3	155-14.7	2.2*	1.2	9	106	2.6	0.04	0.3		0.05	B
	1	8	19	6.3	19-23.8	155-15.9?	3.6	1.2	7	119	2.0	0.28	1.5	9.4	0.18	C
	1	13	16	3.4	19-17.9	155-22.9	3.2	2.2	10	164	4.4	0.24	1.8	2.2	0.27	C
	1	15	55	46.6	19-17.1	155- 6.9?	0.0	2.5	10	288	18.5	0.63	3.2	1.0	0.22	D
	1	18	46	8.6	19-21.5	155-28.2	2.7	2.8	13	60	8.8	0.14	1.0	1.5	0.24	C
	2	7	59	7.3	19-13.2	155-33.3	5.6	2.9	21	91	7.3	0.14	1.0	1.0	0.24	C
	2	10	13	8.4	19-23.2	155-14.6	3.0	0.8	10	104	2.7	0.06	0.2	1.1	0.04	A
	2	10	18	49.3	19-19.8	155-15.6	7.7	1.6	17	140	3.3	0.05	0.5	0.3	0.10	B
	2	11	8	56.7	19-19.8	155- 7.5	8.0*	1.5	13	171	5.9	0.12	1.1		0.12	C
	2	11	55	27.9	19-24.1	155-16.4	3.3	0.6	11	64	1.7	0.08	0.3	0.9	0.07	A
	2	12	31	40.3	19-20.1	155- 8.9	8.8	1.5	15	165	4.0	0.08	0.7	1.4	0.09	B
	2	13	4	24.1	19-24.1	155-16.0	1.8	0.7	7	107	2.0	0.06	0.4	0.3	0.07	B
	2	14	20	3.8	18-52.9	155-16.8?	14.8*	1.9	13	259	36.2	0.35	2.4		0.18	D
	2	15	46	33.6	19-23.8	155-15.4	3.2	0.9	12	79	2.5	0.13	0.6	1.9	0.13	B
	2	16	12	39.6	19-14.3	155-22.1	1.7	1.1	13	172	9.0	2.31	1.0	8.5	0.19	C
	2	17	25	22.5	19-16.8	155-21.8	3.8	1.8	18	138	6.0	0.11	0.9	1.3	0.19	C
	2	18	1	23.2	19-18.8	155- 8.5	8.0*	0.6	11	187	6.5	0.19	1.5		0.18	C
	2	18	34	30.6	19-23.8	155-25.6	8.0*	1.0	19	149	7.7	0.11	0.8		0.16	C
	2	19	55	11.3	19-19.9	155-16.1	6.3	0.8	17	137	2.4	0.07	0.6	0.5	0.13	B
	2	20	1	39.7	19-19.8	155-10.7	9.0	0.6	13	166	4.3	0.07	0.6	1.1	0.07	B
	2	21	30	24.3	19-18.3	155-14.3	8.0*	2.2	20	153	6.3	0.07	0.6		0.14	C
	2	21	33	42.8	19-18.7	155-14.5	8.0*	1.0	15	181	5.7	0.10	0.7		0.12	C
	2	21	35	36.3	19-24.3	155-25.9	8.0*	1.0	15	155	8.8	0.06	0.5		0.08	C
	2	22	26	36.7	19-24.6	155-16.3	0.2	0.1	7	91	1.3	0.07	0.2	0.2	0.06	B
	2	23	11	56.9	19-23.7	155-14.8	3.8	0.8	13	90	1.9	0.07	0.3	0.9	0.09	A

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN	3	2	38 27.9	19-23.2	155-14.7	2.1*	0.4	9	109	2.6	0.04	0.3		0.06	B
	3	2	50 42.9	20- 2.5	155-38.9?	33.0*	1.6	14	271	36.1	0.27	1.9		0.09	D
	3	2	55 41.5	19-18.2	155-23.4	7.2	1.1	16	113	3.7	0.06	0.7	0.4	0.11	B
	3	3	35 26.9	19-48.8	155-39.8	14.8*	1.6	12	108	21.7	0.18	1.9		0.27	C
	3	3	59 18.8	19-18.7	155-17.5	29.8	1.8	22	142	2.5	0.12	0.7	1.2	0.11	B
	3	4	51 52.8	19-24.0	155-15.7	1.9	0.6	8	125	2.5	0.04	0.2	0.2	0.05	B
	3	5	7 3.4	19-20.3	155- 6.9	8.0*	1.1	15	162	6.1	0.12	1.0		0.14	C
	3	5	27 5.6	19-19.4	155-15.4	6.3	0.8	14	181	3.7	0.12	0.8	0.7	0.12	C
	3	7	14 19.7	19-20.9	155-19.2	4.0	0.7	10	90	3.5	0.09	0.3	1.4	0.04	A
	3	7	16 40.2	19-21.9	155-18.1	5.1	0.8	13	71	3.5	0.07	0.4	0.6	0.10	A
	3	7	51 32.8	18-55.6	155-24.6	10.5	1.9	12	243	26.3	0.40	2.7	2.5	0.16	D
	3	9	43 3.7	19- 9.2	155-15.6	9.3	1.4	18	224	17.1	0.14	0.9	1.8	0.08	C
	3	10	50 2.6	19-20.3	155-19.0	6.2	1.1	16	73	2.8	0.04	0.3	0.4	0.09	A
	3	12	19 19.1	18-43.3	155-16.2	8.0*	2.5	20	280	50.7	0.64	4.0		0.16	D
	3	12	46 14.8	18-47.4	155-17.3	8.0*	2.3	20	269	44.9	0.61	3.9		0.21	D
	3	14	31 20.7	19-11.2	155- 4.6	36.7	1.9	15	239	16.3	0.15	0.9	1.2	0.05	C
	3	17	51 55.5	19-15.9	155-21.4	4.1	2.8	23	147	8.6	0.12	0.8	0.9	0.22	C
	3	19	40 45.6	19-23.5	155- 3.0	0.1	1.9	13	120	6.6	6.02	1.0	11.5	0.21	C
	3	21	4 27.8	19-17.1	155-14.1	6.0	2.4	16	205	8.0	0.24	1.3	1.0	0.16	C
	3	21	35 33.5	19-17.9	155-14.3	5.8	1.6	16	216	6.7	0.18	1.1	0.7	0.16	C
	3	21	36 16.0	19-18.8	155-14.6	4.6	1.2	15	204	5.5	0.17	1.0	1.0	0.17	C
	3	21	45 59.4	19-18.4	155-14.3	6.3	1.0	18	211	6.2	0.15	1.0	0.6	0.15	C
	3	21	47 30.3	19-23.2	155-25.9	7.9	1.6	18	71	7.2	0.10	0.6	0.8	0.12	B
	3	21	49 2.0	19-17.9	155-14.1	6.2	1.6	18	218	7.0	0.19	1.1	0.7	0.16	C
	3	21	59 11.6	19-26.6	155-13.5	32.2	1.9	13	235	3.9	0.41	2.2	2.9	0.11	C
	3	22	22 36.9	18-48.3	155-20.5	2.1*	2.6	24	268	39.3	0.52	3.3		0.17	D
	3	22	39 33.7	19-16.4	155-22.7	0.4	1.7	18	135	7.0	5.32	0.8	10.1	0.19	C
	3	22	40 35.6	19-15.9	155-22.0?	0.0	1.8	18	159	8.2	5.34	0.7	10.2	0.17	C
	3	23	12 28.0	19-16.0	155-22.0	2.3	1.7	18	159	8.1	0.11	0.8	1.2	0.19	C
	3	23	40 18.2	19-17.0	155-22.9	5.8	1.8	15	146	6.0	0.11	1.0	0.9	0.18	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN	3	23	56 34.0	19-23.2	155-14.3	3.9	0.9	13	102	2.7	0.03	0.2	0.4	0.06	A
	4	1	50 29.3	19-23.5	155-25.4	2.7	1.6	17	68	7.2	0.11	0.8	1.7	0.24	C
	4	1	59 51.7	19-15.5	155-14.3	0.6*	1.2	10	265	13.1	0.86	3.6		0.24	D
	4	2	18 47.7	19-19.4	155-11.7	4.8	1.6	19	172	5.9	0.13	0.8	0.8	0.19	C
	4	5	37 26.3	19-19.2	155-46.7	6.2	1.9	15	243	18.5	0.59	2.6	2.0	0.15	D
	4	5	43 34.0	18-46.0	155-13.3	8.0*	2.8	14	273	50.4	0.75	4.8		0.17	D
	4	7	0 33.7	19-20.5	155-11.0	8.3	2.7	18	156	3.5	0.07	0.6	0.4	0.09	C
	4	7	8 35.6	19-23.5	155-14.6	2.3*	0.7	9	107	2.3	0.08	0.6		0.11	B
	4	11	36 35.1	19-10.9	155-27.1	35.5	2.7	22	146	2.9	0.23	1.1	2.2	0.13	B
	4	12	8 55.4	19-23.0	155-14.7	3.0	1.4	15	112	2.4	0.06	0.4	0.8	0.12	B
	4	17	50 57.6	19-23.8	155-25.0?	0.0	1.3	15	106	7.2	9.75	0.9	18.6	0.20	C
	4	20	40 0.9	18-50.9	155-20.3	8.8	2.6	20	263	36.9	0.57	3.4	2.9	0.19	D
	4	21	57 8.6	19-20.4	155-12.1	4.3	0.1	13	195	3.8	0.21	1.2	1.1	0.20	C
	5	0	37 9.5	18-52.3	155- 8.9	18.6*	2.2	15	312	50.4	0.41	3.0		0.12	D
	5	1	13 6.0	18-54.8	155-18.6	11.4*	2.2	20	250	31.6	0.36	2.4		0.17	D
	5	1	36 11.8	19-17.6	155- 0.1	8.0*	1.9	12	242	6.5	0.30	2.1		0.12	D
	5	2	6 31.7	19- 9.2	155-15.1	2.7	2.0	20	225	17.3	0.29	1.3	1.1	0.17	C
	5	3	1 2.9	19-15.8	154-59.7	5.4	1.8	13	253	9.5	0.79	3.7	2.1	0.16	D
	5	3	8 8.0	19-25.8	155-27.3?	7.5	1.3	17	71	10.2	0.08	0.7	0.6	0.15	C
	5	5	35 3.8	19-16.4	155-22.7	3.8	1.7	15	185	7.0	0.16	1.1	1.2	0.20	C
	5	9	2 24.2	19-19.4	155-13.5	5.5	1.7	17	167	5.9	0.14	0.9	0.9	0.21	C
	5	10	33 38.1	19-10.1	155-20.5	43.4	1.5	15	208	12.9	0.60	2.7	4.9	0.14	C
	5	11	25 27.6	18-46.3	155-15.7	8.0*	2.6	12	290	47.9	0.52	3.4		0.09	D
	5	22	55 23.8	19-22.6	155-23.8	2.4	1.4	14	148	4.6	0.13	0.8	1.7	0.17	B
	5	22	57 51.8	19-22.7	155-24.3	5.9	1.8	21	52	5.0	0.07	0.7	0.8	0.19	B
	6	0	9 44.8	19-18.5	155-13.6	6.4	1.6	19	198	7.3	0.16	1.0	0.7	0.18	C
	6	0	12 43.4	19-18.9	155-13.9	6.2	1.2	15	208	6.6	0.18	1.1	0.7	0.17	C
	6	2	47 25.0	18-52.8	155- 9.9	7.8	1.8	23	259	44.1	0.40	2.6	3.5	0.15	D
	6	6	38 52.1	19-18.5	155-13.6?	6.1		17	199	7.3	0.17	1.0	0.7	0.18	C
	6	11	32 25.0	19-19.6	155-15.2	6.0	0.7	14	179	4.0	0.10	0.6	0.6	0.10	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN	6	16	44	15.3	19-16.0	155-22.2	0.6*	1.7	16	141	7.3	0.12	1.0		0.25	C
	6	23	9	3.6	18-49.8	155-17.9	1.2*	3.0	27	263	40.4	0.43	2.8		0.18	D
	7	1	49	18.3	19-24.2	155-25.4	4.0	1.9	21	72	8.3	0.10	0.8	1.1	0.25	C
	7	2	16	22.4	18-46.5	155-17.4	8.0*	2.3	19	272	45.7	0.56	3.6		0.17	D
	8	2	20	30.9	19-23.7	155-24.1	8.0*	1.2	11	199	6.6	0.11	0.7		0.09	C
	8	8	10	46.3	19-19.7	155-15.6	6.4	0.7	14	174	3.3	0.11	0.7	0.6	0.12	C
	8	8	30	24.1	19- 9.9	155-36.1	3.2	1.6	14	105	9.4	0.13	1.0	1.2	0.21	C
	8	9	52	8.3	19-20.7	155- 9.2	8.4	2.1	17	140	2.8	0.07	0.7	1.4	0.11	B
	8	13	49	26.9	18-44.8	155-17.9	8.0*	2.6	16	276	46.7	0.53	3.4		0.12	D
	8	14	13	26.2	19-23.7	155-26.0	7.8	1.2	19	130	8.1	0.09	0.7	0.5	0.15	B
	8	15	27	16.2	19-25.1	155-14.1	30.8	2.8	28	58	0.8	0.11	0.6	1.1	0.11	B
	8	16	32	3.4	18-49.5	155-16.3	1.9*	2.1	14	264	42.1	0.42	2.8		0.14	D
	8	16	34	39.0	19-25.2	155-13.7	29.4	1.5	25	83	1.4	0.11	0.7	1.1	0.11	B
	8	20	15	4.2	19-22.2	155-23.0	5.1	1.0	14	143	3.7	0.12	0.9	1.0	0.19	C
	8	23	32	37.5	19-19.4	155-13.9	8.0*	1.0	11	196	6.0	0.10	0.8		0.10	C
	9	2	17	45.3	19-19.6	155- 9.8	8.1	0.9	14	172	4.6	0.08	0.7	1.5	0.08	B
	9	3	23	7.7	19-21.3	155- 1.9?	11.2	1.6	13	167	3.1	0.14	1.1	1.4	0.12	C
	9	4	10	44.8	19-19.9	155- 9.1	7.7	0.7	12	168	4.2	0.11	1.0	0.6	0.13	C
	9	7	39	28.2	19-19.6	155-10.5	8.8	1.0	13	170	4.7	0.08	0.6	1.3	0.08	B
	9	8	0	24.9	18-53.8	155-10.6	12.3*	3.4	28	255	41.9	0.34	2.2		0.15	D
	9	8	5	23.3	18-53.5	155- 9.8	8.0*	2.1	22	257	43.4	0.32	2.1		0.13	D
	9	15	32	3.9	19-25.1	155-16.4	2.0	0.6	9	114	1.1	0.05	0.4	0.2	0.07	A
	9	15	38	22.2	19-24.7	155-16.3	1.6	0.8	8	99	1.2	0.04	0.3	0.2	0.05	A
	9	16	19	59.3	19-19.9	155- 7.4	8.0*	1.4	12	170	5.9	0.14	1.4		0.19	C
	9	16	23	0.9	19-24.3	155-17.3	1.2	0.3	7	97	1.3	0.06	0.3	0.3	0.07	B
	9	17	30	6.0	19-24.1	155-15.9	1.8	0.5	8	63	2.3	0.05	0.3	0.3	0.08	A
	9	19	0	43.1	19-25.1	155-16.9	1.3	2.6	19	120	0.4	0.07	0.4	0.3	0.13	B
	9	20	11	15.1	18-56.0	155-21.0	8.7	2.2	12	295	27.6	1.28	6.5	3.7	0.15	D
	9	23	18	40.5	19-25.0	155-16.4	1.1	0.4	9	110	1.0	0.06	0.3	0.3	0.09	A
	10	0	2	46.2	19-26.2	155-15.6?	0.3	0.8	9	205	1.3	0.63	0.8	1.3	0.15	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 10	2	17	3.1	19-24.5	155-16.3	0.8	0.5	12	84	1.4	0.05	0.2	0.3	0.09	A
10	2	22	24.4	19-24.2	155-15.9	1.6	0.7	10	71	2.4	0.07	0.4	0.4	0.09	B
10	3	9	11.0	19-24.0	155-15.6	4.0	2.0	13	81	2.6	0.08	0.4	0.9	0.08	B
10	3	28	27.4	19-25.6	155-16.6	2.1	0.4	10	126	1.5	0.06	0.4	0.2	0.08	B
10	5	38	14.1	19-18.6	155-16.1?	8.4	0.9	10	195	3.5	0.20	1.6	0.8	0.18	C
10	6	21	49.2	19-18.8	155-19.1	29.1	1.3	20	71	1.7	0.14	0.9	1.5	0.10	A
10	6	32	48.7	19-24.6	155-15.5?	2.1	0.3	11	74	1.6	0.15	0.8	1.9	0.17	B
10	7	36	16.1	19-13.0	155- 2.5?	38.6	1.6	18	244	12.8	0.29	1.7	2.2	0.10	C
10	8	50	20.4	19-24.5	155-16.9	0.6	0.2	8	73	0.8	0.10	0.2	0.2	0.07	A
10	9	56	1.7	19-25.2	155-17.0	1.9	0.6	10	121	0.6	0.08	0.5	0.3	0.13	B
10	10	13	5.0	19-25.6	155-14.4	31.1	1.3	21	95	1.8	0.10	0.6	1.0	0.08	A
10	14	47	38.7	18-44.9	155-16.9	8.0*	3.8	26	276	47.9	0.55	3.5		0.16	D
10	14	50	15.8	19-19.4	155- 8.7	8.0*	1.8	15	176	5.4	0.10	0.7		0.11	C
10	15	41	49.9	19-15.6	155-17.4	53.6	2.5	23	159	4.9	0.45	1.8	3.9	0.15	C
10	19	53	14.9	19-20.1	155- 8.9	7.6		16	165	4.0	0.10	0.9	0.5	0.14	C
10	21	5	58.8	19-25.7	155-16.6	2.7	0.8	7	206	1.6	0.22	0.9	1.5	0.07	B
10	21	27	37.3	19-23.4	155-14.6	3.4	0.8	9	108	2.4	0.21	0.6	2.4	0.10	B
10	22	44	32.3	19-23.3	155-14.5	2.9	0.9	9	109	2.6	0.17	0.6	3.5	0.10	B
11	0	2	42.9	19-23.3	155-14.8	1.6	1.1	10	104	2.6	0.09	0.5	0.4	0.13	B
11	3	48	26.7	18-51.1	155-19.5	10.8*	1.8	15	263	37.0	0.44	2.9		0.15	D
11	4	34	45.1	19-23.8	155-15.4	1.7	0.8	9	148	2.5	0.07	0.4	0.3	0.08	B
11	4	36	25.8	18-48.9	155-17.4	8.0*	2.9	19	271	42.2	0.47	3.1		0.15	D
11	6	9	15.4	19-23.6	155-14.6	3.8	0.3	13	92	2.0	0.06	0.3	0.8	0.07	A
11	8	7	39.2	19-23.0	155-14.8	2.5	0.6	10	111	2.3	0.08	0.3	1.4	0.07	A
11	8	29	43.0	18-51.4	155-16.4?	3.6	2.6	19	299	39.0	1.86	10.9	9.3	0.14	D
11	10	28	59.4	19-25.6	155-16.6	2.1	0.6	11	151	1.4	0.05	0.4	0.2	0.08	B
11	10	31	29.7	19-22.0	155-18.4	2.0*	1.0	12	76	3.7	0.04	0.3		0.08	B
11	12	43	6.0	19-25.6	155-16.5	2.4	0.9	12	126	1.5	0.04	0.3	0.8	0.06	B
11	13	47	44.9	19-25.6	155-16.5	2.1	0.9	10	126	1.5	0.05	0.3	1.2	0.06	B
11	14	53	28.8	19-22.6	155- 3.5?	0.0	1.4	20	111	5.0	5.21	1.7	10.1	0.34	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 11	16	53	4.5	19-23.8	155-14.8	3.9	1.2	13	88	1.8	0.06	0.3	0.7	0.08	A
11	17	58	24.2	19-23.6	155-14.6	3.6	0.6	13	91	2.0	0.09	0.4	1.1	0.10	A
11	18	1	39.6	19-23.0	155-14.2	4.2	1.1	15	109	2.9	0.09	0.6	0.9	0.12	B
11	19	12	44.6	19-17.9	155-16.4?	9.2	1.3	11	217	3.9	0.27	1.6	2.3	0.14	C
11	23	27	45.1	19-22.0	155-17.9	4.3	1.1	11	75	3.1	0.12	0.5	1.5	0.11	B
12	0	10	29.0	19-23.6	155-15.1	2.1	1.0	10	94	2.3	0.09	0.4	0.4	0.07	A
12	0	17	25.1	19-23.5	155-26.2	5.5	1.0	16	104	7.9	0.14	1.1	1.5	0.22	C
12	3	29	14.5	19-19.2	155-13.8	8.0	2.2	23	145	6.3	0.08	0.6	0.4	0.14	C
12	3	55	33.0	19-23.6	155-15.2	4.0	1.2	14	91	2.5	0.09	0.4	1.1	0.10	B
12	4	59	54.4	19-22.9	155-22.6	8.0*	1.6	11	143	5.2	0.12	1.0		0.16	C
12	6	3	50.8	19-13.6	155-21.3?	0.0	1.8	20	160	9.4	5.88	1.2	11.1	0.28	D
12	6	25	55.1	19-22.5	155-14.9	6.9	1.0	11	123	1.7	0.53	1.2	4.0	0.20	C
12	6	41	57.2	19-20.1	155- 7.3?	0.8	1.7	19	203	5.7	1.40	1.4	4.9	0.21	C
12	7	22	56.1	19-23.3	155-14.6	3.5	1.0	11	101	2.6	0.08	0.4	1.1	0.07	A
12	8	7	4.0	19-24.0	155-15.6	3.0	0.9	13	70	2.5	0.09	0.4	1.6	0.10	B
12	13	35	0.7	19-19.4	155-13.1	6.1	1.6	21	168	5.8	0.11	0.7	0.6	0.18	C
12	17	32	8.6	19-14.4	155-21.9?	0.0	1.6	21	155	8.7	5.60	1.1	10.6	0.28	C
12	18	59	42.5	19-23.6	155-14.7	3.3		10	97	2.2	0.13	0.5	1.7	0.09	A
12	20	34	16.9	18-48.1	155-17.9	8.0*	2.6	23	267	43.2	0.37	2.4		0.13	D
12	21	25	13.6	19-18.0	155-13.8	2.6	2.4	25	154	7.5	0.13	0.7	0.9	0.20	C
12	21	31	15.0	19-19.2	155-12.4	3.2	1.9	24	150	6.0	0.14	0.9	1.1	0.25	C
12	22	9	7.3	19-19.9	155-11.3	4.9	1.5	22	164	4.7	0.13	0.9	0.8	0.23	C
12	23	54	24.2	19-22.9	155-14.4	4.3	0.8	15	116	2.8	0.06	0.4	0.6	0.08	B
13	1	22	10.3	19-23.2	155-14.9	3.5	0.0	11	104	2.3	0.06	0.2	0.8	0.05	A
13	1	25	26.1	19-23.1	155-15.1	2.6	2.0	24	108	1.8	0.07	0.5	0.8	0.20	B
13	2	7	57.4	19-22.3	155-17.9	3.3	1.3	16	75	2.6	0.03	0.3	0.5	0.08	A
13	4	4	16.1	19-21.8	155-24.9	8.3	1.3	19	61	4.0	0.07	0.6	0.5	0.15	B
13	5	8	56.8	19-25.4	155-16.7	3.0	1.0	14	123	1.1	0.06	0.4	0.6	0.09	B
13	6	44	5.4	18-48.4	155-17.4	8.0*	3.1	25	267	43.0	0.45	3.0		0.17	D
13	6	47	18.2	18-52.0	155-19.5	8.0*	2.0	20	260	35.4	0.25	1.6		0.10	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 13	8	3	58.4	19-23.4	155-15.0?	0.4	0.8	10	99	2.4	0.21	0.5	0.5	0.17	B
13	8	6	26.9	19-19.1	155-13.3	5.3	1.6	21	150	6.3	0.11	0.8	0.7	0.18	C
13	8	25	19.2	19-20.4	155-12.2	8.3	2.1	18	141	3.9	0.07	0.6	1.3	0.11	B
13	13	22	37.4	19-22.8	155-22.8	8.0*	1.5	17	116	4.9	0.10	0.8		0.18	B
13	13	57	42.9	19-18.8	155-13.1?	0.6	0.7	16	194	6.8	3.51	1.4	6.6	0.29	C
13	13	59	32.2	18-47.8	155-17.4	8.0*	4.3	27	268	44.0	0.34	2.2		0.13	D
13	16	23	2.3	19-25.3	155-24.9	8.0*	1.2	16	64	8.4	0.04	0.3		0.08	C
13	18	16	9.0	19-19.7	155-10.9	4.9	1.4	17	169	4.8	0.16	1.1	1.0	0.24	C
13	18	44	19.3	19-21.9	155- 7.0?	0.1	1.5	19	132	5.1	0.13	1.3	2.0	0.22	C
13	20	7	51.3	18-46.8	155-17.3	8.0*	3.0	26	271	45.6	0.44	2.9		0.15	D
14	0	29	16.2	18-47.9	155-20.6	1.3*	2.7	26	269	39.6	0.45	2.9		0.17	D
14	0	40	6.0	19-53.3	155-31.7	30.7	2.1	16	134	13.9	0.17	1.0	2.2	0.10	B
14	3	24	24.9	19-31.0	155-54.4	9.5	2.6	23	110	1.6	0.12	1.2	1.2	0.17	B
14	3	31	42.4	19-19.5	155-12.2	2.6	1.2	21	169	5.6	0.14	0.8	1.1	0.23	C
14	4	41	44.6	18-51.6	155-19.6	8.6	2.6	23	257	36.1	0.43	2.6	2.5	0.18	D
14	7	3	9.0	18-52.9	155-17.0	8.2	2.4	13	287	36.1	0.79	4.4	2.8	0.12	D
14	11	55	33.6	19-20.2	155- 7.2?	2.2	2.1	19	163	5.8	0.26	0.8	0.8	0.19	C
14	12	16	29.7	19-23.8	155-14.8	3.2	1.1	12	89	1.9	0.07	0.4	1.6	0.09	A
14	12	23	39.2	18-46.9	155-16.8	8.0*	3.0	16	277	46.1	0.56	3.6		0.14	D
14	14	35	40.7	19-22.4	155-23.1	8.0	2.1	20	93	4.0	0.06	0.6	1.2	0.15	B
14	14	48	26.1	19-17.1	155-22.8	3.6		16	131	5.9	0.08	0.8	1.0	0.18	B
14	16	26	49.9	19-22.1	155-23.4	7.7	1.8	15	153	3.6	0.09	0.7	0.4	0.12	C
14	16	33	10.0	19-23.3	155-14.7	4.8	1.1	13	102	2.7	0.10	0.4	1.0	0.09	A
14	22	28	3.7	19-24.9	155-23.4?	8.2	1.4	21	60	6.8	0.07	0.6	0.5	0.15	B
14	22	29	7.4	19- 9.8	155-41.3	3.2	2.7	21	128	11.9	0.12	0.8	0.8	0.16	C
15	3	45	12.6	19-18.8	155-15.5	6.0	1.5	22	168	4.1	0.11	0.8	0.6	0.18	C
15	4	30	24.9	19-23.4	155- 3.0	2.1	2.2	25	120	6.4	0.48	0.8	1.7	0.21	C
15	4	56	35.7	19-23.3	155-15.2	0.6	0.7	13	103	2.0	0.81	0.3	1.7	0.12	B
15	5	35	7.5	18-52.6	155-16.6?	0.0	2.4	23	255	36.9	0.41	2.2	1.0	0.18	C
15	7	31	1.4	19-22.6	155-24.4	8.1	1.3	21	52	4.7	0.07	0.6	0.5	0.14	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN	15	12	2 12.3	19-21.0	155- 6.3	8.0*	1.7	14	147	6.2	0.11	1.1		0.14	C
	15	13	52 59.2	19-23.6	155-14.9	2.5	0.1	12	95	2.2	0.09	0.5	2.2	0.11	B
	15	13	56 51.9	19-13.2	155-32.9	31.1		22	77	8.1	0.22	1.1	2.5	0.14	B
	15	14	13 55.1	19-13.5	155-33.1	30.7	2.3	27	75	7.4	0.20	1.0	2.3	0.17	B
	15	14	57 28.4	19-13.8	155-33.8	34.1	1.5	14	103	6.2	0.22	1.0	2.4	0.08	B
	15	16	52 6.3	19-15.2	155- 0.4	34.2	1.1	24	221	9.8	0.24	1.4	1.9	0.12	C
	16	2	55 59.8	19-15.4	155-22.9?	0.0	1.3	18	141	8.8	4.43	0.8	8.4	0.19	C
	16	3	45 56.0	19-18.7	155-21.3?	1.9	1.2	15	108	4.5	0.07	0.4	0.8	0.11	B
	16	4	1 18.9	19-18.9	155- 8.4	2.9	2.0	23	163	6.3	0.16	0.9	1.0	0.23	C
	16	4	11 29.6	18-48.3	155-15.5?	0.2	2.7	22	268	44.7	0.36	2.8	1.1	0.15	D
	16	4	22 30.9	20- 1.0	155-18.2	8.6	1.9	19	232	14.6	0.49	2.7	2.8	0.16	D
	16	15	1 59.4	19-19.6	155-11.9	5.5	2.0	22	148	5.4	0.11	0.8	0.7	0.21	C
	16	18	25 59.4	19-16.1	155-22.8	3.7	1.9	23	137	6.9	0.09	0.7	0.8	0.20	B
	16	18	54 51.4	19-15.2	155-23.7?	0.0	1.0	14	207	9.2	7.22	1.6	13.6	0.25	C
	16	21	10 53.5	19-19.7	155-15.2	5.7	1.7	22	140	4.0	0.07	0.5	0.5	0.15	B
	16	21	17 14.0	19-19.4	155-15.1	6.8	1.6	22	143	4.1	0.07	0.5	0.4	0.13	B
	16	23	20 27.1	18-52.0	155-16.5	3.9	2.4	21	256	38.0	0.30	1.7	2.5	0.13	C
	17	1	38 51.2	18-47.8	155-17.5	1.0	2.5	24	268	43.9	0.32	2.7	1.8	0.14	D
	17	2	53 6.8	19-15.6	155-22.7?	0.0	2.1	22	155	7.2	3.91	0.7	7.4	0.19	C
	17	2	55 23.7	19-15.8	155-23.2?	2.8	1.5	17	160	6.3	2.34	0.9	4.4	0.19	C
	17	3	0 37.9	19-20.5	155-13.8	5.6	1.4	16	174	4.2	0.11	0.8	0.6	0.15	C
	17	4	13 33.3	19-24.7	155-14.6?	2.0	1.0	14	73	0.4	0.18	0.5	0.4	0.15	B
	17	8	4 13.1	19-18.2	155-23.6	2.8	2.9	22	112	3.7	0.08	0.6	0.8	0.19	B
	17	11	23 19.3	18-48.1	155-18.0	8.0*	2.6	23	267	43.1	0.36	2.4		0.12	D
	17	11	55 26.8	19-18.3	155-24.1	2.5	1.2	14	108	3.8	0.06	0.6	1.1	0.14	B
	17	17	6 11.0	19-20.5	155-13.7	5.7	0.7	21	149	4.1	0.09	0.7	0.6	0.19	B
	17	19	23 4.6	19-19.7	155-46.2?	4.2	2.6	20	113	12.6	0.19	1.1	2.1	0.12	C
	17	19	56 35.9	18-47.4	155-17.4	8.0*	2.4	23	269	44.7	0.49	3.2		0.17	D
	18	0	24 52.0	19-21.5	155-14.9	6.6	0.8	22	127	2.4	0.08	0.7	0.5	0.20	C
	18	3	7 15.5	19-22.9	155-14.3	1.2	0.7	14	112	2.9	0.07	0.3	0.3	0.11	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN	18	12	8	0.3	19-19.1	155-15.4	6.4	0.1	15	205	3.9	0.21	1.3	0.7	0.18	C
	18	12	32	25.7	19-18.4	155-12.3?	0.0	0.9	18	180	7.5	5.48	1.0	10.3	0.23	C
	18	14	49	50.0	19-18.6	155-11.2	2.3	0.8	17	180	6.7	0.20	1.1	1.4	0.23	C
	18	16	37	41.0	19-26.4	155-29.0	4.1	1.8	14	83	11.7	0.10	0.7	1.4	0.19	C
	18	16	38	43.5	19-26.6	155-28.6	7.0	3.1	24	46	11.0	0.07	0.5	0.5	0.14	B
	18	17	22	23.9	19-23.0	155-14.4	1.9	1.7	19	109	2.8	0.12	0.5	0.4	0.17	B
	18	18	52	51.4	19-23.2	155-14.8?	2.2	1.1	18	105	2.4	0.11	0.4	0.5	0.15	B
	18	19	1	7.5	19-23.5	155-17.6?	13.5	1.9	23	53	1.2	0.05	0.7	0.4	0.14	B
	18	19	3	2.1	19-23.3	155-14.6	4.0	1.0	11	102	2.5	0.13	0.5	1.2	0.06	A
	18	20	43	36.9	19-21.1	155-15.1	7.8	2.9	25	131	2.8	0.06	0.6	0.3	0.14	C
	18	21	51	5.0	19-23.4	155-14.7	2.5	1.1	11	100	2.5	0.10	0.4	4.0	0.08	B
	18	21	52	5.0	19-23.3	155-14.4	4.5	0.5	11	106	2.6	0.08	0.4	0.8	0.06	A
	19	3	18	48.9	19-18.1	155-12.9	6.0	1.0	13	232	8.0	0.30	1.7	0.9	0.19	C
	19	6	37	42.4	19-33.5	155- 6.6	40.6	1.8	21	144	7.8	0.19	0.8	1.8	0.09	B
	19	7	48	41.4	19-19.3	155-12.1	8.0*	1.4	15	172	6.0	0.08	0.6		0.08	C
	19	8	37	11.1	19-19.3	155-14.7	8.0*	1.0	14	191	5.0	0.07	0.4		0.06	C
	19	12	22	10.4	19-23.5	155-14.9	5.4	1.9	16	97	2.4	0.07	0.4	0.7	0.08	B
	19	13	9	23.5	19-19.8	155-14.2	8.0*	1.4	11	158	5.6	0.07	0.6		0.09	C
	19	13	11	16.2	19-19.6	155-13.9	8.0*	1.0	15	160	5.7	0.08	0.6		0.11	C
	19	13	12	43.9	19-19.6	155-14.4	8.0*	1.1	13	160	5.4	0.09	0.7		0.13	C
	19	13	18	35.2	19-24.6	155-16.0	1.3	1.0	15	69	1.7	0.06	0.3	0.3	0.11	B
	19	15	35	4.2	19-10.4	155-34.1	40.2	2.0	19	106	9.7	0.21	0.8	2.1	0.10	B
	19	17	52	13.4	18-58.9	155-26.4	36.9	-0.2	24	223	23.8	0.38	1.9	3.3	0.15	C
	19	18	11	4.7	18-52.9	155- 7.1	8.0*	-0.5	24	261	47.6	0.50	3.2		0.17	D
	19	19	4	14.8	19-24.6	155-16.7?	1.8	-0.6	8	91	0.7	0.08	0.5	0.4	0.11	B
	19	19	6	11.7	19-23.4	155-14.7	2.1*	-0.2	9	103	2.5	0.05	0.3		0.07	B
	19	19	29	36.6	19-23.3	155-14.7	5.2	-1.4	15	102	2.6	0.08	0.4	0.8	0.07	A
	19	19	34	29.2	19-23.3	155-14.9	2.1*		10	104	2.5	0.04	0.3		0.08	B
	19	19	36	42.2	19-23.3	155-14.6	5.0		13	100	2.5	0.05	0.2	0.5	0.05	A
	19	19	38	49.1	19-23.3	155-14.7	4.9		15	100	2.6	0.07	0.3	0.7	0.08	A

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 19	19	40	9.4	19-23.4	155-14.9	2.1	-7.7	10	103	2.5	0.06	0.3	0.3	0.08	A
19	19	42	38.1	19-23.2	155-15.1	2.6	-0.8	11	104	2.1	0.07	0.3	4.3	0.09	B
19	19	45	6.8	19-23.6	155-15.1	3.9	-7.7	13	96	2.5	0.07	0.3	0.8	0.08	A
19	19	49	2.9	19-23.4	155-14.8	4.4	-7.8	11	100	2.5	0.09	0.3	0.9	0.06	A
19	19	58	23.2	19-23.3	155-14.8	2.0	-0.2	10	104	2.5	0.06	0.3	0.2	0.07	A
19	20	18	4.1	19-11.0	155-31.1	46.4	1.6	21	100	6.4	0.35	1.5	3.3	0.14	B
19	20	22	7.4	19-11.8	155-29.6	43.3		21	78	5.2	0.36	1.6	3.3	0.14	B
19	20	37	22.9	18-46.7	155-16.1	8.0*	-0.4	21	271	47.0	0.42	2.7		0.13	D
19	21	36	47.6	19-23.4	155-14.6	4.3	0.3	13	99	2.5	0.06	0.3	0.7	0.07	A
19	21	55	11.2	19-24.0	155-15.7	1.8	-1.2	8	125	2.5	0.06	0.3	0.4	0.07	B
19	21	57	32.4	19-24.0	155-15.6	1.8	-1.0	10	71	2.6	0.03	0.2	0.1	0.06	A
19	22	19	19.1	19-23.7	155-14.8	4.8	-0.1	10	91	2.0	0.13	0.4	1.1	0.07	A
19	22	34	26.4	19-24.2	155-16.2	1.7	-0.3	12	66	1.9	0.05	0.3	0.3	0.09	B
19	22	50	16.0	19-20.0	155-11.3	8.4	1.2	13	145	4.6	0.09	0.8	1.7	0.11	B
19	23	45	32.0	19-18.5	155-15.8	8.3	1.5	18	174	4.0	0.09	0.7	1.2	0.13	C
20	0	54	7.8	19-23.3	155-14.9	2.4	0.5	9	194	2.5	0.13	0.5	2.5	0.06	C
20	5	42	59.1	18-52.5	155-16.7	6.2	1.7	20	255	37.0	1.23	2.4	8.0	0.15	D
20	6	59	8.1	19-50.6	155-18.8?	5.9	1.9	11	176	6.0	0.19	1.4	2.3	0.09	C
20	10	42	55.6	19-23.1	155-14.7	2.1		10	107	2.5	0.08	0.3	0.3	0.06	A
20	10	47	0.8	19-23.1	155-14.4	4.3		10	106	2.9	0.05	0.2	0.5	0.03	A
20	10	51	43.7	19-23.8	155-14.9	3.7	-0.2	8	90	1.9	0.10	0.3	0.9	0.04	A
20	11	42	39.6	18-37.3	155-14.6	8.0*	-4.2	15	291	59.8	1.12	7.0		0.19	D
20	12	4	50.7	18-43.6	155-16.3	8.0*	-4.6	16	285	50.3	0.67	4.3		0.14	D
20	12	14	59.0	18-44.9	155-15.7	8.0*	-4.4	14	282	49.8	0.60	3.9		0.14	D
20	12	36	56.9	18-44.4	155-15.8	8.0*	1.8	16	283	50.1	0.61	3.9		0.14	D
20	13	35	32.4	18-50.3	155-18.2	27.8*	-4.4	15	267	39.3	0.43	3.2		0.22	D
20	13	44	28.6	19-19.4	155-13.7	8.0*	1.9	13	166	5.9	0.07	0.5		0.09	C
20	14	27	8.4	19-23.7	155-15.1	1.1	1.9	11	91	2.2	0.06	0.2	0.4	0.08	A
20	15	25	25.8	18-51.7	155-16.8	6.5	-0.5	12	263	38.2	1.37	2.9	8.8	0.11	D
20	16	4	6.9	19- 8.1	155-41.5?	2.9	0.7	17	137	14.7	0.21	1.4	1.5	0.30	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 20	16	43	49.8	19-24.0	155-15.8	1.5	0.7	9	64	2.3	0.07	0.3	0.4	0.10	B
20	16	58	19.0	19-24.8	155-16.7?	1.8	0.3	7	105	0.5	0.04	0.2	0.2	0.04	B
20	17	15	22.8	19-24.1	155-16.0	3.2	0.9	7	107	2.2	0.06	0.1	0.6	0.02	B
20	17	16	56.2	19-23.6	155-15.1	2.8	0.8	10	96	2.4	0.09	0.4	1.6	0.08	A
20	18	8	44.6	19-23.6	155-15.3	2.1*	0.4	11	88	2.5	0.04	0.3		0.08	B
20	18	23	19.7	19-23.8	155-15.3	1.7	0.7	9	84	2.3	0.07	0.3	0.3	0.09	A
20	18	57	49.2	19-23.7	155-15.1	2.0	0.8	10	89	2.3	0.15	0.6	0.6	0.11	B
20	21	33	41.7	19-25.3	155-16.2	1.8	-0.1	9	124	0.9	0.06	0.4	0.3	0.09	B
20	22	4	42.2	19-19.8	155-12.9	8.2	1.6	19	145	5.0	0.07	0.5	0.3	0.11	B
20	23	18	3.8	19-23.9	155-15.4?	6.1	1.0	8	145	2.4	2.19	0.8	4.5	0.18	B
20	23	27	13.9	19-24.0	155-15.6	1.7	0.6	7	131	2.5	0.06	0.3	0.3	0.06	B
20	23	28	26.7	19-23.4	155-14.9	1.3	0.7	9	100	2.5	0.07	0.3	0.4	0.10	B
20	23	44	13.8	19-23.3	155-14.8	2.1*	0.9	9	104	2.6	0.04	0.3		0.06	B
21	0	37	14.3	19-25.9	155-16.1	7.3	1.4	7	235	1.0	2.98	6.5	15.3	0.20	D
21	0	37	40.4	19-23.0	155-14.2	3.4	0.5	7	255	3.1	1.07	3.2	5.6	0.06	D
21	0	46	12.7	19-23.9	155-14.9	4.1	1.2	13	87	1.8	0.05	0.2	0.6	0.06	A
21	0	47	41.4	19-24.0	155-15.4	4.9	2.1	15	85	2.2	0.09	0.4	0.9	0.12	B
21	1	8	12.2	19-24.3	155-15.8	2.2*	0.6	10	77	2.2	0.03	0.2		0.06	B
21	1	8	59.6	19-24.2	155-16.0	1.6	0.4	11	62	2.2	0.04	0.2	0.2	0.06	A
21	1	9	37.7	19-23.3	155-14.5	1.9	1.0	11	100	2.6	0.07	0.3	0.3	0.08	A
21	1	12	7.9	19-24.1	155-15.8	2.2*	0.7	11	65	2.4	0.03	0.2		0.06	B
21	1	15	33.3	19-24.2	155-16.1?	2.4	0.5	7	99	2.0	0.03	0.2	0.3	0.04	B
21	1	17	58.7	19-24.0	155-15.5	2.2*	0.7	7	135	2.4	0.07	0.5		0.08	C
21	1	18	46.3	19-24.1	155-15.8	2.2	0.8	7	114	2.4	0.04	0.2	0.2	0.02	B
21	1	21	5.0	19-24.0	155-15.9	1.7	0.7	9	66	2.6	0.03	0.2	0.2	0.04	A
21	1	21	59.0	19-23.9	155-15.8	2.2*	0.9	7	123	2.2	0.08	0.5		0.09	C
21	1	22	1.1	19-24.1	155-15.6	4.7	2.1	16	71	2.4	0.08	0.4	0.8	0.11	B
21	1	25	58.5	19-24.9	155-15.0	4.2	0.9	8	162	1.2	0.31	0.9	1.8	0.07	B
21	1	26	27.5	19-23.8	155-15.3	1.6	0.4	8	156	2.5	0.08	0.4	0.3	0.07	B
21	1	26	39.7	19-24.0	155-14.9	4.9	0.8	15	83	1.6	0.11	0.5	1.1	0.13	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 21	1	31	33.8	19-24.1	155-15.9	2.1	0.9	12	63	2.3	0.06	0.2	0.2	0.06	A
21	1	34	4.3	19-24.1	155-15.9	2.2*	0.7	7	113	2.3	0.04	0.2		0.04	C
21	1	34	37.0	19-24.1	155-15.8	2.0	0.2	7	118	2.4	0.05	0.3	0.2	0.04	B
21	1	35	55.7	19-24.1	155-15.9	2.1	1.0	8	61	2.2	0.04	0.2	0.2	0.05	A
21	1	37	37.9	19-24.1	155-15.7	3.6	0.6	12	76	2.5	0.05	0.2	0.5	0.05	A
21	1	38	26.1	19-24.1	155-15.9	1.7	0.7	8	111	2.3	0.06	0.4	0.3	0.08	A
21	1	39	24.6	19-24.1	155-15.8	2.3*	0.4	7	114	2.3	0.03	0.2		0.04	C
21	1	40	19.6	19-23.9	155-15.7	2.3*	0.7	7	128	2.4	0.08	0.5		0.08	C
21	1	40	24.3	19-24.1	155-15.0	5.0	0.8	12	80	1.5	0.18	0.7	1.5	0.13	B
21	1	40	44.8	19-24.3	155-15.9	2.2*	0.5	8	104	2.2	0.06	0.5		0.09	B
21	1	41	2.1	19-24.1	155-15.9	1.7	0.8	8	110	2.3	0.06	0.4	0.3	0.08	A
21	1	41	14.1	19-24.2	155-15.8	3.5	1.1	11	80	2.3	0.07	0.3	0.9	0.08	A
21	1	42	28.4	19-24.0	155-15.9	2.2*	0.6	11	62	2.1	0.03	0.2		0.06	B
21	1	43	14.9	19-24.1	155-15.8	2.2*	0.6	8	112	2.4	0.04	0.3		0.05	B
21	1	49	35.7	19-24.0	155-15.5	2.1*	0.6	8	135	2.5	0.06	0.4		0.06	C
21	2	5	18.7	19-24.2	155-16.1?	1.6	-0.0	7	100	2.0	0.21	0.6	3.1	0.08	B
21	2	13	46.4	19-24.2	155-16.2	2.2*	0.2	7	95	1.9	0.03	0.2		0.03	C
21	2	23	7.8	19-23.8	155-15.3	3.3	1.1	8	84	2.4	0.13	0.4	1.5	0.05	A
21	4	34	30.8	19-24.0	155-15.6	1.8	0.9	9	69	2.6	0.05	0.3	0.2	0.07	A
21	5	25	12.8	19-23.6	155-15.0	2.7	1.0	9	94	2.3	0.10	0.3	2.1	0.06	B
21	6	22	7.0	19-24.5	155-23.5	8.0*	0.6	13	185	6.8	0.09	0.6		0.09	C
21	6	22	56.6	19-24.0	155-15.7	1.7	0.9	8	69	2.4	0.05	0.3	0.3	0.07	A
21	7	9	21.9	19-25.9	155-16.0	3.4	0.5	10	177	0.9	0.10	0.5	0.9	0.08	B
21	8	58	20.4	19-23.6	155-15.2	2.1*	0.7	9	95	2.5	0.04	0.3		0.06	B
21	9	21	49.5	18-53.4	155-20.9	11.0*	1.8	16	254	32.2	0.35	2.4		0.13	D
21	9	28	20.6	18-46.3	155-16.3	8.0*	4.0	28	272	47.4	0.54	3.5		0.16	D
21	10	19	39.5	19-23.9	155-14.9	4.6	0.7	12	87	1.8	0.04	0.2	0.4	0.03	A
21	12	24	40.0	19-23.3	155-14.7	2.1*	1.1	9	106	2.7	0.05	0.3		0.07	B
21	12	37	14.5	19-23.3	155-14.6	2.1*	1.1	9	107	2.7	0.04	0.3		0.06	B
21	13	26	46.3	19-24.0	155-15.4	4.7	0.6	15	75	2.3	0.12	0.5	1.2	0.13	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 21	13	31	50.2	19-23.3	155-14.8	2.2*	0.9	9	105	2.5	0.06	0.4		0.08	B
21	17	5	6.6	19-23.2	155-14.5	5.5	2.5	16	103	2.7	0.06	0.4	0.6	0.10	B
21	17	20	18.0	19-20.4	155-11.8	7.7	0.9	13	156	4.1	0.09	0.8	0.5	0.12	C
21	17	52	28.9	19-19.0	155-15.2	6.7	1.3	21	146	4.3	0.08	0.6	0.5	0.14	B
21	18	31	32.9	19-23.4	155-14.6	4.4	0.4	14	97	2.4	0.07	0.3	0.8	0.08	A
21	18	36	11.6	19-23.3	155-14.7	2.0	0.7	9	104	2.6	0.06	0.3	0.2	0.07	A
21	18	36	37.2	19-12.8	155- 4.2	46.2	2.3	25	216	13.3	0.29	1.5	2.1	0.12	C
21	19	27	36.7	19-23.2	155-14.3	5.5	1.0	16	104	2.8	0.06	0.4	0.6	0.10	B
21	19	47	50.8	19-23.9	155-15.5	1.7	0.3	10	76	2.4	0.04	0.2	0.2	0.06	A
21	21	24	53.6	19-23.2	155-15.1	0.9	0.2	12	104	2.1	0.05	0.2	0.3	0.08	A
21	21	38	27.2	19-23.6	155-14.9	2.8	0.6	12	95	2.2	0.10	0.5	2.4	0.13	B
21	21	43	6.8	19-23.3	155-14.6	5.4	1.0	16	102	2.6	0.08	0.4	0.8	0.09	A
21	23	25	21.1	19-23.3	155-15.1	1.5	0.5	12	103	2.1	0.07	0.3	0.3	0.10	B
21	23	28	51.3	19-23.2	155-15.1	1.5	0.7	13	104	2.1	0.06	0.3	0.3	0.10	B
21	23	32	9.4	19-23.1	155-15.1	1.2	1.1	9	109	2.0	0.06	0.3	0.4	0.09	A
22	0	8	19.7	19-20.8	155-17.6	25.3	1.6	25	70	1.3	0.12	0.8	1.2	0.14	B
22	0	17	50.6	19-21.0	155-17.6	24.9	1.5	22	73	1.8	0.11	0.7	1.2	0.11	B
22	2	26	15.2	19-23.1	155-14.3	3.6	0.8	11	106	2.9	0.07	0.3	1.0	0.06	A
22	2	38	46.1	19-21.0	155-12.2	8.1	1.3	20	135	2.8	0.08	0.7	0.4	0.15	B
22	2	56	52.9	19-20.1	155-11.6	8.1	0.7	12	161	4.8	0.07	0.6	1.1	0.06	C
22	4	4	53.6	19-23.7	155-15.2	1.9	0.8	9	88	2.3	0.06	0.3	0.2	0.08	A
22	7	7	6.8	19-23.3	155-14.7	2.0	1.0	9	104	2.6	0.13	0.5	0.5	0.07	A
22	7	57	9.5	19-13.7	155-22.7	2.5	2.8	25	156	8.5	0.13	0.8	0.9	0.21	C
22	10	5	19.7	18-49.1	155-17.9	1.7*	2.3	16	270	41.5	0.58	3.7		0.16	D
22	11	25	41.9	19-24.3	155-17.3	1.5	0.3	9	97	1.2	0.05	0.3	0.3	0.08	A
22	12	40	18.8	19-13.9	155-22.6	3.0	3.2	25	156	8.6	0.12	0.7	0.8	0.19	C
22	12	59	30.4	19- 9.9	155-37.3?	0.0	1.6	14	120	20.9	4.73	2.6	27.8	0.44	D
22	13	12	5.9	19-24.4	155-27.7	7.1	1.4	17	58	10.9	0.07	0.5	0.5	0.11	B
22	13	35	47.2	19-13.3	155-22.8?	0.0	1.8	20	157	8.9	6.29	1.1	11.9	0.28	C
22	14	37	32.2	19-19.4	155- 8.9	8.0*	1.5	14	176	5.2	0.10	0.7		0.11	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN	22	15	22 23.4	18-49.6	155-17.3?	29.4*	2.6	22	202	4.1	0.32	2.3		0.19	C
	22	15	46 19.0	18-38.7	155-15.1	8.0*	2.3	14	288	57.4	1.18	7.4		0.19	D
	22	16	20 48.9	19-34.8	155- 8.1	10.7*	1.6	9	334	21.6	5.99	29.5		0.13	D
	22	17	51 52.1	19-23.6	155-14.8	5.0	1.6	15	94	2.2	0.08	0.4	0.8	0.08	B
	22	19	25 0.1	19-23.5	155-15.0	1.4	0.7	10	99	2.5	0.06	0.3	0.3	0.10	B
	22	20	2 33.2	19-22.9	155-14.4	2.7	1.0	11	112	2.9	0.08	0.3	2.1	0.07	B
	22	20	5 19.4	18-50.6	155-16.1	1.7*	2.8	24	277	40.6	0.61	3.8		0.17	D
	22	20	45 16.2	19-16.2	155-22.1	3.7	1.3	24	140	6.9	0.13	1.0	1.1	0.23	C
	22	20	52 1.6	19-16.9	155-22.7	3.4	1.5	22	132	6.2	0.10	0.7	0.9	0.20	C
	22	22	10 28.7	19-22.9	155-14.4	5.7	0.5	14	114	2.8	0.07	0.5	0.6	0.09	B
	23	1	59 58.9	19-23.8	155-15.8	1.1	0.7	9	71	2.1	0.04	0.2	0.3	0.05	A
	23	2	26 45.7	19-25.5	155-16.1	1.5	0.4	7	154	0.7	0.08	0.5	0.3	0.07	B
	23	5	6 33.4	19-20.6	155-11.7?	8.2	1.1	17	154	3.9	0.09	0.7	0.5	0.12	C
	23	7	5 48.9	20- 8.3	155-51.2	28.2	2.3	27	278	7.8	0.25	1.5	2.3	0.12	C
	23	8	13 34.7	19-19.5	155-15.5	7.3	2.0	21	142	3.5	0.06	0.5	0.4	0.12	B
	23	11	46 25.8	19-25.6	155-16.5	2.6	0.5	10	126	1.4	0.05	0.4	0.9	0.07	B
	23	13	31 19.1	19-21.1	155-17.8	25.7	2.3	27	62	2.0	0.10	0.7	1.1	0.13	B
	23	13	53 27.4	19-16.5	155-22.3	2.9	1.2	17	137	6.9	0.11	0.8	1.2	0.20	C
	23	14	25 5.3	19-25.6	155-16.8	3.7	0.9	12	130	1.3	0.09	0.5	0.8	0.10	B
	23	16	15 54.8	19-25.6	155-16.5	2.5	0.6	12	152	1.4	0.04	0.3	0.7	0.07	B
	23	18	28 49.9	19-18.9	155-20.4	6.5	1.2	16	144	3.6	0.13	1.0	0.7	0.18	C
	23	18	46 55.9	18-51.1	155-17.3?	10.8	2.5	21	259	38.6	0.42	2.4	3.2	0.18	D
	23	18	56 36.3	19-13.7	155-22.1?	0.0	1.6	22	158	9.4	4.75	1.0	8.9	0.24	C
	23	19	23 16.7	18-47.6	155-15.5	8.0*	3.4	26	269	45.9	0.48	3.1		0.17	D
	23	19	29 20.2	19-18.0	155-11.0?	7.9	1.4	11	187	7.8	0.58	3.5	4.1	0.47	D
	23	19	34 14.6	18-48.7	155-16.6	8.0*	2.4	22	263	43.3	0.52	3.4		0.18	D
	23	19	52 36.2	19-25.7	155-16.5?	1.9	0.5	10	126	1.6	0.09	0.4	0.3	0.07	B
	23	20	2 9.1	18-46.9	155-15.2	8.0*	2.4	20	271	47.2	0.60	3.9		0.17	D
	23	20	3 59.8	18-42.6	155- 9.3	8.0*	2.0	15	293	59.4	1.31	8.2		0.19	D
	23	20	5 48.4	18-50.8	155-19.5	7.2	2.6	13	277	37.5	2.01	4.7	11.4	0.14	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 23	20	18	24.4	18-51.6	155-18.4	6.8	2.6	14	262	36.9	1.29	2.8	8.1	0.12	D
23	20	47	19.7	19-18.6	155-14.4	7.9	1.8	19	152	5.9	0.07	0.5	0.4	0.12	C
23	20	49	13.0	19-25.6	155-16.9	2.0	0.6	14	124	1.2	0.08	0.5	0.3	0.13	B
23	20	56	53.6	19-25.4	155-16.6	3.1	0.9	15	123	1.1	0.07	0.4	0.7	0.10	B
23	21	39	28.4	19-21.9	155-25.4	6.8	1.3	17	117	4.8	0.10	0.8	0.7	0.19	B
23	21	50	41.7	19-21.6	155-25.8?	0.1	1.1	23	68	5.1	1.51	0.8	5.6	0.26	C
23	22	30	32.4	19-21.2	155-17.6	21.0	1.0	12	103	3.7	0.16	1.0	1.7	0.12	B
23	22	32	30.2	19-21.1	155-17.8	21.0	1.3	15	74	1.9	0.14	1.0	1.5	0.13	B
23	22	58	13.0	19-21.3	155-17.7	21.1	1.4	15	70	2.3	0.14	0.9	1.5	0.11	B
23	23	8	12.4	19-21.1	155-18.2	24.4	1.3	21	46	2.3	0.11	0.7	1.2	0.12	B
24	0	7	42.2	19-21.1	155-18.1	23.3	1.1	15	69	2.2	0.15	1.0	1.6	0.13	B
24	1	4	53.5	19-21.5	155-17.9	25.7	2.1	25	66	2.7	0.10	0.7	1.0	0.12	B
24	1	7	44.3	19-23.4	155-15.2?	1.9	1.6	20	98	2.3	0.06	0.5	0.9	0.16	B
24	2	2	28.0	19-20.5	155-14.1	3.4	0.9	14	195	4.4	0.23	1.3	1.5	0.24	C
24	2	4	12.8	19-25.6	155-16.5	2.8	1.3	11	125	1.5	0.06	0.4	0.9	0.09	B
24	2	13	36.3	19-25.3	155-16.1	2.0	0.6	10	124	1.7	0.09	0.5	0.3	0.08	B
24	2	17	52.4	19-17.5	155-12.7?	0.0	1.7	20	183	9.2	7.86	1.4	14.8	0.29	C
24	2	28	35.6	19-18.7	155-15.6	5.8	1.8	20	168	4.1	0.10	0.7	0.6	0.16	C
24	3	5	50.5	19-21.9	155-25.1	6.8	1.6	17	115	4.5	0.08	0.8	0.7	0.16	B
24	4	6	9.2	19-28.3	155-53.3	6.9	1.7	13	236	22.7	1.44	2.2	10.2	0.11	D
24	4	46	41.0	19-21.3	155-18.2	24.0	2.1	21	68	2.5	0.11	0.8	1.1	0.11	B
24	4	59	14.7	19-20.6	155-19.2	4.3	0.7	14	73	3.3	0.04	0.4	0.4	0.08	A
24	4	59	59.1	19-18.7	155-15.3	5.5	1.0	19	148	4.4	0.12	0.8	0.8	0.21	C
24	7	12	56.2	19-29.2	155-39.8	3.0	1.6	17	98	26.9	0.14	0.8	1.2	0.15	C
24	9	22	35.1	19-21.2	155-18.2	23.3	2.0	19	52	2.5	0.11	0.7	1.2	0.10	B
24	18	37	44.0	19-16.0	155-22.6	1.0	1.8	20	140	7.3	1.44	0.9	5.3	0.22	C
24	19	48	55.6	19-21.5	155-18.1	22.7	2.0	21	58	2.9	0.08	0.6	0.8	0.09	B
25	5	21	22.1	19-20.6	155-13.1	6.4	1.7	17	149	3.5	0.11	0.9	0.8	0.20	B
25	5	49	49.7	18-50.6	155-16.7	6.2	2.0	18	261	40.0	1.66	3.6	10.5	0.16	D
25	7	59	31.2	19-23.2	155-14.8	2.1	0.9	8	107	2.5	0.12	0.5	0.4	0.07	A

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 25	8	43	29.4	19-24.7	155-16.6?	0.9	0.3	8	141	0.8	0.14	0.4	0.3	0.11	B
25	9	18	34.0	19-24.1	155-15.8	1.9	0.8	7	118	2.4	0.09	0.5	0.5	0.09	B
25	10	30	19.6	18-50.0	155-15.8	1.5*	2.2	18	269	41.8	0.68	4.3		0.19	D
25	10	32	3.3	19-22.1	155-16.9	19.5	1.5	14	93	1.9	0.16	0.9	1.5	0.09	A
25	13	9	32.3	19-19.9	155-14.3	8.0*	1.0	12	182	5.5	0.12	0.9		0.14	C
25	13	48	39.5	19-23.5	155-29.0?	7.5	2.7	26	41	11.7	0.12	0.6	0.8	0.20	C
25	14	51	50.8	19-24.9	155-17.0	1.7	0.5	9	144	0.0	0.06	0.4	0.2	0.08	B
25	15	48	57.6	19- 8.4	155-30.3	45.0	1.8	19	158	4.8	0.43	1.8	4.1	0.17	C
25	19	24	57.9	19-23.5	155-14.4	5.0	0.7	11	103	2.2	0.10	0.4	0.9	0.07	A
25	20	1	14.2	19-25.4	155-16.2	2.0	0.4	9	125	1.7	0.10	0.4	0.3	0.07	B
25	20	21	49.8	19-23.4	155-14.9	3.4	0.4	10	99	2.5	0.08	0.4	1.1	0.06	A
25	20	40	35.2	19-24.6	155-16.5	1.3	0.4	10	139	1.0	0.04	0.3	0.2	0.07	B
25	21	22	8.3	19-19.6	155-11.4	8.6	1.1	13	169	5.3	0.09	0.7	1.5	0.08	C
25	22	3	12.1	19-24.8	155-16.4	1.4	0.6	8	155	1.1	0.02	0.1	0.1	0.03	B
25	23	41	13.9	19-21.0	155-17.1	25.8	1.4	16	118	1.7	0.32	2.2	3.0	0.20	C
26	1	1	12.5	19-23.9	155-15.1	2.8	1.1	8	102	1.9	0.16	0.5	1.6	0.07	A
26	5	52	13.2	18-45.9	155-14.6	8.0*	2.7	23	273	49.4	0.69	4.4		0.22	D
26	7	15	6.7	19-23.4	155-14.9	1.4	0.6	9	101	2.5	0.07	0.4	0.4	0.11	B
26	7	28	48.8	19-21.7	155-17.8	25.7	2.3	23	79	3.1	0.18	1.1	1.5	0.14	B
26	9	8	5.9	19-23.4	155-15.1	2.2*	0.9	10	100	2.3	0.06	0.5		0.11	B
26	9	26	36.5	19-23.6	155-14.9	2.9	0.9	7	95	2.2	0.18	0.6	1.8	0.07	B
26	9	38	15.3	19-24.5	155-16.4	1.1	0.4	10	136	1.3	0.06	0.3	0.3	0.09	B
26	9	39	15.2	19-24.6	155-16.2	1.4	0.6	13	116	1.5	0.08	0.4	0.4	0.13	B
26	11	42	22.0	19-22.7	155-26.2	6.6	1.0	21	52	6.9	0.10	0.8	0.8	0.21	C
26	15	52	39.6	19-23.7	155-14.7	5.4	1.0	16	90	1.9	0.08	0.4	0.8	0.10	B
26	18	0	22.1	19-23.2	155-14.5	3.7	0.8	11	104	2.8	0.08	0.3	1.0	0.06	A
26	20	18	51.0	19-19.6	155- 9.1	8.7	1.3	14	173	4.8	0.09	0.7	1.5	0.09	B
26	20	19	29.5	19-23.4	155-14.9	2.7	0.5	11	98	2.5	0.08	0.4	2.0	0.08	A
26	23	7	39.0	19-21.1	155-13.5	8.7	1.9	17	140	2.9	0.05	0.4	0.6	0.09	B
27	0	27	6.3	19-21.9	155-24.3?	1.2	0.9	14	126	3.6	0.18	1.1	2.2	0.27	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 27	0	29	44.1	19-25.6	155-16.5	2.1	0.7	11	125	1.4	0.05	0.3	0.2	0.07	B
27	2	36	26.2	19-23.3	155-14.4	1.8	1.1	11	104	2.6	0.09	0.5	0.4	0.13	B
27	2	40	1.8	19-23.4	155-14.4	1.4	0.6	11	102	2.5	0.11	0.5	0.5	0.16	B
27	2	41	5.9	19-23.2	155-14.3	1.9	1.1	11	108	2.8	0.08	0.4	0.4	0.12	B
27	2	43	33.0	19-15.2	155-21.4	2.8	2.7	25	152	9.6	0.11	0.7	0.8	0.18	C
27	2	58	60.0	19-15.5	155-22.3	2.0	1.5	20	144	7.9	1.19	0.7	4.3	0.19	B
27	3	13	16.0	19-15.9	155-22.8	2.6	1.6	21	139	6.9	0.11	0.8	1.1	0.21	C
27	3	54	50.2	19-15.7	155-22.6	0.5	1.8	22	142	7.4	5.60	1.0	10.6	0.25	C
27	4	1	56.7	19-16.5	155-23.4	3.3	1.2	21	131	5.7	0.10	0.8	1.1	0.22	C
27	5	21	40.4	18-51.9	155-15.8?	0.4	3.0	27	257	38.8	0.35	2.3	1.0	0.14	C
27	5	52	47.1	19-23.3	155-14.6	3.7	1.3	10	105	2.6	0.08	0.3	1.0	0.05	A
27	6	41	54.8	19-17.0	155-23.3	3.8	1.1	17	129	6.0	0.10	0.9	1.6	0.22	C
27	6	43	23.8	19-15.7	155-22.0	3.2	1.7	18	108	2.4	0.16	0.9	0.9	0.13	B
27	7	50	21.4	19-22.9	155-14.3	3.0	0.8	10	113	2.9	0.04	0.2	0.9	0.03	A
27	8	26	59.9	19-23.6	155-14.8	4.1	0.9	12	92	2.1	0.11	0.5	1.2	0.10	A
27	11	48	49.9	19-24.2	155-17.6	2.0	0.5	7	113	1.7	0.05	0.3	0.2	0.04	B
27	12	40	45.0	19-23.2	155-14.8	2.2*	1.1	9	110	2.4	0.04	0.3		0.06	B
27	13	53	1.3	19-23.8	155-15.5	3.0	1.3	15	81	2.6	0.09	0.5	1.8	0.11	B
27	15	34	1.2	19-22.5	155-22.4	6.8	1.0	16	151	4.6	0.11	0.8	0.7	0.16	C
27	15	45	13.6	19-23.3	155-14.7	4.7	1.6	11	105	2.6	0.07	0.3	0.7	0.05	A
27	15	46	52.3	19-23.4	155-14.9	2.1*	0.9	8	101	2.5	0.04	0.2		0.05	B
27	15	47	35.5	19-23.4	155-14.8	2.7	0.9	8	100	2.4	0.09	0.3	1.8	0.05	A
27	16	9	25.0	19-22.8	155-14.1	4.5	1.5	11	117	2.7	0.23	0.8	2.3	0.11	B
27	16	10	19.6	19-23.4	155-14.7	3.9	1.0	12	100	2.5	0.06	0.3	0.8	0.06	A
27	16	11	15.9	19-23.3	155-14.8	1.9	1.3	11	102	2.5	0.08	0.4	0.3	0.10	A
27	16	18	2.3	19-23.4	155-15.0	2.5	0.8	9	102	2.4	0.05	0.2	2.4	0.04	B
27	16	24	8.7	19-23.2	155-14.9	2.7	1.2	11	106	2.2	0.06	0.3	1.5	0.07	A
27	16	34	4.1	19-23.3	155-14.6	4.0	0.6	11	100	2.5	0.10	0.4	1.0	0.07	A
27	16	53	40.6	19-23.3	155-14.8	3.7	1.3	11	101	2.5	0.09	0.3	1.1	0.07	A
27	16	53	40.8	19-23.3	155-14.8	2.0	0.6	8	104	2.6	0.05	0.3	0.2	0.05	A

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 27	16	59	17.2	19-23.1	155-14.7	2.6	1.1	11	108	2.4	0.07	0.3	1.9	0.07	A
27	17	11	58.2	19-23.8	155-14.4	3.8	0.5	13	85	1.6	0.14	0.6	1.7	0.15	B
27	17	41	55.2	19-22.9	155-14.6?	5.8	1.0	16	113	2.5	0.09	0.4	0.9	0.11	B
27	18	18	59.4	19-23.2	155-14.9	2.1	0.7	9	114	2.4	0.09	0.4	0.4	0.05	A
27	18	41	15.2	19-23.3	155-14.7	2.1*	0.8	9	104	2.6	0.05	0.3		0.08	B
27	18	57	10.3	19-23.3	155-14.8	1.4	0.8	11	102	2.5	0.08	0.4	0.4	0.14	B
27	20	50	22.2	19-23.6	155-15.0	2.7	0.9	9	95	2.3	0.11	0.4	2.2	0.07	B
27	21	32	4.0	19-26.0	155-16.7	3.7	0.8	7	247	1.9	0.35	1.3	1.7	0.07	C
28	0	58	26.1	19-23.4	155-14.9	3.0	0.7	9	102	2.5	0.14	0.5	2.2	0.08	B
28	1	6	29.2	19-23.1	155-14.6	2.8	0.9	9	113	2.7	0.10	0.3	2.0	0.06	A
28	1	58	13.2	19-23.3	155-14.7	2.1*	0.9	9	106	2.6	0.05	0.3		0.07	B
28	2	57	31.9	19-19.8	155-11.9	9.3	1.7	15	165	5.1	0.07	0.5	1.0	0.08	B
28	3	8	4.7	19-23.4	155-15.8	3.6	1.1	15	77	1.9	0.15	0.7	1.9	0.19	B
28	3	15	12.7	19-23.3	155-14.7	2.4	0.6	10	104	2.6	0.06	0.3	4.0	0.06	B
28	4	29	57.5	19-21.8	155-17.7	23.6	1.2	15	96	3.1	0.14	0.8	1.4	0.09	A
28	5	13	18.2	19-23.0	155-14.5	3.2	1.2	9	116	2.6	0.10	0.3	1.3	0.05	A
28	5	16	49.1	19-23.2	155-14.6	2.1*	0.7	10	109	2.7	0.04	0.3		0.07	B
28	5	19	58.3	19-23.3	155-15.0	2.5	0.7	9	111	2.3	0.06	0.3	1.4	0.04	A
28	5	40	14.7	19-23.2	155-14.7	2.7	0.8	10	109	2.5	0.06	0.3	2.4	0.06	B
28	5	54	37.9	19-23.3	155-14.7	2.1*	0.3	9	106	2.6	0.05	0.3		0.07	B
28	5	57	55.4	19-23.2	155-14.5	2.1*	0.6	7	107	2.7	0.05	0.4		0.07	C
28	6	13	46.4	19-23.0	155-14.4	3.1	0.6	10	109	2.8	0.09	0.4	1.6	0.07	A
28	6	17	34.9	19-23.4	155-14.8	2.5	0.8	9	103	2.6	0.08	0.3	1.8	0.06	A
28	6	19	54.7	19-23.0	155-14.5	3.0	1.0	8	114	2.8	0.10	0.3	1.3	0.04	A
28	6	20	33.4	19-22.9	155-14.7	2.0	0.8	10	112	2.4	0.08	0.3	0.3	0.07	A
28	6	21	38.9	19-23.3	155-14.8	2.0	0.9	6	117	2.5	0.03	0.1	0.1	0.01	B
28	6	27	15.3	19-23.3	155-14.3	2.1*	0.8	11	107	2.5	0.08	0.6		0.13	B
28	6	28	3.9	19-23.4	155-15.1	1.2	1.0	8	181	2.3	0.07	0.4	0.3	0.06	B
28	6	36	2.3	19-23.3	155-14.5	5.2	0.5	12	101	2.6	0.09	0.3	0.7	0.06	A
28	6	37	57.8	19-23.2	155-14.5	2.1*	1.0	9	109	2.8	0.04	0.3		0.06	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 28	6	40	0.9	19-23.2	155-14.8	2.1*	1.0	10	107	2.5	0.04	0.3		0.08	B
28	6	41	11.5	19-23.1	155-14.7	5.2	1.2	14	108	2.4	0.06	0.4	0.5	0.08	B
28	6	42	4.9	19-23.1	155-14.7	2.1*	1.0	9	112	2.5	0.04	0.3		0.06	B
28	6	43	37.2	19-23.4	155-14.7	2.0	1.7	13	99	2.5	0.07	0.3	0.3	0.09	B
28	6	45	32.8	19-23.3	155-15.1	2.4	1.2	11	102	2.2	0.08	0.3	1.3	0.09	A
28	6	46	31.3	19-23.2	155-14.1	3.4	0.8	14	101	2.7	0.06	0.3	1.1	0.09	A
28	6	48	32.0	19-23.3	155-14.7	3.3	1.1	8	105	2.6	0.13	0.4	1.7	0.06	A
28	6	48	59.0	19-23.3	155-14.5	4.8	0.6	13	100	2.5	0.08	0.3	0.8	0.08	A
28	6	49	54.7	19-22.9	155-14.6	1.5	0.5	12	112	2.4	0.06	0.3	0.3	0.10	A
28	7	13	40.7	19-23.1	155-14.7	2.1*	0.9	9	110	2.5	0.04	0.3		0.06	B
28	7	14	32.6	19-23.2	155-14.6	2.6	0.8	9	108	2.7	0.17	0.6	2.9	0.09	B
28	7	15	59.9	19-23.4	155-14.9	2.0	1.2	11	100	2.4	0.10	0.3	0.4	0.07	A
28	7	19	9.6	19-23.0	155-14.3	4.6	1.9	13	110	3.0	0.20	0.8	2.2	0.21	B
28	7	21	26.0	19-23.1	155-14.6	2.3*	0.8	10	110	2.7	0.03	0.2		0.05	B
28	7	21	56.9	19-23.3	155-14.5	5.6	1.4	16	100	2.5	0.06	0.4	0.5	0.09	B
28	7	24	25.5	19-23.2	155-14.7	2.9	0.9	10	108	2.6	0.06	0.3	1.3	0.05	A
28	7	24	53.0	19-23.3	155-14.2	1.8	1.1	10	114	2.5	0.10	0.6	0.5	0.15	B
28	7	26	12.4	19-23.3	155-14.8	3.1	1.2	10	102	2.5	0.13	0.5	1.8	0.07	A
28	7	27	34.0	19-23.0	155-14.8	1.8	0.9	9	115	2.2	0.06	0.3	0.3	0.09	A
28	7	28	3.8	19-23.2	155-15.1	2.8	1.0	11	104	2.0	0.08	0.3	1.2	0.08	A
28	7	29	21.1	19-23.1	155-14.7	3.1	1.1	10	108	2.5	0.09	0.3	1.3	0.06	A
28	7	30	32.2	19-23.2	155-15.0	2.3*	0.8	11	106	2.2	0.03	0.2		0.07	B
28	7	31	13.0	19-23.1	155-14.8	1.6	0.5	10	113	2.3	0.08	0.4	0.3	0.11	B
28	7	32	1.7	19-23.1	155-14.8	2.0	0.8	10	108	2.2	0.09	0.3	0.3	0.07	A
28	7	33	18.9	19-23.4	155-14.6	1.2	0.7	11	99	2.5	0.12	0.5	0.6	0.17	B
28	7	34	15.7	19-23.1	155-14.7	2.1*	1.4	8	111	2.5	0.05	0.3		0.06	B
28	7	34	42.8	19-23.0	155-14.5	2.0	1.2	10	109	2.7	0.06	0.3	0.3	0.07	A
28	7	36	13.1	19-23.1	155-15.0	2.7	1.0	11	107	2.1	0.07	0.3	1.5	0.08	A
28	7	37	2.1	19-22.9	155-14.9	1.0	0.9	11	113	2.0	0.05	0.2	0.3	0.08	A
28	7	38	41.5	19-23.4	155-15.0	1.3	0.6	9	106	2.5	0.07	0.4	0.4	0.11	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 28	7	40	12.8	19-23.1	155-14.7	2.8	1.1	10	107	2.5	0.07	0.3	1.4	0.05	A
28	7	41	10.0	19-23.7	155-14.9	2.1*	1.2	9	93	2.1	0.05	0.3		0.07	B
28	7	44	36.7	19-23.2	155-14.8	2.1*	0.8	9	106	2.5	0.05	0.3		0.07	B
28	7	49	21.8	19-23.1	155-15.0	4.2	1.3	12	109	2.0	0.10	0.4	1.1	0.08	A
28	7	50	27.4	19-23.2	155-14.8	2.3*	0.7	8	122	2.5	0.07	0.5		0.07	C
28	7	50	38.7	19-23.4	155-15.0	2.1	0.8	9	103	2.4	0.12	0.5	0.5	0.08	A
28	7	50	54.4	19-21.2	155-10.0	12.2*	1.7	7	332	10.0	1.07	6.6		0.12	D
28	7	56	15.6	19-23.5	155-15.0	3.0	1.1	9	97	2.4	0.10	0.3	1.6	0.06	A
28	8	19	0.1	19-23.4	155-14.8	2.8		17	99	2.5	0.06	0.5	1.2	0.14	B
28	9	51	18.1	19-25.0	155-17.1	2.6	1.3	12	117	0.2	0.07	0.5	0.9	0.11	B
28	9	58	53.1	19-21.1	155-13.9	6.3	1.0	16	159	3.3	0.13	0.8	0.7	0.15	C
28	10	14	16.1	19-23.1	155-14.4	3.8	1.8	18	106	2.9	0.06	0.5	0.7	0.13	B
28	10	31	12.6	19-23.3	155-15.1	2.5	1.1	11	101	2.2	0.08	0.3	1.4	0.08	A
28	11	1	12.3	19-23.9	155-15.2	2.1	1.0	9	84	2.2	0.06	0.2	0.3	0.04	A
28	16	34	7.9	19-22.4	155-15.7	28.6		24	111	0.4	0.12	0.8	1.3	0.11	B
28	21	7	15.1	19-18.3	155-16.0	3.5	1.1	21	146	4.6	0.14	0.9	1.1	0.22	C
29	2	14	49.5	18-45.8	155-16.6	12.8	4.1	30	274	47.7	0.30	3.4	7.2	0.16	D
29	3	11	48.6	19-19.8	155-12.6?	3.6	1.6	24	146	4.9	0.15	1.0	1.3	0.31	C
29	3	57	16.7	19-20.4	155- 8.8	4.3	1.5	20	160	3.5	0.13	0.9	0.9	0.19	C
29	4	24	34.4	19-44.3	156- 9.0	47.7	3.1	27	251	33.2	0.38	1.8	2.9	0.10	C
29	5	30	12.8	19-19.9	155- 7.0?	0.1	2.5	28	147	6.4	4.87	1.2	9.1	0.29	C
29	9	10	28.4	18-48.4	155-21.0	0.4*	2.8	18	271	38.5	0.69	4.4		0.20	D
29	10	11	36.5	19-20.6	155-19.6	3.4	1.3	12	104	4.0	0.14	0.5	4.3	0.08	B
29	10	22	50.7	18-49.2	155-20.5	0.6*	2.8	13	281	38.5	0.77	4.8		0.16	D
29	16	0	52.6	18-52.1	155-19.0	6.7	2.7	17	260	35.7	1.22	2.6	7.6	0.13	D
29	16	24	53.4	19-19.0	155-13.4?	8.0	2.0	20	150	6.6	0.07	0.5	0.3	0.11	B
29	17	8	25.0	19-15.9	155-21.8	6.9	1.6	19	144	6.7	0.08	0.7	0.5	0.16	B
29	20	44	52.9	19-19.3	155- 8.3	1.0	2.0	23	159	5.8	1.25	0.9	4.5	0.24	C
29	22	49	16.6	19-20.5	155- 7.9	4.2	1.4	17	158	4.4	0.13	0.9	1.0	0.17	C
29	22	56	33.9	18-46.0	155-16.2	8.0*	2.8	25	273	48.0	0.49	3.2		0.15	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JAN 30	2	15	29.2	19-15.6	155- 8.5	35.3	1.1	13	235	12.2	0.37	1.8	2.7	0.08	C
30	3	2	34.4	18-53.5	155-16.1?	11.7	2.8	22	252	36.0	0.30	1.7	2.3	0.13	C
30	5	51	44.4	19-46.6	156- 4.8	37.8	2.2	21	240	27.2	0.32	1.7	2.9	0.10	C
30	6	57	56.8	19-23.8	155-14.8	5.0	1.9	16	87	1.8	0.07	0.4	0.7	0.09	A
30	14	19	50.2	19-22.1	155-25.4	8.0*	1.5	17	69	5.2	0.10	0.9		0.19	B
30	14	25	16.0	19-23.2	155-24.5	2.7	1.6	18	68	5.8	0.11	0.8	1.6	0.24	C
30	15	19	25.4	19-23.4	155-24.1	8.0*	1.5	19	70	6.1	0.09	0.8		0.16	C
30	16	37	44.3	19-20.0	155-15.2	6.6	0.7	15	139	3.9	0.09	0.8	0.7	0.16	B
30	17	38	52.9	19-18.5	155-14.8	6.7	1.1	18	151	5.5	0.10	0.7	0.6	0.16	C
30	21	18	52.0	19-20.4	155-18.9	6.5	0.7	12	71	2.7	0.14	0.5	1.4	0.10	A
30	22	28	30.6	19-10.5	155-22.4	43.1	1.6	20	179	9.7	0.27	1.2	2.6	0.11	C
31	0	35	23.9	19-23.2	155-24.0	9.3	1.3	19	68	5.6	0.04	0.4	1.0	0.09	B
31	1	49	5.1	19-10.4	155-36.4	8.5	1.5	17	99	8.3	0.09	0.9	1.2	0.16	B
31	2	22	40.0	19-19.6	155-14.3	8.0*	1.2	16	161	5.6	0.08	0.7		0.13	C
31	13	24	46.1	19-16.6	155-23.3	4.0	1.8	14	131	6.6	0.08	0.8	1.0	0.17	B
31	15	53	49.9	19-20.0	155-24.9	5.8	1.9	19	86	11.3	0.08	0.7	0.7	0.17	B
31	21	15	41.8	19-19.8	155- 8.4	8.0*	1.2	15	170	4.9	0.13	1.1		0.16	C
31	22	18	53.6	19-20.4	155-11.9?	7.5	1.3	18	141	4.1	0.08	0.7	1.4	0.14	B
FEB 1	3	5	57.1	19-20.9	155-16.2	34.8	1.5	19	123	2.6	0.12	0.8	1.2	0.08	B
1	10	32	54.9	19-14.4	155-20.9?	0.0	2.2	22	157	7.6	4.07	0.7	7.7	0.18	C
1	12	16	54.3	19-22.3	155-23.8	8.1	1.4	19	112	4.0	0.08	0.6	0.5	0.14	B
1	12	20	31.3	19-20.9	155- 8.3	6.4	1.5	18	137	3.4	0.10	0.8	0.7	0.19	B
1	13	52	37.1	18-49.1	155-18.3	0.1*	2.9	24	264	41.2	0.39	2.5		0.15	D
1	18	17	55.7	19-19.8	155- 8.4	8.0*	1.3	13	170	4.9	0.12	1.1		0.15	C
1	23	52	41.3	19-19.1	155-15.4	6.7	1.0	14	170	3.8	0.10	0.8	0.6	0.15	C
2	0	13	1.9	19-23.4	155-17.1	12.7	2.1	22	55	0.2	0.06	0.7	0.6	0.13	B
2	0	24	7.8	19-22.4	155-14.2	3.3	0.9	11	128	2.7	0.09	0.4	1.4	0.06	B
2	0	30	49.7	20-32.4	156-30.6	95.4*	2.5	17	326	88.9	0.95	6.9		0.15	D
2	1	50	56.8	19-21.9	155-18.0	4.6	1.2	15	74	3.4	0.04	0.3	0.4	0.09	A
2	2	7	53.4	19-21.1	155-20.1	31.9	1.7	23	57	4.8	0.14	0.9	1.5	0.12	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
FEB	2	5	53 31.0	19-12.3	155-36.5?	10.1	3.3	19	227	5.0	0.15	1.2	0.7	0.10	C
	2	5	57 12.5	19-22.3	155-18.0	1.6	0.5	9	124	2.8	0.06	0.3	0.2	0.06	B
	2	7	51 43.1	19-22.0	155-10.6	5.2	1.3	13	159	1.4	0.19	1.1	0.8	0.16	C
	2	12	14 36.1	19-14.1	155- 8.0	37.0		18	204	14.0	0.28	1.5	2.2	0.11	C
	2	18	4 55.5	19-21.9	155-18.0?	1.7	1.0	20	75	3.2	0.16	0.4	0.6	0.12	B
	2	18	9 44.4	19-19.6	155- 7.6	1.7	2.0	20	174	6.1	1.08	1.0	3.9	0.20	C
	2	20	18 41.3	19-21.3	155-25.7?	7.9	1.5	21	74	4.7	0.09	0.6	0.6	0.16	B
	2	20	20 40.7	19-19.7	155-11.9	6.9	1.3	17	167	5.3	0.13	0.9	0.7	0.19	C
	2	20	29 48.4	19-22.3	155-23.9	8.0	2.2	21	51	4.0	0.08	0.6	0.6	0.15	B
	3	0	21 2.3	19-20.1	155-25.6	4.7	0.7	18	87	4.1	0.09	0.8	0.9	0.22	B
	3	1	2 11.3	19-25.9	155-47.4	5.4	1.9	21	145	20.3	0.17	1.1	1.2	0.19	C
	3	1	29 40.4	19-14.1	155- 8.3	36.8	1.5	14	202	14.2	0.17	0.9	1.4	0.07	B
	3	2	3 48.9	19-33.0	155- 7.4	8.0*	1.1	12	257	8.1	0.55	3.8		0.19	D
	3	5	11 19.1	19-13.9	155- 7.2	39.7	2.1	22	203	13.4	0.21	1.1	1.7	0.10	C
	3	6	43 12.9	19-18.8	155-13.0	5.9	1.7	21	154	6.8	0.12	0.8	0.7	0.18	C
	3	6	57 59.7	19-23.5	155-15.1	2.3*	0.7	10	99	2.4	0.04	0.3		0.07	B
	3	7	4 51.1	19-20.2	155-12.2	5.6	2.6	25	139	4.2	0.10	0.7	0.6	0.21	C
	3	8	45 16.5	18-42.9	155-19.5	8.0*	2.7	17	281	46.4	0.52	3.4		0.13	D
	3	9	57 48.5	19-19.0	155-12.1	8.0*	1.5	13	177	6.5	0.13	1.0		0.14	C
	3	12	10 12.5	19-22.4	155-13.3	6.0	0.9	13	123	1.1	0.08	0.5	0.7	0.11	B
	3	14	37 39.4	19-21.8	155-13.0	5.8	1.2	13	133	1.3	0.09	0.7	0.7	0.13	B
	3	16	26 34.8	19-23.5	155-24.4	7.1	1.9	24	55	6.4	0.08	0.7	0.6	0.20	B
	3	17	2 21.1	19-19.8	155-14.0	8.0*	1.1	18	142	5.4	0.07	0.5		0.12	C
	3	17	25 21.5	19- 8.8	155-27.8	36.4	1.6	14	177	1.3	0.32	1.6	3.3	0.11	C
	3	20	50 1.4	19-20.3	155-19.1	5.3	1.2	14	100	3.0	0.08	0.4	0.6	0.09	A
	4	0	23 21.0	19-22.0	155-18.4	1.5	0.8	10	75	3.6	0.12	0.3	0.4	0.07	A
	4	1	45 46.9	19-21.6	155-24.0?	8.2	2.1	20	60	2.9	0.07	0.6	0.5	0.16	B
	4	1	54 53.4	19-19.8	155-15.9	6.7	1.0	17	139	2.7	0.07	0.6	0.5	0.12	B
	4	1	57 14.4	18-56.6	155-26.8	33.6	3.0	24	236	23.4	0.33	1.8	2.8	0.14	C
	4	3	11 8.8	19-18.3	155-15.4?	8.1	1.5	18	179	4.8	0.09	0.7	0.4	0.11	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
FEB 4	3	25	6.7	19-19.6	155- 8.1	3.6	2.3	20	156	5.5	0.15	0.9	1.0	0.23	C
4	3	48	2.1	19-21.1	155-17.5	28.5	1.2	14	82	1.9	0.19	1.2	1.9	0.12	B
4	4	6	3.2	19-21.5	155-17.9	29.5	3.2	26	64	2.7	0.13	0.8	1.3	0.14	B
4	4	31	8.0	18-56.5	155-21.2?	42.0*	1.8	21	241	26.7	0.17	1.5		0.12	D
4	4	31	57.1	19-21.8	155-17.7	28.0	1.3	12	73	3.1	0.30	1.5	2.8	0.11	B
4	5	3	23.6	19-22.3	155-20.8?	8.0*	0.8	10	115	5.8	0.21	1.8		0.27	B
4	5	3	46.3	19-21.9	155-17.9	24.4	1.2	12	68	3.2	0.35	1.9	3.4	0.14	B
4	5	5	54.0	19-21.5	155-18.3	24.6	1.6	14	74	3.0	0.19	1.1	1.9	0.12	B
4	5	36	23.2	19-22.1	155-12.7	4.4	1.1	13	131	0.7	0.07	0.4	0.9	0.08	B
4	6	43	16.2	19-22.0	155-18.2	1.5	0.6	9	78	3.4	0.05	0.3	0.3	0.05	A
4	6	52	53.5	19-20.7	155- 7.4	3.7	2.2	18	139	5.1	0.12	0.9	0.9	0.16	C
4	7	5	27.1	20- 5.4	156-12.7	8.0*	1.6	13	319	97.9	2.30	13.8		0.11	D
4	7	50	29.6	19-21.5	155-18.2	25.1	1.7	14	72	2.9	0.19	1.0	1.8	0.11	B
4	13	10	42.1	19-17.0	155-13.5	29.4	2.6	22	160	8.9	0.15	0.9	1.5	0.13	C
4	15	36	27.7	19-21.8	155-17.6	6.2	0.8	14	77	3.0	0.09	0.6	0.7	0.15	B
4	16	14	26.9	19-28.8	155-11.6	8.0*	1.5	11	222	9.4	0.36	2.3		0.23	C
4	21	1	30.4	19-19.5	155-17.4	30.3	2.4	18	129	1.1	0.21	1.2	2.1	0.14	B
5	8	0	39.3	19-19.3	155-15.5	6.5	0.7	13	182	3.6	0.14	0.9	0.8	0.14	C
5	13	36	42.7	19-24.2	155-15.0	11.8	1.0	17	82	1.4	0.06	0.4	0.6	0.06	A
5	14	17	23.6	19-22.8	155- 2.7	8.0*	1.6	8	129	5.4	0.18	1.6		0.21	C
5	18	8	51.0	19-22.1	155-12.6	4.5	0.7	11	130	0.6	0.09	0.5	1.1	0.10	B
5	18	50	23.5	19-21.9	155-13.3	2.1	0.8	9	144	1.4	0.05	0.3	0.2	0.04	B
5	18	59	29.0	19-21.2	155-11.5	8.6	1.2	16	134	3.0	0.07	0.6	1.1	0.11	B
5	19	6	23.4	19-20.5	155-11.0	9.1	0.9	12	157	3.5	0.08	0.6	1.1	0.07	B
6	0	11	55.1	19-19.9	155-13.1	7.8	1.0	19	143	4.7	0.07	0.6	0.4	0.12	B
6	7	22	43.1	19-20.6	155-13.4	8.0*		13	148	5.5	0.08	0.7		0.11	C
6	8	26	46.4	19-24.2	155-16.1?	2.2	0.9	7	99	2.0	0.09	0.4	0.5	0.09	B
6	9	41	14.1	19-22.6	155-24.6?	8.2	2.3	22	68	4.9	0.08	0.5	0.5	0.13	B
6	11	47	55.6	19-22.3	155-12.9	5.7	0.6	11	139	0.5	0.05	0.4	0.4	0.06	B
6	13	50	15.6	18-50.1	155-16.8	5.2	2.2	12	262	40.8	1.30	2.9	8.1	0.13	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
FEB 6	23	21	19.8	19-19.9	155-13.2	7.6	1.3	15	159	4.8	0.10	0.8	0.6	0.15	C
6	23	26	10.3	18-46.8	155-17.8	8.0*	2.5	16	277	44.9	0.45	3.0		0.11	D
7	0	15	39.9	18-49.5	155-17.8?	0.3	2.6	21	264	41.0	0.68	4.6	20.2	0.21	D
7	0	57	21.2	18-44.5	155-15.8	4.9	2.3	16	302	49.9	0.42	7.4	7.8	0.14	D
7	16	24	32.7	19-25.9	155-27.5	7.5	1.5	20	113	10.3	0.10	0.6	0.6	0.14	B
7	17	3	30.1	19-20.5	155-12.6	7.5	2.1	20	140	3.7	0.09	0.8	0.5	0.16	C
7	17	35	47.1	19-21.8	155-12.4	5.4	0.6	12	135	1.2	0.08	0.5	0.7	0.11	B
7	18	1	36.7	19-22.1	155-13.0	6.0	0.9	14	129	0.9	0.06	0.5	0.5	0.09	B
7	18	16	0.6	19-18.3	155-14.5	8.0*	0.9	14	153	6.0	0.07	0.6		0.10	C
7	22	28	58.0	19-22.4	155-24.0	6.1	1.3	16	126	4.1	0.07	0.6	0.6	0.13	B
7	23	58	18.9	19-17.5	155-14.1	6.8	2.7	22	156	7.5	0.14	0.9	0.8	0.19	C
8	1	8	48.8	18-49.9	155-19.7	3.3	1.9	18	262	38.9	1.52	3.3	9.4	0.18	D
8	1	16	8.0	18-48.4	155-17.6	8.0*	2.8	19	266	42.8	0.45	3.0		0.14	D
8	1	42	39.7	19-19.8	155-12.0	4.1	2.4	20	147	5.1	0.15	1.0	1.3	0.28	C
8	1	45	9.1	19-21.2	155-13.1	7.6	1.2	14	156	2.4	0.09	0.9	0.6	0.13	C
8	1	58	23.9	19-19.6	155-15.4	8.0	2.6	20	139	3.5	0.06	0.5	0.4	0.13	B
8	5	56	55.7	19-18.6	155-14.6	8.0*	1.1	13	178	5.7	0.11	0.8		0.13	C
8	7	19	27.7	19-21.5	155-12.6	7.2	0.6	14	138	1.7	0.07	0.7	0.5	0.12	B
8	7	33	8.4	19-20.2	155-16.8	6.5	0.8	12	166	1.0	0.07	0.5	0.4	0.09	B
8	10	13	1.1	18-46.1	155-18.4	8.0*	2.7	16	273	44.7	0.52	3.4		0.14	D
8	14	22	35.0	19-22.4	155-25.5	8.0*	1.1	13	185	10.4	0.15	1.1		0.18	C
8	14	56	44.9	19-22.9	155-23.4	5.1	1.3	12	184	4.9	0.16	0.8	1.1	0.10	C
8	18	10	11.0	19-20.5	155-12.7	7.3	1.8	18	140	3.7	0.09	0.8	0.6	0.17	B
8	19	3	47.4	19-15.9	155-18.9	29.1	1.8	22	155	3.8	0.13	0.7	1.3	0.11	C
8	20	45	14.8	19-23.4	155-24.9	7.4	1.0	17	120	6.5	0.10	0.7	0.5	0.17	B
8	23	10	34.2	18-49.3	155-18.3	8.0*	2.6	14	264	41.0	0.31	2.0		0.10	D
8	23	18	19.1	19-21.8	155-24.8	4.1	2.4	23	66	4.0	0.09	0.8	0.9	0.26	B
8	23	20	9.2	19-21.7	155-24.9	4.5	1.9	21	67	4.0	0.08	0.7	0.9	0.21	B
8	23	27	49.8	18-43.5	155-17.4	8.0*	2.3	12	290	48.7	0.98	6.2		0.14	D
8	23	29	1.6	18-47.1	155-17.8	8.0*	2.5	13	270	44.4	0.61	4.0		0.16	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
FEB 8	23	30	29.7	18-49.1	155-18.4	8.0*	2.6	13	265	41.2	0.28	1.8		0.09	D
8	23	35	8.9	18-48.4	155-17.9	8.0*	2.6	15	267	42.8	0.34	2.2		0.11	D
9	0	28	57.1	18-48.7	155-17.2	8.0*	2.4	18	266	42.7	0.53	3.5		0.16	D
9	2	54	17.5	19-22.5	155-28.1	4.2	1.8	17	133	9.4	0.11	0.7	1.2	0.17	B
9	3	6	20.9	19-13.8	155-27.5	8.6	1.5	21	110	5.0	0.06	0.8	1.0	0.16	B
9	4	51	54.9	19-13.3	155- 6.8	38.0	1.7	15	206	17.0	0.25	1.4	2.2	0.11	C
9	6	3	6.7	18-48.3	155-17.8	8.0*	2.6	14	267	42.9	0.38	2.5		0.12	D
9	7	3	44.6	18-52.6	155-20.9	5.1	2.5	17	257	33.5	1.33	2.8	8.7	0.14	D
9	18	54	16.9	18-51.2	155-18.6	17.0*	2.9	16	259	37.4	0.37	2.5		0.21	D
10	3	13	6.9	18-46.2	155-17.5	8.0*	2.7	14	273	45.9	0.41	2.7		0.11	D
10	9	22	55.4	19-20.0	155-14.7	8.0*	0.7	13	150	4.8	0.11	0.8		0.16	C
10	13	0	10.4	19-14.9	155- 4.6	42.9	2.5	20	226	9.6	0.23	1.2	1.7	0.08	C
10	15	12	33.9	19- 6.0	155-14.2	6.0		12	247	23.4	1.96	3.6	11.3	0.22	D
10	15	54	27.8	19-24.1	155-24.4	4.3	1.2	15	130	7.4	0.14	0.9	1.3	0.22	C
10	17	1	22.4	18-47.3	155-17.5	8.0*	2.7	17	270	44.8	0.48	3.2		0.15	D
10	23	17	22.3	19-14.2	155- 7.2	40.5	2.8	21	202	12.9	0.27	1.5	2.3	0.14	C
11	4	53	8.7	18-50.9	155-16.7	1.8*	2.6	14	260	39.6	0.47	3.1		0.16	D
11	7	51	40.5	19-16.5	155-18.1	26.3	2.1	16	188	2.8	0.20	1.4	1.9	0.13	C
11	11	31	3.6	19-18.8	155-12.1	2.6	1.7	21	177	6.8	0.18	1.0	1.3	0.26	C
12	9	38	29.3	19-21.3	155-23.8	6.1	2.0	18	55	2.3	0.09	0.9	0.9	0.21	C
12	18	18	48.9	19-20.5	155-17.2	32.7	2.5	22	115	0.7	0.15	0.9	1.5	0.13	B
12	19	52	57.1	19-21.7	155-15.1	23.8	1.7	16	123	1.9	0.13	0.9	1.3	0.10	B
12	22	40	54.6	19-23.2	155-28.1	4.5	1.8	21	57	10.1	0.09	0.7	1.0	0.21	C
12	23	28	27.5	18-59.8	155-14.1	30.2	2.6	21	240	34.5	0.37	2.1	3.7	0.13	C
13	5	23	37.5	19-19.7	155-17.0	7.1	0.6	11	171	1.0	0.09	0.7	0.4	0.09	C
13	12	26	2.9	19-25.5	155-29.2	6.7	2.3	18	68	13.0	0.09	0.7	0.7	0.17	B
13	17	55	47.9	19-20.3	155- 8.9	3.5	2.7	23	145	10.5	0.12	0.8	0.8	0.21	C
14	4	10	3.7	19-25.6	155-50.6	5.0	2.4	13	172	18.0	0.22	1.8	3.0	0.11	C
14	11	12	54.9	19-19.4	155-14.7	4.6	1.0	17	168	4.9	0.12	0.8	0.9	0.18	C
15	3	7	16.8	18-44.0	155-17.2	8.0*	2.5	16	278	48.5	0.78	5.0		0.19	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
FEB 15	3	18	4.5	18-41.1	155-17.6	8.0*	2.2	15	284	51.1	0.98	6.2		0.19	D
15	16	0	25.4	19-18.8	155-15.5	9.3	2.1	15	148	4.2	0.07	0.5	1.1	0.09	B
15	16	36	35.8	18-52.0	155-16.9	2.8	2.1	12	262	37.6	1.21	2.8	7.5	0.11	D
15	22	11	4.5	19-24.4	155-25.7	5.5	1.5	13	169	8.8	0.12	0.7	1.1	0.13	C
15	23	2	0.9	19-20.1	155- 7.1	8.0*	1.5	13	167	6.1	0.11	1.0		0.12	C
16	2	51	59.4	19-18.9	155-13.9	8.0*	1.2	14	207	6.4	0.14	0.9		0.12	C
16	3	52	31.6	19-20.0	155-13.7	8.0*	1.0	12	156	5.9	0.08	0.6		0.10	C
16	6	5	33.4	19-22.3	155-28.9?	8.6	3.1	25	59	10.6	0.13	0.6	1.0	0.17	C
16	11	14	42.9	18-49.7	155-19.2?	28.4*	3.4	24	268	39.5	0.43	2.9		0.20	D
17	12	41	26.2	18-46.5	155-17.2	8.0*	2.8	17	278	46.0	0.66	4.2		0.17	D
17	13	17	56.6	19-22.1	155-24.7	7.8	4.0	24	54	4.3	0.09	0.6	0.7	0.16	B
17	16	42	23.5	19-23.0	155-23.8?	7.9	2.5	22	97	5.2	0.07	0.5	0.5	0.14	B
17	18	35	0.7	19-22.6	155-25.8	4.8	1.3	17	53	6.3	0.07	0.6	0.8	0.17	B
17	20	29	50.9	19-23.0	155-24.7	6.2	2.3	18	99	5.7	0.08	0.6	0.7	0.14	B
18	2	15	49.2	19-20.1	155-12.1	7.9	1.2	13	160	4.5	0.09	0.7	0.4	0.10	C
18	4	28	47.2	18-48.6	155-19.6?	30.1*	3.3	24	266	40.4	0.43	2.9		0.22	D
18	4	34	18.6	18-45.8	155-19.0	34.2*	2.7	22	275	44.0	0.64	4.6		0.26	D
18	9	52	27.4	20- 2.4	155-46.3?	11.0	3.1	26	166	9.8	0.27	1.8	3.6	0.14	C
19	7	23	51.2	19-20.0	155-16.2	7.0	1.3	19	137	2.2	0.08	0.7	0.6	0.15	B
19	15	48	58.4	19-20.7	155-10.3	8.6	1.5	13	155	2.7	0.10	0.8	1.4	0.09	C
19	20	29	25.2	18-51.5	155-17.1	4.9	2.9	21	258	38.2	1.40	3.0	8.9	0.17	D
20	0	43	43.8	19-22.2	155-25.1	7.6	3.0	25	53	4.8	0.10	0.7	0.7	0.20	B
20	3	6	47.6	19-21.8	155- 8.5?	7.0	2.0	17	172	2.4	0.12	1.1	1.5	0.14	C
20	8	36	11.8	19-19.1	155-13.4	8.2	1.5	19	150	6.4	0.05	0.4	0.2	0.08	B
20	9	16	13.9	19-25.8	155-46.1	2.2*	2.6	17	307	40.5	0.57	3.4		0.11	D
20	10	18	57.5	19-18.7	155-13.2	6.9	1.3	17	154	7.0	0.13	0.9	0.7	0.16	C
20	10	40	0.9	19-17.7	155-49.8	8.3	2.6	25	126	5.3	0.11	1.1	1.5	0.18	B
20	12	6	35.6	19-20.9	155-14.0	27.1	1.6	21	133	3.7	0.12	0.8	1.3	0.11	B
21	1	3	51.8	18-47.8	155-17.3	15.3*	3.9	27	268	44.1	0.30	2.0		0.17	D
21	8	13	27.3	18-50.6	155-18.3	5.3	2.5	16	298	38.8	0.49	4.2	5.0	0.17	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
FEB 21	8	38	2.2	18-44.8	155-17.9	8.0*	2.7	21	282	46.7	0.65	4.1		0.16	D
21	11	40	16.8	19-18.4	155-15.1	8.8	0.5	14	180	5.1	0.13	0.9	1.8	0.12	C
21	13	26	7.1	18-58.8	155-17.9	12.6*	1.4	14	277	26.4	0.51	3.5		0.19	D
21	14	34	26.8	19-19.4	155-13.5	8.0*	1.1	17	170	5.7	0.08	0.6		0.11	C
21	17	33	33.6	19-19.2	155-11.8	8.0*	1.7	11	174	6.2	0.07	0.6		0.09	C
22	17	38	54.4	19-20.2	155-13.9	26.4	2.2	20	137	5.3	0.12	0.8	1.3	0.11	B
23	4	24	40.4	19-19.9	155-16.5	28.9	1.9	18	137	1.6	0.13	0.9	1.4	0.12	B
23	5	8	9.9	19-20.0	155-10.8	5.7	2.1	16	142	4.2	0.12	0.9	0.7	0.20	C
23	5	36	34.8	19-19.9	155-16.9	27.6	1.5	14	132	4.7	0.22	1.2	2.2	0.13	B
23	17	6	17.2	19-19.4	155-15.1	7.3	1.7	18	143	4.3	0.06	0.6	0.4	0.10	B
23	20	28	53.6	19-24.4	155-24.5	6.7	1.5	14	120	8.4	0.07	0.5	0.6	0.08	B
24	5	43	53.9	20- 0.5	155-51.6?	43.0	2.3	13	211	15.7	0.41	1.9	4.1	0.09	C
24	7	33	48.1	19-21.9	155- 6.4	8.0*	1.7	10	130	6.0	0.13	1.4		0.19	C
24	12	45	36.4	19-20.5	155-13.1	5.8	1.1	13	181	6.0	0.14	1.0	0.8	0.14	C
24	13	36	16.2	19-22.2	155- 5.6?	0.0	2.0	15	120	6.3	8.07	1.5	15.3	0.28	C
24	17	22	51.8	19-21.9	155- 6.4?	6.9	1.8	15	130	6.0	0.15	1.4	1.1	0.24	C
24	17	43	21.3	19-22.1	155-12.4	4.8	1.6	14	131	4.4	0.08	0.6	1.1	0.13	B
24	22	49	36.9	19- 1.7	155-41.9	34.3	3.9	25	179	6.3	0.26	1.4	2.3	0.13	C
25	9	2	19.0	18-50.9	155-17.1	1.6	2.8	13	259	39.1	0.29	2.0	1.4	0.10	C
25	16	58	47.0	19-20.0	155-15.4	27.8	2.3	20	138	3.5	0.15	1.1	1.6	0.13	B
25	22	7	52.8	18-48.4	155-18.5	0.9*	2.4	17	266	42.3	0.58	3.8		0.19	D
26	2	0	55.2	19-10.4	155-35.5	5.1	2.2	14	103	8.7	0.15	1.2	1.3	0.23	C
27	7	2	20.4	19-20.7	155-13.9	27.1	2.2	18	135	4.7	0.11	0.8	1.2	0.10	B
27	17	54	5.2	19-22.7	155-23.4	5.9	1.4	14	64	4.6	0.08	0.7	0.7	0.16	B
27	19	7	48.5	19-37.1	155-13.8	8.0*	2.0	15	135	21.4	0.06	0.6		0.13	C
27	21	45	50.1	19-58.6	155- 9.4	58.5		12	229	38.3	0.66	2.8	6.2	0.11	D
27	21	53	16.0	19-20.3	155-19.6	5.9	1.0	11	94	3.9	0.07	0.6	0.6	0.09	A
28	10	16	8.8	18-44.2	155-18.6	20.7*	3.0	17	283	46.3	0.40	2.7		0.17	D
28	11	33	9.6	19-18.2	155-17.3	6.3	1.9	19	146	2.3	0.12	0.9	0.7	0.22	C
28	13	11	31.0	19-24.3	155-26.0?	8.0*	1.8	14	70	9.0	0.24	2.0		0.39	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
FEB 28	18	4	22.2	18-42.2	155-18.7	8.0*	2.8	14	290	52.9	1.23	7.7		0.21	D
28	19	2	27.5	19-26.6	154-54.1	4.7	2.0	13	215	4.4	0.17	1.3	0.7	0.11	C
28	22	47	7.4	19-14.7	155-31.1	7.9	2.9	21	70	8.3	0.08	0.7	0.7	0.16	B
29	4	21	28.6	19-21.4	155-15.8	25.7	2.1	17	121	1.8	0.12	0.8	1.2	0.10	B
29	12	8	24.5	19-21.7	156-20.4	19.1*	5.0	25	242	50.3	0.32	2.3		0.20	D
29	12	50	52.6	19-20.6	156-22.8	10.3	3.3	24	278	54.1	0.57	3.3	9.7	0.17	D
29	18	13	58.7	19-24.9	155-26.7	4.4	1.6	23	61	10.9	0.10	0.7	0.9	0.22	C
29	21	14	49.8	19-20.9	155-13.9	27.0	1.4	16	133	4.5	0.12	0.8	1.3	0.09	B
29	21	40	50.3	19-23.0	155- 5.5	3.0	2.4	19	128	7.3	0.12	0.8	1.0	0.18	C
29	22	16	47.7	19-22.5	155- 9.2	5.4	1.0	10	123	1.3	0.10	0.7	1.0	0.11	B
MAR 1	3	30	18.7	19-21.1	156-26.3	8.0*	3.6	13	282	60.3	0.68	4.4		0.11	D
1	4	15	11.0	19-19.2	155-15.1	6.8	1.1	11	190	4.3	0.10	0.7	0.5	0.10	B
1	15	20	34.0	19-21.4	155-13.0	6.2	2.4	22	130	5.4	0.08	0.7	0.5	0.19	B
2	6	29	35.8	18-52.2	155-17.0	3.6	2.5	20	256	37.1	1.28	2.7	8.2	0.16	D
2	11	1	7.9	19-19.5	155-15.4	8.7	0.7	12	179	3.6	0.19	1.2	2.2	0.14	C
2	19	57	46.0	18-42.5	155-21.1	8.0*	2.7	17	282	44.8	0.61	3.9		0.15	D
3	2	32	56.4	19-19.6	156- 3.9	25.5	3.6	13	271	21.4	0.21	1.4	1.3	0.06	C
3	8	4	21.3	18-48.9	155-20.7	2.1*	2.6	16	278	38.5	0.51	3.2		0.15	D
3	8	9	2.8	18-48.2	155-22.2	22.5*	3.9	16	286	36.9	0.62	4.2		0.24	D
3	10	7	2.6	19-19.5	155- 8.9	7.0	1.1	12	174	5.1	0.15	1.3	0.8	0.17	C
3	11	31	54.0	18-48.6	155-20.4	1.6	2.6	21	271	39.3	0.49	3.4	2.4	0.17	D
3	11	49	21.1	19-28.6	155-52.3	6.1	2.5	23	188	23.3	0.74	1.1	5.4	0.16	C
4	16	28	34.4	19-19.4	155-15.4	7.2	1.7	16	180	3.7	0.10	0.7	0.5	0.12	C
4	16	49	40.6	19-25.9	155-25.3	8.0*	1.6	17	96	8.0	0.08	0.7		0.13	C
5	13	45	30.8	19-31.7	155-15.2	8.0*	1.2	10	202	12.2	0.32	2.2		0.24	C
5	16	5	44.8	19-15.5	155-27.3?	5.5	1.8	14	106	2.0	0.15	1.5	1.2	0.31	C
5	17	14	54.9	19-54.5	155-27.8	34.9	2.8	24	153	12.7	0.25	1.2	2.7	0.14	C
5	18	25	18.6	19-20.8	155- 6.4	8.0*	1.9	16	151	6.3	0.11	1.1		0.15	C
5	22	8	59.6	19-24.6	155-27.3	7.1	2.1	20	113	10.7	0.10	0.6	0.6	0.15	B
6	1	34	1.4	19-46.8	155-47.0	11.9	2.1	15	152	11.8	0.15	1.4	1.9	0.14	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR 6	1	36	13.6	18-45.7	155-19.5	8.0*	2.6	20	274	43.4	0.62	4.0		0.14	D
6	7	27	56.6	19-23.2	155- 3.0?	8.2	1.2	14	120	6.1	0.18	1.5	1.4	0.26	B
6	10	34	15.4	19-17.9	155-23.6	1.5	1.5	14	117	4.3	1.32	0.8	4.8	0.17	B
6	16	59	54.7	19-20.4	155- 8.4	7.8	1.6	15	143	3.9	0.10	0.9	0.6	0.14	B
6	17	54	17.0	19-20.7	155-11.5	9.3	1.1	11	199	3.8	0.14	0.9	1.2	0.08	B
6	18	49	52.3	19-21.2	155-11.6	7.0	1.9	19	134	3.0	0.08	0.8	0.6	0.18	B
6	21	14	4.5	19-23.8	155-16.5	32.2	1.3	11	95	1.1	0.29	1.3	2.6	0.08	B
7	7	8	50.2	19-21.7	155-24.7	7.7	2.3	13	169	3.7	0.15	1.3	0.8	0.13	C
7	7	40	3.8	19-19.9	155-12.1	9.2		12	209	4.9	0.14	0.9	1.3	0.09	B
7	16	48	43.4	19-19.0	155-13.2	8.0*	1.1	12	212	7.6	0.15	1.0		0.10	C
7	18	7	6.8	18-45.5	155-20.4	8.0*	2.7	14	275	42.3	0.43	2.8		0.09	D
8	0	7	7.8	18-45.4	155-19.9	8.0*	3.1	21	275	43.1	0.57	3.6		0.16	D
8	1	53	15.0	19-19.2	155-15.4	7.4	1.8	19	166	3.9	0.09	0.7	0.5	0.14	C
8	1	54	45.3	19-19.3	155-15.6	8.8	1.6	13	178	3.4	0.15	1.1	1.6	0.14	C
8	6	25	6.1	18-56.1	155-17.0	9.7	1.6	12	248	31.2	0.64	3.3	3.5	0.14	D
8	7	11	26.7	18-43.3	155-19.1	6.7	3.2	20	280	46.6	0.42	4.5	5.8	0.15	D
8	7	45	8.9	18-48.8	155-22.1	1.9*	2.3	17	267	36.5	0.56	3.6		0.18	D
8	9	8	25.8	19-20.0	155-10.6	6.7	1.7	19	146	3.9	0.11	0.9	0.7	0.18	B
8	16	50	11.6	18-43.4	155-20.4	11.6	2.8	16	281	44.8	0.31	2.8	6.9	0.10	D
8	19	3	7.6	19-51.5	155-36.4	23.0	2.6	25	114	27.9	0.19	1.1	3.7	0.14	B
8	21	6	27.6	19-25.1	155-22.1	7.0	1.6	17	140	4.9	0.10	0.8	0.7	0.16	C
8	21	27	50.0	19-23.0	155-26.9	3.6	1.3	14	141	8.2	0.15	1.0	1.7	0.23	C
8	23	52	12.8	19-17.8	155-22.2	6.1	1.1	17	134	4.8	0.11	1.0	0.8	0.22	C
9	3	11	51.6	18-48.1	155-20.4	29.4*	3.5	24	268	39.7	0.47	3.3		0.25	D
9	3	38	50.3	18-47.9	155-19.9	1.3*	2.9	19	268	40.7	0.57	3.6		0.18	D
9	6	13	45.1	18-44.6	155-18.7	8.0*	2.4	18	282	45.7	0.87	5.5		0.19	D
9	9	9	58.4	19- 8.1	155-14.4	36.5	1.4	17	206	19.5	0.33	2.3	3.7	0.17	C
9	15	53	20.9	18-50.4	155-19.5	8.5	2.0	14	261	38.1	0.41	2.6	2.5	0.12	D
9	21	53	18.1	19-17.4	155-13.7	5.8	2.2	19	174	9.6	0.17	1.0	1.0	0.16	C
10	3	13	2.2	19-16.9	155-50.9	10.5	3.9	22	110	3.0	0.11	1.2	1.2	0.15	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR 10	4	17	56.0	18-41.6	155-19.3	8.0*	2.6	14	283	48.3	0.77	4.9		0.16	D
10	6	11	17.2	19-22.1	155- 8.5	5.0	1.5	16	133	2.3	0.11	1.0	0.9	0.19	C
10	8	8	52.4	19-20.4	154-57.6	29.7	2.0	10	294	21.1	1.02	5.3	5.9	0.08	D
10	14	26	35.7	19-19.8	155-17.2	6.0	0.7	13	165	0.6	0.10	0.8	0.5	0.12	C
10	16	5	33.7	18-52.1	155-18.6	8.2	2.7	17	261	36.1	0.41	2.5	2.2	0.11	C
10	16	13	16.3	19-22.6	155-22.8	6.0	1.3	12	158	4.5	0.12	0.8	0.7	0.13	C
10	18	16	10.2	19-56.1	155-27.7	28.8	2.0	16	169	13.3	0.19	1.4	2.3	0.11	C
11	2	48	47.8	19-46.7	155-48.1	13.6*	2.2	13	248	35.9	0.36	2.5		0.14	D
11	8	2	37.3	19-19.8	155-45.5?	6.4	2.6	12	184	13.7	0.31	2.9	2.8	0.19	C
11	8	25	42.6	19-19.2	155-15.6	8.0	1.3	17	185	3.6	0.11	0.8	1.2	0.12	C
11	8	47	31.5	19-24.5	155-23.4	3.2	1.2	13	165	6.7	0.16	1.0	2.4	0.21	C
11	10	0	1.7	20- 7.1	155-52.5	30.3	2.5	17	263	10.0	0.92	4.7	7.1	0.12	D
11	21	24	18.5	19-24.8	155-23.4	7.8	1.6	18	98	6.7	0.09	0.7	0.6	0.17	B
12	5	51	19.9	19- 9.0	155-39.4	4.1	2.3	19	159	11.6	0.16	1.2	1.0	0.16	C
12	8	40	38.5	19-19.4	155-16.1	7.3	1.4	19	142	2.7	0.10	0.8	0.5	0.16	C
12	9	32	55.3	19-20.7	155-13.8	6.1	1.1	13	171	4.9	0.15	1.0	0.8	0.17	C
12	10	55	55.5	19-26.6	155-24.6	2.7	1.1	10	199	6.2	0.14	0.8	1.7	0.10	B
12	12	16	28.6	19-20.9	155-11.7	7.4	1.4	15	136	3.8	0.10	1.0	0.6	0.18	B
12	17	4	39.8	19-20.8	155-14.1	6.4	1.8	18	157	4.4	0.10	0.8	0.6	0.16	C
12	18	19	25.1	19-19.5	155- 8.6	3.4	1.7	17	174	5.3	0.17	1.1	1.2	0.22	C
12	19	58	48.2	18-41.3	155-20.0	8.0*	3.1	24	285	47.7	0.57	3.6		0.13	D
12	20	30	3.4	18-12.7	155-20.1	8.0*	2.0	14	334	105.6	9.85	58.0		0.18	D
12	20	51	16.5	19-54.9	155-33.3	32.6*	2.0	12	272	18.0	0.18	1.6		0.07	D
12	21	14	8.3	19-18.9	155-25.2	5.6	1.3	10	141	4.2	0.14	1.4	1.2	0.21	C
12	23	29	59.4	19-18.5	155-15.9	6.1	1.3	14	200	4.9	0.15	0.9	0.8	0.14	C
12	23	37	56.3	19-20.7	155-13.9	6.0	0.8	10	169	4.7	0.22	1.5	1.2	0.21	C
13	2	16	14.3	19-20.8	155-12.3	5.9	2.2	23	164	3.1	0.14	1.0	0.7	0.24	C
13	2	34	45.8	19-18.9	155- 8.1?	0.0	2.2	21	208	6.6	5.18	1.3	9.7	0.24	C
13	4	47	10.6	19- 9.2	155-30.0	26.4	1.8	14	171	16.2	0.27	1.6	3.4	0.13	C
13	9	48	36.5	19-26.4	155-26.6	7.2	1.0	19	110	8.5	0.12	0.8	0.7	0.18	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR	13	20	16 58.8	19-19.3	155- 8.6	8.0*	1.9	16	178	5.5	0.11	0.9		0.14	C
	13	21	48 7.2	19-19.8	155-14.0	6.5	1.7	19	167	5.9	0.12	0.8	0.7	0.18	C
	13	22	22 1.0	19-18.8	155-13.6	8.0*	1.0	10	213	7.1	0.17	1.2		0.13	C
	13	23	24 52.4	19-19.5	155-14.0	8.0*	0.8	14	187	6.0	0.11	0.9		0.14	C
	14	0	42 34.4	19-12.4	155-27.5	6.2	2.2	20	126	5.4	0.11	1.0	0.8	0.22	C
	14	2	10 55.1	18-49.7	155-18.7	1.6*	2.5	16	277	39.9	0.77	4.8		0.19	D
	14	8	54 29.9	19-19.9	155-17.7	28.7	2.2	17	116	0.6	0.20	1.0	1.7	0.11	B
	14	11	8 58.9	19-47.4	155-40.9	13.6*	2.8	24	110	20.0	0.08	0.8		0.15	C
	14	11	45 25.1	19-18.8	155-13.6?	8.0*	1.3	10	213	7.0	0.27	1.9		0.16	C
	14	16	43 32.8	19- 5.0	155-22.0	26.9	2.0	22	199	13.3	0.25	1.5	2.6	0.15	C
	14	17	13 0.8	19-18.1	155-15.6	5.9	2.1	19	171	4.9	0.15	1.0	0.8	0.17	C
	14	19	12 15.8	19-20.8	155- 7.2	3.9	1.6	15	153	5.2	0.16	1.3	1.4	0.21	C
	14	22	13 6.4	19-19.1	155- 8.6	1.4	2.0	21	179	5.8	1.34	1.0	4.9	0.24	C
	14	23	18 44.2	19-19.4	155- 8.7	6.7	2.3	22	175	5.3	0.16	1.1	0.7	0.22	C
	15	9	48 43.3	19-20.0	155-12.9	5.7	1.7	18	142	6.5	0.10	0.8	0.8	0.19	B
	15	11	30 57.1	19-21.7	155-24.3?	7.3	1.2	14	112	3.3	0.12	0.9	0.9	0.19	B
	15	11	48 10.2	19-18.7	155-15.0?	9.1	1.0	14	201	4.9	0.14	0.9	1.7	0.11	C
	15	12	22 23.9	19-22.3	155-26.7?	0.0	1.8	11	116	7.1	0.57	1.1	20.1	0.19	C
	15	18	53 41.2	19-51.9	155-33.3	30.1	2.1	16	158	37.3	0.22	1.2	3.6	0.08	C
	15	19	11 37.8	18-50.5	155-19.4	7.6	2.4	17	276	38.1	2.73	5.6	14.5	0.19	D
	16	1	37 21.4	18-53.1	155-17.7	9.0	2.8	24	252	35.1	0.32	1.7	2.3	0.15	C
	16	3	7 27.5	19-19.8	155-15.1?	2.0	1.1	15	177	4.1	0.25	1.4	1.9	0.22	C
	16	5	1 14.9	19-23.6	155-23.1?	7.7	1.4	16	95	5.9	0.06	0.6	1.3	0.13	B
	16	5	22 43.3	19-23.3	155-23.6	5.7		16	114	5.7	0.07	0.6	0.7	0.16	B
	16	5	48 30.9	19-19.3	155-15.6	9.2	2.0	15	183	3.5	0.10	0.7	1.1	0.09	B
	16	9	2 17.7	18-54.3	155-13.1	8.2	2.7	14	259	38.1	0.70	3.4	3.6	0.16	D
	16	13	12 1.8	19-11.5	155-32.4?	3.2	2.1	15	98	8.8	0.20	1.4	1.7	0.31	C
	16	17	30 45.1	19-21.0	155-24.3	5.5	1.2	14	147	2.3	0.09	0.7	0.8	0.16	B
	16	23	24 38.7	19-17.0	155-18.0	30.7	1.4	14	183	5.8	0.32	2.1	3.3	0.13	C
	17	3	46 16.3	19-22.3	155-23.1	6.7	1.2	18	109	3.9	0.08	0.6	0.6	0.16	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR 17	4	37	55.9	18-48.8	155-18.0	5.8	2.3	16	266	41.9	1.50	3.3	9.4	0.14	D
17	5	48	19.0	19-19.9	155-17.9	28.0	2.4	27	110	0.9	0.12	0.8	1.3	0.14	B
17	21	19	2.7	19-18.8	155-15.3?	9.3	0.7	14	199	4.5	0.20	1.2	2.1	0.12	C
18	8	8	57.3	19-15.7	155-33.7	1.3	2.5	21	72	12.3	0.77	1.0	2.8	0.26	C
18	9	45	40.1	19-20.4	155-25.6	7.9	2.3	23	81	4.1	0.07	0.8	1.3	0.18	B
18	11	48	27.2	19-25.1	155-23.9	3.7	0.6	16	135	7.2	0.14	0.9	1.3	0.19	B
18	15	6	57.9	19-19.8	155-15.5	7.4	2.0	19	162	3.4	0.10	0.8	0.6	0.15	C
18	16	9	27.9	19-20.3	155-11.3	9.0	0.6	12	212	4.2	0.13	0.8	1.5	0.08	B
18	18	0	33.2	19-20.2	155-12.4	8.0*	1.7	13	197	5.6	0.08	0.6		0.09	C
18	18	44	36.7	19-22.2	155-12.2	0.9		7	141	0.9	0.10	0.6	0.5	0.06	B
18	19	17	36.1	19-21.2	155-12.1	0.0	1.5	11	174	2.5	0.85	1.2	1.4	0.20	C
18	19	28	1.0	19-21.9	155-12.0	1.8	1.2	12	153	1.5	0.17	0.7	0.5	0.11	C
18	19	32	24.6	19-22.6	155-12.2	1.3		7	146	0.8	0.07	0.5	0.3	0.06	B
18	19	34	5.0	19-21.9	155-11.9	1.7	0.3	8	152	1.7	0.14	0.7	0.5	0.12	C
18	19	36	54.0	19-22.2	155-12.5	1.5		6	153	0.5	0.11	0.7	0.3	0.04	B
18	19	39	11.5	19-22.1	155-12.1	1.4		7	146	1.2	0.06	0.4	0.3	0.04	B
18	19	41	4.3	19-22.2	155-12.3	1.2	-0.0	8	142	0.8	0.10	0.6	0.4	0.09	B
18	19	49	53.4	19-21.9	155-12.2	1.1	1.6	11	154	4.1	0.20	0.8	0.8	0.13	C
18	19	52	13.0	19-21.7	155-12.8?	0.3	0.6	10	154	1.4	2.84	1.0	5.6	0.19	C
18	20	7	47.1	19-21.6	155-12.8	0.5	1.1	9	157	1.6	0.47	0.9	0.8	0.14	C
19	7	3	52.2	19-10.0	155-14.6	40.2	1.7	21	198	16.3	0.28	1.6	2.5	0.14	C
19	8	15	24.7	19-20.7	155-15.9?	8.8	1.1	11	146	2.9	0.14	1.1	0.9	0.16	B
19	13	6	45.8	19-19.7	155-11.6	10.4	1.2	13	168	5.4	0.11	0.7	1.2	0.09	B
19	13	51	3.2	19-18.8	155-10.3	8.0*	1.6	13	196	6.1	0.10	0.8		0.10	C
19	14	39	7.1	19-23.1	155-23.9	7.3	2.2	18	115	5.5	0.10	0.8	0.7	0.19	B
20	2	0	26.9	19-18.6	155- 6.6	0.0	2.5	17	196	8.6	0.58	1.0	1.2	0.19	C
20	9	32	20.6	19-22.9	155-24.3	5.9	1.9	19	98	5.2	0.08	0.7	0.7	0.16	B
20	9	56	21.4	19-13.9	155-23.5	6.2	2.2	17	151	7.3	0.11	1.0	0.7	0.18	C
20	12	22	9.4	19-19.7	154-56.7	35.5	2.1	14	283	10.8	0.24	1.6	1.1	0.06	C
20	14	32	26.1	19-20.3	155-12.0	7.0	3.0	21	141	5.0	0.09	0.8	0.5	0.19	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR 20	14	49	45.7	19-19.8	155-11.8	8.0*	0.7	11	164	8.6	0.10	0.8		0.10	C
20	15	18	48.6	19-24.2	155-24.4	4.1	1.3	13	187	7.7	0.14	0.9	1.4	0.14	C
20	18	14	51.9	19-22.0	155-22.9	6.2	1.1	13	149	3.4	0.12	1.0	0.9	0.18	B
20	18	56	3.0	19-20.6	155-13.1?	8.1	1.3	16	149	5.9	0.08	0.7	0.5	0.12	B
21	9	37	14.7	19-30.9	155-42.3?	2.9	2.0	14	111	23.8	0.30	1.3	3.1	0.14	C
21	16	27	51.4	19- 8.5	156- 8.1	10.6	2.0	12	313	52.5	0.36	4.1	6.8	0.15	D
21	21	32	50.6	19-22.6	155-23.1	7.5	1.8	19	93	4.4	0.06	0.6	0.5	0.16	B
21	23	7	29.1	19-19.1	155-10.9	8.0*	0.6	14	177	5.7	0.12	1.0		0.14	C
22	5	32	6.3	19-20.4	155-13.8	9.3	1.3	13	165	5.2	0.08	0.7	1.1	0.08	B
22	7	33	11.3	18-47.2	155-16.7	8.0*	2.0	18	276	45.5	0.85	5.4		0.21	D
22	9	10	24.0	18-50.8	155-21.1	9.0	1.2	12	271	36.3	0.69	3.8	3.4	0.09	D
22	16	12	36.9	19-19.3	155-16.4	7.9	1.4	13	190	2.4	0.12	1.0	0.4	0.11	C
22	17	2	19.9	19-17.3	155-13.9?	7.0	1.2	10	227	8.1	0.66	3.3	2.3	0.21	D
22	19	29	27.0	19-19.7	155-15.9	7.2	1.1	16	147	2.8	0.14	1.0	0.6	0.14	B
23	2	18	59.9	19-19.1	155- 7.7?	1.8	2.0	23	189	6.7	0.22	1.1	1.1	0.22	C
23	3	31	28.9	19-20.6	155-12.5	3.8	1.2	14	184	5.4	0.22	1.4	1.4	0.26	C
23	5	29	20.7	19-18.1	155-21.4	5.7	1.2	11	129	5.0	0.13	1.0	0.9	0.15	B
23	10	51	17.5	19-19.7	155-12.5	8.0*	1.4	10	206	7.8	0.22	1.4		0.12	C
23	15	13	17.2	19-19.8	155-15.1	9.2	2.3	11	195	4.1	0.12	0.7	1.0	0.06	B
24	0	35	54.2	19-19.0	155-15.7	8.2	1.0	13	189	3.6	0.17	1.4	0.7	0.17	C
24	6	40	20.8	19-27.9	155-44.6	7.6	1.3	16	126	25.8	0.11	0.9	1.6	0.14	C
24	8	13	59.7	19-21.8	155-22.9	5.0	1.3	8	166	3.0	0.16	0.8	1.3	0.09	B
24	12	23	45.8	19-19.1	155-13.4	8.0*	1.7	6	208	7.2	0.22	1.9		0.12	C
24	13	4	28.4	19-27.1	155-26.9	4.2	1.3	10	233	8.1	0.18	0.9	0.8	0.08	C
24	13	20	57.4	19-19.8	155-13.1	7.7	2.3	16	181	6.9	0.09	0.6	1.5	0.10	C
24	15	44	14.4	19-19.5	155-15.4	8.5	1.1	12	180	3.7	0.18	1.2	2.0	0.14	C
24	15	47	6.2	19-24.9	155-23.6	4.8	0.9	10	188	7.2	0.15	1.0	1.0	0.16	C
24	19	20	37.9	19-18.2	155-15.2	6.9	2.4	22	152	5.2	0.12	0.9	0.6	0.18	C
24	19	27	1.4	19-23.1	155- 2.7?	2.1	1.5	17	127	5.9	0.15	1.0	1.4	0.24	C
24	20	17	31.8	19-22.6	155-23.2	5.3	1.1	10	168	4.5	0.16	1.1	1.4	0.16	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR 24	20	38	13.9	19-25.6	155-26.9	7.6	1.6	22	110	9.9	0.11	0.7	0.7	0.17	B
24	21	40	38.8	19-20.5	155-11.2?	4.6	1.0	13	187	3.7	0.26	1.7	1.3	0.23	C
25	0	59	57.1	18-52.9	155-18.7	8.2	2.3	14	265	34.6	0.71	4.1	3.2	0.13	D
25	3	35	6.9	19-16.6	155-22.3	8.0*	1.1	11	200	6.9	0.24	1.8		0.19	C
25	3	56	54.0	19-17.4	155-21.8	2.9	1.0	15	136	5.6	0.10	0.7	1.1	0.16	B
25	6	45	34.4	19-20.7	155-12.8	7.2	1.2	16	180	5.7	0.11	0.8	0.5	0.14	C
25	7	25	24.3	19-19.1	155-17.0	29.4	1.0	18	160	1.9	0.24	1.5	2.2	0.15	C
25	10	37	18.4	20- 0.8	155-32.1	47.0	2.7	26	187	24.3	0.30	1.3	2.8	0.10	C
25	11	40	59.9	19-16.3	155-23.3	2.2	0.9	17	134	6.0	0.09	0.7	1.0	0.17	B
25	22	9	0.5	18-51.8	155-17.1	4.1	3.5	24	257	37.7	1.23	2.5	8.0	0.16	D
25	23	51	20.7	19-30.2	155-11.4	8.0*	0.8	15	182	11.5	0.12	1.0		0.14	C
26	0	31	41.5	18-59.2	155-17.5?	8.2	1.5	15	259	26.3	0.77	4.3	3.8	0.23	D
26	2	11	54.0	19-20.3	155- 8.1	8.0	0.3	10	235	4.6	0.36	2.5	2.9	0.13	C
26	3	10	47.8	19-19.4	155-15.9	6.4	0.1	11	176	2.9	0.15	1.0	0.8	0.14	C
26	6	28	18.8	19-22.4	155-22.8	5.4	0.6	8	163	4.2	0.27	0.8	2.7	0.10	C
26	6	54	37.4	19-15.2	155-28.0	8.8	1.4	16	142	3.2	0.08	1.0	1.2	0.18	B
26	10	58	49.4	19-22.6	155-27.3	8.0*		9	158	8.4	0.23	1.9		0.29	C
26	11	23	25.9	18-50.8	155-19.6	8.1	2.5	14	264	37.5	0.49	2.9	2.6	0.12	D
26	13	34	22.2	18-48.1	155-17.5	8.0*	2.4	15	280	44.2	0.65	4.2		0.14	D
26	14	54	47.5	18-52.9	155-18.3	8.5	2.7	12	253	39.5	0.43	4.8	6.5	0.11	D
26	21	43	15.8	19-21.5	155-17.0	27.0		10	148	2.5	0.42	2.1	3.3	0.09	B
26	22	12	6.0	19-20.6	155-15.7	31.4		12	150	3.1	0.37	1.8	3.0	0.10	B
27	0	59	6.9	19-20.6	155-10.8	5.2	2.2	13	220	3.2	0.23	1.4	1.0	0.18	C
27	2	22	25.7	19-19.4	155-17.6	28.6	2.3	13	145	1.4	0.27	1.3	2.6	0.10	B
27	4	11	4.1	19-21.8	155-27.9	0.1*		11	129	8.5	0.15	1.0		0.23	C
27	5	50	3.7	19-26.6	155-24.3	2.5		10	195	6.2	0.20	1.0	2.0	0.13	C
27	6	1	1.4	21- 1.7	156-15.3	38.1*	4.1	13	321	29.0	0.49	3.9		0.27	D
27	9	56	35.8	19-19.4	155-12.5	2.7	2.1	21	149	5.6	0.15	0.9	1.2	0.24	C
27	11	18	13.7	19-19.1	155- 8.0?	4.6	1.3	15	181	6.4	3.81	1.5	7.1	0.25	C
27	12	50	25.5	19-18.9	155- 7.6	8.0*	1.2	10	188	7.1	0.27	2.5		0.24	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR 27	14	31	23.5	19-18.7	155-12.5	1.8	2.3	23	150	6.9	0.34	0.8	1.1	0.23	C
27	15	6	14.0	19-20.5	155- 6.8	8.0*	1.5	7	159	6.1	0.08	1.1		0.07	C
27	16	24	17.8	19-10.8	155-27.0	32.0	1.9	13	238	18.5	0.60	2.8	4.7	0.11	D
27	17	0	8.2	19-19.6	155-11.5	5.4	1.0	14	168	5.4	0.16	1.1	1.0	0.22	C
27	22	47	57.9	19- 4.7	155- 8.1?	15.3*	1.9	20	241	29.4	0.37	2.8		0.31	D
28	0	6	53.4	19-18.5	155-13.4	8.0*	1.2	9	220	7.6	0.15	1.0		0.08	C
28	4	23	15.2	19-20.5	155-13.6?	2.2	1.0	11	176	5.3	0.60	1.3	1.8	0.22	C
28	6	4	6.2	19-11.5	155-27.9	8.0*	1.3	8	168	18.0	0.20	3.1		0.21	C
28	6	29	14.7	19-22.9	155-24.4	8.0*	0.9	8	208	5.4	0.15	1.0		0.10	C
28	7	10	15.2	19-20.5	155-13.0	8.0*	0.7	12	183	6.2	0.11	0.8		0.11	C
28	7	15	58.6	19-20.5	155-12.0	8.0*	1.2	8	196	4.7	0.12	1.0		0.08	C
28	7	28	32.6	19-24.9	155-16.5	13.3	1.7	14	103	0.8	0.05	0.5	0.5	0.05	A
28	12	27	51.7	19-19.9	155-11.6	8.0*	1.1	12	164	5.0	0.09	0.8		0.12	C
28	23	18	35.9	19-19.7	155-13.8	3.7	1.4	19	165	6.1	0.19	1.1	1.3	0.25	C
28	23	18	46.9	18-53.7	156-36.8	3.0	3.2	20	325	100.2	0.25	10.5	11.4	0.12	D
29	0	2	14.9	19-22.1	155-10.2	5.4	1.2	13	144	0.6	0.15	1.1	1.3	0.17	C
29	1	20	27.7	18-52.2	155-10.9?	5.4*	1.9	17	269	49.5	0.30	2.1		0.18	D
29	3	18	44.6	19-23.5	155-15.3	1.6	1.0	8	170	2.4	0.08	0.4	0.3	0.07	B
29	3	44	26.3	19-18.8	155-12.7	8.0*	1.2	13	178	7.8	0.10	0.7		0.12	C
29	4	0	51.3	19-17.6	155-13.9	8.0*	1.2	12	233	7.6	0.23	1.3		0.11	D
29	4	47	44.9	19-19.0	155- 8.5	8.0*	1.4	12	286	6.2	0.95	4.9		0.18	D
29	6	27	25.1	19-22.9	155-14.5	0.0	0.8	11	119	2.6	0.28	0.4	0.5	0.11	B
29	8	21	56.8	19-21.6	155-24.8	7.8	1.6	18	96	3.6	0.13	0.9	0.8	0.20	B
29	9	14	48.7	19-26.6	155-27.3	4.8	2.0	10	237	9.2	0.33	1.7	1.3	0.11	C
29	9	16	2.1	19-28.8	155-29.7	8.0*	2.0	7	304	11.4	0.61	3.2		0.04	D
29	9	16	13.4	19-27.1	155-26.3	7.4	2.2	20	70	7.3	0.10	0.7	0.6	0.15	B
29	9	46	38.0	19-19.9	155-15.1	7.3	1.5	16	150	4.1	0.10	0.8	0.6	0.17	B
29	10	12	19.7	19-27.9	155-26.9	7.6	1.7	14	170	7.2	0.13	0.9	0.6	0.10	C
29	10	20	29.1	19-26.7	155-30.0	8.0*	1.8	7	295	13.1	0.89	4.6		0.09	D
29	13	43	23.1	19- 4.8	155-22.2	12.6*	1.6	16	201	25.1	0.18	1.7		0.14	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR 29	14	35	57.6	19-19.4	155-15.6	6.3	1.0	12	179	3.4	0.14	0.9	0.8	0.15	C
29	15	58	9.8	19-45.9	155-29.3?	7.0	2.0	20	215	20.6	0.33	3.2	4.4	0.27	D
29	16	41	4.1	19-19.9	155-15.6	8.6	1.4	12	168	3.2	0.16	1.0	1.8	0.11	C
29	19	23	4.1	19-26.5	155-25.7	5.5		16	235	7.4	0.29	1.4	0.8	0.17	C
29	19	55	59.0	19- 0.9	155-14.3	47.0	2.7	23	230	32.4	0.37	1.9	2.9	0.14	C
29	20	5	38.8	19-11.8	155-14.4	44.5	1.9	16	189	13.7	0.42	2.0	4.5	0.14	C
29	20	59	18.7	18-59.4	155-13.8	14.7*		17	236	38.7	0.35	2.5		0.20	D
30	0	6	40.4	19-20.8	155- 7.8	7.4	1.4	16	152	4.3	0.13	1.3	0.8	0.20	C
30	1	15	5.7	18-46.9	155-14.2	8.0*	2.4	17	283	50.2	1.03	6.7		0.21	D
30	1	29	58.0	18-54.1	155-19.9	8.8	3.0	14	248	36.2	0.21	2.6	3.9	0.13	D
30	1	32	46.6	18-46.6	155-15.6	8.0*	2.6	16	272	48.5	0.76	5.0		0.21	D
30	1	48	18.3	18-43.6	155-17.3	8.0*	2.7	14	290	48.7	0.93	6.0		0.14	D
30	1	49	57.4	19-23.3	155-23.1	7.9	2.4	19	54	5.7	0.05	0.5	0.3	0.12	B
30	1	58	40.2	18-48.3	155-18.0	8.0*	3.1	19	321	54.7	0.36	2.4		0.10	D
30	2	1	9.5	18-51.3	155-20.4	18.2*	2.1	9	274	36.9	0.60	4.2		0.11	D
30	2	8	10.4	18-48.9	155-20.4	12.9*		13	281	38.9	0.86	5.7		0.14	D
30	2	13	18.8	18-50.9	155-21.6?	17.3*	2.5	13	272	35.5	0.35	2.3		0.13	D
30	2	17	21.3	18-48.7	155-16.9	8.0*	2.3	15	278	44.7	0.65	4.4		0.14	D
30	2	40	56.9	18-48.7	155-16.7	8.0*	2.8	19	266	44.9	0.46	3.0		0.14	D
30	3	7	40.2	18-47.4	155-16.8	8.0*	2.4	18	281	45.8	0.67	4.4		0.14	D
30	3	52	45.4	18-48.9	155-17.9	8.0*	2.7	19	266	42.8	0.49	3.2		0.17	D
30	4	37	21.2	19-17.8	155-27.5	6.4	1.6	13	112	2.8	0.10	1.1	0.8	0.20	B
30	4	51	9.1	19-12.0	155-27.2	8.0*	1.5	13	228	8.2	0.26	1.8		0.16	D
30	5	43	34.0	19-20.3	155-13.2	8.0*	0.9	11	152	6.0	0.07	0.7		0.11	C
30	7	12	18.9	19-20.6	155-11.2	9.0	1.1	8	207	3.6	0.11	0.8	1.2	0.05	B
30	7	31	35.6	18-51.2	155-17.3?	2.1*	2.6	15	264	42.2	0.44	2.9		0.15	D
30	8	53	48.3	18-48.1	155-17.9	8.0*	2.6	17	273	43.5	0.61	4.0		0.16	D
30	9	30	44.4	18-49.3	155-18.1	8.0*	2.4	15	270	42.2	0.67	4.5		0.19	D
30	14	1	15.3	19-17.7	155-23.8?	0.8	1.3	14	132	4.7	1.68	0.7	6.3	0.16	C
30	14	2	49.9	18-55.1	155-30.5	20.9	3.9	23	246	17.9	0.41	2.4	4.6	0.13	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAR 30	19	14	1.3	19-19.5	155-10.2	9.3	1.7	12	172	4.7	0.08	0.6	1.4	0.07	B
30	23	40	17.1	19-20.9	155-12.9?	7.9	2.0	18	146	2.9	0.06	0.6	0.9	0.11	B
31	2	55	59.9	19-18.7	155-13.7	8.0*	1.0	10	215	7.0	0.21	1.5		0.17	C
31	5	15	41.4	19-19.3	155-16.4	6.2	1.4	17	150	2.2	0.11	0.9	0.7	0.20	B
31	16	20	34.9	19-20.8	155- 5.6	6.7	4.1	20	147	5.0	0.10	0.8	0.6	0.15	B
31	18	19	25.3	19-20.0	155- 5.1	3.1	1.7	15	209	9.2	0.29	1.8	1.7	0.22	C
31	18	44	59.9	19-22.3	155-25.1	8.0*	1.8	11	136	5.0	0.07	0.6		0.09	C
31	18	53	58.8	19-22.9	155- 6.3	4.1	3.1	18	114	6.5	0.13	1.1	1.3	0.26	C
31	23	10	22.2	19-43.4	155-33.7	27.6*	2.0	11	140	31.0	0.98	6.6		0.10	C

Table 3. Felt earthquakes

Date	Time H	M	S	Magnitude	Felt report
Jan 9	19	00	43.1	2.6	Hawaii National Park
13	13	59	32.2	4.3	Kapapala
16	18	25	59.4	1.9	Kapapala
17	08	04	13.1	2.9	Kapapala
21	01	34	04.3	1.7	Hawaii National Park
23	19	23	16.7	2.1	Kapapala, South Kona
Feb 2	05	53	31.0	3.3	Kapapala, Hawaii National Park, Kealakekua
10	03	13	06.9	2.7	Kainaliu
16	06	05	33.4	3.1	Kapapala
16	11	14	42.9	3.4	Kapapala
17	13	17	56.6	4.0	Kapapala, Hilo, Volcano, Honokaa
18	09	52	27.4	3.1	Kamuela
21	01	03	51.8	3.9	Kapapala
24	22	49	36.9	3.9	Kainaliu, Captain Cook, Kealakekua
28	22	47	07.4	2.9	Kapapala
29	12	08	24.5	5.0	Kainaliu, Captain Cook, Kapapala, Island of Oahu
Mar 3	08	09	02.8	3.9	Captain Cook, Kapapala
9	03	11	51.6	3.5	Kapapala
10	03	13	02.2	3.9	Milolii, Captain Cook, Kainaliu, South Kona
27	06	01	01.4	4.1	Island of Maui
30	14	02	49.9	3.9	Kainaliu, Naalehu, Volcano, Captain Cook
31	16	20	34.9	4.1	Volcano, Glenwood, Hilo, Papaikou, Kalapana

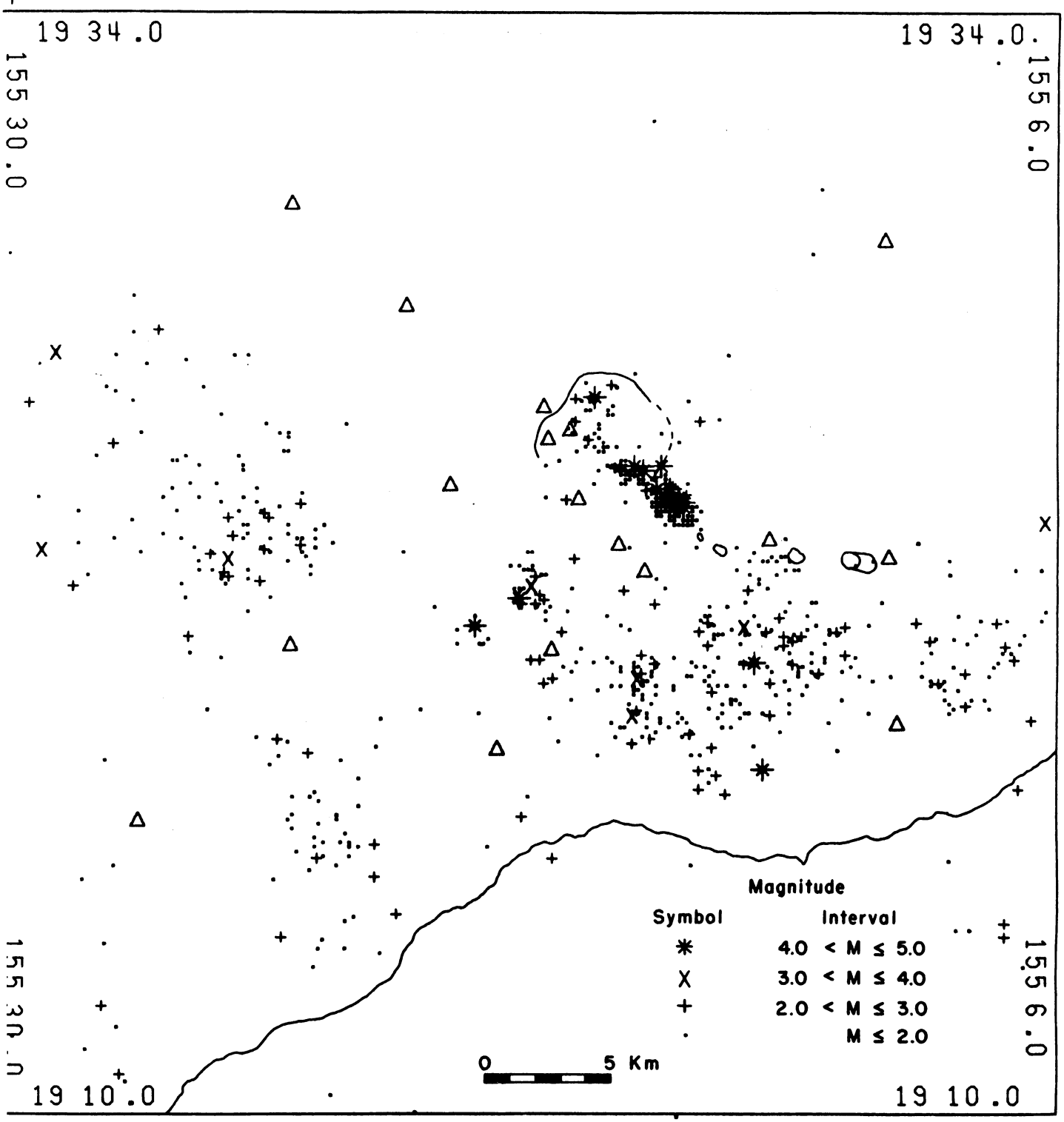

Figure 1.--Plot of epicenters in the Kilauea region. Triangles are seismometer locations. Kilauea Caldera and the major pit craters on the east rift are shown in outline. The Pacific Ocean lies in the lower right portion of the illustration.

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	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	Installed 1/4/72
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			System 1 3/7-29/72
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
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					

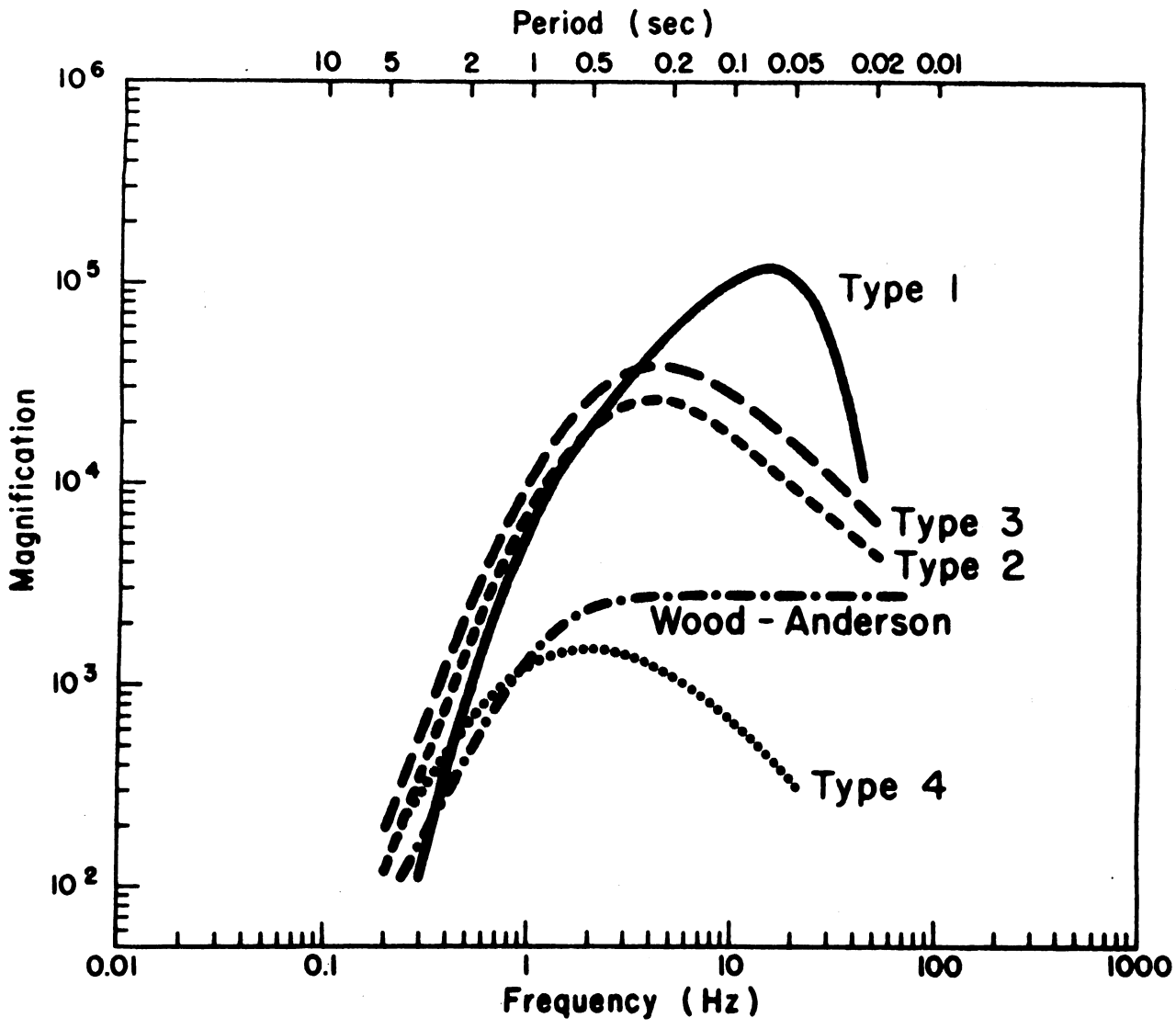

Figure 2.--System response curves for the Wood-Anderson torsion seismograph and for the four different types of seismometer-amplifier (or galvanometer) combinations in use by the Hawaiian Volcano Observatory.

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 7. The field tilt bases were not measured during this quarter.

Table 6.--Tilt Coordinates at Uwekahuna,

January, February, and March 1972

Date	N-S	E-W	Date	N-S	E-W
Jan. 2	719	326	Mar. 5	728	326
9	721	326	12	728	325
16	723	324	19	728	328
23	724	320	26	726	332
30	727	316			
Feb. 6	730	316			
13	729	319			
20	729	318			
27	729	319			

Table 8. --U.S. 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.

REFERENCE CITED

Hamilton, R. M., B. E. Smith, J. C. Hall, and J. H. Healy, 1969, Summary of seismic activity in the Pahute Mesa area, Nevada Test Site, December 1968 - June 30, 1969: U. S. Atomic Energy Comm. (USGS-474-58): Springfield, Va., Clearinghouse for Federal Sci. and Tech. Inf., 63 p.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HAWAIIAN VOLCANO OBSERVATORY

SUMMARY 66

April, May, and June 1972

By

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Chronological Summary

By

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Illustrations

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CHRONOLOGICAL SUMMARY

The Mauna Ulu eruption that began in February continued through the quarter. The level of activity at Mauna Ulu increased in early April, and vents C and D at Alae, which had become dormant in late March, resumed their activity on April 3. The lava lake at Alae again became active, and a small shield built over vent D before it declined and extinguished later in the month. The principal active vents at the beginning of this renewed activity were A in the main Mauna Ulu crater and C at Alae. Each fed an actively circulating lava lake that showed short-period rise-and-fall cycles of the "gas-piston" type that were described in the 1969-1971 Mauna Ulu eruption. Vent A gradually disappeared as a source of fountaining. New vents became active in the trench near the former vent B from time to time and flooded the trench with flowing lava that cascaded from the trench into the crater. Each of these vents seemed to be a temporary manifestation of a continuing feeder in the vicinity of vent B. Most of the flowage westward from the trench into the crater was in a lava tube beneath a crusted surface in the trench and through the septum between it and the main crater.

This pattern progressed to a stable configuration with the level about the same in the trench and the crater, but with lava visible in the trench only when holes collapsed in its generally crusted roof. The lava lake in the crater remained at a more-or-less constant level about 20-30 m below the rim. No overflows occurred from Mauna Ulu during the remainder of the life of this stable eruptive pattern, but Alae overflowed almost constantly to produce a growing shield with an active lava lake at its crest, directly over the old crater.

The stability of this eruptive pattern was remarkable. The volume of lava flowing westward from the trench to the crater of Mauna Ulu varied slightly, as did the level of the lava lake in the main crater. The rate of flow of vent C at Alae also varied within rather small limits. Minor inflations and deflations caused tilt changes of a few microradians at the summit of Kilauea. The entire eruptive system seemed to be in a steady-state condition in which inflow determined the output of a master feeder in the vicinity of vent B in the Mauna Ulu trench, the lava lake in the main crater acted as a local reservoir, and overflow from Alae balanced total inflow to the system.

During May some islands appeared in the Alae lava lake, similar to "epimagma" islands described by Jaggar in Halemaumau early in the century. These islands grew and coalesced over a period of about a month, separating the Alae lava lake into two main compartments. One of these, fed directly by the vent, continued to build its levees and

to overplace its growing shield at a greater rate than the other, which was fed by overflow from the first. Thus, the two segments of the lava lake developed distinctly different levels. By the end of the quarter, the Alae shield was more than 30 m high above the early 1972 surface, and its summit was more than 100 m above the pre-1969 rim of Alae Crater. In late June overflows from Alae once again, as in March of this year, cascaded into Makaopuhi Crater. The deep western pit of Makaopuhi began to fill as this flow continued into the next 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, 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 (1972)	Tremor (m = minutes h = hours)			Earthquakes									
				Kilauea Summit			SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	Offshore Puu Pili	Remarks
	Deep	Intermediate	Shallow	30 KM	Long Period	Shallow						
April 1					50	796	13	57	14		101	
2					20	199?	13	22	4	4	4?	
3					89	188?	6	37	5	3	61	
4					122	152?	10	20	9		22	
5				1	69	467	46	44	20	4	12	
6					26	251?	12	74	6		5	
7				15	45	343	27	56	15	2	195?	
8	9m			13	45	394	20	67	13	4	37	
9				4	4	282?	16	21	3	2	12	
10				10	12	221?	33	23	2		69	
11				4	?	301?	27	49	3	1	157	
12				1	28	614	11	30	6		52	
13					4	329?	17	54	4		11	
14					32	614	11	64	15		20	
15					31	400?	15	47	5		10	
16					?	?	?	?	?		?	
17				1	1?	131?	14	31	11		23	
18					17	334	18	79	28	3	54	
19					110	446	72	11	6		91	
20					19	429	71	42	12		10	
21				1	38	352	42	30	7	1	25	
22				2	54	348	30	13	11	1	16	
23					72	353	48	76	16		3	
24				1	204?	346	8?	53	5		1	
25				7	56	327?	22	24	10		315?	
26				1	141	303	29	37	4	1	42?	
27					211	308	14	44	3		?	
28	159m				134	457	11	23	8	1	38	
29	60m				188	339	21	37	5	1	24	
30					298	330	36	56	9	4	8?	

Low to moderate tremor on the upper east rift throughout the month.

Date (1972)	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						
May 1				3	261	465	31	32	47	5	1	
2				1	163	421	25	29	5	6	10	
3					337	370	35	31	9	2	1	
4					527	343	34	30	7		1	
5					493?	363	27	17	6	1	6	
6				3	230	316	29	21	3	3	158?	
7					169	294	17	33	2		1?	
8					163	239	16	24	5		5	
9					118	298	35	23	9		4	
10					84	229	16	?	?		6	
11	?				50?	152?	35	37	3		?	
12	5m	20m			49	495	9	26	10		4	
13	30m			1	66	466	19	17	8	3	3	
14				1	239?	362	24	41	12			
15				1	413	354	40	14	4		3	
16				2	293	365	58	17	16		1	
17					91	392	48	15	24			
18				2	232	403	35	27	7	1	1	
19				3	54	507	29	27	13		3	
20	36m			1	85	453	32	23	19	1	8	
21		104m			135	413	33	15	5			
22					115	408	41	11	3	2	1	
23				1	60	306	46	23	15		1	
24					162	273	19	17	10	2	325	
25	45m	?			271	453	32	114	16	5	71?	
26		14m		4	110	375	10	52	12	1	38	
27		30m			115	384	15	24	3		28	
28					231	394	31	26	12		?	
29					136	415	51?	24	17	6	13	
30		7m			70	683	20	39	12	1	9	
31		23m			210	599	34	46	16	1	9	

Low level tremor on the upper east rift throughout the month.

Date (1972)	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						
June 1					111	512	22	53	7	2	7	
2		14m		2	134	662	42	80	15	3	8	
3				1	97	577	62	65	9	11	10	
4					26?	374?	6?	10?	14?		6?	
5					19	413	16	19	8		8	
6		2m			11	453	26	23	12	1	17	
7				1	22	491	12	28	7		?	
8				2	29	441	16	23	5	1	16	
9					28	442	22	24	13	2	20	
10				1	33	520	21	29	18	3	3	
11		60m		2	112	484	14	42	12	1	10	
12	40m	30m		2	61	578	22	28	14	3	18?	
13	30m	5m		4	52	467	19	40	8	1	8	
14	80m				61	513	24	45	16	7	8	
15	25m				42	433	21	58	13	2	5?	
16		7m			80	356	43	64	8	4	10	
17		4m		1	175	407	52	147	13	6	1	
18				2	49	462	26	96	12	7	13?	
19				2	34	482	24	107	17	12?	2	
20					39	604	12	123	14	3	2	
21				2	66	738	21	170	20	6?		
22				2	53	358	38	162	15	4		
23					89	805	13	199	37	9?		
24	80m			1	72	663	37	239	23	3		
25					52	767	30	252	23			
26					26	641	19	253	?			
27	83m	9m			83	266?	39	137	3	1	14?	
28				2	74	238	24	130	8		4	
29				1	57	473	21	225	4	3	3	
30				1	104	289	22	159	6	4	2	

Low level tremor on the upper east rift throughout the month.

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

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR 1	2	11	32.5	19-22.6	155-18.6	15.6	1.2	9	73	2.8	0.17	0.7	1.8	0.05	A
1	2	39	1.1	19-23.1	155-16.3	20.5	1.4	12	70	1.4	0.20	0.8	2.0	0.08	A
1	3	45	57.7	19-23.2	155-25.8	2.9	1.3	13	193	7.1	0.18	0.9	1.5	0.15	C
1	4	38	20.6	18-50.3	155-20.8	10.8*		15	265	37.0	0.41	2.8		0.12	D
1	5	1	41.8	19-21.1	155-24.4	8.7	2.2	19	108	2.5	0.05	0.7	1.1	0.13	B
1	8	16	30.3	18-54.6	155-20.4	14.1*	2.4	14	250	35.1	0.42	3.1		0.17	D
1	8	25	51.4	18-44.9	155-15.4	8.0*	2.7	12	301	50.3	1.24	7.9		0.12	D
1	8	29	45.0	18-50.5	155-18.2	1.6*	3.0	21	260	41.1	0.48	3.2		0.16	D
1	8	34	45.0	18-54.1	155-22.3	9.3	2.3	11	250	32.2	0.30	3.6	4.1	0.10	D
1	8	58	48.4	18-49.2	155-18.0	8.0*	2.6	19	264	42.4	0.47	3.1		0.15	D
1	9	30	9.5	19-19.7	155-11.6	8.0*	0.3	12	166	5.3	0.10	0.8		0.11	C
1	9	52	13.3	18-49.9	155-18.7	1.3*	2.5	16	262	40.9	0.39	2.6		0.11	D
1	10	58	14.4	19-18.6	155-13.4	8.3	1.6	16	179	7.5	0.11	0.8	2.0	0.13	C
1	13	40	42.5	19-19.9	155- 7.4	8.0	1.3	14	170	5.9	0.16	1.6	1.0	0.18	C
1	14	25	15.9	19-21.3	155- 7.8?	2.4	1.8	16	145	8.9	0.33	0.6	1.2	0.12	B
1	14	58	12.2	19-19.5	155- 7.0	7.8	1.9	16	178	6.9	0.17	1.6	0.9	0.21	C
1	16	36	38.8	19-20.9	155-11.2?	7.7	2.0	17	150	3.2	0.37	3.4	5.3	0.62	C
1	16	39	43.2	19-22.3	155-23.6	8.0*	0.8	10	230	7.3	0.37	2.3		0.18	D
1	19	19	23.9	19-18.7	155-16.0	8.5	1.2	16	170	3.6	0.12	0.9	1.3	0.12	C
1	22	31	36.0	19-22.7	155-22.9	3.5	0.8	12	169	4.6	0.17	1.1	1.4	0.17	C
2	1	27	33.6	19-25.1	155-50.8	6.0	1.9	14	136	17.1	0.22	3.1	3.9	0.18	C
2	7	53	50.6	19-21.8	155- 2.6	7.7	0.4	12	137	3.6	0.19	2.1	1.5	0.22	C
2	8	40	19.6	19-18.2	155-16.7	9.0	0.8	15	201	3.4	0.19	1.3	1.7	0.14	C
2	14	39	45.5	19-22.5	155-24.6	8.0*		7	218	4.9	0.20	1.4		0.11	C
2	21	22	13.3	19-19.8	155-12.6	3.6		10	203	6.4	0.29	1.6	2.0	0.20	C
3	6	20	56.7	19-19.6	155- 7.4	8.0*		11	186	7.8	0.20	1.8		0.21	C
3	10	28	1.6	18-48.4	155-19.6	10.1*		12	271	40.6	0.60	4.1		0.13	D
3	11	20	31.7	18-47.0	155-17.4	8.0*	2.5	9	282	45.3	0.57	3.7		0.08	D
3	11	57	32.7	19-25.5	155-28.7	7.3	2.2	17	91	12.3	0.13	0.7	0.8	0.14	B
3	12	5	49.9	18-45.8	155-16.0	8.0*	2.2	9	300	48.4	1.53	9.8		0.12	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR	4	4	51 7.1	19-20.9	155-13.2	8.0*		10	170	5.4	0.10	0.8		0.10	C
	4	5	2 10.7	19-21.7	155-12.4	4.9	2.3	13	157	4.6	0.19	1.2	2.0	0.27	C
	4	7	26 8.3	19-24.9	155-25.9	8.0*		8	235	9.8	0.18	1.1		0.07	D
	4	8	34 18.6	19-19.6	155-17.8	6.3		10	170	1.0	0.14	0.8	0.6	0.09	B
	4	16	15 7.9	18-46.7	155-17.5	8.0*	2.2	10	283	45.4	0.57	3.7		0.09	D
	4	23	18 50.3	18-44.5	155-17.3	8.0*	2.6	15	277	47.8	0.57	3.6		0.14	D
	5	10	23 34.6	19-19.4	155- 8.5	2.7	2.1	19	177	5.5	0.17	1.0	1.2	0.22	C
	5	15	17 30.3	19-21.2	155-23.8	6.6	1.3	12	103	2.0	0.08	0.6	0.5	0.11	B
	5	15	34 14.7	19-22.8	155-16.5	17.4	1.1	16	71	1.3	0.10	0.8	1.2	0.11	B
	5	19	23 53.5	19-20.4	155-19.5	3.0	1.0	15	105	3.7	0.10	0.7	1.2	0.16	B
	5	19	38 53.9	19-19.7	155-15.8	5.3	1.3	17	170	2.8	0.14	1.0	0.8	0.18	C
	6	2	35 4.2	19-14.5	155-30.7?	0.0	2.1	18	201	11.2	0.57	1.7	1.1	0.21	C
	6	19	37 57.1	19-25.6	155-24.5	8.0*	1.1	11	184	7.5	0.08	0.6		0.08	C
	6	23	31 37.8	19-33.6	155- 4.5	21.0	1.9	16	119	6.2	0.19	1.0	2.4	0.14	B
	7	2	12 50.4	19-20.5	155-12.9	4.8	1.6	11	183	6.1	0.18	1.0	1.3	0.16	C
	7	2	14 55.3	19-21.0	155-14.2	10.5	1.4	9	236	3.9	0.34	1.5	2.2	0.06	C
	7	2	45 16.1	19-20.6	155- 8.8?	7.2	1.6	12	229	3.4	0.30	2.1	1.9	0.16	C
	7	4	8 40.3	19-21.2	155-12.8?	7.9	1.4	14	167	5.3	0.10	0.8	1.3	0.12	C
	7	4	31 50.1	19-20.9	155-13.9	5.7	1.6	12	163	4.4	0.21	1.2	1.4	0.21	C
	7	4	40 58.3	19-18.1	155-27.5?	8.4	1.5	12	95	3.4	0.13	1.2	1.0	0.18	B
	7	4	41 46.8	19-22.3	155-11.8?	1.7	1.5	11	138	3.5	0.19	1.4	2.7	0.28	C
	7	6	34 48.7	19-21.5	155-24.7?	7.1		10	113	3.4	0.14	1.3	2.3	0.19	B
	7	10	26 39.1	19-19.2	155-12.4?	0.0	1.7	20	174	6.9	6.02	1.1	11.3	0.25	C
	7	18	41 30.1	19-23.6	155-24.4	5.4	1.8	18	99	6.6	0.11	0.8	0.9	0.20	B
	8	1	3 43.5	19-17.8	155-17.0	30.0	3.9	26	167	2.9	0.17	1.1	1.5	0.13	C
	8	1	49 12.2	19-17.4	155-17.8	30.7	2.7	18	171	1.8	0.16	0.9	1.5	0.09	B
	8	3	45 47.7	18-47.2	155-15.6	8.0*	2.7	20	270	46.5	0.51	3.3		0.13	D
	8	3	52 33.7	18-49.9	155-17.6?	21.3	2.8	22	262	40.4	0.42	2.7	7.1	0.14	D
	8	4	30 28.2	18-50.9	155-17.4	14.2*	3.0	22	259	39.0	0.43	2.9		0.17	D
	8	5	2 14.5	18-49.2	155-17.3	7.8	2.8	18	264	41.8	1.83	3.1	10.2	0.13	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR	8	5	5 1.8	18-52.2	155-18.8	16.5*	2.7	19	255	35.6	0.29	1.9		0.19	D
	8	7	46 6.2	19-22.3	155- 5.5?	0.0		16	123	6.4	3.59	1.1	7.1	0.19	C
	8	8	3 16.5	19-17.3	155-17.6	30.0	3.1	27	149	2.2	0.13	0.8	1.2	0.13	B
	8	9	47 6.9	19-17.6	155-18.1	28.8	2.2	23	147	1.2	0.18	1.1	1.7	0.14	B
	8	19	40 57.7	19-22.3	155- 6.3	7.5	2.5	20	111	6.3	0.10	0.9	0.7	0.16	B
	8	19	55 12.2	19-19.1	156-23.1	8.5	2.9	22	279	53.6	0.42	4.5	10.3	0.16	D
	8	20	8 32.0	19-19.3	155-13.4	8.0*	1.5	14	205	7.2	0.12	0.8		0.11	C
	8	23	48 45.9	19-18.3	155-17.3	29.3		17	166	2.4	0.17	1.0	1.7	0.09	B
	9	0	45 45.9	19-17.9	155-17.4	29.2		16	168	2.1	0.18	1.1	1.7	0.10	C
	9	3	32 39.4	19-19.0	155-17.2	25.4	1.9	15	147	2.1	0.22	0.9	1.9	0.08	B
	9	4	42 20.2	19-18.8	155-17.3	26.1	1.7	15	152	2.4	0.24	1.0	2.1	0.09	C
	9	6	31 17.9	19-19.6	155- 8.7	8.5	1.9	14	173	4.9	0.11	0.9	2.1	0.11	C
	9	8	3 25.3	19-20.1	155-13.4?	0.7	1.4	17	155	6.0	2.03	1.0	7.7	0.26	C
	9	9	42 9.7	19-24.6	155-24.5	8.0*	0.2	10	208	8.3	0.12	0.8		0.08	C
	9	9	52 23.5	19-19.8	155-17.2	6.7	0.9	10	166	0.7	0.12	0.8	0.6	0.10	B
	9	11	29 17.8	19-17.4	155-16.9	32.2	3.2	23	151	3.1	0.15	1.0	1.5	0.14	C
	9	14	12 13.0	19-20.1	155-17.0	23.0		12	142	0.7	0.27	1.1	2.3	0.08	B
	9	15	33 6.3	19-20.6	155-12.3?	7.4	2.8	17	151	3.4	0.09	0.8	1.4	0.16	C
	9	16	41 40.4	19-20.8	155- 7.4	4.8	2.3	14	153	4.8	0.19	1.4	1.4	0.26	C
	9	18	1 45.0	19-18.6	155-15.4	9.7	1.7	14	188	4.4	0.09	0.7	0.7	0.08	B
	9	23	13 21.6	18-45.6	155-20.0?	5.1*	2.8	17	299	42.8	0.57	3.6		0.27	D
	10	5	19 53.0	18-48.8	155-18.9	2.5	3.1	14	271	41.2	1.22	2.9	7.0	0.11	D
	10	21	59 11.0	19-20.8	155-24.7	7.6	2.0	10	124	2.6	0.06	0.6	0.5	0.09	B
	10	23	20 50.4	19-21.1	155-24.2	5.1	1.6	10	158	2.2	0.12	0.7	1.2	0.12	C
	10	23	32 16.2	19-19.4	155-11.8	2.7	2.8	24	170	5.8	0.17	1.0	1.0	0.29	C
	10	23	35 24.6	19-20.2	155-12.0	8.5		12	204	4.3	0.11	0.7	1.2	0.08	B
	11	11	24 51.4	19-22.9	155-28.3	4.9	2.8	19	51	10.0	0.12	0.9	1.3	0.24	C
	11	12	40 16.4	19-24.0	155- 2.3	1.2	2.3	17	128	7.7	0.64	1.1	2.3	0.21	C
	11	13	32 49.9	18-50.4	155-17.5	1.8*	3.0	20	267	39.6	0.48	3.0		0.16	D
	11	21	34 59.5	19-20.5	155-15.9	8.1	1.1	12	132	2.7	0.07	0.6	0.4	0.09	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR 11	21	39	45.0	19-22.9	155-24.5	6.7		11	155	5.4	0.11	0.8	1.1	0.14	C
11	23	8	56.3	18-48.5	155-19.1	8.8	3.2	19	272	41.3	0.52	6.1	13.1	0.22	D
11	23	54	22.1	19-19.9	155- 8.3	3.1	2.1	20	169	4.8	0.20	1.2	1.3	0.28	C
11	23	58	37.6	18-46.3	155-15.0	8.0*	2.9	13	310	58.7	1.11	6.9		0.15	D
12	0	23	56.0	19-20.2	155-12.5	7.5	1.6	13	196	5.8	0.20	1.3	3.0	0.13	C
12	0	47	18.2	19-30.6	155-37.1?	10.3	2.1	16	142	24.2	0.54	1.2	4.0	0.21	C
12	1	32	29.3	19-21.7	155-16.1	5.7		10	190	1.3	0.17	1.1	0.8	0.13	C
12	4	25	30.8	19-24.2	155-24.2	8.1	1.7	17	69	7.5	0.07	0.7	1.8	0.13	B
12	4	48	28.9	19-24.1	155-24.1	8.0*		13	170	7.4	0.08	0.6		0.09	C
12	4	49	19.6	19-23.9	155-23.7	4.6	1.4	14	163	6.9	0.11	0.7	1.4	0.16	C
12	4	53	19.9	19-24.1	155-23.4	4.6		11	182	6.5	0.15	0.9	1.7	0.13	C
12	5	59	11.2	19-21.2	155- 7.7?	0.0	2.5	19	147	8.8	0.58	1.2	1.1	0.24	C
12	6	9	25.5	19-25.5	155-25.2	8.1	1.6	14	192	8.6	0.09	0.6	0.3	0.09	B
12	8	27	52.3	19-20.6	155-19.4	4.0	0.3	9	99	3.6	0.27	0.8	3.7	0.11	B
12	14	37	24.0	18-53.1	155-18.6	9.8	2.1	13	257	34.3	0.77	3.9	3.8	0.16	D
12	20	59	27.6	19-20.2	155-19.4	4.9	1.5	20	128	3.5	0.05	0.5	0.5	0.12	B
13	2	28	59.1	19-45.8	156- 2.9	2.9	2.4	18	234	23.5	0.24	1.0	0.9	0.09	C
13	5	50	36.3	19-19.7	155- 7.9?	6.9	2.4	21	154	5.6	4.24	1.5	7.8	0.35	D
13	10	5	22.2	19-20.6	155-12.9	12.5	1.5	11	180	6.1	0.17	0.6	1.4	0.05	B
13	11	40	2.0	19-25.1	155-23.6	4.8	1.6	11	186	6.8	0.15	1.0	1.4	0.15	C
13	16	59	45.0	19-19.5	155-13.5	6.1	1.5	15	198	6.8	0.20	1.2	1.0	0.19	C
13	18	10	5.6	19-19.9	155-14.1	4.5	1.9	13	183	5.6	0.23	1.2	1.6	0.22	C
13	20	44	47.9	19-19.8	155-15.3	5.4	1.4	9	172	3.7	0.22	1.4	1.4	0.18	C
14	0	0	58.3	19-20.9	155-24.5?	8.0	0.7	10	120	2.5	0.13	1.2	1.0	0.16	B
14	1	5	42.6	18-50.6	155-18.2	13.3	3.1	20	276	49.8	0.48	4.7	9.9	0.18	D
14	4	30	42.7	19-18.9	155-13.7	4.9	1.2	8	209	6.8	0.35	2.1	1.9	0.20	C
14	4	46	4.6	19-19.3	155-13.8	5.6	1.6	11	201	6.4	0.28	1.6	1.4	0.23	C
14	6	0	26.5	19-18.4	155-13.2	8.0*	1.9	8	224	8.0	0.21	1.4		0.12	C
14	21	11	10.5	18-49.6	155-17.0	2.2	1.9	18	263	41.4	1.41	3.2	9.0	0.14	D
15	1	47	2.4	18-52.5	155-17.7	9.5	3.1	22	255	36.0	0.52	2.5	2.8	0.14	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR 15	2	19	20.2	19-18.3	155- 7.0	3.9	3.5	22	212	8.5	0.34	1.7	1.3	0.23	C
15	5	38	16.1	19-30.9	155-59.5	0.2	2.3	20	223	25.0	0.61	2.1	1.5	0.24	C
15	6	10	43.1	19-19.1	155-13.7	8.0*	1.1	11	205	6.7	0.15	1.0		0.12	C
15	6	13	6.7	19-56.4	155-37.7	13.7*	2.0	19	137	25.0	0.20	1.8		0.28	C
15	9	27	34.2	19-23.6	155-25.2?	8.1	0.9	17	102	7.1	0.08	0.6	0.5	0.12	B
15	14	30	55.7	19-35.1	155-22.6	10.2	1.2	15	103	9.9	0.09	0.9	1.3	0.16	B
15	18	11	2.6	19-22.7	155-24.3	6.6	1.1	16	116	4.9	0.11	0.8	0.7	0.15	B
16	5	33	18.4	19-23.5	155-24.0	4.9	1.1	12	152	6.3	0.14	1.0	1.7	0.20	C
16	8	40	27.8	19-46.1	155-51.5	16.6	2.6	23	178	9.1	0.17	1.3	3.3	0.17	C
16	11	25	36.0	19- 9.6	155-41.7	3.8	0.8	9	131	12.7	0.16	1.2	1.5	0.19	C
16	17	48	43.8	19-19.5	155- 6.5	8.0*		12	178	6.3	0.18	1.6		0.21	C
16	18	40	33.2	19-19.5	155-16.6	9.6	1.4	7	216	1.7	0.10	0.5	0.7	0.02	B
17	9	42	4.2	19-18.5	155-13.1	9.7	2.8	16	156	7.4	0.05	0.4	0.6	0.07	B
17	17	10	44.5	18-49.9	155-16.0?	5.6*	2.5	11	321	41.7	1.08	6.5		0.13	D
17	20	16	19.8	18-50.4	155-19.2	8.5	3.3	21	260	38.3	0.41	2.4	2.2	0.14	C
17	23	41	37.2	19-19.6	155-16.1	9.7	1.5	7	231	2.4	0.22	0.9	1.4	0.02	C
18	1	26	48.0	19-25.1	155-17.2	13.4	1.3	13	119	0.5	0.04	0.4	0.5	0.05	A
18	2	6	10.4	18-34.1	155-10.5	3.9*	2.4	10	334	82.3	9.14	54.3		0.13	D
18	7	58	26.6	19-18.0	155- 8.6?	0.1	1.6	10	250	7.8	2.01	3.4	22.4	0.25	D
18	10	38	58.8	19-19.6	155-11.8	8.0*	1.7	11	168	5.7	0.09	0.7		0.08	C
18	13	23	38.0	19-17.8	155-13.0	6.4	2.7	24	162	8.6	0.12	0.8	0.6	0.19	C
18	13	31	38.1	19-18.5	155-13.2	8.6	1.4	14	196	8.0	0.10	0.8	1.5	0.09	C
18	15	9	15.2	19-17.8	155-12.8	8.0*	0.8	9	239	9.1	0.34	2.1		0.12	D
18	15	10	34.6	19-18.4	155-13.1	8.0*	0.9	9	228	8.1	0.34	2.1		0.12	D
18	17	8	49.5	19-24.2	155-22.8	9.6	0.8	10	168	5.5	0.21	0.9	2.4	0.10	C
18	17	26	50.1	19-19.2	155-16.4	9.4	0.9	10	175	2.4	0.33	1.9	3.0	0.13	C
18	19	33	13.3	19-18.1	155-13.1	8.0*	0.9	10	230	8.4	0.22	1.5		0.13	D
18	19	54	49.4	19-17.7	155-12.8	8.0*	0.9	8	239	9.3	0.35	2.3		0.14	D
18	20	43	11.8	19-18.2	155-13.0	8.0*	1.1	11	200	8.4	0.16	1.1		0.10	C
18	23	21	3.9	19-24.1	155-27.5?	1.8	2.9	22	109	10.3	1.43	1.6	10.3	0.33	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR 18	23	58	38.6	19-23.1	155-26.0	8.0*	0.6	13	195	7.2	0.15	1.0		0.13	C
19	0	18	7.8	19-22.5	155- 8.8?	7.9	1.4	19	178	2.0	0.14	1.3	0.7	0.17	C
19	7	29	20.1	18-49.0	155-16.0	2.0*	2.6	14	265	43.1	0.52	3.3		0.15	D
19	8	41	55.7	19-23.4	155-25.0	8.1	1.4	11	121	6.7	0.07	0.5	0.4	0.07	B
19	9	58	59.7	18-53.3	155-19.9	10.1	1.6	11	279	33.0	1.09	5.5	4.1	0.10	D
19	10	5	2.1	18-48.3	155-17.1	8.0*	3.1	16	273	43.4	0.51	3.3		0.14	D
19	10	16	39.7	18-57.7	155-38.8	43.6	3.9	26	263	3.0	0.52	2.5	3.7	0.13	D
19	10	35	21.8	19-20.3	155- 8.2	4.3		13	163	4.4	0.18	1.3	1.4	0.19	C
19	12	1	20.9	18-45.0	155-14.1	8.0*	2.7	14	288	51.2	1.50	9.3		0.20	D
20	0	20	5.3	19-19.4	155-24.5	5.9	1.2	11	112	2.6	0.10	0.8	0.9	0.15	B
20	7	55	11.7	19-24.4	155-24.5	8.0*		9	207	8.0	0.15	1.0		0.10	C
20	15	1	41.7	19-11.5	155-21.2	5.3	2.7	17	171	12.3	0.15	1.0	0.8	0.17	C
20	16	55	15.1	20- 0.8	155-33.6	42.0		14	198	26.3	0.83	3.8	8.6	0.20	C
20	17	42	26.2	19-23.4	155-26.2	8.0*	1.0	9	199	7.8	0.10	0.7		0.07	C
20	22	0	46.9	19-19.0	155-15.3	10.7	1.5	10	193	4.2	0.15	0.7	1.3	0.06	B
20	22	2	32.9	19-32.9	156-16.1	4.6	2.4	11	298	52.1	0.58	10.6	13.2	0.16	D
21	1	2	11.5	19-16.9	155-22.8	4.1	1.7	17	188	6.2	0.14	1.0	1.2	0.20	C
21	1	3	6.2	19-16.9	155-22.7	4.5	2.4	15	187	6.2	0.15	1.0	1.2	0.20	C
21	1	6	5.0	19-17.3	155-22.7	4.5	1.2	10	177	5.4	0.16	0.9	1.7	0.14	C
21	1	37	51.5	19-16.9	155-22.5	5.1	2.4	17	188	6.2	0.12	0.9	0.8	0.17	C
21	4	49	56.6	18-49.6	154-47.1	8.0*	2.6	8	333	71.9	2.09	71.5		0.20	D
21	10	5	32.4	19-19.6	155- 9.3	3.8	2.5	21	173	4.7	0.16	1.0	1.1	0.23	C
21	11	20	58.5	18-50.2	155-18.1	5.2	3.2	23	262	39.6	1.18	2.6	7.4	0.15	D
21	13	41	17.7	19-24.3	155-23.4	8.6		11	171	6.6	0.08	0.7	1.3	0.10	B
21	19	15	11.6	19-19.9	155-12.0	5.7	2.2	19	163	5.5	0.14	1.0	0.9	0.22	C
21	23	47	25.6	20- 5.3	155-31.8	53.4*	2.3	11	317	34.8	0.42	3.5		0.09	D
22	1	47	11.4	19-22.8	155-24.6?	8.1	2.0	18	99	5.4	0.08	0.5	0.5	0.11	B
22	1	52	22.5	19-23.1	155-24.0	6.2	1.6	11	185	5.4	0.12	0.8	1.0	0.11	C
22	2	28	2.9	19-21.1	155-14.0	6.3	1.4	14	159	4.1	0.19	1.1	1.1	0.20	C
22	4	48	23.1	19-10.2	155-36.5	6.3	2.3	17	101	8.7	0.18	1.0	1.1	0.23	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR 22	13	20	44.2	19-23.6	155-16.7	14.4		16	72	2.6	0.04	0.4	0.6	0.06	A
23	3	24	12.0	19-19.5	155-15.7	6.1	1.4	15	177	3.2	0.18	1.1	0.9	0.17	C
23	5	54	18.0	19-23.5	155-17.5	16.3		11	99	1.0	0.07	0.5	0.9	0.06	A
23	8	35	58.4	19-18.6	155-13.5	9.2	1.8	14	216	7.4	0.13	0.9	1.4	0.10	C
23	12	25	39.6	19-21.2	155-14.0	12.7	1.8	8	155	4.0	0.14	0.5	1.1	0.03	B
23	12	29	34.4	18-53.6	155-18.2	8.0*		10	263	39.4	0.69	4.7		0.12	D
23	13	47	15.2	19-20.3	155-12.9	8.0*	1.9	8	189	6.2	0.12	1.0		0.10	C
23	14	7	3.2	19-24.6	155-48.6?	0.0	1.8	10	121	17.1	4.65	0.8	8.8	0.08	C
23	19	6	39.4	19-20.4	155-12.6?	8.0*	2.0	8	210	5.7	0.33	2.4		0.17	C
23	19	22	36.3	19-20.8	155-11.7	9.6	2.2	11	194	4.0	0.12	0.7	1.2	0.07	B
23	21	8	26.4	19-20.5	155-11.5	9.2	1.4	8	221	4.2	0.13	0.7	1.2	0.04	B
23	21	47	17.2	19-20.8	155-11.6	9.1	1.4	9	194	3.9	0.11	0.6	1.2	0.05	B
23	22	23	34.8	19-17.6	155- 8.1	8.0*	1.8	7	254	16.9	0.46	2.9		0.11	D
24	4	31	29.9	19-16.1	155-24.2	0.9	2.2	14	151	7.7	1.57	1.0	5.7	0.18	C
24	16	16	41.7	19-19.8	155-12.1	8.0*	1.8	7	211	5.7	0.14	1.1		0.07	C
24	22	5	43.5	19-20.3	155- 9.2	8.3	2.0	8	228	3.5	0.22	1.6	1.7	0.07	C
24	22	29	49.8	19-21.0	155- 8.2	9.5	1.8	9	229	3.5	0.21	1.5	1.6	0.08	C
25	6	0	48.5	19-38.8	155-15.1	33.3	1.9	16	183	21.8	0.22	1.3	2.3	0.10	C
25	6	25	4.9	19-57.9	155-46.8	8.0*	2.3	17	294	39.4	0.25	1.6		0.10	D
25	6	43	31.2	19-20.4	155-11.6	5.0	2.4	11	207	4.4	0.28	1.7	1.7	0.21	C
25	6	44	24.3	19-20.4	155-11.8	8.0*	1.6	11	201	4.7	0.09	0.7		0.08	C
25	10	15	6.5	20- 2.6	155-45.7?	9.7*	2.1	13	157	9.5	0.08	1.2		0.11	C
25	12	55	21.5	19-19.4	155- 1.2?	2.5	2.1	15	227	15.9	0.31	1.7	1.3	0.18	C
25	17	39	36.9	19-21.9	155-17.3	23.8	1.6	11	109	2.6	0.19	1.1	1.8	0.09	B
25	21	39	52.8	19-17.3	155-47.0	6.1	2.2	16	143	9.6	0.13	1.7	1.4	0.16	B
25	22	18	34.5	19-20.7	155- 7.3	3.6	1.0	12	156	5.1	0.16	1.2	1.6	0.16	C
25	22	49	38.0	19-58.5	155-53.7	13.1*	2.6	16	217	20.9	0.16	1.2		0.11	C
26	2	35	4.2	19-19.0	155-18.1	31.9	1.3	14	138	2.1	0.20	1.1	1.8	0.08	B
26	3	33	20.4	18-52.8	155-17.5	8.3		11	286	35.8	0.86	4.7	2.9	0.10	D
26	3	47	48.9	18-53.5	155-17.5	10.4*	2.2	15	256	34.7	0.44	3.1		0.16	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR 26	4	13	43.4	19-10.7	155-22.1	24.0	1.7	14	207	13.3	0.25	2.1	2.8	0.18	C
26	4	48	23.4	18-52.4	155-16.0	5.2	2.7	13	256	37.8	1.58	3.4	10.1	0.15	D
26	5	46	19.8	18-51.5	155-17.8	8.0*	2.7	10	270	37.7	0.31	2.0		0.08	D
26	5	49	29.4	18-51.8	155-17.3	8.0*	2.1	11	288	48.4	0.82	5.3		0.10	D
26	6	25	36.8	18-54.6	155-20.0	9.8	2.5	10	275	30.8	0.33	1.9	1.2	0.04	C
26	6	29	41.5	18-51.2	155-16.8	3.4	3.0	16	258	38.9	1.54	3.6	9.2	0.13	D
26	6	35	53.0	18-52.0	155-17.1	4.5	3.0	15	275	37.5	2.10	4.1	11.3	0.14	D
26	6	45	24.9	18-56.4	155-21.5	8.8	2.8	10	266	32.6	0.87	5.3	3.0	0.13	D
26	6	48	0.9	18-53.4	155-18.7	8.7	2.7	11	280	33.8	0.87	4.9	3.1	0.12	D
26	7	3	23.9	18-52.6	155-17.7	8.3	2.5	13	268	36.0	0.53	3.0	2.2	0.09	D
26	7	10	15.8	18-57.0	155-16.4	4.1	3.0	18	265	30.5	0.49	2.4	3.2	0.21	D
26	8	53	53.9	19-21.4	155-16.7	24.4		17	110	2.4	0.12	0.8	1.2	0.10	B
26	9	34	11.2	19-24.4	155-24.8	8.0*	1.7	8	213	8.1	0.08	0.5		0.05	C
26	9	42	2.4	19-22.4	155-24.3?	6.0	1.0	8	210	4.4	0.35	2.0	3.5	0.10	C
26	10	4	10.9	19-20.0	155-11.5	8.0*		9	162	4.8	0.05	0.4		0.05	C
26	12	12	31.4	19-32.4	155- 6.5	8.0*	2.2	9	228	6.2	0.12	0.9		0.06	D
26	18	43	15.9	19-22.1	155-23.5?	8.0	1.8	9	121	3.6	0.10	0.7	1.1	0.10	B
26	20	46	58.9	19-19.9	155- 6.8	10.1	1.5	9	255	6.7	0.24	1.6	1.4	0.06	C
26	23	9	27.3	19-18.7	155-13.5	8.0*	1.6	8	216	7.3	0.15	1.1		0.10	C
27	0	33	37.0	18-53.3	155-17.4	8.2		12	282	35.1	0.69	3.8	2.5	0.10	D
27	5	53	39.6	19-22.4	155-22.8	7.2	1.4	7	164	4.1	0.42	1.0	3.2	0.07	C
27	7	18	35.1	19-21.5	155-15.2	28.7		12	138	2.0	0.19	1.0	1.7	0.06	B
27	7	38	57.2	19-19.4	155-15.7	6.4	1.9	15	179	3.2	0.15	1.0	0.7	0.17	C
27	8	4	38.1	19-18.6	155-11.7	11.8	2.2	10	228	7.3	0.27	2.3	2.0	0.18	C
27	11	3	23.8	19-19.5	155-13.9	6.4	1.8	16	163	6.3	0.13	0.9	0.8	0.18	C
27	12	41	2.9	19-20.4	155-11.4	8.1	2.1	7	209	4.2	0.09	0.6	1.2	0.04	B
27	18	59	40.2	19-21.9	155-24.2	7.1	2.2	18	126	3.6	0.09	0.8	0.6	0.17	B
27	22	53	57.6	19-26.8	155-24.5	8.0*	1.5	12	161	5.9	0.04	0.3		0.05	C
28	6	18	48.3	19-23.7	155-25.1?	0.0	1.6	12	176	7.1	8.87	0.8	16.9	0.14	C
28	9	2	36.7	19-20.4	155-12.5	8.0*	1.1	11	155	5.5	0.10	0.8		0.12	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
APR 28	14	10	45.4	19-19.2	155-13.6	5.8	1.6	21	148	6.8	0.12	0.9	0.7	0.22	C
28	19	15	22.3	19- 6.1	155-26.0	37.0	2.0	17	197	7.0	0.25	1.3	2.4	0.10	C
28	20	21	54.9	19-18.1	155-21.6	5.6	1.5	14	158	4.9	0.10	0.7	0.7	0.14	C
28	20	32	24.1	19-19.0	155-16.0	7.8	1.4	12	185	3.2	0.18	1.4	0.7	0.17	C
28	22	14	55.8	19-22.3	155-14.8	28.9	1.8	17	127	2.0	0.17	0.9	1.5	0.08	B
28	22	35	1.9	19-18.8	155-15.6	9.6	1.2	10	194	3.9	0.28	1.5	2.6	0.11	C
29	0	4	17.3	19- 8.6	155-33.5	45.1	1.9	15	132	10.0	0.71	2.9	6.4	0.18	C
29	1	58	5.1	19-20.0	155- 1.4?	0.0	2.2	11	229	15.2	4.41	1.6	8.2	0.13	D
29	6	23	30.0	20- 3.9	155-32.8	51.8	2.5	25	202	25.3	0.39	1.6	3.4	0.10	C
29	7	8	24.0	19-16.6	155-34.0?	8.0*	1.5	10	177	19.9	0.42	4.9		0.38	D
29	8	27	53.7	19-23.3	155- 4.0	0.4	2.5	23	161	6.6	0.51	0.9	0.9	0.23	C
29	16	29	48.7	19-24.4	155-24.9	8.0*	1.5	16	162	8.2	0.09	0.6		0.10	C
29	19	9	2.4	19- 5.7	155-28.3	37.5	2.3	21	180	7.1	0.26	1.3	2.4	0.12	C
29	19	39	53.4	18-54.7	155-18.8	23.3	3.1	21	247	37.8	0.34	1.8	8.7	0.17	D
29	21	50	12.1	19-11.2	155-31.4?	41.6	1.8	17	96	7.0	0.34	3.3	2.8	0.14	B
30	1	46	19.9	19-28.1	155-28.6?	0.0	1.5	20	121	9.8	6.48	1.0	12.1	0.20	C
30	3	22	15.5	19-19.3	155-14.1	8.0*	0.9	13	197	6.0	0.15	1.0		0.14	C
30	3	50	13.7	19-16.5	155- 0.9	34.9	2.0	16	225	7.3	0.47	2.1	4.1	0.12	C
30	7	29	27.9	19-13.0	155-18.2	25.3	1.7	23	172	9.3	0.15	1.0	1.7	0.13	C
30	10	30	18.4	19-23.1	155-23.2	8.0*	1.6	7	178	5.3	0.09	0.7		0.08	C
30	17	16	8.4	19-20.8	155-14.3	6.1	2.2	13	161	4.1	0.22	1.3	1.1	0.20	C
30	17	36	12.2	19-25.7	155-13.8	35.0	1.9	7	146	12.6	0.24	1.0	2.3	0.04	B
30	17	51	7.8	19-20.3	155-12.7	8.0*	1.6	8	192	6.0	0.12	0.9		0.09	C
30	22	41	51.6	19-22.0	155-24.7	7.9	1.5	10	131	4.2	0.07	0.7	0.5	0.08	B
MAY 1	2	6	44.8	19-20.2	155-12.0	8.0*	1.8	9	202	5.1	0.13	1.0		0.10	C
1	3	31	53.9	19-19.8	155-14.1	6.4	1.7	15	185	5.7	0.18	1.1	0.9	0.19	C
1	5	9	49.6	19-23.8	155-27.9?	7.6	2.0	16	145	10.5	0.09	0.7	3.0	0.11	B
1	9	52	27.2	19-19.3	155-12.7	3.7	2.1	13	213	7.2	0.23	1.3	1.3	0.18	C
1	9	55	34.3	19-18.1	155-13.8	13.4	1.6	7	226	7.4	0.20	1.3	1.6	0.05	C
1	14	24	2.9	19-18.6	155- 9.2	1.9	1.9	12	185	6.5	1.95	1.5	7.2	0.23	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY 1	15	31	38.3	19-16.5	155-11.7	8.0*	1.4	8	265	10.7	0.56	3.3		0.15	D
1	15	46	10.8	19-19.0	155-14.1	12.4		10	204	6.1	0.25	1.0	1.9	0.06	B
1	18	6	12.2	19-18.4	155-18.3	9.8	1.1	8	184	0.9	0.22	0.9	1.5	0.03	B
1	21	49	28.6	19-18.9	155-14.3	7.0	2.7	19	171	5.9	0.15	1.0	0.7	0.16	C
1	22	17	29.4	19-19.5	155-15.0	11.8		7	240	4.4	0.34	1.4	2.2	0.04	C
1	22	30	15.5	19-18.8	155-14.5	9.7	0.9	10	206	5.6	0.33	1.7	3.3	0.14	C
1	23	18	47.0	19-50.1	156- 7.4	48.8	3.2	18	251	34.0	0.41	1.9	3.2	0.09	C
1	23	28	7.4	19-19.5	155-14.8	11.3		7	242	4.6	0.35	1.4	2.1	0.04	C
2	0	3	14.2	19- 6.7	155-30.9?	25.7*	1.4	13	182	21.3	0.15	2.9		0.18	C
2	0	48	48.8	19-18.4	155-14.2	12.1	1.9	10	216	6.5	0.22	0.9	1.7	0.06	B
2	0	51	8.2	19-20.6	155-24.0	8.3	1.0	9	173	1.4	0.14	1.1	1.8	0.11	C
2	2	22	6.6	19-22.4	155-16.7	23.8	1.3	9	107	1.5	0.32	1.4	3.0	0.07	B
2	2	56	18.3	19-25.0	155-27.0	8.0*	1.1	8	249	11.1	0.18	1.1		0.05	D
2	5	4	2.5	19-23.6	155-16.5	39.1	2.2	9	106	0.9	0.71	1.9	6.1	0.06	B
2	5	18	35.6	19-22.7	155-25.3	8.0*	0.9	10	167	5.8	0.10	0.9		0.11	C
2	5	56	30.6	19-19.6	155-15.1	11.1	1.5	8	235	4.1	0.18	0.7	1.2	0.03	C
2	5	58	22.8	19-19.9	155-15.4	10.3	1.8	6	248	3.5	0.33	1.3	2.0	0.02	C
2	6	5	10.6	19-19.0	155-13.8	8.0*	0.8	8	208	6.7	0.14	1.0		0.10	C
2	6	25	20.5	19-19.0	155-13.4	8.0*		7	211	7.3	0.15	1.1		0.08	C
2	7	39	54.4	19-25.8	155-15.2	29.6	3.0	23	49	1.1	0.15	0.9	1.5	0.13	B
2	7	55	6.4	19-23.7	155-22.9	8.0*	1.4	13	119	5.5	0.05	0.4		0.10	B
2	9	31	50.3	19-19.8	155-11.7	8.0*	1.6	7	216	5.2	0.17	1.2		0.08	C
2	18	10	29.6	19-20.9	155- 8.1	10.5	1.6	9	157	3.7	0.17	1.3	2.1	0.08	C
2	22	39	15.3	19-26.0	155-27.0	8.0*	1.0	12	113	11.5	0.04	0.4		0.06	C
2	23	56	10.2	19-22.4	155-22.7	5.6	1.1	7	186	4.1	0.12	0.9	0.9	0.08	B
2	23	56	50.4	19-22.4	155-22.4	1.9*	1.1	6	176	4.3	0.10	0.6		0.07	C
3	2	27	4.8	19-21.8	155-14.7	10.4		7	149	2.4	0.17	0.9	1.5	0.05	B
3	2	43	45.5	19-24.2	155-17.1	13.4	1.4	16	87	1.5	0.06	0.6	0.8	0.10	A
3	14	34	37.8	19-24.8	155-24.0	7.8	3.0	20	63	7.7	0.09	0.7	0.6	0.18	B
3	15	36	29.3	19-19.5	155-16.3	10.2		7	215	2.3	0.16	0.7	1.1	0.02	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY 3	17	42	39.6	19-22.5	155-22.5	6.5	0.9	9	156	4.4	0.25	0.6	2.2	0.09	C
3	20	9	56.0	19-22.6	155-29.2	8.0*	1.8	11	157	11.2	0.04	0.4		0.05	C
3	21	47	54.6	19-19.2	155-15.4	6.1	0.9	11	185	3.8	0.26	1.4	1.7	0.18	C
4	1	7	28.0	19-27.7	155-29.5	8.0*	0.6	7	288	11.5	0.32	1.7		0.04	D
4	2	16	33.7	19-19.1	155-17.7	16.2	0.6	9	187	2.0	0.39	1.7	3.4	0.07	C
4	3	34	29.0	19-24.2	155-23.3	8.8	1.3	14	170	6.4	0.09	0.8	1.2	0.12	C
4	7	25	42.3	19-29.1	155-20.1	17.2	1.1	8	290	2.9	0.92	3.9	6.6	0.08	D
4	7	51	18.5	19-25.7	155-25.2	8.0*	1.7	11	127	8.3	0.05	0.5		0.08	C
4	11	32	12.0	19-18.6	155- 7.6	8.0*	1.8	7	202	7.5	0.09	0.8		0.05	C
4	16	27	54.4	19-22.8	155-25.9	8.0*	1.6	11	117	6.6	0.06	0.5		0.08	B
4	20	13	2.5	19-21.0	155-23.8	8.0	0.4	9	212	1.6	0.15	1.2	0.6	0.09	C
4	21	10	58.1	19-19.4	155-13.2	8.0*	1.2	10	204	7.2	0.12	0.8		0.10	C
4	21	47	38.5	19-23.0	155-25.8	8.0*	0.9	8	239	6.8	0.21	1.3		0.08	D
5	1	35	15.3	19-25.7	155-22.5	8.0*	0.8	8	162	4.8	0.09	0.8		0.10	C
5	2	0	31.0	19-23.9	155-17.4	12.5	0.7	10	112	1.2	0.14	0.6	1.2	0.07	A
5	6	33	58.1	19-20.8	154-53.9	26.9*	2.3	7	342	28.0	1.38	9.8		0.08	D
5	12	53	20.5	19-59.3	155-48.0	3.2*	2.5	13	201	15.6	0.12	1.2		0.10	C
5	21	44	21.9	19-23.0	155-22.4?	0.7	0.8	11	156	4.9	2.26	0.7	8.6	0.13	C
6	3	7	18.7	19-10.2	155-10.3	35.5	2.0	13	263	20.4	0.56	3.1	3.6	0.10	D
6	7	38	8.9	19-19.7	155- 9.1	4.2	1.5	17	171	4.5	0.17	1.2	1.3	0.24	C
6	10	34	10.0	19-22.3	155-23.0?	8.2		10	117	3.9	0.08	0.5	0.9	0.09	B
6	14	27	15.4	19-11.0	155-20.0	40.7	1.2	14	177	13.1	0.20	1.0	1.9	0.08	B
6	16	7	25.3	19-21.1	155-23.4	12.0	1.8	11	137	1.7	0.17	2.0	1.9	0.22	C
6	19	29	0.7	18-49.8	155-15.3	2.1*	2.8	22	263	42.5	0.42	2.7		0.15	D
6	20	0	50.4	18-49.6	155-15.0	8.0*	2.9	16	263	43.1	0.43	2.9		0.14	D
7	3	48	9.2	19-24.3	155-17.2	13.4	1.3	12	59	1.2	0.16	0.6	1.3	0.06	A
7	16	1	14.7	19-18.1	155-11.5	2.6	1.3	9	191	7.8	0.36	2.2	3.8	0.22	C
7	20	12	26.7	19-20.7	155-10.2	9.6	1.2	9	238	2.6	0.21	1.4	1.1	0.08	C
7	20	56	18.4	19-18.5	155- 4.9?	0.0	2.9	19	218	10.9	6.04	2.0	11.2	0.27	C
7	22	57	35.5	19-23.4	155-27.1	8.0*	2.0	9	128	8.9	0.04	0.4		0.06	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY 8	16	9	7.4	19- 7.9	155-38.3	0.7*		9	179	13.2	0.15	1.5		0.13	C
8	22	53	59.2	19-24.7	155-26.0	8.0*	1.6	15	111	9.5	0.05	0.4		0.08	C
8	23	14	45.9	19-22.5	155-24.4?	8.6	2.4	19	51	4.6	0.08	0.6	0.5	0.14	B
8	23	20	3.1	19-19.9	155-12.6	8.0*	1.3	8	199	6.3	0.12	0.9		0.09	C
8	23	27	19.4	19-24.7	155-15.6	19.3	1.0	13	91	3.8	0.12	0.7	1.3	0.09	A
9	0	9	9.2	19-19.7	155-16.2	9.9	1.5	6	227	2.3	0.19	0.7	1.3	0.01	C
9	0	18	34.1	18-51.9	155-17.3	8.0*	2.7	12	269	37.3	0.35	2.3		0.09	D
9	0	31	35.1	19-21.0	155-13.9	5.0	0.7	15	162	4.4	0.17	1.0	1.1	0.20	C
9	3	43	8.0	19-27.4	155-16.1	26.8	1.0	13	105	4.6	0.20	1.0	2.0	0.11	B
9	22	59	49.9	19-20.6	155- 8.2	10.1	0.8	10	168	4.0	0.10	0.9	1.3	0.06	B
9	23	6	22.5	19-21.8	155-25.7	8.9	0.1	8	251	5.1	0.44	2.4	3.3	0.09	C
9	23	45	46.4	19-19.6	155- 6.1	8.0*	0.6	9	187	5.7	0.25	2.6		0.23	C
10	0	43	27.2	19-22.4	155-22.0	2.1*	0.9	9	89	4.7	0.10	0.7		0.16	B
10	3	35	5.4	19-17.4	155-21.7	8.0*	1.3	8	251	5.5	0.43	2.5		0.13	D
10	5	18	9.4	19-23.7	155-26.2?	0.0	2.1	15	83	8.2	0.63	0.8	1.2	0.23	C
10	7	22	31.8	19-11.4	155-27.0	7.8	2.7	15	148	3.8	0.09	0.9	0.6	0.14	B
10	9	7	35.7	19-12.6	155-27.1	3.8	0.8	10	137	5.9	0.19	1.6	2.3	0.23	C
10	22	0	33.8	18-52.4	155-17.9	9.8	1.9	11	267	36.1	0.64	3.0	2.8	0.08	D
11	0	13	34.2	19-20.0	155-11.0	8.1	0.9	7	226	4.3	0.16	1.2	0.6	0.06	C
11	8	4	13.3	19-20.6	155- 8.8	9.2	1.3	8	227	3.2	0.23	1.7	1.7	0.09	C
11	18	28	34.4	19-22.1	155-24.1	6.3	0.5	8	195	3.9	0.16	1.1	1.1	0.11	C
11	18	38	23.4	19-11.1	155-32.4	6.8	3.0	20	100	8.6	0.14	1.0	0.9	0.22	C
11	18	43	4.2	19-14.9	155-24.3	8.0*	0.7	9	172	15.5	0.20	2.7		0.20	C
11	19	36	41.7	19-18.9	155-14.7	11.2	1.6	10	200	5.2	0.19	0.8	1.6	0.07	B
11	19	46	55.2	19-20.1	155-11.9	8.0*	1.5	9	206	5.1	0.13	1.0		0.09	C
11	23	33	30.1	19- 9.2	155-36.1	34.2	2.1	15	152	10.7	0.33	1.3	3.3	0.09	C
12	14	3	58.9	19-17.4	155-24.4?	4.0	1.0	14	118	5.6	0.12	1.0	1.0	0.19	C
12	15	21	22.6	19-29.8	155-46.2	6.3	1.2	13	191	18.0	0.55	1.1	4.1	0.09	C
12	15	44	43.3	19-19.8	155-15.1	6.7	0.7	17	141	4.1	0.09	0.8	0.7	0.16	B
12	16	8	23.1	19-20.2	155-16.1	9.6	1.4	9	207	2.3	0.17	0.8	1.2	0.05	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY	12	20	16 31.1	19-54.8	155-57.4?	17.8*	2.1	12	312	54.3	1.07	6.7		0.14	D
	13	20	16 16.6	19-22.3	155-25.5	8.0*	1.4	11	139	5.4	0.06	0.5		0.08	C
	13	20	37 9.1	19-22.8	155-24.9	8.0*	0.9	13	137	5.5	0.08	0.7		0.11	C
	13	20	47 24.4	19-25.4	155-28.9	7.2	1.1	20	193	12.6	0.19	1.3	0.9	0.18	C
	13	21	52 22.9	19-25.6	155-28.8	7.3	0.8	11	195	12.3	0.16	1.0	0.7	0.10	C
	14	0	26 13.6	19-25.6	155-23.4	8.0*	0.6	16	130	5.9	0.08	0.6		0.14	C
	14	1	11 51.3	19-24.9	155-25.8	8.0*	1.3	14	158	9.6	0.07	0.5		0.09	C
	14	9	39 52.5	19-35.3	155- 8.8	8.0*		10	249	12.8	0.20	1.1		0.06	D
	14	12	33 46.3	19-25.4	155-15.6	17.6	0.9	10	126	4.4	0.26	1.3	3.2	0.12	B
	14	13	15 18.8	19-23.0	155-25.6	8.0*	1.5	11	145	6.5	0.07	0.6		0.10	C
	14	16	49 10.6	19-19.6	155- 7.1	8.0*	0.6	6	187	6.7	0.14	1.4		0.08	C
	14	18	1 33.1	19-25.4	155-27.2	8.0*	1.0	9	223	10.7	0.15	0.9		0.07	C
	14	19	22 53.2	19-19.6	155- 7.6	25.7	0.7	8	253	6.1	0.86	5.1	6.3	0.11	D
	14	19	34 48.0	19-21.2	155-14.4	11.9	1.5	9	152	3.4	0.13	0.5	1.0	0.03	B
	14	20	3 35.9	19-22.9	155-24.3	8.0*	1.7	13	132	5.4	0.07	0.6		0.12	C
	15	2	4 45.7	19-20.8	155- 4.9	0.4	2.1	15	251	8.9	7.20	2.0	13.2	0.13	D
	15	2	45 47.7	19-32.7	155- 6.3	8.0*	0.8	8	236	6.3	0.24	1.7		0.09	D
	15	4	5 36.0	19-28.7	155-15.7	25.3	3.3	23	66	5.9	0.15	1.0	1.7	0.14	B
	15	5	4 27.8	19-19.6	155-16.0	8.8	2.7	18	161	2.7	0.07	0.6	0.9	0.12	C
	15	18	56 36.3	19-20.0	155-11.0	11.2	1.1	13	227	4.4	0.31	1.3	2.2	0.08	C
	15	23	26 57.3	19-21.2	155-17.9	26.6	2.4	20	63	2.2	0.11	0.8	1.3	0.11	B
	16	2	17 13.1	19-16.6	155-22.2	6.1	2.8	25	137	6.7	0.08	0.7	0.6	0.19	C
	16	6	34 20.8	19-23.4	155-27.5	7.8	1.4	9	231	9.5	0.17	1.2	0.7	0.06	C
	16	14	17 33.5	19-19.2	155-18.4	6.5	1.8	9	146	2.2	0.17	1.3	1.0	0.13	B
	16	18	7 23.5	19-23.6	155-25.1?	4.1	2.8	18	76	7.1	0.11	1.0	4.6	0.22	C
	17	0	41 17.3	19-19.4	155-16.4	9.4	1.3	7	227	2.2	0.06	0.3	0.4	0.01	C
	17	1	47 20.8	19-21.1	155-28.6	0.6*	0.8	10	124	9.4	0.10	0.8		0.14	C
	17	2	49 3.7	19-22.4	155-26.8?	0.0	2.0	14	76	7.4	1.76	0.8	22.5	0.20	C
	17	2	50 8.0	19-23.6	155-16.3	17.6	1.8	8	106	1.1	0.97	3.7	8.8	0.17	B
	17	5	33 28.9	19-18.7	155-15.2	11.8	0.4	9	200	4.6	0.15	0.6	1.2	0.04	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY 17	6	53	59.2	19-26.3	155-27.1	8.0*	0.4	10	141	9.3	0.06	0.6		0.07	C
17	12	11	4.5	19-18.0	155-15.8	9.8	0.6	9	268	4.8	0.63	3.4	3.3	0.09	D
17	16	6	54.3	19-22.3	155-23.4	9.5	0.4	9	184	3.9	0.30	1.2	2.8	0.08	C
17	16	9	43.6	19-25.6	155-27.8	8.0*	2.0	16	76	11.1	0.06	0.5		0.11	C
17	16	41	9.7	19-19.2	155-13.5	13.7		8	204	7.0	0.12	1.0	0.6	0.05	B
17	21	58	20.1	19-22.7	155-24.6	8.0*	0.8	9	134	5.2	0.08	0.6		0.08	C
17	23	26	10.9	20- 0.9	155-14.1	58.3	1.6	16	227	17.9	0.71	3.1	5.8	0.13	D
18	2	13	35.6	19-19.9	155-16.6	8.9		7	208	1.4	0.10	0.6	0.8	0.02	B
18	5	23	26.9	19-32.2	155- 9.9	6.5		14	127	11.3	0.11	0.8	0.9	0.14	B
18	6	15	1.4	19-20.0	155-14.8	5.9	2.2	16	164	4.5	0.12	0.9	0.8	0.18	C
18	12	5	21.8	19-17.6	155-10.8?	0.0	2.5	16	191	9.5	4.30	1.0	8.1	0.19	C
18	12	47	13.9	19-18.3	155-14.8	10.6		9	214	5.6	0.16	0.7	1.3	0.05	B
18	17	1	40.2	19-21.7	155-16.4	25.0	0.8	9	124	1.7	0.37	1.6	3.3	0.09	B
18	17	19	10.1	19-20.3	155-19.2	26.7		16	126	3.1	0.14	0.9	1.4	0.11	B
18	19	0	29.2	19- 9.8	155-37.4	6.8	2.7	16	128	9.4	0.16	1.0	0.8	0.14	B
18	22	27	14.0	19-21.2	155- 4.9	6.2	3.1	21	118	4.3	0.14	1.1	0.7	0.19	B
18	22	49	22.6	19-23.6	155-23.5	8.0*	-0.0	7	184	6.3	0.11	0.8		0.08	C
19	0	2	52.3	19-27.9	155-52.3	7.1	1.7	13	187	8.0	0.13	2.7	2.9	0.10	C
19	0	51	11.6	19-22.1	155-25.0?	7.8	1.1	8	233	4.5	0.24	1.2	0.9	0.08	C
19	2	56	55.1	18-44.0	155-29.2	13.8*		17	298	47.1	1.27	7.9		0.15	D
19	5	50	6.7	19-18.8	155- 8.3	8.0*	1.0	9	244	6.7	0.38	2.4		0.15	D
19	6	11	34.5	19-20.1	155-12.2?	8.1	1.2	13	203	5.5	0.19	1.4	0.7	0.13	C
19	10	11	55.9	19-20.1	155-13.1	5.6	0.8	14	157	6.5	0.13	0.9	0.9	0.20	C
19	20	37	30.7	19-19.4	155-11.6	5.0	1.1	16	172	5.9	0.23	1.4	1.2	0.27	C
20	8	0	9.4	19-19.5	155-15.8	24.1	2.7	23	140	3.0	0.11	0.7	1.1	0.11	B
20	12	29	50.8	19-24.4	155-17.1	10.2	1.0	16	58	1.0	0.03	0.3	0.3	0.05	A
20	13	17	7.5	19-23.9	155-17.2	10.2	1.3	17	54	1.1	0.08	0.7	0.7	0.11	B
20	18	46	11.7	19-51.4	155-34.1	26.3	1.6	24	205	14.3	0.25	1.2	2.5	0.10	C
21	5	10	49.6	19-21.9	155-24.0?	8.3	1.7	13	62	3.3	0.08	0.7	0.5	0.12	B
21	7	13	32.8	19-20.6	155-24.0?	8.4	1.4	15	92	1.3	0.07	0.8	0.6	0.14	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY 21	10	12	24.7	19-22.1	155-23.9	8.0	0.2	7	201	3.7	0.41	2.3	4.3	0.09	C
21	18	52	29.2	19-40.8	156-20.5	46.5*	3.3	18	321	47.4	0.42	3.0		0.08	D
21	22	48	18.4	19-22.3	155-25.1	8.0*	0.5	11	136	5.0	0.08	0.6		0.10	C
22	1	56	27.7	19-17.9	155- 4.6	34.6	2.5	12	266	12.0	0.61	2.4	4.6	0.06	C
22	2	12	0.3	19-19.7	155-13.1	8.0*	0.5	8	220	6.9	0.18	1.2		0.09	C
22	5	37	3.9	19- 9.6	155-35.3?	5.9	3.1	18	201	10.3	0.25	1.8	1.8	0.20	C
22	7	59	16.6	19-27.9	155-27.2	8.0*		7	268	7.6	0.63	3.5		0.12	D
22	11	48	36.2	19-21.5	155-12.6	8.0*		8	160	6.0	0.07	0.6		0.05	C
22	12	12	24.2	19-22.4	155-23.7	8.6	0.6	9	158	4.0	0.11	0.7	1.8	0.09	B
22	19	30	9.6	19-23.4	155-28.4	8.0*	1.4	10	142	10.8	0.07	0.6		0.06	C
22	19	56	21.5	19-24.0	155-24.9	8.2	2.3	16	74	7.5	0.06	0.4	0.4	0.08	A
23	11	2	44.2	19-19.6	155-16.2	9.7	1.6	7	229	2.3	0.11	0.6	0.8	0.02	C
23	14	50	18.8	19-21.1	155-13.9	6.6	2.0	15	159	3.3	0.11	0.7	0.6	0.13	C
23	16	35	19.0	19-21.3	155-23.9	5.0	0.2	7	212	2.3	0.42	1.5	3.0	0.08	C
23	17	48	45.2	19-17.2	155-18.3	30.1		14	170	1.6	0.23	1.3	2.2	0.10	C
23	18	48	54.0	19-22.2	155- 4.7	6.3	1.3	8	138	5.3	0.17	1.3	1.2	0.17	B
23	20	34	38.9	19-28.8	156- 1.6?	8.0*	2.8	11	310	44.8	3.62	25.8		1.33	D
23	21	15	31.3	19-20.4	155-13.3	4.5	1.3	13	181	5.8	0.19	1.1	1.1	0.18	C
23	22	12	29.6	19-22.9	155-23.4?	7.3	2.0	14	66	4.9	0.06	0.7	1.4	0.13	B
23	22	36	39.8	19-22.8	155-22.8	8.0*	0.2	8	166	4.8	0.10	0.8		0.10	C
23	23	23	20.9	19-12.2	155-28.0	8.0*	0.9	9	121	4.9	0.17	1.6		0.23	C
24	0	39	13.3	19-36.8	155-14.4	8.0*	1.4	12	142	20.3	0.10	0.8		0.12	C
24	2	6	42.4	19-23.7	155-22.9	8.0*	0.7	8	170	5.6	0.06	0.5		0.06	C
24	5	55	13.2	19-50.2	155-39.6	11.8		11	111	22.1	0.13	1.1	1.4	0.14	B
24	9	23	15.4	19-20.8	155- 5.5	3.1		13	147	4.7	0.11	0.8	0.9	0.14	B
24	15	45	25.1	18-52.9	155-18.0	9.8		14	258	35.1	0.61	3.0	3.0	0.13	D
24	16	10	38.1	18-51.8	155-17.4	9.3		14	262	37.4	0.55	2.7	2.6	0.11	D
24	17	41	58.4	18-50.9	155-15.7	0.4*	2.5	17	260	40.5	0.50	3.2		0.13	D
24	18	8	0.9	18-51.4	155-16.8	7.3		12	271	38.6	2.73	5.3	13.9	0.12	D
24	18	37	36.5	18-52.3	155-18.2	9.5	2.9	15	260	35.9	0.66	3.2	3.3	0.14	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY 24	19	27	4.7	19-19.6	155- 8.5	4.0	2.5	20	172	5.0	0.18	1.1	1.1	0.24	C
24	19	39	20.8	19-22.5	155-22.9	1.8*	0.4	9	116	4.2	0.12	0.8		0.15	B
24	20	57	23.1	19-25.8	155-28.8	8.0*	1.0	11	81	12.1	0.03	0.2		0.05	C
24	21	55	25.8	19-18.1	155- 5.5?	0.3	1.3	10	272	10.6	3.03	3.8	8.7	0.16	D
24	22	10	27.1	19-54.2	155-56.4	15.4*	2.6	11	216	26.1	0.26	2.1		0.14	C
24	23	59	8.7	19-20.0	155-12.1	8.0*		7	205	5.5	0.14	1.1		0.08	C
25	4	12	33.6	18-51.7	155-17.5	1.7*		9	270	37.5	0.65	4.1		0.16	D
25	10	9	50.5	19-23.9	155-29.1	6.7	2.0	20	60	12.3	0.07	0.5	0.5	0.15	B
25	13	19	24.8	19-25.5	155-28.9	6.9	2.8	25	64	12.6	0.08	0.5	0.5	0.15	B
25	13	40	27.7	19-25.5	155-28.7	7.0	1.1	13	82	12.3	0.06	0.4	0.4	0.08	B
25	14	13	7.7	18-53.8	155-19.9	11.1*		11	266	32.2	0.70	4.9		0.16	D
25	15	34	15.7	19-19.0	155- 8.6	2.6	1.8	19	180	6.1	0.22	1.4	1.5	0.29	C
25	15	52	11.4	19-19.6	155- 8.5	5.8		13	173	5.2	0.20	1.5	1.2	0.21	C
25	17	11	19.5	19-24.5	155-17.3	10.7	1.0	13	62	0.9	0.07	0.4	0.6	0.04	A
25	17	21	26.7	19-24.5	155-17.3	10.4	1.0	9	70	1.0	0.11	0.5	0.9	0.04	A
25	18	29	48.5	18-50.4	155-16.3	2.2*	2.6	13	262	40.6	0.55	3.6		0.14	D
25	18	51	8.6	19-19.4	155-10.7	8.0*	1.4	13	173	5.2	0.12	0.9		0.13	C
25	21	27	9.3	19-24.3	155-17.9	9.1	1.1	8	105	3.3	0.13	0.8	1.6	0.08	A
25	21	28	24.6	19-18.4	155-14.7	12.6	1.2	8	212	5.7	0.23	0.9	1.8	0.05	B
25	21	33	57.7	19-20.8	155- 9.9	12.4	1.2	9	248	2.3	0.53	2.7	4.0	0.06	D
25	21	42	46.9	19-18.7	155-45.8	5.7	2.6	19	146	12.5	0.10	0.8	0.9	0.11	C
25	22	52	41.1	19-22.7	155-23.0	7.1	1.1	12	163	4.7	0.11	0.7	0.9	0.12	C
25	23	37	9.9	19-20.0	155-13.5	5.7	1.0	20	158	4.8	0.11	0.7	0.7	0.19	C
26	0	35	16.4	19-19.0	155-13.5	5.1	0.6	12	209	7.1	0.24	1.4	1.2	0.19	C
26	1	34	32.1	19-24.6	155-17.0	10.2	0.9	9	87	1.9	0.12	0.6	1.1	0.05	A
26	1	34	53.1	19-24.4	155-17.3	10.3	1.0	13	62	1.0	0.07	0.4	0.7	0.06	A
26	1	46	50.8	19-24.3	155-17.3	11.0	1.1	9	80	1.8	0.15	0.7	1.3	0.06	A
26	1	54	30.9	19- 9.0	155-27.4?	0.0	1.4	11	178	13.7	0.37	3.4	19.5	0.36	D
26	1	56	1.9	19-24.5	155-17.0	11.5	1.2	10	80	2.0	0.21	0.7	1.6	0.05	A
26	2	45	2.7	19-20.3	155-14.0	8.8	1.6	12	178	5.2	0.19	1.1	2.3	0.13	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY 26	3	54	58.2	19-24.4	155-17.0	11.8	1.4	9	96	1.9	0.29	1.0	2.4	0.08	B
26	4	5	23.9	19-18.2	155-46.2	5.6	1.6	9	173	11.5	0.17	2.0	1.7	0.12	C
26	5	2	12.5	19-24.2	155-17.0	9.0	1.0	6	110	1.5	0.22	1.4	2.5	0.07	B
26	5	23	8.3	18-54.5	155-20.0	8.8	1.5	9	275	30.9	0.72	3.9	3.0	0.08	D
26	5	50	31.1	19-24.5	155-17.4	10.9	1.1	8	111	2.2	0.19	0.9	1.8	0.07	A
26	10	1	26.8	19-24.2	155-17.8	9.8	1.3	8	84	1.9	0.12	0.5	1.0	0.03	A
26	11	48	19.9	19-24.3	155-17.4	10.9	1.5	6	96	1.8	0.37	1.2	3.1	0.04	B
26	11	52	5.7	19-24.3	155-17.3	9.6	1.2	7	100	1.9	0.26	0.9	2.2	0.06	B
26	16	15	15.5	19-20.3	155-13.4	9.3	1.5	11	183	5.9	0.26	1.2	2.5	0.10	C
26	18	48	49.8	18-50.1	155-19.0	8.0*		9	267	39.1	0.22	1.4		0.05	D
26	19	6	55.5	19- 9.9	155-20.2	43.3	2.5	20	181	13.5	0.29	1.3	2.7	0.11	C
27	2	0	33.9	19-24.2	155-17.2	10.8	1.1	11	65	1.4	0.18	0.7	1.5	0.06	A
27	5	2	49.6	19-24.1	155-17.7	9.1	1.3	8	94	1.9	0.07	0.4	0.6	0.02	A
27	6	32	21.7	19-24.4	155-23.7	8.0*	0.6	12	189	7.1	0.10	0.7		0.10	C
27	7	6	45.7	19-18.1	155-47.1?	5.8	1.2	6	182	9.8	0.24	3.1	2.4	0.08	C
27	9	53	29.9	19-19.9	155-16.7	9.4		7	206	1.3	0.09	0.5	0.7	0.02	B
27	10	28	12.1	19-19.8	155-16.4	9.5		7	217	1.8	0.20	0.9	1.4	0.03	B
27	10	33	38.2	19-11.4	155-16.5	42.1	1.4	17	184	12.7	0.27	1.2	2.5	0.09	C
27	10	36	11.0	18-56.5	155-20.9	11.5	3.6	28	239	27.0	0.31	1.6	1.8	0.12	C
27	11	14	53.2	19-22.1	155-23.5	9.9	1.5	19	60	3.6	0.04	0.4	0.6	0.09	A
27	11	17	12.7	19-22.3	155-23.2	9.3	1.1	11	118	3.9	0.09	0.7	1.2	0.09	A
27	14	6	48.8	19-20.1	155- 7.8	9.4	1.2	10	166	5.1	0.20	1.5	2.8	0.13	C
27	14	33	28.2	19-19.9	155- 9.2	8.9	1.4	7	168	4.2	0.14	1.4	2.4	0.09	C
27	18	51	27.6	19-16.1	155-22.7?	0.1	1.5	17	192	7.7	9.53	2.2	17.4	0.19	C
27	22	2	14.6	19-20.5	155-11.9?	8.4	0.8	12	155	4.7	0.08	0.7	0.5	0.11	C
28	0	33	57.5	19-24.1	155-17.2	9.9	0.4	14	54	1.4	0.04	0.4	0.4	0.06	A
28	8	4	28.4	19-24.7	155-16.8	10.8	1.4	9	101	2.0	0.15	0.5	1.2	0.03	A
28	17	13	11.8	19-24.0	155-25.8	8.0*	1.6	10	196	8.2	0.14	0.9		0.09	C
28	20	57	24.2	19-19.9	155-16.6	8.9	0.3	8	210	1.4	0.14	0.7	1.0	0.03	B
28	22	31	2.2	19-22.7	155-25.2	6.2	2.1	19	68	5.8	0.09	0.7	0.8	0.18	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
MAY 29	2	10	27.1	19-14.7	155-20.1	33.6	1.2	10	218	11.1	0.85	3.1	7.2	0.10	C
29	2	59	27.8	19-16.7	155- 6.4?	0.0	1.7	9	266	11.6	2.21	3.6	22.4	0.22	D
29	8	30	16.4	19-22.2	155-25.0	8.0*	1.6	9	135	4.8	0.06	0.5		0.09	C
29	15	33	50.8	19-20.8	155-13.2	8.0*	1.5	9	174	5.6	0.11	0.9		0.10	C
29	17	16	23.6	19-20.1	155- 8.7	8.8	1.2	12	165	4.2	0.15	1.2	2.5	0.12	C
29	17	54	45.4	19-20.2	155-12.4	8.0*	0.4	9	198	5.7	0.12	1.0		0.11	C
29	21	55	0.6	19-28.6	155-25.3	7.1	2.0	13	167	4.1	0.10	0.7	0.5	0.11	C
30	1	6	3.8	19-18.5	155-12.9	20.1	1.1	8	225	8.4	1.00	3.7	8.3	0.10	C
30	7	19	2.8	19-20.3	155-11.3	5.2	1.6	19	159	4.2	0.17	1.1	0.9	0.25	C
30	9	12	55.5	19-23.0	155-29.5	3.0	0.6	16	64	12.0	0.14	0.9	1.6	0.23	C
30	9	46	34.4	19-30.1	155-57.8?	8.6	2.4	14	257	60.3	0.45	3.8	9.5	0.15	D
30	9	56	21.0	19-13.1	155-21.6	25.6*	1.7	6	316	13.3	0.31	3.0		0.05	D
30	19	10	7.1	19-19.3	155-10.2	8.0*	1.4	13	175	5.1	0.10	0.8		0.12	C
30	19	22	14.8	19-13.1	156-14.6	1.9	2.9	19	299	65.7	0.32	5.2	3.2	0.12	D
30	20	27	37.8	19-24.2	155-17.5	10.0	1.3	12	60	1.5	0.09	0.5	0.8	0.05	A
30	23	50	30.2	19-12.9	155-22.3	25.0	1.2	14	245	13.5	0.30	1.9	2.1	0.10	C
31	0	4	25.5	19- 9.7	155-22.0?	31.5	1.3	20	198	14.9	0.19	1.5	1.7	0.14	C
31	1	0	20.6	19-24.5	155-17.0	10.1	1.2	11	66	0.7	0.14	0.7	1.2	0.08	A
31	3	40	26.5	19-19.4	155-15.1	5.5	1.2	17	185	4.2	0.16	1.0	0.7	0.18	C
31	7	0	51.4	19-31.2	156-29.6	3.6	3.1	25	246	60.0	0.42	3.2	4.4	0.19	D
31	7	27	19.2	19-29.8	155-50.9	15.3*	2.7	12	226	25.6	0.23	1.7		0.12	D
31	9	55	7.3	19-20.6	155-17.5	4.9		13	131	0.9	0.10	0.8	0.6	0.12	B
31	18	11	24.7	19-19.7	155-15.8	5.6	0.7	15	170	2.9	0.14	0.9	0.7	0.17	C
31	19	28	22.2	19-25.4	155-17.4	10.0	0.9	9	195	0.3	0.15	0.7	1.0	0.03	B
31	19	29	16.0	19-24.3	155-16.6	8.3	0.8	10	81	2.6	0.06	0.5	0.8	0.06	A
31	19	30	30.5	19-24.5	155-17.0	7.9	0.7	12	75	0.7	0.04	0.5	0.3	0.07	A
31	21	55	19.3	19-19.6	155-13.3	4.4	1.1	12	200	7.0	0.28	1.6	2.1	0.24	C
31	22	9	12.0	19-19.3	155-25.9	5.7	1.2	12	94	4.8	0.14	1.5	1.5	0.24	B
31	22	22	40.3	19-24.3	155-16.9	9.9	1.5	13	74	1.7	0.15	0.9	1.1	0.10	A
JUN 1	2	20	48.6	19-55.8	155-31.6	37.0	2.1	14	232	19.6	0.54	2.4	4.7	0.10	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972		HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUN	1	4	36	12.0	19-18.1	155-14.5	11.4	1.1	10	219	6.3	0.20	0.8	1.6	0.06	B
	1	4	44	32.9	19-24.6	155-16.6	1.0	0.7	10	96	0.8	0.06	0.3	0.3	0.11	B
	1	5	23	19.8	19-24.3	155-17.7	14.6	1.2	10	73	1.6	0.09	0.7	1.0	0.06	A
	1	7	50	44.8	19-24.3	155-23.2	4.1	1.0	11	178	6.3	0.18	1.1	1.8	0.17	C
	1	9	44	36.4	18-53.5	155-19.6	8.9	2.7	12	255	32.8	0.53	3.3	3.4	0.14	D
	1	12	40	51.1	19-19.1	155-11.6	3.3	1.3	13	176	6.4	0.22	1.4	1.8	0.24	C
	1	13	32	55.8	19-19.2	155-10.6	8.0*	1.3	11	230	5.5	0.24	1.5		0.12	D
	1	20	57	3.9	19-18.7	155- 9.1	3.7	1.2	13	184	6.4	0.21	1.4	1.9	0.21	C
	1	22	0	7.0	19-24.5	155-29.0	7.3	2.0	20	87	12.7	0.08	0.6	0.6	0.14	B
	2	0	50	21.1	19-18.2	155-46.2	6.6	2.1	14	152	11.4	0.09	1.1	1.0	0.10	C
	2	1	14	7.4	19-17.1	155-23.0?	3.4	1.4	18	129	5.7	0.10	0.8	1.1	0.20	B
	2	3	21	31.1	19-24.6	155-16.7	9.7	1.2	12	82	0.8	0.15	0.7	1.2	0.06	A
	2	6	27	51.6	19-20.1	155-12.5?	4.1	1.1	11	198	6.0	0.24	1.3	1.8	0.20	C
	2	9	3	21.1	19-23.7	155-23.4	7.7	1.2	13	171	6.4	0.12	0.8	0.7	0.13	C
	2	9	51	56.6	19-13.8	155-25.5	3.5	2.1	20	134	5.2	0.12	1.0	1.1	0.23	C
	2	10	34	45.1	19-19.1	155-12.2	5.0	1.3	15	174	6.8	0.18	1.1	1.2	0.22	C
	2	10	37	8.5	19-27.8	155-29.0	5.8	1.7	11	219	10.6	0.27	1.4	1.0	0.13	C
	2	16	12	34.6	19-25.0	155-23.8?	6.7	2.2	22	61	7.2	0.09	0.7	0.7	0.21	C
	2	17	19	45.5	19-20.5	155-13.1	8.0*	1.5	11	181	6.0	0.13	1.0		0.12	C
	2	19	26	11.4	19-20.0	155-12.6?	5.4	1.3	11	290	7.4	0.24	1.4	1.2	0.18	C
	2	23	34	28.4	19-12.1	155-27.6	5.7	2.5	20	113	4.8	0.10	0.8	0.7	0.17	B
	3	3	25	47.7	20-33.7	155- 3.6	8.0*	2.4	10	326	80.1	3.21	19.1		0.10	D
	3	4	3	0.9	19-12.7	155-28.4	11.2	1.6	8	114	5.9	0.28	2.8	3.2	0.17	B
	3	4	3	53.1	19-21.6	155-26.0?	2.5	1.2	14	131	5.4	0.16	1.1	1.5	0.24	C
	3	5	51	39.7	20-10.4	155- 5.6	42.7*	2.1	8	304	40.8	0.59	4.2		0.08	D
	3	7	45	3.7	19-19.9	155-14.4	26.4	1.3	15	155	5.3	0.17	1.0	1.6	0.09	B
	3	11	11	9.1	19-24.0	155-24.9	7.0	2.3	21	78	7.6	0.10	0.8	0.8	0.21	C
	3	11	29	53.3	19-24.3	155-24.4?	0.0	1.1	12	201	7.7	0.54	1.1	1.2	0.17	C
	3	11	32	59.2	19-20.6	155- 8.3	6.0	1.8	18	157	3.8	0.12	1.0	0.8	0.19	C
	3	12	20	15.5	19-16.7	155-25.2	4.2		10	121	2.7	0.22	1.7	2.3	0.27	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUN 3	12	38	47.7	19-24.4	155-25.3	8.0*	1.6	13	150	8.6	0.07	0.5		0.07	C
3	12	52	10.8	19-24.3	155-22.7	3.3	1.7	16	62	5.4	0.11	0.8	1.8	0.19	B
3	13	11	52.6	19-24.1	155-26.2?	0.0	1.7	10	142	8.8	1.34	1.3	21.5	0.20	C
3	13	40	53.4	19-35.2	155-23.5	8.0*	1.2	11	163	9.9	0.13	2.3		0.22	C
3	16	13	30.2	19-28.7	155-52.9	8.5	2.9	23	161	6.2	0.08	0.9	1.0	0.11	C
3	17	19	11.6	19- 8.6	155-25.8	13.2*	1.9	12	190	21.3	0.16	2.0		0.15	C
3	17	48	8.2	19-23.6	155-26.6?	2.5	0.9	18	129	8.6	0.20	1.1	2.1	0.24	C
3	23	20	43.7	19-22.3	155-22.8	7.9	0.9	14	144	4.0	0.17	1.5	1.0	0.22	C
4	0	28	0.9	19-18.2	155-13.2	7.1	2.2	21	182	8.2	0.11	0.7	0.5	0.14	C
4	0	49	48.8	19-18.1	155-13.1	8.0*	1.4	16	171	6.2	0.11	0.7		0.11	C
4	9	5	41.9	19-18.9	155-13.2	8.0*	0.5	9	215	7.6	0.14	1.0		0.09	C
4	9	24	54.5	19-20.3	155- 7.9	7.7	1.2	14	162	4.8	0.15	1.4	0.9	0.16	C
4	17	43	59.0	19-18.8	155-14.0	8.0*		9	209	6.5	0.17	1.2		0.14	C
4	20	28	46.1	19-24.2	155-16.1	20.0	1.6	20	63	3.3	0.10	0.8	1.3	0.12	B
5	10	44	33.7	19-20.2	155-12.0	5.8	1.3	20	143	4.3	0.11	0.9	0.7	0.19	C
5	16	55	34.8	19-22.4	155-25.2	8.0*	1.7	9	233	5.2	0.20	1.2		0.12	D
5	21	8	42.2	19-21.0	155- 8.1	9.2	1.8	13	150	3.6	0.15	1.1	2.2	0.12	B
5	21	30	35.7	19-13.3	155-12.9	13.0	1.1	8	312	13.3	1.02	4.9	3.3	0.04	D
6	2	1	7.5	19-24.7	155-17.2	10.1	1.6	10	66	1.5	0.11	0.5	0.9	0.03	A
6	13	16	1.8	19-16.5	155-33.8?	2.6	2.6	21	108	16.6	0.24	1.3	1.5	0.30	C
7	3	35	55.1	19-24.8	155-17.1	9.0	1.0	13	69	0.3	0.08	0.5	0.8	0.06	A
7	4	16	59.9	19-24.0	155-22.4	9.4	1.0	16	111	4.8	0.05	0.4	0.9	0.09	A
7	7	18	46.7	19-21.6	155-28.4?	8.4	2.4	24	51	9.3	0.11	0.6	0.8	0.14	B
7	7	56	43.9	19-23.7	155-26.2?	8.0*	0.7	14	200	8.2	0.36	2.3		0.25	C
7	8	51	23.6	19-26.0	155-22.3	6.9	1.0	18	95	4.0	0.08	0.7	0.6	0.16	B
7	11	25	9.6	19-19.7	155- 9.2	10.0	1.0	10	171	4.6	0.16	1.2	2.3	0.10	C
7	13	43	39.2	19-20.6	155-25.7	7.5	2.0	15	79	4.3	0.08	0.7	0.6	0.15	B
7	15	50	8.4	19-18.1	155-13.3	5.6	2.4	22	158	8.1	0.15	0.9	0.9	0.23	C
7	17	57	48.5	19-20.1	155- 7.2	8.0*	1.1	10	167	5.9	0.09	0.9		0.10	C
7	17	58	29.6	19-19.0	155- 9.4	4.8	1.6	13	182	5.8	0.24	1.5	1.8	0.25	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUN	8	0	7	2.0	19-18.9	155-13.3	8.0*	0.9	13	152	7.5	0.09	0.8		0.11	C
	8	0	26	38.0	19-22.8	155-24.7	7.2	0.7	20	53	5.3	0.07	0.6	0.6	0.15	B
	8	6	12	2.7	19-24.6	155-17.4	8.9	1.3	8	87	0.9	0.22	1.1	1.8	0.06	B
	8	9	55	22.4	19-20.1	155-11.1	5.6	2.5	22	161	4.2	0.15	1.0	0.8	0.26	C
	8	10	21	26.2	19-20.6	155-11.6?	8.1	0.7	17	154	3.9	0.09	0.7	0.4	0.12	C
	8	11	7	58.3	18-52.6	155-19.1?	8.0	2.9	12	259	34.8	0.27	1.9	2.6	0.09	C
	8	13	47	26.0	19-19.6	155-20.3	27.9	2.7	23	79	4.1	0.11	0.6	1.1	0.10	A
	9	3	37	51.7	19-22.4	155-24.7	9.2	0.9	21	51	4.7	0.05	0.6	1.4	0.12	B
	9	4	6	43.6	19-15.0	155-19.4	4.6	1.2	17	158	5.6	0.13	0.9	0.9	0.17	C
	9	14	8	44.8	19-12.1	155-24.1	8.0*	0.8	12	190	18.9	0.25	2.3		0.26	C
	9	19	28	28.6	18-45.5	155-36.2	20.0	1.8	21	302	25.5	0.26	3.0	7.9	0.16	D
	9	19	31	1.2	19-19.6	155-13.3	6.0	0.6	19	165	7.0	0.15	1.0	0.9	0.22	C
	10	0	6	12.3	19-19.1	155-14.0	8.0*	1.1	8	204	6.3	0.14	1.0		0.10	C
	10	0	6	26.1	19-19.4	155-14.3	6.4	1.0	18	192	5.6	0.15	1.0	0.7	0.19	C
	10	3	54	35.2	19-20.7	155-11.4	10.0	0.9	10	201	3.8	0.23	1.1	2.4	0.08	C
	10	4	3	41.9	19-18.4	155-15.7	6.0	1.8	23	149	4.3	0.12	0.8	0.7	0.19	B
	10	11	3	41.0	19-18.0	155-15.9	9.0	1.7	21	152	4.6	0.10	0.8	1.1	0.16	C
	10	11	43	22.2	19-17.8	155-15.5	9.4	1.2	8	274	5.4	1.46	7.3	6.8	0.15	D
	10	12	51	56.5	19- 9.5	155-40.9	2.7	2.2	13	126	11.9	0.17	1.3	1.5	0.24	C
	10	13	54	30.8	19-19.7	155-12.9	8.0*	1.0	11	201	6.8	0.11	0.8		0.09	C
	10	16	49	52.1	19-18.6	155-15.1	10.6	1.0	11	204	4.8	0.19	0.8	1.6	0.07	B
	10	18	22	42.9	19-22.8	155- 5.2?	0.0	1.1	11	134	6.7	9.61	1.1	18.4	0.20	C
	10	19	39	16.2	19-25.3	155-23.7	8.0*		10	190	6.6	0.15	1.1		0.12	C
	11	1	5	54.8	19-18.1	155-15.2	9.0	0.6	13	182	5.3	0.17	1.1	2.0	0.13	C
	11	1	7	27.6	19-20.1	155-12.4?	4.6	1.3	10	199	5.7	0.87	3.0	11.1	0.22	C
	11	2	41	22.6	19-17.5	155-15.0	9.9	0.7	14	231	6.4	0.23	1.2	1.9	0.10	C
	11	3	43	44.9	19-18.6	155-13.3	8.0*	0.6	11	220	7.7	0.21	1.5		0.15	C
	11	5	39	9.4	19-18.1	155-15.0?	6.0	0.8	15	210	5.6	0.22	1.3	0.8	0.18	C
	11	10	34	2.1	19-20.9	155- 7.9	7.5	3.2	24	132	4.1	0.11	0.9	0.6	0.21	C
	11	13	0	57.3	19-24.7	155-16.4	1.1	0.7	10	93	1.1	0.06	0.3	0.4	0.11	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUN 11	13	38	38.5	19-20.6	155-19.7	2.1	0.0	8	105	4.2	0.29	0.4	1.1	0.06	A
11	13	57	45.0	19-19.3	155-46.9	6.1	1.1	13	169	11.2	0.14	1.3	1.2	0.10	C
11	14	37	15.3	19-12.9	155-22.3	31.6	1.1	15	226	11.4	0.46	2.2	3.8	0.12	C
11	17	36	26.6	18-48.9	155-13.7?	4.9*	1.6	10	323	45.4	0.87	5.2		0.14	D
11	22	52	24.9	19-22.6	155-11.7	12.8	1.7	12	159	3.4	0.11	1.1	1.0	0.10	C
12	6	19	2.2	19- 9.7	155-31.5	6.3	1.9	19	124	6.4	0.13	0.9	0.8	0.17	B
12	13	12	52.9	19-15.4	155-26.6	6.2		13	113	1.9	0.10	1.1	0.8	0.20	B
12	16	6	38.3	19-12.6	155-33.3	6.3	2.7	21	98	7.8	0.12	0.9	0.9	0.19	C
12	16	35	52.6	19- 9.6	155-31.4	6.2	2.2	20	125	6.2	0.14	1.0	0.9	0.21	C
12	17	23	57.9	19-22.9	155-24.3	5.1		8	236	5.3	0.39	1.5	2.8	0.09	C
12	17	29	13.0	19-25.6	155-27.9	7.3	2.1	23	77	11.2	0.12	0.7	0.8	0.18	B
12	18	2	16.8	19-39.8	155-22.7	40.8	1.1	15	118	15.6	0.42	1.3	4.2	0.10	B
12	20	12	47.1	19- 9.4	155-31.4	6.2	2.3	17	130	6.2	0.14	0.9	0.8	0.17	C
13	1	44	2.6	19-19.1	155-30.4?	0.0	2.2	21	71	8.2	5.27	0.8	10.0	0.24	C
13	6	59	36.1	19-20.9	155-19.8	23.8	0.7	17	54	4.4	0.19	1.2	2.0	0.15	B
13	8	57	15.9	19-21.9	155-15.1	25.1		24	121	1.7	0.14	1.0	1.4	0.14	B
13	11	23	44.4	19-19.9	155-17.0	8.4	0.0	9	168	0.8	0.11	0.8	1.0	0.06	B
13	19	40	41.5	19-47.0	156- 9.9	5.3	1.2	14	306	67.7	0.25	6.4	7.2	0.11	D
13	20	19	52.7	19-19.3	155- 9.1	8.0*		13	178	5.4	0.08	0.6		0.08	C
13	22	28	11.9	19-23.6	155-23.4	8.0*	0.2	12	183	6.3	0.09	0.6		0.11	C
13	22	41	53.3	19-19.6	155-12.6	8.0*	0.5	13	166	6.7	0.11	0.9		0.13	C
14	3	3	8.7	19-20.3	155-17.7	5.6	1.0	14	75	0.7	0.11	0.7	0.9	0.14	B
14	4	23	18.4	19- 7.4	155-25.6	37.0	2.4	21	178	5.6	0.39	1.9	3.6	0.15	C
14	4	41	6.3	19-18.6	155-11.6	8.0*	1.0	9	252	7.0	0.33	2.0		0.11	D
14	7	54	20.1	19- 6.6	155-26.6	46.3	2.6	19	180	5.9	0.47	2.0	4.1	0.13	C
14	20	3	31.4	19-23.7	155-26.4?	8.1	1.4	19	73	8.4	0.07	0.5	0.5	0.12	B
14	20	6	28.8	19-22.5	155-26.1	3.6	1.1	21	72	6.4	0.10	0.7	1.2	0.23	C
14	20	14	24.1	19-23.0	155-26.5	8.2	0.9	15	74	7.6	0.14	0.8	1.0	0.15	B
14	23	33	2.4	19-19.4	155-11.5	8.0*	0.7	13	224	5.7	0.15	1.0		0.09	C
14	23	40	5.1	19-15.8	155-21.6	1.2	1.5	21	146	8.7	1.10	0.7	4.0	0.17	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUN 15	1	31	28.7	19-16.9	155-23.8	3.7	0.7	9	182	5.3	0.14	0.9	1.6	0.11	C
15	4	45	47.9	19-20.9	155-47.4?	6.2	2.5	19	129	12.4	0.10	0.7	0.7	0.13	C
15	6	5	7.0	19-20.8	155- 6.1	1.6	1.5	19	201	7.0	1.39	1.2	4.9	0.17	C
15	9	41	18.6	19-53.7	155-40.8?	9.2	2.3	15	122	27.8	0.48	5.5	11.5	0.34	D
15	12	40	25.2	19-26.1	155-45.4	13.4*	1.5	15	198	17.5	0.12	1.0		0.08	C
15	13	55	49.0	19-53.2	155-40.7	14.2*	2.5	21	121	25.8	0.10	0.9		0.12	C
15	22	36	30.8	19-19.6	155-11.8	3.4	0.9	19	168	5.4	0.18	1.1	1.6	0.28	C
16	14	40	10.3	19-19.0	155-25.2	6.3	1.9	12	110	4.0	0.10	0.8	0.7	0.13	B
16	15	6	21.7	19-18.9	155-24.9	6.1	2.2	14	115	3.8	0.10	0.8	0.6	0.15	B
16	18	59	11.0	19-19.7	155-11.4	8.0*	1.4	13	168	5.2	0.08	0.7		0.12	C
16	20	49	11.6	19-21.1	155-17.4?	2.6	1.1	11	135	1.8	0.17	1.2	1.6	0.19	B
17	6	7	59.2	19-19.4	155-12.6	4.0	1.3	11	212	6.8	0.26	1.5	1.9	0.20	C
17	15	8	7.4	19-22.1	155-25.8	2.7	2.2	21	71	5.5	0.11	0.8	1.4	0.26	C
17	16	18	51.7	19-22.7	155-22.1?	1.1		10	110	4.6	0.21	0.8	0.9	0.17	B
17	19	12	35.9	19-20.8	155-15.8	28.1	1.7	13	130	2.9	0.20	1.1	1.8	0.10	B
18	2	20	22.4	19-25.2	155-24.4	8.0*	1.2	14	184	7.6	0.07	0.5		0.07	C
18	4	29	34.7	19-20.8	155-12.5	8.1	1.4	14	203	3.1	0.27	1.8	0.7	0.17	C
18	5	55	22.1	19-23.0	155-24.0	8.0*	1.6	10	163	5.2	0.09	0.8		0.10	C
18	5	56	0.7	19-20.1	155- 8.8	4.6	1.6	18	165	4.0	0.15	1.0	1.1	0.22	C
18	11	0	22.0	19-23.7	155-18.7?	11.9	1.2	20	52	1.7	0.08	0.8	0.9	0.18	B
18	13	14	12.0	19-23.7	155-17.9	14.3	0.8	11	54	1.8	0.07	0.6	0.8	0.07	A
18	13	58	50.1	19-23.7	155-17.5	12.4	1.8	18	48	1.1	0.06	0.8	0.6	0.12	B
18	16	4	33.8	19-20.3	155- 9.5	10.6	0.2	8	161	3.3	0.12	0.9	1.8	0.05	B
18	16	11	15.7	19-23.6	155-17.3	13.3	0.8	14	50	0.8	0.04	0.5	0.4	0.08	A
18	21	8	9.0	19-23.3	155-26.2	0.8*	1.0	16	72	7.6	0.11	0.7		0.21	C
19	10	40	41.2	19-23.5	155-24.6	8.0*	1.2	17	73	6.5	0.08	0.7		0.15	B
19	13	23	46.3	19-18.8	155- 9.4	7.0		13	184	6.1	0.21	1.6	1.0	0.19	C
19	13	40	5.9	19-23.8	155-16.4	17.4	0.6	14	89	1.2	0.07	0.5	0.8	0.07	A
19	16	18	57.1	19-19.2	155- 8.6	8.0*	0.3	8	180	5.7	0.08	0.6		0.07	C
19	21	52	51.5	19-21.3	155-11.5	12.3	1.0	9	144	3.3	0.19	1.0	2.0	0.08	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUN 19	22	2	58.4	19- 1.8	155-23.1	34.9		22	213	16.5	0.36	1.8	3.2	0.14	C
19	22	55	28.1	19-21.3	155-13.4	7.4	2.4	26	130	2.5	0.08	0.7	0.5	0.19	C
20	0	17	35.6	19-18.1	155-15.4	8.0*	0.5	7	213	5.7	0.18	1.2		0.10	C
20	5	6	13.5	19-21.7	155-24.5	10.0		10	128	3.5	0.13	0.8	1.9	0.10	B
20	5	53	25.3	19-19.4	155-11.5	2.9	2.4	24	152	5.7	0.19	1.1	1.3	0.27	C
20	5	55	16.5	19-20.8	155-12.0	7.3	0.7	16	181	4.4	0.13	1.0	0.6	0.15	C
20	6	0	12.5	19-20.5	155-11.3	5.1	1.5	20	155	3.8	0.11	0.9	0.8	0.23	C
20	10	56	7.4	19- 6.7	155-37.2	5.3	1.5	12	125	15.1	0.21	1.7	1.8	0.25	C
20	12	9	38.2	19-18.4	155- 8.4	3.3	0.8	14	190	7.4	0.22	1.5	1.6	0.23	C
20	16	8	27.5	19-23.4	155-28.1	7.8	0.8	16	83	10.3	0.13	0.6	0.9	0.12	B
20	22	19	31.8	19-20.1	155-12.4	5.7		23	143	4.3	0.12	0.9	0.7	0.24	C
21	1	17	38.8	19-19.9	155- 9.2	7.8	2.6	23	144	4.1	0.10	0.8	0.6	0.16	B
21	7	19	26.8	19-19.9	155-10.8	5.3	1.1	17	165	4.3	0.15	1.1	0.9	0.22	C
21	8	40	49.6	19-23.8	155-17.6	13.5	1.0	19	47	1.4	0.05	0.5	0.6	0.08	A
21	11	38	25.5	19-21.6	155- 2.2	7.4	3.6	24	153	3.4	0.13	1.0	0.8	0.16	C
21	15	18	56.8	19-28.8	155-15.5	23.9	0.9	16	166	6.2	0.11	0.8	1.1	0.07	B
21	16	31	10.4	19-18.9	155-13.5	6.5	2.3	22	151	6.7	0.14	0.9	0.7	0.21	C
21	18	3	45.2	19-20.1	155-11.1	12.2	1.5	10	221	4.2	0.34	1.3	2.9	0.08	C
21	20	14	8.5	19-26.6	155-52.6?	8.2	1.5	15	153	9.8	0.15	1.7	2.4	0.12	C
21	21	38	24.5	19-25.3	155-22.5	8.0*		12	163	5.3	0.06	0.5		0.07	C
21	23	45	41.8	19-19.6	155-12.6	3.1	1.1	18	166	5.3	0.17	0.9	1.2	0.21	C
22	1	4	51.7	19-17.6	155-13.9?	8.0*	1.7	13	196	7.7	0.35	2.3		0.32	D
22	2	49	53.9	19-25.1	155-25.0	8.0*	1.0	18	126	8.9	0.11	0.8		0.14	C
22	7	22	16.8	19-23.1	155-25.5	8.0	1.1	20	53	6.7	0.10	0.6	0.7	0.13	B
22	18	40	11.8	18-53.4	155-16.3	8.0*	2.2	12	272	45.5	0.76	5.2		0.14	D
22	19	7	39.5	19-22.8	155-22.4	8.0*	1.5	9	155	4.9	0.09	0.7		0.11	C
22	19	9	56.3	19-20.6	155-16.1	33.4	1.7	15	147	2.5	0.20	1.2	1.9	0.10	B
22	21	0	4.5	19-21.5	155-25.4?	0.8	1.3	14	97	4.4	2.18	1.0	8.1	0.23	B
23	0	2	49.2	19-59.1	155-37.3	14.2*	2.6	13	156	22.9	0.15	1.9		0.19	C
23	0	25	49.6	19-14.8	155-21.3?	0.0		15	214	7.4	9.20	1.6	17.5	0.19	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUN 23	1	0	38.2	19-20.6	155-19.6	3.2	0.8	11	75	3.9	0.05	0.4	0.8	0.07	A
23	3	23	10.1	19-20.3	155-12.6	6.3		19	182	3.9	0.13	0.9	0.7	0.21	C
23	7	35	25.5	19-20.1	155- 5.2	3.6	1.9	12	208	8.9	0.26	1.8	1.3	0.20	C
23	13	53	6.7	19-20.1	155- 5.4?	0.0	1.9	17	208	8.6	6.88	1.7	12.8	0.23	C
23	21	20	36.0	19-19.4	155-14.7	9.3	0.7	8	189	4.9	0.28	1.9	3.1	0.13	C
23	21	46	54.9	19-19.9	155-14.3	8.0*	0.9	16	179	5.4	0.12	0.9		0.15	C
23	22	11	8.4	19-19.3	155-16.1	6.4	0.5	13	177	2.8	0.14	0.8	0.8	0.13	C
23	22	46	39.4	19-24.6	155-15.6	22.8	0.7	18	73	1.7	0.15	1.0	1.6	0.14	B
24	7	22	41.2	19-25.3	155-27.9	7.0	2.1	21	54	11.6	0.09	0.7	0.7	0.16	B
24	8	3	57.4	19-18.6	155-14.6?	8.3	0.3	12	209	5.6	0.27	1.5	2.7	0.15	C
24	9	3	50.1	19-27.1	155-22.3?	7.7	2.8	22	84	2.9	0.06	0.6	0.5	0.16	B
24	9	38	10.6	19-26.8	155-22.5?	7.7	1.4	16	80	3.4	0.09	0.7	1.3	0.14	B
24	11	28	9.8	19-19.2	155-18.4?	7.1	0.9	10	139	2.4	0.15	1.0	0.5	0.07	B
24	11	36	42.3	19-19.9	155-14.1	7.6	1.2	16	181	5.6	0.11	0.8	0.5	0.13	C
24	12	10	18.7	19- 2.8	155-27.0	51.4		16	201	12.4	0.76	3.4	6.3	0.18	C
24	20	31	36.8	19-22.6	155-22.4	6.5	1.0	11	152	4.7	0.11	0.6	0.8	0.09	B
25	0	55	23.2	19-20.1	155-16.1	8.9	0.8	10	158	2.4	0.25	1.6	2.7	0.12	C
25	1	43	0.5	19-21.1	155-14.0	5.9	0.9	18	157	4.0	0.12	0.9	0.7	0.21	C
25	6	19	59.9	19-22.2	155-25.6?	8.1	3.1	25	58	5.4	0.08	0.7	0.7	0.19	B
25	12	44	55.8	19-21.0	155-13.3	8.0*	0.9	12	167	5.2	0.11	0.9		0.13	C
25	16	30	29.0	19-14.4	155-22.2	7.2	1.0	10	180	8.8	0.14	1.1	0.7	0.12	C
25	18	27	50.1	19-18.5	155- 4.9	8.0*		10	262	10.8	0.76	4.5		0.20	D
25	19	57	31.2	19-16.7	155-30.4	5.2	0.9	7	145	6.4	0.20	1.9	2.2	0.18	B
25	22	37	7.9	18-56.1	155-14.1	13.0*	0.9	12	246	34.6	0.86	5.8		0.26	D
26	1	43	39.5	19-20.4	155-15.6	6.6	0.9	17	154	3.1	0.08	0.7	0.5	0.13	C
26	6	11	5.6	19-22.8	155-25.8?	7.7	2.1	20	52	6.5	0.08	0.6	0.7	0.14	B
26	7	40	29.1	19-19.6	155-16.3	9.7	1.4	8	214	2.1	0.14	0.7	1.0	0.03	B
26	9	41	0.3	19-30.7	155-47.4?	7.2	1.3	12	107	13.8	0.13	1.7	2.6	0.19	B
26	15	56	41.5	19-22.1	155-22.6	7.9	0.2	7	156	3.7	0.09	0.7	0.7	0.05	B
27	12	57	57.9	19-20.4	155-10.9	8.0	2.3	15	222	3.5	0.11	0.8	0.9	0.10	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUN 27	14	7	36.0	19-19.6	155- 8.3?	4.6	1.9	14	238	5.3	0.47	2.6	1.4	0.24	D
27	20	10	13.7	19- 8.9	155-20.6	25.3	1.4	12	222	17.1	0.19	1.9	2.9	0.09	C
27	22	28	26.5	19- 8.4	155-23.8	32.2	2.4	15	194	7.4	0.32	1.6	3.2	0.12	C
28	4	5	17.0	19-21.9	155-23.0	4.9	1.5	12	138	3.1	0.11	0.9	1.0	0.18	B
28	5	12	20.0	20-12.9	156- 8.8	8.0*	1.7	17	308	86.7	0.18	1.4		0.09	D
28	12	15	10.4	19- 1.6	155-21.7	29.3	3.1	22	217	18.2	0.23	1.2	2.3	0.11	C
28	14	36	51.9	19-15.6	155-32.0	4.0	2.2	16	83	9.0	0.13	1.0	1.2	0.24	C
28	17	7	20.3	19-19.3	155-15.3	6.4	1.1	16	160	4.0	0.12	0.8	0.6	0.15	C
28	22	41	49.9	19-50.8	155-23.0	26.6	2.6	24	151	6.3	0.28	1.5	2.6	0.11	C
29	0	5	6.5	19-20.4	155-13.0	4.7	0.8	16	152	6.2	0.13	0.9	1.1	0.21	C
29	4	0	6.9	19-55.2	155-27.7	41.6	2.8	25	228	12.9	0.15	0.9	1.4	0.09	C
29	17	58	8.5	19-22.1	155- 3.0	6.9	0.6	12	124	4.0	0.16	1.4	1.0	0.21	C
29	18	14	21.7	18-52.0	155-18.1	7.6	1.7	16	255	36.5	1.08	2.1	7.3	0.10	D
29	20	27	53.8	19-22.9	155- 2.4	8.0*	0.6	10	134	5.7	0.17	1.5		0.21	C
29	22	57	25.4	19-22.2	155-12.3	28.6	0.9	14	190	5.8	0.28	1.7	2.3	0.10	C
30	0	0	7.9	19-19.3	155-13.6	8.0*	0.4	11	202	6.9	0.19	1.3		0.17	C
30	7	0	32.4	19-19.5	155-15.8	6.2	1.0	17	164	3.0	0.11	0.8	0.6	0.18	C
30	7	33	51.8	19-20.3	155-12.4	8.0*	0.5	12	194	5.5	0.17	1.2		0.15	C
30	14	33	36.1	19-17.0	155-23.2	5.9		12	133	5.9	0.08	0.8	0.8	0.14	B
30	21	8	5.1	19-20.6	155-11.7	5.1	0.4	14	153	4.3	0.14	1.0	1.2	0.20	C

Table 3. Felt earthquakes

Date	Time H	M	S	Magnitude	Felt report
Apr 11	23	08	56.3	3.2	Kealakekua
19	10	16	39.7	3.9	Captain Cook, Kapapala, South Kona
May 2	07	39	54.4	3.0	Volcano
3	14	34	37.8	3.0	Kapapala
Jun 21	11	38	25.5	3.6	Hilo, Pahoa
24	09	03	50.1	2.8	Volcano

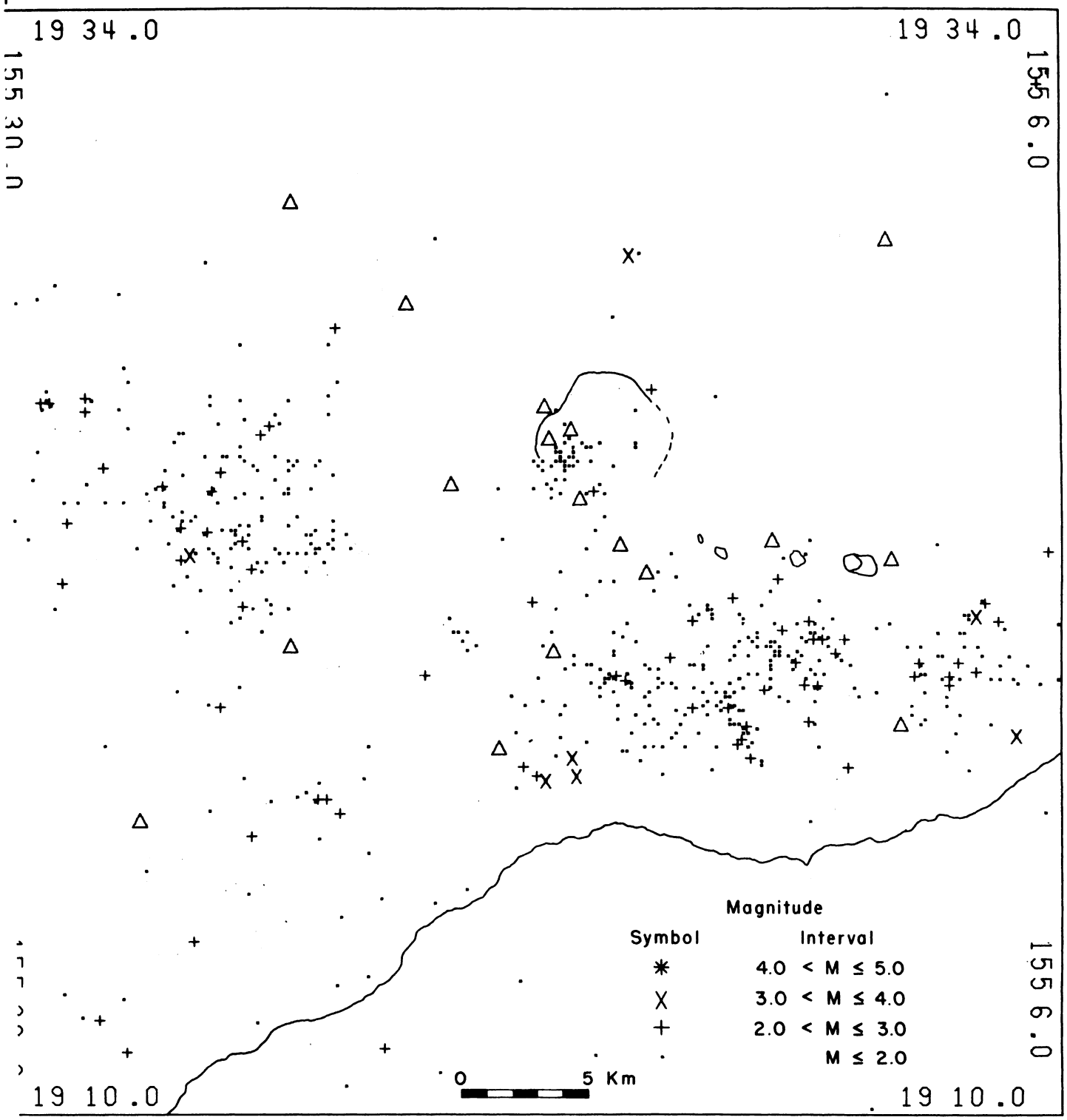

Figure 1.--Plot of epicenters in the Kilauea region. Triangles are seismometer locations. Kilauea Caldera and the major pit craters on the east rift are shown in outline. The Pacific Ocean lies in the lower right portion of the illustration.

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	3	6.0	2040		System 3 to 1 6/27/72
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
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					

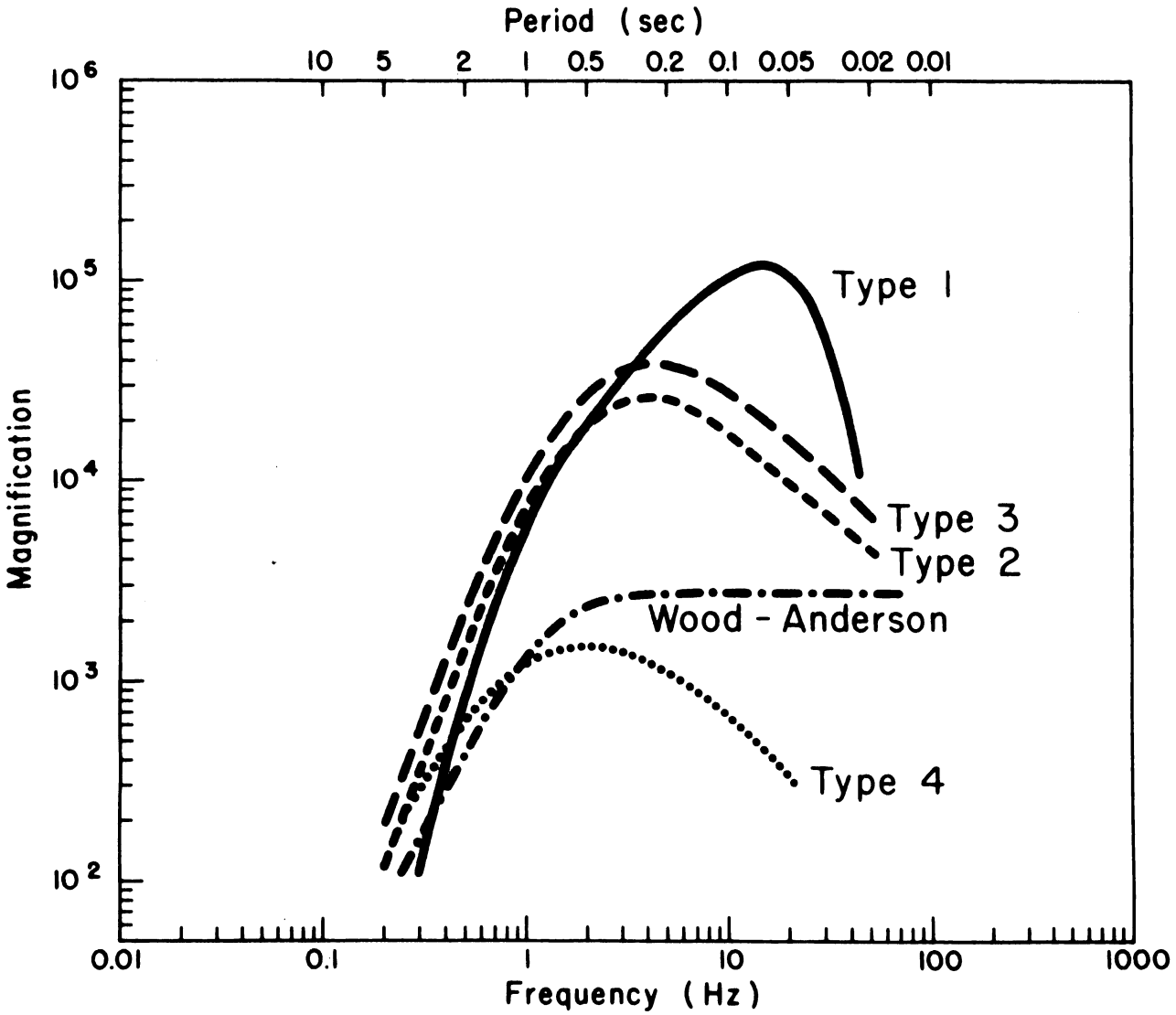

Figure 2.--System response curves for the Wood-Anderson torsion seismograph and for the four different types of seismometer-amplifier (or galvanometer) combinations in use by the Hawaiian Volcano Observatory.

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 7, Summary 65.

Table 6.--Tilt Coordinates at Uwekahuna, April, May, and June 1972

Date	N-S	E-W	Date	N-S	E-W
April 2	728	326	June 4	728	330
9	727	327	11	728	330
16	727	329	18	728	333
23	727	330	25	729	329
May 7	726	329			
14	726	331			
21	727	333			
28	728	332			

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

Tilt base	Date (1972)	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 4)	5 Jun	750.8	350.7	0.99 S76.0°E	19 Jan
Tree Molds (TM)	5 Jun	583.0	482.8	0.36 S14.0°E	19 Jan
Sand Spit (SS)	6 Jun	1040.6	721.9	1.76 S28.8°W	20 Jan
Mehana (M)	5 Jun	610.2	600.9	0.34 N39.8°E	19 Jan
Keamoku (Kea)	8 Jun	793.5	218.7	1.79 N79.0°E	20 Jan
Ahua Kamokukolau (Kam)	6 Jun	357.3	542.8	4.02 N 8.1°E	20 Jan
Kipuka Nene (KN)	7 Jun	278.3	499.4	0.45 N59.3°W	27 Jan
Hilina Pali (HP)	7 Jun	456.8	489.0	1.08 N59.7°W	27 Jan
Kapapala Ranch (Kap)	8 Jun	479.8	520.1	0.45 S38.7°W	26 Jan

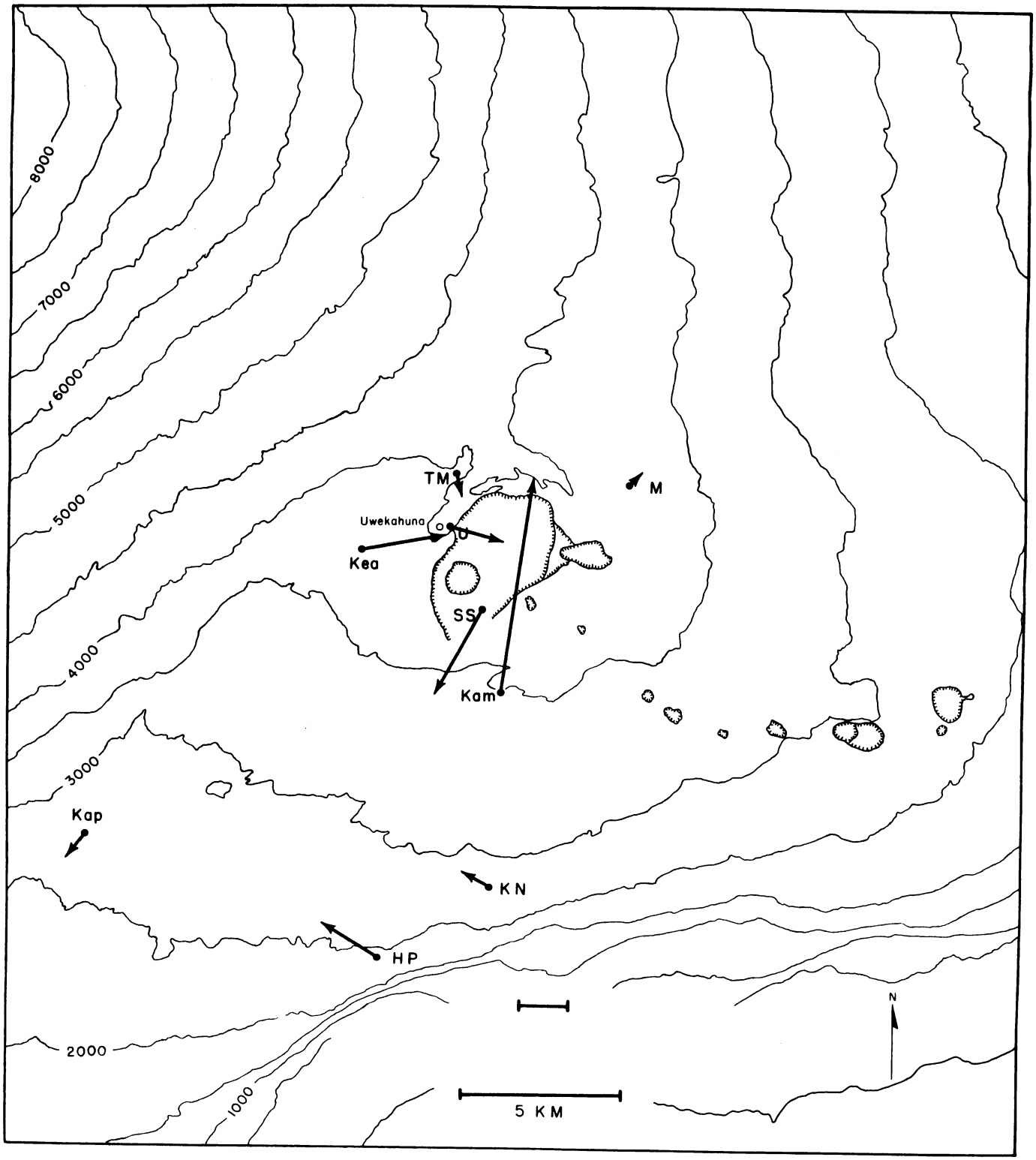

Figure 3.--Tilting of the ground around Kilauea Caldera. The vector depicting tilting at a given tilt base points in the direction of maximum relative subsidence, and its length is proportional to the rate of tilting during the measurement interval. Closed circles represent field tilt bases; open circles,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

REFERENCE CITED

Hamilton, R. M., B. E. Smith, J. C. Hall, and J. H. Healy, 1969, Summary of seismic activity in the Pahute Mesa area, Nevada Test Site, December 1968 - June 30, 1969: U. S. Atomic Energy Comm. (USGS0474-58): Springfield, Va., Clearinghouse for Federal Sci. and Tech. Inf., 63 p.

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HAWAIIAN VOLCANO OBSERVATORY

SUMMARY 67

July, August, and September 1972

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

Menlo Park, California

1977

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July, August, and September 1972

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Eruptive activity continued at Mauna Ulu and Alae on Kilauea's upper east rift zone throughout this quarter. The level of an active lava lake, approximately 80 by 150 m, in Mauna Ulu's summit crater fluctuated from 30 to 50 m below the crater rim. Lava normally entered the lake at its east end, and surface circulation in the lake generally was from east to west, although sometimes the circulation reversed and/or varied in complex ways. Low lava fountains (2 to 10 m high) commonly played on the lake surface, generally along its margins, but occasionally also in its central portions. The fountains developed and operated over areas where lava was descending into the depths of the lake in downward convective circulation. At times, two to four fountains at fixed locations on various parts of the lake, would operate steadily for several days with little change; at other times, the fountains continually shifted in location and number, with as many as a dozen active simultaneously.

An elongated trench or fissure trough extended ENE from the main crater. The combined length of the crater and trench was about 500 m, and maximum width was about 100 m. A septum about 10 m below the rim separated the main crater, containing the lava lake, from the trench. The major vent feeding the entire system was about 170 m east of the septum on the floor of the trench near its south wall. The crusted floor of the trench was actually a roof over a large lava-tube system through which lava flowed from the vent westward to feed the lava lake and eastward to ultimately emerge at Alae. Most of the time, the crusted floor of the trench blocked direct viewing of near-vent activity, but collapse of parts of the floor in September revealed the nature of the flow pattern.

The vent at Alae persistently fed lava into a multi-compartment lake at the summit of the lava shield growing over the site of former Alae Crater. Frequent lava overflows across the levees impounding the lake added height and breadth to the shield. But the lava lake was also being drained from below by lava tubes. One tube system fed flows that had been spilling into Makaopuhi Crater since June 20. These flows continued to fill Makaopuhi until about mid-August, and by the time they ended the western floor had been raised to within about 6 m of the eastern mezzanine. Meanwhile, from August 7 to 10, large and sustained rockfall flurries from the north and south walls of Makaopuhi's west pit appreciably modified its walls and floor. On August 9 and 10 lava was observed to erupt from an ENE-trending fissure on Makaopuhi's east pit; this brief outbreak may have begun as early as August 7.

As the inflow into Makaopuhi gradually waned and finally stopped, flows toward the southeast from Alae increased, and a new system of lava tubes developed. Tube-fed flows advanced southward and eastward beyond the earlier margins of the lava field, and eruption-caused fires devastated several thousand acres of forest. Much of Naulu Forest, the locality of many rare species of trees and shrubs, was overrun by lava.

On August 14 the front of the new flow descended Poliokeawe Pali, on August 15 it reached the base of Holei Pali, and by August 23 lava had advanced across the coastal flats and spilled into the ocean at Kaena Point. Lava continued to pour into the sea along a 2 km-wide front between Kaena Point and Kealakomo for the remainder of the quarter, and broad stretches of the coastal flat between the pali and the shore were covered by these tube-fed pahoehoe flows.

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 mortheast-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 (1972)	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
Jul 1			Low level tremor on the upper east rift throughout the month	1	186	326	47	135	7	3		
2				3	125	241	20	98	9	6	1	
3					129	357	38	101	8	2	3	
4		10m		2	93	269	21	61	5	2	3	
5				1	150	254	34	58	7	2	2	
6		5m		1	178	227	16	60	12	16?	3	
7		20m			50	604	29	105	11	3	11	
8				1	34	718	25	73	5	4	4	
9					22	567	15	70	5	4		
10				2	187	269	22	37	13	1	1	
11					17	483	10	57	2	2	1	
12				3	163	230	36	30	12	6	1	
13		11m		1	85	352	10	46	3	2	4	
14				2	69	340	20	46	7	1	3?	
15				1	79	277	29	114	8	7		
16				1	24	418	18	72	10			
17					19	372	16	24	11		227	
18					45	372	14	42	14		81	
19					35	331	9	52	17	7	104	
20				4	30	317	13	38	11	4	188	
21					40	370	13	37	19	2	20	
22					63	401	12	33	15	2	21	
23					23	203	22	47	8		17	
24				4	147	303	30	39	5	2	?	
25	7m				284	322	12	46	5	1	19	
26		5m		1	178	383	22	43	9	3	7	
27					24	175	13	49	2	4	9	
28		7m			64	135	26	68	7	1	4	
29		5m		1	31	136	26	21	3	7	3	
30					135	183	21	27	6	5	?	
31					31	346	10	134	17	3	2	

Date (1972)	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
Aug 1			Low to moderate tremor on the upper east rift throughout the month	1	55	324	33	45	5	4	3	
2		10m			24	340	2	55	4	2	2	
3				2	46	268	31	33	6	3		
4				1	27	344	8	72	9	2	2	
5				1	15	340	7	41	8		?	
6				1	48	408	38	76?1/	4		2	
7					77	297	48	178?1/	7			
8		13m		1	19	241	6	354?	14	1		
9					19	239	15	284?	8			
10					8	251	7	270?	10	1		
11		6m		1	23	364	6	156?	7			
12					7	325	3	651?	3	1		
13				1	29	333	34	78?	25			
14					18	316	31	40?	14			
15					11	258	12	38?	3	5		
16					19	224	8	76?	7	5		
17		7m			32	245	5	52?	7			
18				1	19?	305	12	31?	3?			
19		6m		2	22	298	36	71?	7			
20				1	93	408	64?	75?	6			
21					132	298	66?	30	7			
22		5m		1	12	246	7?	24	8	1		
23					5	295	79?	39	7			
24				2	15	271	21	30	11	3		
25					31	253	39	24	3	2	1	
26					7	283	26	27	16	5	2	
27	15m			1	48	271	23	23	3		5	
28		4m			6	221	32	27	4	2	2	
29				3	10	271	27	31	14	1	3	
30				2	11	273	12	43	10	1		
31				1	30	210	49?	20	8	1		

1/ Heavy rockfall activity at Makaopuhi Crater. Upper East Rift count for Aug 6-20 include rockfalls.

Date (1972)	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
Sep 1			Low level tremor on the upper east rift throughout the month		26	264	24	34	3	1	1	
2	10m			1	15	229	8	16	1	4		
3				1	9	252	17	21	8			
4	56m	5m			30	241	36	78	14	1	?	
5	?				18	270	25	51	10	1	183	
6					4	150	30	15	6	1	251	
7	35m				33	368	27	34	6	3	27	
8		11m			41	317	17	23	7	3	12	
9				2	16	340	17	37	5	1	12	
10					13	324	27	96	6		4	
11				2	17	373	19	49	13	3	5	
12		12m		1	21	308	11	52	14	2		
13	38m?	5m			18	298	15	56	10	2	3	
14		15m		7	54	234	20	35	5	4	1	
15				1	52	261	24	38	8	5	3	
16		10m		1	25	207	18	33	6	8	2	
17		8m			40	287	12	22	2		3	
18		10m			49	305	13	29	12	1	1	
19		3m			36	276	26	23	11	3		
20	32m	3m			47	290	18	25	5	2		
21				1	53	252	37	43	10		18	
22	40m			4	26	324	12	36	1	5	4	
23		5m			7	369	17	29	5	1	2	
24		10m		1	20	253	15	12	8	2		
25					51	322	44	24	3	3	2	
26				4	23	425	50	27	13	1	3	
27					10	351	35	22	11	3		
28					22	473	39	35	13	2	2	
29	5m			2	34	372	26	25	13	1		
30				1	15	329	23	26	14	7		

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	≥ 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

Table 2. Summary of Seismic Events

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUL	1	1	49 38.7	19-20.0	155-13.4	8.0*	1.8	12	157	6.3	0.09	0.7		0.11	C
	1	3	16 12.4	19-21.2	155-15.3	32.7	2.7	17	128	2.4	0.16	0.9	1.5	0.09	B
	1	3	24 43.9	19-25.4	155-24.1	8.0*	2.0	19	94	7.3	0.06	0.5		0.12	B
	1	14	26 18.5	19-15.5	155-22.3	6.0		13	168	7.9	0.18	1.4	1.2	0.24	C
	1	15	56 32.0	19-19.6	155- 7.7	1.2		16	175	5.9	2.70	1.3	10.3	0.23	C
	1	17	50 43.3	19-19.7	155-15.9	5.7		15	169	2.8	0.12	0.8	0.6	0.13	C
	1	19	4 28.1	18-53.9	155-11.7	12.9*		17	263	40.4	0.42	2.8		0.14	D
	1	23	46 26.0	19-18.0	155-23.9	4.0	1.6	14	127	4.2	0.06	0.6	0.7	0.13	B
	2	7	5 4.1	19-19.0	155- 7.9	3.4	1.9	14	185	6.7	0.22	1.6	1.6	0.24	C
	2	7	46 28.4	19-15.3	155-22.2?	0.0		13	172	8.0	9.46	1.3	18.1	0.24	C
	2	8	35 9.7	19-17.4	155-37.4	8.0*	1.5	10	220	22.2	0.45	3.3		0.27	C
	2	9	0 3.6	19-19.4	155-10.7	8.0*		14	173	5.1	0.10	0.9		0.12	C
	2	19	53 12.0	19-21.5	155-18.8	25.3	2.1	18	80	3.6	0.13	0.8	1.4	0.12	B
	2	20	0 12.7	19-20.6	155-14.4	8.7	1.7	10	236	4.2	0.36	2.0	2.2	0.10	C
	3	2	45 7.4	19-45.0	155- 1.4?	48.9	3.1	14	220	27.6	0.54	2.2	4.5	0.10	C
	3	3	20 51.5	19-20.3	155- 6.8?	8.0*	2.3	13	161	6.3	0.14	1.4		0.22	C
	3	5	42 1.6	19-50.2	155-50.9	0.7	1.3	21	275	53.2	0.63	4.0	1.1	0.16	D
	3	5	57 17.5	19-16.7	155-29.6	3.5	2.2	14	117	5.2	0.16	1.2	1.5	0.24	C
	3	10	15 13.3	19-22.8	155-26.2?	0.0		14	138	7.0	9.21	1.1	17.5	0.26	C
	3	10	41 47.0	19-19.5	155-25.8	5.3		12	126	4.5	0.12	1.0	1.2	0.19	B
	3	16	9 39.3	19-19.1	155-11.7	2.3	2.0	22	174	6.4	0.18	1.0	1.5	0.26	C
	3	20	28 7.9	19-19.2	155- 8.8	1.4	1.8	21	179	5.7	1.33	1.0	4.9	0.23	C
	4	7	20 56.6	19-19.9	155-24.5	7.1	1.8	21	101	2.1	0.08	0.8	0.6	0.20	B
	4	15	19 1.4	19-23.8	155- 1.0?	8.0*		11	150	7.9	0.15	1.3		0.17	C
	4	16	44 1.0	19-20.1	155-13.1	8.0*	2.0	10	191	6.5	0.15	1.1		0.12	C
	4	21	46 49.1	19-19.1	155-11.8	3.6	1.8	21	175	6.4	0.17	1.1	1.3	0.26	C
	4	22	59 18.2	19-24.3	155-16.0	11.9		12	89	3.4	0.08	0.7	0.8	0.12	B
	5	0	22 53.1	19-13.0	155-13.2	37.0		15	248	13.2	0.19	1.6	1.7	0.11	C
	5	2	21 36.6	19-12.1	155-21.4	40.2		13	167	11.8	0.36	1.5	3.7	0.09	C
	5	2	35 42.5	19-21.3	155- 6.4	8.0*	2.4	11	141	6.2	0.11	1.2		0.14	C
	5	5	10 35.6	19-19.5	155- 8.0	8.0*		13	176	5.7	0.11	1.0		0.10	C
	5	6	6 35.4	19-14.4	155-48.2	4.8	2.6	19	139	7.7	0.17	1.4	1.3	0.21	C
	5	7	15 17.6	19-25.8	155-49.8	8.7		15	241	18.6	0.28	2.0	1.5	0.13	C
	5	10	1 37.4	19-19.4	155-14.1	8.0*		11	165	6.0	0.11	0.8		0.12	C
	5	13	57 4.7	19-23.2	155-26.5?	7.9	1.8	12	95	8.0	0.09	0.7	0.6	0.12	B
	5	16	24 10.3	19-20.2	155-12.7	6.2	1.7	21	141	4.2	0.11	0.8	0.7	0.21	C
	5	17	51 32.5	19-20.2	155-13.0	5.8	1.7	18	156	4.2	0.15	1.1	0.9	0.25	C
	5	19	15 52.0	19-23.0	155-25.4	8.0*		9	233	6.4	0.19	1.2		0.09	D
	5	21	20 39.3	19-23.2	155-16.9	11.9	2.2	13	64	0.3	0.15	0.8	1.3	0.10	B
	5	23	2 37.1	19-18.1	155-23.7	3.7	2.4	22	114	4.0	0.06	0.5	0.6	0.16	B
	6	0	22 23.1	19-20.3	155-12.6	3.3		14	190	5.8	0.21	1.2	1.4	0.21	C
	6	1	21 28.3	19-20.5	155-13.4	4.6	1.9	14	178	5.6	0.19	1.1	1.2	0.20	C
	6	2	11 44.6	19-15.2	155- 0.2?	41.0		21	233	9.8	0.35	1.8	2.7	0.12	C
	6	4	37 0.8	19-15.3	155-22.1	3.1	1.9	16	174	7.8	0.13	0.9	1.2	0.19	C
	6	5	5 24.2	19-21.1	155- 7.6	7.7		14	148	4.3	0.10	1.1	0.8	0.13	B
	6	6	18 38.9	19-20.4	155-12.5	6.2		17	154	3.7	0.15	1.1	1.0	0.24	C
	6	9	5 18.5	19-30.3	155-35.3?	7.7	2.4	18	143	2.3	0.10	1.0	1.2	0.15	B
	6	9	28 33.3	19-23.2	155-26.1	7.8	1.7	16	71	7.4	0.13	0.7	0.9	0.15	B
	6	12	26 7.8	19-19.0	155-13.7	6.6	1.6	14	207	6.7	0.19	1.1	0.8	0.18	C
	6	14	45 10.5	19-31.9	155- 8.1?	0.0		11	212	8.1	6.33	1.1	12.0	0.12	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUL	6	18	9 38.1	19-20.3	155- 8.0	5.5	1.8	21	162	4.5	0.14	1.0	0.8	0.21	C
	6	23	51 26.1	19-19.2	155- 9.4	3.2		14	179	5.4	0.20	1.3	1.5	0.23	C
	7	0	50 14.9	19-25.7	155-25.1	7.5	1.9	23	65	8.2	0.09	0.6	0.6	0.17	C
	7	8	40 53.5	19-22.9	155-25.6	8.0*		10	264	6.5	0.15	0.8		0.05	D
	7	13	46 50.3	19-25.2	155-21.9	16.3		9	148	4.7	0.96	3.1	10.0	0.18	C
	7	19	22 18.6	19-23.7	155-23.6?	7.9	1.4	20	55	6.4	0.06	0.6	0.4	0.14	B
	7	22	56 24.6	19-17.9	155-14.6	13.6	0.5	8	225	6.4	0.29	1.9	2.2	0.08	C
	7	23	25 13.3	19- 4.6	155- 2.5	15.4*	1.1	17	287	34.8	0.45	3.0		0.24	D
	8	4	11 21.8	19-19.3	155-14.5	8.0*	0.9	17	145	5.2	0.07	0.6		0.11	C
	8	6	15 41.9	19-18.5	155-13.1	5.4	1.5	21	155	7.4	0.14	0.9	0.9	0.22	C
	8	13	15 49.2	19-24.6	155-23.9?	8.4	1.3	22	59	7.5	0.07	0.6	0.5	0.15	B
	8	16	32 33.8	19-20.5	155-12.2	8.0*		9	192	5.1	0.25	1.9		0.20	C
	8	17	25 27.0	19-20.1	155-11.4?	7.3	0.1	13	162	4.5	0.14	1.1	1.8	0.14	C
	8	19	3 57.2	19-20.6	155-13.3	6.2	1.8	21	148	3.5	0.10	0.8	0.7	0.21	C
	9	0	2 26.6	19-18.6	155-15.0	11.5	0.3	10	206	5.1	0.18	0.7	1.5	0.06	B
	9	2	49 23.0	19-19.7	155- 9.0	6.3	0.2	12	171	4.6	0.16	1.2	0.9	0.17	C
	9	7	29 36.4	19-18.7	155-13.6	8.0*	0.6	12	178	7.1	0.15	1.1		0.16	C
	9	13	19 33.1	18-52.2	155-15.4	8.0*		12	263	44.8	0.51	3.5		0.14	D
	9	15	33 0.8	19-20.8	155- 9.8	5.2	0.9	13	153	2.4	0.14	1.1	1.0	0.17	C
	9	15	51 27.1	19-19.6	155-13.7	5.9	0.9	16	194	5.5	0.19	1.1	0.9	0.18	C
	9	20	7 46.0	19-17.9	155-14.2	13.2	0.8	8	226	6.9	0.28	1.0	2.2	0.05	C
	9	20	24 26.5	19-22.3	155-29.4	5.6	0.9	18	90	11.4	0.09	0.7	0.8	0.16	C
	9	23	52 42.3	19-23.6	155-25.2	8.0*	0.9	11	224	7.2	0.32	2.0		0.17	C
	10	1	58 12.6	19-20.4	155-13.0	5.7	0.9	18	186	3.8	0.15	1.0	0.7	0.20	C
	10	20	17 55.6	19-19.0	155-15.3	9.1	2.0	12	243	4.3	0.49	2.4	2.8	0.10	C
	11	7	19 15.0	19-19.4	155-15.5	6.2	1.9	13	182	3.6	0.17	1.1	0.9	0.18	C
	11	8	1 47.2	19-20.8	155-24.4	7.8	1.9	18	89	2.2	0.08	0.7	0.6	0.17	B
	11	9	6 38.5	19-19.2	155-13.7	8.0*	0.8	10	203	6.7	0.14	1.1		0.12	C
	11	12	35 31.3	19-20.0	155-10.8	9.6	0.8	14	164	4.1	0.11	0.8	1.5	0.10	C
	11	19	26 57.2	19-22.5	155-43.1	6.5	0.7	11	262	17.6	0.59	3.5	0.9	0.09	D
	11	20	25 18.3	19-19.6	155-13.9	8.0*	0.8	14	162	6.2	0.08	0.6		0.10	C
	11	22	4 53.9	19-20.3	155-12.3	8.0*	0.0	12	156	7.4	0.13	1.1		0.18	C
	12	4	8 52.7	19-22.4	155-25.2	4.0	1.4	17	93	5.3	0.14	0.9	1.2	0.20	B
	12	6	50 1.6	19-23.9	155-24.3	8.0*	0.8	13	131	7.1	0.06	0.5		0.08	C
	12	20	31 49.0	19-21.9	155-24.5?	6.2	3.3	26	50	3.7	0.07	0.8	1.4	0.22	B
	12	20	36 51.3	19-22.1	155-24.6	8.2	1.6	10	130	4.1	0.07	0.6	1.7	0.09	B
	12	23	3 43.8	19-19.3	155-16.1	30.1	2.7	23	141	2.8	0.18	1.1	1.8	0.14	B
	13	0	42 1.6	19-24.8	155-25.5	3.1	2.1	20	75	9.3	0.10	0.7	1.0	0.19	B
	13	5	54 39.4	19-19.1	155-14.1	11.1		12	215	6.1	0.31	1.6	2.4	0.11	C
	13	7	35 24.1	19-19.2	155-14.1	4.0	1.6	15	168	6.1	0.20	1.2	1.8	0.26	C
	13	16	46 10.5	19-22.5	155-23.4	6.4		11	152	4.2	0.10	0.6	0.8	0.12	C
	13	17	10 3.4	19-19.3	155- 8.9?	0.4		12	178	5.3	2.74	1.5	10.4	0.21	C
	13	18	59 11.9	19-19.8	155-12.3	8.0*		9	208	6.0	0.13	0.9		0.09	C
	13	20	52 42.0	19-19.0	155-13.0	8.0*	1.6	11	215	7.9	0.21	1.4		0.11	C
	13	21	12 4.5	19-19.7	155-16.6	10.0	1.6	9	205	1.6	0.15	0.7	1.1	0.03	B
	13	22	17 1.2	19-19.6	155-16.6	9.9	1.5	9	206	1.7	0.12	0.6	0.9	0.03	B
	14	8	39 17.6	19-19.1	155-13.5	8.0*		13	172	7.2	0.12	0.8		0.12	C
	14	9	36 57.5	19- 0.4	155-19.0	31.5	4.5	26	228	22.9	0.30	1.7	2.6	0.13	C
	14	9	40 16.7	19- 0.4	155-18.5	29.6	2.9	21	229	23.6	0.36	1.9	3.7	0.13	C
	14	11	32 38.8	19-19.9	155-45.7	8.1	2.6	15	228	17.7	0.26	1.6	1.7	0.14	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUL	14	18	50	30.8	18-45.6	154-52.9	21.9*	3.4	21	288	65.7	0.32	2.3		0.17	D
	14	21	23	45.4	19-24.3	155-24.4	6.3		13	172	7.8	0.11	0.7	0.7	0.13	C
	14	22	30	3.1	19-16.8	156-24.4	13.8*	3.3	28	300	74.8	0.27	2.0		0.21	D
	14	22	42	27.4	19-22.0	155-18.5	1.4		9	79	3.8	0.09	0.4	0.5	0.10	A
	14	23	24	58.3	19-20.3	155-13.9	7.5	1.5	20	151	4.6	0.12	0.9	0.6	0.21	C
	15	1	53	5.5	19-32.0	155-42.1?	5.3	2.5	14	156	11.9	0.72	1.2	5.4	0.14	C
	15	10	15	57.6	19-19.2	155-10.8	2.7	1.8	21	175	5.6	0.20	1.1	1.5	0.27	C
	15	11	21	35.6	19-24.8	155-25.8	0.4	1.7	17	75	9.5	0.50	0.7	1.0	0.19	B
	15	14	49	24.6	19-18.3	155-12.1	2.7	2.9	25	154	7.7	0.18	0.9	1.3	0.26	C
	15	15	1	49.7	19-19.9	155-12.1	6.8	2.7	23	145	4.8	0.11	0.8	0.6	0.20	C
	15	16	58	7.6	19-24.6	155-16.4	0.5	1.0	8	89	1.2	0.14	0.4	0.4	0.09	A
	15	22	17	55.9	19-25.5	155-20.0	10.9	1.4	18	91	3.4	0.05	0.5	0.5	0.08	A
	16	1	17	6.2	19-19.3	155-25.4	12.6	2.3	11	165	4.0	0.20	1.5	1.4	0.16	C
	16	9	47	49.2	20- 3.4	155-28.8	25.1	2.3	24	212	23.4	0.30	1.8	3.9	0.14	C
	16	10	51	50.0	19-19.6	155-16.6	9.7		9	208	1.8	0.15	0.7	1.1	0.04	B
	16	11	46	39.4	19-18.9	155-15.6	9.1	1.9	14	167	3.9	0.09	0.6	1.1	0.07	B
	16	13	33	11.2	19-19.9	155-11.4	9.2	1.2	12	182	4.9	0.08	0.6	1.3	0.07	B
	16	14	1	42.1	19- 0.4	155-18.6	12.7*	1.4	15	229	32.4	0.27	2.0		0.12	D
	16	17	49	49.3	19-24.5	155-38.5	40.9*	1.4	7	324	27.7	0.33	3.4		0.06	D
	16	20	29	10.6	19-23.8	155-25.6?	7.4	1.4	17	81	7.8	0.10	0.7	0.8	0.16	B
	16	21	53	50.6	19-19.5	155-13.8	8.0*	0.4	11	163	6.4	0.09	0.7		0.11	C
	16	23	24	46.1	19-24.1	155-28.2	4.6	1.3	20	82	11.2	0.09	0.7	1.0	0.20	C
	17	1	11	58.4	19-19.3	155-14.0	8.0*		9	198	6.2	0.22	1.6		0.18	C
	17	1	39	23.6	19-19.9	155-15.2	26.3		16	150	3.9	0.16	0.8	1.5	0.08	B
	17	8	58	54.6	19-22.9	155-22.0	4.7	1.0	11	146	4.4	0.14	0.9	1.1	0.16	B
	17	10	40	12.5	19-23.6	155-25.2?	8.2	2.1	21	67	7.0	0.08	0.6	0.5	0.14	B
	17	10	55	52.5	19-19.2	155- 8.7	8.0*	0.7	11	181	5.8	0.14	1.2		0.13	C
	17	11	51	19.0	19- 2.5	155-25.1	32.4		12	220	13.7	0.22	2.2	2.0	0.12	C
	17	17	13	47.5	19-21.2	155-16.3	6.0		10	132	2.4	0.11	0.6	0.7	0.11	B
	17	20	17	23.0	18-54.1	155-16.2	8.6	3.1	24	250	35.0	0.42	2.0	2.6	0.15	C
	17	20	31	36.6	18-52.6	155-15.6	6.4	2.0	13	268	37.9	2.26	3.9	12.3	0.14	D
	17	20	58	54.6	18-55.9	155-17.4?	12.3	2.8	15	248	31.1	0.36	2.1	2.8	0.17	C
	17	22	11	15.9	18-51.3	155-16.2	1.8	3.3	21	259	39.3	0.48	3.0	2.1	0.17	D
	17	23	19	19.9	18-50.8	155-17.5	1.4*	2.3	12	260	39.0	0.38	2.5		0.14	D
	17	23	51	3.0	18-51.1	155-17.8	4.7	2.2	16	259	38.3	1.01	2.1	6.4	0.11	D
	18	0	3	39.3	18-52.1	155-18.0	9.2	2.9	16	256	36.4	0.57	2.7	3.1	0.13	D
	18	0	17	7.2	18-54.4	155-19.1	8.7	3.1	18	248	31.8	0.29	2.0	2.5	0.16	C
	18	0	34	16.1	18-53.1	155-18.8	10.1	2.9	19	252	34.2	0.41	2.0	2.3	0.13	C
	18	1	6	38.6	18-51.0	155-17.9	6.0	2.9	15	259	38.3	1.12	2.3	7.6	0.11	D
	18	4	33	50.1	18-51.3	155-18.1	7.0	2.3	18	258	37.7	1.11	2.2	7.5	0.11	D
	18	6	23	38.5	18-50.7	155-17.6	10.8*	2.9	19	260	39.1	0.27	1.8		0.11	D
	18	9	7	3.0	18-53.4	155-19.4	15.5*	3.2	18	251	33.2	0.22	1.5		0.14	D
	18	9	14	17.2	18-48.3	155-17.1	8.0*	3.1	19	273	43.4	0.21	1.4		0.10	D
	18	19	52	41.5	18-51.4	155-18.2	8.0*		9	263	37.5	0.34	2.2		0.07	D
	18	19	55	5.1	19-18.7	155-13.4	8.0*	0.7	9	218	7.5	0.27	1.9		0.18	C
	18	21	29	52.1	19-19.6	155-12.0	5.9	2.0	19	168	5.5	0.15	1.1	1.0	0.24	C
	19	1	57	24.0	19-19.3	155-11.8?	4.8	1.2	19	173	6.2	0.21	1.4	1.4	0.26	C
	19	6	40	21.9	19-23.6	155-23.9	3.6	1.0	15	194	6.4	0.15	0.8	1.2	0.14	C
	19	10	40	1.1	19-20.5	155-19.5	4.0	1.1	12	77	3.8	0.14	0.4	2.4	0.09	B
	19	15	19	15.2	19-22.8	155-24.9	8.0*	1.0	11	136	5.5	0.10	0.9		0.12	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUL	19	17	22 32.4	19-20.4	155- 7.4	3.8	2.1	19	160	5.2	0.15	1.1	1.1	0.20	C
	19	18	55 37.8	18-52.7	155-19.5	5.9	1.5	13	258	34.3	1.60	3.1	9.8	0.12	D
	19	19	9 9.7	18-54.6	155-21.6	9.8	2.5	8	262	29.5	0.70	4.1	3.3	*0.10*	*D*
	19	23	22 33.2	19-22.1	155-26.0	7.5	2.8	23	60	5.9	0.12	0.8	0.8	0.20	B
	20	1	20 44.6	19-23.2	155-21.9?	5.2	0.9	12	92	4.0	0.11	0.7	1.8	0.14	B
	20	4	56 57.8	19-20.4	155-13.8	5.9	1.3	22	150	5.3	0.12	0.9	0.8	0.23	C
	20	6	46 4.9	19-18.4	155-15.3	11.9		9	206	4.8	0.23	0.9	1.9	0.06	B
	20	7	3 37.0	18-49.1	155-17.2?	1.6*	2.6	12	265	42.1	0.66	4.3		0.20	D
	20	7	28 13.2	18-51.2	155-18.2	8.3	2.9	20	258	37.8	0.34	2.0	1.9	0.11	C
	20	8	7 42.2	19-20.2	155- 9.3	7.0	1.8	16	228	3.5	0.40	2.5	1.1	0.23	D
	20	12	17 38.2	18-51.6	155-18.6?	9.3	2.9	13	262	36.8	0.79	4.0	3.6	0.13	D
	20	13	17 16.3	18-51.7	155-17.4?	1.7*	2.6	13	263	37.7	0.52	3.4		0.18	D
	20	14	40 59.7	18-51.6	155-17.7	4.4	3.0	22	257	37.5	1.15	2.4	7.2	0.14	D
	20	15	43 48.8	19-21.5	155-25.6?	1.3	1.5	13	71	4.6	0.14	1.0	2.1	0.25	B
	20	17	20 44.0	18-51.5	155-18.2	8.0*	2.6	12	271	37.3	0.40	2.6		0.10	D
	20	17	25 23.4	18-50.7	155-17.6	8.0*	2.6	14	260	39.0	0.27	1.8		0.09	D
	20	17	39 50.5	19-25.7	155-14.7	30.0	3.2	30	39	1.8	0.12	0.7	1.3	0.13	B
	20	18	9 31.2	19-18.4	155-13.6	10.3	1.2	11	221	7.3	0.41	1.9	3.2	0.10	C
	20	19	37 52.7	18-51.3	155-18.0	5.0	2.8	16	258	37.8	1.40	2.9	9.3	0.13	D
	20	19	42 15.1	19-19.4	155-14.7	11.9		8	189	4.8	0.34	1.2	2.8	0.07	C
	20	21	50 2.1	18-53.2	155-17.4	8.4	2.5	14	258	35.2	0.71	3.4	3.7	0.14	D
	20	21	54 28.5	19-19.9	155- 9.0?	4.5	1.9	19	168	4.3	0.18	1.3	1.2	0.26	C
	20	23	59 44.4	18-52.6	155-19.0	8.4	2.1	15	259	34.9	0.53	3.2	3.1	0.15	D
	21	2	4 9.9	18-59.3	155-19.3	27.1	2.1	22	229	24.1	0.47	2.8	4.7	0.18	D
	21	3	2 55.0	19-20.0	155- 7.8	8.0*	1.4	11	167	5.1	0.10	0.9		0.12	C
	21	4	57 8.1	19-25.3	155-14.4	29.3	1.2	20	88	1.1	0.14	0.9	1.5	0.11	B
	21	7	52 59.1	19-21.1	155-24.7?	7.2	2.4	23	71	2.9	0.07	0.8	1.6	0.21	B
	21	21	27 12.4	19-23.1	155-23.6?	7.9	2.3	25	53	5.3	0.09	0.6	0.7	0.17	B
	22	0	43 42.2	19-22.7	155-23.3	8.1	2.7	27	42	4.6	0.08	0.6	0.6	0.16	B
	22	3	48 16.5	19-19.9	155-12.3	8.1	1.6	10	205	4.7	0.27	1.5	3.1	0.10	C
	22	6	24 37.4	19-20.1	155-12.1	7.6	3.1	25	140	4.4	0.09	0.7	0.5	0.17	C
	22	11	41 47.4	19-25.8	155-30.0	1.2	1.4	15	112	12.3	1.35	0.8	5.0	0.17	C
	22	15	43 3.4	19-22.1	155- 1.5	8.0*	0.5	13	163	4.8	0.24	1.6		0.20	C
	22	18	9 35.8	19-16.6	155-13.2	8.0*		7	254	9.8	0.45	2.8		0.11	D
	22	19	51 32.2	19-20.8	155-24.1	8.8	1.5	11	155	1.7	0.13	0.8	1.7	0.10	B
	23	3	31 30.3	19-24.4	155-17.6	8.4	1.2	12	138	1.9	0.11	0.8	1.2	0.06	B
	23	3	33 14.9	19-25.2	155-16.9	5.0	1.1	10	153	4.7	0.30	1.0	2.7	0.12	C
	23	5	20 36.1	19-12.0	155-26.3	5.9	1.5	14	153	5.4	0.09	1.3	0.9	0.11	C
	23	8	6 21.0	19-17.4	155-12.9?	2.1	1.9	14	228	9.3	0.48	2.3	2.1	0.21	D
	23	10	11 15.6	19-47.3	155-35.4	13.6*	2.3	13	150	13.8	0.07	0.7		0.09	C
	23	10	21 36.9	19-22.2	155-25.5?	0.5		14	69	5.4	2.64	0.9	10.0	0.25	C
	24	2	12 47.3	19-19.9	155-21.1	0.1		7	151	3.9	2.77	1.1	5.8	0.05	C
	24	3	21 24.9	19-12.0	155-26.9	5.0		11	146	4.9	0.20	3.0	1.9	0.23	C
	24	7	26 3.9	20- 5.4	155-23.8	8.2	2.9	23	226	23.0	0.27	1.8	1.9	0.18	C
	24	13	34 49.3	19-58.3	155- 1.7	59.4	3.2	20	287	28.6	1.53	6.6	10.3	0.16	D
	24	14	10 54.6	19-24.2	155-23.0	9.4	0.3	11	173	5.9	0.17	0.7	2.0	0.09	B
	24	18	45 5.8	19-20.8	155-16.2?	2.3*	0.4	10	125	3.0	0.17	1.1		0.25	C
	25	2	31 24.4	19-23.3	155-25.4	8.0*	0.3	9	187	6.8	0.11	0.8		0.08	C
	25	10	21 42.4	19-23.2	155-24.9	1.1	2.0	12	133	6.2	0.63	1.1	2.4	0.21	C
	25	12	5 6.9	19-19.4	155-13.3	7.0	2.2	17	167	7.2	0.17	1.2	0.8	0.22	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
JUL 25	18	39	10.0	19-24.5	155-23.7	6.3	1.5	11	191	7.1	0.13	0.9	0.8	0.08	B
26	1	2	40.8	19-10.9	155-30.5	44.4	2.6	23	98	5.2	0.32	1.4	3.0	0.12	B
26	3	31	7.7	19-22.9	155-24.1	8.0*	1.7	9	165	5.2	0.11	0.9		0.12	C
26	8	23	4.0	19-19.4	155-19.6?	6.1	2.5	18	108	3.2	0.15	1.0	1.2	0.25	B
26	12	48	32.9	19-26.3	155-23.8	3.6	1.5	11	191	6.5	0.12	0.7	1.1	0.10	C
26	16	51	57.6	19-25.6	155-14.5	29.0		17	128	1.7	0.18	1.0	1.7	0.10	B
26	21	3	22.6	19-21.5	155-25.4	3.0	2.4	24	69	4.4	0.09	0.7	0.9	0.23	B
26	21	4	35.5	19-21.6	155-25.4	5.9	1.6	14	134	4.5	0.14	1.0	1.1	0.19	B
26	22	3	47.1	19- 9.1	155-22.6	40.8		17	178	9.3	0.36	1.5	3.6	0.12	C
27	7	4	44.6	19-20.5	155-20.4?	2.3	1.3	8	117	5.1	0.18	0.5	2.5	0.07	B
27	7	23	11.1	19-20.5	155-13.2	4.7	1.5	14	151	6.6	0.14	1.0	1.3	0.23	C
27	9	16	6.5	19-23.7	155- 3.9?	3.9	2.1	14	104	7.2	0.14	1.1	1.7	0.25	C
27	15	26	42.3	19-20.2	155- 8.5	5.7	1.9	18	164	4.1	0.14	1.1	0.9	0.20	C
27	22	25	44.1	19-23.6	155-23.4	5.1		17	157	6.2	0.13	0.8	1.2	0.18	C
28	12	14	8.9	19-19.9	155- 8.6	3.6	2.3	18	168	8.6	0.13	0.8	0.8	0.19	C
28	20	4	52.0	19-22.6	155-24.8	6.2	2.3	22	52	5.2	0.08	0.6	0.7	0.17	B
28	20	43	32.1	19-19.3	155-13.4	7.3	2.5	23	145	6.0	0.11	0.8	0.6	0.18	B
28	21	8	6.1	19-20.6	155-11.1	10.3		10	155	3.5	0.12	0.9	1.8	0.08	B
28	21	8	57.8	19-19.3	155-13.6?	7.8	2.0	20	167	6.0	0.08	0.6	0.4	0.12	C
28	21	11	1.8	19-19.1	155-13.5?	0.0		16	172	7.1	1.55	1.3	22.0	0.26	C
28	21	43	30.8	19-18.3	155-13.6	5.7	1.8	13	180	11.9	0.16	0.9	0.9	0.11	C
28	23	32	36.0	20- 0.5	155-44.5	2.1	2.7	22	147	13.9	0.26	0.9	0.9	0.14	C
29	1	23	24.5	19- 8.1	155-23.0?	34.5		13	239	19.8	0.60	2.9	5.1	0.12	D
29	7	29	51.5	19-24.9	155-23.9	2.3	1.4	10	193	7.5	0.14	0.8	1.7	0.11	C
29	8	6	0.7	19-11.9	155-16.1	43.7		10	222	15.4	0.54	2.7	5.0	0.09	C
29	8	6	39.2	19-11.0	155-16.4	41.1		10	270	16.9	1.16	5.0	8.2	0.10	D
29	17	25	36.8	20- 4.7	155-49.1	13.0	3.0	23	212	6.9	0.14	1.9	2.3	0.10	C
29	19	23	38.2	19-20.8	155-13.3	6.3	1.6	17	146	5.5	0.11	0.8	0.8	0.20	B
29	23	30	26.0	19-19.5	155-16.1	2.2	1.5	19	150	2.6	0.15	0.9	1.2	0.20	C
30	0	23	26.4	19-20.3	155-13.2	5.4		14	153	6.0	0.17	1.2	1.1	0.24	C
30	0	46	60.0	19-19.9	155-47.3	8.6	3.1	23	122	11.2	0.08	0.8	1.2	0.14	B
30	2	50	7.1	19-30.5	155-15.1	8.0*		10	186	10.3	0.26	1.9		0.24	C
30	4	20	40.1	19-23.4	155-24.9	7.7	2.6	24	45	6.6	0.07	0.5	0.5	0.15	B
30	6	48	16.4	19-19.7	155-11.2	2.5	1.6	16	167	5.6	0.21	1.3	2.4	0.28	C
30	8	59	4.1	19-19.6	155-11.9	8.0*	0.3	10	167	8.6	0.09	0.8		0.10	C
30	10	1	15.0	19-19.6	155-24.8	7.9	0.8	9	158	2.9	0.10	0.9	0.6	0.10	B
30	16	53	53.1	19-20.8	155-23.9	8.0	0.6	8	153	1.5	0.09	0.8	0.6	0.08	B
30	18	49	57.8	19-19.9	155-16.7	9.0	1.0	7	206	1.3	0.61	3.1	4.4	0.11	C
31	5	8	56.8	19-20.6	155-29.7	8.0*	0.6	10	180	9.4	0.13	1.1		0.12	C
31	8	30	0.6	19-19.6	155-14.9	9.2		9	237	4.4	0.65	3.3	3.8	0.13	D
31	18	29	51.8	19-20.3	155- 9.3	10.6		7	161	3.4	0.23	1.8	3.2	0.07	C
AUG 1	3	38	22.4	19-18.6	155-16.1	9.0		11	239	3.5	0.44	2.4	2.3	0.12	C
1	6	19	17.1	19-11.5	155-36.5	5.8	2.9	20	212	6.3	0.30	1.8	1.0	0.16	C
1	8	37	9.0	19-23.1	155-23.4	8.0*	0.6	12	182	5.3	0.08	0.5		0.08	C
1	11	2	5.3	19-21.2	155-16.4	30.2	1.1	11	118	2.4	0.21	1.0	2.0	0.08	B
1	20	58	42.9	19-11.0	155-15.5	44.9		14	190	14.0	0.28	1.3	2.9	0.10	C
1	22	38	32.1	19-21.0	155-12.7	8.0*	1.7	8	174	6.2	0.05	0.3		0.04	C
2	1	13	54.3	19-19.9	155-24.4	8.4	0.4	8	154	2.0	0.13	1.0	1.7	0.09	B
2	2	23	17.3	19-25.0	155-29.6	8.0*	0.7	10	105	14.2	0.07	0.6		0.08	C
2	7	43	17.9	19-23.3	155-25.3	8.0*	0.9	11	185	6.7	0.09	0.7		0.08	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
AUG	2	11	58 52.6	19-22.6	155-25.2	4.5	1.7	18	52	5.5	0.09	0.8	1.2	0.22	C
	2	18	39 50.3	18-60.0	155-18.5	12.5	2.6	24	228	33.6	0.38	1.4	5.2	0.13	D
	2	21	0 56.5	19-23.3	155- 4.1?	3.2	1.5	14	160	6.5	0.15	0.9	1.4	0.17	C
	2	23	37 55.2	19-19.2	155- 9.3	8.0*	0.1	9	179	5.4	0.10	0.9		0.07	C
	3	3	28 30.2	19-18.0	155-13.1	8.0*	0.6	10	232	8.5	0.33	2.1		0.15	D
	3	7	18 2.5	19-19.1	155-12.1?	2.5	1.2	18	175	6.3	0.22	1.2	2.4	0.28	C
	3	8	19 52.8	19-26.8	155-25.3	8.0*		9	229	6.5	0.14	0.9		0.07	D
	3	13	13 25.9	19-20.6	155-19.2	24.4		9	82	3.3	0.51	2.1	4.7	0.09	B
	3	17	10 10.3	19-24.1	155-26.5?	8.0	2.2	14	161	9.2	0.12	0.9	0.6	0.14	C
	3	17	49 16.6	19-10.3	155-26.9	30.6	3.1	23	160	2.2	0.19	1.0	1.9	0.14	C
	3	18	57 15.8	19-24.0	155-24.3	8.0*		13	172	7.3	0.08	0.6		0.09	C
	3	19	55 23.0	19-24.4	155-25.6	8.0*	1.5	11	154	8.8	0.15	1.1		0.15	C
	4	0	13 29.8	19-21.0	155-13.4	28.2		16	143	5.1	0.18	1.0	1.8	0.10	B
	4	0	16 27.5	19-21.3	155-13.2	26.5		18	140	5.2	0.15	0.9	1.5	0.10	B
	4	3	51 16.4	19-10.1	155-21.1	30.0	2.0	11	216	19.1	0.34	1.4	3.8	0.07	C
	4	6	58 20.6	19-23.3	155-26.1	8.0*	1.4	7	271	7.5	0.26	1.4		0.05	D
	4	14	26 50.6	19-24.2	155-26.1	8.0*	2.1	17	69	8.8	0.06	0.5		0.12	C
	4	20	44 2.2	19-22.7	155- 4.6?	2.1	0.4	8	144	5.9	0.16	1.2	2.1	0.15	B
	5	6	41 20.1	19-22.3	155-23.6	5.4	0.7	12	145	3.9	0.13	1.0	1.3	0.19	B
	5	8	6 34.1	19-20.6	155-13.2	6.4	1.7	22	149	3.5	0.10	0.8	0.7	0.22	C
	5	9	22 22.6	19-19.1	155-13.4	8.0*	0.7	12	173	7.3	0.21	1.6		0.22	C
	5	14	4 24.0	19-18.2	155-15.4	29.0	1.6	16	148	5.0	0.17	1.1	1.8	0.11	B
	5	18	32 38.0	19-19.4	155-14.9	7.7	2.1	20	144	4.5	0.09	0.7	0.5	0.12	B
	5	19	18 4.6	19-50.5	155-23.4	34.8	2.1	18	95	7.3	0.38	2.0	3.8	0.18	B
	5	22	37 13.5	18-56.6	155- 8.0	15.2*	2.5	19	262	43.7	0.54	3.6		0.19	D
	5	23	12 45.5	19-22.7	155- 4.2?	8.0*	1.9	11	97	5.6	0.15	1.4		0.21	B
	6	1	26 18.4	19-23.7	155-25.5	3.6	0.9	19	70	7.6	0.11	0.8	1.4	0.21	C
	6	1	40 15.2	19-19.4	155-12.3	5.9	1.6	20	170	5.7	0.14	1.0	0.8	0.22	C
	6	10	33 41.2	19- 6.3	155-20.4	24.6		16	197	21.7	0.36	2.0	5.9	0.20	C
	6	13	35 27.7	19-17.1	155-11.6	1.1	1.9	10	206	9.7	2.21	1.4	8.1	0.15	C
	6	18	9 32.8	19-19.9	155-11.5	8.0		15	164	4.9	0.15	1.2	0.7	0.13	C
	7	4	22 54.7	19-22.1	155-23.4?	8.1	0.6	11	119	3.4	0.09	0.6	1.0	0.10	B
	7	5	13 15.1	19-23.8	155-17.4	19.6	1.2	11	80	1.2	0.71	3.1	7.1	0.28	B
	7	14	24 18.9	19-24.6	155-23.8	8.0*		10	193	7.4	0.12	0.8		0.10	C
	7	21	24 17.9	19-24.5	155-24.7?	0.0	1.5	10	131	8.4	6.09	0.7	11.6	0.12	C
	7	22	35 37.5	19-10.1	155-26.9	30.7	2.3	16	183	11.6	0.32	1.7	3.3	0.13	C
	8	2	30 10.9	19-14.1	155-22.8	8.0*	0.8	11	227	8.0	0.25	1.7		0.16	D
	8	7	43 42.3	19-20.5	155-12.6	4.6	0.8	15	152	6.7	0.17	1.1	1.3	0.25	C
	8	15	42 9.6	19-19.2	155-15.4	8.7	2.1	21	144	3.9	0.08	0.6	1.1	0.12	B
	8	17	1 17.9	19-24.9	155-24.3	8.0*	1.5	8	202	8.0	0.14	0.9		0.10	C
	8	18	16 56.0	19-24.0	155- 3.3	3.3	1.3	13	111	7.7	0.16	1.2	1.8	0.25	C
	8	18	40 28.3	19-17.8	155-51.3	8.1	2.1	16	205	3.7	0.15	1.6	1.7	0.15	C
	9	3	18 55.4	19-17.0	155-23.2	4.9	0.9	17	129	5.9	0.09	0.8	1.2	0.17	B
	9	6	3 1.7	19-19.3	155- 8.7	8.0*	0.3	9	179	5.6	0.18	1.5		0.15	C
	9	7	32 50.5	19-23.2	155-17.1	13.9	1.9	22	61	0.5	0.07	0.7	1.0	0.10	B
	10	4	18 19.1	19-21.7	155-29.1?	8.1	1.4	17	63	10.5	0.16	1.0	1.2	0.18	B
	10	5	36 22.7	19-23.1	155-17.3	14.1	1.2	18	63	0.8	0.09	0.8	1.2	0.12	B
	10	7	59 33.3	19-19.7	155-15.2	5.9	1.0	16	177	3.9	0.18	1.1	0.9	0.19	C
	10	9	14 28.7	19-19.5	155-11.2	4.8	1.5	16	171	6.0	0.20	1.3	1.3	0.27	C
	10	11	8 22.3	19-25.0	155-25.0?	0.0	1.5	14	101	8.9	7.98	0.8	15.2	0.17	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
AUG 11	1	37	38.7	19-21.0	155- 8.4	37.5	1.3	21	132	3.2	0.23	1.1	1.9	0.09	B
12	4	28	58.7	19-22.4	155-26.3	5.0	1.3	20	57	6.6	0.08	0.6	0.9	0.18	B
12	7	54	31.6	19-12.4	155-26.6	30.8	1.1	15	168	5.8	0.52	2.1	4.2	0.10	C
12	11	1	0.2	19-20.6	155-14.4	8.8		9	235	4.2	0.52	2.8	2.9	0.12	D
12	16	4	30.9	19-20.8	155-14.7	6.7		10	185	3.7	0.26	1.4	1.2	0.13	C
12	16	35	33.4	19-19.8	155-14.5	9.0	1.2	12	201	5.0	0.20	1.1	1.7	0.09	C
12	16	55	52.1	19-19.8	155-11.6	8.9	0.8	11	164	5.1	0.17	1.2	2.5	0.10	C
12	16	58	5.4	19-18.8	155-16.2	6.8	1.2	11	145	3.2	0.10	0.9	0.7	0.11	B
13	2	35	6.9	19-10.8	155-35.3	4.4	1.5	17	135	8.2	0.15	1.1	1.1	0.21	C
13	3	4	37.0	19-17.0	155-22.3	8.0*		8	269	6.2	0.80	4.8		0.22	D
13	13	15	6.6	19-22.2	155-25.6	8.0*	1.8	11	70	5.4	0.06	0.6		0.11	B
13	16	58	3.3	19-20.5	155-23.3	15.1	1.8	10	59	0.6	0.33	2.1	4.7	0.22	B
13	17	51	11.3	19-22.1	155-25.6	8.0*		12	70	5.3	0.06	0.6		0.11	B
13	18	27	34.6	19-25.3	155-25.5	8.0*	1.8	10	158	9.2	0.06	0.4		0.06	C
13	20	10	37.7	19-19.0	155-14.8	6.3	1.6	13	197	4.9	0.22	1.4	0.9	0.21	C
13	20	16	13.4	19-18.9	155-14.3	8.0*	2.0	17	172	5.8	0.06	0.4		0.08	C
13	21	12	28.4	19-19.3	155-13.9	11.7	1.9	10	198	6.3	0.20	0.8	1.7	0.06	B
13	22	20	16.4	19-20.0	155-12.0	12.3	0.7	11	207	4.6	0.27	1.0	2.0	0.06	C
14	2	5	12.7	19-18.9	155-15.3	10.7		9	196	4.3	0.24	1.1	1.9	0.07	C
14	3	45	46.6	19-17.7	155-14.3	12.4	0.8	8	230	7.1	0.32	1.2	2.5	0.07	C
14	7	1	28.9	19-30.7	155-13.7?	8.0*	1.5	15	132	10.2	0.19	1.5		0.33	C
14	9	45	4.5	19-19.9	155-16.8	5.7	1.2	11	196	1.1	0.21	1.4	0.9	0.16	C
14	17	21	7.8	18-59.2	154-48.2	8.0*		16	299	46.1	1.35	8.3		0.16	D
15	1	37	11.1	19-11.4	155-14.4?	19.9	1.7	10	288	14.2	1.06	5.9	5.8	0.12	D
15	12	46	23.2	19-17.2	155-23.3?	5.7	1.3	16	127	5.5	0.09	0.8	0.9	0.18	B
15	14	2	2.7	19-22.3	155-27.1	4.6	1.3	16	78	7.7	0.11	0.8	1.3	0.20	B
16	2	5	29.2	19-20.3	155- 9.9	5.2	1.0	12	161	3.3	0.20	1.6	1.6	0.20	C
16	10	18	43.6	19-18.9	155-15.3	9.6		9	196	4.3	0.30	1.5	2.6	0.09	C
16	13	59	52.0	19-24.5	155-24.3	8.0*	1.6	7	202	8.0	0.15	1.0		0.10	C
16	15	50	27.8	19-19.0	155-15.5	10.7		10	191	3.9	0.18	0.8	1.5	0.07	B
16	16	15	32.3	19-19.9	155-11.9	8.0*	0.3	8	212	5.4	0.24	1.8		0.15	C
16	16	41	55.3	19-11.0	155-50.6	7.5	0.3	8	269	9.6	0.62	6.5	5.7	0.18	D
16	17	9	28.4	19-24.4	155- 6.0	8.0*	0.5	7	218	8.0	0.39	3.7		0.17	C
17	15	18	19.5	19-21.3	155-24.2	8.1	1.1	10	124	2.6	0.08	0.7	1.5	0.10	B
17	15	22	30.1	19-21.8	155-11.3	6.6	0.9	13	137	2.5	0.06	0.6	0.4	0.10	B
17	16	0	50.9	19-20.0	155-12.9	8.0*	0.2	10	158	6.8	0.11	0.9		0.13	C
17	19	32	59.4	19-42.1	155-47.8	18.4	1.0	15	217	4.6	0.24	1.5	1.9	0.09	C
18	1	1	9.6	19-32.4	155-34.9	8.0*		9	162	6.0	0.09	0.7		0.10	C
18	2	9	38.4	19-23.3	155-24.6	8.0	1.5	16	65	6.3	0.06	0.6	1.9	0.10	B
18	3	3	28.9	19-23.9	155-25.3	8.0*	1.6	14	145	7.8	0.13	0.9		0.14	C
18	5	38	23.8	19-24.8	155-16.8	15.2	1.1	15	117	0.5	0.07	0.6	0.8	0.08	A
18	8	19	59.3	19-21.8	155-16.1	21.6		10	158	1.2	0.26	1.2	2.5	0.09	C
18	8	34	43.0	19-21.2	155-24.1	11.3	2.2	16	65	2.4	0.11	1.0	1.4	0.18	B
18	14	55	17.1	19-19.9	155-13.6	6.4	2.0	20	157	4.9	0.11	0.8	0.7	0.21	C
18	16	28	8.1	19-30.1	155- 7.4	8.0*		10	179	6.4	0.21	1.9		0.22	C
18	23	14	3.9	19-20.5	155- 7.3?	0.8	2.1	21	159	5.3	1.32	1.1	4.8	0.22	C
19	3	5	45.4	19- 5.9	155-22.4	8.0*		11	225	20.9	0.46	3.4		0.28	C
19	3	32	17.7	19-23.9	155-24.5	8.3	2.0	20	63	7.2	0.07	0.5	0.5	0.13	B
19	17	59	34.1	19-21.3	155-26.0	8.0*		10	138	5.1	0.08	0.8		0.11	C
19	19	27	7.1	19-25.9	155-44.1?	8.2		13	277	15.5	0.57	3.6	1.9	0.14	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
AUG	19	21	5 55.8	19-19.2	155-15.4	27.0		15	163	3.9	0.16	0.8	1.5	0.08	B
	19	21	19 22.7	19-19.0	155-15.3	28.2		15	165	4.2	0.18	0.8	1.7	0.07	B
	20	2	57 38.0	19-10.9	155-46.9	3.6	2.7	12	239	18.7	0.36	1.9	1.1	0.08	C
	20	3	0 17.6	19-26.3	155-49.7	9.1	2.8	16	179	13.2	0.15	1.8	2.3	0.18	C
	20	9	26 34.7	19-29.8	155-15.0	22.5	1.9	14	122	8.0	0.09	0.6	1.1	0.06	B
	20	12	24 25.0	18-32.4	155-32.3	81.7*	3.4	15	328	50.7	0.73	6.5		0.18	D
	20	15	10 38.1	19-20.9	155-13.6	10.4	1.7	10	166	4.9	0.24	1.1	2.0	0.09	C
	20	15	48 39.2	19-22.5	155-24.6	8.0	0.3	9	219	4.8	0.16	1.1	0.5	0.10	C
	20	21	12 57.4	20- 7.4	155-36.6?	2.2*		15	228	17.8	0.27	2.5		0.20	D
	21	0	39 28.3	19-19.5	155-15.5	6.5	0.8	11	177	3.5	0.25	1.2	1.6	0.17	C
	21	1	14 31.7	19-25.5	155-27.1	3.5	1.1	12	116	10.4	0.10	0.7	2.1	0.17	C
	21	4	14 21.8	19-24.7	155-24.5	8.0*	1.7	12	99	8.5	0.04	0.4		0.07	C
	21	9	42 49.4	19-19.9	155- 8.8	8.9	1.8	10	169	4.5	0.08	0.6	1.4	0.06	B
	21	17	18 16.1	19-16.6	155-23.1	6.3	1.8	15	142	6.4	0.15	1.3	1.0	0.24	C
	22	1	47 47.6	19-20.4	155-19.5	4.9	1.9	15	61	3.7	0.05	0.4	0.5	0.10	B
	22	2	19 21.6	19-26.6	155-27.9	8.0*	1.1	9	125	10.0	0.05	0.5		0.06	C
	22	9	41 24.3	19-22.8	155- 5.0	3.1	1.5	15	137	6.4	0.13	0.9	1.1	0.17	B
	22	11	34 29.4	19-20.4	155-14.4	26.7	1.7	18	160	4.6	0.13	0.8	1.2	0.09	B
	22	13	28 11.3	19-19.9	155- 7.9	3.1	1.4	18	169	5.2	0.17	1.1	1.6	0.22	C
	22	13	53 26.1	19-20.1	155-12.2?	7.2	0.6	13	160	4.4	0.21	1.5	1.1	0.22	C
	23	1	37 40.8	19-23.5	155- 3.4	2.8	1.0	15	112	6.6	0.16	1.1	1.5	0.26	C
	23	1	52 33.1	19-58.3	155-31.6	25.5	1.9	24	172	21.2	0.19	1.1	2.7	0.12	C
	23	2	34 41.2	19-19.4	155- 9.0	8.0*	0.6	12	176	5.2	0.17	1.5		0.21	C
	23	2	56 45.3	19-11.3	155-20.4	24.8	1.3	21	193	12.6	0.17	1.4	1.8	0.14	C
	23	7	38 54.7	19-23.0	155-43.4	8.0	0.7	9	264	17.4	0.42	2.6	1.5	0.08	D
	23	10	29 30.0	19-22.0	155-28.9?	4.0	2.1	15	89	10.4	0.12	0.9	1.8	0.23	C
	23	13	3 54.7	19-22.4	155-24.7	8.0*	0.4	9	90	4.7	0.06	0.6		0.09	B
	23	13	55 48.0	19-21.0	155-10.3	12.3	1.8	10	150	2.1	0.20	1.0	2.0	0.09	B
	23	20	26 3.8	19-19.7	155-10.7	8.0*	1.8	9	169	4.7	0.08	0.7		0.09	C
	23	21	0 22.2	19-15.7	155-22.5	8.0*	0.5	10	222	7.6	0.22	1.5		0.14	C
	24	2	3 17.4	19-26.9	155-10.9	25.5*	1.8	8	277	7.4	0.45	7.7		0.20	D
	24	2	59 5.6	19-20.2	155-16.2	8.9		8	219	2.1	0.14	0.8	1.0	0.03	B
	24	4	38 59.4	19-27.6	155-25.9	8.0*		7	245	6.1	0.18	1.1		0.05	D
	24	4	39 24.1	19-22.8	155-25.1	8.0*	0.8	11	139	5.7	0.06	0.5		0.08	C
	24	9	32 1.6	19-18.4	155-15.3	9.7	0.4	10	265	4.8	0.39	2.0	2.5	0.10	C
	24	10	38 1.9	19-23.2	155-17.4	13.3	2.8	24	61	3.0	0.05	0.6	0.5	0.13	B
	24	14	42 2.0	19-24.7	155-25.9	8.0*	2.3	21	69	9.5	0.07	0.6		0.12	C
	24	21	22 20.9	19-22.3	155-24.6	7.0	0.6	13	67	4.6	0.12	0.9	1.4	0.14	B
	24	21	45 31.0	19-24.2	155- 2.9?	0.0	1.3	15	119	7.9	6.74	1.1	12.8	0.26	C
	24	22	1 10.3	19-20.4	155-11.1	6.7	1.3	19	163	3.7	0.14	1.2	0.7	0.22	C
	25	1	56 51.1	19-23.4	155-24.9	3.0	0.8	12	214	6.6	0.20	1.1	1.3	0.14	C
	25	2	15 26.9	19-56.1	155-23.5	29.0	3.2	29	171	7.1	0.15	1.1	2.2	0.15	C
	25	5	46 23.9	19-19.8	155-12.5	8.0*	0.3	13	163	6.2	0.09	0.7		0.11	C
	25	12	51 2.1	19-10.5	155-27.3	29.0		16	163	19.1	0.30	1.5	3.3	0.14	C
	25	19	7 14.6	19-20.7	155- 7.2	6.3		19	155	5.3	0.13	1.0	0.8	0.21	C
	25	23	51 0.8	19-17.9	155-16.4	9.8		10	256	4.0	0.57	2.7	3.2	0.09	D
	26	2	56 0.8	19-24.9	155-22.8	8.0*	1.6	18	86	5.9	0.06	0.6		0.15	B
	26	13	15 35.2	19-22.2	155-29.6	5.1	2.0	15	95	11.6	0.11	0.8	1.1	0.18	C
	26	15	5 31.8	19-18.2	155- 9.3?	0.0	1.9	14	189	7.2	7.66	1.4	14.5	0.23	C
	26	17	28 43.0	19-19.0	155-13.8	7.8	1.7	14	175	6.6	0.17	1.3	0.7	0.18	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
AUG	26	17	56 56.7	19-17.8	155-49.5	4.8	2.8	15	254	22.4	0.83	3.3	2.6	0.16	D
	26	21	19 44.7	19-20.7	155-25.0	6.3		14	112	3.2	0.13	1.2	1.3	0.22	B
	27	3	23 35.6	19-19.1	155-15.5	6.5	1.6	19	162	3.7	0.14	1.0	0.7	0.18	C
	27	4	24 12.6	19-18.5	155-48.2?	2.5	2.9	16	249	20.6	1.26	3.4	7.2	0.19	D
	27	7	22 53.9	19-19.8	155-12.8	8.0*		10	201	6.6	0.15	1.1		0.11	C
	27	11	0 2.9	19-17.8	155-15.6	9.3		10	221	5.2	0.36	2.0	2.9	0.14	C
	27	11	0 54.5	19-32.1	155-36.8	8.5	3.0	18	120	5.4	0.09	0.8	1.1	0.15	B
	27	15	26 26.3	18-57.7	155-30.2	32.5	2.7	22	228	17.2	0.42	2.2	3.4	0.13	C
	27	16	24 59.5	19-22.1	155-30.4?	0.0	1.9	11	155	12.3	3.51	1.6	25.6	0.25	C
	27	17	22 46.8	19-46.4	155-21.1	13.5*		10	177	12.9	0.09	1.2		0.10	C
	27	18	4 40.0	19-25.2	155-27.1	4.1		11	119	10.8	0.10	0.7	1.1	0.16	C
	27	22	51 17.3	19-18.0	155-15.1	8.1	1.8	19	181	5.6	0.11	0.8	1.4	0.12	C
	28	4	38 49.1	19-29.8	155-27.3	24.5	2.1	15	108	7.1	0.25	1.4	2.6	0.12	B
	28	22	44 53.1	19-22.4	155- 4.3	4.7		14	148	5.3	0.17	1.2	1.2	0.20	B
	29	1	49 41.9	19-20.6	155- 9.7	10.0		10	157	2.8	0.11	0.9	1.7	0.07	B
	29	1	54 51.6	18-51.1	155-18.9?	8.0*		12	263	37.3	1.16	7.6		0.24	D
	29	8	44 52.5	19-18.0	155-23.5	3.7		12	151	4.0	0.11	0.9	1.5	0.15	C
	29	8	45 16.1	19-17.8	155-23.2	2.4		9	158	4.4	0.08	0.6	1.0	0.08	B
	29	9	51 26.3	19-35.1	155- 9.3	8.0*		9	245	13.3	0.22	1.4		0.08	D
	29	13	34 34.1	19- 9.7	155-27.0	26.7		15	176	1.6	0.21	1.2	2.3	0.12	C
	29	17	10 13.9	19-28.2	155-41.8	7.7	3.0	21	68	10.4	0.10	0.5	0.7	0.10	B
	29	18	4 53.3	19-19.7	155-17.6	28.4		15	135	0.8	0.14	0.7	1.5	0.07	B
	29	22	41 35.4	19-19.2	155-12.2	4.6		16	174	6.8	0.15	1.0	0.9	0.19	C
	29	22	43 35.3	19-18.6	155-15.1	5.6	1.6	17	203	4.8	0.20	1.2	0.9	0.19	C
	30	2	19 10.4	19-18.5	155-10.7	4.4		12	183	6.8	0.21	1.4	1.5	0.19	C
	30	3	5 35.5	19-20.4	155-17.2	5.2		12	177	0.6	0.20	1.0	1.4	0.13	C
	30	10	7 42.9	19-21.3	155- 7.6	3.3	1.8	17	145	8.6	0.13	1.0	1.1	0.18	B
	31	6	27 20.0	19-23.6	155-25.1?	0.0	1.3	14	100	9.4	0.31	1.0	19.7	0.22	C
	31	16	50 27.4	19-23.8	155-17.0	14.4	1.9	12	61	0.8	0.07	0.5	0.8	0.06	A
	31	18	13 20.7	19-12.1	155-27.9	6.0	2.3	16	149	8.3	0.14	1.0	0.8	0.14	B
	31	22	14 49.9	19-22.6	155-16.0?	4.1	0.6	7	86	0.4	0.45	2.0	3.8	0.23	C
	31	23	13 54.9	19-23.2	155-10.3	42.9	2.5	13	194	2.2	0.34	1.7	2.5	0.07	C
SEP	1	3	22 33.7	19-20.2	155-19.8	2.3*	1.8	8	116	4.2	0.04	0.2		0.05	B
	1	18	2 6.8	19-23.0	155-16.4	15.9	1.9	20	57	1.2	0.08	0.7	1.0	0.11	B
	1	20	23 17.0	20- 7.2	155-55.7	34.2	2.0	18	271	15.6	0.19	1.2	2.0	0.08	C
	2	2	42 38.2	19-23.6	155-16.4	13.0	1.6	23	53	1.1	0.04	0.5	0.4	0.10	B
	2	2	56 48.2	19-23.7	155-16.4	12.7	1.7	17	70	2.4	0.06	0.7	0.6	0.13	B
	2	2	59 29.3	19-25.2	155-24.3?	6.1	1.1	19	62	7.7	0.08	0.8	3.3	0.17	B
	2	5	46 9.3	19-22.2	155-23.7	6.8	1.3	21	62	3.8	0.09	0.8	0.7	0.21	B
	2	6	46 53.3	19-10.6	155-32.4	6.0	1.8	14	106	8.3	0.18	1.3	1.2	0.23	C
	2	17	54 11.9	19-19.5	155-17.3	30.4	2.4	25	132	1.1	0.12	0.7	1.2	0.11	B
	3	7	58 59.7	19-38.1	156- 0.6	5.3	2.3	15	224	15.6	0.49	2.4	1.5	0.21	C
	3	10	39 46.9	19-19.4	155-14.1	8.0*	1.2	6	196	6.0	0.28	2.9		0.18	C
	3	14	34 6.9	19-24.0	155-23.5?	8.1	2.6	23	68	6.7	0.06	0.5	0.5	0.14	B
	3	16	50 50.3	19-23.0	155- 3.6	4.9	1.1	8	169	5.8	0.18	1.2	1.5	0.14	C
	4	4	33 10.8	19-19.7	155-12.6	8.0*	0.5	9	205	6.5	0.14	1.2		0.12	C
	4	9	15 28.5	19-22.5	155-23.3?	8.2	0.9	13	111	4.3	0.08	0.7	0.6	0.14	B
	4	22	52 7.4	19-20.2	155-11.9	8.0*		8	206	5.0	0.19	1.4		0.12	C
	5	0	24 56.9	19-18.8	155-13.6	5.7	1.5	19	176	7.2	0.13	0.9	0.8	0.18	C
	5	1	31 33.6	19-20.0	155-12.3	8.1	4.8	24	140	4.6	0.08	0.6	0.4	0.12	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
SEP	5	1	40 7.9	19-18.7	155-11.9	8.0*	0.5	13	182	7.3	0.15	1.1		0.13	C
	5	1	41 9.7	19-19.8	155-12.3	8.0*	0.6	9	207	6.1	0.15	1.1		0.10	C
	5	1	41 34.2	19-22.9	155-26.3	2.7	1.4	20	73	7.2	0.12	0.8	1.7	0.24	C
	5	1	59 50.7	19-19.1	155-12.4	2.5	1.4	21	174	6.2	0.18	1.0	1.3	0.24	C
	5	2	8 14.9	19-20.6	155-12.3	8.0*	0.6	10	151	5.1	0.04	0.3		0.04	C
	5	6	21 52.2	19-18.7	155-12.3	2.5	1.3	23	156	6.9	0.17	0.9	1.3	0.23	C
	5	6	53 56.2	19-18.6	155-12.3	2.3	1.6	22	156	7.1	0.17	1.0	1.6	0.25	C
	5	7	10 16.8	19-20.2	155-12.1?	8.0*-	0.0	10	201	5.3	0.26	2.2		0.24	C
	5	9	7 24.1	19-18.9	155-12.5	8.0*	0.2	11	193	6.6	0.11	0.8		0.09	C
	5	10	45 15.8	19-18.5	155- 8.5	8.0*	0.5	12	202	7.0	0.18	1.4		0.15	C
	5	17	40 45.4	19-25.2	155-21.3?	2.6	1.0	11	136	3.9	0.19	0.6	0.7	0.13	B
	5	19	21 41.2	18-54.0	155-17.5	9.9	2.1	11	271	33.9	0.62	3.3	2.7	0.12	D
	5	20	55 19.3	19-19.8	155-12.4	8.0*	0.8	13	164	6.1	0.09	0.7		0.12	C
	5	20	57 56.5	19-24.4	155-17.0	7.8	0.4	14	57	0.9	0.05	0.6	0.4	0.11	B
	5	21	6 5.5	18-54.3	155-15.3	2.5	2.8	16	250	35.7	1.35	2.7	8.0	0.17	D
	5	22	26 40.2	19-19.6	155- 6.8	8.0*	1.9	14	178	6.8	0.17	1.4		0.18	C
	5	22	43 9.6	19-22.2	155-24.0	5.6	0.8	13	98	3.8	0.11	1.0	1.3	0.19	B
	5	23	0 25.8	18-53.0	155-16.4	8.8	2.2	14	273	36.5	0.61	3.2	2.7	0.12	D
	5	23	6 8.8	18-55.1	155-17.0	15.4*	2.8	18	246	32.6	0.22	1.6		0.14	D
	5	23	30 45.4	19-24.1	155-24.7?	0.0	0.8	14	174	7.6	6.86	0.8	13.0	0.13	C
	5	23	41 6.1	19-20.7	155- 6.9	7.8	3.9	24	133	5.7	0.08	0.7	0.5	0.15	C
	5	23	47 37.4	19-20.4	155- 7.6	7.8	1.8	11	160	5.0	0.10	1.0	0.6	0.14	C
	5	23	49 50.3	19-22.1	155- 6.9?	7.6	2.4	20	118	5.2	0.09	0.8	0.6	0.16	B
	5	23	56 39.4	19-23.9	155-24.4	4.9	1.2	16	156	7.2	0.10	0.7	0.9	0.15	C
	6	0	1 28.6	18-55.7	155-16.8	16.7*	2.8	23	244	32.0	0.22	1.5		0.15	D
	6	0	4 24.4	19-20.2	155- 7.3	8.0*	0.7	12	175	5.7	0.12	1.2		0.13	C
	6	0	19 11.4	18-54.7	155-16.6	9.2	2.0	16	248	33.7	0.47	2.3	2.9	0.15	C
	6	0	40 51.1	18-55.1	155-16.7	9.2	2.5	16	247	33.0	0.42	2.0	2.6	0.13	C
	6	1	52 39.6	19-20.7	155- 6.7	8.0*		13	153	6.1	0.10	1.0		0.12	C
	6	2	1 4.7	19-19.8	155- 7.6	8.0*	0.2	8	171	5.8	0.08	0.9		0.07	C
	6	2	15 7.6	18-54.4	155-16.3	9.6	1.0	9	263	34.5	0.90	4.5	4.1	0.11	D
	6	2	35 31.7	19-21.6	155- 6.4	8.0*		14	137	6.0	0.14	1.5		0.23	C
	6	2	38 12.2	19-24.6	155-24.7	8.1	1.4	22	60	8.6	0.07	0.5	0.5	0.15	B
	6	2	40 43.8	19-30.4	155-49.0	4.4	0.9	14	265	22.8	0.25	1.2	1.0	0.16	C
	6	3	21 3.1	18-50.4	155-20.6	8.5	2.0	13	265	37.3	0.52	3.1	3.2	0.12	D
	6	3	52 13.4	18-55.0	155-16.3?	12.7	3.1	25	247	33.6	0.40	1.7	2.8	0.15	D
	6	3	58 5.7	18-53.7	155-14.9	1.9*	1.6	13	259	37.0	0.49	3.2		0.19	D
	6	4	2 30.9	18-54.2	155-15.7?	8.3	3.4	25	250	35.3	0.52	2.1	2.0	0.17	D
	6	4	12 40.7	19-19.4	155-14.8	5.8	0.8	19	144	4.7	0.11	0.8	0.7	0.19	B
	6	6	1 9.0	19-19.6	155-14.2	8.0*	0.5	15	159	5.7	0.06	0.5		0.09	C
	6	6	24 29.0	19-19.1	155-15.7?	8.9	0.1	13	185	3.4	0.21	1.3	2.1	0.15	C
	6	6	54 41.7	18-56.4	155-17.7	10.3	1.5	15	246	30.1	0.41	2.1	2.3	0.11	C
	6	6	58 21.5	18-54.5	155-15.8	8.1	2.1	15	255	34.7	0.61	2.9	3.5	0.15	D
	6	9	7 55.9	19-18.9	155-27.4?	0.0	1.2	13	100	7.5	1.78	1.5	22.3	0.25	C
	6	9	44 2.8	19-19.3	155-12.9	12.5		9	210	7.5	0.39	1.4	3.0	0.08	C
	6	12	39 45.3	19-23.4	155-24.9	8.0*		8	218	6.5	0.15	1.0		0.08	C
	6	15	10 6.3	19-10.5	155-30.2	39.0	2.1	19	149	14.5	0.28	1.2	2.8	0.13	B
	6	19	29 56.9	18-55.3	155-16.5	8.8	1.7	13	287	32.9	0.87	4.8	3.0	0.13	D
	7	0	43 15.9	19-18.9	155-15.1	5.9	0.8	13	198	4.6	0.20	1.2	1.0	0.18	C
	7	1	33 37.9	18-55.3	155-15.7	8.6	2.1	17	247	33.8	0.53	2.5	3.3	0.16	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
SEP 7	1	45	5.9	18-55.3	155-15.3	11.1*	3.2	20	247	34.2	0.37	2.6		0.19	D
7	1	54	7.0	18-55.9	155-16.2	7.8	2.1	16	250	32.3	1.38	2.8	8.6	0.17	D
7	3	35	4.4	18-54.1	155-15.7	9.6	1.7	14	251	35.6	0.44	2.2	2.6	0.11	C
7	4	37	0.1	18-48.7	155-17.7	8.0*	2.7	17	272	42.3	0.39	2.6		0.11	D
7	5	58	13.1	18-49.1	155-18.3	8.9*	2.5	13	271	41.3	0.47	3.1		0.12	D
7	8	47	46.6	19-20.3	155- 7.3	8.0*	0.2	10	163	5.6	0.08	0.8		0.10	C
7	8	48	21.2	19-19.4	154-59.8?	8.0*	0.2	9	232	18.2	1.29	8.6		0.32	D
7	10	24	43.7	19-20.3	155-12.1	8.4	0.4	12	156	4.1	0.08	0.6	1.2	0.08	B
7	11	21	2.9	19- 1.2	155- 7.0	16.5*	2.8	23	241	35.3	0.31	2.1		0.18	D
7	11	28	53.8	18-46.2	155-28.6	39.2*	3.4	24	284	30.8	0.43	3.1		0.17	D
7	15	49	48.3	18-54.6	155-16.0?	7.8	1.1	14	249	34.4	1.06	2.1	6.6	0.12	D
7	15	54	3.9	18-54.5	155-17.1	8.9	1.2	12	253	33.5	0.60	2.9	3.2	0.12	D
7	18	46	59.5	18-53.4	155-16.0?	9.5	1.4	14	253	36.3	0.88	1.8	5.4	0.11	D
7	18	53	53.9	18-31.9	155-18.8	8.0*	1.5	16	300	62.1	1.16	7.2		0.15	D
7	19	19	19.8	19-23.7	155-28.7	8.0*	0.6	16	91	11.5	0.14	1.1		0.19	C
7	23	45	42.1	19-26.9	155-27.8	20.6	1.0	16	87	9.4	0.09	0.5	1.1	0.07	A
8	1	10	26.7	19- 7.2	155-25.7	37.8	0.7	14	179	5.8	0.26	1.7	2.6	0.14	C
8	4	57	15.3	19-20.5	155-20.0?	4.2	0.1	8	113	4.7	0.80	0.9	2.8	0.11	B
8	6	7	37.0	19-20.2	155-11.5	9.4	0.3	15	159	4.5	0.08	0.6	1.0	0.08	B
8	12	19	38.1	19-19.3	155-14.6	6.0		15	193	5.1	0.15	0.9	0.7	0.14	C
8	15	30	58.2	19-19.8	155- 7.1	8.0*		14	171	6.4	0.16	1.4		0.20	C
8	17	42	52.9	19-24.8	155-21.8	5.5	1.4	18	143	4.2	0.11	0.8	0.8	0.18	B
8	21	47	44.6	19-18.8	155-12.1	2.9	2.0	25	155	6.7	0.16	0.9	1.2	0.26	C
9	4	42	42.1	19-12.0	155-26.7	6.4	2.2	20	133	5.0	0.10	0.9	0.6	0.16	B
9	4	49	2.8	19-11.9	155-26.4	6.3	2.8	24	141	5.1	0.10	0.8	0.7	0.19	B
9	5	3	48.3	19-12.3	155-27.0	6.6		13	124	5.3	0.10	0.9	0.7	0.12	B
9	5	8	55.8	19-27.2	155-13.8	8.0*		6	146	9.5	0.23	2.2		0.22	C
9	11	39	49.7	19-19.4	155-13.7	8.0*		11	199	6.6	0.16	1.1		0.12	C
9	15	46	8.8	19-20.7	155- 7.8	3.8	2.8	23	139	4.3	0.14	0.9	0.9	0.21	C
9	16	22	21.4	19-19.0	155-15.4	6.9	1.7	18	171	4.0	0.10	0.8	0.6	0.14	C
9	21	13	9.5	19-10.9	155-33.7	4.8	2.7	24	102	9.5	0.13	0.9	1.0	0.22	C
9	22	59	2.0	18-52.5	155-15.8	5.6	3.2	20	256	37.9	1.17	2.5	7.7	0.14	D
10	13	0	32.3	19-23.4	155-24.9	8.1	1.7	20	65	6.6	0.12	0.8	0.8	0.18	B
10	13	1	24.5	19-24.4	155-17.7	8.2	1.3	9	88	1.6	0.07	0.5	0.7	0.04	A
10	13	2	8.8	19-20.9	155- 8.0?	0.0	2.3	20	153	8.6	4.68	1.0	8.9	0.22	C
10	15	49	59.7	19-23.1	155-22.9	8.1	2.2	19	53	5.4	0.04	0.5	1.0	0.12	B
10	18	20	33.6	19-24.9	155-17.0	8.1	1.3	9	73	0.1	0.05	0.5	0.3	0.04	A
10	19	56	19.9	19-24.5	155-23.4	7.8	1.9	20	91	6.7	0.07	0.5	0.4	0.15	B
10	20	24	55.1	19-21.1	155-24.7	4.5	1.9	20	77	3.0	0.08	0.7	0.9	0.22	B
10	22	42	38.3	19-10.0	155-35.4	7.1	3.3	22	107	9.5	0.16	1.0	1.0	0.19	C
10	23	19	53.2	19-23.3	155-28.2?	0.0	1.9	13	137	10.4	4.67	1.5	27.8	0.23	C
11	0	21	57.4	19-11.8	155-22.3	26.8		14	257	15.5	0.53	3.1	3.1	0.10	D
11	11	40	29.7	19-19.7	155-18.2	27.6	2.1	23	105	1.5	0.12	0.8	1.3	0.12	B
11	11	45	36.8	19-19.8	155-13.6	7.5	1.3	20	144	5.1	0.07	0.5	0.4	0.10	B
11	20	20	2.6	19-19.3	155-15.4	6.6	1.3	19	143	3.9	0.10	0.8	0.7	0.16	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
SEP	12	4	34 21.8	19- 9.4	155-39.1	4.3	0.4	10	195	10.7	0.20	1.5	1.2	0.14	C
	12	4	57 50.3	19-20.4	155- 7.8	8.0*	0.3	12	160	4.8	0.18	1.6		0.21	C
	12	7	55 1.2	19-21.0	155-16.9	26.7	0.9	17	109	1.9	0.12	0.7	1.2	0.08	A
	12	13	43 32.1	19-21.1	155- 7.2	3.3	1.4	15	148	5.0	0.14	1.1	1.4	0.18	C
	13	0	51 55.3	19-23.4	155-15.4	4.1		11	97	2.0	0.13	0.5	1.4	0.11	B
	13	6	5 40.5	19-23.2	155-25.1	8.0*	0.4	11	151	6.3	0.10	0.7		0.12	C
	13	7	19 6.2	19-23.7	155-24.8	8.0*	1.9	17	75	7.0	0.07	0.6		0.13	B
	13	7	48 2.2	19-19.3	155- 8.9	3.6	1.6	17	178	5.4	0.19	1.2	1.3	0.24	C
	13	7	49 21.4	19-18.1	155-15.8	6.6	1.1	17	151	4.7	0.13	0.9	0.7	0.20	C
	13	8	56 44.6	19-18.1	155-15.3	7.0	1.1	16	182	5.2	0.14	0.9	0.6	0.16	C
	13	8	57 33.2	19-27.1	155-27.6	6.8	2.7	23	43	9.1	0.09	0.7	0.7	0.19	C
	13	11	44 46.8	19-22.1	155-25.4	8.0	0.8	13	69	5.1	0.12	0.8	0.9	0.15	B
	13	13	40 1.3	19-24.0	155-25.5	7.9	2.9	24	45	7.9	0.12	0.5	0.9	0.15	B
	13	15	43 46.5	19-20.0	155-12.4	9.3		11	160	4.5	0.13	0.9	1.8	0.10	C
	13	15	53 9.5	19-17.8	155- 1.9	33.8	1.4	22	215	4.3	0.23	1.3	1.8	0.11	C
	13	22	6 3.6	19-19.7	155- 8.9	6.9	0.5	9	171	4.7	0.18	1.5	1.0	0.16	C
	14	0	36 8.6	19-21.7	155-27.5?	7.3	2.6	24	58	7.8	0.12	0.8	0.9	0.21	C
	14	7	1 31.6	19- 9.7	155-34.6	7.4	1.2	11	113	10.5	0.17	1.2	1.1	0.19	B
	14	10	26 47.0	19-19.5	155- 8.9	8.2	1.1	14	174	5.0	0.13	1.1	2.5	0.13	C
	14	12	5 38.6	19-22.3	155-25.4	8.0	1.3	22	54	5.3	0.11	0.7	0.7	0.17	B
	14	12	17 1.0	19-19.6	155-12.8	33.6	0.7	14	143	6.9	0.18	1.0	1.9	0.09	B
	14	18	20 25.7	19-54.1	155-17.0	21.9	1.6	23	202	6.4	0.14	1.0	1.7	0.11	C
	14	20	10 17.1	19-57.5	155-47.1	12.4*	0.9	7	220	18.8	0.16	2.1		0.07	C
	14	21	26 52.3	19-18.0	155-16.7	6.4	2.3	23	149	3.4	0.09	0.7	0.5	0.15	B
	14	21	42 54.8	19-22.9	155-15.6	25.2	0.9	18	106	1.0	0.14	0.9	1.4	0.10	B
	14	22	3 23.9	19-23.2	155-15.5	26.8	2.1	25	100	1.6	0.12	0.8	1.3	0.14	B
	15	0	11 9.4	19-11.9	155-23.1	32.3	1.3	15	175	9.4	0.26	1.3	2.3	0.11	C
	15	9	2 19.0	19-23.1	155-25.6?	7.9	0.8	20	69	6.7	0.13	0.8	0.8	0.18	B
	15	11	21 57.2	19-22.3	155-25.8	5.1	1.4	22	57	5.9	0.08	0.6	0.8	0.21	C
	15	15	10 34.6	19-20.0	155-11.7	9.6	0.1	14	163	4.9	0.09	0.6	1.1	0.09	B
	15	17	17 51.2	19-21.3	155-13.8	11.5	0.5	7	155	4.2	0.25	0.7	2.4	0.05	C
	15	18	53 19.0	19-19.9	155-12.6	8.0*	0.2	11	201	6.3	0.18	1.4		0.16	C
	16	0	24 43.2	19-11.8	155-16.3	40.0	1.6	14	163	15.5	0.27	1.1	2.7	0.09	C
	16	1	6 60.0	19-22.4	155-22.4?	1.5	1.3	11	139	4.5	0.12	0.9	2.1	0.20	C
	16	3	2 44.4	19-23.7	155-23.6	8.1	0.8	19	56	6.6	0.08	0.5	0.5	0.12	B
	16	4	6 46.3	19-24.1	155-25.9	2.2	0.8	17	114	8.5	0.11	0.7	1.4	0.19	B
	16	9	56 26.1	19-23.2	155-23.3?	1.4	0.9	17	92	5.6	0.81	0.6	1.5	0.21	C
	16	19	58 30.6	19-18.5	155-14.5	26.8	1.4	20	148	5.9	0.14	0.9	1.4	0.13	B
	16	20	3 14.9	19-40.9	156- 3.2	3.1	1.7	19	233	22.5	0.45	1.9	1.5	0.17	C
	17	11	14 6.2	19-19.1	155-13.5	8.0*	1.2	10	194	7.0	0.17	1.3		0.16	C
	17	12	42 50.7	19-20.6	155-12.9	7.4	1.0	18	150	3.5	0.10	0.8	0.5	0.16	B
	17	22	57 51.8	19- 4.7	155-34.1	38.1	1.9	23	165	14.1	0.30	1.4	2.7	0.13	C
	18	18	8 13.4	19-23.0	155- 7.8	8.0*	0.3	11	120	10.3	0.14	1.5		0.26	C
	18	19	24 23.0	19-20.9	155- 4.4	21.6*		7	326	9.8	0.36	3.4		0.08	D
	18	20	22 41.1	19-12.3	155-14.9	41.8	1.0	12	201	12.2	0.54	2.0	4.9	0.11	C
	19	0	36 40.9	19-19.3	155-15.0	8.4	0.6	13	170	4.4	0.13	0.9	1.7	0.12	C
	19	3	6 12.5	19-49.6	155-33.2	30.7	1.5	26	107	11.2	0.15	0.7	2.0	0.10	B
	19	6	39 7.2	19-19.8	155- 8.3	8.0*		15	170	4.9	0.14	1.1		0.16	C
	19	7	9 32.4	19-20.1	156-19.6	11.4	1.5	22	274	48.4	0.36	4.3	8.4	0.19	D
	19	12	4 46.1	19-20.9	155-13.6	11.7	0.4	8	168	4.9	0.21	0.6	1.9	0.05	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
SEP	19	15	39 1.8	19-19.8	155-15.3	7.0	1.5	21	139	3.6	0.07	0.6	0.4	0.14	B
	19	15	56 26.2	19-23.7	155-25.6	7.7	3.3	25	56	7.7	0.08	0.5	0.5	0.15	B
	19	16	27 13.3	19-23.3	155-25.9	8.0*	1.7	11	240	7.3	0.34	2.0		0.15	D
	19	16	51 19.4	19-23.4	155-26.0	8.0*		9	241	7.5	0.31	1.9		0.13	D
	19	20	14 40.8	19-23.8	155-26.2	8.0*	1.7	8	243	8.3	0.26	1.6		0.09	D
	20	0	18 10.3	19-22.6	155-24.0?	8.2	-0.1	9	127	4.6	0.10	0.8	1.2	0.10	B
	20	3	58 10.6	19-21.0	155- 7.6	9.2		6	163	4.4	0.11	1.1	1.5	0.03	C
	20	4	8 55.1	19-20.0	155- 7.1?	8.0*		13	167	6.1	0.17	1.8		0.26	C
	20	6	58 10.1	19-20.4	155-18.9	2.1*		8	92	2.6	0.03	0.2		0.05	B
	20	7	0 47.2	19-21.5	155-25.0	9.4	0.2	10	131	3.9	0.11	0.8	2.0	0.10	B
	20	11	45 22.6	19-19.2	155-11.9	3.6	1.4	19	174	6.1	0.19	1.2	1.3	0.28	C
	20	23	5 39.9	19- 8.3	155-25.9	43.5	1.8	14	179	4.1	0.47	2.3	4.3	0.19	C
	21	0	56 48.3	19-29.9	155-27.0	8.0*	1.1	8	134	6.5	0.07	0.8		0.09	C
	21	1	50 2.0	19-19.3	155-21.2	5.3		7	177	4.1	0.18	0.5	1.4	0.03	B
	21	3	55 47.9	19-22.8	155- 4.4	3.2	0.5	9	96	6.0	0.13	1.1	2.0	0.16	B
	21	5	6 12.0	19-20.1	155-10.1	8.7	0.2	9	163	3.6	0.07	0.6	1.1	0.06	B
	21	17	44 28.8	19-24.6	155-16.5	12.5	0.4	11	140	2.3	0.11	0.5	0.9	0.05	B
	21	19	54 32.4	19-27.1	155-45.4	4.3		10	132	17.0	0.21	1.2	1.5	0.17	C
	21	20	21 42.6	19-16.6	155-14.9	8.0*	0.8	10	217	7.0	0.17	1.1		0.10	C
	21	21	25 40.5	19-19.4	155-12.3	5.2	1.9	16	170	5.7	0.18	1.2	1.1	0.26	C
	21	21	48 59.1	19-19.8	155-11.9	4.9	1.4	15	165	5.1	0.16	1.0	1.1	0.21	C
	22	3	46 26.6	19-19.8	155-11.3	4.9	1.3	10	221	5.0	0.25	1.5	1.1	0.15	C
	22	5	35 43.4	19-19.7	155-10.4	4.5	1.2	15	168	4.4	0.14	1.0	1.0	0.17	C
	22	9	55 9.9	19-19.2	155-13.5	9.3		12	206	7.1	0.13	0.9	1.2	0.09	B
	22	13	0 25.2	19-19.1	155-13.3	8.0*	1.8	13	173	7.4	0.08	0.6		0.10	C
	22	14	18 9.7	19-22.3	155-15.4	25.0		13	114	0.9	0.25	1.0	2.3	0.08	B
	22	15	32 46.5	19-20.7	155-16.6	26.7	2.6	24	123	1.8	0.12	0.8	1.3	0.13	B
	22	17	31 49.9	19-17.3	155-23.8	4.5	1.9	16	138	5.4	0.08	0.7	0.9	0.17	B
	23	2	37 49.4	19-24.5	155-16.3	12.3	1.6	18	58	1.5	0.05	0.5	0.5	0.09	A
	23	7	31 39.6	19-25.6	155-24.4	8.0*	1.7	13	183	7.5	0.08	0.6		0.07	C
	23	10	18 11.3	19-22.9	155-23.8	8.0*	1.7	18	65	5.0	0.07	0.6		0.15	B
	23	18	58 52.1	19-22.4	155- 1.0	6.2		10	168	5.6	0.24	1.7	1.3	0.19	C
	23	19	28 20.8	19-19.4	155-12.7	3.7	1.7	21	148	5.6	0.14	0.8	1.1	0.23	C
	24	4	1 54.8	19-36.7	155- 6.4	8.0*	2.1	12	198	12.9	0.12	0.8		0.08	C
	24	14	58 6.6	19-21.4	155-14.5	27.3	2.0	16	129	5.5	0.14	0.9	1.5	0.13	B
	24	15	10 49.8	19-26.2	155-26.0	8.0*	1.1	12	131	8.2	0.13	1.0		0.15	C
	24	16	13 13.2	19-20.2	155-18.6	12.7	1.1	9	89	2.1	0.17	1.7	1.3	0.15	B
	24	17	50 24.4	19-18.6	155-14.7	9.4		10	208	5.5	0.26	1.3	2.4	0.10	C
	24	20	13 50.8	19-20.4	155-13.3	5.8	1.1	17	151	3.9	0.15	1.0	0.4	0.22	C
	25	0	50 36.4	19-19.9	155-13.5	9.8		11	190	6.2	0.21	1.0	1.9	0.09	C
	25	14	56 59.1	19-19.8	155-12.6	5.4	1.3	11	164	6.4	0.20	1.2	1.7	0.20	C
	25	17	52 59.6	19-24.4	155-23.1	8.0*	1.5	8	176	6.1	0.07	0.6		0.07	C
	25	18	0 22.5	19-24.4	155-23.4	8.0*	1.8	17	69	6.6	0.13	1.1		0.20	B
	25	18	31 44.9	19-19.8	155-12.1?	5.5	1.6	15	165	5.0	0.17	1.5	2.5	0.26	C
	25	20	23 55.3	19-34.6	155-14.4?	8.0*		10	233	16.9	0.34	2.0		0.21	D
	25	23	58 3.5	19-24.5	155-17.0	7.8	0.6	9	67	0.7	0.05	0.3	0.3	0.03	A
	26	1	44 9.0	19-20.0	155-12.0	2.8*	1.4	9	207	5.4	0.26	1.4		0.19	C
	26	2	2 40.8	19-23.6	155-25.3	8.0*	1.1	12	108	7.2	0.06	0.5		0.08	B
	26	13	55 57.6	19-18.3	155-21.4	8.0*	1.7	10	152	4.8	0.12	1.0		0.14	C
	26	16	16 25.5	19-28.1	155-55.3?	0.0	2.9	16	213	23.0	0.66	3.0	1.6	0.26	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
SEP	26	17	37	50.5	18-58.9	155-17.4	33.5		15	248	26.8	0.44	2.3	4.5	0.11	C
	26	20	26	44.4	19-19.9	155-24.9	7.9		8	163	2.9	0.10	1.0	0.7	0.09	C
	26	20	45	42.4	19-13.3	155-33.6?	7.2	2.5	20	78	6.9	0.12	1.0	0.9	0.22	B
	26	22	28	56.2	19-17.4	155-10.4?	0.0*	1.6	12	203	8.6	0.24	1.3		0.20	C
	26	23	4	42.1	19-23.9	155-29.1?	8.0*	1.8	11	240	12.3	0.43	2.5		0.22	D
	26	23	26	10.0	19-24.4	155-16.6	12.8		18	66	2.0	0.04	0.5	0.4	0.09	A
	27	1	59	7.9	19-24.3	155-25.2?	0.0	1.3	16	66	8.3	7.21	0.7	13.7	0.20	C
	27	4	38	29.6	19-19.2	155-11.6	3.6	1.1	15	174	6.1	0.19	1.1	1.5	0.24	C
	27	8	24	20.9	19-20.5	155-12.6	15.2	0.9	13	152	6.8	0.26	1.8	3.2	0.13	C
	27	9	57	59.5	19-20.1	155- 7.1	8.0*	0.9	9	165	6.0	0.08	0.8		0.07	C
	27	16	5	21.3	19-22.9	155-22.3	7.2	0.4	7	152	4.8	0.26	0.6	2.2	0.06	C
	27	18	22	2.7	19-19.8	155-11.7?	8.2		14	166	5.2	0.14	1.1	0.6	0.13	C
	28	3	50	14.2	19-24.1	155-26.4	8.0*	0.7	11	118	9.1	0.06	0.5		0.08	C
	28	7	28	14.6	19-18.3	155-14.1	10.9	0.3	10	218	6.7	0.43	1.8	3.5	0.10	C
	28	16	19	22.6	19-18.9	155-15.5	9.0	2.2	13	194	4.1	0.09	0.7	0.8	0.08	B
	29	0	26	37.3	19-19.9	155-11.7?	6.2	1.9	17	164	5.0	0.14	1.2	1.9	0.22	C
	29	5	19	16.5	19-20.3	155- 8.7	6.9	2.3	17	162	3.8	0.12	1.0	0.6	0.16	C
	29	12	47	26.6	19-20.3	155- 8.0	9.1	0.2	10	162	4.6	0.11	0.9	1.7	0.08	B
	29	19	26	51.4	19-22.4	155-23.4	8.2	1.1	21	51	4.1	0.07	0.5	0.5	0.14	B
	30	0	1	7.2	19-23.1	155-23.1	8.0*	0.7	11	174	5.3	0.09	0.7		0.12	C
	30	5	5	49.5	19-20.9	155-11.6?	8.0	0.1	11	149	3.8	0.10	0.9	0.7	0.14	B
	30	10	37	2.2	19-23.1	155- 6.2	0.6	1.7	21	101	6.7	0.54	0.7	1.0	0.18	C
	30	16	42	34.5	19-19.2	155- 9.2	3.4	2.2	22	158	5.4	0.19	1.1	1.2	0.28	C
	30	22	52	15.5	19-19.7	155-12.1	8.0*	0.6	11	231	5.9	0.17	1.1		0.11	D

Table 3. Felt earthquakes

Date	Time H	M	S	Magnitude	Felt report
Jul 12	20	31	49.0	3.3	Kapapala
14	09	36	57.5	4.5	Hilo, Papaikou, Honokaa, Pahoa
20	17	20	44.0	2.6	Kapapala
29	17	25	36.8	3.0	Kamuela
Aug 25	02	15	26.9	3.2	Paauilo, Hilo
Sep 5	01	31	33.6	4.8	Kealakekua, Kainaliu, Napoopoo, Kalapana, Hilo, Pepeekeo, Laupahoehoe, Waimea
5	23	41	06.1	3.9	Kalapana, Hilo, Volcano, Glenwood, Keaau, Pahoa, Waimea
7	04	37	00.1	2.7	Kapapala
13	13	40	01.3	2.9	Kapapala
14	00	36	08.6	2.6	Kapapala
19	15	56	26.2	3.3	Kapapala

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
KEALAKEKUA Z	KLK	19 31.20	155 55.30	505	2	1.0			Discontinued 9/20/72
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					

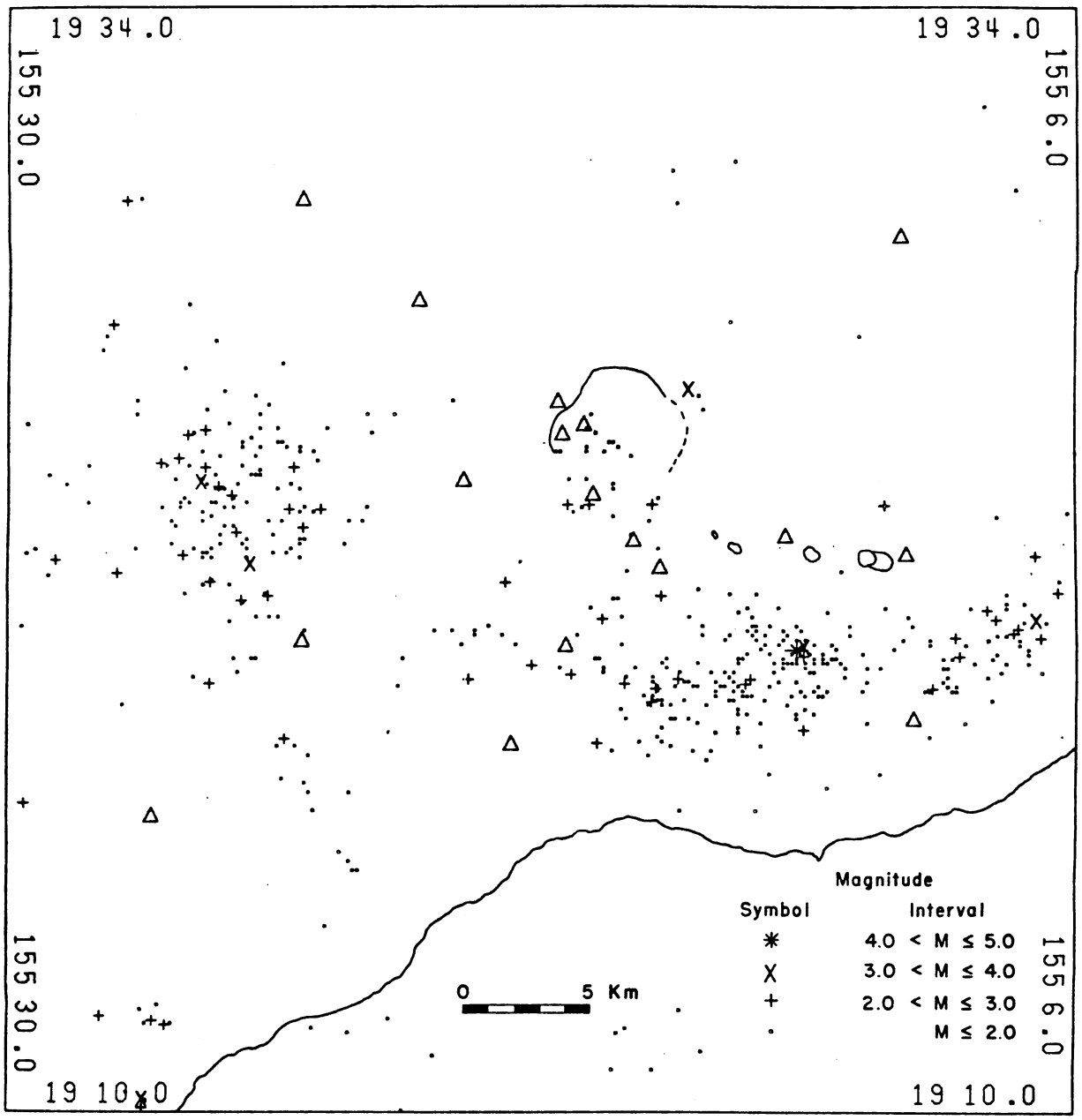

Figure 1.--Plot of epicenters in the Kilauea region. Triangles are seismometer locations. Kilauea Caldera and the major pit craters on the east rift are shown in outline. The Pacific Ocean lies in the lower right portion of the illustration.

Table 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.

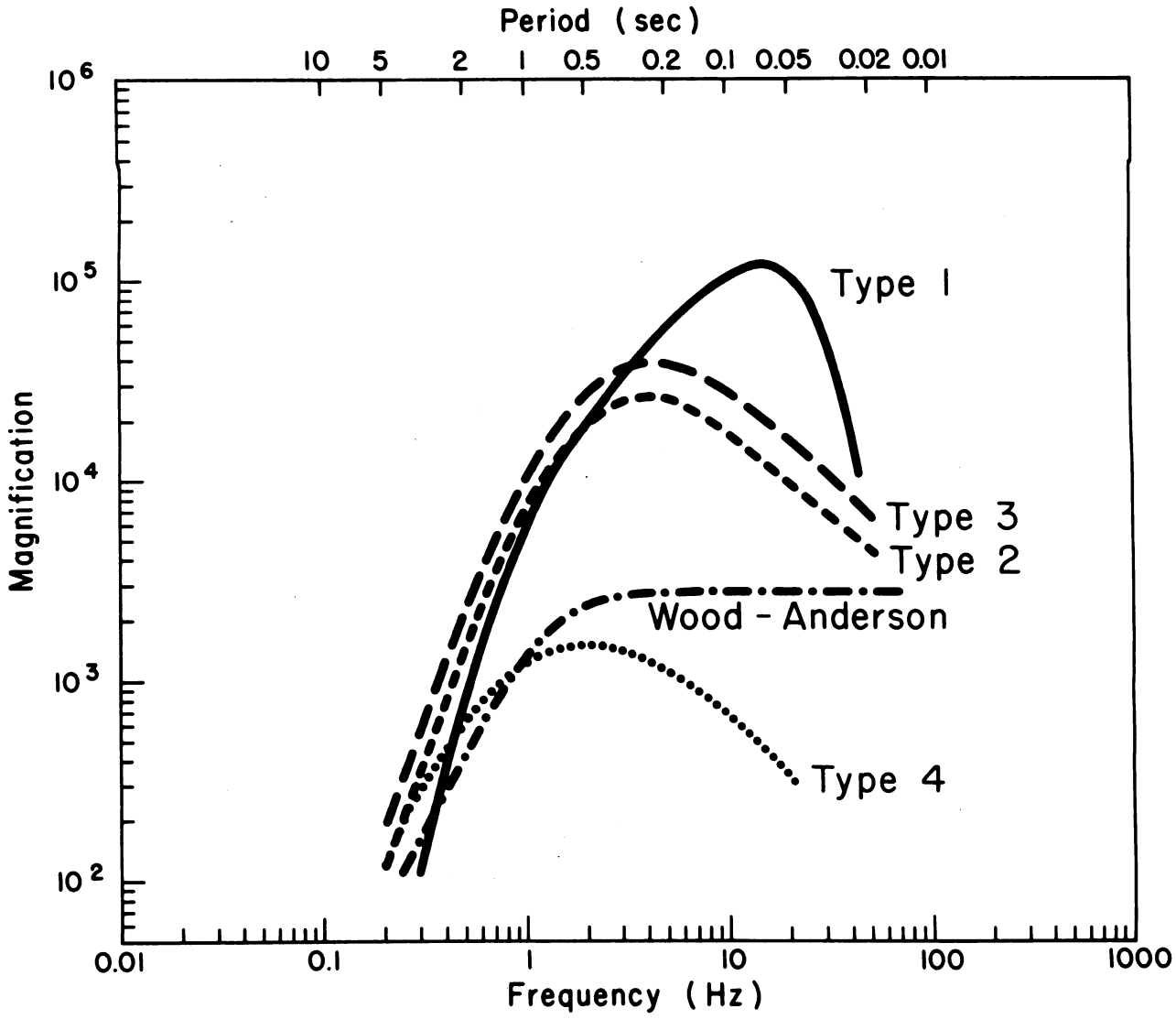

Figure 2.--System response curves for the Wood-Anderson torsion seismograph and for the four different types of seismometer-amplifier (or galvanometer) combinations in use by the Hawaiian Volcano Observatory.

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 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 attitutde 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.

Essential data on each tiltmeter station are listed in Table 7, Summary 65. The field tilt bases were not measured during this quarter.

Table 6.--Tilt Coordinates at Uwekahuna,

July, August, and September 1972

Date	N-S	E-W	Date	N-S	E-W
July 2	728	330	Sept. 3	727	325
9	728	332	10	727	322
16	728	329	17	726	326
23	728	332	24	726	325
30	728	331			
Aug. 6	728	329			
13	728	334			
20	728	330			
27	728	327			

Reference Cited

Hamilton, R. M., B. E. Smith, J. C. Hall, and J. H. Healy, 1969, Summary of seismic activity in the Pahute Mesa area, Nevada Test Site, December 1968 - June 30, 1969: U.S. Atomic Energy Comm. (USGS-474-58): Springfield, Va., Clearinghouse for Federal Sci. and Tech. Inf., 63 p.

UNITED STATES
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SUMMARY 68

October, November, and December 1972

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

Menlo Park, California

1977

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HAWAIIAN VOLCANO OBSERVATORY

SUMMARY 68

October, November, and December 1972

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By
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SUMMARY OF ERUPTIVE ACTIVITY

Kilauea's eruption on the upper east-rift zone at Mauna Ulu and Alae continued steadily throughout this quarter. The active lava lake, approximately 80 by 150 m, in Mauna Ulu's summit crater continued to behave in essentially the same manner as in previous months. Its level fluctuated from 28 to 50 m below the crater rim, but generally remained at 30 to 33 m. Lava normally entered the lake at the east end and circulated toward the west, although sometimes the circulation pattern reversed or varied in complex ways. Lava fountains, 2 to 15 m high, commonly played on the lake surface, generally along the margins, but sometimes in the central portions. Two to four fountains at fixed locations on the lake operated nearly continuously, but at times the fountains shifted in location and number, with as many as a dozen simultaneously active. At other times the lake surface became completely stagnant.

The vent on the floor of Mauna Ulu's elongate trench, about 170 m east of the lava lake, continued to feed lava into large conduits that supplied both the lava lake in Mauna Ulu and the subsidiary vent at the northern edge of Alae. The Alae vent in turn fed a complex lava lake at its summit. From time to time, segments of Mauna Ulu's trench floor collapsed, and, at other times, new lava welled out to cover parts of the floor. Several persistent subsidiary vents between the principal vent and the lava lake were the sources of these intermittent flows. On occasion the flows ended as strong, noisy blasts of gas were emitted from the vents.

At the beginning of October, the vent and the lava lake at Alae fed a well integrated lava-tube system that extended all the way to the ocean, a distance of 13 km. Tube-fed lava entered the sea along a 2-km front between Kaena Point and Kealakomo. About mid-October a decline was noted in the eruptive rate of the Alae vent, and the volume of flow in the lava-tube system correspondingly diminished. The flow of lava into the ocean completely stopped about October 20, but dwindling flows continued through the lava tubes until early November when chilled, viscous lava gradually piled up within the tubes and plugged most passages. The flow into the ocean from August 23 to October 20 added about 0.18 km^2 of new land to the island.

The decline of vent activity at Alae was temporary, but during the lull the passage conducting lava from the vent southward into the lava lake became blocked and the lake crusted over. When more vigorous visible activity resumed in late October, the Alae vent frequently emitted strong fountains, including, at times, both dome fountains and arching fountains. Flows cascaded down the slopes of the northern part of Alae's growing lava shield and across the crusted surface of the lava lake. Lava from the vent also traveled below the crust of the lake through passageways to emerge at three different satellitic vents

along the southwestern to southeastern margin of the lake. Each of the three produced a satellitic lava shield, which progressively added bulk and breadth to the main Alae lava shield. Most of the lava erupted between late October and December contributed directly to the growth of the lava shield at Alae. In mid-December, however, flows advanced south-southwestward, and a tube system developed that by the end of the month reached almost to Poliokeawe Pali. Correspondingly the rate of growth of the Alae lava shield diminished as lava was conducted to places far from the vent.

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 (1972)	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
Oct. 1		2m	Low to moderate tremor from the upper east rift throughout the month		14	269	21	14	6	1	2	
2		3m			17	245	21	22	3	1		
3		?			?	?	?	?	?	?		Electrical storm
4					19?	119?	2?	?	2?	?		
5					?	?	?	?	?	?		
6	42m			2?	19	218	12?	34	?			
7					16	170	10?	27	?	1		
8					13	287	15?	53	?			
9					48	202?	?	36?	?			
10				2	13	326	9?	52		2		
11					8	488	14	35	2?			
12					16	672	22	28		1		
13	21m	5m			24	258?	12?	40	4	1		
14				1	41	132?	18	22	15	2	1	
15	?	20m?		1?	90?	242?	19?	12?	5?	2		
16				1	49	499	6?	21	9			
17		8m		1	56	753	23	25	10	3		
18	5m	10m		1	78	795	14	30	6?	1		
19		13m			61	685	17	27	10			
20		10m			28	410	16	11	9	1		
21				1	19	246	12	32	10	2		
22		15m?		1	51	216	18	13	9			
23	3m	17m		1	68	167	18	15	4	1		
24	10m?	10m?			69	206	17	11	6			
25					62	193	13	13	4	2		
26	35m	3m		3	107	265	26	27	7			
27					109	319	17	62	2	2		
28					64	295	26	55	3	2		
29				1	24	229	23	27	8	1	1	
30				2	26	228	12	18	9	1		
31				1	44	234	17	16	13			

Date (1972)	Tremor (m = minutes h = hours)			Earthquakes								
				Kilauea Summit			SW rift and Kaoiki	Upper east rift	Koae	Lower east rift	Offshore Puu Pili	Remarks
	Deep	Intermediate	Shallow	30KM	Long Period	Shallow						
Nov 1		10m	Low to moderate tremor from the upper east rift throughout the month		82	180	13	14	8		3	
2					63	260	11	41	8	2		
3					53	217	21	35	8	2		
4	47m?				38	246	12	42	3	2		
5					32	198	6	19	8	1		
6					53	264	23	24	2	2		
7		8m?			117	208	17	18	13			
8		6m			35	237	15	36	11		1	
9		4m			42	248	13	28	6			
10				1	39	349	19	26	11		1	
11		4m			54	321	6	46	6			
12		3m			31	187	5	29	9	1		
13		9m			25	200	14	27	4	9		
14				1	3	205	37	20	7		1	
15					28	297	11	19	6		2	
16					20	244	15	16	3	3		
17	3m				12	352	27	49	10	1		
18		6m			19	332	22	39	4	4		
19				2	29	297	14	30	11	1		
20				1	31	187	10	28	18	1		
21				2	25	237	7	15	2	2		
22				1	37	167	11	33	5		1	
23		7m			30	182	15	28	8	1		
24		5m		2	72	191	20	20	11			
25				1	106	176	24	29	10			
26		8m			117	137	17	11	8			
27		9m			147	174	12	28	14			
28		5m			166	146	7	18	7	2		
29		5m			221	169	6	15	7	2		
30	13m	15m			309	193	23	7	8			

Date (1972)	Tremor (m = minutes h = hours)			Earthquakes								
				Kilauea Summit			SW rift and Kaoiki	Upper east rift	Koae	Lower east rift	Offshore Puu Pili	Remarks
	Deep	Intermediate	Shallow	30KM	Long Period	Shallow						
Dec 1		9m	Moderate tremor from the upper east rift throughout the month	1	176	212	25	24	2			
2	120m?	4m			270	235	25	40	2	3		
3		8m			126	206	13	22	8	2		
4		8m		1	150	124	9	16	2			
5					174	225	16	20	2			
6	10m?	3m			198	229	17	13	1			
7		3m			37	222	25	29	5		2	
8	4m				18	248	25	18	10	1		
9				2	17	261	38	22	18	1		
10		3m		2	14	350	21	22	9		1	
11				3	14	222	30	22	7	2		
12		2m		3	25	174	13	17	4			
13					19	174	23	36	4	1	3	
14				2	11	183	31	18	5	6		
15				1	19	176	20	21	2	2		
16	8m				17	286	24	22	2		1	
17					32	360	12	18	4			
18	40m			1	53	154	15	19	12			
19		6m			55	108	26	15	9			
20				1	64	164	23	19	11			
21					54	184	19	19	6			
22		4m		3	42	156	31	24	9			
23		23m			48	133	21	34	2			
24		10m		1	97	117	20	23	2	1		
25		21m			63	128	16	19	2	1		
26		8m			177	98	13	21	2			
27		13m			37	146?	15	21	2			
28		3m			33	120	22	19	4			
29					21	159	11	19	2	2		
30	30m	9m			14	146	21	23	1		1	
31		4m			33	150	25	28	4	2		

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. $\left[= \sum_i R_i^2 / NO \right]^{\frac{1}{2}}$ 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	≥ 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

Table 2. SUMMARY OF SEISMIC EVENTS

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
OCT	1	2	15 36.4	19-19.0	155-14.4?	8.1	1.9	23	145	5.7	0.07	0.5	0.4	0.12	B
	1	6	52 33.1	19-17.8	155-14.3	12.5	1.7	9	229	7.0	0.30	1.1	2.3	0.06	C
	1	6	53 28.4	19-18.1	155-18.0	29.0	0.9	19	145	1.1	0.16	0.9	1.6	0.10	B
	1	15	49 27.4	19-19.6	155-13.8	8.0*	0.5	15	162	6.4	0.09	0.7		0.11	C
	1	17	25 56.5	19-19.7	155-11.6	9.8	0.6	16	166	5.4	0.08	0.6	1.1	0.09	B
	1	18	9 4.6	19-26.1	155-50.7	4.4	0.9	11	249	26.5	0.32	2.0	0.8	0.08	C
	1	21	36 10.8	18-54.1	155- 8.6	19.3*	0.6	15	272	44.2	0.34	2.4		0.15	D
	2	2	34 52.6	19-20.0	155-11.4	7.8	0.4	16	162	4.6	0.12	1.0	0.5	0.14	C
	2	6	11 3.4	19-25.4	155-31.0	37.5	1.5	13	100	11.3	0.24	0.9	2.7	0.10	B
	2	6	16 30.3	19-30.7	155-52.9	26.6	1.5	23	195	20.0	0.23	1.1	2.7	0.10	C
	2	10	11 28.4	19-45.8	155-25.2	27.8	1.7	15	94	4.5	0.24	1.1	2.8	0.13	B
	2	11	24 53.0	19-20.4	155-12.2	8.0*	0.1	13	155	5.1	0.11	0.9		0.15	C
	2	15	4 16.1	19-45.9	155-23.3	26.4	1.0	9	163	14.6	0.19	1.3	2.3	0.08	C
	2	20	41 22.3	19-17.9	155-12.8?	7.7	2.5	24	162	8.3	0.12	0.7	0.6	0.15	C
	2	20	42 35.4	19-18.3	155-12.7	8.0*	0.3	8	232	8.6	0.28	1.8		0.14	D
	2	20	43 36.6	19-18.8	155-12.8	8.0*	0.4	7	222	8.0	0.25	1.9		0.13	C
	2	22	22 39.4	19-18.8	155-12.8	8.0*		10	220	8.0	0.25	1.6		0.17	C
	3	3	49 30.4	19-19.0	155-13.1	8.0*	0.4	8	214	7.8	0.17	1.2		0.11	C
	3	12	51 18.7	19-20.4	155-13.5	8.0*	0.0	10	150	6.8	0.10	0.9		0.15	C
	3	13	42 17.1	19- 9.0	155-38.8	3.3	0.2	7	189	11.3	0.19	1.5	1.6	0.09	C
	5	11	57 52.4	19-21.9	155-16.2	4.5	1.0	9	194	1.1	0.20	1.6	1.1	0.16	C
	5	15	47 51.9	20-11.9	155-51.6	32.7	2.4	12	312	11.5	1.80	9.5	11.1	0.13	D
	6	1	4 21.2	19-18.2	155-16.1	1.0	1.4	13	267	9.7	0.45	2.1	1.6	0.21	D
	6	3	41 38.6	19-10.8	155-15.2	40.0	2.1	15	194	22.7	0.28	1.5	2.7	0.14	C
	6	8	8 52.4	19-30.8	155-42.7	8.2		7	164	12.1	0.13	1.3	1.9	0.09	C
	6	22	53 43.1	19-26.1	155-24.8	8.0*	1.9	8	97	7.4	0.05	0.5		0.07	B
	8	5	21 28.1	20- 2.7	155-22.9	9.8	3.2	18	216	17.6	0.26	1.4	1.8	0.14	C
	8	8	55 27.6	20- 2.5	155-23.0	9.4	2.3	13	216	17.4	0.26	1.6	1.6	0.13	C
	8	9	5 8.4	19-17.8	155- 6.6?	0.0	1.9	14	216	9.7	7.37	1.9	13.5	0.18	C
	8	10	2 0.8	19-14.5	154-59.0?	34.2		12	251	23.5	0.53	2.9	3.6	0.11	D
	8	15	57 30.5	19-20.1	155-25.3?	1.9	2.1	14	118	7.2	2.11	1.4	7.7	0.31	C
	8	21	44 5.7	19-22.7	155-25.4?	0.0	2.4	14	118	12.2	5.08	0.8	9.6	0.19	C
	8	23	40 9.3	19-16.5	155- 8.4?	0.0	2.4	12	218	17.1	9.23	2.6	16.9	0.28	C
	9	0	54 54.7	19-18.3	155-15.0	5.4	1.7	11	209	7.7	0.34	1.9	1.4	0.17	C
	9	1	0 22.8	19-22.5	155-25.3	3.8	1.7	14	102	11.4	0.10	0.9	1.3	0.20	C
	9	8	14 30.3	19-21.8	155-24.5?	0.0	1.5	9	154	12.5	7.40	1.0	14.1	0.12	C
	9	11	16 1.1	19-20.2	155-11.4?	9.8*	0.6	6	260	4.4	0.12	1.5		0.11	D
	9	18	22 37.4	19-12.5	156- 0.3	21.2		7	330	15.5	0.93	8.4	8.2	0.17	D
	10	4	7 55.7	19-21.4	155-13.3	8.0*	1.0	9	215	4.9	0.18	1.6		0.10	C
	10	7	11 23.7	19-60.0	155-24.7	11.0	2.0	7	216	14.2	0.28	2.6	2.0	0.11	C
	10	10	55 5.9	19-21.7	155-14.4	29.0	3.0	16	141	5.4	0.19	1.2	2.0	0.16	B
	10	16	32 23.9	19-20.2	155-12.6	3.5	1.9	15	167	5.9	0.28	1.7	1.9	0.28	C
	10	18	49 28.1	19-21.5	155-12.8	6.0	1.6	12	175	5.3	0.23	1.9	0.9	0.21	C
	10	20	14 58.8	19-21.4	155-25.7	3.0	2.1	14	152	14.4	0.10	0.7	1.0	0.15	C
	10	20	21 27.8	19-20.5	155- 8.0?	9.2	2.0	9	262	4.4	1.15	7.3	4.3	0.16	D
	10	20	32 34.8	19-20.8	155-13.2?	8.0*	1.7	9	232	5.6	0.44	3.0		0.12	D
	11	4	25 18.5	19-37.8	155-12.4	8.0*		9	160	23.8	0.06	0.5		0.05	C
	11	20	37 59.2	19-25.8	155-27.4?	8.2	2.9	17	113	10.3	0.12	0.8	0.8	0.15	C
	11	21	32 9.9	19-23.6	155-26.8?	6.7	2.4	14	132	12.5	0.10	0.8	0.9	0.16	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
OCT 12	7	40	27.8	19-19.3	155-15.5	6.3	2.4	13	212	5.7	0.29	1.7	1.0	0.16	C
12	16	16	16.5	19-19.1	155-25.2	7.1	2.0	12	170	12.8	0.20	1.1	1.2	0.14	C
12	20	16	16.5	19-22.3	155-25.9?	6.9	1.8	15	151	11.2	0.12	1.0	2.6	0.15	C
12	21	14	16.5	19-18.4	155- 6.9?	0.0	2.3	17	229	8.6	5.22	1.7	9.6	0.19	D
13	7	34	47.7	19-19.9	155-13.9	6.5	2.6	17	197	5.2	0.15	1.0	0.6	0.18	C
13	14	27	53.6	20- 0.6	155-24.7	9.2	2.0	8	218	15.1	0.31	2.4	2.1	0.11	C
13	17	27	52.7	19-17.2	155- 7.0?	0.0	0.9	15	217	10.4	5.86	1.6	10.8	0.21	C
13	18	19	46.0	19-27.3	155-24.8?	6.9	1.4	15	91	5.4	0.09	0.8	1.9	0.19	B
13	22	44	12.3	19- 8.7	155-29.6	27.0	1.2	17	159	3.4	0.22	1.3	2.4	0.15	C
14	8	4	28.1	19- 8.2	155-24.1	34.3		7	261	7.1	0.87	3.4	6.9	0.05	D
14	8	18	29.1	19-20.0	155-14.7	9.8	0.7	16	164	4.7	0.10	1.0	1.0	0.16	C
14	19	57	0.5	19-19.3	155-12.3	8.0*	0.9	9	236	6.7	0.36	2.3		0.17	D
14	21	52	13.1	19-17.3	155-14.6	11.8	1.1	9	245	7.0	0.30	1.3	2.4	0.06	C
14	23	17	18.8	19-36.3	155-19.2	8.0*	0.5	7	261	13.9	0.53	3.0		0.12	D
15	0	26	28.4	19-20.9	155-23.6	7.6	2.3	14	162	1.4	0.13	1.1	0.6	0.16	C
16	1	14	47.3	19-33.7	156-13.9	1.9*	1.2	12	266	43.5	0.48	3.2		0.18	D
16	6	59	18.8	19-22.8	155-24.8?	7.5	0.6	9	158	5.4	0.13	1.0	0.9	0.14	C
16	8	37	28.1	19-19.9	155-14.6	6.5	1.5	20	167	5.0	0.14	1.0	0.7	0.22	C
16	10	42	51.8	19-30.8	155-42.3	7.3	1.1	11	161	11.5	0.19	1.1	1.1	0.14	C
16	10	58	20.6	19-25.4	155-28.9	6.8	0.6	11	110	12.8	0.07	0.8	0.9	0.08	B
16	16	4	15.0	19-54.9	155-29.6	39.4	1.5	13	270	15.2	0.78	3.5	5.7	0.09	D
16	17	39	57.2	19-22.0	155- 4.7?	0.0	1.1	15	247	9.1	1.12	3.5	20.2	0.27	D
16	19	34	33.8	19-18.9	155-15.7	10.9	0.4	10	149	1.5	0.14	0.6	1.2	0.05	B
16	23	43	29.2	19-22.2	155-13.5	3.1	9.9	8	190	3.6	0.08	0.4	0.9	0.04	B
17	2	2	57.1	19-24.0	155-23.9	0.5	0.2	14	124	7.1	0.66	0.8	1.2	0.18	B
17	5	9	17.7	19-17.3	155-14.9	9.6	0.7	11	236	6.7	0.29	1.6	2.5	0.11	C
17	5	9	37.4	19-16.1	155-14.3	8.0*	0.6	10	259	8.4	0.59	3.5		0.24	D
17	10	42	19.8	19-24.3	155-16.8?	7.9		7	76	1.1	0.29	0.8	11.9	0.21	C
17	13	5	13.1	19-24.8	155-24.1	8.0*		9	199	8.0	0.08	0.5		0.07	C
17	14	50	18.5	19-19.8	155-16.9	9.5	1.3	7	204	1.1	0.13	0.6	0.9	0.02	B
17	15	50	9.5	19-23.3	155-28.6	5.4	0.5	14	87	10.9	0.10	0.8	1.1	0.19	C
18	3	34	57.9	19-20.9	155-11.6?	0.6		9	192	3.8	0.92	1.4	1.7	0.16	C
18	7	1	16.1	19-20.3	155- 4.6?	0.0	1.4	14	209	9.7	5.90	1.6	11.0	0.20	C
18	7	22	3.9	19-20.4	155-12.5	6.0	1.5	20	182	3.8	0.14	1.0	0.7	0.21	C
18	11	17	58.1	19-24.2	155-23.8	4.0	1.3	12	192	7.2	0.19	1.1	1.9	0.16	C
18	13	52	37.4	19-26.8	155-45.4	6.6	1.8	11	223	17.2	0.15	1.1	0.7	0.07	C
18	14	15	35.5	19-19.0	155-15.7	11.2	1.7	7	218	3.6	0.12	0.6	1.0	0.03	B
18	14	41	31.0	19-27.8	155-14.4?	8.0*	1.4	7	323	4.8	0.60	5.5		0.44	D
18	15	1	34.6	19-19.7	155-15.7	30.2	2.4	20	161	3.1	0.18	1.1	1.6	0.12	C
18	16	14	8.4	19-25.9	155-39.5	8.0*		7	299	8.7	0.92	4.9		0.07	D
18	19	59	56.6	19-15.7	155-35.5	3.6	1.8	13	157	3.2	0.14	1.7	1.3	0.19	C
18	20	28	12.5	19-22.1	155- 8.8	31.3	0.8	14	135	10.9	0.30	1.3	2.7	0.10	B
18	22	9	47.4	19-19.6	155- 8.5?	7.3	0.3	14	186	5.1	0.12	1.0	0.5	0.15	C
18	22	36	8.2	19-24.0	155-15.7	1.7	0.8	7	127	2.5	0.08	0.4	0.4	0.09	B
18	22	56	39.1	19-32.1	155-58.6?	41.6	1.6	17	292	31.8	0.16	1.8	1.7	0.07	C
18	23	4	45.7	19-20.1	155- 8.6	8.2	0.1	7	164	4.1	0.08	0.8	1.5	0.06	B
18	23	35	22.7	19-24.8	155-16.9	0.6	0.1	8	87	0.2	0.09	0.3	0.2	0.09	A
19	4	14	59.9	19-30.1	155-33.0?	3.1	1.2	12	313	16.9	3.40	7.4	17.3	0.13	D
19	6	20	49.9	19-10.5	155-20.4	42.5	1.4	13	178	13.3	0.28	1.2	2.6	0.10	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
OCT 19	6	23	44.8	19-11.3	155-20.7	45.1	2.8	20	173	12.8	0.20	0.9	2.0	0.08	B
19	7	32	1.4	19-18.8	155-14.0	8.0*		12	209	6.4	0.17	1.2		0.15	C
19	7	40	49.4	19-22.1	155-27.4	3.0		12	128	8.0	0.17	1.2	3.3	0.22	C
19	10	43	44.2	19-18.9	155-13.3	5.5	1.2	17	152	7.5	0.14	1.0	0.9	0.22	C
20	0	42	3.2	20- 1.7	155-22.9	10.1	2.1	18	213	15.8	0.24	1.4	1.6	0.16	C
20	5	6	57.7	19-31.8	156- 9.6	14.5*	1.3	20	252	37.9	0.26	1.8		0.17	D
20	5	9	19.8	19-20.1	155- 8.4	8.0	0.1	11	166	4.5	0.13	1.2	2.4	0.11	C
20	6	54	27.0	19-20.3	155-11.8	9.7	0.3	11	157	4.2	0.11	0.9	1.5	0.10	B
20	8	32	41.5	19-22.5	155-25.1?	8.2	0.4	16	93	5.4	0.08	0.6	0.5	0.13	B
20	10	0	11.6	19-22.1	155-25.6	6.3	1.0	14	70	5.4	0.10	0.8	0.8	0.17	B
20	17	37	20.6	19-22.9	155-49.4	8.0	0.6	10	221	13.6	0.17	1.4	1.4	0.07	C
20	18	59	15.1	19-20.0	155- 8.6	5.5	2.5	25	149	4.3	0.15	1.0	0.8	0.26	C
20	22	15	26.4	19-27.1	155-27.5	2.6	1.1	17	71	8.9	0.08	0.5	0.9	0.13	B
21	2	13	25.3	19-21.9	155-12.7	4.8	1.0	13	133	1.1	0.12	0.6	1.4	0.14	B
21	5	6	45.2	19-18.6	155-14.9	9.6	0.3	11	206	5.2	0.28	1.4	2.5	0.11	C
21	5	42	9.4	19-13.5	155-35.3?	9.4	1.2	11	82	4.0	0.17	1.2	1.4	0.22	B
21	12	4	0.1	19-24.2	155-15.7	2.6	1.3	7	117	2.4	0.16	0.5	3.6	0.07	B
21	18	19	32.9	19-19.4	155-10.3	8.0*	0.8	11	174	5.0	0.09	0.7		0.10	C
21	21	21	0.4	19-20.1	155-15.9	8.3	0.9	13	160	2.6	0.14	1.1	1.6	0.14	C
21	21	43	8.8	19-18.5	155-12.5	8.0*	0.1	6	230	8.0	0.26	1.8		0.08	D
22	3	1	41.7	19-28.5	155-16.3?	8.0*	1.3	8	299	5.6	0.40	3.7		0.39	D
22	5	33	49.0	19- 7.8	155-12.0	13.7*	1.0	11	284	22.1	0.49	3.3		0.18	D
22	8	10	59.4	19-20.4	155- 8.4	4.0	1.3	19	161	4.1	0.15	1.1	1.1	0.22	C
22	19	20	34.6	19-19.3	155-11.4	8.0*	0.3	12	226	5.8	0.16	1.1		0.08	D
23	0	24	30.1	19-24.0	155-17.0	7.2	1.1	12	72	1.1	0.11	0.6	0.7	0.10	A
23	13	28	34.2	19-21.4	155- 6.9	8.0*	0.3	9	152	7.5	0.17	1.7		0.22	C
23	16	44	33.8	19-22.0	155-25.0	10.8	0.9	11	134	4.5	0.12	0.8	1.9	0.10	B
23	22	3	49.3	19-22.0	155-25.8	5.9	1.7	22	61	5.5	0.09	0.6	0.7	0.18	B
24	6	22	18.5	19-18.4	155-15.1	11.9	0.3	8	209	5.1	0.18	0.7	1.4	0.04	B
24	7	23	42.0	19- 9.8	155-23.5	33.1	0.8	16	202	7.6	0.37	1.6	3.2	0.11	C
24	11	53	37.0	19-13.2	155-27.5	4.2	0.7	10	124	6.9	0.10	1.0	1.4	0.16	B
24	13	0	37.4	19-22.5	155-24.4	6.9	1.9	22	51	4.6	0.07	0.6	0.6	0.19	B
24	21	52	10.5	19-20.6	155- 7.5	8.0*	0.5	12	156	4.9	0.14	1.3		0.19	C
25	3	51	54.4	19-19.7	155-12.7	8.0*	0.1	9	204	6.7	0.31	2.5		0.21	C
25	5	33	2.4	19-18.7	155-11.6	3.5	2.1	22	179	6.9	0.19	1.0	1.2	0.27	C
25	7	28	12.6	19-22.6	155-26.7	2.6	1.7	16	75	7.4	0.11	0.8	1.6	0.22	C
26	2	6	14.5	19-20.5	155-12.7?	4.3	0.9	14	186	5.8	0.24	1.4	1.5	0.26	C
26	5	0	54.7	19-21.6	155- 8.9	11.8	0.9	12	149	11.0	0.11	1.0	1.1	0.09	B
26	12	32	47.4	19-19.8	155-13.7	8.0*	-0.0	9	160	6.2	0.08	0.8		0.10	C
26	17	49	7.0	19- 7.8	155-33.0	5.6	2.3	12	145	9.6	0.13	1.0	1.1	0.14	B
26	20	15	56.9	19-23.9	155-17.4	6.8	1.0	17	46	1.2	0.08	0.7	0.6	0.19	B
26	23	8	49.3	19-19.5	155- 6.9	8.0*	0.6	14	178	6.9	0.17	1.4		0.18	C
27	3	16	24.4	19-24.0	155-28.7	7.0	1.1	19	57	11.8	0.08	0.6	0.6	0.18	B
27	3	18	58.4	19-20.6	155-20.1	1.7*		9	111	4.8	0.06	0.4		0.09	B
27	4	37	23.9	19-21.6	155- 7.1	7.8	3.0	20	177	5.0	0.14	1.0	0.6	0.15	C
28	1	2	24.1	19-21.0	155-11.5?	8.0	1.7	17	181	3.3	0.09	0.7	0.4	0.11	C
28	1	35	36.5	19-22.3	155-24.3?	7.4	2.0	20	51	4.3	0.07	0.6	0.7	0.18	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
OCT	28	2	25 3.0	19-16.5	155- 4.0	33.4		16	266	14.5	0.39	2.2	2.4	0.08	C
	28	6	5 57.4	19-22.2	155- 9.1?	7.1	1.8	18	179	1.4	0.12	1.1	1.4	0.15	C
	28	9	27 43.4	19-25.5	155-25.2?	7.4	1.7	19	82	8.6	0.09	0.7	0.7	0.15	B
	28	10	2 42.1	19-15.2	155-18.6	8.3		10	250	5.1	0.44	2.6	2.8	0.13	D
	28	18	29 24.7	19-28.5	155-20.4	8.5		15	97	1.8	0.06	0.7	0.8	0.10	A
	29	5	44 16.7	19-16.3	155-49.4	4.3	2.7	17	140	5.0	0.14	1.4	1.3	0.18	B
	29	15	35 24.4	19-22.6	155-23.4?	7.1	0.8	15	122	4.5	0.09	0.7	1.5	0.16	B
	29	18	55 56.3	19-20.7	155-12.4	6.1		9	184	5.2	0.56	1.4	4.3	0.13	C
	29	21	25 59.8	19-21.1	155- 8.1	9.2	0.3	8	229	3.6	0.22	1.6	1.6	0.09	C
	30	0	46 31.0	19-19.9	155-46.5	5.6	0.9	11	172	12.5	0.12	1.0	1.1	0.10	B
	30	2	46 48.1	19-25.6	155-25.3	8.0*		11	197	8.6	0.12	0.8		0.10	C
	30	3	52 0.9	19-24.6	155-14.5	25.3	1.1	15	90	0.4	0.21	1.1	2.0	0.11	B
	30	15	11 37.1	19-22.0	155-25.3	6.1	1.1	18	68	4.8	0.10	0.8	0.8	0.22	B
	31	1	0 31.9	19-26.1	155-27.3?	8.1	2.8	20	69	9.8	0.11	0.7	0.7	0.17	B
	31	1	46 2.9	19-17.6	155-23.7	8.0*	-0.1	11	120	4.8	0.14	1.4		0.26	B
	31	2	43 36.2	19-19.5	155-17.9	28.4	1.0	13	131	1.4	0.19	1.1	1.8	0.10	B
	31	4	35 42.7	19-19.0	155-13.8	8.0*	0.5	10	206	6.6	0.18	1.3		0.14	C
	31	5	26 59.0	19-19.4	155-15.9	9.9		8	225	2.9	0.28	1.4	1.8	0.06	C
	31	8	55 52.5	19- 9.8	155-38.4	5.1	2.5	17	107	9.6	0.17	1.2	1.1	0.23	C
	31	11	43 54.9	19-22.3	155-22.9	7.4	0.6	8	116	3.8	0.10	0.8	2.3	0.11	B
	31	15	52 40.3	19-23.7	155-26.1	8.0*	1.2	17	88	8.1	0.07	0.6		0.14	C
	31	17	33 58.6	19-49.2	155-32.1	27.3	1.6	20	133	9.2	0.14	0.9	2.1	0.10	B
	31	17	49 4.0	19-14.2	155-21.4	27.6	1.9	19	179	8.4	0.19	0.9	1.8	0.10	B
	31	22	2 35.8	19-18.6	155-13.4	5.9	1.2	18	199	7.2	0.17	1.0	0.8	0.18	C
	31	23	24 43.2	19-20.4	155- 8.7	5.9	1.4	17	195	3.6	0.22	1.5	1.0	0.20	C
NOV	1	4	39 6.7	19-22.1	155-29.5?	3.2	1.4	17	66	11.5	1.12	1.0	8.5	0.22	C
	1	4	54 2.6	19-24.3	155-17.6	8.3	1.2	8	142	1.6	0.14	0.7	1.3	0.06	B
	1	9	21 23.2	19-20.2	155-11.3	9.9		11	215	4.2	0.24	1.2	2.3	0.10	C
	1	11	6 30.1	19-24.2	155-17.3	13.8	1.1	9	80	2.3	0.06	0.5	0.8	0.05	A
	1	12	18 30.2	19-20.6	155-12.7	6.1	2.4	21	173	3.5	0.12	0.9	0.5	0.18	C
	1	12	42 25.9	19-22.5	155- 4.1	8.0*		7	257	10.2	0.27	1.9		0.04	D
	1	14	10 17.8	19-22.1	155-13.4	2.3		6	177	1.5	0.16	0.6	1.8	0.02	B
	1	14	25 32.0	19-10.7	155-32.6	7.0	2.5	19	106	8.6	0.13	1.0	0.8	0.19	C
	1	17	0 12.7	19-20.2	155-13.1	7.5	0.4	11	204	4.2	0.15	1.0	0.6	0.11	C
	1	21	4 30.9	18-54.2	155-17.2	9.7	2.8	21	262	33.9	0.67	3.3	3.2	0.16	D
	2	0	46 44.8	18-54.5	155-16.6	8.4	1.1	12	280	34.0	0.35	2.1	2.2	0.11	C
	2	4	4 5.0	19-31.9	155-45.0?	8.0	0.9	6	300	34.2	0.30	1.4	2.0	0.05	C
	2	7	2 34.8	19-20.5	155-13.8	7.7	0.3	10	212	4.2	0.20	1.2	0.7	0.11	C
	2	16	18 19.3	19-20.0	155- 7.3?	0.0	2.5	20	241	5.9	7.55	2.2	13.7	0.23	D
	2	17	25 32.9	19-39.3	156-25.5	8.0*	3.3	20	279	72.3	0.60	3.8		0.15	D
	2	20	24 8.1	19-20.9	155- 9.7	7.7	2.1	17	188	2.2	0.08	0.7	0.8	0.09	C
	2	21	13 32.5	19-20.8	155-11.6?	5.6	1.7	12	194	3.9	0.32	1.9	1.8	0.26	C
	2	22	30 41.0	19-22.4	155-23.6?	2.7	1.6	15	111	4.1	0.12	0.9	2.1	0.23	B
	3	6	34 34.9	19-21.0	155-12.9	6.3	1.9	18	172	2.8	0.15	1.2	0.7	0.24	C
	3	10	19 37.5	19-19.8	155-11.9	8.0*		11	213	5.5	0.14	1.0		0.10	C
	3	13	16 28.0	19-10.8	155-27.9	29.6		15	126	2.5	0.27	1.5	2.8	0.14	B
	3	17	34 37.8	19-18.0	155-13.0	8.0*		9	233	8.7	0.28	1.9		0.14	D
	3	17	35 51.7	19-23.6	155-26.3	8.1	2.1	17	72	8.2	0.10	0.5	0.7	0.11	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
NOV 3	17	47	51.0	19-18.2	155-13.0	8.0*	1.7	10	230	8.4	0.24	1.6		0.13	D
3	23	47	33.0	19-20.8	155-19.2	3.7	1.6	12	92	3.4	0.04	0.3	0.6	0.06	A
4	3	56	14.9	19-10.5	155-27.5	31.5		21	139	2.0	0.23	1.3	2.4	0.14	B
4	4	24	45.8	19-23.3	155-26.7	8.0*		8	253	8.3	0.31	1.9		0.09	D
4	11	52	1.8	19-41.0	156- 8.1	10.4	3.9	26	206	60.2	0.33	1.6	4.9	0.17	C
4	14	36	18.5	19-19.7	155-11.9	4.1	1.7	15	216	5.3	0.28	1.5	1.5	0.25	C
4	16	58	11.4	19-19.5	155-11.9	6.1	1.6	13	220	5.6	0.31	1.9	1.1	0.22	C
4	20	0	37.3	19-21.1	155- 4.8?	0.0	2.0	14	203	9.1	5.96	1.7	11.2	0.19	C
4	22	23	29.1	19-22.0	155-27.3	7.7	1.9	14	79	7.8	0.09	0.7	0.7	0.11	B
5	4	12	3.4	18-53.6	155-26.3?	21.9*		20	262	25.8	0.34	2.6		0.15	D
5	5	45	21.0	19-17.6	155- 6.0	30.5*		13	286	19.4	0.35	3.0		0.09	D
5	11	15	19.8	19-20.5	155-12.3	9.8	0.1	12	191	3.6	0.29	1.3	2.4	0.10	C
6	6	44	22.8	19-20.3	155-12.7	5.9	1.4	21	168	4.0	0.13	1.0	0.7	0.22	C
6	9	56	54.8	19-21.2	155-30.0?	7.2	2.0	13	158	10.6	0.19	1.6	1.4	0.17	C
6	11	15	2.1	19-24.9	155-28.8	4.9		13	116	13.0	0.11	0.8	1.3	0.14	C
6	14	54	13.1	19-20.4	155-14.1	6.5		14	172	4.8	0.18	1.1	1.0	0.18	C
6	19	32	3.3	19-20.6	155-12.7	5.8	1.9	21	166	3.4	0.14	0.9	0.7	0.21	C
6	21	1	47.9	19-24.5	155-26.7?	0.0	1.8	12	211	9.9	5.52	1.2	29.6	0.18	C
7	1	53	34.1	19-17.1	155-13.0	8.0*		10	249	9.6	0.32	1.9		0.11	D
7	7	0	1.9	19-20.8	155-12.4	8.0*		8	181	5.1	0.07	0.6		0.05	C
7	9	44	0.2	19-24.1	155-29.1	4.5	1.4	17	58	12.5	0.10	0.8	1.1	0.22	C
7	11	35	52.6	19-26.4	155-24.7	6.0	1.6	19	68	6.8	0.07	0.6	0.7	0.18	B
7	12	9	2.6	19-19.7	155-11.3	8.1		8	240	5.7	0.12	0.8	1.0	0.03	C
7	13	53	5.4	19-20.8	155-28.2	4.0	2.1	18	128	8.7	0.11	0.8	1.0	0.20	C
7	14	6	0.3	19-20.1	155-17.0	6.7	0.3	7	190	4.7	0.22	1.0	1.2	0.07	C
7	20	19	33.6	18-51.5	155-16.3	11.7	0.8	12	296	48.9	0.42	7.0	15.3	0.11	D
7	22	38	33.8	19-24.1	155-17.7	3.9		6	125	1.8	0.19	0.7	1.7	0.05	B
8	1	3	2.6	19-24.5	155-29.2	7.0	2.1	22	58	13.0	0.07	0.5	0.5	0.15	B
8	1	4	10.7	19-24.7	155-29.6	4.2	1.2	15	149	13.9	0.14	0.9	1.2	0.17	C
8	1	24	34.1	19-24.3	155-29.8	4.1	1.6	10	61	13.7	0.11	0.8	1.3	0.19	C
8	3	32	37.6	19-23.3	155-25.9?	0.1	1.8	17	124	7.3	8.36	1.0	15.9	0.25	C
8	7	37	51.4	19-24.0	155- 4.0?	20.8*	1.6	8	334	10.9	1.25	12.1		0.31	D
8	11	4	33.5	19-22.4	155-23.4	4.6	1.2	9	181	4.0	0.18	1.1	1.1	0.14	C
8	18	41	38.3	19-31.4	155-50.2	5.6	2.3	12	225	25.3	0.87	1.4	6.0	0.12	C
8	20	46	31.5	19-31.6	155-42.7	8.8	1.9	10	241	12.5	0.17	1.0	0.8	0.06	C
8	22	17	11.6	19-53.9	155-18.9	8.0*	2.3	8	324	45.1	1.06	7.8		0.28	D
9	1	30	49.5	19-59.5	155-38.0?	22.3	1.9	11	155	21.5	0.91	3.1	9.2	0.33	D
9	1	41	6.6	19-19.6	155-12.2	8.0*	0.9	11	167	6.1	0.09	0.7		0.11	C
9	2	7	44.2	19-13.9	155-26.6?	0.0	1.4	15	133	8.4	5.12	0.9	9.8	0.17	C
9	2	46	45.6	19-23.8	155-26.4	5.8	1.4	16	119	8.5	0.11	0.7	1.2	0.18	B
9	6	44	57.4	19-18.6	155- 8.6	8.0*	1.4	11	189	6.7	0.21	1.8		0.20	C
9	8	57	6.6	19-17.2	155-12.5?	7.9	1.6	21	169	9.7	0.13	0.8	0.5	0.15	C
9	14	42	53.7	19-31.2	155-58.3	8.2	2.7	11	263	29.9	0.43	2.7	2.9	0.19	D
9	19	59	32.9	19-20.6	155-13.1	8.0*		8	180	5.9	0.09	0.7		0.07	C
10	0	15	10.1	19-19.4	155-13.8	8.0*	1.2	14	199	6.5	0.11	0.8		0.10	C
10	0	31	7.5	19-18.8	155-13.2	8.0*	1.6	9	216	7.7	0.17	1.1		0.10	C
10	0	33	20.1	19-19.4	155-13.6	8.0*	1.4	8	200	6.7	0.13	1.0		0.10	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
NOV 10	3	40	23.4	19-19.6	155-14.3	6.2	1.4	19	190	5.6	0.14	0.9	0.6	0.19	C
10	4	9	37.7	19-20.5	155-13.3	8.0*		9	179	5.8	0.09	0.7		0.09	C
10	7	25	22.2	19-21.6	155-27.0?	8.1	1.3	17	102	6.9	0.12	0.8	0.8	0.16	B
10	8	22	26.3	19-24.0	155-16.7	13.1	2.0	16	50	1.2	0.03	0.3	0.2	0.05	A
10	12	0	52.7	19-19.2	155- 8.5	4.1	1.8	12	181	5.8	0.18	1.3	1.3	0.19	C
10	15	0	58.7	19-24.4	155-23.6	7.8	1.8	19	70	7.0	0.06	0.5	0.4	0.12	B
10	17	13	46.9	19-21.3	155-24.5	7.2	2.1	23	60	3.0	0.07	0.6	0.5	0.19	B
10	19	54	33.3	19-23.2	155-26.6?	8.4	1.3	16	73	8.1	0.12	0.7	0.9	0.13	B
11	1	32	55.3	19-18.6	155-13.1	8.0*	1.3	11	221	8.0	0.22	1.4		0.12	C
11	6	7	30.8	19-24.1	155-23.1	6.3	0.9	14	167	6.0	0.12	0.8	0.9	0.14	C
11	7	23	9.5	19-19.9	155-13.1?	8.7	1.3	10	239	4.7	0.41	2.1	2.9	0.11	C
11	12	34	37.4	19-24.1	155-15.7?	1.4	1.0	9	123	2.5	0.10	0.6	0.4	0.11	B
11	12	58	58.9	19-23.7	155-36.5?	8.5	1.3	13	122	10.3	0.11	0.9	1.1	0.14	B
11	14	3	39.4	19-18.4	155-13.2	8.0*	1.5	11	224	8.0	0.19	1.3		0.12	C
11	22	34	49.4	19-22.8	155-24.1?	7.5	1.4	14	114	4.9	0.10	1.0	2.1	0.18	B
12	0	23	44.6	19-19.0	155-16.7	6.8	1.1	13	154	2.4	0.11	0.8	0.6	0.13	C
12	4	27	5.9	19-30.1	155-27.4	6.4	2.1	20	96	7.3	0.09	0.6	0.6	0.15	C
12	6	39	15.9	19-19.2	155-15.6	10.1	1.7	8	234	3.5	0.10	0.5	0.6	0.02	C
12	18	33	38.0	19-22.7	155-22.8	6.9	1.3	12	159	4.6	0.10	0.7	0.8	0.12	C
12	19	0	20.6	19-21.0	155- 8.5	4.3	1.8	15	150	3.0	0.13	1.0	0.9	0.18	C
13	6	15	23.6	19-21.1	155-25.2	7.6	2.2	19	96	3.8	0.08	0.7	0.6	0.16	B
13	17	8	25.6	19-19.5	155-25.9	2.5	2.0	15	110	4.7	0.13	0.9	1.4	0.19	B
14	0	53	57.5	19-21.8	155-23.2	8.1		8	178	2.9	0.15	1.1	0.8	0.10	C
14	8	57	9.1	19-19.1	155-11.5	3.2		17	175	6.4	0.21	1.3	1.6	0.29	C
14	11	2	12.9	19-20.3	155- 8.5	4.6		14	162	8.3	0.16	1.2	1.6	0.20	C
14	16	47	16.6	19-19.2	155-18.5	11.0		17	101	2.3	0.07	0.7	0.6	0.13	B
14	17	18	30.7	19-22.3	155-23.1	8.5	1.8	8	174	3.9	0.23	1.3	2.6	0.10	C
14	18	3	13.4	19-19.4	155-16.6	9.9	2.0	7	220	1.9	0.22	1.0	1.5	0.04	B
15	1	48	46.1	19-20.3	155-16.2	9.6	1.7	8	202	2.1	0.14	0.7	1.1	0.04	B
15	6	59	28.5	19-24.2	155-23.9	8.0*	2.0	10	195	7.5	0.10	0.7		0.08	C
15	15	27	27.2	19-22.1	155-12.9	3.1		8	155	0.9	0.13	0.7	1.4	0.07	B
15	15	48	21.6	19-18.7	155-20.0	6.1	1.3	11	173	2.7	0.10	0.7	0.5	0.09	B
15	17	8	9.8	19-19.4	155-10.9	4.7	1.5	17	173	5.3	0.15	1.0	0.9	0.21	C
15	17	23	15.3	19- 9.5	155-36.4?	0.0	2.8	16	107	15.1	6.70	1.2	12.6	0.25	C
15	18	42	58.9	19-20.4	155- 7.4?	8.0*	1.5	15	161	5.3	0.17	1.7		0.27	C
16	1	23	40.7	19-20.3	155-11.0	9.6	1.6	10	220	3.8	0.29	1.5	2.7	0.09	C
16	10	29	40.9	19-24.4	155-23.7	8.0*	1.2	12	118	7.8	0.06	0.5		0.08	B
17	5	9	41.3	19-19.9	155- 8.3	4.0	1.8	19	169	4.8	0.17	1.2	1.1	0.25	C
17	6	25	10.4	18-52.8	155- 9.0	48.7	2.1	15	298	49.4	0.26	2.7	2.9	0.10	D
17	9	28	34.0	19-20.8	155- 7.3	7.7	3.1	21	137	4.9	0.09	0.8	0.6	0.15	B
17	9	29	33.9	19-20.2	155- 7.9	2.6	3.7	19	142	8.8	0.18	1.1	1.2	0.27	C
17	9	31	40.9	19-20.3	155- 7.6	8.0*	1.8	12	163	5.1	0.10	0.9		0.13	C
17	11	54	12.0	19-21.1	155-25.4	6.7	1.7	11	125	4.1	0.14	1.2	1.6	0.19	B
17	12	56	0.6	19-22.6	155-25.1?	6.4	2.4	20	52	5.4	0.09	0.9	1.9	0.20	B
17	14	29	53.5	19-19.9	155-11.8?	6.4		16	163	4.9	0.14	1.3	2.0	0.20	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
NOV	17	16	13 49.4	19-24.1	155-17.4	12.8		13	66	1.4	0.05	0.5	0.4	0.07	A
	17	18	21 13.5	19-23.9	155-17.3	12.7	1.6	18	45	1.2	0.04	0.5	0.4	0.08	A
	17	18	54 2.6	19-17.0	155- 4.0	31.2		15	265	13.8	0.37	1.9	2.9	0.08	C
	17	19	51 19.9	19-23.9	155-17.4	12.9		16	45	1.4	0.05	0.6	0.4	0.09	A
	17	20	18 50.1	19-23.9	155-17.9	13.6		13	108	1.9	0.06	0.6	0.7	0.06	A
	17	20	31 27.9	19-24.7	155-26.6	7.6	2.1	17	94	10.1	0.11	0.8	0.6	0.14	B
	17	20	40 9.3	19-24.2	155-17.6	14.2		12	104	1.7	0.08	0.6	0.8	0.06	A
	17	21	8 10.6	19-21.9	155-17.5	24.4		9	87	3.0	0.20	0.9	1.9	0.05	A
	17	23	16 26.2	19-20.0	155-16.2	6.1		12	180	2.1	0.16	1.1	0.7	0.13	C
	17	23	29 59.4	19-23.2	155-17.5	12.9	2.2	22	60	1.0	0.05	0.6	0.4	0.13	B
	17	23	34 48.8	19-23.5	155-17.4	12.5	2.0	19	53	0.8	0.05	0.7	0.5	0.11	B
	18	0	23 34.5	19-47.5	155-39.7	23.6	2.7	23	104	34.2	0.18	1.0	3.6	0.12	B
	18	0	56 41.7	19-20.6	155-19.5	3.2	1.4	11	102	3.8	0.13	0.4	2.8	0.07	B
	18	1	25 58.7	19-23.9	155-17.3	12.9	1.5	16	45	1.2	0.04	0.5	0.4	0.08	A
	18	3	24 4.7	19-23.4	155-17.2	12.6	2.2	21	55	0.5	0.05	0.6	0.5	0.11	B
	18	5	0 29.5	19-37.0	156-10.0	41.9		17	255	49.7	0.69	3.2	6.2	0.11	D
	18	5	53 34.9	19-11.2	155-36.1?	7.8	3.3	24	95	7.1	0.14	0.9	0.9	0.19	B
	18	6	24 57.6	19-24.0	155-17.8	13.3		14	58	1.9	0.05	0.5	0.6	0.06	A
	18	8	4 53.3	19-31.2	155-44.3	4.9		10	174	21.4	0.18	1.2	2.4	0.06	C
	18	9	21 5.2	19-24.0	155-17.4	12.9		13	45	1.4	0.04	0.5	0.4	0.07	A
	18	10	19 49.8	19-22.5	155-25.1	8.0	1.8	22	52	5.3	0.14	0.7	1.0	0.19	B
	18	10	48 55.9	19-23.8	155-17.3	12.7	1.8	17	49	1.0	0.04	0.5	0.4	0.09	A
	18	10	58 47.4	19-19.1	155-11.8	3.7	2.7	24	153	6.4	0.16	0.9	1.1	0.27	C
	18	11	8 11.8	19-20.1	155-11.9	7.2		12	206	4.5	0.24	1.7	0.9	0.18	C
	18	11	29 40.5	19-28.1	155-51.8?	1.2	2.7	13	227	22.4	1.36	2.4	9.5	0.18	D
	18	13	45 35.6	19- 5.9	154-48.4?	24.5*		10	324	36.2	1.94	15.0		0.36	D
	18	14	5 23.1	19-23.7	155-16.9	13.2	1.5	15	65	0.6	0.04	0.6	0.4	0.09	B
	18	14	15 46.8	19-20.6	155-13.7	5.6	1.5	17	147	5.1	0.12	0.9	0.8	0.22	C
	19	1	9 48.7	19-20.4	155-24.8?	6.8		16	94	2.7	0.09	1.0	1.5	0.19	B
	19	2	10 51.5	19-29.7	156-27.3	8.0*		15	281	66.3	0.72	4.7		0.15	D
	19	2	30 34.3	19-15.4	155-21.3	29.1		13	279	6.6	0.55	2.7	4.4	0.11	D
	19	3	29 18.1	19-20.3	155-12.4	5.1		14	146	12.8	0.24	1.4	1.4	0.24	C
	19	6	51 22.9	19-27.1	155-29.3	4.1	1.9	16	78	11.6	0.12	0.9	1.5	0.21	C
	19	7	47 37.4	19-10.6	155-41.8	3.1	3.0	23	127	11.3	0.15	1.1	1.1	0.22	C
	19	11	7 54.6	19-21.4	155-17.7	22.0	1.5	11	81	2.5	0.21	1.3	2.1	0.12	B
	19	11	36 41.5	19-20.9	155-13.5	7.2	1.3	15	168	5.0	0.14	1.0	0.6	0.17	C
	19	12	9 17.1	19-18.5	155-13.0	8.1	1.8	17	177	8.3	0.12	0.8	0.6	0.13	C
	19	12	24 57.8	19-18.1	155-12.9	8.0*	2.0	9	233	8.8	0.30	1.9		0.14	D
	19	15	55 30.0	19-19.4	155-13.3	8.0*	2.0	7	205	7.2	0.19	1.4		0.12	C
	19	16	59 57.4	19-18.5	155-13.0	8.0*	1.3	10	224	8.2	0.32	2.2		0.20	C
	19	17	39 53.8	19-15.1	155- 2.2	33.1	3.6	23	252	22.8	0.26	1.6	1.7	0.10	C
	19	18	5 2.1	19-53.1	155-40.4?	9.1	3.0	25	140	25.2	0.32	0.9	2.4	0.14	C
	19	18	10 11.6	19-19.3	155-16.1	9.7	1.4	9	224	2.8	0.22	1.1	1.5	0.05	C
	19	19	44 24.8	19-22.3	155-13.4	3.6		8	145	1.2	0.10	0.4	1.0	0.06	B
	19	20	27 38.0	19-23.6	155-17.6	16.4		11	62	1.3	0.12	0.8	1.4	0.07	A

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
NOV 19	23	9	48.3	19-22.8	155-22.1	5.9		7	148	4.5	0.24	0.6	2.1	0.07	B
19	23	53	43.3	19-22.0	155-12.9	3.8		8	159	1.0	0.18	0.8	1.8	0.09	C
20	2	4	49.2	19-19.4	155- 8.9	8.0*	1.5	12	177	5.3	0.14	1.1		0.14	C
20	3	23	33.6	19-24.4	155-17.4	7.5		9	72	1.2	0.13	0.9	0.8	0.10	A
20	3	51	0.4	19-20.7	155- 9.7	8.0	0.6	8	155	2.5	0.12	1.3	0.8	0.10	C
20	8	33	24.4	19-15.1	155- 1.7	35.1	2.5	21	216	9.1	0.27	1.5	2.1	0.11	C
20	9	4	51.9	19-25.7	155-22.8	7.6	3.1	20	68	5.1	0.07	0.7	0.5	0.16	B
20	16	8	37.8	19-23.1	155-26.0	1.6		14	138	7.2	0.59	0.8	2.2	0.21	C
21	11	43	8.3	19-24.7	155-24.8	8.0*	1.6	9	213	8.7	0.12	0.8		0.07	C
21	19	1	30.1	19-20.7	155-16.4	27.2	1.6	21	123	2.1	0.14	0.8	1.3	0.10	B
22	6	52	49.1	19-20.1	155-14.1	31.6	1.5	22	138	5.3	0.14	0.9	1.3	0.12	B
22	13	5	25.6	19-21.6	155-25.6	3.9	1.2	17	69	4.8	0.10	0.8	1.2	0.23	B
22	13	57	44.8	19-19.9	155-11.8	7.8	0.8	13	214	5.0	0.13	0.9	0.4	0.09	C
22	16	43	15.4	19-20.1	155-13.8	8.0*		14	170	4.8	0.12	0.9		0.15	C
22	17	33	46.0	19-20.5	155-13.4	5.9	1.2	19	150	3.8	0.11	0.8	0.7	0.21	C
22	21	57	19.9	19-21.7	155- 5.7?	0.0	2.0	19	129	5.9	2.35	0.9	4.6	0.16	C
23	0	16	42.8	19-20.1	155-11.7	5.8	1.6	22	144	4.6	0.11	0.8	0.6	0.21	C
23	4	6	36.4	19-19.3	155-13.2	8.0*	0.9	13	168	7.3	0.07	0.6		0.10	C
23	4	8	14.9	19-18.0	155-14.0	8.0*	0.3	11	225	7.1	0.23	1.4		0.13	C
23	6	15	17.7	19-20.7	155-11.7	5.5	1.2	21	153	3.7	0.12	1.0	0.8	0.25	C
23	8	27	59.3	19-21.2	155- 2.6?	9.5		16	196	6.2	0.25	2.0	1.3	0.19	C
23	17	14	21.0	19-19.8	155-12.6	3.7	1.5	20	163	4.9	0.16	1.0	1.2	0.26	C
23	18	36	45.2	19-19.0	155-20.5	5.4	1.0	11	173	3.8	0.12	0.8	0.6	0.11	C
23	21	44	9.1	19-18.5	155-13.6	8.0*	0.5	10	219	7.3	0.23	1.6		0.16	C
23	23	33	14.2	19-20.4	155-24.2	8.2	1.1	11	98	1.7	0.08	0.9	0.8	0.14	B
24	5	8	23.2	19-19.5	155-12.9	8.0*	0.3	13	205	7.2	0.23	1.6		0.19	C
24	13	17	17.3	19-20.1	155-10.4	8.9		11	223	3.8	0.13	0.9	1.2	0.07	B
24	14	48	55.6	19-28.5	155-52.4?	8.7	0.9	10	232	23.1	0.26	1.9	1.9	0.12	C
24	15	1	54.9	19-17.8	155-12.7	8.0*	0.3	11	238	9.2	0.26	1.6		0.12	D
24	17	29	55.8	19-14.9	155- 0.9	35.8	1.2	19	220	9.8	0.28	1.6	2.3	0.11	C
25	0	27	47.7	19-20.3	155-12.7	9.0	0.8	12	191	4.0	0.25	1.2	2.4	0.11	C
25	0	51	35.3	19-23.3	155-17.3	12.6	1.0	20	56	0.7	0.05	0.7	0.5	0.14	B
25	2	9	5.7	19-23.6	155-16.3	12.8	1.2	21	55	1.1	0.05	0.7	0.5	0.13	B
25	4	18	8.3	19-23.1	155-17.1	15.2	2.1	26	64	0.6	0.07	0.6	0.9	0.13	B
25	4	32	24.4	19-22.9	155-17.0	14.0	0.6	15	71	0.9	0.08	0.8	1.1	0.12	B
25	9	25	12.4	19-19.7	155-12.8	8.0*	0.4	12	202	5.1	0.14	1.0		0.13	C
25	11	25	14.2	19-22.8	155-23.0	7.1	2.2	20	60	4.8	0.07	0.7	0.7	0.18	B
25	17	0	8.6	19-22.6	155-22.4	7.9	1.1	16	108	4.7	0.05	0.5	1.1	0.09	B
25	17	15	42.2	19-19.2	155-15.6	8.7	0.7	14	185	3.6	0.15	0.9	1.5	0.10	C
26	1	58	59.4	19-24.1	155-17.2	13.0	0.6	12	67	1.4	0.05	0.5	0.4	0.05	A
26	5	14	4.1	19-19.8	155-12.6	4.3	1.5	23	145	4.8	0.12	0.8	1.0	0.25	C
26	7	27	31.1	19-19.4	155-11.6	8.0*	0.2	13	171	5.8	0.08	0.6		0.09	C
26	7	29	24.4	19-19.6	155-11.9	8.0*	0.2	10	218	5.8	0.20	1.3		0.11	C
26	9	24	50.5	19-17.7	155-21.7	8.0*	0.7	7	243	5.4	0.61	3.8		0.18	D
26	13	4	41.4	19-19.2	155-11.7	8.7	0.6	12	241	6.2	0.23	1.4	2.0	0.10	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
NOV 26	17	16	16.7	19-26.0	155-22.4	7.7	1.2	18	63	4.2	0.05	0.5	0.3	0.12	B
26	18	57	59.9	19-17.3	155-23.3	3.7	0.6	10	172	5.3	0.12	0.8	1.3	0.11	C
26	19	32	8.1	19-59.6	155-25.4	11.3	1.7	11	212	14.3	0.16	1.4	1.1	0.11	C
26	22	25	5.5	19-23.9	155-17.2	12.5	0.4	15	51	1.8	0.04	0.5	0.4	0.08	A
27	0	51	7.7	19-24.8	155-25.5?	0.0	1.5	14	139	9.2	8.11	0.9	15.5	0.19	C
27	1	10	55.8	19-21.7	155-29.9?	7.5	0.9	15	75	11.2	0.09	0.7	0.7	0.14	B
27	5	19	46.7	19-22.2	155- 3.9?	4.4	1.7	16	157	4.5	0.14	0.9	0.8	0.17	C
27	14	35	8.3	19-20.2	155-12.6	6.1	1.5	18	157	4.2	0.12	0.9	0.7	0.22	C
28	2	5	39.4	19-20.1	155- 8.2	4.8	1.8	19	147	4.6	0.12	0.9	0.7	0.19	B
28	7	25	39.8	19-19.3	155- 9.0	8.0*	0.8	5	178	5.4	0.18	1.7		0.10	C
28	8	2	6.6	19-19.4	155-14.0	8.0*	0.6	14	196	5.6	0.17	1.2		0.17	C
28	9	52	49.6	19-19.7	155-11.9	9.1	0.2	15	166	5.2	0.07	0.5	1.0	0.08	B
28	19	47	40.6	19-19.9	155-11.8	7.7	0.5	10	212	4.9	0.14	0.9	0.5	0.07	B
28	21	29	25.2	19-19.3	155- 8.4	8.0*	0.8	10	178	5.6	0.17	1.4		0.15	C
29	0	51	40.3	19-18.9	155-15.5	9.6	0.7	13	191	3.9	0.13	0.7	1.2	0.08	B
29	1	59	35.0	19-19.8	155-17.0	9.5	0.1	9	193	0.9	0.43	2.1	3.2	0.10	C
29	2	49	42.2	19-21.3	155-25.1?	6.7	0.9	12	119	3.6	0.10	1.1	1.8	0.20	B
29	10	21	30.8	19-23.0	155-29.2	7.2	2.3	22	62	11.6	0.10	0.5	0.7	0.12	C
29	20	4	16.5	19-25.5	155-50.1	8.6	1.5	17	274	25.6	0.26	1.6	1.6	0.12	C
30	14	51	15.8	19-24.3	155-26.0	8.0*	1.0	15	157	8.9	0.17	1.3		0.18	C
30	18	8	2.6	19-24.9	155-24.8	8.0*	1.0	14	102	8.7	0.08	0.7		0.14	C
DEC 1	3	15	15.7	19-31.0	155- 8.1	30.3*	2.2	9	341	16.0	1.03	13.3		0.25	D
1	3	18	2.1	19-19.2	155-15.5	6.0	0.8	17	168	3.7	0.12	0.8	0.7	0.17	C
1	5	31	33.4	19-24.9	155-27.5	5.2	1.0	17	94	11.4	0.10	0.7	1.0	0.17	C
1	6	53	5.7	19-20.9	155-13.9	9.0	-0.0	10	164	4.5	0.16	0.9	1.8	0.09	B
1	7	46	9.4	19-23.3	155-17.5	12.3	1.1	19	58	0.9	0.07	0.8	0.6	0.16	B
1	8	25	10.6	19-23.6	155-54.4?	8.0	2.9	13	208	14.7	0.23	3.0	2.9	0.15	C
1	8	27	40.1	19-22.4	155-59.6	13.8*	3.0	17	233	17.5	0.30	2.2		0.14	D
1	12	22	38.6	19-21.0	155-11.4	5.6		12	201	3.3	0.30	2.3	1.1	0.25	C
1	13	3	24.2	19-24.3	155-16.6	12.4	1.6	13	73	1.3	0.11	0.5	0.9	0.07	A
1	13	59	18.2	20- 2.0	155-35.4	8.4	3.1	17	183	22.4	0.20	2.5	3.2	0.20	C
1	14	43	53.8	19-24.4	155-23.6	5.5	1.6	11	174	6.9	0.16	1.2	1.3	0.19	C
1	19	43	8.1	19-23.6	155-23.2	2.6	1.5	18	98	6.1	0.13	0.9	1.9	0.23	C
2	1	18	47.4	19-24.5	155-24.2	8.0*		12	200	7.9	0.10	0.6		0.08	C
2	5	1	47.5	19-24.0	155-16.2	12.8	2.4	22	56	1.8	0.05	0.6	0.4	0.13	B
2	5	16	32.5	19-23.4	155-23.4	8.0*		9	182	6.0	0.07	0.6		0.06	C
2	8	9	20.3	20- 1.2	155-45.4?	5.8*		15	156	12.2	0.09	1.0		0.13	C
2	13	19	16.7	19-15.5	155-19.2	25.8	2.2	14	160	4.6	0.17	0.9	1.7	0.09	B
2	21	41	10.0	19-24.2	155-23.8	8.0*		11	192	7.3	0.11	0.7		0.10	C
3	2	53	51.0	19-20.5	155-13.2	6.5		15	150	5.9	0.18	1.1	1.3	0.22	C
3	3	30	16.0	19-52.1	155-48.6	14.4*		11	178	20.2	0.15	1.5		0.12	C
3	10	59	10.9	19-19.4	155- 9.0	8.0*	0.3	10	176	5.1	0.17	1.4		0.16	C
3	12	36	30.8	19-22.4	155- 0.1	5.7	1.5	13	183	6.7	0.18	1.3	1.0	0.18	C
3	12	42	28.4	19-19.6	155-15.3	10.5	1.9	9	177	3.8	0.15	0.7	1.4	0.07	B
3	16	53	17.6	19-20.8	155-11.8	8.1	0.9	18	150	3.4	0.08	0.7	0.4	0.13	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
DEC	3	18	30 41.4	19-19.3	155- 9.0	8.0*	1.8	13	178	5.4	0.09	0.8		0.11	C
	3	16	57 25.2	19-18.5	155-13.0	8.0*	0.6	9	224	8.2	0.20	1.4		0.11	C
	3	23	26 16.6	19-21.0	155-10.5	8.7	1.2	8	214	2.3	0.16	1.2	1.5	0.08	C
	4	0	56 41.8	18-53.6	155-25.6	24.2	1.2	13	303	29.5	1.73	10.2	9.2	0.18	D
	4	2	29 12.4	19-19.9	155- 6.9	8.0*	1.4	12	170	6.6	0.07	0.7		0.08	C
	4	4	16 59.8	19-24.4	155-17.1	9.2	1.3	6	103	0.9	0.57	2.0	4.5	0.09	B
	4	4	18 53.1	19-20.7	155-13.4	9.2	0.5	11	172	5.3	0.20	1.0	2.1	0.10	C
	4	11	20 46.0	19-15.6	155-24.8	28.5	0.7	16	137	8.9	0.30	1.2	2.9	0.11	B
	4	14	22 20.9	19-20.1	155- 5.9	8.0*	0.9	10	165	5.3	0.20	1.9		0.23	C
	4	14	55 11.4	19-20.1	155-16.4	32.3	3.2	24	133	1.7	0.18	1.0	1.7	0.15	B
	4	16	5 48.0	19-20.2	155-12.1?	7.8	0.2	10	201	4.3	0.18	1.1	0.6	0.11	C
	4	17	38 30.4	19-19.2	155-11.4	5.4	1.7	12	175	6.4	0.18	1.4	1.0	0.20	C
	4	17	42 13.4	19-20.5	155-11.8	6.0	1.6	18	140	3.9	0.11	0.9	0.7	0.21	C
	4	19	7 0.8	19-19.6	155-12.3	10.1	0.9	11	229	5.3	0.39	1.8	2.9	0.10	C
	5	3	35 36.1	19-19.6	155-11.5	8.0*	0.3	11	221	5.4	0.13	0.9		0.10	C
	5	15	16 52.4	19-18.5	155-13.4	8.0*		7	221	7.6	0.20	1.5		0.12	C
	5	21	7 11.0	19-17.7	155- 8.8	8.0*	0.9	11	211	8.2	0.31	2.4		0.25	C
	6	8	7 54.5	19-20.8	155-12.4	6.0	1.8	18	167	3.1	0.14	1.1	0.8	0.25	C
	6	13	4 48.6	19-24.8	155-23.5	8.0*	1.1	12	172	6.9	0.09	0.7		0.11	C
	6	21	10 41.9	19-10.9	155-32.6	4.3	2.2	13	103	8.7	0.13	1.0	1.1	0.22	C
	6	21	11 50.6	19-17.0	155- 1.1	29.3	0.9	10	222	24.9	0.49	2.6	4.1	0.11	C
	7	2	1 22.7	19-31.8	156- 3.9	55.7	1.7	7	239	35.5	1.78	5.8	17.3	0.05	D
	7	10	25 25.5	19-26.0	155-27.1?	8.0	3.0	22	45	9.7	0.09	0.5	0.7	0.14	B
	7	11	59 42.4	19-26.3	155-51.9?	5.6	1.5	11	257	19.0	0.38	2.5	3.0	0.12	D
	7	17	12 55.0	19-17.6	155-15.4	10.2	0.8	9	226	5.8	0.39	2.1	3.2	0.11	C
	7	20	5 53.1	19-51.6	155-28.6	8.9	0.7	9	270	14.4	2.36	24.2	19.8	0.11	D
	7	23	19 25.5	19-18.6	155-12.9	3.9	1.2	20	176	7.2	0.21	1.2	1.3	0.26	C
	7	23	41 17.0	19-19.6	155-13.0	8.0*	0.3	13	184	7.2	0.18	1.4		0.21	C
	8	2	47 7.4	19-20.3	155- 8.1	4.0	2.4	22	145	4.4	0.16	1.1	1.0	0.26	C
	8	4	34 53.1	19-10.8	155-36.3	7.4	3.0	21	97	7.7	0.16	1.0	1.0	0.22	C
	8	5	8 47.0	19-20.9	155-13.6	8.0*	0.1	8	166	6.8	0.13	1.0		0.13	C
	8	7	5 28.9	19-20.7	155-12.1	6.3	2.5	21	138	3.4	0.10	0.8	0.6	0.19	B
	8	7	22 50.1	19-21.0	155- 4.5?	5.6	1.3	10	130	3.4	0.28	2.4	2.0	0.32	C
	8	9	28 31.8	19-24.1	155-24.8	8.0*	0.9	16	78	7.6	0.11	0.9		0.21	B
	8	11	21 36.1	19-20.3	155-10.8?	9.2	0.4	10	224	3.6	0.62	3.8	2.2	0.18	C
	8	11	48 15.3	19-19.3	155- 9.8	7.9		10	233	5.1	0.39	2.6	1.4	0.17	D
	8	19	55 10.5	19-19.7	155-15.3	8.0		14	163	3.8	0.09	0.7	0.4	0.13	C
	9	6	11 46.5	19-19.3	155-14.5	8.0*	0.7	11	187	5.3	0.13	0.9		0.13	C
	9	9	30 16.8	19-13.4	155- 0.5?	34.1	1.3	14	249	22.9	0.34	1.8	2.4	0.09	C
	9	10	7 2.2	19-18.6	155- 6.2	8.0*		11	256	9.1	0.59	3.5		0.21	D
	9	17	38 44.5	19-19.4	155-15.5	6.6	1.5	19	166	3.5	0.11	0.8	0.6	0.18	C
	10	0	44 40.9	19-44.2	155-24.5	28.4	1.3	19	95	7.2	0.16	0.8	1.8	0.09	A
	10	0	58 6.6	19-10.8	155-36.9	6.0	2.3	13	96	7.6	0.19	1.2	1.3	0.23	C
	10	3	59 45.3	19-22.5	155-25.4	8.0*	1.2	13	139	5.6	0.07	0.6		0.11	C
	10	10	46 55.1	19-20.8	155-26.1	6.1	1.0	15	76	4.9	0.10	0.9	1.0	0.21	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
DEC	10	14	56 47.3	19-31.0	155-53.2	8.0*	0.9	5	344	52.4	0.40	5.0		0.05	D
	10	15	48 29.8	19-19.6	155-11.8	8.1	0.1	8	220	5.6	0.16	1.2	0.6	0.08	C
	10	16	6 19.3	19-18.4	155-15.2	9.3	0.3	9	207	4.9	0.27	1.4	2.4	0.10	C
	10	18	56 26.8	19-19.9	155-16.5	8.3	0.4	10	178	1.7	0.11	0.8	1.1	0.07	B
	10	19	51 16.0	19-19.9	155- 9.7	10.7	0.7	11	197	4.0	0.22	2.1	2.1	0.17	C
	10	20	2 7.9	19-20.1	155-14.7	28.3	0.8	11	196	4.8	0.24	1.3	2.1	0.08	C
	10	21	55 56.9	19-24.7	155-26.5	3.9	1.5	17	74	10.1	0.10	0.7	1.1	0.17	C
	10	22	53 26.2	19-19.6	155-16.4	8.8	0.9	9	164	2.0	0.20	1.3	2.1	0.10	C
	10	23	54 45.5	19-35.4	155- 9.4	8.0*		10	247	13.8	0.29	1.7		0.11	D
	11	2	29 36.6	19-40.9	154-58.4	49.1	1.9	23	217	21.7	0.36	1.6	3.0	0.12	C
	11	3	35 13.0	19-22.8	155-22.9	8.0*	0.2	8	169	4.9	0.08	0.7		0.09	C
	11	8	33 17.4	19-24.1	155-25.8?	0.0		13	149	8.4	7.95	0.9	15.1	0.18	C
	11	8	35 0.8	19-16.3	155-29.0	4.9		9	126	12.3	0.11	1.1	1.3	0.16	C
	11	11	54 49.6	19-22.9	155-26.8	0.4*		14	127	7.8	0.14	0.9		0.23	C
	11	15	36 18.9	19-19.1	155- 3.6?	0.0		11	202	12.2	8.32	1.9	15.4	0.17	C
	11	15	43 39.4	19-22.1	155-17.7	22.2		12	83	3.2	0.22	1.0	2.1	0.08	B
	11	21	51 47.1	19-20.1	155- 8.2?	7.8		9	166	4.6	0.15	1.5	1.0	0.11	C
	12	6	5 40.4	19-37.3	155-11.9	14.4*	2.0	23	173	19.2	0.10	0.8		0.14	C
	12	13	38 53.0	19-26.4	155-23.9	6.9	1.3	20	66	5.9	0.08	0.7	0.6	0.18	B
	13	5	3 49.9	19-21.3	155-15.4	26.5	1.4	19	142	2.2	0.13	0.8	1.3	0.11	B
	13	14	37 8.6	19-18.5	155-20.8	6.8	1.7	16	113	4.0	0.10	0.9	0.7	0.17	B
	13	16	10 5.3	19-19.1	155-13.6	8.0*		9	207	7.0	0.15	1.0		0.11	C
	13	16	56 15.3	19- 1.2	155-20.3	32.3		14	237	20.2	0.49	2.5	4.2	0.10	C
	13	16	57 39.6	19- 9.5	155-25.7	31.2		12	193	20.2	0.38	2.0	4.3	0.10	C
	13	16	59 34.9	19-24.7	155-16.3	12.9	1.6	9	144	1.3	0.16	0.6	1.3	0.04	B
	13	22	7 54.5	19-14.6	155-28.0?	6.4		12	123	4.0	0.09	1.0	0.8	0.14	B
	13	22	18 19.0	19-14.6	155-30.4?	8.9	2.1	14	91	7.2	0.10	1.0	0.9	0.19	B
	13	23	3 21.6	19-20.2	155- 8.7	7.7	2.2	21	164	4.0	0.12	1.0	0.7	0.17	C
	13	23	21 29.6	19-22.6	155-28.1	4.7	1.8	14	58	9.5	0.10	0.8	1.3	0.21	C
	14	1	34 3.4	19-10.7	155-34.0?	5.3	2.3	14	104	9.5	0.15	1.2	1.3	0.25	C
	14	3	6 51.3	19-20.7	155-12.4	6.9	2.0	22	168	3.3	0.12	0.9	0.5	0.18	C
	14	12	16 53.0	19-15.3	155- 9.8	37.4		9	248	16.0	0.50	2.6	3.9	0.07	D
	14	21	48 54.8	19-20.2	155- 7.8	8.0		16	200	4.9	0.25	1.7	1.0	0.16	C
	14	23	42 3.5	19-23.3	155-11.4	45.4		14	106	3.6	0.40	1.7	3.6	0.09	B
	15	6	17 29.3	19-20.6	155-20.6	27.8		11	68	4.7	0.24	1.3	2.5	0.10	B
	15	12	3 8.4	19-23.0	155-25.7	7.6	2.1	20	76	6.7	0.11	0.6	0.7	0.15	B
	15	17	22 12.5	19-20.1	155-13.7	30.9		15	139	5.7	0.37	1.9	3.8	0.16	C
	15	23	36 53.9	19-52.4	155- 8.3?	49.7	2.8	23	216	21.5	0.35	1.5	3.2	0.11	C
	16	0	5 2.8	19-22.4	155-23.9?	8.5		13	160	4.2	0.18	1.2	2.9	0.14	C
	16	4	28 41.0	19-12.1	155- 4.8?	0.0*		11	276	20.5	0.78	4.4		0.30	D
	16	8	46 20.2	19-20.5	155-14.7	6.2		14	183	4.0	0.17	1.0	0.9	0.15	C
	16	12	14 36.6	20- 7.6	156-37.5	4.7	3.0	22	248	81.0	0.35	2.6	3.0	0.17	D
	17	2	7 20.8	19-21.1	155- 2.1?	1.4		13	213	13.7	1.97	1.7	6.9	0.16	C
	17	7	48 40.1	19-23.0	155-23.2	8.4	1.8	17	53	5.1	0.05	0.5	1.1	0.12	B
	17	7	53 8.3	19- 0.8	155-29.1	14.1*		15	230	19.2	0.30	2.5		0.20	D

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
DEC	17	12	58 8.4	19-20.3	155-11.0?	8.3	1.9	11	217	3.8	0.14	0.9	0.5	0.10	C
	17	13	57 19.7	19-19.2	155-47.1	4.7	1.0	10	169	10.9	0.15	1.5	1.5	0.10	C
	17	16	2 30.1	19-17.0	155- 7.0?	0.0	1.6	19	219	10.6	5.47	1.6	10.1	0.24	C
	17	18	16 50.0	19-15.4	155-26.7	7.6	2.8	18	150	1.8	0.15	1.1	0.8	0.23	C
	17	21	0 52.9	19-20.3	155-12.1	11.2	1.2	9	217	5.1	0.41	2.2	3.0	0.11	C
	18	3	10 59.2	19-20.5	155-17.3	7.0	0.5	11	127	0.7	0.21	1.4	1.0	0.18	B
	18	3	35 5.9	19-19.0	155-13.4	7.8	0.5	15	213	6.6	0.14	0.9	0.4	0.11	C
	18	5	34 25.9	19-25.4	155-24.1?	7.3	1.2	18	62	7.2	0.05	0.6	1.8	0.13	B
	18	10	14 30.1	19-20.5	155-13.2	5.7		13	180	3.7	0.20	1.2	1.1	0.19	C
	18	10	15 31.4	19-47.4	155-23.4	27.9	3.0	21	109	12.1	0.24	1.3	3.6	0.16	B
	18	16	46 43.2	19-19.6	155-13.3	8.0*		9	199	6.8	0.12	0.9		0.11	C
	18	19	43 48.8	19-20.3	155-11.0	9.3		11	159	3.9	0.09	0.7	1.4	0.08	B
	18	23	53 57.4	19- 6.1	155-25.5	40.8		13	201	7.5	0.46	2.2	4.6	0.12	C
	19	3	23 38.2	19-23.6	155- 3.3?	2.8		10	114	6.9	0.20	1.4	2.4	0.26	C
	19	3	28 27.4	19-20.7	155-12.3	8.0*		11	185	4.9	0.10	0.7		0.07	C
	19	3	29 13.7	19-30.6	155-41.8?	3.1	2.9	17	109	10.5	0.12	0.8	1.0	0.11	C
	19	3	34 3.3	19-20.6	155-24.6?	8.1		13	130	2.3	0.11	1.1	1.1	0.18	B
	19	4	32 9.5	19-20.5	155-19.8	1.7	1.3	10	109	4.3	0.17	0.5	0.7	0.08	A
	19	15	6 57.9	19-23.5	155-23.4	8.0*		10	181	6.1	0.12	0.9		0.13	C
	19	20	5 43.9	19-21.9	155- 6.0	3.7	0.8	9	127	6.5	0.17	1.4	1.9	0.22	C
	19	20	57 24.9	19-33.4	155-54.9	9.2	1.3	12	251	34.0	0.34	2.5	2.5	0.15	D
	19	22	13 23.7	19-19.4	155-12.8	8.0*	1.6	10	208	7.1	0.19	1.3		0.14	C
	20	0	15 1.7	19-24.2	155-17.9	7.8	1.3	7	121	2.0	0.37	0.7	2.2	0.05	B
	20	0	23 52.3	19-23.3	155-16.9	13.1	1.5	20	57	0.2	0.05	0.7	0.5	0.12	B
	20	0	30 44.7	19-23.4	155-17.0	11.8	0.8	12	68	0.1	0.10	1.0	1.0	0.15	B
	20	0	43 24.3	19-24.6	155-17.2	4.3	1.2	5	106	2.3				0.09	D
	20	0	58 37.3	19-20.6	155-19.9	0.8	0.7	8	109	4.4	0.08	0.3	0.4	0.06	A
	20	8	2 23.0	19-22.1	155-12.4	4.9	0.1	11	131	0.8	0.10	0.5	1.1	0.10	B
	20	8	38 2.6	19-21.9	155-25.6	4.1	0.8	14	70	5.2	0.12	1.0	1.6	0.26	C
	20	9	34 49.5	19-18.8	155-16.3	30.4	2.4	22	143	3.0	0.12	0.8	1.2	0.12	B
	20	13	42 56.0	19-20.2	155-12.3	8.7		5	281	7.6				0.03	D
	20	17	32 59.2	19- 9.6	155-41.2	1.7	3.2	21	128	12.1	1.32	1.0	4.7	0.23	C
	20	21	31 22.2	19-58.5	155-46.5?	0.0	2.1	15	209	17.0	0.49	1.2	0.8	0.12	C
	21	0	27 11.8	19-21.9	155-13.1	4.6		9	159	1.3	0.22	0.9	2.1	0.12	C
	21	15	16 36.5	19-23.9	155-29.0	6.3	1.4	16	86	12.1	0.06	0.5	0.5	0.12	B
	21	16	11 49.3	19-23.7	155-28.9	5.5	1.8	14	88	11.7	0.11	0.9	1.2	0.20	C
	21	19	29 13.7	19-22.2	155-13.1	4.6	0.4	10	150	0.8	0.11	0.6	1.1	0.09	B
	21	21	16 49.6	20- 7.4	155-52.0	33.8	3.0	28	267	9.1	0.37	2.0	3.1	0.14	C
	21	22	42 2.4	19-28.4	155-56.5	1.2	3.1	23	211	24.0	0.38	1.3	1.5	0.15	C
	22	11	38 2.8	19-23.9	155-23.4	4.6	1.3	12	171	6.9	0.13	0.9	1.3	0.14	C
	22	17	53 42.6	19-19.2	155-13.5	8.0*	0.9	13	193	7.1	0.12	0.9		0.12	C
	22	21	55 1.8	19-19.7	155-12.1	1.8	1.3	19	165	5.2	1.48	1.0	5.4	0.25	C
	22	22	17 22.1	19-23.5	155-22.3?	2.5	1.0	12	154	4.5	0.28	0.6	0.9	0.12	C
	23	2	9 23.6	19-19.1	155-13.8	8.0*	0.8	12	204	6.6	0.16	1.1		0.15	C
	23	2	45 29.9	19-21.7	155-15.1	10.6	1.1	8	208	1.9	0.22	0.9	1.6	0.05	B

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
DEC 23	5	13	21.2	19-19.2	155-18.2	33.0	0.7	16	113	2.2	0.21	1.1	1.9	0.11	B
23	9	4	51.1	19-34.0	155-59.1	44.9	5.2	27	188	20.3	0.19	1.0	2.3	0.13	C
23	9	11	59.8	19-34.2	155-58.5	51.2	3.1	21	246	19.4	0.42	1.7	3.3	0.08	C
23	16	11	3.8	19-21.6	155-29.6	4.0	0.9	17	60	10.8	0.09	0.7	1.0	0.19	C
23	16	31	2.8	19-19.6	155-13.8	7.5	1.3	21	144	5.5	0.08	0.6	0.4	0.13	B
23	16	32	32.7	19-18.8	155-13.4	8.0*	0.8	14	214	6.9	0.15	0.9		0.10	C
23	18	54	6.5	19-19.1	155-13.5	8.0*	1.0	11	208	6.4	0.12	0.8		0.10	C
23	20	29	7.8	19-18.8	155-13.6	8.1	1.3	17	175	6.9	0.11	0.8	0.5	0.11	C
23	20	52	42.7	19-18.6	155-13.4	8.0*	0.7	8	219	7.6	0.17	1.2		0.11	C
23	22	10	29.8	19-20.2	155-11.9	11.4	1.4	11	205	4.4	0.27	1.1	2.3	0.08	C
24	0	17	20.4	19-43.1	155-46.9	27.4	1.9	9	120	6.8	0.20	1.2	2.5	0.04	B
24	7	15	39.5	19-17.7	155-12.9	8.0*	0.8	13	237	8.9	0.22	1.4		0.11	D
24	8	47	11.4	19-20.6	155-14.5	3.7		10	101	3.8	0.23	0.6	2.2	0.08	B
24	10	43	5.1	19-33.4	155-59.8	47.3	4.8	26	222	21.9	0.30	1.3	2.8	0.11	C
24	22	49	29.3	19-23.9	155-15.7	4.0	1.1	11	131	2.4	0.20	0.7	1.4	0.10	B
25	0	40	42.9	19-19.7	155- 7.9	3.2	1.8	21	173	5.5	0.16	1.0	1.0	0.24	C
25	0	58	3.5	19-19.3	155-12.9?	0.0	1.5	17	193	7.4	8.01	1.5	15.1	0.29	C
25	1	30	23.6	19-15.7	155-20.9	45.9	1.1	9	257	5.7	2.34	7.2	18.2	0.12	D
25	2	59	19.4	19-48.6	155-22.7	32.0	1.5	21	113	8.9	0.18	0.9	2.0	0.10	B
25	5	26	42.9	19-30.2	155-46.5	6.9	1.8	18	141	18.5	0.72	0.9	5.2	0.15	C
25	5	38	4.4	19-19.6	155-13.6	6.4	1.5	16	187	6.5	0.16	1.1	0.9	0.19	C
25	6	3	23.3	19-22.4	155-23.7	6.6	1.0	18	95	4.1	0.08	0.7	0.7	0.18	B
25	7	1	47.3	19-18.9	155-15.6?	9.0	0.7	12	192	3.8	0.22	1.4	2.4	0.16	C
25	7	17	31.7	19-24.6	155-17.3	9.2	1.3	7	90	0.6	0.28	1.0	2.2	0.06	B
25	12	32	36.8	19-23.5	155-22.5	10.7	1.3	13	115	5.0	0.09	0.5	1.3	0.08	A
25	22	8	11.3	19-34.1	156- 0.7	47.3	3.5	27	225	22.4	0.37	1.6	3.4	0.12	C
26	2	3	19.3	19-12.2	155-11.4	8.0*	0.3	12	214	16.5	0.36	2.2		0.25	C
26	2	6	51.8	19-26.2	155-26.8	7.9	1.1	19	68	9.1	0.10	0.6	0.7	0.13	B
26	5	38	12.1	19-24.5	155-16.3	19.6		16	72	2.8	0.13	1.0	1.6	0.14	B
26	18	2	43.9	19-28.8	155-26.6	5.0	2.5	22	84	6.1	0.10	0.7	0.8	0.20	C
26	19	13	28.7	19-30.3	155-50.6	8.6	0.8	12	227	25.7	0.35	2.3	2.8	0.20	C
26	21	1	32.4	19-21.0	155-16.3	31.0	1.7	19	121	2.6	0.15	0.9	1.5	0.12	B
27	8	0	11.3	19-24.2	155-15.8	3.1	1.0	7	112	2.4	0.10	0.3	1.1	0.04	B
27	10	30	38.5	19-18.0	155-14.2	14.5		8	223	6.8	0.19	1.1	1.7	0.05	C
27	20	18	23.2	19-20.5	155-15.1	10.8	1.9	10	139	3.7	0.22	1.9	2.4	0.18	C
27	20	40	1.9	19-20.6	155- 8.1	7.3	0.5	9	157	4.1	0.13	1.3	0.8	0.15	C
28	1	11	16.5	19-20.4	155-13.1	8.0*-0.0		11	183	6.1	0.11	0.8		0.10	C
29	3	51	9.5	19-24.2	155-24.0	7.4	0.8	11	124	7.5	0.07	0.6	0.6	0.11	B
29	4	43	40.9	19-28.9	155-34.5?	32.2*	1.2	6	174	2.7	6.23			1.40	D
29	4	59	50.1	19-21.4	155-13.3	11.5		8	158	5.0	0.26	0.7	2.4	0.05	C
29	7	34	30.3	19-22.7	155- 2.2?	2.7	1.0	8	141	5.3	0.29	2.3	2.8	0.29	C
29	14	54	24.2	19-24.3	155-25.7?	0.0	1.7	11	183	8.6	7.99	1.0	15.1	0.14	C
29	23	32	38.2	19-21.2	155- 7.0	2.3	1.8	14	146	5.2	0.16	1.3	1.6	0.20	C
30	3	33	54.6	19-19.6	155-13.9	6.3	1.5	18	160	6.2	0.13	0.9	0.7	0.18	C
30	11	40	41.3	19-18.1	155-12.8	8.1	1.7	14	227	8.0	0.22	1.4	0.6	0.13	C

SUMMARY OF SEISMIC EVENTS (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	ERT	ERH	ERZ	MD	Q
DEC 30	14	42	0.9	19-18.8	155-13.2	7.9	2.5	22	152	6.7	0.10	0.7	0.5	0.13	C
30	15	34	52.4	19-18.6	155-13.3	5.9		12	181	7.8	0.21	1.4	1.1	0.19	C
30	18	42	51.4	19- 9.6	155-23.9	47.3		19	131	1.7	0.38	1.6	3.4	0.14	B
31	0	57	36.3	19-22.9	155-25.5	2.9		15	166	6.3	0.17	1.0	2.0	0.19	C
31	4	0	53.4	19-24.5	155-26.7	8.0*	1.8	12	248	9.9	0.21	1.2		0.09	D
31	12	37	52.6	19-20.1	155- 8.8	4.2	2.2	20	165	4.1	0.14	1.0	1.0	0.19	C
31	21	58	11.3	19-25.6	155-21.6	5.5	1.4	13	143	4.0	0.10	0.7	0.8	0.15	B

Table 3. Felt earthquakes

Date	Time H	M	S	Magnitude	Felt report
Nov 17	09	29	33.9	3.7	Kurtistown, Hilo
19	07	47	37.4	3.0	South Kona
19	17	39	53.8	3.6	Hilo
19	18	05	02.1	3.0	Kamuela
Dec 1	13	59	18.2	3.1	Kamuela, Ahualoa
4	14	55	11.4	3.2	Kapapala
17	18	16	50.0	2.8	Kapapala
21	22	42	02.4	3.1	Kailua-Kona, Kealakekua, Kainaliu
23	09	04	51.1	5.2	Kona, Kau, Naalehu, Volcano, Waimea, Puako, and on the Island of Maui
23	09	11	59.8	3.1	Kealakekua
24	10	43	05.1	4.8	Kona and on the Island of Oahu
25	22	08	11.3	3.5	Kona and on the Island of Oahu

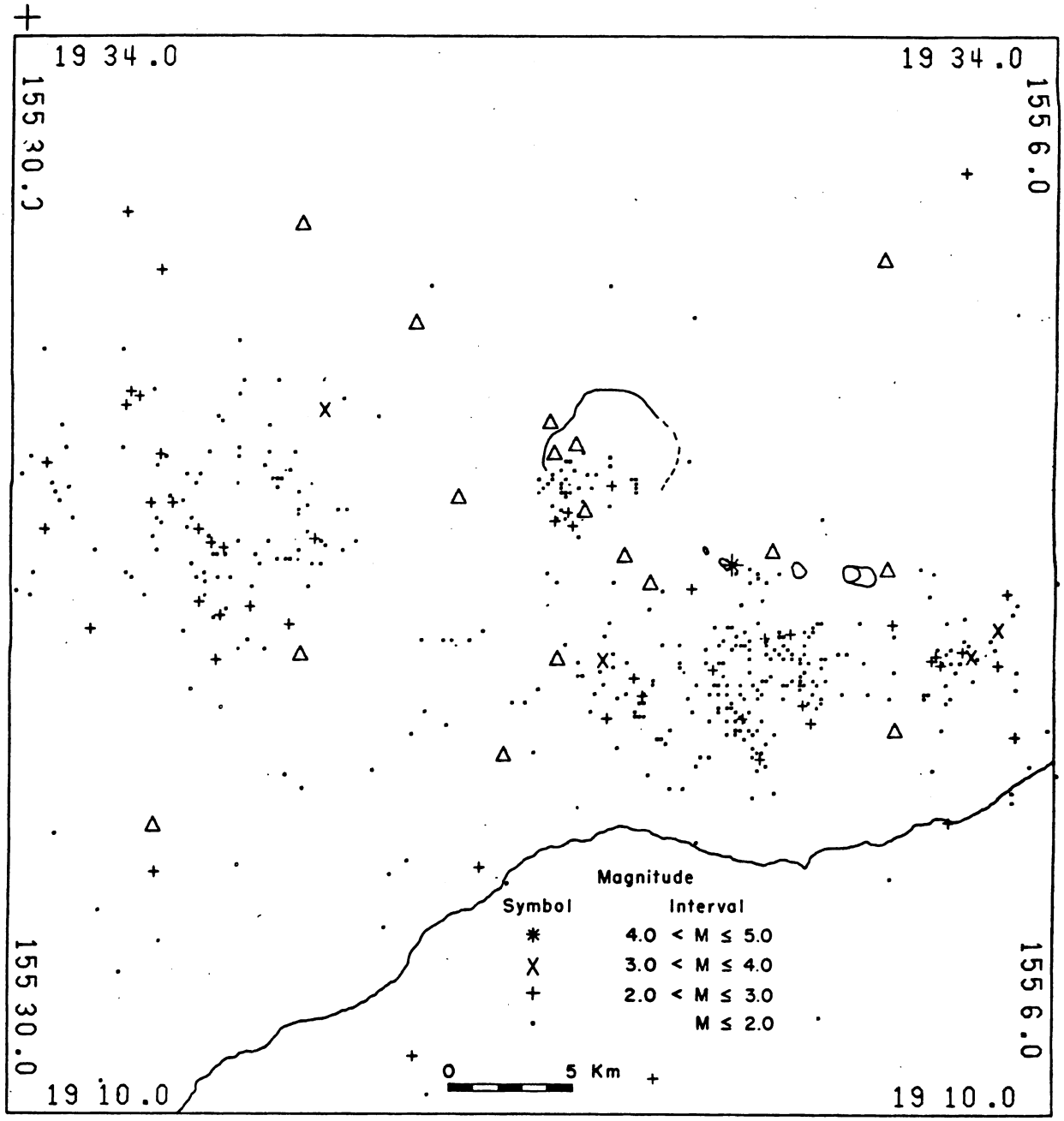

Figure 1.--Plot of epicenters in the Kilauea region. Triangles are seismometer locations. Kilauea Caldera and the major pit craters on the east rift are shown in outline. The Pacific Ocean lies in the lower right portion of the illustration.

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					

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.

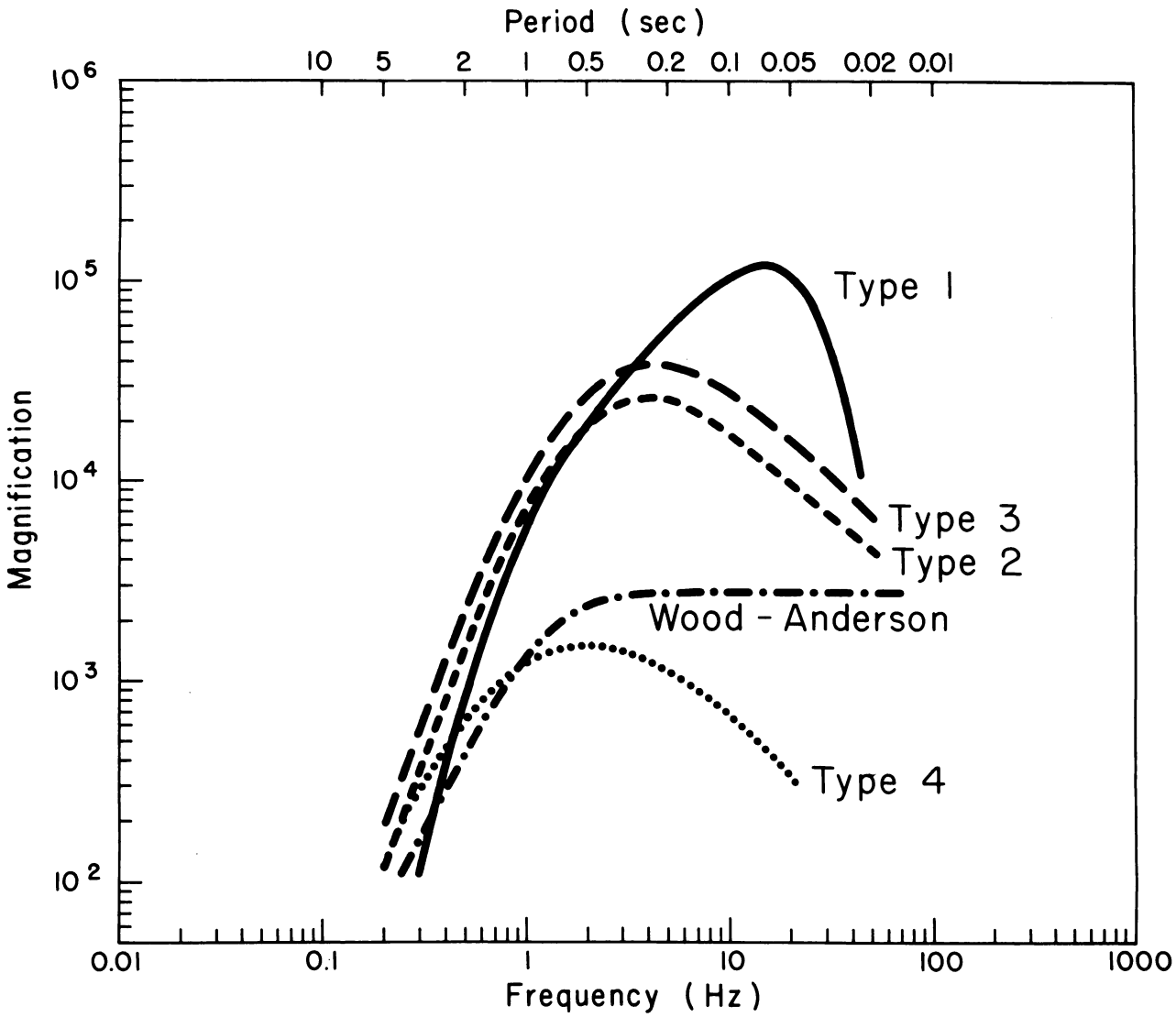

Figure 2.--System response curves for the Wood-Anderson torsion seismograph and for the four different types of seismometer-amplifier (or galvanometer) combinations in use by the Hawaiian Volcano Observatory.

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 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 data on each tiltmeter station are listed in Table 7, Summary 65.

Table 6.--Tilt Coordinates at Uwekahuna,

October, November, and December 1972

Date	N-S	E-W	Date	N-S	E-W
Oct. 1	726	326	Dec. 3	722	318
8	726	323	10	722	317
15	725	323	17	722	318
22	726	323	24	721	317
29	725	321	31	721	319
Nov. 5	724	320			
12	724	319			
19	723	317			
26	723	318			

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

Tilt base	Date (1972)	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)	5 Dec	746.3	353.5	0.87	S31.9°E	5 Jun
Tree Molds (TM)	5 Dec	580.3	483.2	0.45	S 8.4°E	5 Jun
Sand Split (SS)	6 Dec	1022.4	726.1	3.06	S13.0°E	6 Jun
Mehana (M)	5 Dec	612.5	601.7	0.40	N19.2°E	5 Jun
Keamoku (Kea)	5 Dec	777.6	228.2	3.09	S30.9°E	8 Jun
Ahua Kamokukolau (Kam)	6 Dec	376.1	535.6	3.30	N21.0°W	6 Jun
Kipuka Nene (KN)	7 Dec	279.9	498.5	0.31	N29.4°W	7 Jun
Hilina Pali (HP)	7 Dec	457.6	487.2	0.32	N66.0°W	7 Jun
Kapapala Ranch (Kap)	6 Dec	480.2	523.1	0.50	N82.4°E	8 Jun

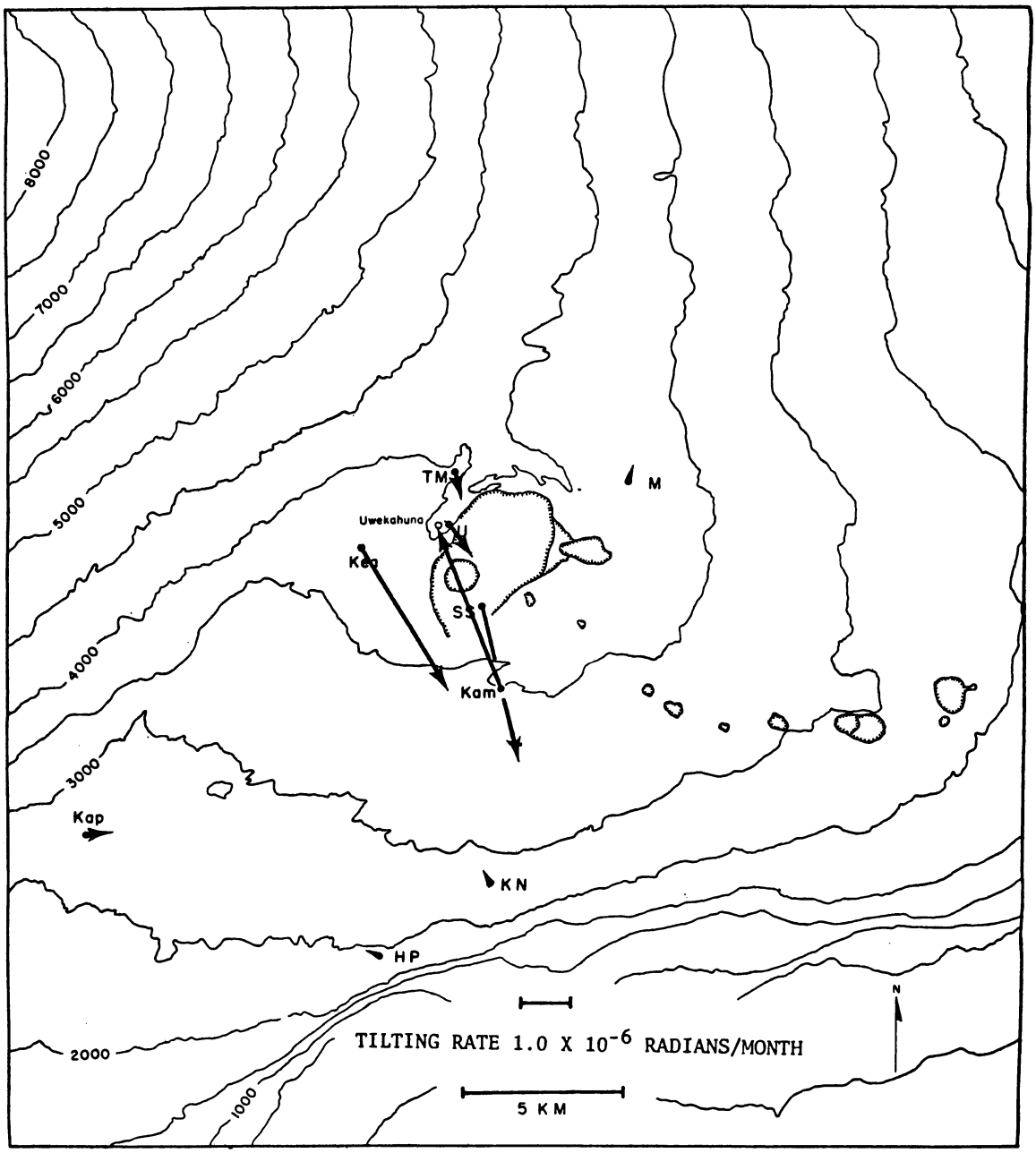

Figure 3.--Tilting of the ground around Kilauea Caldera. The vector depicting tilting at a given tilt base points in the direction of maximum relative subsidence, and its length is proportional to the rate of tilting during the measurement interval. Closed circles represent field tilt bases; open circles,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

Publications of Special Interest
and HVO Contributions, 1972

Duffield, W. A., 1972, A naturally occurring model of global plate tectonics: Jour. Geophys. Res., vol. 77, no. 14, p. 2543-2555.

Duffield, W. A., 1972, Kilauea Volcano provides a model for plate tectonics: Geotimes, p. 19-21, v. 17, no. 4.

Fiske, R. S., and Jackson, E. D., 1972, Orientation and growth of Hawaiian volcanic rifts: The effect of regional structure and gravitational stresses: Proc. R. Soc. Lond. A. 329, p. 299-326.

Jackson, D. B., and Keller, G. V., 1972, An electromagnetic sounding survey of the summit of Kilauea Volcano, Hawaii: Am. Geophys. Union, v. 77, no. 26, p. 4957-4965.

Keller, G. V., Jackson, D. B., and Rapolla, Antonio, 1972, Magnetic noise preceding the August 1971 summit eruption of Kilauea Volcano: Science, v. 175, p. 1457-1458.

Koyanagi, R. Y., Swanson, D. A., and Endo, E. T., 1972, Distribution of earthquakes related to mobility of the south flank of Kilauea Volcano, Hawaii: U.S. Geol. Survey Prof. Paper 800-D, p. D89-D97.

McDougall, Ian, and Swanson, D. A., 1972, Potassium-Argon Ages of Lavas from the Hawi and Pololu Volcanic Series, Kohala, Volcano, Hawaii: Geol. Soc. Am. Bull., v. 83, p. 3731-3738.

Swanson, D. A., 1972, Magma supply rate at Kilauea Volcano, 1952-1971: Science, v. 175, p. 169-170.

Swanson, D. A., and Peterson, D. W., 1972, Partial draining and crustal subsidence of Alae lava lake, Kilauea Volcano, Hawaii: U.S. Geol. Survey Prof. Paper 800-C, p. C1-C14.

Swanson, D. A., Duffield, W. A., Jackson, D. B., and Peterson, D. W., 1972, The complex filling of Alae Crater, Kilauea Volcano, Hawaii: Bull. Volcanologique, Tome XXXVI-1, p. 105-126.

Reference Cited

Hamilton, R. M., B. E. Smith, J. C. Hall, and J. H. Healy, 1969, Summary of seismic activity in the Pahute Mesa area, Nevada Test Site, December 1968 - June 30, 1969: U.S. Atomic Energy Comm. (USGS-474-58): Springfield, Va., Clearinghouse for Federal Sci. and Tech. Inf., 63 p.