



**HAWAIIAN VOLCANO OBSERVATORY  
1985 Annual Administrative Report**

INTRODUCTORY NOTE BY THOMAS L. WRIGHT AND JENNIFER S. NAKATA

**COMPILED BY JENNIFER S. NAKATA**

SUMMARY 85

SEISMIC DATA, JANUARY TO DECEMBER 1985  
BY JENNIFER S. NAKATA, ROBERT Y. KOYANAGI,  
WILFRED R. TANIGAWA, AND ALVIN H. TOMORI

CHRONOLOGICAL SUMMARY  
BY THOMAS L. WRIGHT

**OPEN-FILE REPORT 2007-1345**

U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

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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 (4<sup>th</sup> quarter 1959, 1<sup>st</sup> 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:

<b>Location</b>	<b>Beginning Date</b>	<b>Ending Date</b>	<b>Comment</b>
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 1<sup>st</sup> Quarter Report of 1960 and to the 4<sup>th</sup> 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>.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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SUMMARY 85

SEISMIC DATA, JANUARY TO DECEMBER 1985

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**This report (map) is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards (and stratigraphic nomenclature). Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S.G.S.**

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DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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BY

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CHRONOLOGICAL SUMMARY

BY

THOMAS L. WRIGHT

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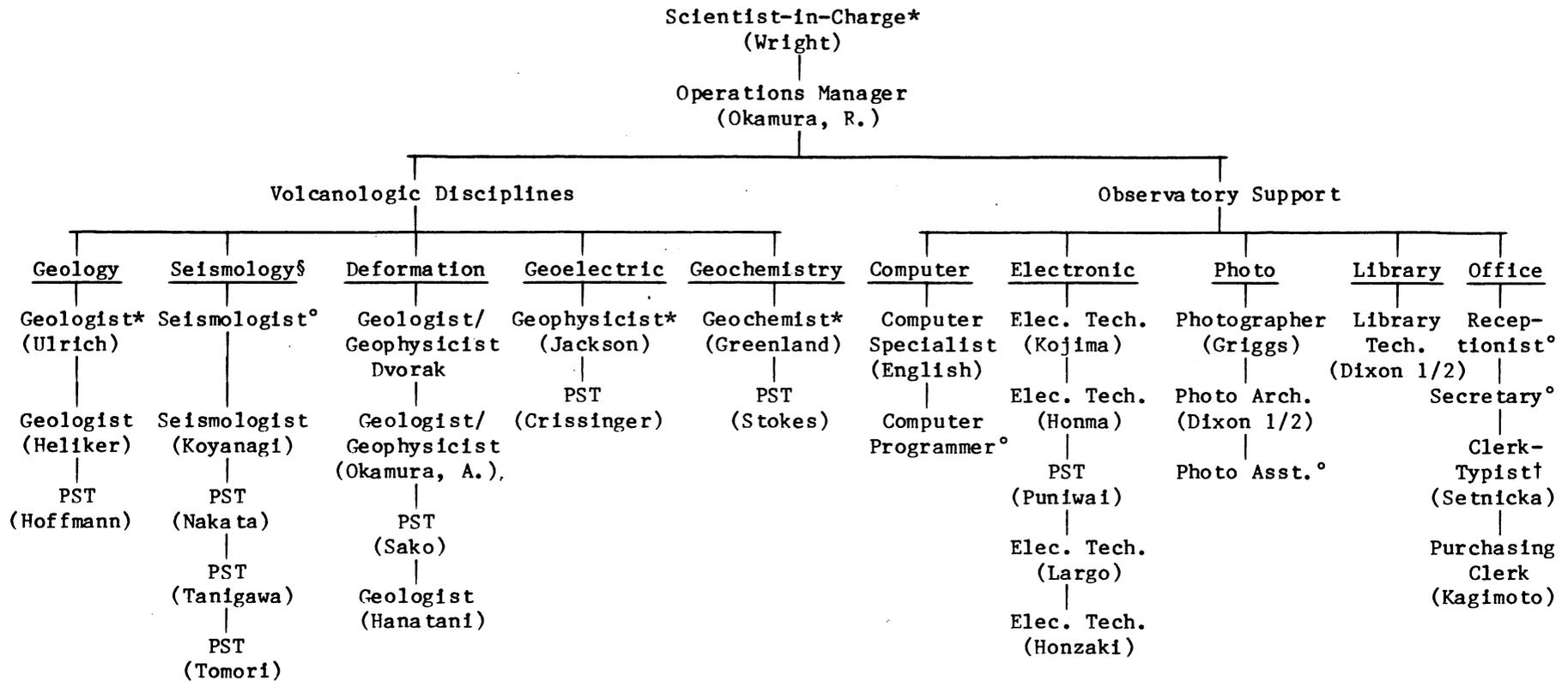
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+ Arrived during 1985  
\* Left during 1985

HAWAIIAN VOLCANO OBSERVATORY ORGANIZATIONAL CHART - 1985



\*Rotating Assignment

°Vacancy

†20 hr/week

§Seismic record changing  
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Geologic history of Mauna Loa Volcano

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Geology and petrology of Hualalai Volcano, Hawaii

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C. Neal

Geologic map of the Island of Hawaii

## CONTENTS

	<u>Page</u>
Introduction .....	1
Chronological Summary .....	2
Seismic Instrumentation .....	14
Figure 1 Map of Hawaii showing geographic and geologic features .....	16
Figure 2 Map of Hawaii showing seismic stations operated by the USGS .....	17
Figure 3 Seismic telemetry scheme .....	18
Table 1 Seismic stations on Hawaii operated by the USGS .....	19
Table 2 Seismic instrumentation types in use by HVO .....	20
Figure 4 System response curve of the four basic seismograph types in use by HVO .....	21
Seismic Data Processing .....	22
Seismic Summary .....	23
Table 3 Number of earthquakes and minutes of tremor recorded on seismographs around Kilauea and Mauna Loa .....	23
Table 4 Coordinates of named regions used for classifying earthquakes .....	32
Figure 5 Earthquake classification map, Kilauea, depths 0-5 km .....	34
Figure 6 Earthquake classification map, Kilauea, depths 5-13 km .....	35
Figure 7 Earthquake classification map, Hawaii, depths 0-13 km .....	36
Figure 8 Earthquake classification map, Hawaii, depths 13-99 km .....	37
Figure 9 Hawaiian Islands Earthquake Locations, depths 0-60 km, $M > 3.5$ .....	38
Figure 10 Hawaii Island Earthquake Locations, depths 0-5 km, $M > 2.0$ .....	39
Figure 11 Hawaii Island Earthquake Locations, depths 5.1-13 km, $M > 2.0$ .....	40
Figure 12 Hawaii Island Earthquake Locations, depths 13.1-60 km, $M > 2.0$ .....	41

Figure 13	Kilauea Summit Earthquake Locations, depths 0-5 km, $M > 1.0$ .....	42
Figure 14	Kilauea Summit Earthquake Locations, depths 5.1-13 km, $M > 1.0$ .....	43
Figure 15	Kilauea Summit Earthquake Locations, depths 13.1-60 km, $M > 1.0$ .....	44
Figure 16	Kilauea South Flank Earthquake Locations, depths 0-5 km, $M > 2.0$ .....	45
Figure 17	Kilauea South Flank Earthquake Locations, depths 5.1-13 km, $M > 2.0$ .....	46
Figure 18	Kilauea South Flank Earthquake Locations, depths 13.1-60 km, $M > 2.0$ .....	47
Figure 19	Mauna Loa Summit Earthquake Locations, depths 0-5 km, $M > 2.0$ .....	48
Figure 20	Mauna Loa Summit Earthquake Locations, depths 5.1-13 km, $M > 2.0$ .....	49
Figure 21	Mauna Loa Summit Earthquake Locations, depths 13.1-60 km, $M > 2.0$ .....	50
Figure 22	Hawaii Island Earthquake Locations, depths 0-60 km, $M > 3.0$ .....	51
Table 5	List of all located earthquakes .....	52
Table 6	List of located earthquakes of magnitude 3.0 or greater .....	76
Table 7	Publication summary .....	79

## INTRODUCTION

The Hawaiian Volcano Observatory (HVO) summary presents data gathered during the year together with a chronological narrative describing the volcanic events and significant observatory related activities. The seismic summary is offered without interpretation as a source of preliminary data. The seismic summary is complete in the sense that all data routinely gathered by the observatory are included. The emphasis in collection of tilt and deformation data has shifted from quarterly measurements at a few water-tube tilt stations ("wet" tilt) to a larger number of continuously recording borehole tiltmeters, repeated measurements at numerous spirit-level tilt stations ("dry" tilt), and surveying of level and trilateration networks. Because of the large quantity of deformation data now gathered and differing schedules of data reduction, the seismic and deformation summaries are published separately.

The HVO summaries have been published in various formats since 1956. Summaries prior to 1974 were issued quarterly, but cost, convenience of preparation and distribution, and the large quantities of data dictated an annual format beginning with Summary 74 for the year 1974. Summary 74 includes an extensive description of the seismic instrumentation, calibration and processing used in recent years. The present summary includes enough background information on the seismic network and processing to use the data and understand the essentials of how it was gathered.

A report tabulating the instrumentation, calibration and recording history of each seismic station in the network by Klein and Koyanagi is available as a USGS Open-File Report ("Hawaiian Volcano Observatory Seismic Network History 1950-79," U.S.G.S. Open-File Report 80-302, 1980). It is designed as a reference for users of seismograms and phase data, and so includes and expands the information in the station table in this summary.

## CHRONOLOGICAL SUMMARY - 1985

by

Thomas L. Wright

Volcanic Activity. Kilauea's east rift eruption, begun in January 1983 continued throughout 1985 with 11 episodes of high fountaining at the Pu'u 'O'o vent (fig. C-1). Approximately 20 km<sup>2</sup> of area was covered by new lava; most of this was over lava erupted in 1983 and 1984 (fig. C-2). In July, following high fountaining associated with episode 35, a fissure broke uprift of Pu'u 'O'o and built a small pahoehoe shield over a period of three weeks. Following the close of fissure activity, episodic high fountaining continued for the rest of the year. During 1985 the summit of Kilauea gradually deflated (fig. C-1 and C-3) with a net loss of magma volume of .007 km<sup>3</sup>, compared to the normal magma supply rate of .1 km<sup>3</sup>/year. The existence of a local storage reservoir adjacent to Pu'u 'O'o was confirmed by measuring an EDM line and a level line oriented normal to the rift zone and showed inflation between eruptive episodes and deflation during high fountaining. One example of elevation change accompanying inflation-deflation is shown in figure C-4. Figure C-5 shows net changes over the latter half of the year--the large elevation increase is associated with emplacement of a small dike prior to the fissure activity of episode 35.

Mauna Loa (fig. C-6) continued to reinflate following its three-week eruption in March-April 1984. Changes in tilt (fig. C-7) and horizontal displacement (fig. C-8) at Mauna Loa summit are shown from before the eruption to the survey conducted in 1985.

Facilities and Equipment. Two VAX 11-750 minicomputers were installed in February. One of these is dedicated to seismic processing; the other is the primary computer for all other HVO applications. A working version of the Caltech USGS seismic processing System (CUSP), developed by Carl Johnson, was installed in several stages and was operational by the end of the year.

Ground-breaking for the new HVO building took place in April and construction was well ahead of schedule (contract completion date - November 1986) by the end of the year.

Staffing. An organizational chart that applies to HVO during 1985 is shown following the title page. This divides the staff into various volcanologic disciplines and supporting functions and has been useful in preparing annual summaries, budgets, student assignments, etc.

Significant progress was made in converting employees in temporary status to permanent appointments and converting some part-time appointments to full-time appointments. Our goal is to have a core of permanent full-time personnel in all areas of HVO operations who will provide the continuity in years to come. Personnel who left or arrived during 1985 are listed below.

DEPARTURES

<u>Name</u>	<u>Position</u>
John Hoffmann	Geology PST
Craig Crissinger	Geophysics PST
John Dvorak	Deformation - Geophysicist
Jeffrey Judd	Contract: Seismic Record Changing

ARRIVALS

<u>Name</u>	<u>Position</u>
Jeffrey Judd	Contract: Seismic Record Changing
Zoe Jacobi	Contract: Seismic Record Changing
Lu Setnicka	Office

Student appointments in 1985 were as follows:

Minority Program in the Earth Sciences (MPES):

Carl Arakaki - Electronics  
 Jason Takayama       "  
 Renee Ellorda       "  
 Charlotte Forbes - Geochemistry  
 Brian Moniz - Shop  
 Terry Ignacio - Deformation  
 Keone Ah Chong       "  
 Kent Kikuchi       "  
 Lureen Helliangao - Office/Library

Stay-in-School Program:

David Little - Geology

Federal Junior Fellows:

Pauline Tamura - Seismology  
 Nicole Torres - Deformation

National Association of Geology Teachers

Melissa Bode - Seismology  
 Michael Reason - Geology

Figure C-1.

# 1985 SUMMARY - KILAUEA

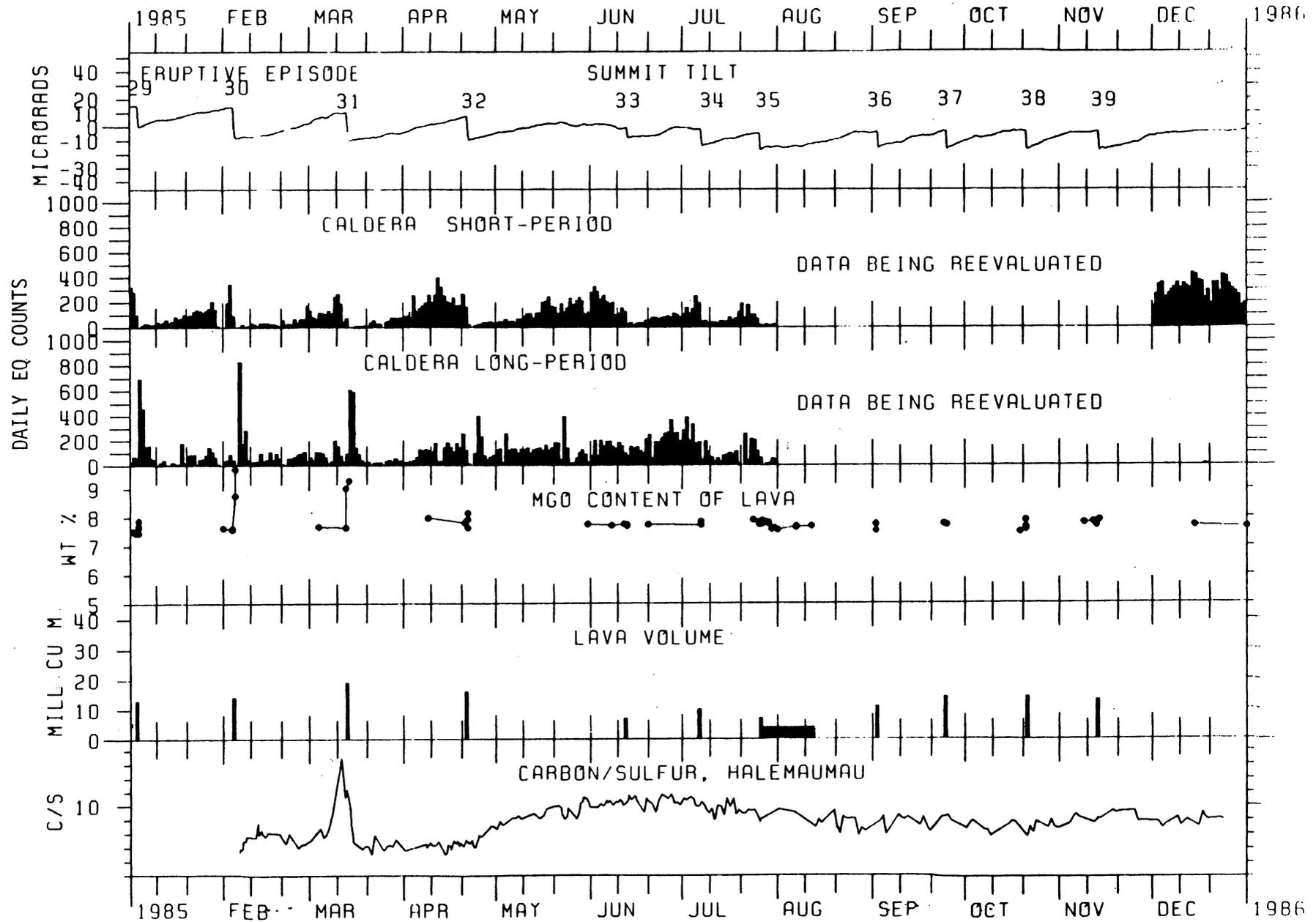
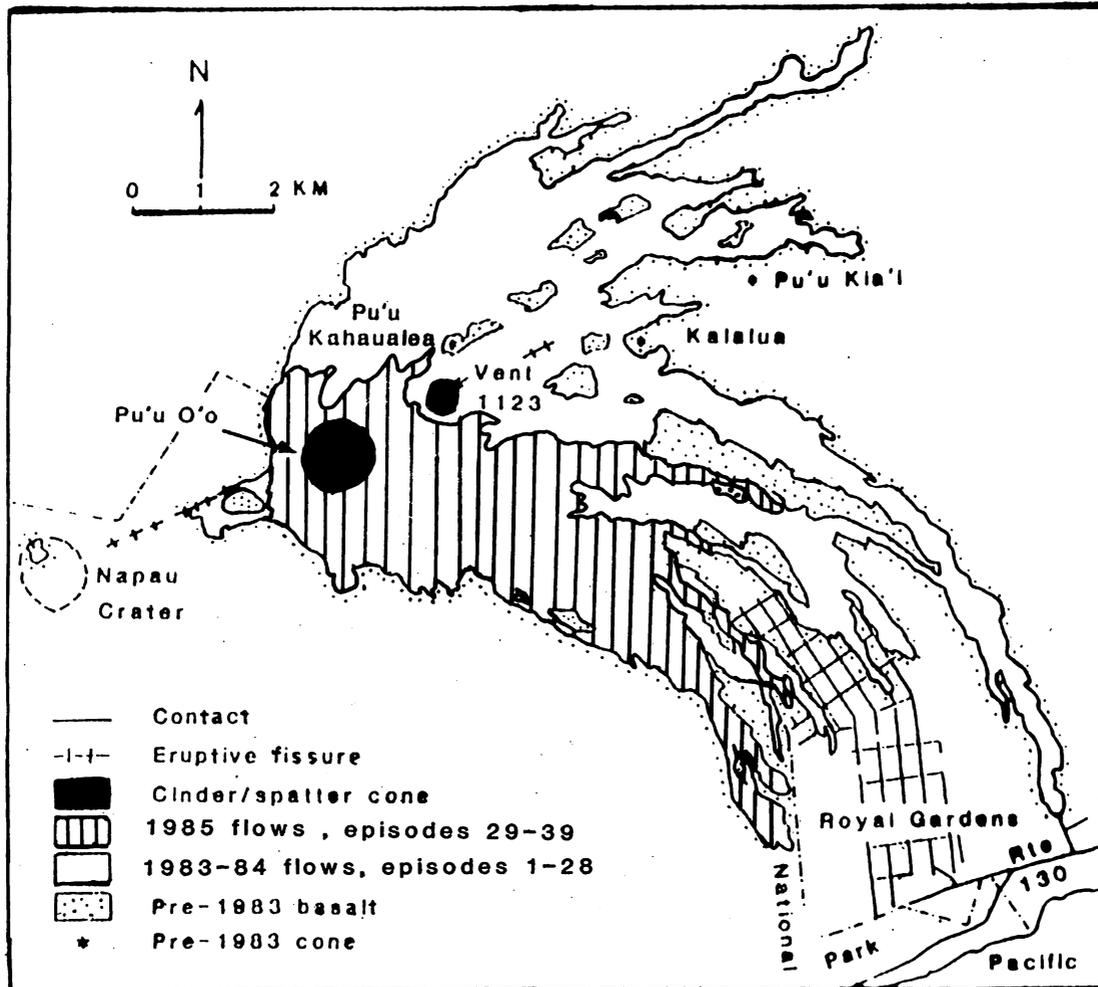


Figure C-2.



5

# KILAUEA SUMMIT SPIRIT-LEVEL TILT RESULTS 7/84 TO 7/85

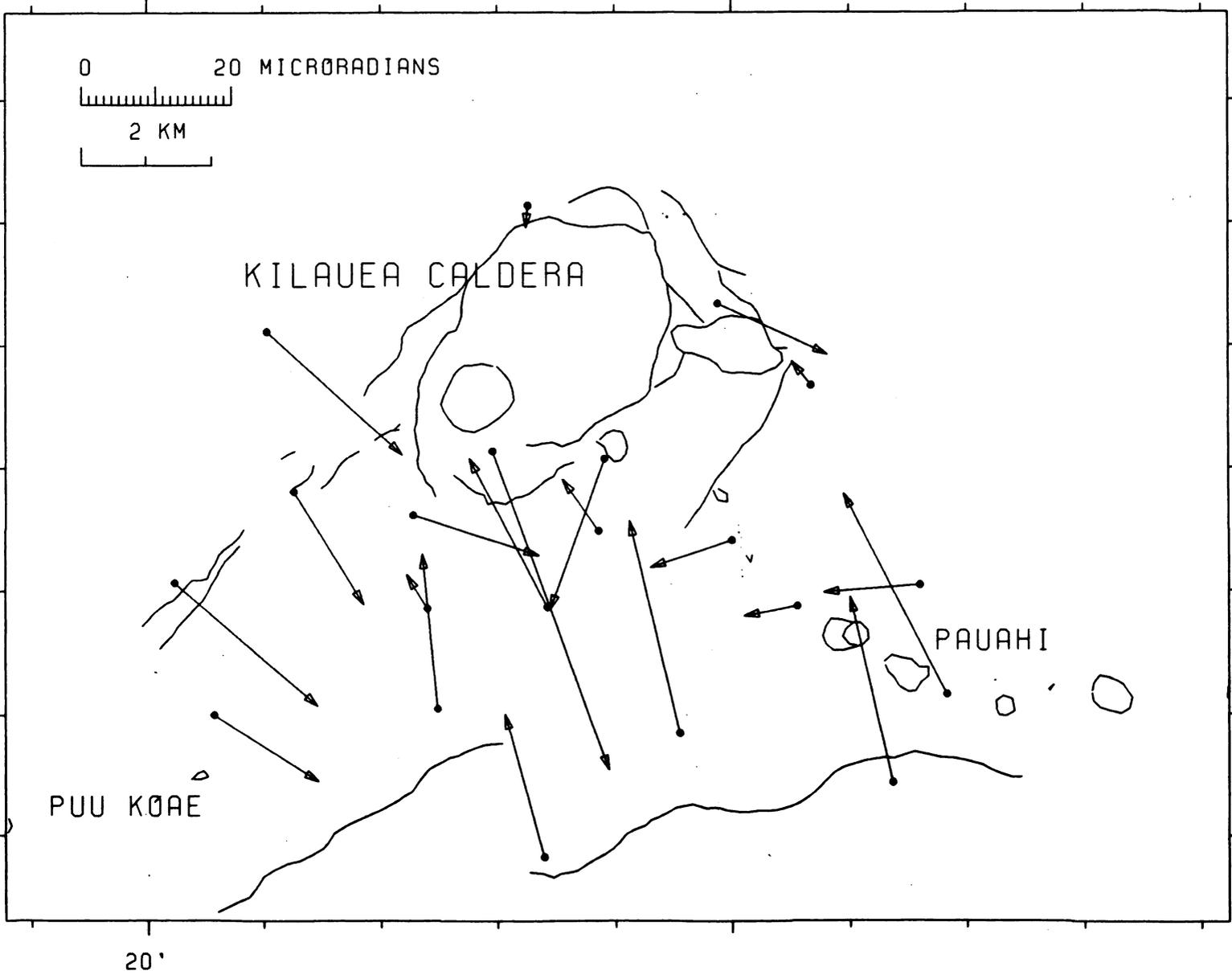
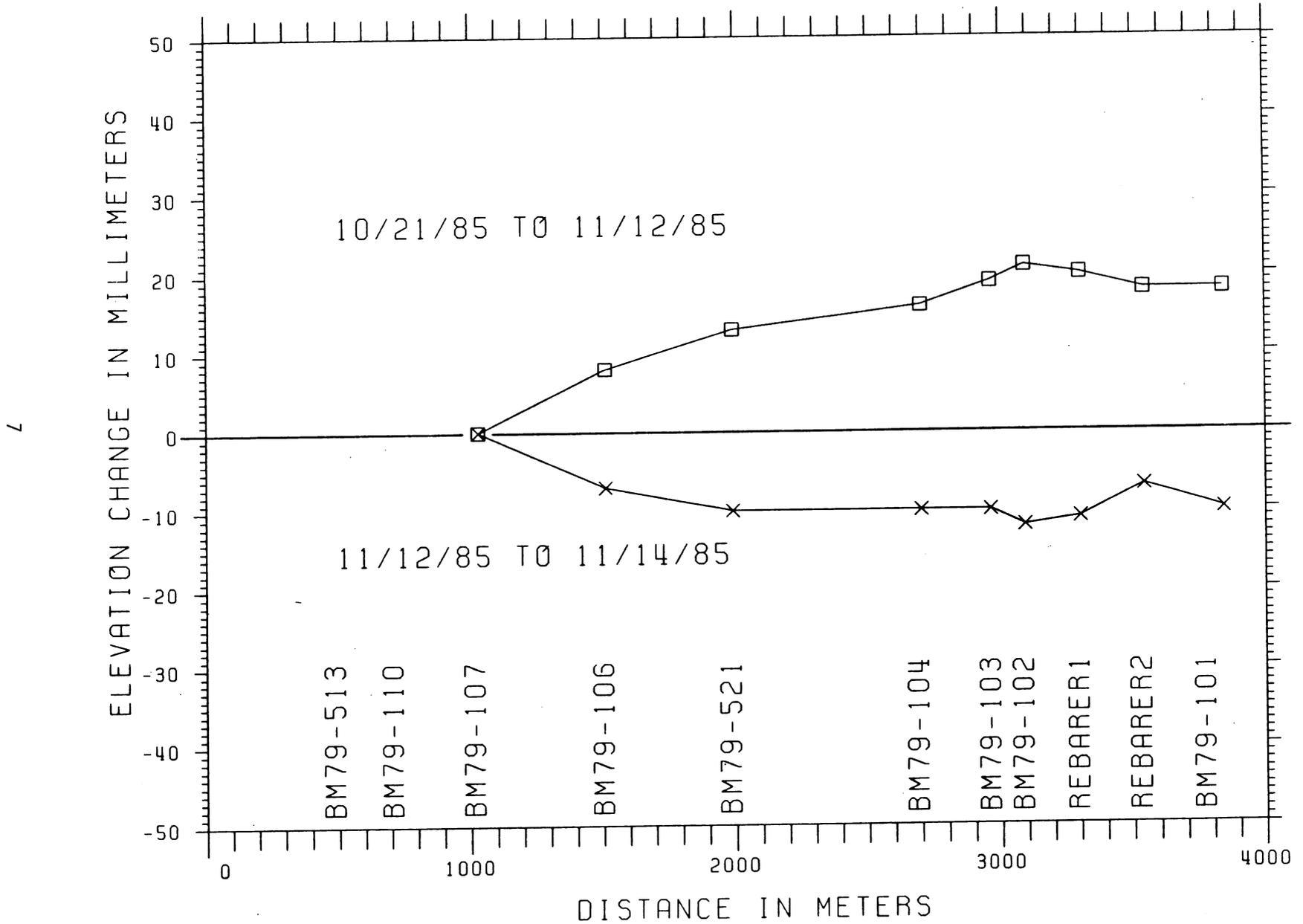


Figure C-3.

Figure C-4.

# ELEVATION CHANGES OF BENCHMARKS AT PUU 0 0



# ELEVATION CHANGES OF BENCHMARKS AT PUU 0 0

7/2/85 TO 12/26/85 -- 7/2/85 TO 1/2/86

8

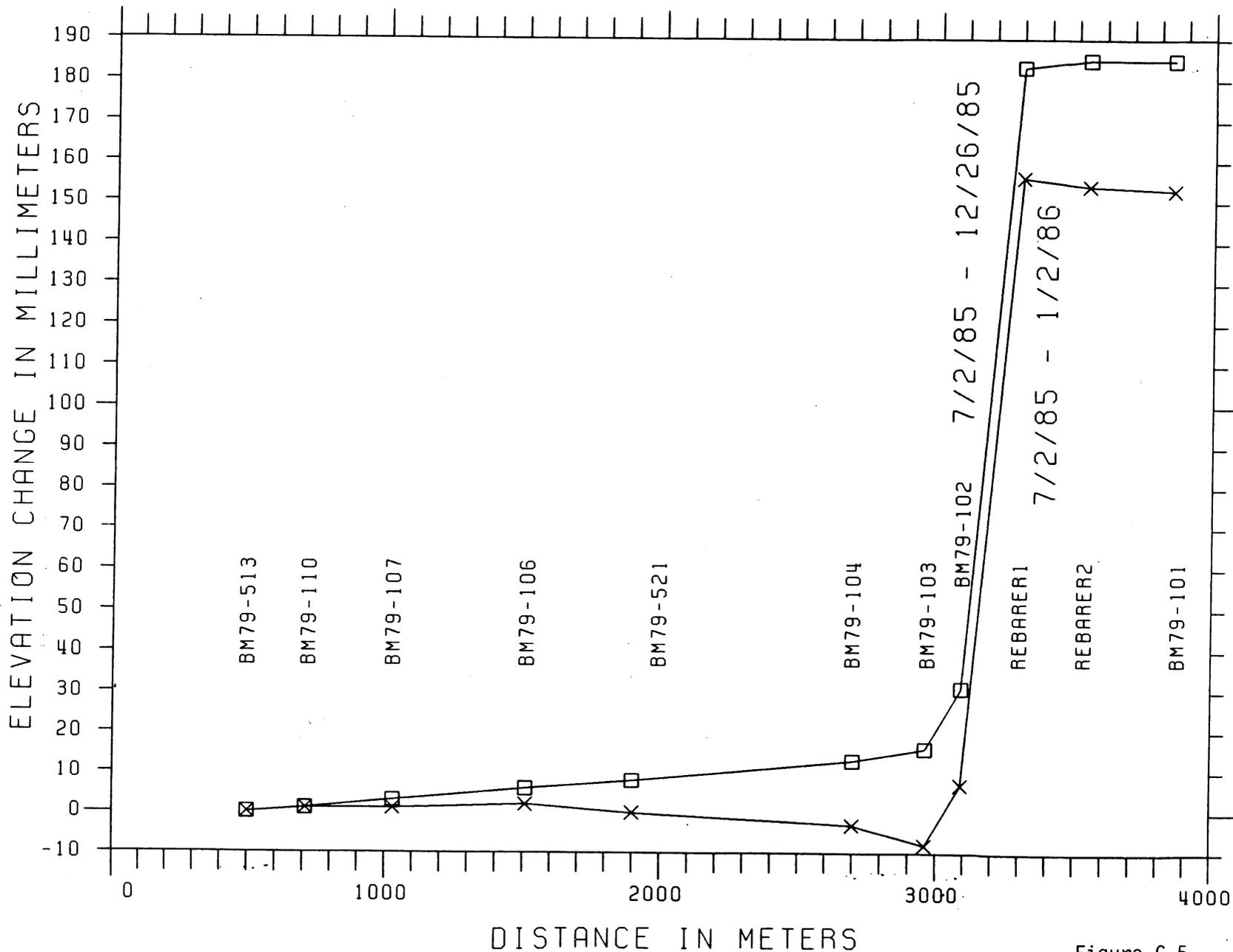


Figure C-5.

# MAUNA LOA SUMMIT PERMANENT GLASS AND MOK #2 DRYTILT STATION LOCATION MAP

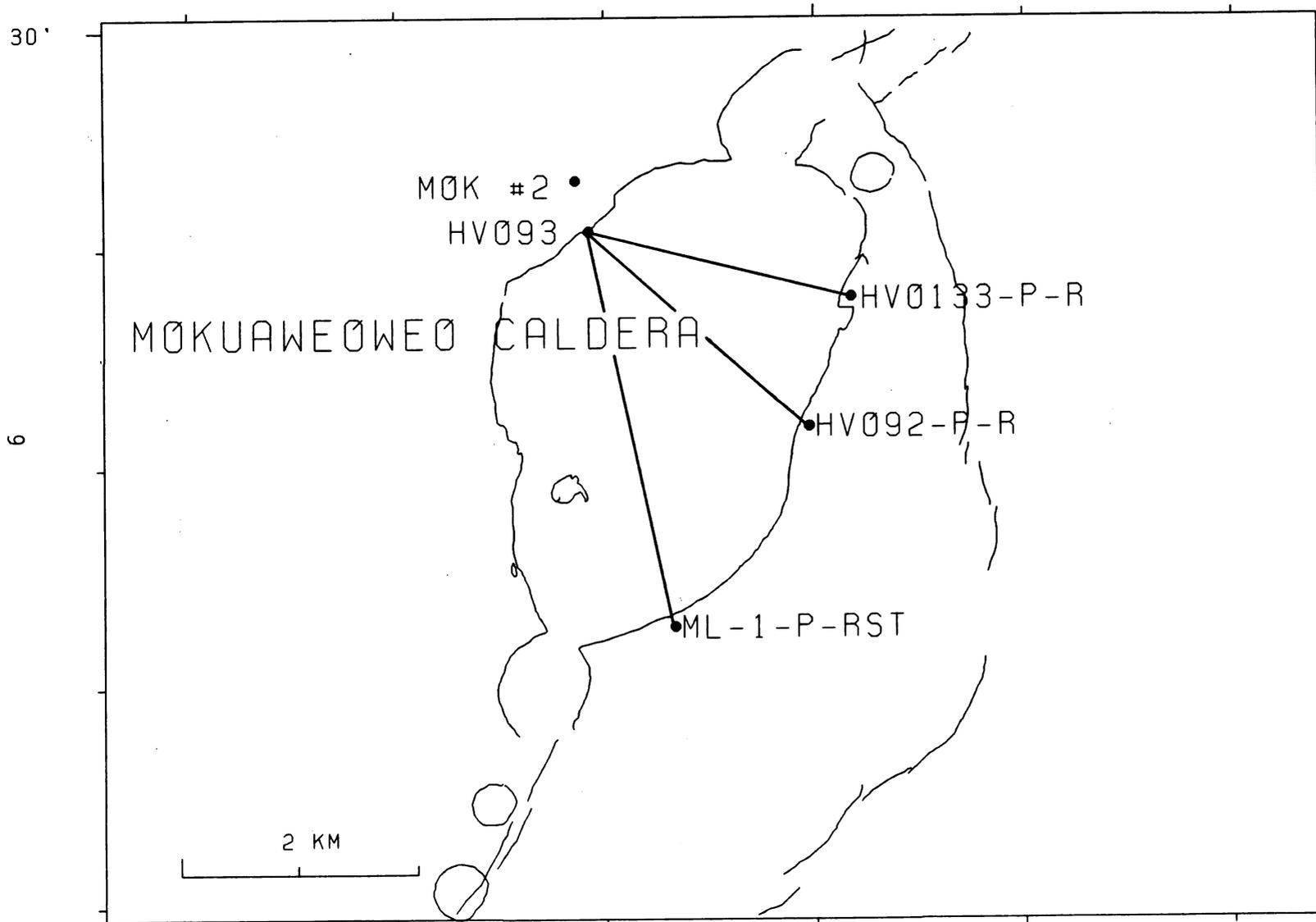


Figure C-6.

PLOT OF N-S AND E-W COMPONENTS OF MOK #2 DRYTILT STATION  
 LOCATED ON THE NORTH EDGE OF MOKUAWEOWEO CALDERA, MAUNA LOA

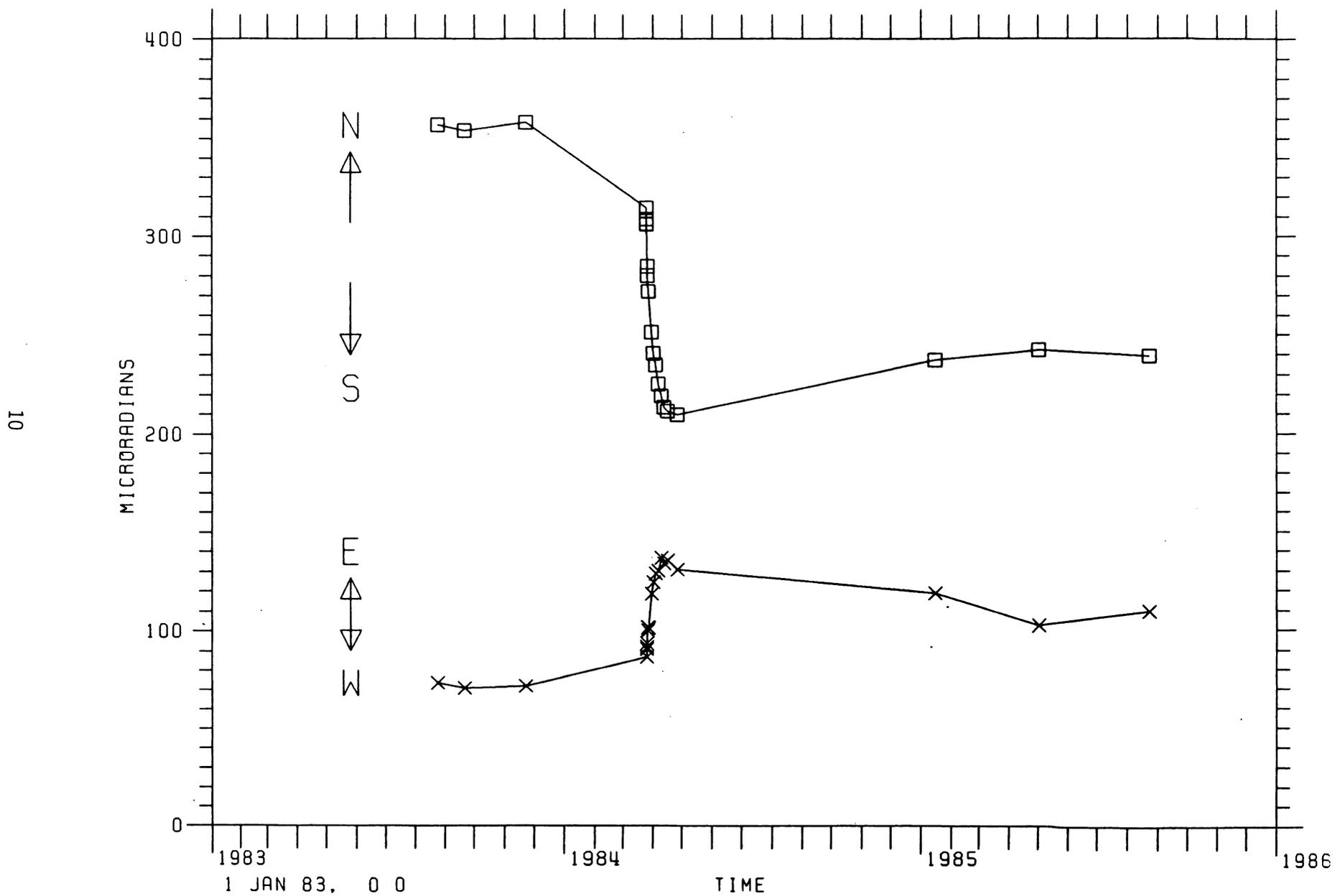


Figure C-7.

# MAUNA LOA SUMMIT PERM EDM LINE LENGTH CHANGES

11

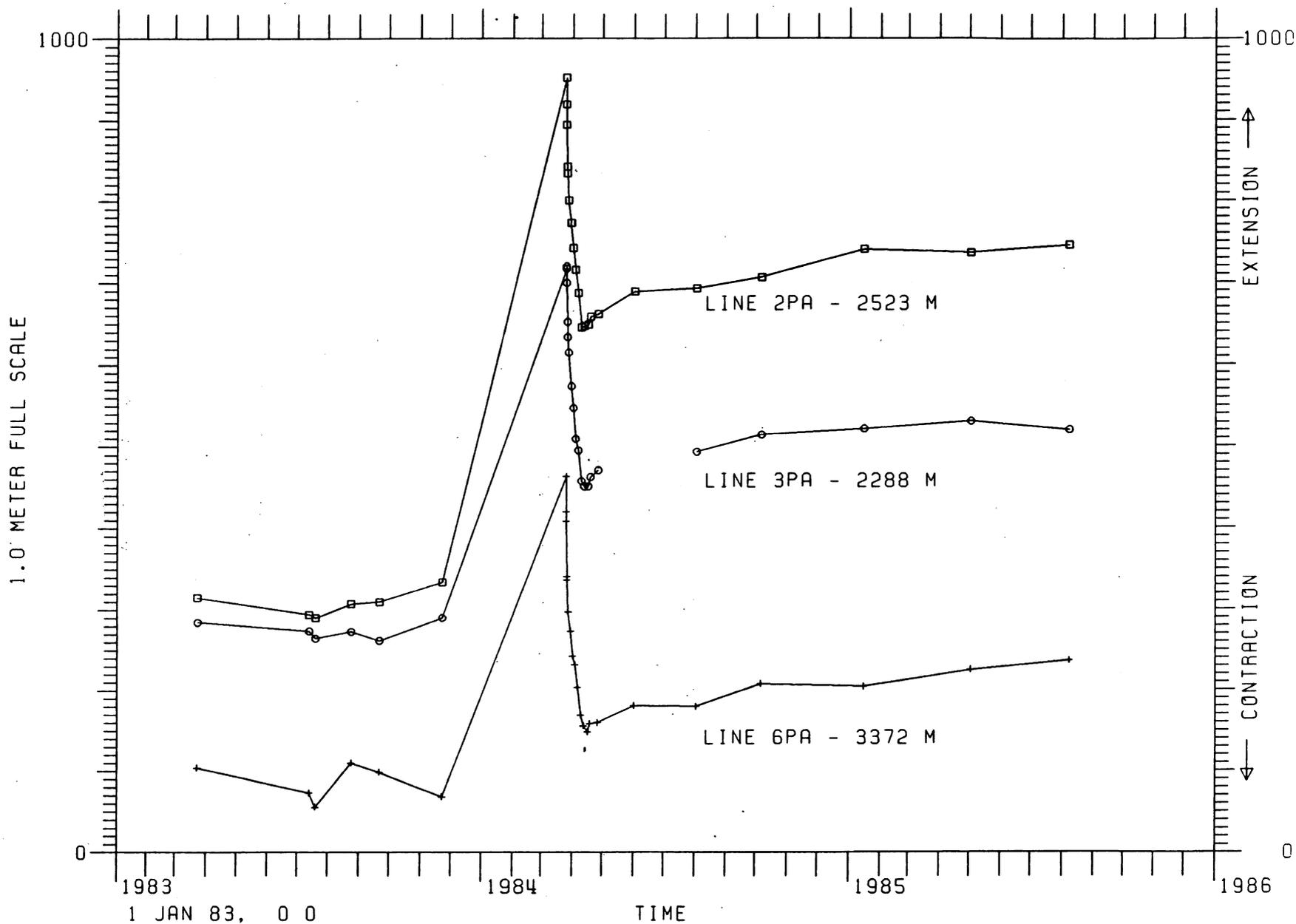


Figure C-8.

## FIGURE CAPTIONS

- C-1. Daily monitoring of stations at Kilauea summit correlated with composition and volume of lava erupted at the Pu'u O'o vent during 11 episodes of high fountaining and one fissure eruption.
- E-W component of tilt measured at Uwekahuna Vault using Ideal-Arrowsmith tiltmeter. Inflation is marked by increase in the tilt values. Numbers refer to eruptive episodes marked by sharp summit deflation.
  - Short period earthquakes measured on the North Pit seismometer, Kilauea summit. Note the correlation of increase in earthquake counts with inflationary tilt preceding eruptive episodes.
  - Long period earthquakes measured on the North Pit seismometer, Kilauea summit. Note increase in earthquake counts accompanying and following eruptive episodes.
  - Composition of erupted lava represented by MgO content. Episodes 30 and 31 showed significant increase in MgO during the eruptive episode correlated with increased amount of olivine in the erupted lava. Composition during other episodes remained constant within and between episodes.
  - Lava volumes. Note positive correlation with amount of deflation at Kilauea summit. Volume for the episode 35 fissure activity averaged over entire episode.
  - Carbon/sulfur atomic ratio measured at a fumarole near Halemaumau Crater. Sharp spike in early March correlated with a burst of intermediate depth tremor. Broad increase in June and July correlated with increased shallow long-period earthquakes (c).
- C-2. Lava erupted in 1985 compared to overall lava production January 1983-December 1985. Episode 35 pahoehoe not shown separately.
- C-3. Kilauea summit tilt pattern July 1984-July 1985. Tilt vectors point toward a center of deflation south of the caldera rim; the southwest rift zone also shows net deflation between Kilauea summit and Pu'u Koae, and the east rift zone shows deflation near Makaopuhi Crater. These deflations are probably associated with increased efficiency of magma transport to Pu'u O'o, resulting in partial draining of the summit and upper rift storage systems.
- C-4. Altitude changes along a cross-rift level line just uprift from Pu'u O'o. North is to the left. Top graph shows inflation following episode 38 and preceding episode 39. Lower graph shows deflation associated with episode 39. Center of inflation-deflation is a broad area extending south of the January 1983 fissure system (BM 79-102).
- C-5. Net altitude changes from the period preceding episode 34 to both before and after episode 40 (January 1, 1986). The great increase in elevation

of stations on and south of the 1983 fissures reflects emplacement of a dike preceding fissure activity of episode 35.

- C-6. Index map to monitoring stations, Mauna Loa summit. Data for the summit dry tilt station MOK #2 are shown in Figure C-7. Data for these cross-caldera EDM lines are shown in Figure C-8.
- C-7. Tilt record at station MOK #2. Mauna Loa summit. Inflation preceding and deflation during eruption of March-April 1984 is shown as a reference to compare reinflation during 1985.
- C-8. Change in straight line distance across Mokuaweoweo caldera, Mauna Loa summit. Extension prior to and contraction during March-April 1984 eruption is shown for comparison with extension (re-inflation) during 1985.

## SEISMIC INSTRUMENTATION

The network. The Hawaiian Volcano Observatory maintains an extensive telemetering seismometer network on the island of Hawaii. In 1985 the seismometer network consisted of 50 stations; two are low-gain multicomponent stations (optical), twelve are three-component, and 36 are vertical only. The coverage is most complete on and around Kilauea Volcano. With the exception of self-contained systems at Uwekahuna and Hilo stations, all seismometer signals from the short period network are telemetered to the observatory for recording.

Figure 1 is a map of selected geographic and geologic features, Figure 2 shows the seismic stations which were operated on the island of Hawaii during the year, and Figure 3 indicates the telemetry scheme for the respective seismic stations. Table 1 lists all seismic stations operated by the U.S. Geological Survey in Hawaii during 1985. Listed are names, three- and four-letter codes, coordinates in degrees and minutes, elevation in meters, and other data as described below pertaining to each station. In addition to seismometers listed in Table 1, a horizontal seismometer of Type 3 and a long-period, three-component set of Press-Ewing seismometers are operated in the Uwekahuna vault, all recorded on photographic paper.

Instrumentation and recording. Each telemetered station has a voltage controlled oscillator (VCO) for FM multiplex transmission to HVO via either hardwire or radio. These telemetering stations are all of Type 1, the OEVE standard system used in USGS seismic networks (see Table 2 for details). After discrimination at the receiver, the analog signals from 36 stations are recorded on two Develocorders using 16mm microfilm. FM signals from the telemetering network are also recorded directly on one-inch magnetic tape. Selected larger events are copied onto condensed FM library tapes which are currently archived in Menlo Park and archived in digital form at HVO as part of the routine location processing. The type of recording used for each station (in addition to magnetic tape for the telemetered stations) is coded in Table 1 as follows: D - Develocorder film, S - smoked paper drum, P - photographic paper, H - Helicorder paper.

In addition to the standard stations, optical drum seismographs are maintained at Uwekahuna (HVO), Hilo, Maui, and on Oahu (Honolulu station operated by the Pacific Tsunami Warning Center). The less sensitive optical records are used primarily for amplitude measurements for magnitude calculations to supplement readings from the high-gain stations. The paper records as well as the 16 mm Develocorder microfilms are archived at HVO.

Seismograph response and calibration. Displacement response curves for the four short-period seismograph types in use are given in Figure 4. Types three and four are electro-mechanical systems recorded on paper records. The Type 1 curve gives the displacement magnification of the standard OEVE system from ground motion at the seismometer to the seismic trace as seen on a 20x Develocorder film viewer. The curves plot the unit response which should be multiplied by a constant but known factor (CAL, Table 1) to get the response for an individual station. Individual CAL factors for Type 1 seismographs are equal to the peak-to-peak amplitude measured in mm on the 20x Develocorder viewer of a 10 microvolt 5 Hz signal introduced to the preamp/VCO in place of the geophone. Calibration is normally done each time a station is visited.

CAL factors range from about 1 to 8, averaging about 4. A detailed history of CAL factors and other data is given in F.W. Klein and R.Y. Koyanagi, Hawaiian Volcano Observatory Seismic Network History 1950-79, U.S. Geological Survey Open-File Report 80-302, 1980.



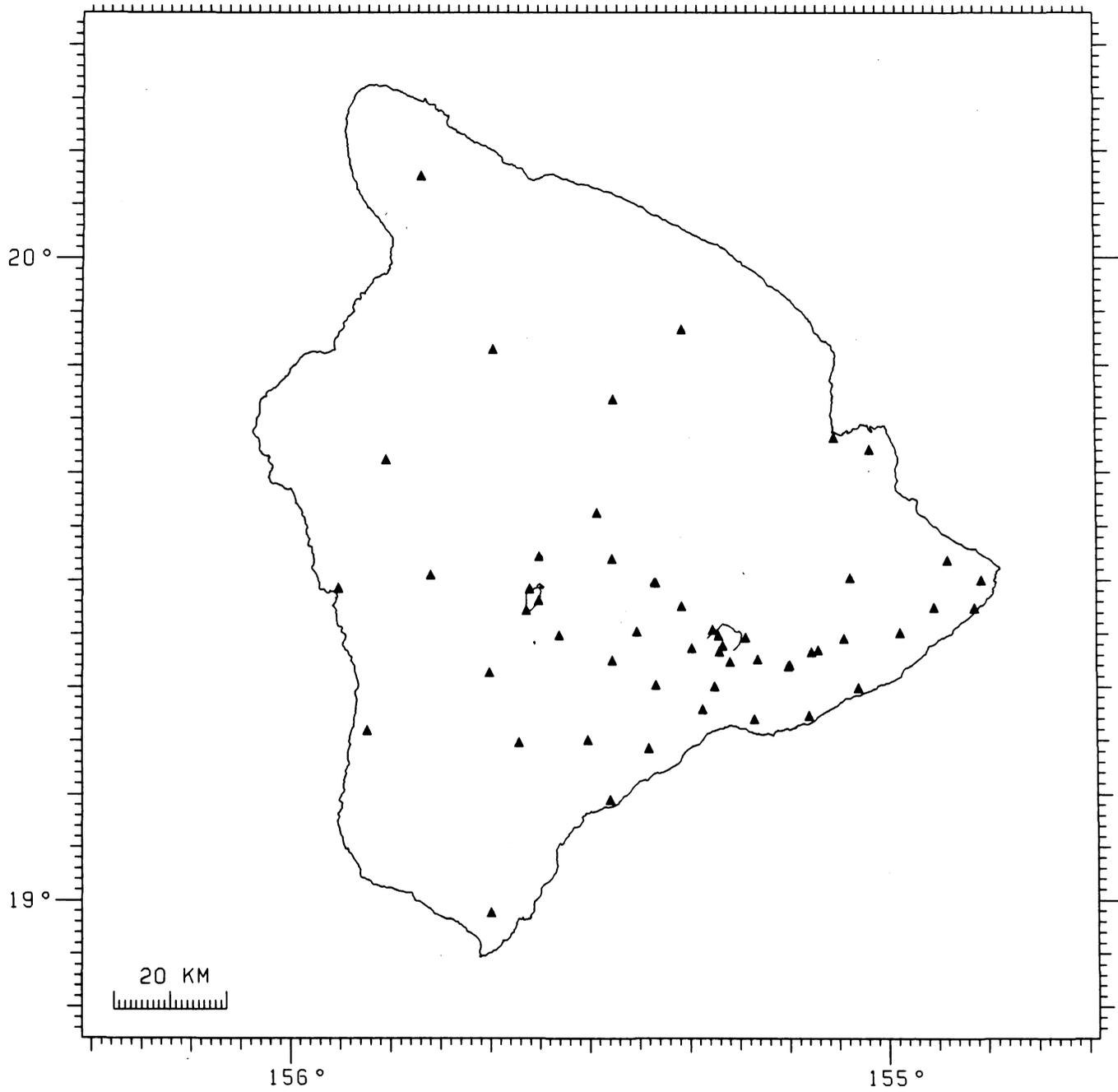


Figure 2. Map of the island of Hawaii showing seismic stations operational during 1985.

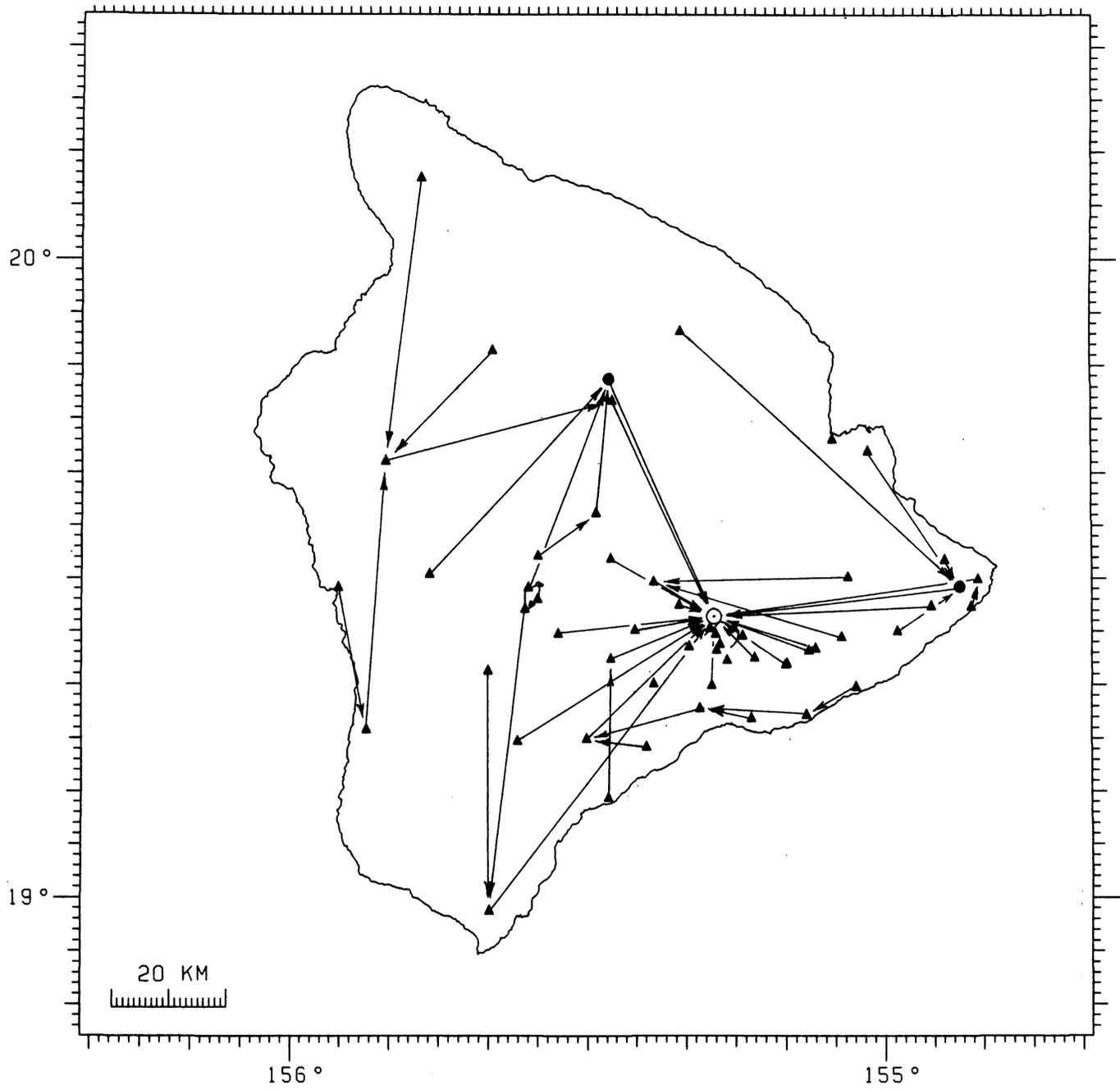


Figure 3. Map of the island of Hawaii showing the telemetry scheme for the Hawaiian Volcano Observatory seismic network.

Legend     $\Delta$  Seismometer location  
            $\circ$  Repeater station

Table 1. Seismometer stations in Hawaii operated by the U.S. Geological Survey, 1985.

STATION NAME	CODE	--LAT--		---LON---		ELEV (M)	DELAY 1	DELAY 2	CAL	SEIS TYPE	OPTIC RECORD
		D	M	D	M						
AHUA	AHU Z	19	22.40	155	15.90	1070	-0.10	-0.13	2.1	E4	SD
AHUA	AHUE E	19	22.40	155	15.90	1070	-0.10	-0.13	3.0	E3	
AHUA	AHUN N	19	22.40	155	15.90	1070	-0.10	-0.13	3.0	E3	
AINAPO	AIN Z	19	22.50	155	27.62	1524	0.13	0.17	5.5	L4	D
AINAPO	AINE E	19	22.50	155	27.62	1524	0.13	0.17	3.0	L3	
AINAPO	AINN N	19	22.50	155	27.62	1524	0.13	0.17	3.0	L3	
CAPTAIN COOK	CAC Z	19	29.29	155	55.09	323	0.00	-0.16	1.1	L3	D
CONE PEAK	CPK Z	19	23.70	155	19.70	1038	-0.26	-0.07	6.0	L4	D
DANDELION	DAN Z	19	21.42	155	40.04	3003	-0.27	-0.03	7.0	L4	D
DESERT	DES Z	19	20.20	155	23.30	815	-0.29	-0.13	3.0	L4	SD
ESCAPE ROAD	ESR Z	19	24.68	155	14.33	1177	-0.17	-0.19	2.2	L4	D
HAWAIIAN BEACHES	HAB Z	19	31.89	154	53.89	92	-0.09	-0.24	1.0	L4	
HALEAKALA, MAUI	HAE E	20	46.00	156	15.00	2090	0.00	0.00	1.0	W	P
HALEAKALA, MAUI	HAL Z	20	46.00	156	15.00	2090	0.00	0.00	0.7	H1	P
HALEAKALA, MAUI	HAN N	20	46.00	156	15.00	2090	0.00	0.00	1.0	W	P
HILO	HIE E	19	43.20	155	5.30	20	0.54	0.30	1.0	W	P
HILO	HIL Z	19	43.20	155	5.30	20	0.54	0.30	1.0	H1	P
HILO	HIN N	19	43.20	155	5.30	20	0.54	0.30	1.0	W	P
HILINA PALI	HLP Z	19	17.96	155	18.63	707	0.02	0.07	2.6	L4	D
HONOLULU, OAHU	HON Z	21	19.30	158	0.50	2	0.00	0.00	0.0	H1	P
HALE POHAKU	HPU Z	19	46.85	155	27.50	3396	0.31	0.17	3.3	L4	D
HUMUULA SHEEP ST	HSS Z	19	36.31	155	29.13	2445	0.20	0.35	5.3	L4	D
HUMUULA SHEEP	STHSSE E	19	36.31	155	29.13	2445	0.20	0.35	3.0	L3	
HUMUULA SHEEP	STHSSN N	19	36.31	155	29.13	2445	0.20	0.35	3.0	L3	
HOT CAVES	HTC Z	19	14.33	155	24.02	381	-0.16	-0.07	0.0	E4	
HUALALAI	HUA Z	19	41.25	155	50.32	2189	0.67	0.38	3.0	L4	D
HEIHEIAHULU	HUL Z	19	25.13	154	58.72	369	-0.17	-0.16	1.6	L4	DS
HEIHEIAHULU	HULE E	19	25.13	154	58.72	369	-0.17	-0.16	3.0	L4	
HEIHEIAHULU	HULN N	19	25.13	154	58.72	369	-0.17	-0.16	3.0	L4	
KAAPUNA	KAA Z	19	15.98	155	52.28	524	-0.12	-0.01	3.5	L4	D
KAONA POINT	KAE Z	19	17.35	155	7.95	37	-0.01	0.06	1.4	L4	D
KAHAUALEA	KAH Z	19	24.58	155	4.36	625	-0.25	-0.30	0.0	L4	D
KAOIKI FAULTS	KFA Z	19	25.26	155	25.14	1579	0.13	0.17	0.0	E3	
KAHUKU	KHU Z	19	14.90	155	37.10	1939	0.03	-0.03	2.7	E4	D
KANEKII	KII Z	19	30.56	155	45.90	1841	0.15	0.37	2.9	E4	D
KANEKII	KIIE E	19	30.56	155	45.90	1841	0.15	0.37	3.0	L3	
KANEKII	KIIN N	19	30.56	155	45.90	1841	0.15	0.37	3.0	L3	
KEANAKOLU	KKU Z	19	53.39	155	20.58	1863	0.68	0.24	3.3	L4	D
PUU KALIU	KLU Z	19	27.48	154	55.26	271	-0.17	-0.30	2.9	L4	D
KAMOAMOA	KMM Z	19	23.47	155	6.98	750	-0.25	-0.30	2.4	L4	D
KAMOAMOA	KMME E	19	23.47	155	6.98	750	-0.25	-0.30	3.0	L4	
KAMOAMOA	KMMN N	19	23.47	155	6.98	750	-0.25	-0.30	3.0	L4	
KOHALA	KOH Z	20	7.69	155	46.77	1166	-0.03	-0.17	1.5	L4	D
KOHALA	KOHE E	20	7.69	155	46.77	1166	-0.03	-0.17	2.2	L4	
KOHALA	KOHN N	20	7.69	155	46.77	1166	-0.03	-0.17	2.2	L4	
KIPUKA NENE	KPN Z	19	20.10	155	17.40	924	-0.11	-0.08	3.5	E3	D
KAPOHO	KPO Z	19	30.02	154	50.51	134	-0.09	-0.24	2.5	L4	DH
MAUNA LOA	MLO Z	19	29.80	155	23.30	2010	0.03	0.08	5.8	L4	SD
MAUNA LOA	MLOE E	19	29.80	155	23.30	2010	0.03	0.08	0.0	L4	D
MAUNA LOA	MLON N	19	29.80	155	23.30	2010	0.03	0.08	1.5	L4	
MAUNA LOA X	MLX Z	19	27.60	155	20.70	1475	0.06	0.15	3.0	L4	
MOKUAWEOWEO	MOK Z	19	29.28	155	35.98	4104	0.15	0.16	5.5	L4	DH
MAKAOPUHI	MPR Z	19	22.07	155	9.85	881	-0.17	-0.20	4.2	L4	D
MOUNTAIN VIEW	MTV Z	19	30.25	155	3.75	409	-0.02	0.01	5.0	E4	D
NATIONAL GUARD	NAG Z	19	42.12	155	1.72	18	0.54	0.30	3.2	E4	D
NORTH PIT	NPT Z	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	E4	SD
NORTH PIT	NPTE E	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	E4	
NORTH PIT	NPTN N	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	E4	
OUTLET	OTL Z	19	23.38	155	16.94	1038	-0.19	-0.18	4.9	L4	
PAUHI	PAU Z	19	22.62	155	13.10	994	-0.21	-0.24	2.4	L4	SD
PAUHI	PAUE E	19	22.62	155	13.10	994	-0.21	-0.24	3.0	L3	
PAUHI	PAUN N	19	22.62	155	13.10	994	-0.21	-0.24	3.0	L4	
PUU ULAULA	PLA Z	19	32.00	155	27.67	2992	0.03	0.13	5.4	L4	D

Table 1. (continued)

POHOIKI	POI Z	19	27.42	154	51.22	16	-0.09	-0.24	0.0	L4	
POLIOKEAWE PALI	POL Z	19	17.02	155	13.47	169	-0.02	0.03	2.8	E4	D
PUU PILI	PPL Z	19	9.50	155	27.87	35	-0.15	-0.15	1.7	E4	D
RIM	RIM Z	19	23.90	155	16.60	1128	-0.21	-0.13	0.0	L3	
SOUTH POINT	SPT Z	18	58.91	155	39.92	244	-0.17	-0.22	2.8	L4	D
SOUTH POINT	SPTE E	18	58.91	155	39.92	244	-0.17	-0.22	3.0	L4	
SOUTH POINT	SPTN N	18	58.91	155	39.92	244	-0.17	-0.22	3.0	L4	
STEAM CRACKS	STC Z	19	23.30	155	7.67	765	-0.25	-0.30	2.4	L4	D
STEAM CRACKS	STCE E	19	23.30	155	7.67	765	-0.25	-0.30	3.0	L3	
STEAM CRACKS	STCN N	19	23.30	155	7.67	765	-0.25	-0.30	3.0	L3	
SOUTHWEST RIFT	SWR Z	19	27.26	155	36.30	4048	0.01	0.04	5.6	E4	D
TRAIL	TRA Z	19	24.91	155	32.96	3207	0.00	0.00	0.0	L4	
UWEKAHUNA	UEE E	19	25.40	155	17.60	1240	-0.21	0.00	2.5	E	
UWEKAHUNA	UEN N	19	25.40	155	17.60	1240	-0.21	0.00	2.5	E	
UWEKAHUNA	UEZ Z	19	25.40	155	17.60	1240	-0.21	0.00	2.5	E	
WAIKII	WAI Z	19	51.58	155	39.60	1433	0.20	0.35	0.0	L4	
WAHAULA	WHA Z	19	19.90	155	2.92	29	-0.10	-0.04	1.5	E4	D
WILKES CAMP	WIL Z	19	28.15	155	35.02	4037	0.22	0.17	2.6	E4	D
WILKES CAMP	WILE E	19	28.15	155	35.02	4037	0.22	0.17	0.0	L3	
WILKES CAMP	WILN N	19	28.15	155	35.02	4037	0.22	0.17	0.0	L3	
WEATHER OBSERVAT	WOB Z	19	32.31	155	35.01	3396	0.00	0.00	0.0	E4	
WOOD VALLEY	WOO Z	19	15.08	155	30.12	909	-0.15	-0.06	4.6	E4	D

Table 2. Seismic Instrumentation Types

The codes in parentheses refer to the seismometer types listed in Table 1.

Type 1. (Codes E, L, 3 and 4) Consists of:

- a) Geophone - Electrotech EV-17 (E) or Mark Products L4C (L) 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 - USGS/OEVE Model J302 (3) or J402 (4) voltage controlled oscillator. Three 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 instruments have been discontinued.

Type 3. (Code H1) Consists of:

Electrotech EV-17 or observatory-built 0.8 sec. period moving coil seismometer with HVO-built solid state seismic preamplifier, galvanometer driver, and 2 Hz galvanometer. Peak magnification approximately 40,000 at 4 Hz.

Type 4. (Code S) 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.

Code (W) is a Wood-Anderson torsion seismograph.

Code (MW) is a horizontal component seismograph based on a Type 1 system and modified to a Wood-Anderson response.

Codes (TE) and (S5) are experimental seismometers.

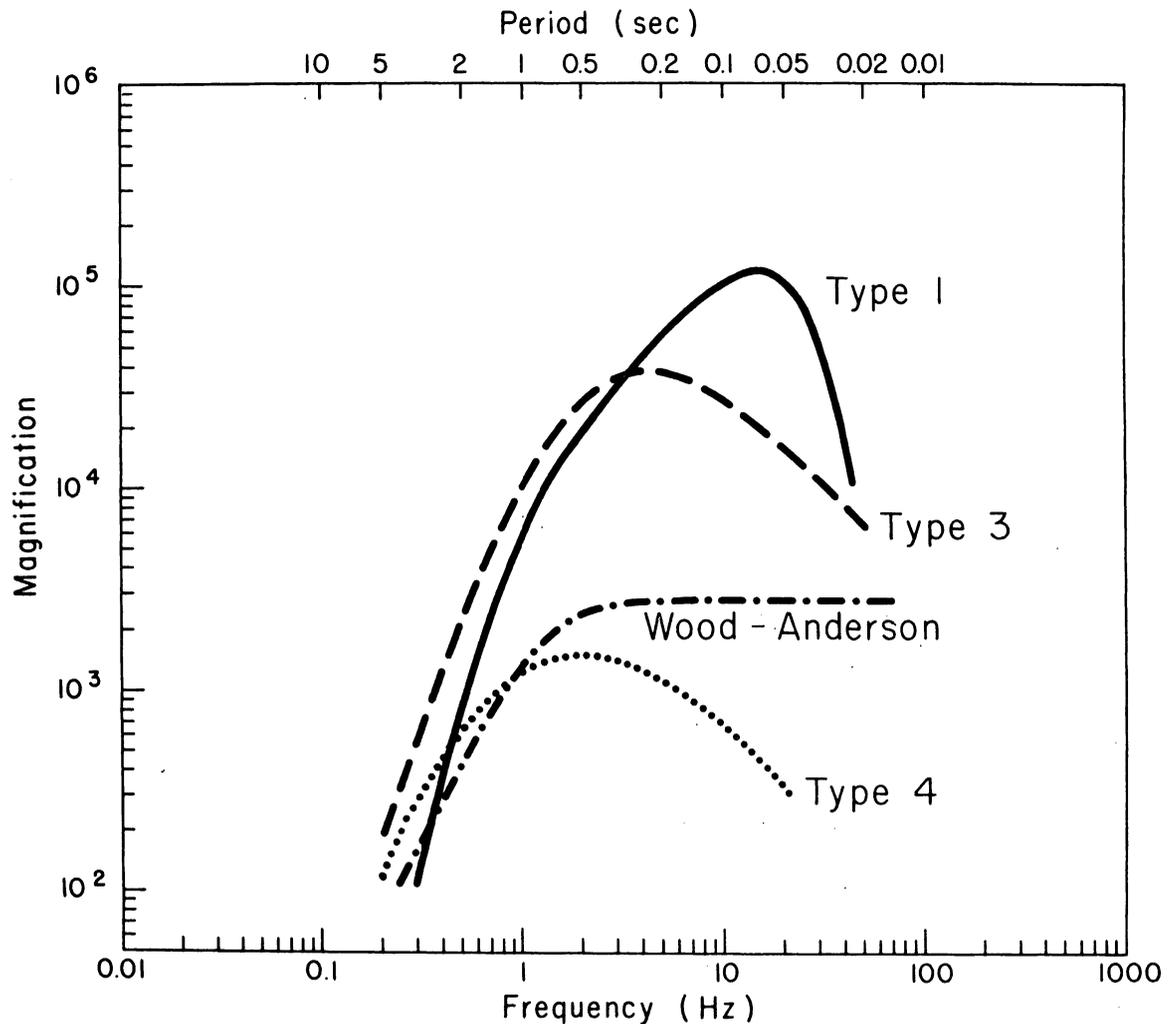


Figure 4. System response curves for the Wood-Anderson torsion seismograph and for the three different types of seismometers in use by the Hawaiian Volcano Observatory. Types 3 and 4 are electro-mechanical seismographs recorded optically on photographic paper. Type 1 is the standard OEVE seismometer system recorded on Develocorder film and magnetic tape. The curve for Type 1 includes response of the geophone, all electronics including telemetry, Develocorder galvanometer, and projection of film by a 20x viewer. The curves plot the unit response which should be multiplied by a constant but known factor (CAL), to get the response for an individual station.

## SEISMIC DATA PROCESSING

Develocorder films are scanned on a daily basis for earthquakes and coda durations are measured for magnitude determination. Events are digitized, timed, and located on the Eclipse computer at HVO. Computer locations are made using the program HYPOINVERSE (Klein, F.W., Hypocenter location program HYPOINVERSE, U.S.G.S. Open-File Report 78-694, 1978), and problem events are reread and rerun. Magnetic tape copies of all arrival times and output summary data are kept in Menlo Park and HVO.

The crustal model used is specified by velocities at four depth points. Velocity at any depth is given by linear interpolation between points and uses a homogeneous half-space below.

<u>VELOCITY</u> (km/sec)	<u>DEPTH (km)</u>
1.9	0.0
6.5	4.6
6.9	15.0
8.3	16.5

Two empirical sets of station delays or corrections were used in the locations, and are given in Table 1. Delay model 1 is used for events on Kilauea and its south flank, and delay model 2 applies to the rest of the island and offshore earthquakes. The delay models are separated by a circle of radius 34 km centered at 19°22'N and 155°10'W.

Magnitudes for most events were computed using both recorded amplitudes on low gain or Wood-Anderson stations, and signal or coda duration on selected short-period vertical stations. Amplitudes read from other than Wood-Anderson instruments are corrected to an equivalent Wood-Anderson amplitude using the curves of Figure 3 and CAL factors. Amplitude magnitudes larger than 2.5 are generally based on the Wood-Anderson instruments in Hilo or Type 4 seismographs at Uwekahuna. Smaller events may occasionally include amplitude readings from stations AHU, OTL, PPL, KHU, or WIL.

Duration magnitudes are determined from the length of signal in seconds read from the Develocorder viewer. This length of time, also called the "F-P time," is measured from the P arrival to the point where the earthquake signal has decayed nearly to the noise level. A bilinear relation is an appropriate fit to the data sample and is used to compute all duration magnitudes. Duration times are only read from Type 1 seismographs. Because duration magnitudes are relatively insensitive to station response and can be determined using the high-gain short-period stations, it is felt that duration magnitudes are more accurate and complete at the lower magnitudes (below 2).

The equations used in magnitude determination are:

$$\begin{aligned} \text{duration} < 210 \text{ sec} & \quad M = -5.2 + 3.89 \log (F-P) + .013 Z + .0037 D \\ \text{duration} > 210 \text{ sec} & \quad M = -.905 + 2.026 \log (F-P) + .013 Z + .0037 D \end{aligned}$$

where Z and D are the depth and epicentral distance in km, respectively.

## SEISMIC SUMMARY

The emphasis in both station coverage and detailed data analysis is on the highly active south half of the island of Hawaii. Hundreds of earthquakes too small to locate are classified generally and counted daily. The set of well-recorded earthquakes located in the Hawaii Island region is nearly complete above magnitude 2.0. Many smaller events are located in the densely instrumented Kilauea area. Substantial effort is made to locate earthquakes elsewhere within the Hawaiian Archipelago. Such coverage cannot be as complete as on the south flank, but nearly all events above magnitude 4.0 are located with limited precision.

Data presented in the seismic summary is in four parts: 1) Table 3 gives duration of harmonic tremor and numbers of earthquakes (most too small to locate) from several source regions around Kilauea and Mauna Loa. The source region is determined visually from signal character and pattern of arrival times at key stations. 2) Maps showing computer located hypocenters are given in Figures 9-22. The location maps are of different scales and provide hypocenters with magnitude thresholds set at 1.0, 2.0, 3.0 and 3.5 varied according to region. 3) The list of computer locations constitutes the bulk of this summary, and is given in Table 5. Each earthquake in the list is assigned a three-letter code based on its location and depth. Figures 5-8 are maps of the regions used to assign the location codes. The latitude and longitude limits of rectangular regions are listed Table 4. When the listed coordinates imply an overlap, precedence is given according to Figures 5-8. 4) Table 6 relists the events in Table 5 for which either duration or amplitude magnitude is 3.0 or larger. This list includes many of the earthquakes felt in Hawaii.

Table 3. Number of earthquakes and minutes of tremor recorded on seismographs around Kilauea and Mauna Loa.

Earthquake categories are:

- 1) Kilauea summit, short period caldera: shallow earthquakes beneath the caldera.
- \*2) Kilauea summit, long period caldera A: earthquakes characterized by low frequency signatures of 3 to 5 Hz, often originating 0-5 km beneath the summit.
- \*3) Kilauea summit, long period caldera B: earthquakes characterized by low frequency signatures of 1 to 3 Hz, often originating 0-5 km beneath the summit.
- \*4) Kilauea summit, long period caldera C: earthquakes characterized by low frequency signatures of 1 to 5 Hz, often originating 5-12 km beneath the summit.
- 5) Kilauea summit 30 km: deep earthquakes about 30 km beneath the summit region.
- 6) Kaoiki and southwest rift: earthquakes beneath the southwest rift of Kilauea, western parts of the Koaie faults, and adjacent Kaoiki fault system.

- \* Jan to May - Long period caldera earthquakes counted in a single category.  
Jun to Dec - Long period caldera earthquakes categorized into A, B, or C.

Table 3. (Continued)

- 7) Upper east rift: earthquakes in the upper and middle east rift zones, the adjacent parts of the south flank, and eastern parts of the Koae faults.
- 8) Lower east rift: earthquakes in the lower east rift zone and adjacent parts of the south flank.
- 9) Mauna Loa short period: shallow earthquakes in the Mauna Loa summit region.
- 10) Mauna Loa long period: earthquakes characterized by the low frequency signatures near Mauna Loa summit.
- 11) Mauna Loa northeast rift: earthquakes beneath the northeast rift zone of Mauna Loa.
- 12-15) Tremor is separated into four categories: shallow, intermediate, and deep Kilauea, and Mauna Loa. Depth is inferred on the basis of relative amplitudes on seismographs.

The criteria for Kilauea shallow tremor has been changed to accommodate the ongoing eruption where tremor in the middle east rift zone was continuous. Distinction was made between high amplitude tremor related to strong eruptive periods and low amplitude tremor during periods with no lava production. Only minutes of tremor at saturated levels recorded locally at KMM (later STC) is included in Table 3.

DATE 1985	KILAUEA SUMMIT			KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)			
	SHORT PER.	LONG CALDERA	PERIOD	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA		MAUNA LOA
	CALD.	A	B C		RIFT	RIFT	RIFT				SHAL.	INT.	DEEP
JAN 1	319	24			46	135	12	4	18	15	1440		4
2	281	72			36	67	7	3	14	13			
3	101	65			29	67	12	7	8	4	919		
4	4	690			45	39	3	7	1	8			
5	18	458		1	47	48	8	7	1	16			
6	32	155		1	35	86		3	2	13			5
7	28	162			52	111	8	4	3	44			
8	21	56			86	122	8	2		56			
9	26	52			57	95	14	4	1	44			4
10	42	8			53	47	11	3	1	14			
11	32	25			45	112	6	1	1	40			
12	39	42			50	100	9			34			
13	61	7			9	46		2	1	6			
14	34	7			20	48	5	1					
15	44	23		1	36	100	3			3			
16	86	12			36	116	4	4	1	33			31
17	68	14			30	38	3	3	7	39			120
18	75	180			28	65	2			20			5
19	106	24			44	92	9	5	3	21			
20	95	83			59	157	12	6		79			
21	100	88			51	247	11	7	1	31			
22	129	88			44	166	10	4	1	36			
23	142	10			31	204	9	2	1	10			
24	132	50			43	280	7			30			
25	125	53			40	271	7	2	1	35			
26	136	83			60	170	16	2	4	50			
27	152	148			48	212	13	2	3	76			
28	207	110			43	177	4	5	2	30			
29	148	69			43	124	4	2	4	27			
30	12	12			31	113	13			8			

DATE	KILAUEA SUMMIT			SO KM	KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)		
	SHORT PER.	LONG CALDERA	PERIOD		KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA		MAUNA LOA
	1985 CALD.	A	B C		RIFT	RIFT	RIFT	PER.	PER.	RIFT	SHAL.	INT.	DEEP
JAN31	1				25	51	6			4			
FEB 1	1	33			38	69	6	3	1	3			
2	196	47			49	95	12	6	12	18			
3	344	91		1	37	85	16	5	4	25	100		2
4	95	49			26	44	11	3	2	27	1121		
5	5	9			41	52	9	7		23			4
6	7	826			45	45	4	2	5	47			
7	24	181			53	132			1	16			
8	7	285			41	116	5	3	3	77			
9	12	45			31	171	6	3	4	105			
10	35	29			33	192	3	1	1	129			
11	26	31		1	58	133	10	3	1	97			
12	13	35			58	91	5	1	5	93			
13	38	98			48	48	12	2	1	34		7	
14	35	33			43	58	13	1		15			
15	37	48		1	31	48	7	5		51			
16	29	109			33	51	4	3		25			4
17	29	48		1	43	38	4	4	1	35			
18	21	97			48	43	7	2	5	141			5
19	16	55			37	51	8		3	153			
20	62	14			47	55	12		2	38			
21	25	7			91	223	1	4		9			
22	32	55			36	131	7	8	5	71			7
23	27	61			39	94	5	6	5	93			
24	66	74		1	43	98	6	3	5	131			
25	37	95			42	79	8	1	7	98			
26	66	98			46	81	4	3	2	104			
27	68	114			31	86	5		2	37			
28	176	37			31	47	4	6		9			
MAR 1	140	67			37	57	1	7		5			
2	83	48			30	39	4	11		3			6
3	73	110			30	61	8	7	2	123			4
4	125	108			28	59	3	9	6	124			7
5	120	104			32	57	7	2	2	66			6
6	114	70			24	29	4	2	1	9			11
7	133	18		1	11	42		4		9			
8	117	38			23	27	9	4	2	75			5
9	247	200			34	71	11	6		125			6
10	265	156		1	42	79	4	9		122			24
11	190	78			22	41	5	5	6	60			
12	46	31			32	36	3	4	7	119	120		
13	76	104			17	19	6	1	2	14	1260	34	
14	6	607			18	23	7	5	8	5		3	
15	8	592			25	22	2	5		4		6	
16	16	146			29	36	10	1	2	13			
17	16	94			35	34	10	14	1	108			
18	13	43		1	38	29	13	14	4	117			
19	17	27			37	43	8	8	4	117			32
20	14	28			28	40	9		9	115	4		6
21	40	4			41	106		4		15			

KILAUEA SUMMIT			KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)								
DATE 1985	SHORT PER. CALD.	LONG CALDERA A	PERIOD			30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA			MAUNA LOA	
			B	C									SHAL.	INT.	DEEP		
MAR	22	56	20				42	40	2	9	2	86					2
	23	31	23				38	37	7	6	1	147					
	24	31	25			1	27	27	5	3	4	147					
	25	4	8				18	37			1	63				23	
	26	45	33				22	71	9	1		115					
	27	54	46		1		38	58	8	5	1	142					
	28	77	31			1	53	61	6	2	1	47		4			
	29	78	57				33	64	12	3	4	38					
	30	79	40				50	69	11	1		50					
	31	79	41				50	73	5	4	1	171				18	
APR	1	92	23				45	71	12	4	2	84					
	2	94	30				46	69	5	1		40					
	3	129	38				36	76	8	3	3	118					
	4	253	43			1	58	151	10	4	3	124					
	5	136	69			1	49	65	6	5		170					
	6	157	130				64	95	4	3	3	90					
	7	179	125				58	81	9	6	2	112					
	8	198	132				53	68	9	13	1	115					
	9	261	124				54	68	7	7	5	109				9	
	10	204	115			1	69	87	8	9	1	123					
	11	263	176				50	61	11	6		156					
	12	395	32				49	64	1	3	2	100		5	3	2	
	13	326	34				38	43	3	5	2	95					
	14	253	143				65	46	7	8	1	121					
	15	211	183				45	54	3	6	4	104					
	16	193	151				46	75	10	5	3	61					
	17	238	112				50	62	3	1	2	66					
	18	178	181				47	68	4	3	2	67					
	19	176	147				54	56	9	2	3	71					
	20	268	256				48	63	9	4	1	58					
	21	163	124				41	36	4	9	1	63	790				
	22	23	11				41	49	9	7	4	46	64				
	23	1	5			1	38	58	8	3	3	30					
	24	12	97				30	112	4	5	6	25					
	25	23	393				28	81	12	3	3	65					
	26	28	236			1	29	72	13	1		79				3	
	27	39	77				23	54	8	6		78					
	28	41	49				27	62	9	5	5	77					
	29	49	70				42	66	11	3	1	115					
	30	35	85			1	36	58	8	8	3	57					
MAY	1	36	127				45	68	7	6	5	45					5
	2	45	134			1	27	64	5	3	5	63					
	3	46	26				44	75	5	2	1	61					
	4	64	255				48	75	17	8	4	53					
	5	49	126			1	44	86	6	3	3	67					
	6	51	136				33	71	6	3	3	81					
	7	37	137				36	65	6	7	3	112					
	8	69	103				38	95	6	1	1	124					
	9	66	132			1	46	76	6	8	1	45					6
	10	93	130				45	69	7	7	15	63			11		4

DATE 1985	KILAUEA SUMMIT			KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)			
	SHORT PER.	LONG CALDERA	PERIOD	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA		MAUNA LOA
	CALD.	A B C									SHAL.	INT.	DEEP
MAY 11	114	142		1	42	90	4	5	2	74			
12	111	101			28	67	3	5	2	60			32
13	75	129	4		47	54	3		1	45			
14	120	132		2	52	79	5	2		51			
15	119	142		1	46	53	9	4	2	73			
16	201	122		2	30	51	8	2	3	53			
17	211	164			46	107	8	1		37			
18	247	124		1	40	88	4	2		26			
19	172	146			124	92	11	2		76			
20	167	186			67	85	10	3		44			
21	115	179		1	33	78	9	5		42			4
22	192	47		2	31	53	7	4		22			
23	125	391			46	58	16	1		34	94		
24	163	140			54	51	4	2		57	7		
25	234	18			35	65	19	2		85			2
26	192	19		2	49	37	6	1		52			
27	215	62			38	65	9	1		44			
28	238	105		1	33	80	7	1		28			
29	213	128			47	76	3	3	1	38			
30	115	89		1	36	84	13	1		53			27
31	129	23			34	72	7	3	2	52			
JUN 1	387	7	87	2	31	51	8	3	2	75			14
2	501		95	2	49	77	10	8	1	82	4		7
3	411	2	3		48	78	11	4		49	2		
4	440	3	16	2	48	77	7	4	1	87			
5	426	3	29	1	40	43	6	3	6	50			
6	417	1	38		49	42	10	2	1	56			
7	434		42	1	58	47	6	3	1	52			26
8	430		26		61	81	3	3	1	71			
9	268	1	60		43	99	9	9	1	96			9
10	273	1	67	1	53	82	5	3		87			
11	267		100	1	49	85	11	3		89			
12	199	28	10	68	30	46	16	3		60	348		
13	53	227	20	48	37	244	12	2	3	73			
14	55	7	6	150	38	164	6	4		77			
15	58	3	5	135	41	128	6	1		63			
16	79	1	1	140	56	102	9	4	1	76			3
17	70	1	1	124	47	59	7	6		55			5
18	75	2		76	42	73	8	3	3	55			3
19	88	2		184	45	70	9	1	1	57			
20	157			215	33	72	8	2	2	43			
21	146			100	34	53	8	6	9	17			
22	159			237	28	72	10	5		32			
23	211	7		101	54	104	10	4	2	29	20		5
24	206	24	3	161	59	94	19	2	2	25			47
25	206	2		143	39	113	10	2	2	28			
26	230	5		143	27	125	7	4		49			22
27	224	3	1	316	40	88	7	2		44			
28	229	7		223	36	69	12	5	1	42			
29	181			254	47	65	11	1	2	40	4		

KILAUEA SUMMIT				KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)			
DATE	SHORT PER.	LONG CALDERA	PERIOD	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA SHAL.	MAUNA LOA INT.	DEEP
1985	CALD.	A	B	C									
JUN	30	188	9	99	1	42	63	12	1	2	48		8
JUL	1	237	2	147		37	82	12	3		53		
	2	279		316		31	68	12	1	7	56		
	3	262	2	119		32	50	5		3	34		37
	4	347	1	121		40	99	10	3	3	68		2
	5	271	2	227	3	37	90	6	1		42		
	6	255	6	160	3	110	72	11	4	1	78	776	5
	7	246	1507	16		54	55	4	1	3	32	54	16
	8	151	146	94		51	39	11	4	2	29		
	9	157	13	63		45	46	16	3	1	30		
	10	50	29	1	46	1	29	142	3	4	22	11	80
	11	64	8	2		35	65	9			58		
	12	81	12	2	4	1	38	96	11	1		82	
	13	92		5		49	81	9	2	34	135		
	14	119	2	13		43	78	10	5		142	4	
	15	121		9		30	62	8	4	2	131		
	16	172		10		36	95	12	7	1	124		
	17	158		1	1	43	67	8	6		119		
	18	187	1	2		48	38	10	2	3	99		
	19	176				39	45	11	5	6	41		
	20	228		4		25	52	11	3		36		
	21	264	2	36		36	67	11	4	7	211		
	22	232	2	4	1	27	50	10	5		91		
	23	284		16		45	45	9	3	2	39		
	24	319		3		41	59	8	1	1	26		
	25	203	12	10	1	29	74	8	4	3	20	316	4
	26	35	206	11	3	29	140	11			17	415	
	27	23	2679			43	47	11	3		32	1440	
	28	39	248	1		34	33	6	1		26	1440	
	29	31	5	8		29	42	11			19	1440	
	30	48	8	20	1	32	71	10	3	3	50	1440	
	31	61	2	16		39	69	13	2		70	1440	47
AUG	1	51	3	9	2	28	49	10	3		18	1440	
	2	29		7		18	58	17	1		11	1440	2
	3	58	1	9		30	36	12			18	1440	15
	4	66		12		50	41	16	1		27	1440	
	5	70	1	13		48	53	7	6	4	9	1440	
	6	83		26		58	55	8	5	1	24	1440	6
	7	89		1	22	38	35	6	1		2	1474	
	8	95		1	20	47	103	8	1	6	9	1406	
	9	88	1	36		46	62	10	1	2	13	1440	31
	10	106		37	1	42	59	9	3		23	1440	4
	11	106		54		48	73	8		1	54	1200	
	12	112		75		56	55	10	5	4	18		3
	13	200	2	4	21	38	83	2	5	1	12		
	14	195	9	3	49	39	100	5	5	1	12		
	15	253	2	3	31	23	98	6	2	11	11		9
	16	327	3	21		32	142	9	2	6	8		8
	17	301	3	68		46	68	6	5	1	14		12
	18	396	8	133		48	88	2	2	4	16	8	

DATE 1985	KILAUEA SUMMIT				KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)				
	SHORT PER.	LONG CALDERA	PERIOD		30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA			MAUNA LOA
	CALD.	A	B	C								SHAL.	INT.	DEEP	
AUG 19	318	1		3		47	83	7	4	2	17				
20	233	5	3	3		27	49	2	1	1	9				
21	282	5	2	4		29	55	5	2		7				
22	476	3		9		43	79	6	1	6	13			6	
23	477	1		4		54	79	10	2	2	18				
24	524			8		44	106	10	5	1	21			37	2
25	570			9		60	122	5	5	3	16				
26	422	3	1	4	1	56	62	3	1	1	10				
27	392	5	2	14	1	30	44	7	3		15				
28	446	7	2	2		31	50	6		3	9				
29	461	5	1	2		36	64	3	5	2	7				
30	461	2		1	4	58	89	11	2	5	21				
31	569	1	1	26	1	37	77	8	1	1	16				
SEP 1	499	5		10	1	52	73	11	8	3	13			8	3
2	261	640	2	46		58	85	9	3	4	7	575			
3	39	926	5	2		47	65	10	8		13				
4	61	158	2	8	1	44	97	7	6	3	9				
5	40	4	1	3		33	43	5	1		6			2	
6	68	2				28	52	6	2	2	10				
7	82	7	10	60		49	77	1	1	5	4			13	4
8	82	8	2	2		49	71	7	2	3	17				
9	87	4		9		38	102	8	4		15				
10	124	3		1		38	94	8	1		11				
11	140	2		14		28	61	12			14				
12	128	1	2	1		31	99	10	3		6			26	
13	136			2	1	31	70	7	2		21				
14	130	8	2	8	1	27	71	11	2		23				
15	256	7				49	73	12	2	1	4				
16	227	6	3	4		33	81	15	2	1	3				
17	212	54	1			34	66	5			3				
18	223	43	3	1		43	54	7	2	2	8			6	
19	207	43	1		1	24	66	3	2	2	18				
20	319	91	1			44	97	8	1	2	10				
21	451	15	3		11	52	77	5	3	6	9				
22	588	4	7	4		44	126	7	2	2	10				
23	487	6	2	14		99	6			2					17
24	349	7	11	18		29	96	5	1	7	7	470			8
25	34	160	87			39	45	15					4		
26	41	243	3	13		55	73	9		1	3				6
27	44	320	7	28	1	31	53	5	1		21				
28	50	70		26		44	48	10	2		11				
29	56	49	4	24		31	50	3	1	3	12			3	
30	53	77		70		63	69	5	1	1	3				
OCT 1	71	17		6		48	61	12	3	5	4				
2	84	12		3		51	92	11	3	1	5				
3	100	10		14		37	68	12	3	7	6				
4	112	4	1	12	3	33	72	9	3	3	2				
5	99		1	10		46	72	5	1		6				
6	170	9		22		46	137	11	3	5	6				
7	178	23	5	28		38	91	9	1	2	7			4	

KILAUEA SUMMIT				KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)				
DATE 1985	SHORT PER.	LONG CALDERA	PERIOD	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA			MAUNA LOA
	CALD.	A B C	C					PER.	PER.	RIFT	SHAL.	INT.	DEEP	LOA
OCT 8	153	1		18		27	66	1		17				4
9	156	4		1	1	50	59	10	2	5	13			4
10	181	4				31	68	8		3	12			
11	202	3		1		45	49	6		1	10			
12	276	1			3	36	106	1	1	5	17			
13	302	6		7		46	77	14	3	3	16			
14	412	11		2		57	118	11	4	4	7			15
15	496	2		7		34	103	14	1	2	11			
16	473	5		14		60	100	7	5	1	3			
17	396	6		19		32	87	2	4	1	4			
18	522			14		43	117	5	4	3	2			14
19	461			26	1	37	104	3	3	2	12			
20	550	10	3	30		39	104	10	3	6	8	300		2
21	69	421	2	3		29	62	5	1	2	7	204		3
22	32	592	1	15		37	52	7	2	6	10			
23	76	97	4	50		25	58				7			
24	83	15		28	2	28	62	3		2	8	36		
25	73	6		20		30	67	4	1	2	9			
26	90	5		58		27	94	6	2	4	10			
27	106	1		39		39	71	12	1	2	9			5
28	91	1		30		28	60	2	1	7	10			
29	90	4		25		23	42	9	4	2	6			
30	132	16	3	15		27	52	6	3	7	9			4
31	177	4	2	7		25	52	7	1	2	14			
NOV 1	186	11	1			58	56	12	2	8	6			
2	171	9	2			86	66	7		9	1			
3	248	5	1			151	63	9		6	6			3
4	189	3	6	19		47	61	2	2	4	2			
5	257	19	6	1		55	71	8	1	6	4			
6	337	33	5	2		44	57	11	1	6	2			
7	324	21	2	3	1	32	82	14		5	2			
8	284	38		2	1	62	63	10	2	3	4			4
9	417	21		5	1	48	79	6	5	1	1			2
10	391	55		4	1	44	64	6			6			
11	535		2	2		36	76	8	3	3	6			
12	376		3	3		45	94	4	2		4			42
13	215		16	2	2	49	59	7	3	2	7	556		
14	49	586	7	1	1	41	60	8		2	2			
15	68	113	5	6		19	32	12		1				
16	65	45	3	48		35	40	9	4	1	3			
17	67	42		80		25	46	14	5		10			
18	48	5	3			20	46	6	6		5			
19	83	14		132		37	48	4	1		4			
20	75	4		107		32	49	3	2		4			
21	100	4	1	67		37	48	4	2	2	8			3
22	77	3	1	124		36	43	1	3	1	1			
23	105	3		10		35	59	1	3	2	14			
24	134	3		123	1	34	60	9	3					3
25	143	9	1	151		41	66	7	1	1	4			
26	119	11		100		27	56	5	5		9			

DATE 1985	KILAUEA SUMMIT			KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)			
	SHORT PER.	LONG CALDERA	PERIOD	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA		MAUNA LOA
	CALD.	A	B C								SHAL.	INT.	DEEP
NOV 27	174	3	81		54	46	8		2	1			
28	202	1	87		51	65	5			3			
29	213	2		1	48	64	12	1	1	6			
30	232	1	34		45	54	9		2	2			
DEC 1	163	1	27		26	44	5	2		1			5
2	263	3	1 20	1	35	44	2	1	3	1			
3	338	2	31		36	54	4	3	1	8			
4	353	3	9		36	63	2		5	10			39
5	241	7	8	1	40	60	1	2		3			16
6	270	3	5		19	70	5	1		9			
7	296	3	15		47	84	1		2	12			
8	317	4	22		49	84	8	1	5	11			6
9	349	1	1 18		47	71	7	1	3	8			
10	313	2	2 11	1	23	72	12		1	8			
11	347		7		59	74	5	1		3			
12	327	2	12		39	87	11	2	3	3			
13	314	2	4	1	32	106	5	4	1	4			
14	430		51		34	75	9	2		3			
15	419		40		45	82	4	1		50			
16	373	1	3		55	67	8			5			
17	360	2	1		57	91	7			4			
18	232	12	2		24	71	2	2	2	10			
19	294	8	34		43	71	7	4	4	8			
20	188	1	21		26	45	4	2	2	4			
21	352	4	7		42	63	1		1	6			73
22	358	1	20		58	67	3	3	4	4			
23	290	4	16		51	50	4		3	3			
24	417	4	13		43	78	7	2		1			
25	406	2	30		56	85	9			8			
26	346	2	26		56	62	10		5	4			15
27	310	2	18		37	49	19	4	1	6			3
28	289	3	18		45	32	8	2		3			
29	257	1	25		35	49	4	1	2	3			
30	173	3			26	19	3						39
31	190	3	9		201	25	1						

Table 4. Coordinates of named earthquake regions.

All earthquakes are in one of the following groups, identified by a numerical class or 3-letter code:

--Shallow:

- 1 SNC - Shallow north caldera (0-5 km)
- 2 SSC - Shallow south caldera (0-5 km)
- 3 SEC - Shallow east caldera (0-5 km)
- 4 SER - Shallow east rift (0-5 km)
- 5 SME - Shallow middle east rift (0-5 km)
- 6 KOA - Koaie fault zone (0-5 km)
- 7 SSF - Shallow south flank (0-5 km)
- 8 SLE - Shallow lower east rift (0-5 km)

--Intermediate depth:

- 9 SF1 - Kilauea south flank (5-13 km) (west end)
- 10 SF2 - Kilauea south flank (5-13 km)
- 11 SF3 - Kilauea south flank (5-13 km)
- 12 SF4 - Kilauea south flank (5-13 km)
- 13 SF5 - Kilauea south flank (5-13 km) (east end)
- 14 LER - Lower east rift (5-99 km)
- 15 MLO - Mauna Loa (0-13 km)
- 16 LSW - Lower SW rifts of Kilauea and Mauna Loa (0-13 km)
- 17 GLN - Glenwood (0-13 km)
- 18 SWR - SW rift (0-13 km)
- 19 INT - Intermediate caldera (5-13 km)
- 20 KAO - Kaoiki (0-13 km)

--Deep:

- 21 DEP - Deep Kilauea (>13 km) (below regions 1-13, 17-19)
- 22 DLS - Deep lower SW rift (>13 km) (below region 16)
- 23 DML - Deep Mauna Loa (>13 km) (below regions 15, 20)

--Outer regions, all depths:

- 24 LOI - Loihi
- 25 KON - South Kona
- 26 HUA - Hualalai
- 27 KOH - Kohala
- 28 KEA - Mauna Kea
- 29 HIL - Hilo
- 30 DIS - Distant, everywhere else

The latitude and longitude limits of the regions are given below. When the coordinates imply an overlap, precedence is given as in the maps.

No.	Code	N. Lat.	S. Lat.	W. Lon.	E. Lon.
1	SNC	19 28	19 24.5	155 19	155 14
2	SSC	19 24.5	19 22	155 19	155 16.5
3	SEC	19 24.5	19 22	155 16.5	155 14
4	SER	19 26	19 20.5	155 14	155 07.2
5	SME	19 26	-----	155 07.2	155 00
6	KOA	19 22	19 20.5	155 17	155 14
7	SSF	-----	19 10	155 17	155 00
8	SLE	19 32	19 16	155 00	154 40
9	SF1	19 22	19 10	155 17	155 14.5
10	SF2	19 26	19 10	155 14.5	155 12.3
11	SF3	19 26	19 10	155 12.3	155 09.1
12	SF4	19 26	19 10	155 09.1	155 05.3
13	SF5	19 26	19 10	155 05.3	155 00
14	LER	19 32	19 16	155 00	154 40
15	MLO	19 35	19 19	155 35	155 19
16	LSW	19 19	18 40	155 43	155 25
17	GLN	19 35	19 26	155 19	155 00
18	SWR	19 22	19 10	155 25	155 17
19	INT	19 28	19 22	155 19	155 14
20	KAO	19 30	19 19	155 32	155 19
21	DEP	19 35	19 10	155 25	155 00
22	DLS	19 19	18 40	155 43	155 25
23	DML	19 35	19 19	155 35	155 19
24	LOI	19 10	18 40	155 25	155 00
25	KON	19 39	19 00	156 20	155 43
26	HUA	19 55	19 39	156 20	155 43
27	KOH	20 25	19 55	156 20	155 34
28	KEA	20 25	19 35	155 34	154 40
29	HIL	19 47	19 32	155 09	154 40

Figure 5. Earthquake classification, shallow 0 - 5 km deep  
 Kilauea and east flank Mauna Loa.

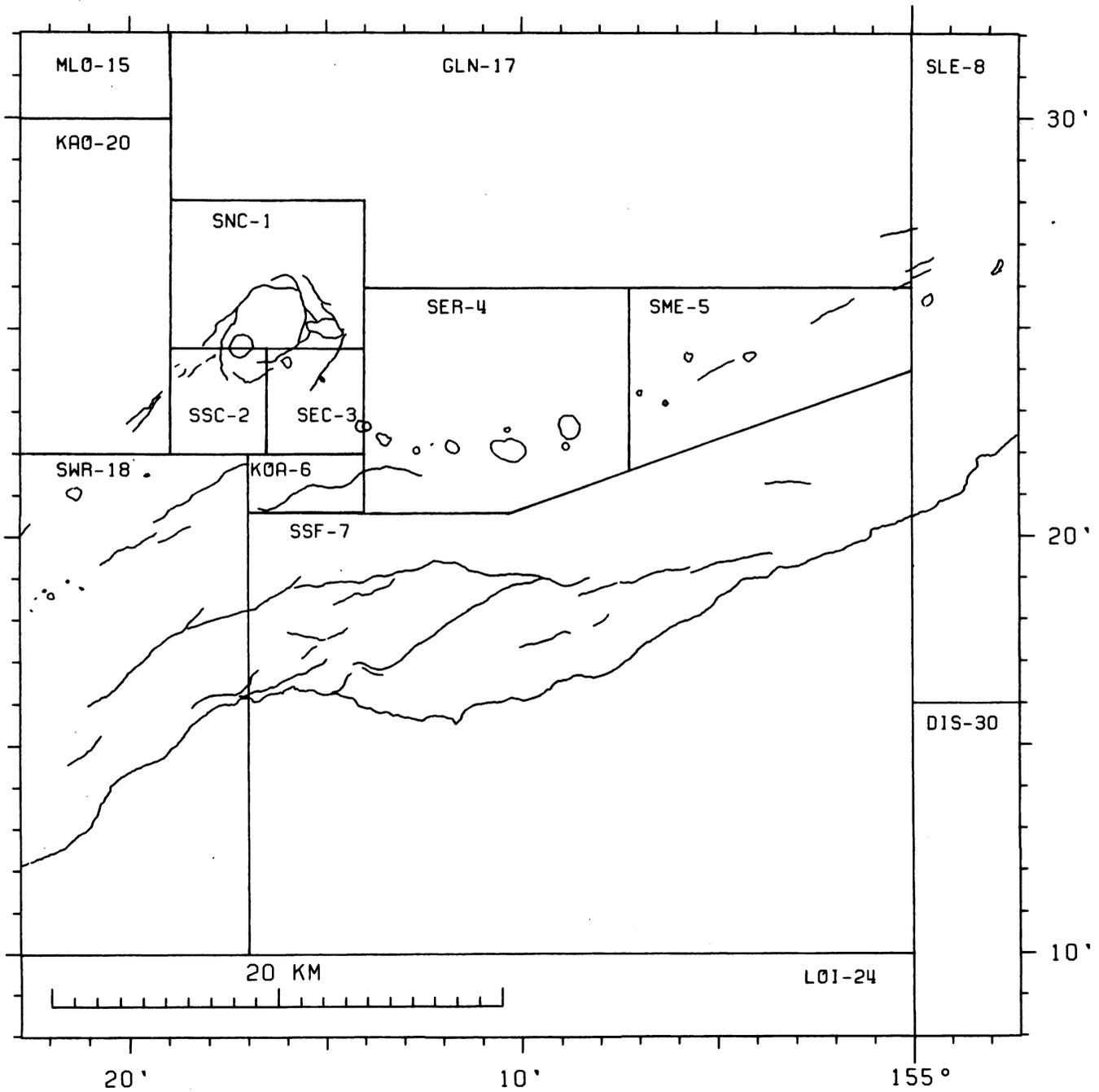


Figure 6. Earthquake classification, intermediate 5 - 13 km deep Kilauea and east flank Mauna Loa.

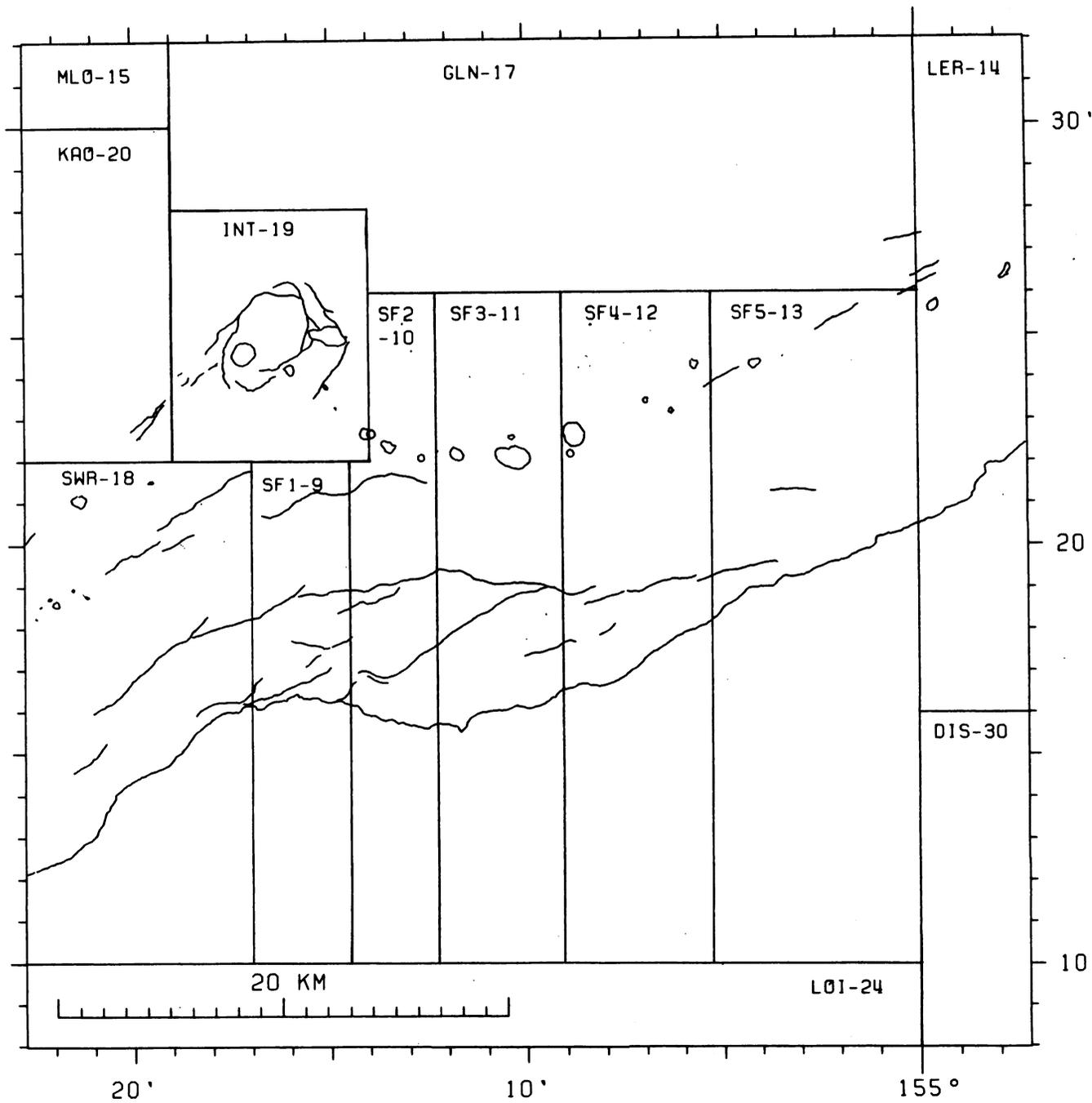


Figure 7. Earthquake classification, crustal 0 - 13 km deep island of Hawaii.

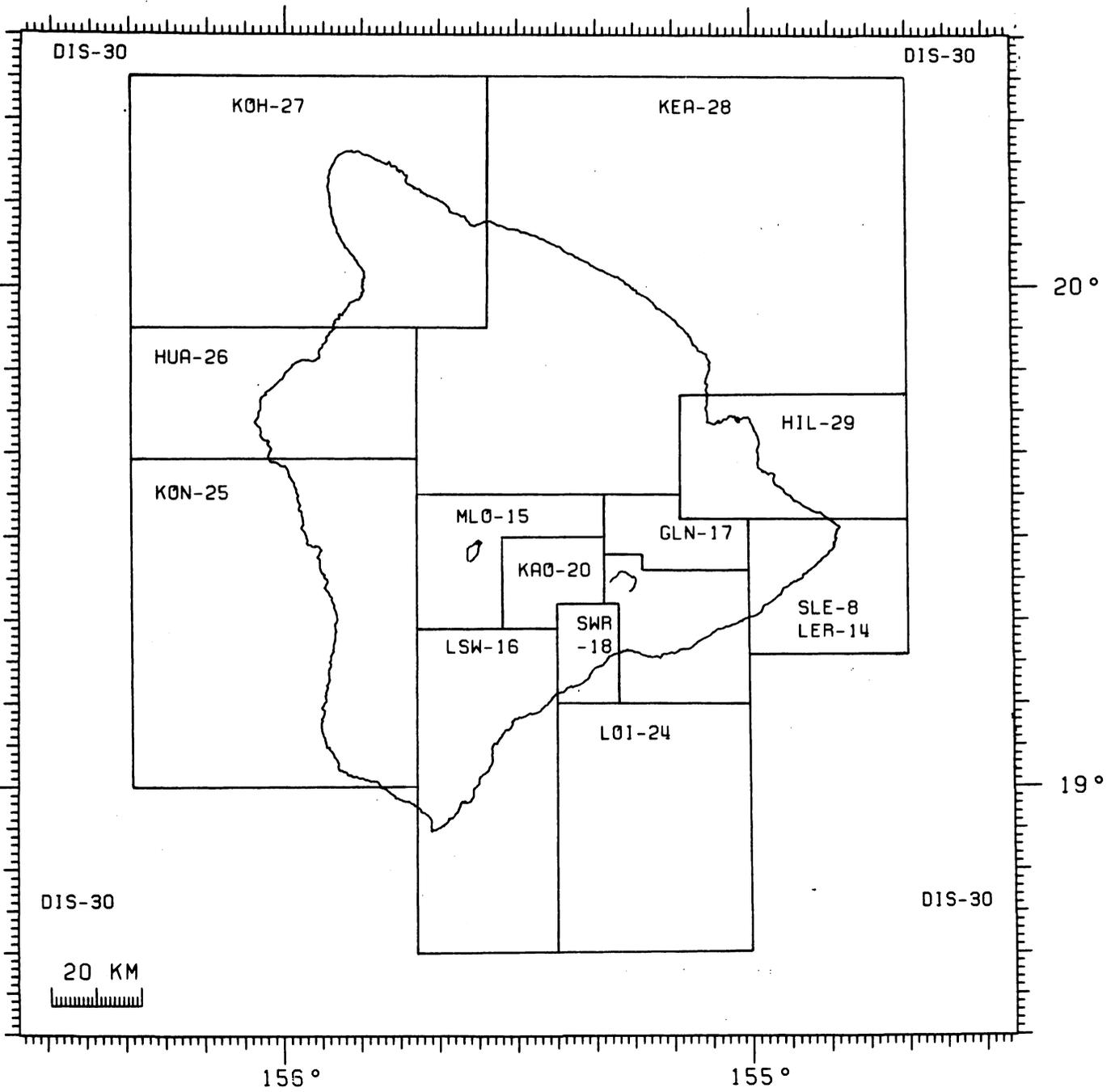


Figure 8. Earthquake classification, mantle greater than 13 km deep island of Hawaii.

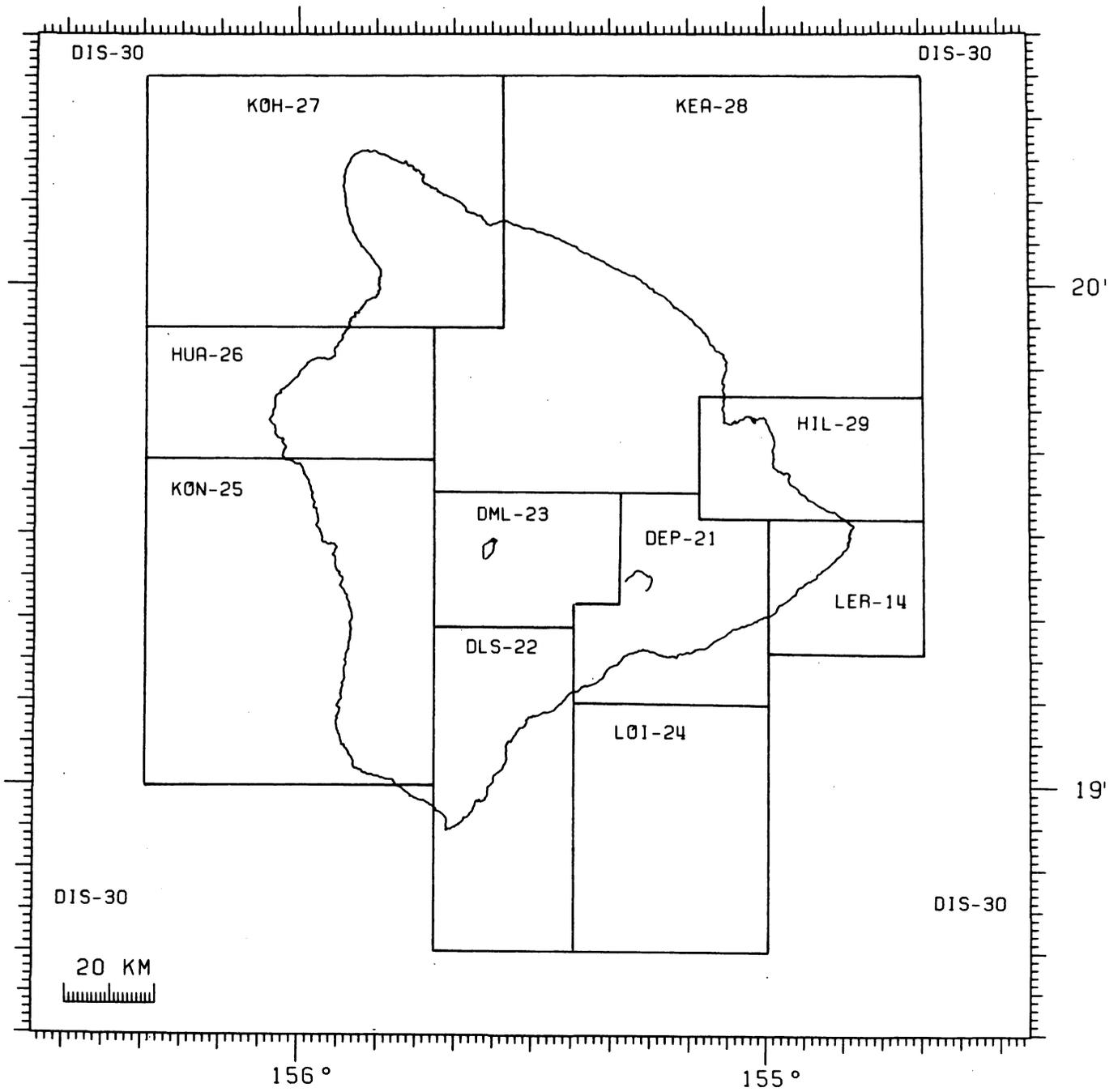


Figure 9

1985 HAWAIIAN ISLANDS EARTHQUAKE LOCATIONS  
0-60 KM DEPTHS, M>=3.5

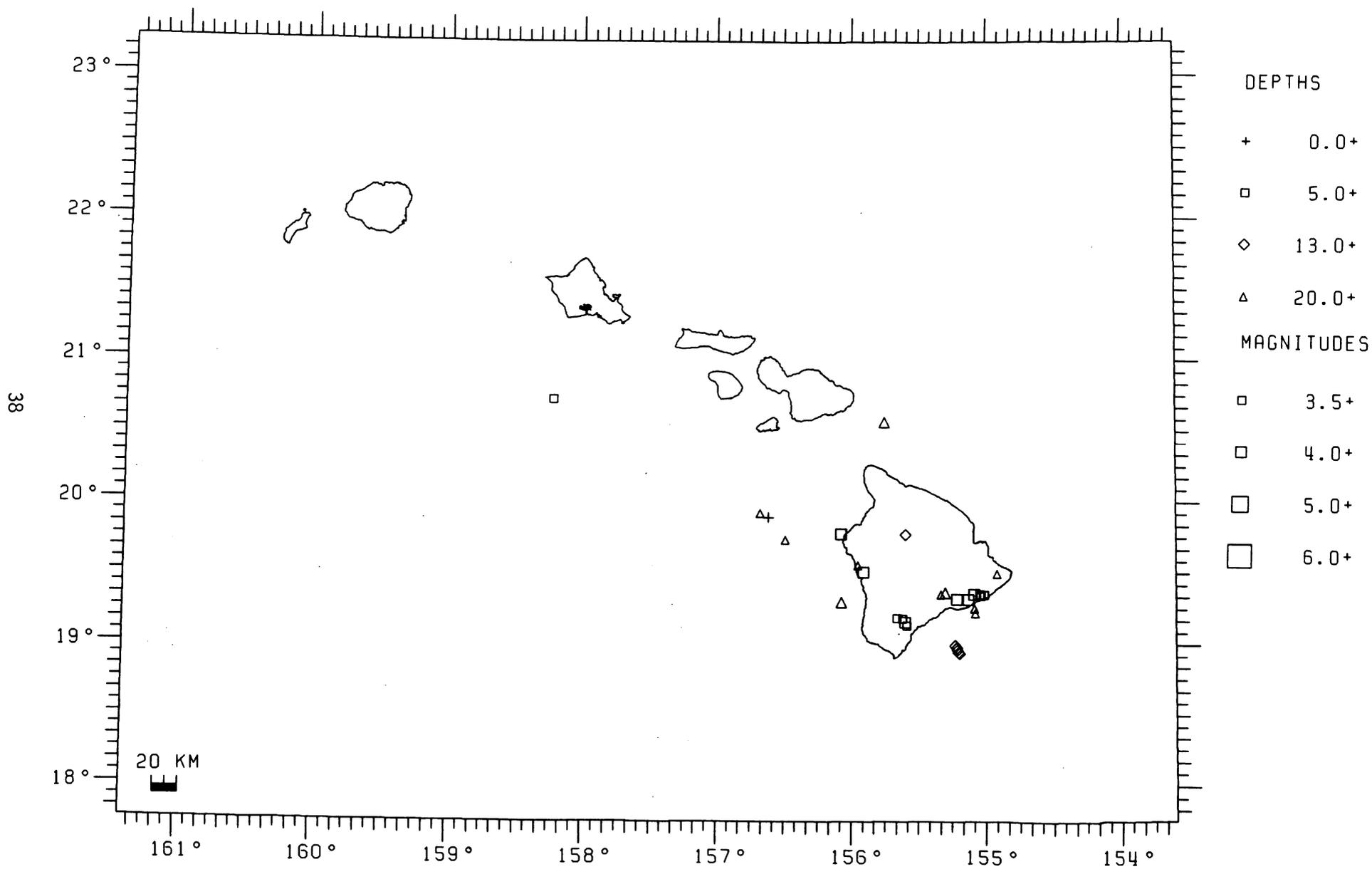


Figure 10

1985 HAWAII ISLAND EARTHQUAKE LOCATIONS  
0-5.0 KM DEPTHS,  $M \geq 2$

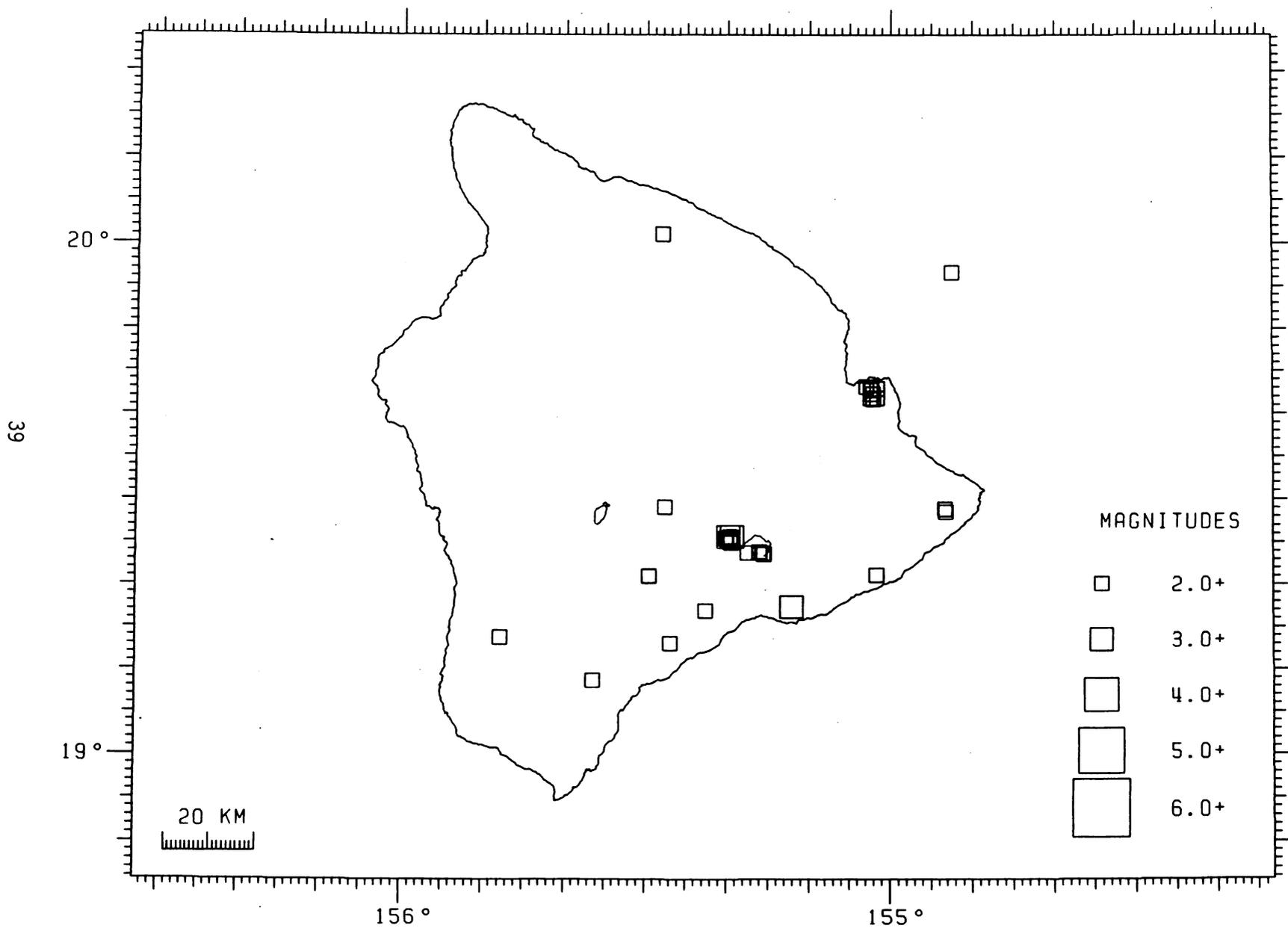


Figure 11

1985 HAWAII ISLAND EARTHQUAKE LOCATIONS  
5.1-13.0 KM DEPTHS, M>=2

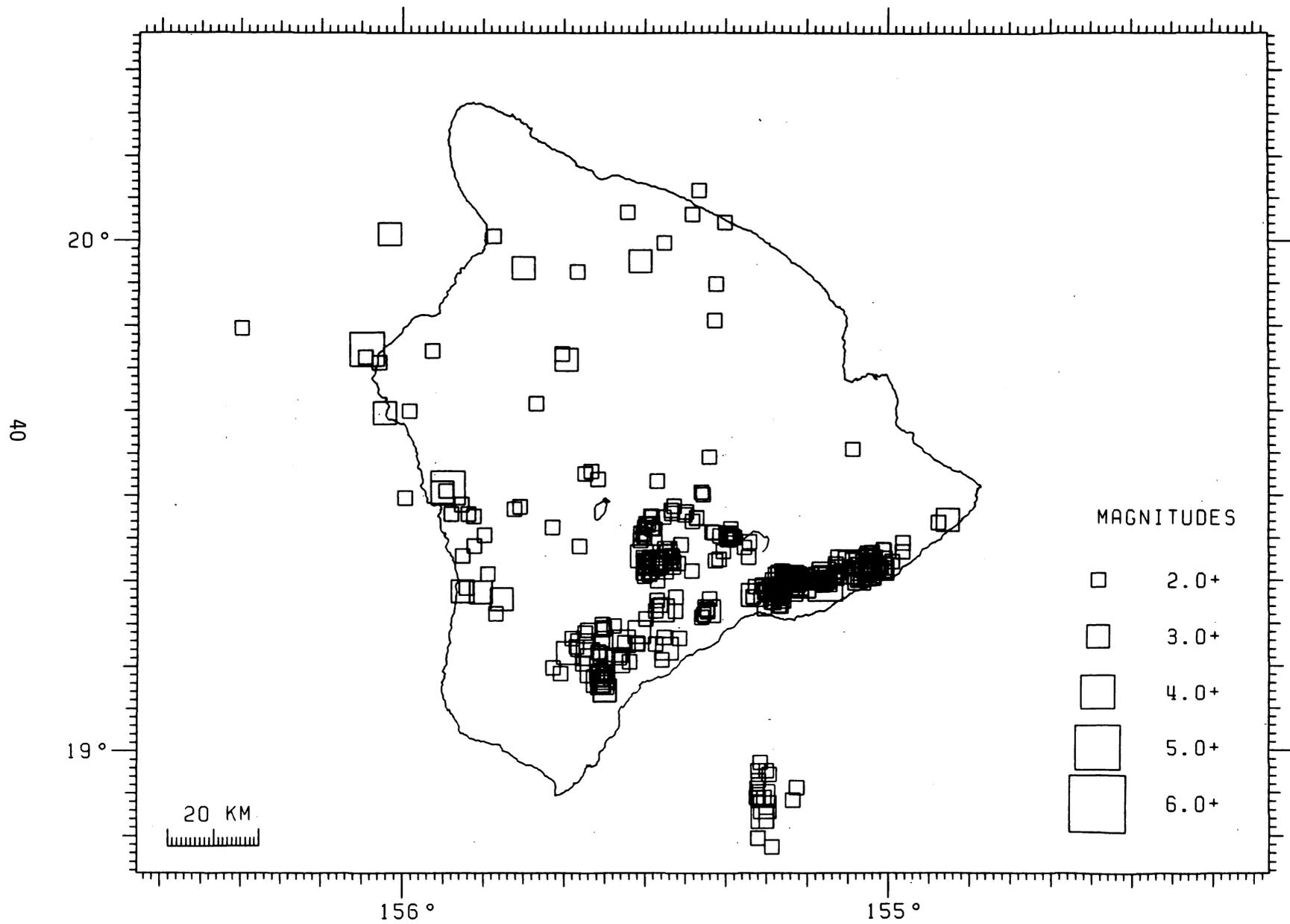


Figure 12

1985 HAWAII ISLAND EARTHQUAKE LOCATIONS  
13.1-60.0 KM DEPTHS,  $M \geq 2$

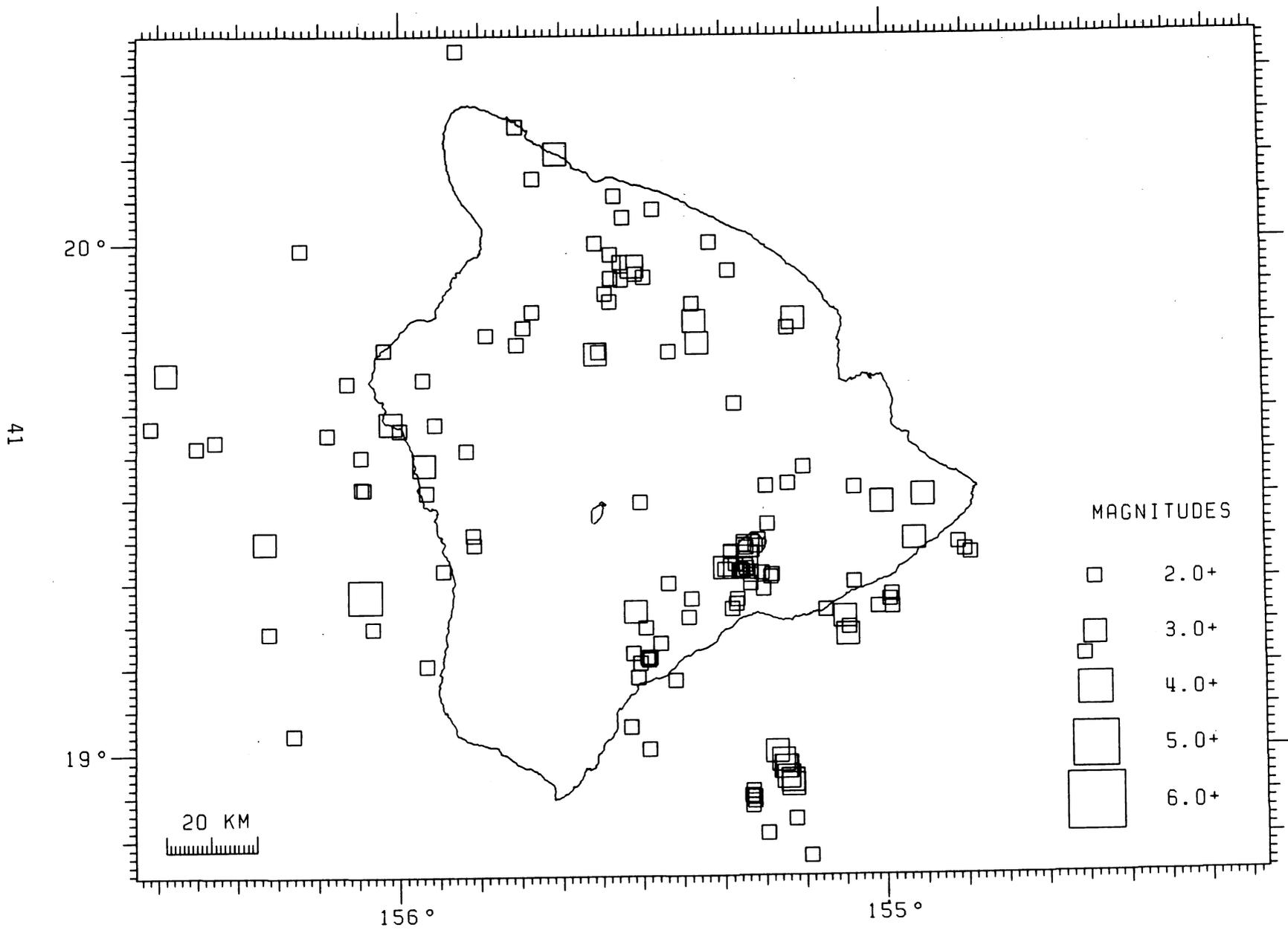


Figure 13

1985 KILAUEA SUMMIT EARTHQUAKE LOCATIONS  
0-5.0 KM DEPTHS,  $M \geq 1.0$

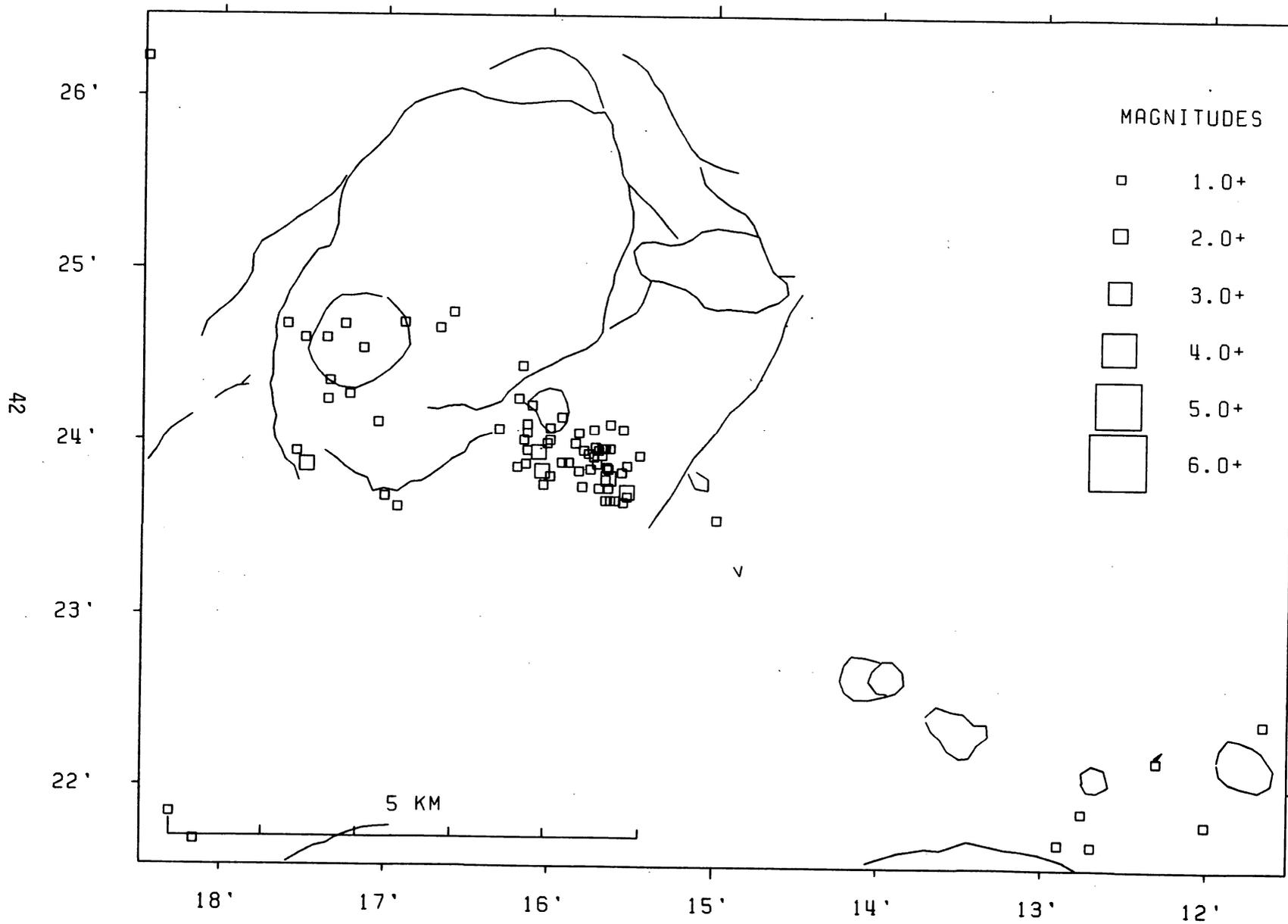


Figure 14

1985 KILAUEA SUMMIT EARTHQUAKE LOCATIONS  
5.1-13.0 KM DEPTHS,  $M \geq 1.0$

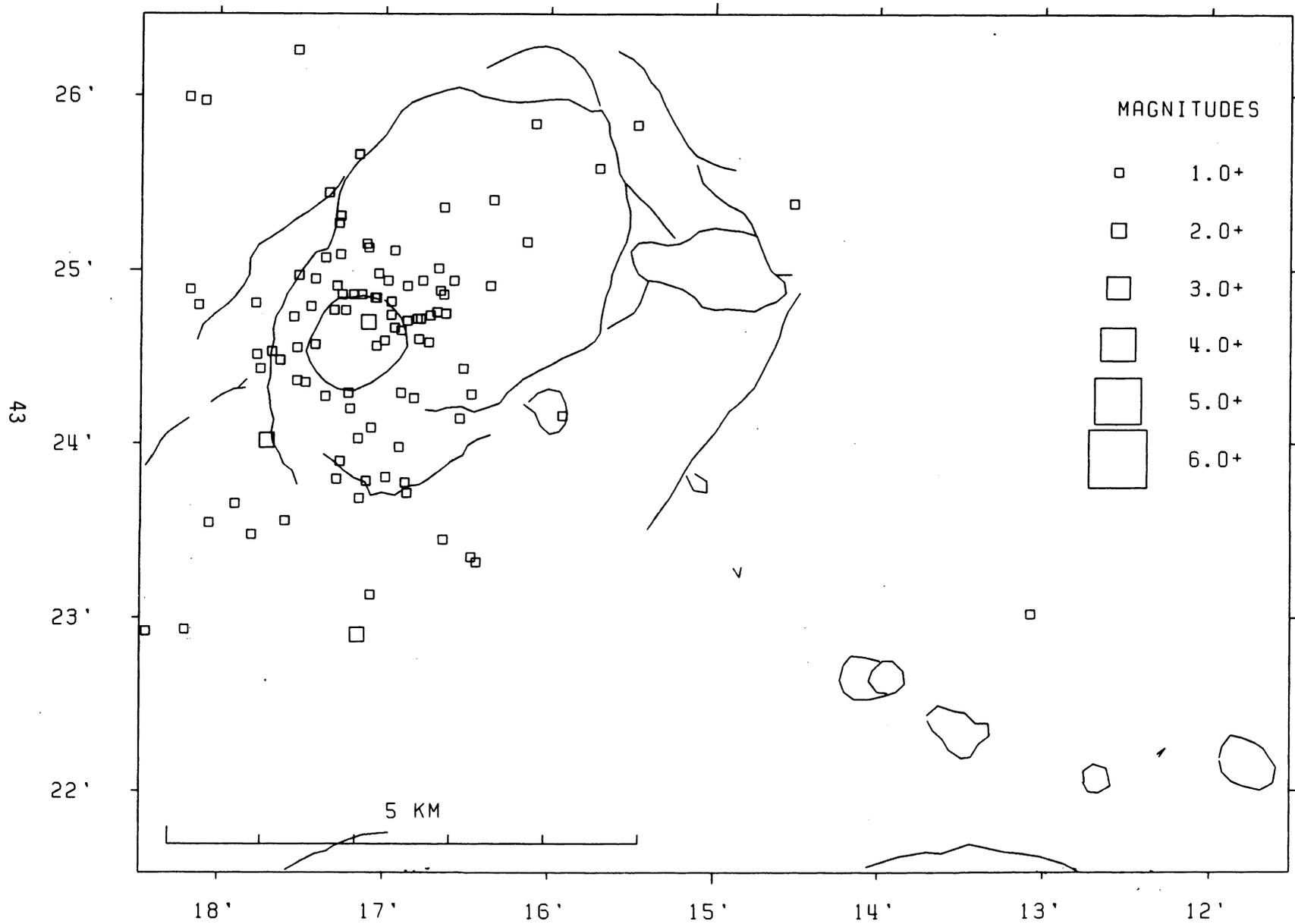


Figure 15

1985 KILAUEA SUMMIT EARTHQUAKE LOCATIONS  
13.1-60.0 KM DEPTHS,  $M \geq 1.0$

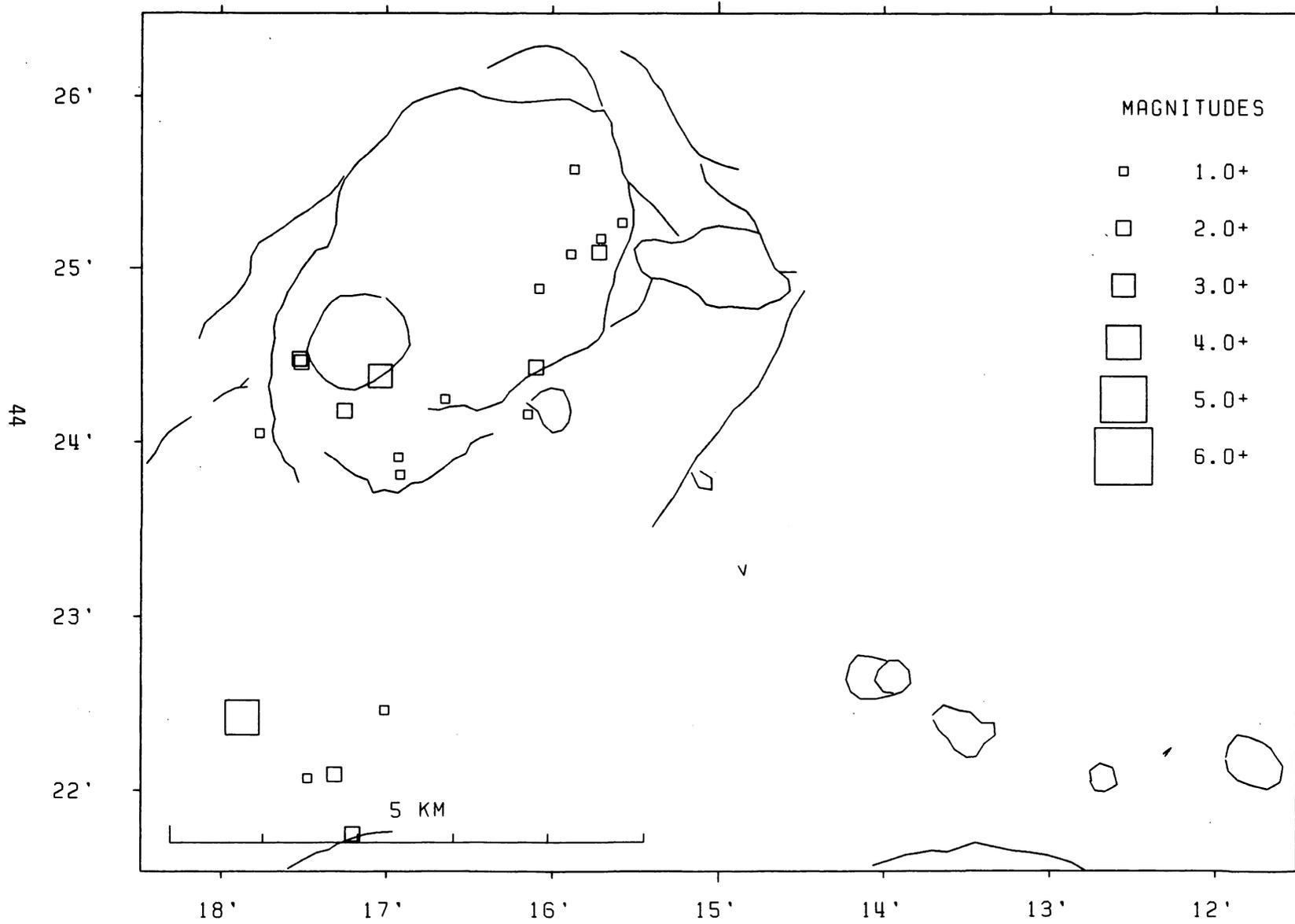


Figure 16

1985 KILAUEA SOUTH FLANK EARTHQUAKE LOCATIONS  
0-5.0 KM DEPTHS, M $\geq$ 2.0

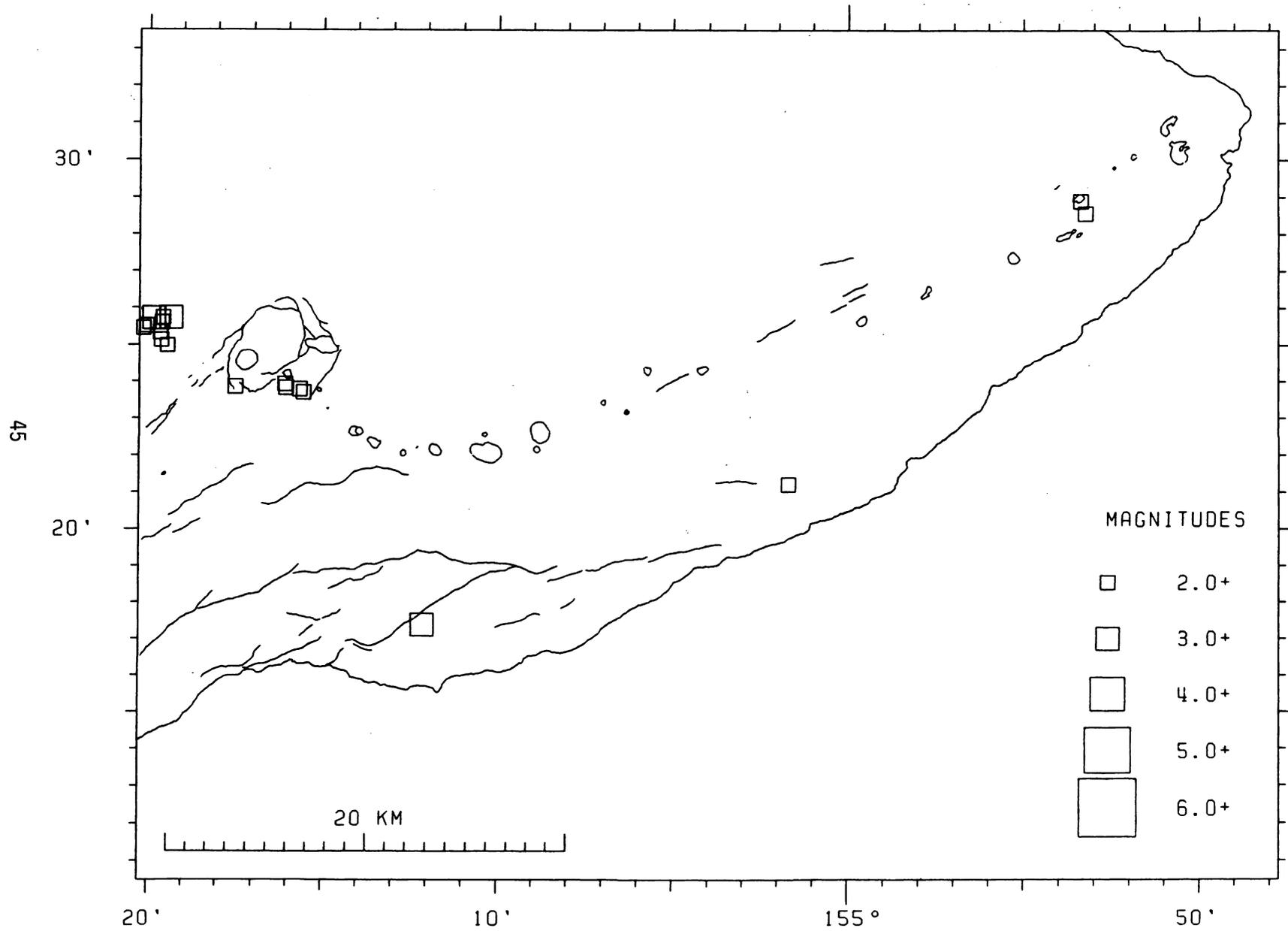


Figure 17

1985 KILAUEA SOUTH FLANK EARTHQUAKE LOCATIONS  
5.1-13.0 KM DEPTHS,  $M \geq 2.0$

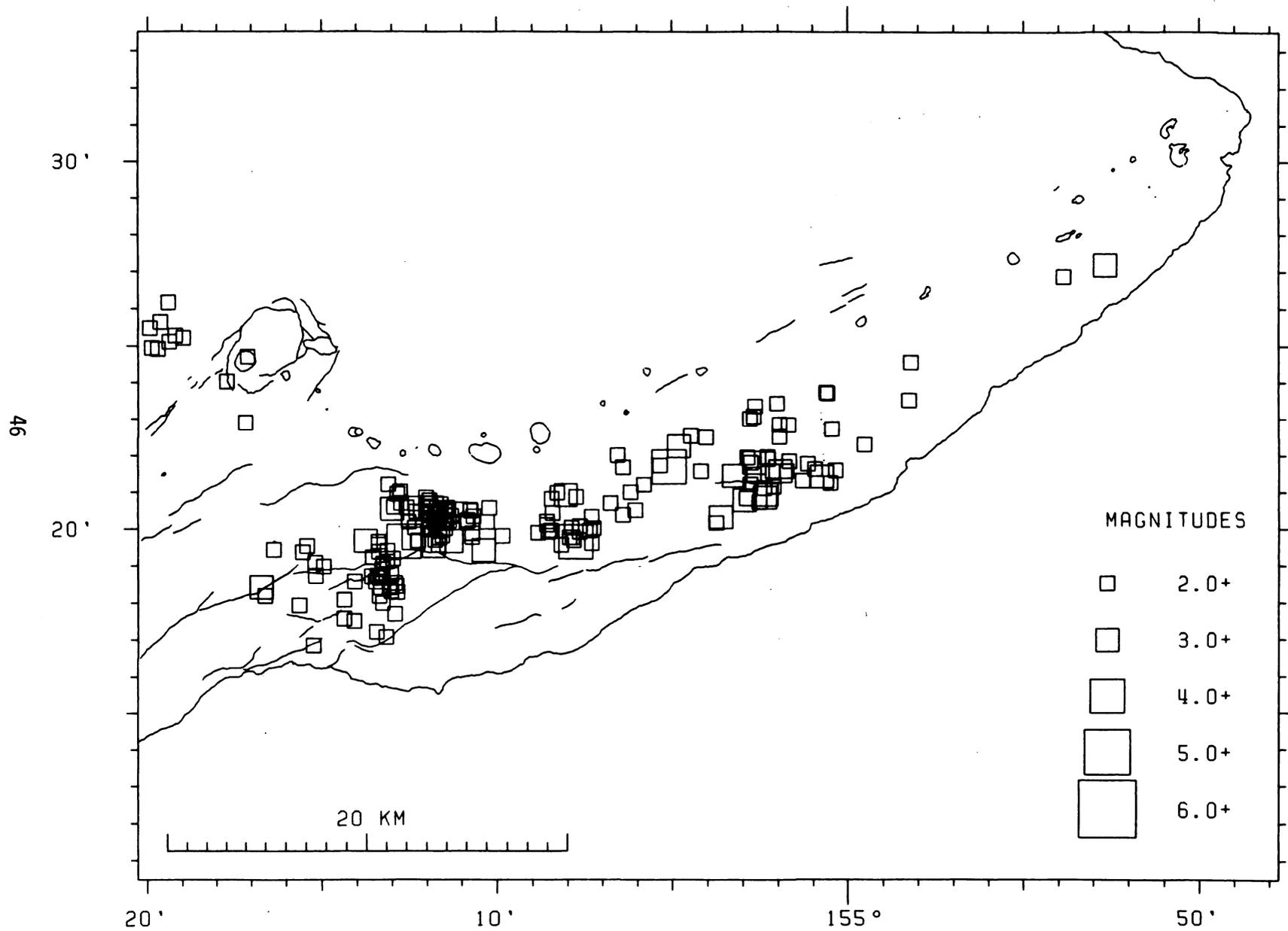


Figure 18

1985 KILAUEA SOUTH FLANK EARTHQUAKE LOCATIONS  
13.1-60.0 KM DEPTHS,  $M \geq 2.0$

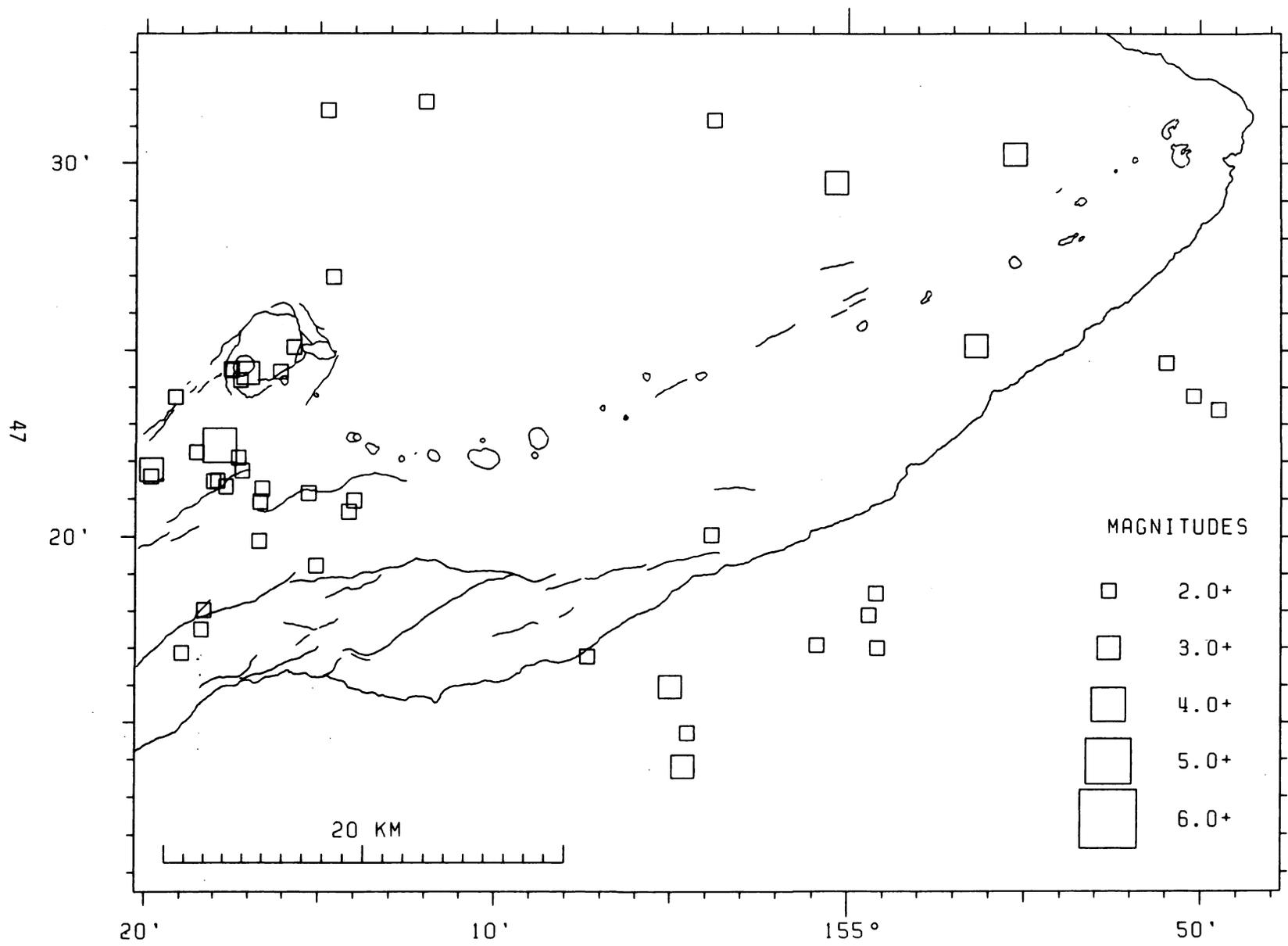


Figure 19

1985 MAUNA LOA SUMMIT EARTHQUAKE LOCATIONS  
0-5.0 KM DEPTHS,  $M \geq 2.0$

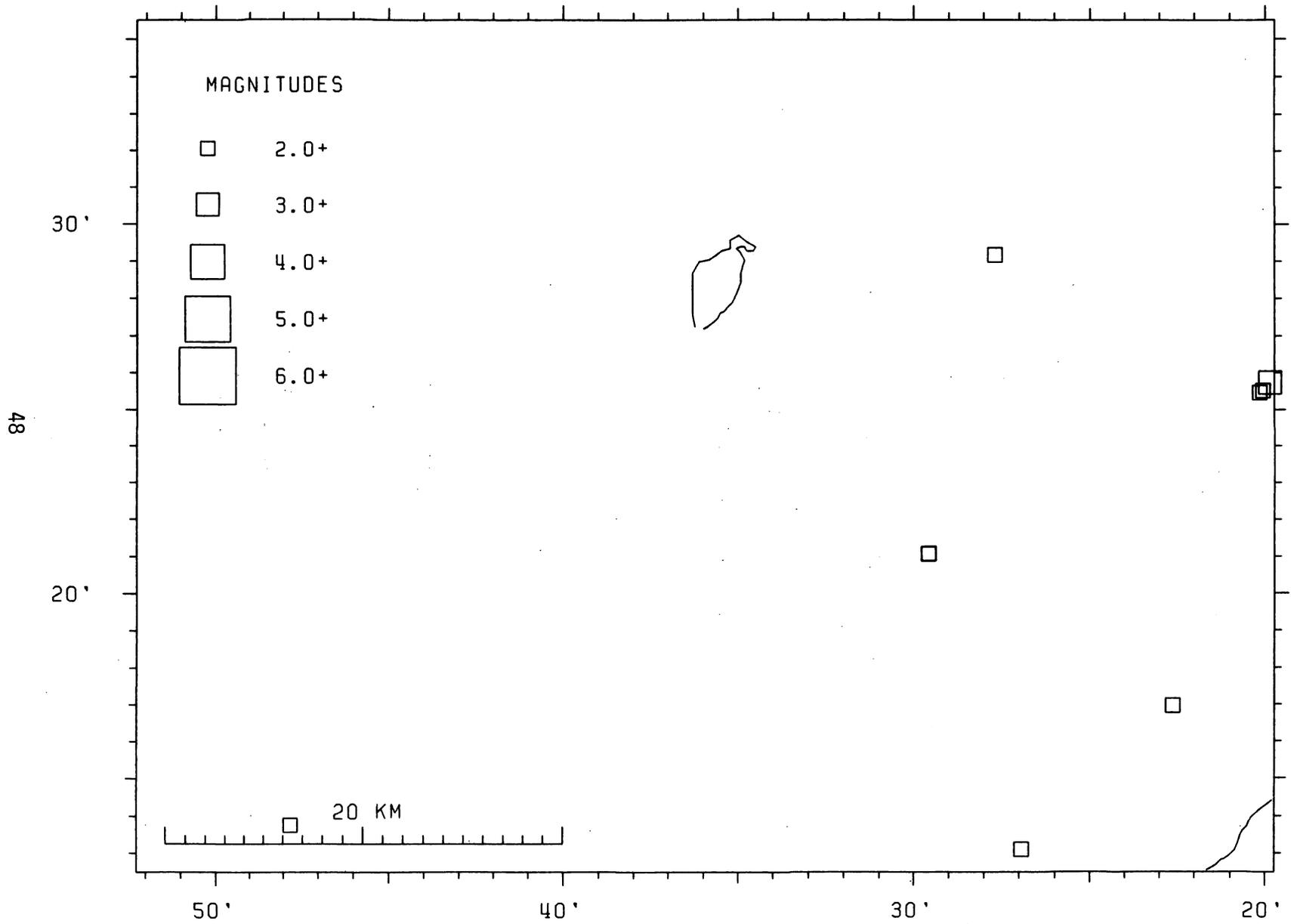


Figure 20

1985 MAUNA LOA SUMMIT EARTHQUAKE LOCATIONS  
5.1-13.0 KM DEPTHS,  $M \geq 2.0$

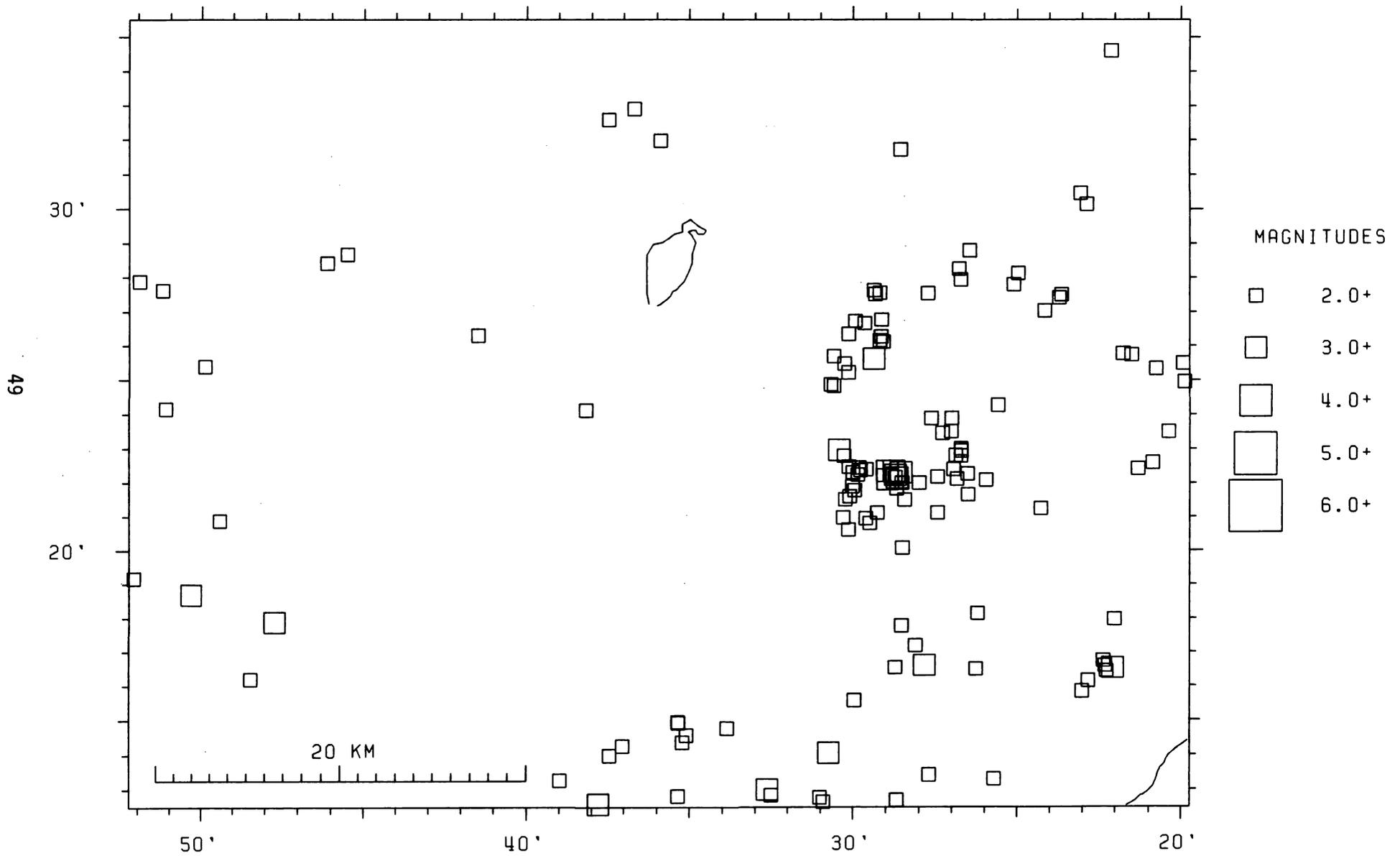


Figure 21

1985 MAUNA LOA SUMMIT EARTHQUAKE LOCATIONS  
13.1-60.0 KM DEPTHS,  $M \geq 2.0$

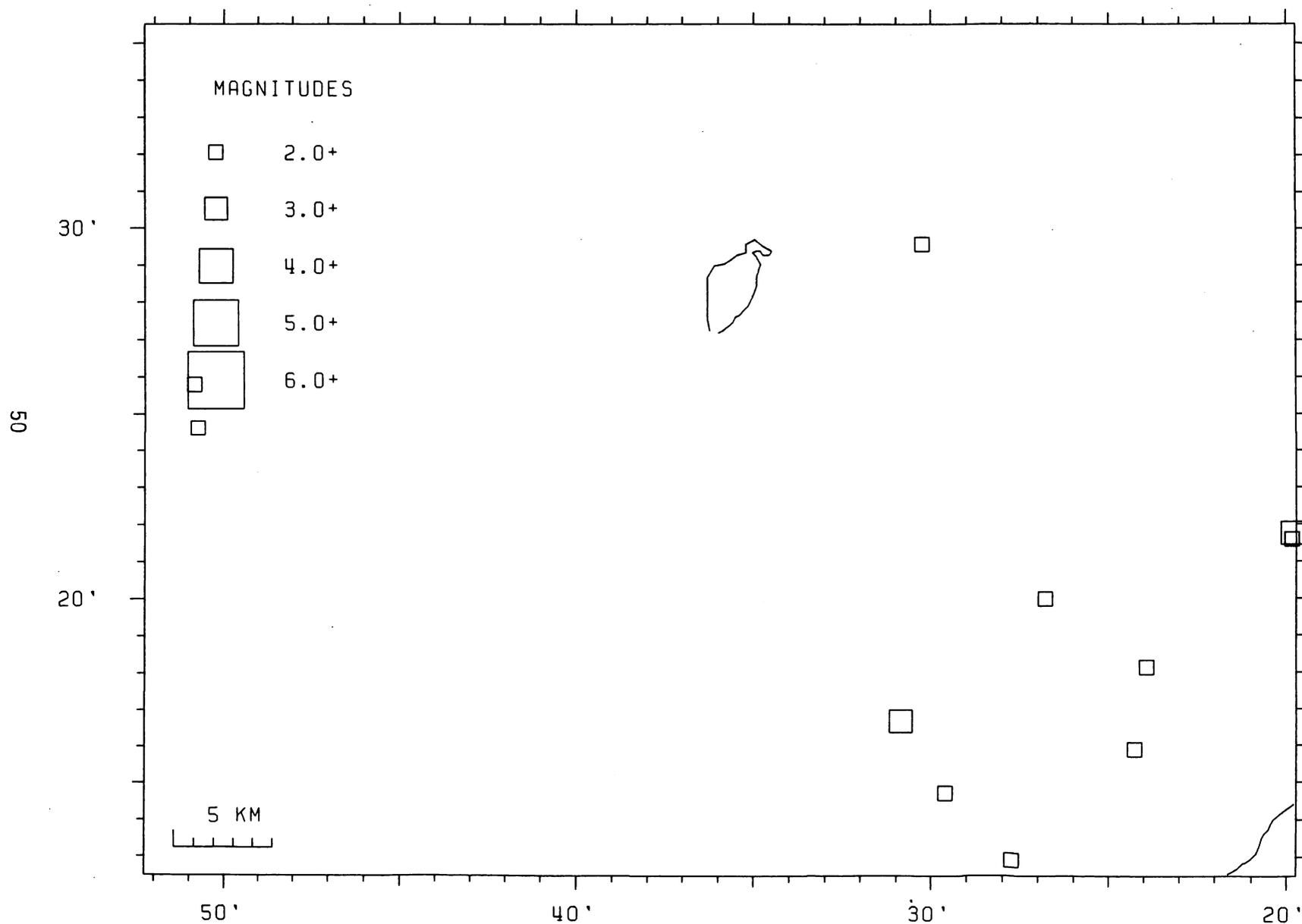


Figure 22

1985 HAWAII ISLAND EARTHQUAKE LOCATIONS  
0-60 KM DEPTHS, M $\geq$ 3.0

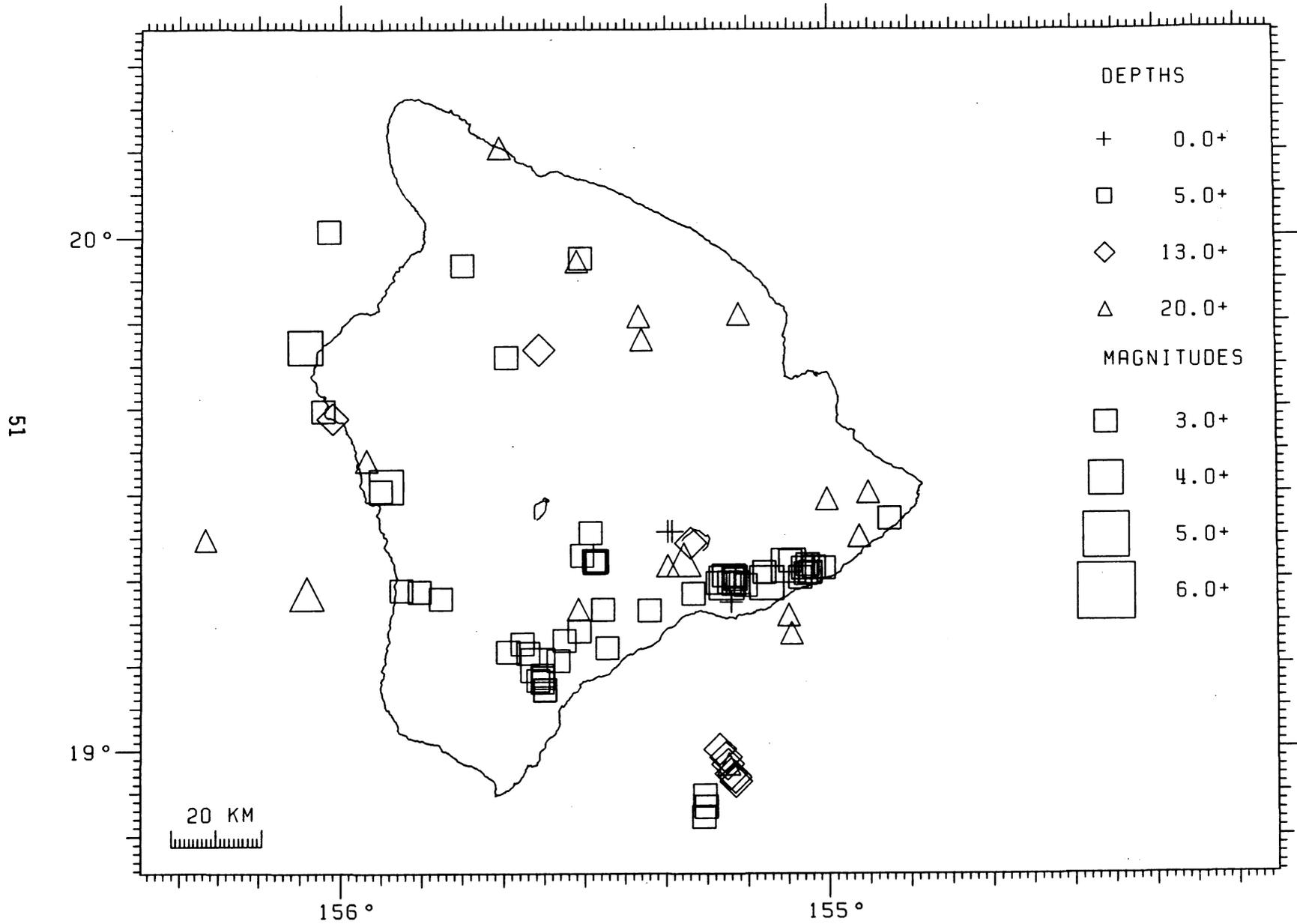


Table 5 is a chronological listing of successfully located earthquakes. For each event the following data are presented:

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 (LON W).

DEPTH - Depth of focus in km.

AMP MAG - Amplitude magnitude, if determined.

DUR MAG - Duration magnitude, if determined.

NR - Number of arrivals (P or S) used for solution.

NS - Number of S arrivals used for solution.

GAP DEG - Largest azimuthal separation in degrees between stations.

RMS SEC - Root mean square error of time residuals in second.

$$RMS = (\sum R_i^2 / NR)^{1/2}$$

MIN DIS - Epicentral distance in km to the third nearest station.

ERH km - Standard error of the epicenter in km.

ERZ km - Standard error of depth of focus in km.

REMK - Remarks, three letter code for geographic location of events. See Figures 5-8 for location of mnemonic code. Additional one letter codes have the following meanings:

F - felt

L - long period character

T - associated with harmonic tremor

B - quarry or other blast

\* - the location program had a convergence problem, which usually means that the depth may be unreliable.

Table 5 lists all events located during 1985. Table 6 lists only events of magnitude 3.0 or larger.

Table 5

1985 HVO EARTHQUAKE SUMMARY LIST																	1985 HVO EARTHQUAKE SUMMARY LIST																				
PAGE 1																	PAGE 2																				
YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ DIS	NO KM	REMK	YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ DIS	NO KM	REMK				
1985	JAN	1	221	44.91	19 22.84	155 1.70	7.94	2.4	2.3	41	5	137	.13	6	0.6	0.4	31	SF5	1985	JAN	8	047	47.55	19 22.38	155 2.19	7.79	1.9	1.4	34	4	141	.14	5	0.6	0.5	23	SF5
		1	648	56.85	19 24.05	155 25.46	9.00	1.8	1.9	35	4	32	.12	2	0.3	0.6	27	KAO			8	1 8	37.50	19 20.06	155 10.73	5.49	1.3	1.3	40	1	86	.16	4	0.5	1.0	34	SF3
		1	1037	10.10	19 19.84	155 13.25	7.97	1.5	1.8	37	4	69	.13	5	0.4	0.7	28	SF2			8	848	49.95	19 19.92	155 12.45	5.87	1.2	1.1	30	3	78	.12	5	0.4	0.9	23	SF2
		1	1153	46.95	19 17.97	155 22.02	6.78	1.8	2.2	31	3	112	.13	5	0.4	0.8	22	SWR			8	954	2.06	19 17.79	155 28.52	9.54	1.8	2.2	38	2	46	.14	8	0.4	0.7	32	LSW
		1	1310	47.57	19 23.00	155 25.72	9.92		1.1	21	2	47	.11	3	0.5	0.9	14	KAO			8	1046	38.57	19 20.42	155 12.85	6.52	1.2	1.3	27	1	67	.13	4	0.6	1.1	24	SF2
		1	1728	21.78	19 25.69	155 18.68	7.30	1.4	1.2	18	4	147	.13	2	0.7	1.2	13	INT			8	1335	37.90	19 43.03	155 2.43	0.00	2.1	2.7	35	2	197	.35	2	1.9	1.1	23	HIL B'
		1	19 1	6.38	19 19.68	155 53.31	12.09	1.4	1.6	15	1	187	.10	7	0.8	0.6	8	KON			8	1355	7.90	19 26.33	154 55.78	6.20	1.9	1.6	22	2	151	.13	2	0.6	0.8	15	LER
		2	129	21.78	19 18.82	155 15.54	6.73	1.6	1.6	28	1	100	.11	4	0.4	0.8	20	SF1			9	040	38.44	18 58.44	155 16.21	13.43	2.1	1.7	25	0	242	.11	29	2.6	0.7	20	LOI
		2	459	6.93	19 21.68	155 18.16	4.69	1.3	1.2	8	1	114	.12	3	0.8	2.0	7	SWR			9	041	25.68	18 57.21	155 16.15	12.39	2.1	1.7	23	1	242	.11	31	1.6	0.7	15	LOI
		2	5 0	44.34	19 24.49	155 16.76	11.41	1.2	0.7	8	1	146	.05	1	0.9	1.6	6	INT			9	045	38.10	18 57.68	155 15.98	12.68	2.1	2.4	27	1	238	.10	30	1.4	0.6	21	LOI
		2	514	38.46	19 24.12	155 38.17	9.70	2.4	2.2	39	4	49	.14	6	0.4	0.6	31	MLO			9	427	29.13	18 57.66	155 15.18	12.78	2.1	1.7	22	1	245	.12	31	1.7	0.7	11	LOI
		2	6 3	44.91	19 22.28	155 29.77	8.73	1.5	1.2	25	2	43	.09	4	0.4	0.9	18	KAO			9	8 0	49.31	19 19.28	155 12.37	2.30	1.3	1.0	18	1	144	.17	6	0.7	2.4	15	SSF
		2	1058	31.56	20 5.93	155 23.32	8.92	2.5	2.6	25	2	224	.18	24	1.4	0.8	17	KEA			9	855	56.44	19 10.60	155 30.24	28.42	2.1	2.4	45	2	104	.08	5	0.6	1.1	42	DLS
		2	1117	35.74	19 25.31	155 17.27	11.43	1.3	1.5	9	1	165	.04	1	0.9	1.3	7	INT			9	1538	33.50	18 44.14	155 12.62	14.43	2.4	2.5	27	3	286	.11	54	4.2	6.5	17	LOI
		2	1118	32.80	19 19.82	155 9.85	6.68	2.0	2.4	42	6	87	.13	4	0.4	0.8	31	SF3			9	2019	50.28	19 19.37	155 11.49	7.66	1.4	1.8	34	1	98	.10	6	0.5	0.9	30	SF3
		2	1935	51.81	19 21.64	155 4.40	8.18	1.7	1.9	30	4	78	.13	4	0.5	0.6	21	SF5			9	2148	59.75	19 19.38	155 15.53	7.25	2.0	2.5	42	4	90	.12	4	0.4	0.7	30	SF1
		2	2248	28.11	19 26.17	155 19.40	7.82	1.9	2.1	28	5	112	.11	4	0.4	0.6	19	KAO			10	1359	37.04	18 57.24	155 12.17	13.24	3.1	3.9	42	3	241	.12	36	1.5	0.9	36	LOI
		3	1014	54.72	19 22.41	155 30.00	8.62	1.5	1.4	30	3	45	.09	4	0.4	0.8	22	KAO			10	221	14.21	19 16.92	155 22.75	7.39	1.5	1.9	23	2	125	.11	6	0.5	1.1	17	SWR
		3	1818	18.71	19 20.87	155 2.37	6.87	2.9	3.3	46	5	152	.16	2	0.5	0.6	33	SF5			10	654	26.86	18 58.34	155 12.56	13.36	3.6	4.3	46	2	238	.10	34	1.2	0.6	40	LOI
		3	2016	27.07	19 22.47	155 27.63	9.31	2.0	1.5	37	5	39	.12	0	0.3	0.5	29	KAO			10	7 0	22.69	19 0.14	155 13.53	13.77	3.2	4.1	45	2	231	.11	31	1.2	0.6	33	LOI
		3	2236	49.07	19 19.54	155 8.10	7.14	1.6	1.3	35	3	91	.10	4	0.4	0.7	22	SF4			10	717	21.34	18 59.16	155 12.81	13.59	3.4	4.2	42	2	271	.10	33	1.6	0.6	35	LOI
		3	2255	14.39	19 19.50	155 11.91	5.19	1.8	1.7	17	0	92	.11	5	0.4	1.6	17	SF3			10	1553	17.44	19 30.52	155 28.84	5.22	2.0	1.5	37	6	54	.12	3	0.3	1.1	26	MLO
		3	2319	8.22	19 24.07	155 16.31	2.88	1.4	1.8	11	1	109	.09	2	0.4	0.4	9	SEC			10	1844	38.96	19 17.28	155 24.95	8.47	1.0	1.2	20	2	83	.09	6	0.5	1.0	12	SWR
		4	229	29.42	19 24.35	155 17.34	2.88	1.4	1.1	9	1	81	.11	1	0.6	0.5	9	SSC			10	2120	5.15	19 19.98	155 12.81	7.69	1.3	1.5	20	1	73	.08	5	0.6	1.3	19	SF2
		4	639	24.11	19 27.75	155 23.74	3.84	1.4	1.6	20	1	81	.10	4	0.4	1.0	12	KAO			11	131	52.00	19 25.70	155 21.88	8.08	1.5	1.4	35	5	33	.13	4	0.4	0.8	25	KAO
		4	9 7	23.41	19 16.79	155 23.01	1.42		1.0	18	1	114	.14	5	0.4	1.2	16	SWR			11	4 5	11.87	19 22.66	155 20.77	9.12	1.7	1.4	37	4	45	.11	3	0.4	0.6	24	KAO
		4	16 3	37.50	19 22.34	155 21.40	7.73	1.2	1.1	23	3	51	.12	5	0.4	1.1	18	KAO			11	2121	35.55	19 20.39	155 12.88	6.09	1.2	1.1	22	0	87	.14	4	0.6	1.4	18	SF2
		4	1820	42.05	19 19.28	155 10.45	7.38	1.6	1.3	19	0	103	.10	5	0.6	1.2	14	SF3			12	120	1.04	19 30.00	155 3.55	11.14	1.6	1.4	26	0	117	.11	1	0.6	0.9	20	GLN
		4	2223	44.92	19 25.14	155 19.27	5.20	1.3	1.2	19	3	108	.10	3	0.4	1.2	16	KAO			12	1153	24.97	19 20.62	155 11.88	8.95	2.5	3.0	54	7	72	.12	4	0.3	0.4	39	SF3
		5	116	33.40	19 21.59	155 54.56	40.92	2.8	3.0	40	6	273	.08	23	1.0	0.9	33	KON			12	1841	22.35	20 22.58	155 52.84	29.22	2.3	2.0	27	4	314	.12	30	2.1	1.5	24	KOH
		5	2 5	44.58	19 30.58	155 54.67	11.30	2.8	2.8	30	3	184	.15	3	0.9	0.5	22	KON			14	140	10.39	19 17.59	155 14.35	6.97	2.0	2.2	25	1	115	.09	2	0.6	0.9	18	SF2
		5	10 8	37.30	19 18.78	155 10.76	7.78	1.5	1.6	19	1	119	.07	6	0.5	1.1	16	SF3			14	725	18.47	19 21.74	155 5.35	7.77	3.0	2.7	46	6	82	.12	4	0.4	0.5	34	SF4
		5	1057	20.03	19 27.35	155 20.69	11.58	1.9	1.8	30	4	99	.10	1	0.4	0.6	18	KAO			15	037	19.89	19 22.22	155 26.24	9.57	1.5	1.1	19	2	75	.11	2	0.5	1.0	14	KAO
		5	1212	11.06	19 19.72	155 12.55	5.59	1.2	1.2	24	0	80	.13	5	0.5	1.2	19	SF2			15	1125	3.43	19 19.67	155 12.21	5.74	1.2	1.6	32	3	86	.12	5	0.5	1.2	24	SF3
		5	1520	5.00	19 19.89	155 16.69	36.13	2.5	2.8	52	7	91	.11	1	0.6	0.9	42	DEP			15	1139	25.88	19 20.56	155 12.99	8.87	3.1	3.7	49	5							

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 3

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LOM W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ NO DIS KM	ERZ NO FM	REMK
1985	JAN	16	2210	34.72	19 25.97	155 28.92	8.37	1.8	1.5	34	3	60	.12	7	0.4	0.9 23 KAO
		16	2240	29.91	19 23.63	154 58.64	6.43	1.8	1.6	26	1	167	.13	3	0.8	0.9 18 LER
		17	0 9	58.29	19 22.77	155 2.16	8.66	1.6	1.2	28	2	139	.15	5	0.8	0.5 19 SF5
		17	411	16.90	19 18.79	155 13.02	5.67	1.3	1.3	29	1	88	.11	3	0.5	1.3 21 SF2
		17	19 5	7.26	19 27.37	155 23.57	10.52	1.9	1.3	38	5	48	.10	5	0.4	0.6 28 KAO
		17	2154	11.02	19 17.54	155 27.89	8.77	1.8	2.0	34	3	50	.17	6	0.5	0.8 26 LSW
		18	820	20.05	19 26.86	155 28.52	7.02	1.6	1.2	30	4	58	.14	7	0.4	1.4 21 KAO
		18	1039	45.39	19 27.64	155 25.11	10.45	1.6	1.3	35	1	63	.10	5	0.6	1.7 13 KAO
		18	2158	33.76	19 24.04	155 15.70	2.63	0.7	1.0	8	1	124	.08	3	0.4	0.6 6 SEC
		19	126	53.76	19 23.96	155 15.68	3.26	1.1	1.7	17	3	111	.07	2	0.3	0.3 12 SEC
		19	434	30.99	19 20.23	155 26.84	4.79	1.6	1.4	22	4	116	.12	4	0.4	1.3 10 HLO
		19	534	18.44	19 20.55	155 13.18	7.17	1.5	1.3	27	2	63	.12	4	0.5	0.9 22 SF2
		19	1121	38.42	19 20.05	155 12.34	7.20	1.9	2.2	45	3	77	.13	5	0.4	0.7 36 SF2
		19	1650	22.05	19 20.11	155 3.86	6.91	1.6	1.5	32	1	133	.13	2	0.6	0.7 26 SF5
		19	19 1	5.04	19 19.70	155 12.30	5.53	1.2	1.3	30	2	84	.12	5	0.5	1.2 27 SF2
		19	2319	36.47	19 26.68	155 28.94	8.97	1.9	1.3	35	5	43	.09	7	0.3	0.8 28 KAO
		19	2323	54.30	19 19.21	155 13.62	5.08	1.9	2.5	44	2	66	.13	4	0.4	1.2 37 SF2
		20	951	16.83	19 44.52	155 57.49	14.34	1.6	1.4	21	1	256	.10	14	1.9	0.6 12 HUA
		20	1210	52.58	19 21.33	155 24.31	9.15	1.5	1.1	29	3	82	.12	3	0.5	0.8 20 SWR
		20	1342	7.21	19 20.59	155 30.10	3.77	1.8	1.8	23	1	63	.11	6	0.4	2.3 21 KAO
		20	1615	47.28	19 13.38	155 29.81	10.00	1.8	1.2	22	1	74	.11	3	0.5	0.9 18 LSW
		20	17 3	43.82	19 25.56	155 19.43	6.20	1.4	1.3	23	2	124	.11	3	0.5	1.1 19 KAO
		20	1740	36.04	19 22.79	155 21.06	9.48	1.3	1.3	33	3	47	.10	3	0.4	0.8 22 KAO
		20	2232	59.07	19 21.43	155 23.24	7.55	1.2	1.1	17	3	59	.08	2	0.4	0.9 12 SWR
		20	2258	46.40	20 13.75	155 45.52	39.31	2.6	2.3	24	2	298	.12	11	2.7	1.6 17 KOH
		21	313	23.51	19 19.68	155 11.29	8.80	2.8	3.4	51	6	92	.12	5	0.3	0.4 38 SF3
		21	717	40.47	19 19.92	155 11.76	6.51	1.7	1.3	32	3	85	.11	5	0.4	0.8 23 SF3
		21	840	45.24	18 55.70	155 11.26	12.04	2.6	3.2	38	2	248	.13	39	1.5	0.8 21 LOI
		21	852	28.31	18 56.82	155 11.64	15.43	3.5	4.4	54	7	243	.12	37	1.2	4.0 48 LOI
		21	855	50.83	18 56.34	155 11.57	13.45	2.7	3.5	44	2	245	.12	38	1.6	1.3 30 LOI
		21	1053	41.30	19 21.08	155 21.77	8.75	1.6	1.8	30	4	62	.12	3	0.4	0.8 21 SWR
		21	12 4	59.26	19 28.19	155 26.39	3.18	1.8	1.6	30	4	78	.16	6	0.4	1.5 24 KAO
		21	1731	22.28	19 24.07	155 15.74	3.51	0.9	1.2	11	2	117	.09	2	0.4	0.4 7 SEC
		22	542	30.79	19 25.85	155 27.16	7.45	1.8	1.9	37	4	46	.14	4	0.4	0.8 28 KAO
		22	1410	43.61	19 22.83	155 26.78	9.20	1.4	1.1	31	3	49	.13	2	0.4	0.7 25 KAO
		22	2050	48.02	19 21.65	155 0.94	6.97	2.3	2.8	41	5	171	.14	5	0.5	0.6 30 SF5
		22	2314	9.94	19 21.96	155 2.87	7.58	2.1	2.3	40	4	119	.13	4	0.4	0.6 31 SF5
		23	225	23.06	19 13.62	155 29.77	9.49	1.7	1.4	22	0	74	.10	3	0.4	0.9 18 LSW
		23	1813	20.68	19 20.06	155 7.88	7.08	2.1	2.4	45	6	91	.12	5	0.4	0.7 35 SF4
		23	1854	59.93	19 20.57	155 13.02	6.89	1.4	1.2	33	3	64	.12	4	0.5	0.8 29 SF2
		23	1951	13.48	19 20.34	155 4.91	4.96	1.4	1.5	22	1	122	.15	4	0.6	1.8 16 SSF
		23	2216	40.28	19 20.62	155 12.62	7.29	1.5	1.8	36	4	67	.12	4	0.5	0.8 25 SF2
		23	2252	14.79	19 23.88	155 15.67	2.84	1.1	1.6	19	3	96	.11	2	0.3	0.3 14 SEC
		23	2253	56.33	19 14.36	155 35.21	9.41	2.1	2.0	37	3	79	.21	3	0.6	0.9 27 LSW
		24	337	39.13	19 19.90	155 10.71	6.57	2.3	2.5	38	2	89	.17	4	0.5	1.0 32 SF3

54

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 4

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LOM W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ NO DIS KM	ERZ NO FM	REMK
1985	JAN	24	1722	39.01	19 23.45	155 29.80	8.48	1.2	1.1	23	2	68	.08	4	0.4	0.9 19 KAO
		25	410	59.83	19 20.34	155 3.61	8.61	2.8	3.2	45	3	112	.12	1	0.6	0.5 39 SF5
		25	1340	31.00	19 21.32	155 17.67	30.52	2.2	2.8	46	7	31	.12	2	0.6	0.9 33 DEP
		25	1611	33.80	19 10.35	155 37.69	8.22	2.3	1.9	28	1	102	.18	9	0.8	1.5 26 LSW
		25	1645	13.15	19 24.05	155 17.76	14.08	1.6	1.9	10	1	59	.14	2	1.0	1.3 4 DEP L
		25	1748	13.12	19 23.45	155 16.64	5.87	1.3	2.1	13	0	84	.10	1	0.6	0.9 3 INT L
		25	1956	56.31	19 19.22	155 15.31	7.14	1.3	1.8	34	2	99	.10	4	0.4	0.8 25 SF1
		25	2136	19.57	19 17.02	155 21.97	4.72	1.4	1.8	29	4	143	.12	6	0.4	2.5 23 SWR
		25	2330	9.16	19 19.80	155 7.65	8.14	1.5	1.3	25	2	99	.08	5	0.5	1.0 18 SF4
		25	2336	24.72	19 18.91	155 15.22	6.82	1.2	1.5	25	1	104	.11	4	0.5	1.0 19 SF1
		26	117	25.75	18 47.96	155 9.43	15.62	2.2	1.8	35	5	268	.10	51	2.2	5.8 23 LOI
		26	133	15.41	19 20.23	155 7.76	6.69	1.4	1.5	35	3	91	.12	5	0.5	0.7 26 SF4
		26	153	18.86	19 25.72	155 21.99	8.65	1.3	1.1	30	2	42	.12	4	0.4	0.8 25 KAO
		26	821	52.43	19 21.03	155 29.25	4.80	1.7	1.8	24	2	45	.12	4	0.4	1.4 17 KAO
		26	1148	43.27	19 19.14	155 15.16	5.98	1.2	1.1	23	1	99	.12	4	0.5	1.3 16 SF1
		26	1733	3.09	19 19.13	155 15.68	5.49	1.2	1.5	29	0	104	.11	4	0.4	1.1 23 SF1
		26	1810	24.52	19 35.85	154 59.84	42.91	1.9	1.7	42	5	171	.11	12	0.9	1.5 26 HIL
		27	039	34.11	19 21.69	155 6.40	6.68	1.8	2.5	38	3	81	.12	3	0.5	0.9 27 SF4
		27	132	58.10	19 14.27	155 37.04	8.67	2.3	2.5	37	4	142	.19	1	0.6	1.0 28 LSW
		27	153	58.62	19 25.27	155 19.77	4.76	0.9	1.1	15	2	116	.10	3	0.5	1.3 13 KAO
		27	824	34.36	19 23.52	155 29.99	9.34	1.4	1.2	21	2	45	.07	5	0.4	1.0 18 KAO
		27	1625	33.69	19 23.55	155 18.06	9.27	1.4	1.9	12	1	50	.12	3	0.7	1.6 1 INT L
		27	1923	8.31	19 20.30	155 12.41	7.03	1.2	1.5	32	1	73	.12	4	0.5	0.8 23 SF2
		27	22 3	19.19	19 19.57	155 11.66	6.14	1.8	2.2	38	3	92	.14	6	0.5	1.0 27 SF3
		28	0 6	10.12	19 27.20	154 52.66	8.36	2.7	3.3	40	3	153	.13	3	0.8	0.4 34 LER
		28	040	6.21	19 56.38	155 30.74	32.89	2.3	1.7	34	6	160	.08	18	0.6	1.3 28 KEA
		28	146	30.21	19 21.03	155 12.76	7.31	1.9	2.6	41	5	61	.13	3	0.4	0.6 32 SF2
		28	341	6.56	19 17.23	155 13.44	11.31	2.6	3.3	51	6	153	.12	9	0.6	0.4 44 SF2
		28	530	12.80	19 22.53	155 30.09	9.21	1.6	1.3	28	3	45	.08	4	0.4	0.8 21 KAO
		28	15 4	8.69	19 22.98	155 1.86	7.76	2.0	1.7	35	3	143	.15	5	0.6	0.5 24 SF5
		28	1559	0.99	19 20.44	155 10.73	7.62	1.8	1.9	43	3	79	.12	3	0.4	0.7 34 SF3
		28	19 7	54.02	19 22.52	155 8.59	2.08	1.5	1.4	17	2	130	.07	2	0.7	0.4 12 SER
		28	2036	33.47	19 20.08	155 12.99	5.98	1.3	1.4	25	3	70	.11	5	0.4	1.0 21 SF2
		28	2257	30.38	19 11.74	155 27.61	7.59	2.0	1.3	33	4	113	.19	4	0.7	1.6 22 LSW
		28	2257	58.99	19 15.72	155 22.66	6.14	1.8	2.1	29	3	154	.11	4	0.5	1.2 24 SWR
		29	434	55.65	19 17.69	155 30.21	9.83	1.7	1.5	32	2	69				

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 5

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 6

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM REMK
1985	JAN	31	223	16.90	19 19.66	155 12.46	7.99	1.3	1.2	21	2	82	.06	5	0.4	0.7 15 SF2
		31	1336	27.60	19 43.06	155 3.75	0.01	1.6	2.3	19	1	221	.21	3	2.7	1.5 15 HIL
		31	1741	10.20	19 28.90	154 53.36	0.07	2.4	2.5	23	1	105	.18	4	0.5	0.9 16 SLE
		31	1757	11.72	19 20.60	155 11.86	8.81	2.9	3.1	38	4	72	.13	4	0.4	0.5 33 SF3
		31	2143	29.14	19 28.37	155 28.56	10.08	1.9	1.3	26	3	58	.10	7	0.4	0.8 22 KAO
	FEB	1	1717	12.58	19 9.83	155 41.36	8.57	2.7	1.9	30	2	129	.25	12	0.9	1.6 18 LSW
		1	2036	15.17	19 20.60	155 12.49	7.46	1.6	1.5	29	3	68	.12	4	0.5	0.8 24 SF2
		1	2233	28.59	19 8.42	155 34.72	7.97	1.3	1.3	16	0	128	.12	12	0.6	2.1 11 LSW
		1	23	1 22.36	19 20.62	155 9.42	7.89	1.6	1.3	30	4	70	.10	3	0.5	0.8 22 SF3
		1	2314	44.44	19 23.13	155 17.08	11.49	1.6	1.2	39	6	38	.10	1	0.4	0.5 28 INT
		2	224	34.45	19 14.73	155 29.61	40.78	2.6	2.1	42	5	88	.09	1	0.6	1.1 34 DLS
		2	257	18.15	19 21.34	155 0.75	6.76	1.7	1.1	23	1	180	.11	5	0.7	1.2 16 SFS
		2	814	9.03	19 24.07	155 15.56	3.19	1.2	1.2	13	3	117	.07	2	0.4	0.5 7 SEC
		2	7	8 47.51	19 24.97	155 19.14	5.23	1.3	1.0	16	3	101	.10	3	0.7	1.6 12 KAO
		2	927	18.92	19 27.55	155 27.73	9.61	2.4	2.1	40	4	53	.15	6	0.4	0.7 27 KAO
		2	1328	2.67	19 21.84	155 18.31	2.39	1.4	1.5	15	2	66	.09	4	0.3	0.8 8 SWR
		2	15	8 32.47	19 20.05	155 13.03	6.57	1.8	1.9	34	4	69	.12	5	0.4	0.7 23 SF2
		2	1526	30.66	19 22.95	155 26.70	10.73	2.5	2.5	43	4	40	.12	2	0.3	0.5 32 KAO
		2	1912	15.91	19 25.12	155 20.72	2.94	0.7	1.2	13	1	84	.05	5	0.4	1.1 7 KAO
		2	1957	30.29	19 20.11	155 9.47	7.20	1.5	1.1	22	0	79	.09	4	0.6	1.2 17 SF3
		3	542	11.42	19 21.64	155 5.15	6.09	1.6	1.2	25	3	83	.13	5	0.5	1.1 16 SFS
		3	1528	49.20	19 22.74	155 3.65	7.93	1.3	1.2	15	1	104	.11	4	0.6	1.0 7 SFS
		3	23	7 44.43	19 19.62	155 30.44	8.28	1.6	1.4	30	1	58	.13	7	0.5	1.2 24 KAO
		3	2342	11.24	19 17.05	155 25.48	5.37	0.9	0.9	14	0	129	.18	7	0.8	2.2 9 LSW
		4	123	49.02	19 26.29	155 28.91	6.63	1.5	1.1	16	0	83	.07	7	0.5	1.8 12 KAO
		4	315	51.81	19 22.07	155 17.47	31.65	1.7	1.6	34	2	40	.08	3	0.6	0.9 27 DEF
		4	4	8 16.79	19 21.86	155 12.76	3.08	1.1	1.2	13	0	87	.05	2	0.4	0.5 12 SER
		4	744	10.03	19 18.69	155 12.26	5.29	1.3	1.1	24	2	107	.10	4	0.5	1.0 19 SF3
		4	1217	14.44	19 23.73	155 15.71	2.84	1.6	2.1	27	4	81	.10	2	0.3	0.3 18 SEC
		4	1218	36.33	19 20.17	155 11.54	7.06	1.6	1.8	31	3	82	.11	5	0.5	0.8 25 SF3
		4	2134	2.27	19 23.95	155 16.14	2.96	1.3	1.8	17	3	107	.09	1	0.4	0.3 9 SEC
		4	2338	33.19	19 23.87	155 15.72	2.55	1.1	1.1	16	3	107	.09	2	0.4	0.3 7 SEC
		5	3	0 57.53	19 24.24	155 17.35	1.63	1.2	2.1	14	2	81	.08	1	0.4	0.2 9 SSC
		5	1149	29.83	19 25.79	155 28.95	8.44	1.6	1.1	26	2	41	.11	7	0.4	1.0 20 KAO
		5	15	9 8.12	19 23.56	155 30.11	8.09	1.8	1.3	26	2	49	.09	5	0.4	1.0 20 KAO
		5	1614	42.03	19 21.45	155 4.64	6.75	1.4	1.2	23	2	85	.11	4	0.5	0.8 15 SFS
		6	630	51.77	19 22.32	155 29.89	8.94	2.1	2.9	32	1	45	.11	4	0.4	0.7 24 KAO
		6	752	1.86	19 22.80	155 30.27	8.42	2.4	2.0	41	3	47	.11	5	0.3	0.6 34 KAO
		6	858	25.67	19 22.04	155 2.32	0.01	1.5	1.8	25	1	134	.20	4	0.5	1.0 18 SSF
		6	945	41.62	19 27.15	155 29.54	8.98	1.5	1.4	31	4	87	.09	7	0.4	0.9 23 KAO
		6	1458	9.92	19 25.76	155 21.86	9.47	1.5	1.3	28	2	44	.11	4	0.4	0.7 20 KAO
		7	445	6.67	19 23.25	155 27.26	9.45	1.4	1.3	27	3	33	.11	2	0.4	0.7 19 KAO
		7	7	7 25.82	19 19.44	155 10.37	9.23	2.9	3.4	47	7	99	.12	5	0.4	0.4 38 SF3
		7	8	1 36.60	19 18.84	155 13.27	6.32	1.7	1.9	30	5	80	.10	3	0.4	0.8 21 SF2
		7	13	0 3.23	19 20.66	155 6.44	7.39	2.1	1.1	38	5	102	.11	5	0.4	0.6 28 SF4

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM REMK
1985	FEB	8	430	13.83	19 13.43	155 27.69	8.27	2.4	2.0	38	0	141	.15	5	0.6	0.8 30 LSW F
		8	2041	52.85	19 22.49	155 30.12	9.67	2.1	2.1	34	2	42	.10	4	0.4	0.7 27 KAO
		8	2252	54.22	19 26.60	155 28.81	8.40	1.8	1.8	35	3	58	.12	7	0.4	0.9 27 KAO
		8	2323	33.66	19 30.46	155 23.05	8.40	2.2	2.0	39	6	73	.14	1	0.4	0.7 29 MLO
		9	241	21.25	19 18.83	155 9.85	6.79	1.5	1.1	19	0	114	.09	4	0.5	1.3 14 SF3
		9	259	15.06	19 20.23	155 12.70	7.45	1.5	1.9	33	1	71	.12	5	0.5	0.8 29 SF2
		9	4	9 11.96	19 21.22	155 1.69	0.53	2.0	2.8	27	2	166	.10	3	0.4	0.8 18 SSF
		9	446	21.30	20 48.97	154 53.28	9.73	2.6	2.8	37	1	307	.13	13	7.7	9.5 34 DIS
		9	843	34.34	19 22.35	155 28.96	10.67	2.9	3.1	47	2	35	.12	2	0.3	0.4 44 KAO
		9	850	53.90	19 22.39	155 30.05	9.35	1.7	1.1	21	2	51	.07	4	0.5	1.0 18 KAO
		9	1059	32.07	19 21.05	155 28.01	9.54	1.8	1.8	30	2	49	.12	3	0.4	0.6 23 KAO
		9	18	6 58.88	19 20.02	155 12.71	5.89	1.3	1.9	33	2	74	.12	6	0.4	0.9 29 SF2
		9	19	7 44.84	19 18.76	155 15.24	4.88	1.0	1.3	26	1	107	.12	4	0.5	1.5 19 SSF
		9	2240	11.80	19 21.48	155 30.16	7.52	1.7	1.3	32	3	46	.13	5	0.5	1.0 25 KAO
		10	113	40.60	19 57.65	155 30.58	12.77	3.1	3.6	50	7	170	.14	19	0.9	1.5 42 KEA
		10	1644	16.32	19 20.81	155 13.37	6.35	1.7	1.9	41	3	58	.14	3	0.4	0.8 32 SF2
		10	1828	22.80	19 25.94	155 30.53	7.90	2.0	1.7	29	4	86	.12	8	0.4	1.1 18 KAO
		10	2350	20.22	19 19.48	155 12.58	5.13	1.0	1.1	26	0	84	.11	5	0.5	1.7 16 SF2
		11	918	43.66	19 21.16	155 15.29	32.75	2.6	2.6	48	7	68	.12	3	0.5	0.9 39 DEF
		11	12	5 19.46	19 19.30	155 11.89	6.18	1.3	1.1	24	1	97	.12	5	0.5	1.2 18 SF3
		11	1249	27.04	19 25.63	155 29.28	8.06	1.7	1.1	25	2	63	.11	7	0.4	1.1 22 KAO
		11	1758	24.86	19 25.51	155 29.17	8.93	1.9	1.5	31	3	69	.08	6	0.4	0.8 21 KAO
		11	1952	17.67	19 19.76	155 12.38	8.60	2.8	3.2	45	6	82	.10	5	0.3	0.3 33 SF2
		11	2022	54.84	19 22.49	155 30.04	9.24	1.7	1.5	28	3	45	.10	4	0.4	0.8 23 KAO
		11	2055	42.55	19 20.60	155 12.58	8.18	2.5	3.0	51	6	104	.14	4	0.4	0.4 40 SF2
		12	0	3 1.40	19 22.20	155 3.26	8.50	1.8	1.7	26	2	116	.10	4	0.5	0.7 18 SFS
		12	219	33.49	19 19.55	155 12.42	8.26	1.4	1.1	21	1	85	.04	5	0.5	0.9 15 SF2
		12	436	43.53	19 19.71	155 7.82	7.59	1.9	2.3	37	6	97	.10	4	0.4	0.6 28 SF4
		12	742	53.16	19 24.90	155 19.62	5.25	1.0	1.1	14	1	112	.07	2	0.5	1.3 12 KAO
		12	13	3 52.72	19 19.73	155 10.31	7.53	1.5	1.3	24	1	92	.06	4	0.5	1.1 18 SF3
		12	1922	9.33	19 18.62	155 25.20	8.90	1.0	1.3	23	2	68	.11	5	0.5	0.9 18 LSW
		12	2123	25.98	19 19.35	155 15.27	6.64	1.3	1.3	25	0	96	.10	4	0.5	1.1 21 SF1
		12	2230	2.42	19 19.75	155 12.23	6.69	1.3	1.3	25	1	84	.10	5	0.5	1.1 22 SF3
		12	2248	32.37	19 20.02	155 11.37	7.79	1.4	1.1	23	1	85	.11	5	0.6	1.1 18 SF3
		13	453	54.84	19 27.64	155 24.24	9.84	1.8	1.5	14	0	68	.09	4	0.7	1.8 14 KAO
		13	541	55.38	19 27.74	155 24.22	10.62	1.9	1.4	24	2	69	.11	4	0.5	0.8 22 KAO
		13	10	6 35.43	19 23.79	155 1.57	6.26	1.5	1.5							

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 7

YEAR	MON	ORIGIN DA	TIME HRMN SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1985	FEB	15	18 0 14.49	19 27.40	155 13.35	34.88	2.0 1.8 47	6 39	.11	5	0.5	1.0 38	DEF				
		15	1923 46.04	19 15.94	155 21.81	8.66	1.6 1.6 24	3 169	.10	5	0.6	1.2 18	SWR				
		15	2134 14.79	19 20.56	155 9.99	7.76	1.5 1.5 29	3 74	.10	3	0.5	0.7 21	SF3				
		16	025 26.26	19 19.98	155 11.56	7.29	1.4 1.1 30	3 85	.15	5	0.6	1.0 27	SF3				
		16	045 23.51	19 17.44	155 20.34	6.64	1.5 1.1 18	4 158	.09	3	0.6	1.2 15	SWR				
		16	113 8.04	19 19.57	155 12.29	8.00	1.4 1.2 16	1 86	.07	5	0.5	1.1 15	SF3				
		16	4 2 21.44	19 21.76	155 6.83	7.60	1.5 1.1 24	0 78	.11	3	0.5	1.0 21	SF4				
		16	634 55.47	19 20.83	155 29.49	6.67	2.4 2.3 35	2 45	.12	5	0.4	0.8 31	KAO				
		16	20 7 57.85	19 27.62	155 51.23	8.01	2.6 2.6 34	5 110	.15	7	0.5	0.6 25	KON				
		17	215 55.35	19 25.99	155 19.60	6.25	1.2 1.5 11	1 106	.13	4	0.9	1.5 5	KAO L				
		17	524 52.59	19 20.55	155 11.64	7.64	1.9 1.7 39	5 75	.13	4	0.5	0.7 32	SF3				
		17	352 32.83	19 19.80	155 10.70	9.24	2.7 2.8 47	6 91	.10	4	0.3	0.4 34	SF3				
		17	343 43.80	19 29.62	155 14.50	11.13	1.8 1.9 12	1 237	.13	10	1.7	1.7 2	GLM L				
		17	544 23.05	19 19.31	155 26.68	9.15	1.6 1.3 34	3 53	.13	6	0.4	0.7 25	KAO				
		17	614 9.77	19 24.65	155 16.90	6.89	1.4 1.8 14	1 86	.17	1	0.8	1.1 11	IHT L				
		17	646 52.45	19 19.74	155 11.41	7.11	1.4 1.2 26	2 90	.11	5	0.6	1.1 18	SF3				
		17	1232 54.55	19 24.88	155 16.08	14.51	1.7 1.3 15	3 150	.10	3	1.1	1.1 4	DEF L				
		17	1313 2.07	19 22.63	155 2.92	8.42	2.0 1.6 30	3 124	.15	4	0.6	0.7 21	SF2				
		17	19 0 27.03	19 17.03	155 24.99	8.62	1.7 1.7 31	3 72	.14	5	0.4	0.8 22	SWR				
		17	2058 35.89	19 25.33	155 20.76	9.12	2.3 2.2 48	6 38	.12	4	0.3	0.4 38	KAO				
		17	2318 11.24	19 27.24	155 16.02	12.45	1.6 1.3 11	2 233	.11	4	1.8	1.1 1	INT L				
		17	2321 57.15	19 24.69	155 16.89	3.65	1.0 1.2 12	0 107	.10	2	0.5	0.6 8	SNC L				
		17	2342 16.80	19 20.61	155 12.97	9.04	1.6 1.2 18	3 64	.06	4	0.6	1.0 14	SF2				
		17	2343 27.59	19 20.23	155 11.37	8.56	2.4 2.3 45	5 81	.12	4	0.4	0.5 35	SF3				
		18	419 31.76	19 14.93	155 35.34	7.66	2.8 2.7 41	3 103	.17	3	0.5	0.8 35	LSW				
		18	6 5 30.04	19 22.41	155 26.94	9.80	2.9 2.9 47	6 39	.14	1	0.3	0.5 33	KAO				
		19	223 34.30	19 19.61	155 12.39	5.73	1.3 1.3 24	1 84	.11	5	0.5	1.4 18	SF2				
		19	526 7.19	19 18.81	155 15.20	5.52	1.4 1.6 28	1 105	.11	4	0.4	1.2 23	SF1				
		19	754 59.07	19 18.42	155 13.07	6.06	1.4 1.5 28	1 94	.09	3	0.5	0.8 23	SF2				
		19	911 10.78	19 20.84	155 2.89	6.87	2.6 3.0 38	5 124	.10	2	0.4	0.5 30	SF5				
		19	1424 26.24	19 20.55	155 12.76	6.61	1.3 1.5 26	2 66	.11	4	0.5	0.7 23	SF2				
		19	1447 42.35	19 18.98	155 14.71	6.08	1.3 1.3 22	1 95	.10	4	0.5	1.1 19	SF1				
		19	18 6 21.53	19 17.75	155 23.66	8.61	1.8 1.9 31	3 92	.14	5	0.4	0.8 23	SWR				
		19	2130 16.45	19 20.04	155 7.25	7.76	2.4 2.6 38	3 104	.09	5	0.4	0.6 29	SF4				
		20	353 13.64	19 21.86	155 6.95	8.97	1.6 2.2 26	1 75	.07	3	0.4	0.8 19	SF4				
		20	923 16.49	19 19.33	155 11.15	6.00	1.4 1.0 24	3 101	.10	6	0.5	1.3 20	SF3				
		20	1033 21.04	19 22.38	155 29.77	9.68	2.7 2.9 38	2 34	.10	4	0.4	0.7 35	KAO				
		20	1242 52.52	19 25.26	155 30.48	9.25	2.0 1.2 29	3 59	.10	7	0.4	1.1 23	KAO				
		20	13 5 34.28	19 25.48	155 30.26	9.41	2.3 2.2 39	4 38	.12	7	0.3	0.9 31	KAO				
		20	1321 23.20	19 18.35	155 13.34	7.13	1.8 1.8 39	2 84	.10	2	0.5	0.7 29	SF2				
		20	1414 25.33	19 18.03	155 13.19	6.50	1.3 1.2 22	2 98	.08	2	0.5	1.0 18	SF2				
		20	2311 43.82	19 23.60	155 27.08	9.75	1.4 1.3 23	3 79	.10	2	0.4	0.9 16	KAO				
		21	855 48.70	19 20.42	155 12.91	8.08	1.9 1.6 39	3 66	.11	4	0.4	0.6 29	SF2				
		21	926 29.78	19 23.17	155 25.46	9.99	2.0 1.8 41	3 30	.12	4	0.4	0.6 31	KAO				
		21	1035 3.26	19 20.43	155 12.95	6.72	1.3 1.0 24	0 65	.12	4	0.5	0.9 21	SF2				

56

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 8

YEAR	MON	ORIGIN DA	TIME HRMN SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1985	FEB	21	1948 29.39	19 19.68	155 12.65	9.45	4.8 4.7 48	3 80	.10	5	0.4	0.4 43	SF2 F				
		21	1957 17.40	19 19.40	155 12.08	7.00	1.7 1.3 30	3 92	.10	5	0.5	0.9 21	SF3				
		21	1959 49.80	19 25.52	155 21.23	9.93	1.9 1.3 37	5 34	.10	4	0.4	0.7 30	KAO				
		21	20 3 9.26	19 20.39	155 12.62	6.25	1.5 0.9 27	2 70	.14	4	0.5	1.1 18	SF2				
		21	20 5 29.56	19 20.49	155 12.30	7.93	2.3 2.2 45	4 71	.12	4	0.4	0.6 39	SF3				
		21	20 9 7.79	19 20.23	155 12.03	4.20	1.3 0.3 17	1 143	.12	5	0.8	2.4 11	SSF				
		21	2030 34.01	19 20.44	155 11.88	8.46	2.2 1.8 45	4 75	.11	5	0.4	0.6 38	SF3				
		21	2049 6.44	19 19.27	155 12.04	7.30	1.3 1.0 21	1 95	.10	5	0.6	1.1 17	SF3				
		21	2139 47.61	19 20.14	155 12.07	7.85	1.6 0.9 21	1 78	.08	5	0.6	1.0 15	SF3				
		21	22 7 49.19	19 19.45	155 13.40	5.23	1.1 0.8 26	2 70	.12	4	0.4	1.5 21	SF2				
		21	2257 8.57	19 23.73	155 0.62	8.47	2.4 2.1 40	5 143	.14	4	0.6	0.4 31	SF5				
		21	23 3 35.59	19 19.23	155 13.09	6.76	1.7 1.6 39	5 78	.12	4	0.4	0.9 28	SF2				
		22	114 42.31	19 18.78	155 13.45	6.91	1.4 1.5 23	2 76	.08	3	0.4	0.9 17	SF2				
		22	154 14.68	19 19.77	155 11.84	7.98	1.5 1.1 31	3 87	.09	5	0.4	0.6 21	SF3				
		22	257 56.55	19 15.47	155 22.76	3.96	1.5 1.6 23	2 137	.09	3	0.4	1.2 14	SWR				
		22	333 3.99	19 19.50	155 11.62	7.06	1.6 1.2 27	1 95	.10	6	0.5	1.1 21	SF3				
		22	343 6.93	19 15.10	155 22.76	6.00	1.6 1.1 21	2 168	.11	3	0.6	1.5 15	SWR				
		22	514 31.86	19 15.48	155 22.96	5.98	1.9 1.8 23	2 164	.11	3	0.7	1.7 18	SWR				
		22	517 22.90	19 15.82	155 23.01	5.30	2.3 2.5 38	3 131	.14	3	0.5	1.2 35	SWR				
		22	6 2 39.31	19 19.88	155 7.30	7.34	1.6 0.9 30	1 105	.09	5	0.5	0.8 22	SF4				
		22	646 37.02	19 26.10	155 23.24	4.61	1.7 1.3 18	2 58	.23	4	0.7	2.3 14	KAO				
		22	755 14.39	19 21.26	155 2.15	3.95	1.8 1.3 15	0 159	.07	3	0.6	1.2 12	SSF				
		22	1317 0.06	19 41.94	155 1.62	0.00	2.1 2.2 27	1 166	.20	0	1.3	0.7 15	HIL B				
		22	1441 45.29	19 22.87	155 2.16	7.60	2.1 1.6 30	3 136	.14	5	0.6	0.8 18	SF5				
		22	22 4 38.97	19 24.10	155 15.64	3.93	1.6 2.0 20	4 107	.10	2	0.4	0.5 12	SEC				
		22	2359 14.54	19 18.26	155 13.16	7.43	1.5 1.5 31	4 94	.09	2	0.5	0.8 24	SF2				
		23	141 39.68	19 19.13	155 13.14	6.98	1.3 1.2 28	1 80	.11	4	0.5	1.1 23	SF2				
		23	219 12.24	19 18.17	155 13.22	7.08	1.4 1.1 22	1 93	.08	2	0.6	1.1 12	SF2				
		23	527 0.97	19 19.69	155 13.17	6.35	1.3 1.1 22	0 71	.12	5	0.5	1.5 17	SF2				
		23	818 1.16	19 20.05	155 11.31	9.01	1.4 1.3 22	0 85	.08	5	0.6	1.0 18	SF3				
		23	818 35.18	19 19.76	155 11.35	4.61	1.4 1.1 22	0 91	.20	5	0.7	3.1 19	SSF				
		23	843 56.33	19 18.44	155 13.06	8.56	1.9 2.2 43	5 136	.13	8	0.5	0.7 35	SF2				
		23	958 10.06	19 16.43	155 22.26	8.46	2.1 2.7 41	4 133	.14	5	0.5	0.8 29	SWR				
		23	1445 18.86	19 19.34	155 12.04	5.97	1.5 1.5 28	2 94</									

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 9

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 10

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR SEC	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	REMK
1985	FEB	25	059	13.60	19 22.55	155 2 71	4.80	1.7	1.5	25	3	129	19	5	0.8	1.9 14	SSF
		25	757	20.43	19 35.55	155 24.41	13.72	2.0	1.6	34	4	82	13	8	0.3	0.5 18	KEA
		25	1226	5.43	19 21.71	155 1 58	3.71	1.8	1.3	31	3	158	17	4	0.6	1.8 21	SSF
		25	16 8	29.04	19 20.03	155 11.46	7.60	1.5	1.8	36	2	85	12	5	0.5	0.8 28	SF3
		25	1636	6.88	19 13.31	155 25.71	9.36	2.2	2.4	36	4	137	11	4	0.4	0.6 23	LSW
		25	1827	46.41	19 47.23	156 4 40	10.68	3.9	4.3	47	2	240	12	27	1.1	0.7 46	HUA F
		25	1851	24.51	19 24.88	155 30.67	11.83	2.2	2.1	36	3	38	11	4	0.4	0.5 28	KAO
		26	733	28.70	19 18.13	155 20.98	5.05	1.3	1.1	18	1	120	10	4	0.4	1.5 14	SWR
		26	11 8	27.06	19 24.40	155 26.60	9.14	1.9	1.7	41	5	34	12	3	0.3	0.7 34	KAO
		26	1442	1.59	19 24.88	155 19.35	6.28	1.8	1.7	24	5	96	11	2	0.4	0.9 18	KAO
		26	1852	3.08	19 23.50	155 20.36	9.91	1.9	2.2	36	5	54	09	1	0.4	0.6 27	KAO
		26	1927	46.91	19 23.86	155 17.48	3.45	2.1	2.4	12	1	53	11	1	0.4	0.6 4	SSC L
		26	1928	26.55	19 12.81	155 35.35	8.69	3.1	2.6	36	2	201	20	5	1.0	0.9 28	LSW
		26	2349	46.68	19 19.93	155 30.51	9.00	1.7	1.1	27	1	57	12	7	0.5	1.1 17	KAO
		27	10 6	15.95	20 3.10	155 24.11	10.23	2.6	2.8	39	0	211	13	19	1.1	0.8 35	KEA
		27	1339	28.16	20 10.54	155 40.57	27.01	3.2	3.0	42	8	243	10	12	0.8	1.5 26	KOH
		27	15 5	34.17	20 0.00	155 35.74	14.21	2.4	1.9	26	4	270	10	17	1.5	0.6 22	KOH
		27	1751	28.20	19 19.83	155 10.60	8.48	1.1	1.1	19	0	95	06	5	0.6	1.1 17	SF3
		27	1941	0.12	19 24.00	155 25.82	7.73	1.4	1.2	27	2	46	12	3	0.4	0.9 22	KAO
		27	2258	24.65	19 19.43	155 11.65	7.83	1.4	1.3	20	0	98	05	5	0.6	1.0 18	SF3
		28	2 7	39.99	19 51.10	155 11.17	33.58	3.3	2.9	43	3	210	12	17	0.9	2.0 39	KEA
		28	16 3	40.06	19 20.33	155 4 87	4.84	1.3	1.1	27	2	123	14	3	0.6	1.8 21	SSF
		28	2112	0.22	19 25.34	155 19.60	4.35	1.5	1.5	22	4	108	08	3	0.4	0.8 17	KAO
		28	2325	32.46	19 10.58	155 41.04	4.58	2.1	1.4	23	1	124	21	11	1.0	3.4 20	LSW
	MAR	1	414	20.66	19 9.56	157 0 27	30.49	2.9	2.7	34	2	327	12120	2.6	3.4	26	DIS
		1	5 1	3.82	19 25.41	155 19.70	3.84	1.2	1.2	17	3	127	09	3	0.4	0.8 13	KAO
		1	830	1.17	19 22.52	155 1 95	7.88	2.4	2.1	28	1	145	11	5	0.8	0.8 18	SF5
		1	1954	27.90	19 25.50	155 19.52	3.70	1.2	1.1	16	2	120	10	3	0.5	0.8 13	KAO
		1	2346	40.55	19 21.91	155 1 99	6.34	2.0	1.5	32	3	152	16	4	0.6	1.0 25	SF5
		2	249	27.94	19 23.82	155 16.97	2.56	0.8	0.9	12	2	71	06	1	0.3	0.4 8	SSC
		2	548	30.65	19 24.88	155 24.18	9.86	1.5	1.4	30	3	39	11	2	0.4	0.7 25	KAO
		2	719	45.37	19 31.19	155 3 79	46.85	2.8	2.5	32	1	85	09	2	0.9	2.1 28	DEP
		2	1032	23.69	19 19.99	155 11.47	7.46	1.6	1.1	28	0	85	13	5	0.6	1.1 26	SF3
		2	1315	3.98	19 19.00	155 13.95	8.65	1.4	1.1	22	1	91	08	4	0.5	0.9 21	SF2
		3	637	5.06	19 19.18	155 16.07	6.14	1.2	1.2	32	2	108	13	3	0.5	0.9 28	SF1
		4	045	57.27	19 19.56	155 11.80	8.90	3.2	3.5	48	7	91	12	6	0.3	0.4 40	SF3
		4	049	56.26	19 19.39	155 11.82	7.18	1.4	1.0	24	0	95	06	5	0.5	1.0 24	SF3
		4	2054	2.25	19 25.40	155 16.34	9.58	1.1	1.2	16	1	171	12	2	1.0	1.2 15	INT L
		4	21 9	3.42	19 22.11	155 28.94	9.94	3.0	3.4	52	10	37	11	2	0.3	0.4 39	KAO F
		4	2211	13.47	19 19.73	155 12.23	6.10	1.4	1.2	25	0	84	12	5	0.5	1.4 24	SF3
		4	2256	31.87	19 20.25	155 13.36	7.71	1.8	1.9	38	3	63	13	4	0.4	0.7 34	SF2
		4	2319	4.89	19 24.16	155 15.92	9.97	1.8	2.1	14	1	121	14	2	1.0	1.5 13	INT L
		5	142	28.71	19 20.70	155 11.91	7.87	2.0	2.5	43	3	71	13	4	0.4	0.6 36	SF3
		5	1332	8.31	19 21.08	155 29.58	4.87	1.9	2.1	24	2	51	13	4	0.4	1.5 21	KAO
		5	1813	39.92	19 20.58	155 11.70	7.55	2.5	2.8	45	4	74	15	4	0.4	0.6 39	SF3

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR SEC	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	REMK
1985	MAR	5	1842	14.97	19 19.53	155 11.08	6.11	1.6	1.8	36	4	97	08	5	0.4	0.8 31	SF3
		6	747	52.54	19 20.59	155 11.42	8.11	2.4	2.8	47	4	75	13	4	0.4	0.6 43	SF3
		6	839	58.62	19 19.83	155 12.70	5.56	1.7	1.8	33	4	77	13	5	0.4	1.1 28	SF2
		6	12 1	12.60	19 24.84	155 30.57	12.13	2.5	2.1	38	3	45	08	7	0.4	0.5 35	KAO
		6	1216	54.41	19 21.88	155 4 96	7.58	1.3	1.5	26	2	78	11	5	0.6	0.9 25	SF5
		6	1419	20.17	19 20.35	155 10.65	7.35	2.3	2.7	43	2	80	17	3	0.6	0.8 39	SF3
		6	1558	40.49	19 23.42	155 2 02	8.78	1.9	2.1	28	2	135	15	5	0.8	0.6 25	SF5
		6	20 4	39.00	19 21.77	155 6 88	7.48	1.5	1.1	25	2	77	11	3	0.4	0.7 23	SF4
		6	21 5	12.45	19 19.73	155 11.75	8.42	1.8	1.9	39	3	88	12	5	0.4	0.7 34	SF3
		6	2227	23.13	19 22.16	155 28.65	10.32	3.0	3.2	49	6	37	12	2	0.3	0.4 43	KAO
		6	2329	14.56	19 16.97	155 22.61	4.79	2.3	2.8	46	3	118	18	5	0.4	1.7 41	SWR
		6	2331	13.17	19 23.92	155 15.46	3.15	1.9	2.0	24	3	105	09	2	0.3	0.4 20	SEC
		7	242	27.95	19 17.80	155 13.04	6.12	1.4	1.1	21	1	113	07	2	0.6	1.0 21	SF2
		7	850	17.27	18 56.57	155 15.93	11.86	2.6	2.7	15	0	286	10	32	5.2	1.3 14	LOI L
		7	947	53.38	19 26.34	155 30.13	9.52	2.6	2.0	43	6	42	10	8	0.3	0.7 37	KAO
		7	1431	10.95	19 20.29	155 11.92	8.81	2.5	2.4	45	4	77	13	5	0.4	0.6 39	SF3
		7	1617	50.57	19 11.15	155 29.08	34.06	2.8	2.3	46	7	76	07	4	0.8	1.1 38	DLS
		8	1916	51.00	19 29.57	155 30.24	22.31	2.5	2.3	46	5	66	10	6	0.4	0.8 41	DHL
		9	122	20.04	19 21.42	155 22.57	11.35	1.7	1.4	27	6	59	08	3	0.4	0.7 22	SWR
		9	822	35.18	19 18.93	155 12.88	6.22	1.4	1.2	32	0	89	10	4	0.5	1.0 30	SF2
		9	1315	44.81	19 19.48	155 11.64	6.44	1.3	1.3	30	2	95	12	6	0.5	1.0 29	SF3
		9	2013	19.04	19 21.59	155 28.08	10.52	1.6	1.7	38	2	40	13	2	0.4	0.6 36	KAO
		10	059	32.64	19 25.84	155 16.09	8.30	1.3	1.7	19	1	128	13	2	0.7	1.1 17	INT L
		10	324	31.12	19 23.52	154 58.25	7.71	2.3	2.2	43	4	172	16	3	0.8	0.5 39	LER
		10	735	48.89	19 24.48	155 17.63	9.02	1.4	1.7	18	2	53	14	1	0.6	1.0 17	INT L
		10	1314	56.22	19 20.45	155 13.35	7.78	1.6	1.5	29	3	61	11	4	0.5	0.8 26	SF2
		10	19 5	9.20	19 20.87	155 12.02	8.27	2.0	2.2	40	3	68	10	4	0.4	0.6 38	SF3
		11	622	41.44	19 20.79	155 13.74	7.26	1.1	1.1	19	0	84	10	4	0.5	1.0 15	SF2
		11	821	45.05	19 20.95	155 2 32	7.57	3.4	3.7	34	2	160	09	2	0.6	0.4 19	SF5 F
		11	1252	44.83	19 22.63	154 59.19	6.20	2.0	1.5	33	2	176	21	5	1.2	1.3 28	LER
		11	13 0	27.42	19 24.21	155 16.11	0.50	0.9	1.5	10	3	123	09	2	0.2	0.5 8	SEC
		11	16 1	45.12	19 21.65	155 1 86	5.73	1.8	1.7	33	3	151	17	4	0.6	1.2 31	SF5
		12	536	53.73	19 22.87	155 26.93	9.43	1.5	1.1	32	3	36	13	1	0.4	0.8 28	KAO
		12	1230	26.22	19 17.90	155 13.04	8.48	1.6	1.5								

1985 HVO EARTHQUAKE SUMMARY LIST

1985 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ NO DIS	ERZ NO KM	ERZ NO FM	ERZ NO REMK		
1985	MAR	14	2048	58.87	19 18.70	155 26.30	9.69	1.6	1.5	33	4	56	14	6	0.4	0.7	30	LSW	
		15	046	37.78	19 19.48	155 12.38	6.38	1.5	1.1	26	1	86	13	5	0.6	1.2	24	SF2	
		15	432	44.31	19 12.94	155 37.28	7.92	2.0	1.6	28	0	92	16	4	0.7	1.0	28	LSW	
		15	455	28.31	19 18.10	155 14.35	9.22	2.7	2.6	55	9	91	11	3	0.4	0.4	45	SF2	
		15	1250	5.89	19 20.83	155 11.27	9.00	2.0	1.9	42	7	74	10	4	0.4	0.5	36	SF3	
		15	1749	15.88	19 21.91	155 30.02	9.62	2.2	2.1	43	5	33	10	4	0.3	0.6	32	KAO	
		16	140	59.14	19 24.91	155 17.29	8.44	1.2	1.3	13	0	118	11	1	0.9	1.3	13	INT L	
		16	141	59.83	19 23.81	155 16.99	8.45	1.5	0.9	17	0	82	09	1	0.6	0.9	17	INT L	
		16	338	52.70	19 25.17	155 30.42	9.46	1.7	1.2	31	2	43	09	7	0.4	1.0	27	KAO	
		16	632	33.12	19 20.04	155 12.21	7.22	1.6	1.2	28	1	79	12	5	0.5	0.9	25	SF3	
		16	755	2.32	19 24.87	156 16.66	32.00	3.4	3.4	37	2	295	11	39	2.1	1.7	33	KON	
		16	1659	39.79	19 11.14	155 36.59	8.29	2.3	1.6	39	7	94	13	7	0.4	1.0	36	LSW	
		16	1717	58.21	19 22.93	155 26.87	9.58	1.8	1.4	38	3	34	14	2	0.4	0.7	32	KAO	
		16	2126	14.06	18 58.36	155 12.43	46.52	3.4	3.5	59	11	238	11	34	0.9	1.1	51	LOI	
		17	045	33.21	19 26.89	155 19.61	6.91	1.7	1.5	29	3	66	11	5	0.5	0.9	24	KAO	
		17	1232	8.41	19 19.72	155 11.75	7.64	2.3	2.7	46	4	89	13	5	0.4	0.7	38	SF3	
		17	2133	44.53	19 20.10	155 13.24	4.69	1.2	1.0	22	0	68	11	5	0.5	1.9	19	SSF	
		18	850	14.21	19 19.13	155 9.75	6.59	1.5	1.2	27	3	104	09	5	0.5	0.9	25	SF3	
		18	1049	5.43	19 12.50	155 7.37	42.17	1.6	1.6	39	4	242	10	9	1.4	0.9	38	DEP	
		18	1541	23.22	19 20.78	155 6.41	6.01	1.6	1.5	32	3	100	15	5	0.5	1.1	25	SF4	
		18	1555	15.42	19 28.13	155 24.95	10.17	2.8	2.6	53	7	34	13	4	0.3	0.5	43	KAO	
		18	1943	56.41	19 18.35	155 15.46	7.18	1.2	1.1	23	1	120	09	4	0.5	1.0	17	SF1	
		18	1958	14.61	19 20.03	155 7.33	7.66	1.4	1.1	23	3	102	08	5	0.5	0.9	20	SF4	
		19	0	4	38.18	19 19.38	155 15.33	7.48	1.7	1.6	38	3	88	10	4	0.4	0.6	31	SF1
		19	218	6.90	19 20.08	155 8.29	7.66	1.8	1.8	35	2	82	11	5	0.5	0.7	52	SF4	
		19	1524	0.38	19 26.39	155 28.78	9.47	1.5	1.2	28	2	58	10	7	0.4	1.1	24	KAO	
		19	1612	15.99	19 19.42	155 14.91	7.63	1.9	1.8	38	3	90	12	5	0.4	0.6	33	SF1	
		19	1637	34.69	19 18.49	154 59.19	40.41	2.5	2.0	49	6	212	10	7	0.9	0.8	43	LER	
		19	17	1	23.05	19 23.35	155 16.47	8.40	1.4	1.8	13	1	68	11	1	0.9	1.2	12	INT L
		19	18	5	40.80	20 29.97	154 55.69	22.73	2.9	2.6	49	6	307	10	80	1.6	6.6	48	DIS
		19	2232	48.71	19 20.31	155 10.95	7.78	1.4	1.1	28	3	80	10	4	0.5	0.7	21	SF3	
		20	7	1	27.32	19 19.98	8.07	1.5	1.2	26	1	85	10	5	0.5	0.9	26	SF3	
		20	1550	8.54	19 21.33	155 11.29	7.56	2.1	2.0	39	3	171	11	4	0.6	0.5	34	SF5	
		20	1745	49.23	19 19.82	155 11.99	6.48	1.3	1.3	25	0	89	09	5	0.5	1.2	19	SF3	
		20	2345	7.12	19 17.78	155 13.32	6.04	1.4	1.1	23	0	98	06	1	0.6	1.0	21	SF2	
		21	125	41.60	19 19.82	155 8.83	5.83	1.7	1.8	30	0	77	10	5	0.5	1.0	22	SF4	
		21	1431	36.97	19 50.65	155 21.38	5.41	2.1	1.9	30	5	124	11	5	0.5	1.6	24	KEA	
		21	20	8	15.95	19 19.25	155 15.08	30.61	2.4	2.1	47	5	85	10	4	0.8	0.9	43	DEP
		22	535	51.95	19 53.60	156 36.64	1.73	3.3	3.5	45	10	183	12	84	1.4	0.7	26	DIS	
		22	7	7	54.85	19 53.99	156 36.64	1.58	4.1	4.3	55	7	298	12	84	5.2	2.3	39	DIS
		22	714	43.53	20 43.89	158 12.51	5.98	3.9	3.4	18	7	350	90273	54.6	82.6	13	DIS		
		22	1843	26.30	19 20.45	155 8.42	8.78	2.7	2.8	43	2	76	11	4	0.4	0.5	36	SF4	
		23	056	49.10	19 25.79	155 50.86	13.62	3.0	2.9	40	2	124	13	10	0.6	0.4	35	KON	
		23	2	9	36.24	19 52.85	155 23.72	26.80	2.5	1.7	38	8	193	09	6	0.6	0.9	30	KEA
		24	238	52.82	19 26.31	155 41.47	7.35	2.9	2.7	32	1	74	12	9	0.4	1.3	23	HLO	

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ NO DIS	ERZ NO KM	ERZ NO FM	ERZ NO REMK		
1985	MAR	24	1343	21.22	19 16.76	155 23.68	2.71	1.5	1.4	32	1	100	.22	5	0.5	1.6	23	SWR	
		24	16	9	36.02	19 27.85	155 54.00	9.45	2.7	1.7	24	3	153	.12	3	0.9	0.5	19	KON
		24	1626	43.03	19 21.13	155 2.39	8.35	2.2	2.3	39	3	153	.15	2	0.7	0.5	24	SF5	
		24	1837	33.36	19 20.61	155 11.83	5.49	1.4	1.1	29	0	73	.14	4	0.5	1.0	21	SF3	
		25	553	52.67	19 28.66	155 27.95	8.01	2.1	1.7	37	4	60	.13	6	0.4	0.9	23	KAO	
		25	1416	25.80	19 17.51	155 18.39	30.85	2.3	2.4	40	2	134	.13	1	0.8	1.4	20	DEP	
		26	014	41.44	19 21.25	155 24.26	9.62	2.0	2.1	38	1	65	.13	3	0.4	0.6	25	SWR	
		26	2	4	35.65	19 22.80	155 26.72	10.63	2.6	2.7	42	2	35	.12	2	0.4	0.5	28	KAO
		26	1157	14.08	19 21.85	155 4.31	7.76	1.7	1.3	29	3	88	.12	4	0.5	0.9	26	SF5	
		27	321	31.85	19 19.97	155 12.21	7.18	1.7	1.6	41	4	79	.12	5	0.4	0.6	38	SF3	
		27	816	47.40	18 50.69	155 14.73	49.50	2.3	2.3	46	5	259	.09	42	1.2	1.7	42	LOI	
		27	1326	30.67	19 10.37	155 37.63	8.14	2.1	1.4	27	4	102	.12	9	0.4	1.3	24	LSW	
		27	1641	39.32	19 19.99	155 8.35	6.66	1.4	1.6	34	4	81	.11	5	0.4	0.8	30	SF4	
		27	19	6	16.69	19 22.35	155 4.91	5.90	1.7	1.9	34	1	74	.17	4	0.6	1.2	28	SF5
		28	614	14.39	19 20.08	155 11.88	8.03	1.4	1.2	29	1	81	.12	5	0.6	0.9	27	SF3	
		28	713	47.78	19 22.80	155 20.77	8.98	1.8	1.2	37	6	48	.11	3	0.4	0.7	29	KAO	
		28	839	43.95	19 25.17	155 15.71	14.67	1.6	1.4	43	6	74	.11	2	0.5	0.3	36	DEP	
		28	936	28.16	19 50.88	155 39.59	13.34	2.2	1.7	35	8	112	.17	1	0.6	0.5	31	KEA	
		28	1241	30.29	19 11.07	155 29.21	33.74	2.2	1.7	53	12	80	.08	4	0.5	0.8	46	DLS	
		28	1815	43.65	19 25.61	155 27.42	5.31	1.9	1.5	38	3	54	.12	4	0.4	1.1	30	KAO	
		29	257	45.02	19 20.38	155 11.56	9.15	3.1	3.2	55	12	78	.11	4	0.3	0.4	43	SF3 F	
		29	927	51.05	19 26.12	155 29.18	8.23	1.6	1.1	31	3	61	.12	7	0.4	1.0	25	KAO	
		29	1121	41.32	19 17.27	155 14.73	6.51	1.3	1.4	32	3	152	.11	2	0.6	1.0	29	SF1	
		29	1540	44.53	19 24.75	155 16.63	10.40	1.1	1.3	12	1	144	.12	1	1.2	1.7	11	INT L	
		30	142	27.98	19 17.76	155 29.41	6.97	1.8	1.5	37	2	46	.20	5	0.5	1.2	35	LSW	
		30	425	1.16	19 25.24	155 26.77	5.12	1.3	1.2	35	4	69	.12	3	0.3	1.2	32	KAO	
		30	720	22.91	19 20.31	155 11.68	8.66	2.8	2.8	57	11	79	.13	5	0.3	0.4	46	SF3	
		30	9	3	9.01	19 16.68	155 30.87	43.23	3.4	3.5	62	14	48	.09	3	0.5	0.8	52	DLS F
		31	014	37.86	19 20.70	155 12.18	7.79	1.8	1.2	39	2	103	.12	4	0.5	0.6	38	SF3	
		31	210	22.41	19 17.17	155 30.68	8.04	2.1	1.4	42	5	46	.20	4	0.4	1.0	38	LSW	
		31	756	11.15	19 18.42	155 14.91	6.34	1.5	1.2	24	1	99	.12	4	0.5				

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 13

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 14

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	REMK	
1985	APR	3	2056	44.43	19 20.22	155 8.59	8.69	1.9	2.2	43	7	75	.12	4	0.4	0.7	38 SF4	
		3	2157	48.18	19 15.45	155 23.28	7.93	1.7	1.8	35	6	151	.12	2	0.5	0.8	32 SWR	
		4	333	5.03	19 20.00	155 12.06	7.57	1.4	1.3	30	1	81	.11	5	0.5	1.0	29 SF3	
		4	539	31.53	19 20.48	155 12.99	6.43	1.4	1.3	34	4	65	.14	4	0.5	0.9	29 SF2	
		4	735	14.66	19 17.60	155 20.66	7.86	1.8	1.9	41	9	127	.12	4	0.4	0.6	32 SWR	
		4	917	37.90	19 18.19	155 16.43	7.64	1.5	1.5	41	5	120	.12	4	0.4	0.6	36 SF1	
		4	1056	50.01	19 25.50	155 20.13	5.98	1.1	1.0	22	4	92	.12	3	0.4	0.9	20 KAO	
		4	1748	7.36	19 20.55	155 11.96	7.11	1.3	1.2	38	2	72	.16	4	0.5	0.7	34 SF3	
		4	23	5	0.54	19 26.23	155 20.05	3.82	1.3	1.1	23	4	129	.11	3	0.4	0.7	20 KAO
		5	211	10.94	19 23.55	155 29.94	8.68	1.5	1.1	28	2	44	.07	5	0.4	0.9	24 KAO	
		5	340	35.77	19 23.15	155 25.61	10.41	1.4	1.4	38	3	38	.12	4	0.4	0.6	33 KAO	
		5	424	7.29	19 19.79	155 12.51	7.63	1.4	1.2	33	2	80	.11	5	0.5	0.8	30 SF2	
		5	10	7	23.03	19 24.95	155 19.54	5.99	1.1	1.1	22	2	97	.10	2	0.5	1.0	20 KAO
		5	1158	10.43	19 23.18	155 30.38	8.45	1.9	1.8	43	4	33	.11	5	0.3	0.9	35 KAO	
		5	12	6	54.72	19 22.64	155 30.04	9.12	1.5	1.6	34	4	72	.11	4	0.4	0.8	29 KAO
		5	1215	22.94	19 20.76	155 12.77	7.20	1.5	1.4	29	3	64	.11	4	0.4	0.7	27 SF2	
		5	1311	5.38	19 13.98	155 37.45	7.47	2.3	1.9	45	7	90	.20	2	0.5	0.9	39 LSW	
		5	19	4	35.97	19 54.91	155 21.22	10.97	2.1	1.9	30	5	185	.12	3	0.8	0.6	26 KEA
		5	2123	4.13	19 11.74	155 31.11	39.53	2.4	2.3	53	10	88	.09	6	0.6	0.8	48 DLS	
		5	2348	18.93	19 22.54	155 2.27	8.03	1.9	1.7	38	3	130	.16	5	0.7	0.5	34 SF5	
		6	330	42.01	19 20.52	155 17.07	31.59	1.8	1.3	35	3	75	.10	1	0.9	1.4	32 DEF	
		6	448	0.61	19 19.33	155 13.15	6.71	1.2	1.0	26	1	77	.10	4	0.5	1.1	25 SF2	
		6	1324	22.84	19 22.56	155 29.89	9.08	1.8	1.6	38	3	44	.09	4	0.3	0.8	35 KAO	
		6	1714	24.24	20 1.15	155 28.00	1.89	2.4	2.5	28	5	200	.17	19	0.7	0.9	26 KEA	
		6	2025	33.13	19 19.40	155 11.95	8.67	1.4	1.2	26	2	94	.08	5	0.5	0.9	26 SF3	
		6	2147	29.40	19 24.37	155 18.23	10.89	0.8	0.7	14	2	131	.12	1	1.1	1.3	15 INT L	
		7	131	30.21	19 19.32	155 15.38	7.43	1.8	1.6	39	3	98	.11	4	0.4	0.6	34 SF1	
		7	251	1.55	19 20.70	154 59.42	0.01	1.4	1.3	24	3	208	.23	6	1.4	0.9	21 SLE	
		7	529	58.00	19 20.26	155 11.64	8.24	1.6	1.6	37	4	80	.11	5	0.4	0.6	33 SF3	
		7	945	11.10	19 19.83	155 11.55	8.38	2.4	2.7	45	4	87	.14	5	0.4	0.6	42 SF3	
		7	10	4	0.29	19 21.31	155 30.00	11.04	1.6	1.3	27	2	46	.13	5	0.5	1.0	26 KAO
		7	1939	42.37	19 17.58	155 13.14	6.28	1.6	1.5	37	3	117	.10	1	0.4	0.7	35 SF2	
		7	22	6	38.56	19 55.83	156 40.35	26.20	3.4	4.5	52	10	251	.14	91	1.3	3.3	42 DIS
		8	116	16.97	19 18.08	155 13.13	4.21	1.4	1.4	26	2	99	.09	2	0.5	0.9	26 SF2	
		8	120	54.58	19 21.88	155 28.63	5.38	1.6	1.6	27	2	42	.10	2	0.4	0.9	25 KAO	
		8	917	5.53	19 24.54	155 29.92	7.65	1.5	1.1	28	3	66	.11	6	0.4	1.0	25 KAO	
		8	1245	17.06	19 20.39	155 12.09	7.15	1.4	1.3	31	4	75	.10	5	0.4	0.8	29 SF3	
		8	2239	12.16	19 26.15	155 29.18	10.45	2.6	2.7	55	10	45	.10	7	0.3	0.4	46 KAO	
		9	258	3.49	19 28.67	155 51.44	5.82	2.3	1.3	28	4	97	.13	6	0.5	1.2	27 KON	
		9	411	44.23	19 22.31	155 3.27	5.40	1.6	1.5	27	5	115	.17	4	0.6	1.5	25 SF5	
		9	6	6	5.13	19 18.77	155 13.61	7.89	1.6	1.3	34	3	71	.10	3	0.5	0.7	32 SF2
		9	815	2.51	19 22.54	155 49.11	13.09	2.6	2.4	17	0	116	.09	13	0.6	0.5	10 KON	
		9	1411	17.19	19 58.23	156 49.90	23.09	2.9	2.7	46	10	322	.12	109	1.5	5.1	42 DIS	
		9	1644	33.77	19 23.91	155 15.74	3.36	1.1	1.4	18	7	109	.07	2	0.3	0.3	14 SEC	
		9	1654	34.00	19 22.98	155 30.42	9.47	3.1	3.5	51	6	33	.10	5	0.3	0.4	42 KAO	

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	REMK	
1985	APR	9	2134	53.57	19 19.21	155 15.34	6.10	1.2	1.2	34	3	100	.13	4	0.4	1.0	31 SF1	
		10	117	29.70	19 26.77	155 29.99	8.18	1.9	1.8	44	8	44	.11	6	0.3	0.8	38 KAO	
		10	946	45.98	19 24.20	155 17.21	8.11	1.2	1.7	21	3	49	.13	1	0.6	0.8	18 INT L	
		10	12	2	23.20	19 26.67	155 29.64	9.79	2.4	2.6	50	9	35	.11	8	0.3	0.5	43 KAO
		10	19	9	55.30	19 26.80	155 16.13	24.28	1.9	1.4	44	9	81	.10	4	0.6	0.7	40 DEF
		10	2253	22.66	19 17.36	155 15.23	6.07	1.3	1.3	27	0	161	.09	3	0.6	1.3	26 SF1	
		11	1920	42.39	19 23.74	155 15.81	3.16	1.4	1.6	24	6	79	.09	1	0.3	0.3	20 SEC	
		11	2252	51.49	19 20.66	155 10.87	8.27	1.7	1.6	38	5	75	.11	3	0.4	0.6	30 SF3	
		12	019	35.24	18 53.45	155 15.13	11.99	2.8	3.9	44	6	251	.11	37	0.9	0.7	41 LOI L	
		12	021	31.19	18 56.11	155 15.22	12.61	1.9	1.2	30	5	252	.11	33	1.3	0.7	30 LOI L	
		12	428	50.87	18 57.28	155 14.65	11.32	2.4	3.2	37	6	240	.11	32	1.0	0.5	34 LOI L	
		12	657	6.83	19 20.09	155 12.00	8.47	1.5	1.5	33	2	80	.11	5	0.5	0.8	30 SF3	
		12	1011	39.15	18 52.96	155 15.00	11.22	2.6	3.0	41	8	283	.10	38	1.0	0.6	37 LOI L	
		12	1931	25.13	19 26.25	155 30.11	7.45	1.8	1.2	37	4	42	.12	8	0.4	1.1	31 KAO	
		12	2210	55.64	19 25.74	155 19.24	3.80	1.4	1.1	22	3	138	.10	3	0.4	0.7	19 KAO	
		12	2256	53.43	20 4.15	155 27.79	27.38	2.1	1.7	39	7	209	.11	24	0.9	1.3	36 KAO	
		13	951	57.59	19 19.55	155 29.88	9.86	1.5	1.3	26	3	53	.11	7	0.5	1.1	25 KEA	
		13	1319	13.00	19 20.60	155 10.01	7.31	1.4	1.1	30	2	74	.10	3	0.5	0.9	28 SF3	
		13	20	1	6.00	19 23.69	155 26.95	9.99	1.6	1.3	42	4	28	.12	3	0.3	0.6	39 KAO
		13	23	1	29.52	19 26.66	155 29.27	9.01	1.7	1.4	30	6	43	.09	8	0.4	0.9	26 KAO
		14	857	7.06	18 54.21	155 11.74	9.40	2.4	2.9	32	5	264	.16	40	1.4	0.8	31 LOI L	
		14	952	8.73	19 8.76	155 36.46	4.37	2.3	2.1	34	6	115	.15	11	0.5	2.4	32 LSW	
		14	1255	29.77	19 21.51	155 28.39	5.84	1.7	1.5	28	2	45	.16	2	0.4	1.1	26 KAO	
		15	548	50.58	19 16.04	155 23.13	6.31	1.6	2.0	38	6	123	.15	4	0.4	0.9	35 SWR	
		15	616	43.51	19 20.68	155 11.81	7.84	1.8	1.9	42	7	72	.13	4	0.4	0.6	35 SF3	
		15	16	0	56.97	19 15.43	155 22.98	5.70	1.6	1.6	24	4	160	.10	3	0.5	1.1	22 SWR
		15	1855	55.21	19 18.72	155 13.29	8.36	2.0	2.4	47	3	81	.12	3	0.4	0.5	41 SF2	
		15	2035	6.05	19 18.90	155 26.48	9.51	1.3	1.2	26	2	71	.13	6	0.5	1.0	24 LSW	
		16	1	7	2.11	19 11.15	155 29.07	34.33	2.2	1.6	39	6	148	.10	8	0.7	1.0	36 DLS
		16	625	40.32	19 25.83	155 15.47	12.68	1.4	1.5	17	3	143	.12	3	0.9	0.8	15 INT L	
		16	1122	24.12	19 27.99	155 28.61	3.80	1.9	1.6	40	6	46	.15	6	0.4	1.7	28 KAO	
		16	14	1	6.40	19 20.55	155 11.43	8.45	1.7	1.6	44	4	75	.11	4	0.4	0.6	40 SF3
		16	1753	24.63	19 19.93	155 7.91	7.21	1.7	1.7	33	2	92	.11	5	0.5	0.9	31 SF4	
		16	2018	24.75	19 24.82	155 16.96	10.98	1.3	1.2	21								

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 15

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LOW W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1985	APR	18	024	20.12	19 17.87	155 13.18	6.74	1.6	1.1	26	0	103	.09	2	0.6	1.1	26	SF2
		18	1038	47.18	19 22.02	155 28.07	9.52	1.5	1.3	31	2	43	.11	1	0.4	0.7	28	KAO
		18	1247	37.76	19 20.49	155 11.47	8.21	2.4	2.6	47	7	76	.13	4	0.4	0.5	41	SF3
		18	1320	30.08	19 22.46	155 17.01	32.15	2.2	1.6	47	5	41	.13	2	0.7	1.0	43	DEP
		19	2 2	7.25	19 21.92	155 2.28	7.06	2.1	2.1	41	4	136	.17	4	0.5	0.8	36	SF5
		19	1418	55.82	19 20.42	155 20.39	11.70	1.6	1.6	38	8	65	.10	5	0.4	0.5	33	SWR
		19	1540	22.80	19 24.91	155 16.36	10.86	1.4	1.5	20	3	124	.14	1	0.8	0.6	17	INT L
		19	2155	51.00	19 21.02	155 21.66	10.26	1.7	2.1	34	4	63	.13	3	0.4	0.8	31	SWR
		20	1 3	0.45	19 20.04	155 13.46	6.53	1.4	1.2	29	1	69	.13	5	0.5	1.1	28	SF2
		20	514	15.62	19 19.36	155 8.75	6.92	1.7	2.0	36	0	83	.13	4	0.5	0.8	34	SF4
		20	553	29.92	19 20.90	155 49.42	9.56	2.5	2.0	43	10	119	.14	10	0.4	0.5	39	KON
		20	646	1.18	19 22.65	155 26.80	10.11	1.9	1.7	43	4	52	.12	1	0.4	0.6	40	KAO
		20	1110	54.05	19 19.40	155 13.25	5.05	1.2	1.1	25	1	73	.13	4	0.5	1.6	23	SF2
		20	12 3	10.55	19 20.63	155 12.77	8.62	1.4	1.3	26	2	66	.10	4	0.6	0.8	24	SF2
		20	1913	3.17	19 24.98	155 17.04	8.27	1.4	1.2	24	2	112	.13	0	0.5	0.8	21	INT L
		20	2020	41.49	19 20.09	155 11.87	7.42	1.5	1.2	33	2	81	.11	5	0.5	0.8	32	SF3
		20	2110	29.07	19 23.98	155 16.91	8.53	1.1	1.1	20	2	67	.10	1	0.6	0.8	18	INT L
		20	2127	59.46	19 24.29	155 16.90	11.70	1.3	1.2	19	3	78	.11	1	0.7	0.9	16	INT L
		20	23 2	21.81	19 19.25	155 13.54	6.23	2.4	2.6	51	6	89	.14	4	0.4	0.8	46	SF2
		21	928	51.10	19 20.50	155 12.78	7.14	1.5	1.2	30	3	67	.12	4	0.5	0.7	27	SF2
		21	933	41.38	19 23.97	155 15.73	3.40	1.4	1.7	22	4	110	.08	2	0.3	0.3	18	SEC
		21	1131	36.64	19 23.79	155 15.65	2.94	2.2	2.6	38	4	37	.10	2	0.3	0.3	34	SEC F
		21	1217	44.46	19 23.38	155 32.62	7.41	1.8	1.5	30	7	45	.10	3	0.3	0.8	25	HLO
		21	1237	41.99	19 38.87	156 1.08	14.67	3.3	3.3	43	6	225	.12	19	1.0	0.5	40	KON
		21	2350	46.14	19 23.75	155 16.04	2.89	1.3	1.4	21	3	98	.10	1	0.3	0.3	18	SEC
		22	5 4	48.39	19 24.68	155 17.25	1.89	1.3	1.2	17	4	70	.09	1	0.4	0.2	15	SNC
		22	541	52.73	19 24.59	155 17.35	1.90	1.0	0.6	14	1	61	.10	1	0.4	0.2	12	SNC
		22	621	38.07	19 24.64	155 17.15	1.90	0.9	0.2	13	2	66	.08	1	0.4	0.2	11	SNC
		22	823	2.52	19 23.85	155 16.20	2.64	1.6	1.2	9	0	100	.08	2	0.5	0.6	8	SEC
		22	831	21.22	19 24.60	155 17.49	1.88	1.2	1.2	16	2	63	.10	1	0.3	0.2	12	SNC
		22	915	8.42	19 25.25	155 16.41	6.51	1.1	0.4	9	1	222	.11	1	1.9	1.7	8	INT
		22	924	20.65	19 24.54	155 17.14	2.22	1.5	1.6	19	4	67	.11	1	0.4	0.2	16	SNC
		22	2140	48.02	19 20.53	155 10.76	8.79	1.9	2.1	40	2	77	.11	3	0.4	0.7	37	SF3
		23	21 3	59.79	19 22.89	154 58.68	7.56	1.8	1.3	35	3	177	.17	4	0.8	0.6	32	LER
		24	2 7	52.91	19 20.92	155 16.67	35.37	2.9	3.0	55	9	72	.11	2	0.5	0.8	45	DEP
		24	713	18.89	19 18.54	155 13.85	8.28	1.4	1.3	28	1	95	.09	3	0.6	0.9	27	SF2
		24	1046	51.86	19 27.38	155 25.74	6.14	1.6	1.1	27	2	50	.13	4	0.4	1.2	25	KAO
		24	1229	45.91	19 17.26	155 15.74	6.49	0.8	1.2	19	0	155	.09	4	0.6	1.2	19	SF1
		24	2253	51.13	19 28.08	154 52.36	3.81	1.8	1.1	21	3	109	.12	2	0.9	1.3	19	SLE
		24	2332	23.45	19 22.65	155 26.90	10.06	1.6	1.3	37	3	36	.13	1	0.4	0.7	35	KAO
		25	0 1	34.45	19 19.59	155 13.38	8.65	2.0	2.3	49	4	69	.12	5	0.5	0.5	45	SF2
		25	928	37.74	19 20.85	155 8.45	7.25	2.7	3.0	48	5	73	.13	5	0.5	0.6	44	SF4
		25	2018	52.76	19 24.68	155 17.60	2.20	1.1	1.4	16	4	68	.10	1	0.3	0.2	13	SNC L
		25	2154	19.46	19 24.24	155 17.35	1.79	0.7	1.0	11	3	102	.11	1	0.3	0.3	8	SSC L
		25	2321	4.36	19 24.56	155 17.05	9.22	1.3	1.5	17	1	64	.11	1	0.6	0.9	16	INT L

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 16

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LOW W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1985	APR	25	2327	5.30	19 25.01	155 16.67	9.41	1.0	1.1	18	2	124	.14	1	0.7	0.9	15	INT L
		26	040	21.53	19 19.00	155 14.94	8.39	2.2	2.0	46	3	89	.11	4	0.4	0.5	43	SF1
		26	4 7	26.05	19 24.11	155 17.05	1.94	1.4	2.0	18	4	74	.09	1	0.3	0.2	14	SSC L
		26	1010	24.09	19 22.64	155 26.76	10.40	1.7	1.2	33	2	70	.12	2	0.5	0.8	30	KAO
		26	1318	13.28	19 28.71	155 27.06	6.68	1.5	1.1	26	6	76	.13	6	0.4	1.3	19	KAO
		26	1347	33.75	19 25.80	155 29.68	8.79	1.9	1.2	37	4	39	.11	7	0.4	0.9	31	KAO
		26	1539	56.10	19 16.87	155 18.96	32.29	2.4	2.1	48	3	140	.10	2	0.6	1.0	45	DEP
		26	2220	43.46	19 9.47	155 15.95	63.79	2.1		29	6	260	.11	15	2.2	1.1	27	LOI T
		27	754	48.37	19 13.82	155 4.65	47.86	3.7	3.6	56	9	216	.12	9	1.0	0.7	50	DEP F
		27	837	32.94	19 22.14	155 28.49	10.54	1.7	1.4	34	1	37	.11	2	0.4	0.6	33	KAO
		27	1636	31.85	19 19.74	155 7.80	5.18	1.4	1.1	28	4	97	.13	4	0.5	1.4	26	SF4
		27	2143	52.80	19 25.26	155 15.58	14.87	1.3	1.0	42	8	114	.10	2	0.5	0.3	35	DEP
		29	113	56.80	19 18.82	155 14.80	7.08	1.2	1.1	28	0	99	.11	4	0.5	1.0	28	SF1
		29	426	28.12	19 19.79	155 11.63	7.50	1.5	1.5	39	3	88	.10	5	0.5	0.8	36	SF3
		29	2058	33.08	19 20.50	155 13.23	6.82	1.3	1.1	29	1	62	.14	4	0.6	1.0	28	SF2
		29	22 9	3.89	19 24.27	155 17.22	2.08	0.8	1.2	14	3	74	.09	1	0.3	0.2	12	SSC L
		30	5 7	25.84	19 20.25	155 11.51	7.94	2.5	2.8	49	7	80	.14	4	0.4	0.5	42	SF3
		30	2249	14.23	19 23.66	155 17.90	10.01	1.4	1.5	22	3	64	.11	2	0.6	0.7	17	INT L
	MAY	1	012	47.80	19 24.59	155 17.00	10.24	1.5	1.7	36	6	85	.11	1	0.4	0.5	30	INT L
		1	530	50.76	19 21.82	155 25.77	8.01	2.6	2.5	47	8	123	.10	4	0.4	0.4	40	SF5
		1	548	9.91	19 22.08	155 2.27	8.11	2.0	1.7	37	3	135	.11	4	0.5	0.6	34	SF5
		1	615	21.15	19 24.86	155 17.14	10.33	1.4	1.3	29	6	103	.14	0	0.5	0.6	22	INT L
		1	658	58.72	19 17.53	155 14.08	7.90	2.3	2.5	46	6	110	.11	1	0.5	0.6	41	SF2
		1	950	52.79	19 24.94	155 16.58	10.32	1.6	1.8	31	4	118	.12	1	0.5	0.6	25	INT L
		1	1518	50.83	19 22.10	155 25.95	9.97	2.4	2.3	49	7	40	.13	3	0.3	0.4	43	KAO
		2	051	57.05	19 11.09	155 29.18	34.43	2.2	1.3	43	7	79	.08	4	0.6	0.8	40	DLS
		2	21 2	20.07	19 20.87	155 2.84	6.29	1.5	1.5	30	3	127	.13	2	0.5	0.8	28	SF5
		2	2129	43.42	19 18.13	155 23.93	34.60	2.2	2.1	60	13	86	.11	4	0.6	0.7	53	DEP
		2	2238	49.70	19 24.74	155 16.72	6.88	1.5	1.6	35	6	89	.11	1	0.4	0.5	30	INT L
		3	416	54.32	19 24.51	155 17.77	5.59	0.9	1.3	21	2	56	.13	2	0.6	0.8	19	INT L
		3	740	43.82	19 24.77	155 17.24	9.11	1.5	1.5	24	4	67	.11	1	0.5	0.7	20	INT L
		3	1033	37.30	19													

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 17

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH DIS	ERZ KM	NO FM	REMK
1985	MAY	5	932	5.11	19 19.16	155 13.54	8.05	1.8	1.6	43	5	69	11	4	0.4	0.6 39 SF2
		5	11 6	28.48	19 25.11	155 16.94	8.37	1.2	1.7	22	3	117	11	0	0.5	0.6 19 INT L
		5	1519	46.56	19 19.33	155 6.26	4.29	1.4	1.3	27	2	141	12	5	0.6	2.3 24 SSF
		5	2136	21.36	19 22.12	155 0.37	7.54	1.7	1.2	40	3	170	11	6	0.6	0.5 36 SFS
		5	2259	15.13	19 16.13	155 22.25	7.99	1.4	1.6	29	3	158	09	5	0.4	0.8 26 SWR
		6	1 5	22.56	19 17.29	155 26.01	9.24	1.4	1.4	34	3	56	13	7	0.4	0.9 30 LSW
		7	215	1.54	19 18.46	155 27.65	8.07	1.4	1.2	38	4	44	14	8	0.4	0.8 36 LSW
		7	710	27.20	19 20.59	155 11.69	8.80	1.8	1.5	35	2	77	11	4	0.5	0.7 30 SFS
		7	1057	59.45	19 12.78	155 31.02	8.71	2.1	1.9	45	7	75	13	5	0.4	0.6 42 LSW
		7	11 0	24.45	19 12.65	155 30.92	9.17	2.3	2.0	49	9	75	12	5	0.3	0.5 42 LSW
		7	1215	49.95	19 13.37	155 30.97	8.72	2.0	1.3	44	9	69	12	4	0.4	0.6 41 LSW
		7	1456	54.85	19 39.97	155 59.18	11.82	2.8	2.1	43	7	253	12	21	1.0	0.7 35 HUA
		7	1541	24.62	19 22.81	155 26.88	9.58	2.2	2.1	50	9	35	12	1	0.3	0.5 43 KAO
		8	217	14.69	19 14.70	156 3.30	46.03	2.5	2.0	43	8	259	10	19	1.0	0.8 36 KON
		8	436	2.34	19 20.00	155 11.64	7.84	1.4	1.1	27	3	84	12	5	0.5	0.9 26 SFS
		9	1527	29.88	19 11.27	155 29.15	33.96	2.8	2.9	58	13	75	08	4	0.5	0.7 48 DLS F
		9	1855	56.22	19 20.48	155 12.51	8.69	1.3	1.2	30	2	70	10	4	0.5	0.8 27 SF2
		10	411	14.81	19 10.22	155 33.22	1.34	1.8	1.5	30	5	113	17	9	0.6	0.9 28 LSW
		10	17 3	0.88	19 19.55	155 11.73	7.07	1.5	1.5	27	2	93	10	6	0.5	1.0 26 SFS
		10	2249	5.22	19 25.08	155 19.55	5.46	1.7	1.6	29	6	102	12	3	0.4	0.9 24 KAO
		11	034	49.61	19 22.51	155 24.44	12.65	1.7	1.2	37	4	41	11	5	0.4	0.5 35 KAO
		11	110	50.58	19 36.79	156 22.89	30.90	2.7	2.6	45	5	274	13	51	1.4	2.5 40 DIS
		11	315	21.73	19 21.56	155 1.75	5.63	2.1	2.0	41	5	155	15	4	0.5	0.9 37 SFS
		11	1329	10.34	19 28.10	155 27.35	3.14	1.8	1.3	35	5	73	14	7	0.4	1.5 30 KAO
		11	17 4	59.15	19 19.80	155 11.50	9.00	1.8	1.7	33	0	88	10	5	0.5	0.8 32 SFS
		11	2353	40.81	19 21.42	155 2.28	5.49	1.6	1.5	31	2	143	18	3	0.7	1.4 28 SFS
		12	820	4.57	19 18.74	155 15.17	9.11	2.3	2.5	47	3	132	12	5	0.4	0.5 42 SF1
		12	1037	4.55	19 15.89	155 24.27	45.41	2.6	2.3	56	10	87	11	3	0.6	0.9 50 DEP
		12	1527	5.38	19 18.99	155 15.08	7.24	1.9	1.8	45	5	91	12	5	0.4	0.6 43 SF1
		12	1638	6.52	19 24.70	155 19.36	6.62	1.5	1.3	28	3	69	12	2	0.4	0.9 25 KAO
		13	252	46.82	19 27.09	155 29.16	9.79	1.7	1.3	34	7	54	09	8	0.3	0.7 29 KAO
		13	1431	57.85	19 19.31	155 11.71	7.36	1.9	1.8	36	2	99	10	5	0.5	0.8 35 SFS
		14	238	12.16	19 21.85	155 2.15	5.37	1.6	1.1	34	4	141	13	4	0.5	1.2 33 SFS
		14	554	18.09	19 12.87	155 30.23	6.94	1.9	1.3	35	4	69	14	4	0.5	0.8 35 LSW
		14	7 9	53.27	19 28.44	155 27.40	3.78	1.7	1.2	39	8	52	13	7	0.3	1.7 34 KAO
		14	1434	38.54	19 19.10	155 11.77	6.93	1.6	1.3	29	1	103	13	5	0.6	1.1 27 SFS
		14	1533	14.54	19 23.87	155 25.67	7.77	1.7	1.3	33	4	45	13	3	0.4	0.8 30 KAO
		14	1828	25.17	19 19.57	155 11.74	7.25	1.4	1.5	32	4	92	11	6	0.4	0.8 30 SFS
		14	19 8	10.86	19 22.12	155 3.02	7.71	1.7	1.7	35	5	113	14	4	0.5	0.7 31 SFS
		14	1948	21.80	19 28.85	155 26.46	5.44	2.0	1.4	45	8	47	11	6	0.3	1.1 39 KAO
		14	2052	19.19	19 19.14	155 8.58	6.99	1.4	1.3	31	4	85	10	4	0.4	0.8 25 SF4
		15	035	53.78	19 24.60	155 19.59	6.08	1.5	1.3	28	3	85	10	2	0.4	0.8 25 KAO
		15	116	17.88	19 19.68	155 12.26	6.69	2.0	2.3	51	7	85	13	5	0.4	0.7 44 SFS
		15	135	19.47	19 19.21	155 13.53	7.67	1.3	1.3	37	3	69	12	4	0.4	0.7 34 SF2
		15	155	48.98	19 24.60	155 16.79	9.78	1.4	1.8	23	3	104	15	1	0.7	0.8 21 INT L

19

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 18

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH DIS	ERZ KM	NO FM	REMK
1985	MAY	15	233	22.92	19 19.28	155 13.71	5.85	1.3	1.1	54	2	81	13	4	0.5	1.1 31 SF2
		15	320	50.12	19 21.48	155 17.92	30.58	2.2	2.2	58	11	31	11	3	0.5	0.6 49 DEP
		15	349	7.98	19 12.37	155 38.45	7.32	2.5	2.5	44	5	100	17	5	0.5	1.0 28 LSW
		16	14 6	6.30	19 41.90	155 2.47	0.01	1.9	2.5	36	1	129	21	1	0.7	1.2 36 HIL B
		16	1618	34.98	19 14.15	156 16.16	32.66	2.5	2.5	49	6	274	12	42	1.5	1.6 46 KON
		16	1946	23.77	19 22.84	155 1.89	8.21	1.4	1.4	32	3	143	15	5	0.6	0.8 31 SFS
		17	129	16.03	19 23.54	155 20.33	9.37	1.6	1.4	38	5	54	10	1	0.4	0.6 34 KAO
		17	230	3.14	19 23.66	155 15.61	2.59	1.4	1.4	22	3	96	13	2	0.3	0.3 19 SEC
		17	641	53.12	19 56.65	154 52.55	0.61	2.1	2.3	19	6	272	12	31	2.2	0.8 19 KEA
		17	741	23.32	19 22.66	155 29.99	9.04	1.6	1.2	35	2	45	11	4	0.4	0.8 34 KAO
		17	1323	56.83	19 24.66	154 50.97	44.53	2.6	2.7	52	8	242	08	5	1.0	0.8 48 LER
		17	1952	22.57	19 17.73	155 14.11	6.68	0.8	1.1	17	1	136	09	2	1.0	1.4 17 SF2
		17	2014	25.26	19 26.25	155 22.34	9.44	1.8	1.5	42	7	46	11	4	0.3	0.7 34 KAO
		17	2112	39.98	19 17.87	155 14.30	5.21	0.8	1.1	19	1	115	07	2	0.5	1.0 15 SF2
		17	233	39.50	19 23.15	155 20.46	9.68	1.5	1.3	33	6	52	09	2	0.3	0.7 29 KAO
		18	240	26.76	19 20.15	155 12.22	7.01	1.4	1.3	37	3	77	11	5	0.4	0.7 34 SF1
		18	2150	9.37	19 18.50	155 14.80	7.32	1.2	1.1	27	2	106	10	4	0.5	1.0 27 SFS
		19	621	54.02	19 20.92	155 21.61	10.36	1.5	1.1	29	3	64	09	3	0.4	0.8 27 SWR
		19	1236	39.00	19 19.98	155 8.48	7.51	2.3	2.7	48	7	79	12	5	0.4	0.6 44 SF4
		19	1532	26.05	19 20.03	155 12.19	7.13	1.3	1.1	28	1	79	10	5	0.5	0.9 26 SFS
		20	047	16.33	19 19.54	155 11.64	7.88	1.4	1.2	32	2	93	08	6	0.5	0.9 31 SFS
		20	434	45.30	19 22.57	155 27.46	9.21	1.3	1.1	40	4	41	13	0	0.4	0.7 36 KAO
		20	616	38.10	19 25.00	155 19.37	5.19	1.1	0.6	22	5	101	08	3	0.4	0.9 19 KAO
		20	618	39.49	19 25.05	155 19.24	5.03	1.4	1.1	25	8	105	07	3	0.4	0.7 20 KAO
		20	624	46.93	19 25.28	155 19.19	6.23	2.6	2.8	53	11	38	12	3	0.3	0.6 43 KAO
		20	728	15.90	19 25.15	155 19.32	4.71	0.9	0.9	21	4	108	09	3	0.4	0.8 18 KAO
		20	752	45.65	19 25.19	155 19.54	4.74	1.8	1.7	30	5	68	10	3	0.3	0.8 26 KAO
		20	810	36.14	19 25.14	155 19.30	4.36	1.8	2.0	31	7	71	10	3	0.3	0.6 26 KAO
		20	1324	26.18	19 20.53	155 6.05	7.06	2.5	2.9	48	6	109	11	6	0.4	0.5 42 SF4
		20	15 3	10.03	19 26.22	155 18.47	3.41	0.8	1.6	18	2	162	11	4	0.6	0.7 17 SNC L
		20	1551	8.25	19 20.96	155 29.61	6.09	2.1	2.4	32	2	63	12	5	0.4	1.0 30 KAO
		20	1558	9.26	19 25.01	155 19.35	6.45	1.6	1.5	27	5	101	11	3	0.4	0.8 22 KAO
		20	1812	35.09	19 18.05	155 21.51	5.03	1.3	1.3	27	2	116	15	5	0.5	1.6 25 SWR
		21	033	36.74	19 23.94	155 17.54	1.27	1.3	1.8	23	5	46	10	2	0.2	0.3 20 SSC
		21	417	22.59	19 24.43	154 55.87	4.48	1.9	1.4	23	5	194	12	5	0.8	1.4 21 SLE
		21	1159	32.97	19 26.85	155 44.00	12.84	2.0	1.5	35	9	71	15	8	0.5	0.4 30 KON</

1985 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	HR	MIN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DIS	ERH KM	ERZ NO KM FM	REMK
1985	MAY	24	411	57	13	19	22.63	155 29.99	7.75 1.6	1.3 45	6	36	14	4	0.4	0.8 41 KAO
		24	1245	45	42	19	21.20	155 8.18	8.75 1.8	1.7 33	3	92	12	4	0.5	0.9 30 SF4
		24	1416	41	56	19	14.95	155 35.35	7.90 2.5	2.5 47	7	74	18	3	0.5	0.7 44 LSW
		24	15	2	53	19	23.00	155 2.80	7.82 2.2	2.2 39	5	122	14	4	0.5	0.4 36 SF5
		24	1638	46	00	19	23.72	155 16.86	10.43 1.3	0.9 26	3	44	14	1	0.5	0.8 23 INT L
		25	139	2	17	19	23.05	155 26.62	9.92 1.4	1.2 33	2	39	12	2	0.4	0.7 31 KAO
		25	1454	51	94	19	24.87	155 26.94	5.83 1.3	1.1 22	3	73	10	5	0.4	1.4 19 KAO
		26	539	8	94	19	20.35	155 10.78	8.99 1.4	1.1 29	1	80	10	4	0.5	0.9 27 SF3
		26	1336	22	67	19	19.24	155 13.66	7.30 1.7	1.3 39	3	80	12	4	0.4	0.6 37 SF2
		26	1611	26	49	19	19.68	155 12.39	5.76 1.4	1.2 31	3	82	13	5	0.4	1.1 29 SF2
		26	1941	49	23	19	59.78	155 27.62	8.92 2.8	2.5 54	12	191	13	17	0.5	0.6 44 KEA
		26	2036	40	45	19	16.52	155 22.07	8.10 2.9	3.4 58	13	132	16	5	0.4	0.5 50 SWR F
		26	2039	19	51	19	16.58	155 21.82	5.87 1.4	1.1 26	3	133	11	6	0.4	1.3 25 SWR
		26	2116	12	04	19	16.70	155 21.90	6.98 1.8	1.4 37	4	132	13	6	0.4	1.0 35 SWR
		27	637	26	02	19	26.45	155 29.03	8.20 1.9	1.5 35	4	59	14	7	0.4	1.1 30 KAO
		27	732	11	71	19	22.30	155 0.57	6.51 2.0	1.4 37	4	174	18	6	0.6	0.9 33 SF5
		28	143	34	44	19	11.07	155 28.93	34.28 2.0	1.5 44	10	80	07	3	0.6	0.8 41 DLS
		28	538	28	74	19	27.44	154 53.71	7.24 1.8	1.4 25	3	139	14	3	0.7	0.9 24 LER
		28	1232	12	18	19	21.81	155 6.25	7.75 1.5	1.3 29	3	79	09	3	0.5	0.8 27 SF4
		28	1355	9	71	19	20.73	155 13.57	7.91 1.9	1.8 39	4	60	12	4	0.4	0.6 35 SF2
		28	1435	45	81	19	20.05	155 9.49	6.38 1.4	1.3 26	3	81	15	4	0.5	1.1 24 SF3
		28	1755	22	53	19	21.82	155 0.98	2.98 1.6	1.1 31	5	167	14	5	0.5	1.3 27 SSF
		28	20	6	32	05	19	25.17	5.28 1.5	1.5 24	6	111	13	3	0.6	1.4 20 KAO
		28	2055	13	77	19	40.87	155 43.46	8.75 2.2	1.8 37	11	104	20	12	0.5	1.0 34 HUA
		28	2327	26	79	19	18.97	155 13.25	6.73 1.6	1.9 45	3	79	13	4	0.4	0.8 43 SF2
		29	255	59	63	19	23.67	155 16.50	2.86 1.1	0.8 18	5	83	11	0	0.4	0.2 15 SSC
		29	329	11	66	19	24.71	155 19.99	6.58 2.0	1.9 41	8	46	12	2	0.3	0.6 36 KAO
		29	1526	22	13	19	23.62	155 16.93	3.10 1.1	1.0 19	5	50	07	0	0.3	0.2 16 SSC
		29	2256	7	91	19	23.53	155 21.00	8.80 1.7	1.7 40	4	55	13	2	0.4	0.6 37 KAO
		30	059	36	50	19	16.50	155 26.26	9.35 1.9	2.2 44	5	58	14	6	0.4	0.6 41 LSW
		30	245	24	50	19	25.09	155 15.72	15.91 2.6	3.0 63	15	46	11	2	0.4	0.3 52 DEP
		30	6	4	17	20	19	24.26	9.17 1.4	2.1 22	5	78	09	1	0.5	0.6 21 INT L
		30	9	7	59	74	19	20.57	7.36 1.5	1.5 34	2	74	14	4	0.6	0.8 33 SF3
		30	935	35	28	19	22.09	155 17.31	32.12 2.6	2.8 56	10	39	12	3	0.5	0.7 50 DEP
		30	1057	14	86	19	27.42	155 23.69	11.62 2.6	2.4 49	8	45	11	4	0.3	0.5 43 KAO
		30	1549	37	90	19	22.63	155 8.48	3.40 1.3	1.3 13	2	104	07	3	0.7	0.5 12 SER
		30	18	6	51	86	19	22.09	3.35 0.8	1.0 9	1	143	04	1	0.6	0.5 8 SER
		30	2045	45	35	19	22.48	155 2.82	6.29 1.6	1.3 33	4	131	15	5	0.5	0.9 31 SF5
		31	853	30	86	19	23.09	155 27.46	10.02 2.0	1.9 44	6	33	12	1	0.3	0.6 41 KAO
		31	856	52	28	19	49.26	155 49.26	35.70 2.4	1.9 53	10	171	09	15	0.6	0.9 47 HUA
		31	1917	47	44	19	27.51	155 23.63	11.21 2.3	1.9 49	9	39	10	4	0.3	0.5 43 KAO
		31	2038	4	04	19	22.51	155 29.77	6.88 2.1	1.8 46	5	33	12	4	0.4	0.8 43 KAO
		31	2143	17	56	19	22.87	155 25.58	10.78 1.5	1.3 35	4	39	11	4	0.4	1.0 35 SWR
JUN		1	1325	25	00	19	16.55	155 22.02	6.08 1.5	1.4 38	6	133	13	5	0.4	1.0 35 SWR
		1	1553	27	60	19	25.73	155 21.51	10.01 2.6	2.5 55	7	32	11	4	0.3	0.4 47 KAO

62

1985 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	HR	MIN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DIS	ERH KM	ERZ NO KM FM	REMK	
1985	JUN	1	18	1	9	13	19	28.98	155 26.26	2.07 1.3	1.0 14	2	93	17	5	0.4	1.7 13 KAO
		1	20	5	25	19	25.26	155 29.32	9.06 1.5	1.1 30	4	62	09	6	0.4	0.9 26 KAO	
		1	2215	26	10	19	20.27	155 12.89	5.73 1.5	1.6 28	2	68	13	4	0.4	1.0 27 SF2	
		2	1147	55	66	19	18.59	155 15.55	6.91 1.3	1.5 32	0	115	09	4	0.5	0.8 32 SF1	
		2	1448	46	29	19	21.62	155 2.69	6.92 1.8	1.5 35	7	135	14	3	0.5	0.8 29 SF5	
		2	1517	26	32	19	20.45	155 7.61	5.43 1.3	1.3 31	2	91	14	5	0.5	1.3 29 SF4	
		2	1846	21	46	19	18.46	155 13.31	5.18 1.3	1.3 30	3	84	12	3	0.4	1.2 30 SF2	
		2	1859	36	83	19	19.21	155 28.64	9.53 1.8	1.5 40	5	43	12	6	0.3	0.9 44 LSW	
		2	2317	29	64	19	15.28	155 38.98	7.10 2.7	2.6 47	7	99	21	5	0.7	0.9 44 LSW	
		3	241	29	76	19	21.58	155 1.93	7.94 2.8	3.4 48	7	150	12	4	0.5	0.4 44 SF5	
		3	243	8	07	19	21.57	155 1.77	6.75 1.7	1.7 36	3	155	13	4	0.5	0.8 33 SF5	
		3	414	41	16	19	21.59	155 2.14	6.94 2.7	2.9 48	6	145	12	3	0.4	0.5 44 SF5	
		3	720	54	33	19	23.15	155 30.38	8.79 1.1	1.1 26	3	115	08	5	0.5	0.9 25 KAO	
		3	1017	15	45	19	45.87	156 2.88	9.01 2.4	2.4 41	8	233	12	33	0.8	0.6 36 HUA	
		4	238	39	49	19	21.91	155 7.09	7.28 1.5	1.7 31	3	75	12	3	0.5	0.8 29 SF4	
		4	311	44	73	19	15.28	155 31.76	7.76 2.1	1.8 46	6	60	19	3	0.4	0.8 42 LSW	
		4	544	38	94	19	21.88	155 30.21	4.53 1.8	1.5 36	1	45	14	5	0.4	1.9 32 KAO	
		4	743	29	55	19	21.10	155 29.56	4.76 2.3	2.5 46	8	43	11	4	0.3	1.3 41 SF3	
		4	2041	6	26	19	20.59	155 12.15	7.15 1.3	1.3 35	4	71	11	4	0.4	0.6 31 SF3	
		5	251	32	74	19	24.71	155 19.18	5.71 1.4	1.3 24	3	67	09	2	0.4	0.9 20 KAO	
		5	253	1	67	19	23.03	155 27.00	9.69 1.4	1.1 31	3	39	12	1	0.4	0.6 29 KAO	
		5	310	10	22	19	50.00	155 11.99	46.03 2.5	2.2 67	19	190	12	16	0.6	0.9 59 KEA	
		5	418	46	34	19	24.65	155 30.37	10.83 1.8	1.2 36	4	41	10	6	0.4	0.8 33 KAO	
		5	2355	4	61	19	18.91	155 13.40	6.94 1.4	1.3 29	3	76	11	3	0.5	0.9 27 SF2	
		5	2359	2	36	19	25.47	155 28.87	9.96 1.7	1.2 33	2	60	11	6	0.4	0.8 31 KAO	
		6	1455	59	15	19	19.26	155 8.99	7.82 1.6	1.9 30	2	91	09	4	0.4	0.8 19 SF4	
		6	1629	15	01	19	19.45	155 16.35	8.04 2.0	2.1 43	3	97	12	2	0.4	0.5 30 SF1	
		6	2113	45	93	19	24.15	155 51.12	11.63 2.6	2.1 32	2	136	15	12	0.7	0.4 22 KON	
		6	2250	59	09	19	57.80	155 32.55	42.96 2.4	1.8 28	3	244	11	17	1.0	1.5 24 KEA	
		7	028	54	25	19	11.67	155 39.95	4.83 1.9	1.4 25	2	112	22	8	0.8	3.9 22 LSW	
		7	449	44	45	19	19.48	155 11.67	6.65 1.3	1.2 26	1	94	11	6	0.5	1.2 21 SF3	
		7	627	25	02	19	19.16	155 15.06	4.50 1.2	1.3 28	2	88	13	4	0.4	1.6 20 SSF	
		7	918	26	06	19	50.19	155 44.71	13.88 2.4	2.2 25	2	222	11	9	1.5	0.7 19 HUA	
		7	2336	11	08	19	33.97	155 56.93	26.43 3.6	3.8 59	10	209	12	9	0.7	1.2 48 KON F	
		7	2339	3	63	19	19.79	155 24.87	11.78 2.0	1.7 40	3	64	11	3	0.4	0.5 32 SWR	
		8	330	48	64	19	22.38	155 29.90	9.86 1.8	1.5 36	3	41	11	4	0.4	0.7 27 KAO	
		8	1510	44	91	20											

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 21

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 22

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	REMK	
1985	JUN	9	14	2	44.57	19 25.42	155	2.66	7.82	1.6	1.5	38	3	116	.14	4	0.5	0.6 36 SFS
		9	2029	22.85	19 19.99	155	26.80	51.10	2.5	2.5	60	12	51	.11	5	0.6	0.9 53 DHL	
		10	020	36.96	19 18.82	155	26.25	9.45	1.5	1.4	28	4	71	.11	6	0.4	0.7 26 LSW	
		10	050	32.73	19 17.91	155	47.72	10.77	3.1	3.1	46	5	88	.12	9	0.5	0.3 38 KON	
		10	123	47.93	19 10.98	155	29.25	33.84	2.5	2.2	53	13	82	.08	4	0.5	0.8 46 DLS	
		10	357	57.17	19 19.27	155	9.43	4.40	1.4	1.1	25	3	97	.12	4	0.4	1.5 24 SF2	
		10	544	52.60	19 26.74	155	29.93	10.06	2.9	2.8	47	2	32	.12	9	0.3	0.6 36 KAO F	
		10	734	54.59	19 19.58	155	12.12	5.54	1.3	1.2	29	3	88	.11	5	0.5	1.4 27 SF3	
		10	748	10.23	19 20.00	155	11.91	9.24	2.7	3.0	49	7	82	.12	5	0.4	0.4 36 SF3	
		10	837	28.23	19 19.43	155	11.73	5.41	1.6	1.6	31	4	95	.10	5	0.4	1.2 29 SF3	
		10	1157	28.10	19 25.66	155	17.16	6.51	0.9	1.6	20	4	164	.12	1	0.6	0.6 18 INT L	
		10	1436	48.19	19 20.19	155	11.75	7.49	1.7	2.2	30	2	80	.12	5	0.6	1.0 29 SF3	
		10	1549	28.62	19 20.00	155	8.35	5.71	1.8	1.9	40	6	82	.11	5	0.4	0.8 36 SF4	
		10	1553	43.50	19 21.84	155	5.10	7.22	1.4	1.5	33	3	79	.12	5	0.4	0.7 31 SFS	
		10	1938	35.95	19 25.99	155	18.19	5.21	1.0	1.8	23	6	119	.12	2	0.5	0.6 21 INT L	
		10	2048	1.02	19 23.82	155	19.50	5.41	0.6	0.9	17	5	74	.19	4	0.8	1.9 15 KAO L	
		10	2322	40.77	19 24.80	155	18.13	7.62	1.1	1.7	25	4	81	.11	1	0.5	0.6 23 INT L	
		11	026	32.29	19 24.48	155	17.52	18.77	2.6	2.9	55	7	34	.13	1	0.3	0.5 47 DEP	
		11	519	15.17	19 17.39	155	12.98	8.06	1.8	2.1	46	6	142	.12	1	0.5	0.6 41 SF2	
		11	839	47.55	19 19.96	155	11.84	7.13	1.4	1.4	33	4	83	.10	5	0.4	0.7 30 SF3	
		11	13	1 37.44	19 26.13	155	28.95	8.37	2.0	1.7	44	6	45	.10	7	0.3	0.8 39 KAO	
		11	1338	58.26	19 18.75	155	13.41	8.12	2.0	2.2	49	6	77	.13	3	0.4	0.6 45 SF2	
		11	1349	0.10	19 18.60	155	13.33	5.72	1.3	1.1	31	2	82	.11	3	0.4	1.1 31 SF2	
		11	1357	29.41	19 18.53	155	13.15	7.22	1.6	1.6	40	4	88	.11	3	0.4	0.7 38 SF2	
		11	1428	45.94	19 18.36	155	13.27	6.82	1.5	1.5	41	4	87	.11	2	0.4	0.8 37 SF2	
		11	1510	12.50	19 18.27	155	13.12	8.01	1.4	1.3	30	4	95	.09	2	0.4	0.7 30 SF2	
		11	1511	22.90	19 20.18	155	5.74	6.37	2.1	2.2	36	5	127	.11	2	0.5	0.6 30 SFS	
		11	1739	47.05	19 18.68	155	13.36	7.47	1.3	1.3	34	2	80	.11	3	0.4	0.7 33 SF2	
		11	1912	43.75	19 19.27	155	13.24	6.49	1.3	1.2	30	4	75	.11	4	0.4	0.8 27 SF2	
		11	2136	17.28	19 24.14	155	16.54	9.41	1.2	1.4	24	4	66	.12	0	0.6	0.6 20 INT L	
		12	149	45.56	19 21.59	155	2.43	6.44	1.9	1.8	40	5	136	.12	3	0.4	0.7 36 SF5	
		12	532	38.33	19 19.91	155	10.58	7.39	1.4	1.5	37	2	89	.12	4	0.5	0.7 36 SF3	
		12	7 8	54.50	19 24.18	155	17.25	16.04	2.4	2.3	60	14	25	.12	1	0.4	0.3 51 DEP	
		12	15	0 29.67	19 29.00	155	27.18	5.14	1.8	1.2	25	5	69	.10	6	0.4	2.0 21 KAO	
		13	527	39.55	19 21.51	155	28.42	10.21	2.1	2.2	44	4	39	.10	2	0.3	0.6 38 KAO	
		13	1113	49.34	19 18.77	155	13.02	9.41	2.8	3.0	55	9	88	.12	3	0.4	0.5 49 SF2	
		13	1115	35.19	19 17.60	155	12.91	6.47	1.4	1.2	26	3	130	.09	1	0.4	0.8 25 SF2	
		13	1129	46.41	19 17.52	155	13.02	7.79	2.0	1.8	43	6	130	.12	1	0.5	0.6 37 SF2	
		13	1157	7.35	19 18.48	155	12.87	9.89	2.8	2.9	54	8	99	.12	3	0.5	0.5 46 SF2	
		13	1228	45.78	19 18.16	155	12.80	9.66	1.6	1.5	31	4	111	.09	2	0.6	0.7 29 SF2	
		13	1228	53.37	19 18.31	155	12.84	10.31	2.6	2.7	52	8	104	.12	3	0.4	0.5 47 SF2	
		13	1347	42.14	19 17.82	155	18.32	7.81	1.8	1.8	38	3	127	.12	4	0.5	0.8 35 SF1	
		13	1638	49.85	19 17.72	155	12.91	7.67	2.0	2.1	42	5	124	.11	2	0.5	0.6 38 SF2	
		13	1658	36.51	19 17.76	155	12.86	7.14	1.4	1.5	33	4	123	.09	2	0.5	0.8 31 SF2	
		14	0 8	23.63	19 19.62	155	29.00	9.88	1.6	1.3	25	5	45	.11	6	0.4	0.9 24 KAO	

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	REMK
1985	JUN	14	019	16.64	19 19.93	155	29.17	9.44	1.6	1.3	32	5	46	.12	6	0.4	0.8 29 KAO
		14	046	59.12	19 11.63	155	32.67	7.46	1.8	1.4	31	3	95	.15	8	0.6	1.2 26 LSW
		14	1646	58.03	19 33.61	155	10.10	24.28	2.8	2.4	55	11	68	.11	13	0.5	0.9 47 DEP
		15	351	56.11	19 26.12	155	29.07	9.54	2.2	1.8	47	3	40	.11	7	0.3	0.7 44 KAO
		15	623	42.62	19 20.41	155	12.59	5.85	1.4	1.3	35	1	70	.13	4	0.5	0.9 33 SF2
		15	1138	12.18	19 24.64	155	30.34	10.91	2.0	1.5	38	4	45	.10	6	0.4	0.8 33 KAO
		15	1557	35.08	19 20.44	155	11.89	7.83	1.4	1.2	26	1	75	.09	5	0.5	0.8 26 SF3
		16	011	23.21	19 18.69	155	13.34	8.42	2.3	3.0	53	6	80	.12	3	0.4	0.5 48 SF2
		16	012	17.96	19 18.44	155	13.32	6.47	1.9	2.2	46	4	84	.12	3	0.4	0.7 44 SF2
		16	1 1	44.44	19 18.47	155	13.33	6.55	1.3	1.1	35	2	83	.11	3	0.4	0.9 35 SF2
		16	114	55.04	19 18.43	155	13.16	7.99	1.7	1.8	44	4	90	.09	3	0.4	0.6 41 SF2
		16	943	5.10	19 22.98	155	27.35	10.05	1.9	1.8	44	3	35	.12	1	0.4	0.8 41 KAO
		17	049	37.71	19 31.14	156	4.42	38.29	2.5	2.0	49	6	240	.11	17	1.0	0.8 46 KON
		17	231	12.49	19 15.97	155	5.01	45.68	3.6	3.8	63	13	195	.11	6	0.8	0.6 53 DEP
		17	5 8	17.20	19 20.10	155	11.09	7.03	1.7	1.6	41	4	85	.13	4	0.4	0.7 39 SF3
		17	7 4	27.13	19 24.46	155	17.51	16.76	2.4	2.6	57	11	35	.11	1	0.3	0.4 47 DEP
		17	737	42.58	19 22.24	155	28.71	10.09	3.1	3.3	59	12	36	.11	2	0.3	0.4 51 KAO F
		17	1743	3.48	19 19.73	155	10.35	8.01	1.5	1.2	29	1	92	.12	4	0.6	0.9 29 SF3
		17	2139	8.35	19 24.61	155	30.27	11.40	1.9	1.6	40	5	35	.11	5	0.4	0.6 37 KAO
		17	22 1	41.99	19 25.97	155	18.09	7.25	1.2	1.8	22	4	126	.10	1	0.7	0.7 19 INT L
		18	042	46.57	19 22.42	155	21.31	9.72	2.0	2.1	52	8	48	.13	4	0.3	0.5 46 KAO
		18	3 8	25.62	19 20.48	155	11.64	7.27	2.1	2.6	46	4	76	.14	4	0.4	0.7 42 SF3
		18	437	37.07	19 25.94	155	29.36	8.37	1.5	1.2	30	2	62	.10	7	0.4	1.1 27 KAO
		18	519	44.64	19 36.12	156	25.16	30.12	2.2	1.9	40	8	299	.14	54	1.2	2.8 37 DIS
		18	2315	33.75	19 19.30	155	12.84	6.96	1.6	1.7	43	4	83	.11	4	0.4	0.7 39 SF2
		19	258	45.54	19 20.84	155	48.65	9.10	1.9	1.4	35	4	109	.13	11	0.5	0.7 33 KON
		19	357	4.72	19 20.47	155	12.17	8.63	2.4	2.8	52	6	73	.13	4	0.4	0.5 47 SF3
		19	413	37.75	19 19.83	155	12.13	7.04	1.7	1.8	43	5	83	.12	5	0.4	0.6 40 SF3
		19	532	37.31	19 20.13	155	47.94	11.33	2.2	1.5	43	9	99	.12	11	0.4	0.4 39 KON
		19	1721	50.04	19 18.85	155	11.54	6.58	1.4	1.3	33	4	112	.11	5	0.4	0.9 30 SF3
		19	1820	29.11	19 21.50	155	28.82	8.29	1.6	1.1	29	2	44	.12	3	0.4	0.7 28 KAO
		20	212	39.54	19 21.06	155	29.07	6.60	1.8	1.6	24	2	46	.11	4	0.4	1.0 22 KAO
		20	243	45.77	19 27.83	155	25.42	8.21	1.9	1.1	39	4	43	.11	5	0.3	0.7 34 KAO
		20	431	41.70	19 24.84	155	17.06	10.41	1.2	1.8	15	2	86	.13			

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 23

YEAR	MON	ORIGIN DA	TIME HRMN	SEC	LAT N DEG	LON W DEG	DEPTH KM	AMP	DUR	GAP	RMS	MIN	ERH	ERZ NO	REMK	
		DA	HRMN	SEC	MIN	MIN	KM	MAG	MAG	NR	NS	DEG	SEC	DIS	KM	
1985	JUN	21	1934	18 59	19 23.44	155 2.78	6.75	1.6	1.2	32	2	117	.13	3	0.6	0.8 31 SFS
		21	1954	52.72	19 24.36	155 17.53	7.62	1.2	1.0	18	3	55	.14	1	0.7	1.1 13 INT L
		21	2234	25.28	19 25.03	155 19.14	5.95	1.4	1.0	25	3	78	.11	3	0.4	0.9 22 KAO
		22	620	35.78	19 19.95	155 8.33	6.78	1.4	1.2	26	0	82	.11	5	0.5	1.1 26 SF4
		22	1114	11.92	19 19.38	155 11.47	7.02	1.6	1.2	32	2	98	.10	6	0.5	1.0 25 SFS
		22	1412	3.79	19 21.27	155 2.67	6.10	1.9	1.1	29	4	131	.11	3	0.4	0.7 18 SFS
		23	452	2.17	19 16.84	155 30.28	9.59	1.7	1.2	34	3	50	.12	3	0.4	0.8 24 LSW
		23	635	4.54	19 24.44	155 16.17	4.02	1.5	1.9	16	0	108	.14	1	0.6	0.6 3 SEC L
		23	757	40.91	19 25.10	155 30.18	7.49	1.6	1.3	36	3	37	.12	7	0.4	1.1 27 KAO
		23	13 5	15.72	19 53.89	155 22.12	10.36	2.0	1.7	29	5	168	.12	3	0.7	0.3 28 KEA
		23	1755	6.14	19 19.15	155 15.31	6.57	1.2	1.3	28	1	100	.10	4	0.5	1.0 27 SF1
		23	19 1	49.99	19 20.13	155 8.50	6.92	1.4	1.3	35	3	77	.12	4	0.5	0.8 33 SF4
		24	132	44.05	19 20.08	155 9.64	6.85	1.5	1.3	30	2	81	.08	4	0.4	0.8 29 SF3
		24	437	43.43	19 19.58	155 11.70	6.79	1.4	1.3	27	1	92	.07	6	0.4	0.9 26 SF3
		24	555	29.51	19 19.79	155 7.85	6.26	1.9	2.5	41	4	95	.13	5	0.5	0.9 38 SF4
		24	556	9.33	19 53.20	155 33.92	18.02	2.5	2.5	53	12	128	.13	10	0.5	0.8 48 KEA
		24	1840	59.76	19 15.37	155 27.04	7.54	1.6	1.5	34	5	79	.13	5	0.4	0.8 32 LSW
		24	2047	44.03	19 22.07	155 2.45	8.13	1.8	1.7	38	4	130	.16	4	0.7	0.5 35 SFS
		24	22 2	5.61	19 13.74	155 15.15	38.59	1.5	1.5	34	2	213	.12	7	1.2	1.1 33 DEP L
		25	645	38.57	19 9.76	155 27.62	38.08	1.3		29	4	162	.08	1	1.4	1.3 29 DLS T
		25	17 7	21.64	19 18.72	155 12.86	8.39	1.6	1.8	43	7	93	.11	3	0.5	0.5 32 SF2
		25	1833	21.54	19 18.57	155 12.93	6.23	1.3	1.6	35	3	95	.09	3	0.4	0.7 22 SF2
		25	2124	42.94	19 21.46	155 18.04	30.54	2.0	2.1	50	6	54	.11	4	0.5	0.8 45 DEP
		25	2350	20.89	19 31.74	155 28.55	6.26	2.2	2.3	42	5	47	.11	2	0.3	0.7 32 HLO
		26	413	51.59	19 21.89	155 26.58	10.90	2.0	1.8	39	3	55	.11	2	0.4	0.6 29 KAO
		26	425	17.48	19 19.15	155 11.74	6.17	1.3	1.4	30	3	102	.09	5	0.5	1.1 21 SF3
		26	1441	56.15	19 21.50	155 2.68	7.19	2.1	2.2	43	3	128	.12	3	0.5	0.5 36 SFS
		26	17 4	35.27	19 2.17	136 13.11	37.41	2.6	2.2	43	7	285	.10	45	1.1	1.7 38 KON
		26	2111	31.85	19 19.37	155 11.56	4.09	1.3	1.2	31	2	98	.15	5	0.5	1.9 27 SSF
		26	2132	11.57	19 26.49	155 16.57	6.26	1.1	1.8	18	1	174	.12	3	0.8	1.3 7 INT L
		26	2350	9.11	19 24.74	155 16.96	9.79	1.6	1.8	14	1	104	.11	0	1.1	0.9 4 INT L
		27	427	35.48	19 24.70	155 17.10	8.74	1.8	2.4	18	1	58	.13	0	0.7	0.9 6 INT
		27	448	47.24	19 25.44	155 17.34	10.51	1.3	1.7	16	2	149	.08	0	0.7	0.8 7 INT L
		27	1621	20.64	19 24.03	155 17.16	8.74	1.2	1.3	19	2	54	.12	1	0.6	0.8 10 INT L
		27	2053	45.94	19 24.73	155 17.55	5.82	1.7	2.2	23	0	42	.14	1	0.5	0.8 9 INT L
		27	2138	47.36	19 23.99	155 15.85	3.32	1.1	1.6	24	4	110	.08	1	0.3	0.3 16 SEC
		28	526	26.92	19 18.70	155 50.32	11.59	3.1	2.9	40	3	123	.12	6	0.7	0.3 34 KON
		28	17 9	46.60	19 11.74	155 35.76	6.98	2.9	3.0	52	10	92	.21	6	0.5	1.0 47 LSW
		28	23 9	28.93	19 22.74	155 0.46	8.26	2.2	2.4	37	2	159	.13	5	0.6	0.5 35 SFS
		28	2333	47.85	19 19.78	155 8.26	7.80	1.5	1.4	36	6	85	.10	5	0.4	0.7 33 SF4
		29	214	53.45	19 21.61	155 0.34	6.89	2.7	3.0	43	6	180	.13	6	0.5	0.4 37 SFS
		29	533	23.07	19 20.40	155 6.41	7.54	2.1	2.3	43	4	108	.12	8	0.4	0.8 37 SF4
		30	040	35.21	19 20.37	155 11.30	8.76	2.0	2.2	42	5	79	.09	4	0.3	0.5 39 SF3
		30	214	16.28	19 26.14	155 29.57	10.20	2.2	1.7	46	7	41	.10	6	0.3	0.6 41 KAO
		30	219	3.58	19 18.69	155 15.24	5.88	1.6	1.3	34	0	109	.13	4	0.5	1.1 33 SF1

64

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 24

YEAR	MON	ORIGIN DA	TIME HRMN	SEC	LAT N DEG	LON W DEG	DEPTH KM	AMP	DUR	GAP	RMS	MIN	ERH	ERZ NO	REMK		
		DA	HRMN	SEC	MIN	MIN	KM	MAG	MAG	NR	NS	DEG	SEC	DIS	KM		
1985	JUN	30	5 3	25.90	19 26.56	155 29.45	8.12	1.9	1.7	36	4	44	.10	8	0.4	1.0 31 KAO	
		30	5 9	50.88	19 22.32	154 59.52	8.10	2.2	2.4	39	4	177	.13	5	0.7	0.5 36 LER	
		30	7 1	26.58	19 25.15	155 17.11	9.73	1.2	1.7	21	4	117	.09	1	0.5	0.5 19 INT L	
		30	723	59.96	19 23.07	155 17.12	7.36	0.8	1.1	17	3	71	.14	1	0.6	1.1 16 INT L	
		30	1020	27.49	19 20.25	155 8.09	7.95	1.5	1.7	36	5	84	.11	5	0.4	0.7 29 SF4	
		30	1112	24.05	19 22.42	155 17.87	26.87	4.2	4.6	51	2	27	.12	2	0.5	0.8 47 DEP F	
		JUL	1	252	10.28	19 19.94	155 8.55	8.25	2.7	3.0	49	8	77	.09	5	0.3	0.4 43 SF4
			1	726	27.03	19 20.11	155 6.59	7.12	1.4	1.3	34	5	113	.10	6	0.4	0.8 31 SF4
			1	1010	47.79	19 21.50	155 1.99	4.76	1.5	1.4	28	3	159	.16	3	0.7	1.6 27 SSF
			1	1147	19.22	19 20.47	155 11.05	7.10	1.2	1.2	25	3	78	.11	4	0.5	0.9 24 SFS
			1	1450	10.01	19 15.98	155 13.50	5.59	1.7	1.3	31	3	186	.09	2	0.6	0.8 30 SF2
			1	1859	34.96	19 20.30	155 24.15	12.96	1.6	1.5	32	3	71	.10	2	0.5	0.6 29 SWR
			1	1951	19.98	19 19.80	155 12.06	7.26	1.4	1.3	30	3	84	.10	6	0.4	0.7 29 SF3
			1	2037	25.00	19 20.98	155 50.14	8.37	2.3	1.6	41	8	129	.14	10	0.4	0.7 35 KON
			1	2231	23.04	19 20.64	155 30.14	7.39	2.3	2.5	42	8	50	.10	6	0.3	0.6 38 KAO
			2	1018	37.71	19 24.00	155 27.13	10.08	1.8	1.5	40	5	35	.12	3	0.4	0.6 37 KAO
			3	118	38.39	19 23.90	155 17.27	7.33	1.0	1.6	21	5	57	.11	1	0.5	0.4 20 INT L
			3	151	25.15	19 16.79	155 7.38	42.05	2.9	2.9	55	10	195	.12	1	0.6	0.7 47 DEP
			3	314	27.04	19 22.71	155 20.64	9.95	1.8	1.3	46	6	43	.10	2	0.3	0.5 41 KAO
			3	459	1.78	19 29.17	155 27.69	3.16	2.6	2.3	43	6	58	.13	5	0.3	1.2 37 KAO
			3	515	10.42	19 56.01	155 29.69	21.03	2.5	2.6	54	11	160	.09	17	0.5	1.0 48 KEA
			3	1550	22.09	19 25.47	155 19.86	4.62	1.3	1.3	22	2	91	.09	3	0.4	1.0 20 KAO
			3	1553	37.23	19 12.45	155 30.57	7.22	1.9	1.3	42	4	76	.14	5	0.4	0.8 33 LSW
			4	535	27.21	19 25.14	155 30.51	11.12	2.3	1.6	41	4	69	.10	7	0.3	0.4 37 KAO
			4	621	29.78	19 18.60	155 27.42	7.98	1.9	1.6	42	2	75	.15	7	0.5	0.8 39 LSW
			4	645	52.26	19 20.50	155 11.99	8.45	2.1	2.3	45	5	73	.13	4	0.5	0.6 40 SF3
			4	1128	37.17	19 11.41	155 32.97	7.41	1.9	2.1	36	4	97	.16	8	0.5	1.1 32 LSW
			4	13 6	20.82	19 19.61	155 10.96	7.05	1.6	1.4	36	2	85	.13	5	0.5	0.8 34 SF3
			4	17 3	44.59	19 16.73	155 22.35	7.59	2.2	2.6	47	5	127	.14	5	0.4	0.6 44 SWR
			5	441	11.42	19 22.64	155 0.95	7.60	1.9	2.0	43	4	153	.14	6	0.6	0.6 38 SFS
			5	1910	25.74	19 25.53	155 20.07	6.49	1.1	1.3	25	3	93	.09	3	0.4	1.0 22 KAO
			5	1911	42.21	19 25.68	155 20.06	6.26	1.1	1.3	25	2	96	.12	4	0.5	1.0 23 KAO
			5	1933	15.69	19 23.50	155 27.01	10.01	2.2	1.9	49	5	29	.14	2	0.3	0.6 45 INT L
			5	2339	3.66	19 22.92	155 18.45	5.84	1.5	1.9	30	6	58	.13	3	0.4	0.6 24 KAO
			6	149	53.												

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 25

YEAR	MON	DA	HR	MIN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	NO REMK	
1985	JUL	6	1533	1.28	19	20.79	155 11.93	8.34	2.4	2.4	52	7	70	12	4	0.3	0.4	45	SF3
6	1551	7.13	19	23.00	155 52.59	7.89	2.8	2.4	43	8	163	20	12	0.6	0.8	38	KON		
6	1559	47.78	19	20.12	155 11.76	7.36	1.5	1.1	34	2	81	10	5	0.4	0.7	31	SF3		
6	1954	17.62	19	20.60	155 11.55	8.72	2.0	1.9	41	3	74	12	4	0.4	0.6	38	SF3		
6	2154	9.12	19	24.94	155 16.77	8.12	1.3	1.8	21	3	117	12	0	0.6	0.7	20	INT L		
6	22	2	12.48	19	27.19	155 29.10	10.06	1.4	1.0	33	4	49	11	8	0.4	0.9	28	KAO	
7	158	35.69	19	20.52	155 5.86	34.96	1.8	1.3	37	4	111	12	5	1.0	1.3	35	DEP		
7	2	0	37.46	19	10.14	155 35.92	10.81	4.3	4.5	57	11	105	18	9	0.5	0.5	48	LSW F	
7	2	6	12.62	19	8.61	155 35.17	5.72	2.3	1.9	31	4	123	11	12	0.5	2.2	28	LSW	
7	2	6	40.93	19	8.95	155 35.32	7.44	3.2	3.0	49	9	119	14	12	0.5	0.8	44	LSW	
7	210	24.55	19	9.07	155 35.07	6.42	2.0	1.2	30	4	130	13	11	0.5	1.5	28	LSW		
7	220	18.92	19	9.20	155 35.24	8.62	2.1	1.4	31	4	117	13	11	0.4	1.1	31	LSW		
7	225	5.97	19	8.65	155 35.20	10.77	3.6	3.6	48	7	123	15	12	0.5	0.5	43	LSW		
7	236	15.59	19	8.85	155 35.25	6.43	2.4	2.1	36	4	120	15	12	0.6	1.9	35	LSW		
7	244	25.94	19	9.42	155 36.60	7.65	1.9	1.2	27	4	108	15	10	0.5	1.6	25	LSW		
7	246	56.10	19	8.85	155 35.36	5.55	1.9	1.4	27	4	120	12	12	0.5	3.1	24	LSW		
7	3	2	14.18	19	9.17	155 35.16	6.19	1.8	1.2	30	5	117	14	11	0.5	1.8	29	LSW	
7	3	5	9.39	19	8.86	155 34.67	8.45	2.2	2.0	35	4	123	15	12	0.5	1.4	32	LSW	
7	3	6	34.03	19	8.89	155 35.00	7.65	3.0	2.8	46	10	121	14	12	0.4	1.1	41	LSW	
7	310	57.21	19	24.86	155 17.26	7.95	1.2	1.9	22	2	101	11	0	0.6	0.7	21	INT L		
7	4	3	44.93	19	23.94	155 16.07	2.89	2.0	2.3	34	4	35	11	1	0.3	0.2	32	SEC	
7	433	3.99	19	20.21	155 12.52	8.81	2.2	2.4	48	6	73	13	5	0.3	0.5	44	SF2		
7	6	9	15.25	19	8.32	155 35.87	10.74	3.1	3.1	51	9	123	15	12	0.4	0.5	44	LSW	
7	628	32.06	19	8.10	155 35.36	11.12	3.2	3.0	47	6	128	13	13	0.3	0.3	43	LSW		
7	853	59.08	19	23.86	155 15.54	3.41	1.1	1.2	16	5	105	04	2	0.3	0.4	13	SEC		
7	1220	53.82	19	8.53	155 35.92	8.30	2.1	1.9	35	4	120	14	12	0.5	1.2	33	LSW		
8	012	24.82	19	28.69	155 45.50	9.80	2.2	1.8	36	5	67	12	4	0.4	0.6	32	KON		
8	235	11.23	19	20.12	155 8.58	7.97	2.6	3.0	49	5	75	12	4	0.4	0.6	44	SF4		
8	1158	16.34	19	9.22	155 35.19	8.11	2.5	2.7	36	4	117	13	11	0.5	1.5	32	LSW		
9	220	13.12	19	19.20	155 10.82	6.05	1.3	1.3	26	1	106	09	6	0.5	1.2	26	SF3		
9	227	21.71	19	17.20	155 28.11	8.76	2.1	2.1	48	7	52	15	5	0.3	0.7	44	LSW		
9	1334	29.93	19	21.56	155 2.07	5.06	1.9	1.5	35	3	147	18	3	0.7	1.6	32	SF5		
9	2132	4.82	19	22.63	155 1.83	5.48	1.7	1.3	32	2	138	15	5	0.5	1.5	30	SF5		
10	311	31.55	19	14.56	155 35.10	7.76	2.2	1.9	42	5	79	20	4	0.5	0.9	40	LSW		
10	814	33.24	19	21.67	155 19.20	26.15	1.6	1.4	1	79	09	4	1.4	2.3	13	DEP			
10	2120	8.43	19	13.01	155 32.63	10.29	3.1	3.1	51	9	80	18	6	0.5	0.6	45	LSW		
11	322	12.68	19	19.20	155 12.96	8.42	2.0	2.0	51	5	82	12	4	0.4	0.5	48	SF2		
11	654	27.81	19	23.45	155 27.28	10.32	2.2	2.1	46	6	31	13	2	0.3	0.5	41	KAO		
11	1511	58.59	19	30.26	154 55.27	40.31	3.6	3.6	59	11	65	10	4	0.7	0.9	51	IER		
11	1547	57.32	19	16.87	155 7.14	40.76	2.2	1.6	43	8	198	12	2	1.0	0.9	40	DEP		
11	1725	59.79	19	20.65	155 8.90	8.26	1.6	1.7	38	2	67	09	3	0.4	0.7	35	SF4		
11	2126	15.83	19	12.85	155 32.51	9.22	2.5	2.6	42	5	80	12	6	0.4	0.7	39	LSW		
12	1055	10.54	19	21.75	155 17.20	31.20	2.2	2.0	50	9	44	13	3	0.5	0.7	43	DEP		
12	1435	55.02	19	35.74	155 51.68	14.46	2.8	2.4	44	9	166	13	10	0.6	0.3	40	KON		
12	16	1	36.65	20	36.10	154 52.62	17.22	2.5	2.0	37	4	297	12	93	2.1	99.0	37	DIS	

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 26

YEAR	MON	DA	HR	MIN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	NO REMK		
1985	JUL	13	6	4	34.22	19	19.73	155 11.94	8.24	1.4	1.4	32	4	87	09	6	0.4	0.7	30	SF3
13	719	48.94	19	19.70	155 12.44	7.54	1.9	1.9	37	2	82	09	5	0.4	0.6	35	SF2			
13	1223	39.90	19	21.38	155 2.67	5.90	1.5	1.1	32	3	131	13	3	0.6	1.0	30	SF5			
13	1410	34.41	19	22.12	155 26.83	9.28	2.3	1.9	48	4	42	15	2	0.4	0.6	43	KAO			
13	1537	4.47	19	28.48	155 28.12	8.90	1.9	1.2	39	6	58	11	7	0.3	0.9	30	KAO			
14	357	42.17	19	46.08	155 39.72	12.44	3.2	3.1	56	10	98	12	10	0.5	0.4	48	KEA			
14	1217	3.53	19	19.45	155 7.94	8.53	1.3	1.1	26	3	97	08	4	0.4	0.8	24	SF4			
14	2126	56.24	19	20.36	155 11.41	7.78	1.9	1.9	45	4	79	13	4	0.4	0.7	39	SF3			
15	251	10.22	19	18.61	155 15.58	6.37	1.3	1.1	34	2	114	14	4	0.5	0.9	33	SF1			
15	317	49.38	19	14.87	155 35.19	7.46	2.1	1.7	41	5	76	18	3	0.5	0.8	39	LSW			
15	8	4	31.90	19	11.23	155 35.57	8.17	2.9	2.7	47	8	96	20	7	0.5	0.8	43	LSW		
16	328	26.84	19	19.62	155 8.65	8.13	1.7	1.7	40	5	78	10	4	0.4	0.6	37	SF4			
16	632	1.10	19	20.69	155 11.60	9.70	2.1	2.3	41	5	72	10	4	0.3	0.4	36	SF3			
16	1638	17.33	19	20.27	155 12.95	7.26	1.4	1.3	30	1	68	10	4	0.4	0.8	28	SF2			
16	23	8	17.51	19	19.49	155 9.69	6.58	1.6	1.6	36	5	94	08	5	0.4	0.6	31	SF3		
16	2337	34.49	19	20.58	155 10.21	8.44	2.0	2.3	42	3	75	12	3	0.4	0.7	39	SF3			
17	8	0	24.53	19	19.79	155 11.50	7.65	1.6	1.6	27	0	88	10	5	0.5	0.7	26	SF3		
17	23	7	59.99	19	20.38	155 12.99	7.24	1.3	1.3	34	2	66	13	4	0.5	0.8	33	SF2		
17	2333	7.61	19	22.54	155 4.46	8.37	2.0	2.0	43	5	83	14	4	0.4	0.5	38	SF5			
18	218	28.55	19	23.89	155 27.62	10.46	2.8	2.9	54	9	29	12	3	0.3	0.3	45	KAO F			
18	327	4.84	19	31.44	155 14.78	25.24	2.4	1.9	48	6	62	11	12	0.5	0.9	42	DEP			
18	815	33.47	19	23.18	155 20.96	10.82	2.1	1.6	40	5	43	08	7	0.4	0.5	31	KAO			
18	11	1	14.04	19	26.19	155 21.83	9.16	1.8	1.3	29	3	52	13	3	0.4	0.8	26	KAO		
18	1628	59.68	19	16.69	155 28.30	7.78	1.8	1.7	42	5	56	16	4	0.4	0.9	40	LSW			
18	1740	59.16	19	25.67	155 29.58	8.51	1.9	1.3	37	4	38	13	6	0.4	0.9	33	KAO			
18	1829	49.16	19	20.01	155 11.73	6.80	1.4	1.1	26	1	83	12	5	0.5	0.9	25	SF3			
18	1956	9.56	19	25.62	155 21.82	8.52	1.5	1.1	36	3	33	13	4	0.4	0.8	32	KAO			
19	846	9.08	19	19.94	155 7.65	8.91	1.9	2.1	45	6	97	08	5	0.3	0.4	40	SF4			
19	2357	27.10	19	14.67	155 33.36	6.82	1.9	1.3	37	4	73	17	8	0.5	1.2	36	LSW			
20	635	24.33	19	16.26	155 12.73	7.07	1.4	1.3	30	1	190	13	2	0.6	0.8	30	SF2			
20	737	53.53	19	22.30	155 4.37	7.59	1.6	1.8	36	4	83	12	4	0.4	0.6	32	SF5			
20	1345	12.00	19	23.90	155 26.54	10.44	1.9	1.8	36	3	36	10	3	0.4	0.7	33	KAO			
21	914	14.91	19	19.72	155 11.63	7.08	1.7	1.5	40	4	89	10	5	0.4	0.7	38	SF3			

1985 HVO EARTHQUAKE SUMMARY LIST

1985 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG NR	GAP NS	RMS DEG	MIN SEC	ERH DIS	ERZ NO KM FM REMK
1985	JUL	24	1147	59.35	19 47.25	155 26.59	23.98	2.9	2.5 61 16	84	.11	2	0.4	0.9 49 KEA
		25	517	38.86	19 9.17	155 35.96	7.62	2.5	2.6 39 5	114	.16	11	0.5	0.9 36 LSW
		25	534	13.55	19 44.69	156 29.07	35.11	3.7	4.1 58 11	238	.12	66	0.9	1.7 49 DIS F
		25	1825	52.91	19 22.27	155 28.92	9.64	1.8	1.5 37 2	38	.10	2	0.3	0.6 35 KAO
		25	2345	23.67	19 28.21	155 25.89	2.39	1.6	1.1 27 5	76	.17	5	0.4	1.2 24 KAO
		26	749	49.93	19 31.68	155 12.01	24.45	2.4	1.9 50 11	62	.12	14	0.5	1.0 46 DEP
		26	23	4 41.84	19 25.48	155 19.23	6.47	1.5	1.5 26 3	124	.10	3	0.4	1.0 24 KAO
		27	552	41.13	19 22.96	155 27.58	10.20	2.0	1.7 38 3	35	.12	1	0.4	0.6 35 KAO
		27	1023	29.50	19 18.34	155 13.02	9.48	2.1	2.1 43 5	97	.11	3	0.5	0.5 40 SF2
		27	1237	35.37	19 21.26	155 24.40	10.59	1.8	1.7 34 3	66	.11	3	0.4	0.6 29 SWR
		27	1842	49.89	19 21.71	155 30.27	8.93	1.7	1.1 32 2	46	.10	5	0.4	0.9 30 KAO
		28	1857	25.60	20 3.40	155 32.19	8.58	2.6	2.2 47 9	198	.13	25	0.6	0.6 42 KEA
		28	2152	35.71	19 24.16	155 16.15	18.81	1.7	1.7 48 7	70	.11	1	0.5	0.8 44 DEP
		28	2356	51.69	18 54.48	155 16.31	14.44	2.4	3.1 30 3	256	.11	34	1.4	3.3 29 LOI L
		29	252	30.12	18 48.76	155 14.27	11.60	2.3	2.4 27 3	269	.12	45	1.5	1.6 26 LOI
		29	410	45.64	19 20.56	155 11.60	8.56	2.2	2.3 48 7	75	.13	4	0.4	0.4 42 SF3
		29	1122	29.97	19 19.80	155 11.50	8.21	1.7	1.1 25 2	88	.12	5	0.6	0.9 23 SF3
		30	220	20.34	19 19.48	155 15.14	8.62	1.8	1.7 41 4	93	.11	4	0.4	0.5 38 SF1
		30	943	59.21	19 21.86	155 1.67	6.13	2.3	2.0 42 6	152	.13	4	0.5	0.8 38 SF5
		30	15	3 25.55	19 18.50	155 15.35	8.70	1.8	1.7 37 4	104	.10	4	0.4	0.5 34 SF1
		31	650	38.77	19 25.05	155 19.09	5.37	1.3	1.1 24 2	106	.08	3	0.4	0.8 21 KAO
		31	813	27.60	19 26.11	154 54.19	8.03	1.8	1.4 31 1	169	.12	3	0.8	0.8 31 LER
		31	940	15.67	18 54.77	155 15.28	11.20	2.9	3.5 45 5	247	.12	35	1.0	0.6 44 LOI
		31	1822	53.06	19 19.49	155 11.25	6.79	1.5	1.2 22 0	97	.10	5	0.6	1.1 21 SF3
		31	1929	15.33	19 19.23	155 9.58	7.76	1.9	1.8 42 6	100	.08	5	0.3	0.5 38 SF3
		31	20	3 51.81	19 17.84	155 27.82	9.21	1.7	1.8 40 4	78	.13	6	0.4	0.6 37 LSW
		31	22	5 34.08	19 24.83	155 19.32	6.25	2.0	1.9 34 5	45	.11	2	0.4	0.7 30 KAO
		31	2321	28.23	19 21.82	155 2.77	6.32	1.3	1.1 26 4	136	.15	4	0.6	1.1 23 SF5
		31	2343	1.02	19 19.97	155 8.47	5.92	1.9	2.0 43 6	79	.10	5	0.4	0.6 38 SF4
AUG		1	714	17.22	19 20.03	155 7.52	7.31	1.7	1.6 39 5	98	.10	5	0.4	0.7 36 SF4
		1	15	5 17.83	19 21.89	155 6.66	7.52	1.7	1.4 33 3	80	.11	3	0.4	0.7 25 SF4
		1	15	9 59.76	19 22.86	155 1.98	8.09	2.4	2.4 42 2	133	.12	5	0.5	0.4 25 SF5
		1	2320	45.23	19 23.58	155 23.11	10.06	1.5	1.3 41 4	41	.13	5	0.4	0.6 28 KAO
		2	052	22.49	19 11.26	155 29.16	34.17	2.0	1.5 42 3	147	.10	7	0.8	1.3 37 DLS
		3	123	26.75	19 20.80	155 13.05	7.17	1.6	1.2 36 2	61	.14	3	0.5	0.7 30 SF2
		3	1621	39.76	19 11.11	155 29.27	33.32	2.0	1.7 40 4	81	.08	4	0.6	1.0 39 DLS
		4	217	58.51	19 24.01	155 16.00	3.05	1.1	1.4 23 5	107	.09	1	0.3	0.2 20 SEC
		4	441	55.34	18 52.33	155 11.23	22.63	2.3	3.0 28 6	269	.12	43	1.4	6.0 26 LOI L
		4	8	6 16.72	19 19.90	155 11.94	6.76	1.5	1.3 40 3	83	.12	5	0.4	0.8 38 SF3
		4	825	37.49	19 24.86	155 16.64	10.85	0.9	1.2 17 2	145	.11	1	0.8	1.1 15 INT L
		4	10	7 22.56	19 10.82	155 27.94	7.51	2.3	2.1 42 6	106	.15	2	0.4	0.8 39 LSW
		4	12	3 40.90	19 29.49	155 0.34	42.78	3.2	3.1 55 6	73	.11	6	0.7	1.1 49 DEP
		4	1724	38.08	19 25.13	154 56.37	38.88	3.1	2.9 50 7	166	.11	4	0.8	0.9 45 LER
		4	1846	31.74	19 41.08	155 18.59	35.04	2.8	2.6 80 15	94	.11	19	0.5	0.9 50 KEA
		4	2010	22.76	19 21.53	155 25.76	9.49	1.7	1.3 39 2	48	.13	4	0.4	0.7 36 KAO

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG NR	GAP NS	RMS DEG	MIN SEC	ERH DIS	ERZ NO KM FM REMK
1985	AUG	5	821	27.05	19 18.14	155 13.18	7.03	1.3	1.1 17 0	96	.09	2	0.7	1.3 14 SF2
		5	1710	4.11	19 21.22	155 13.10	9.01	2.3	2.5 47 7	57	.13	3	0.3	0.5 42 SF2
		5	1821	22.72	19 19.67	155 13.38	9.44	2.1	1.9 46 5	120	.12	6	0.5	0.5 42 SF2
		5	1848	4.92	19 19.70	155 11.81	6.62	1.5	1.1 33 1	89	.12	6	0.5	1.0 31 SF3
		6	032	22.79	19 24.91	155 19.70	5.63	2.4	2.5 46 9	37	.11	2	0.3	0.6 38 KAO
		6	150	29.00	19 19.13	155 13.08	5.79	1.7	1.6 38 5	80	.14	4	0.5	1.1 35 SF2
		6	710	53.74	19 15.84	155 27.10	9.34	1.6	1.7 30 1	70	.12	5	0.4	0.9 26 LSW
		6	8	6 59.39	19 12.11	155 27.31	8.84	3.2	3.6 51 5	119	.19	5	0.5	0.7 42 LSW F
		6	12	1 23.62	20 0.02	155 21.51	13.94	2.3	2.1 21 4	207	.08	12	0.9	0.4 20 KEA
		6	1429	13.05	19 11.83	155 27.07	4.73	1.8	1.2 32 2	126	.15	5	0.6	2.7 32 LSW
		6	2027	7.37	19 11.20	155 29.38	33.89	2.2	1.9 47 6	81	.08	4	0.6	0.9 45 DLS
		6	2126	50.53	19 11.70	155 27.52	6.24	1.9	1.4 33 2	117	.14	4	0.6	1.4 30 LSW
		7	035	55.69	19 18.89	155 13.43	5.86	1.5	1.5 37 5	75	.14	3	0.4	0.9 33 SF2
		7	4	6 58.71	19 16.73	155 22.45	7.33	1.9	2.0 52 5	125	.16	5	0.4	0.7 49 SWR
		7	446	43.85	19 11.61	155 27.49	6.78	1.8	1.3 33 3	118	.15	4	0.6	1.4 30 LSW
		7	858	12.61	19 19.50	155 11.69	8.36	1.3	1.1 24 0	94	.10	6	0.6	1.2 23 SF3
		7	1439	30.96	19 22.02	155 6.55	7.93	1.8	2.2 36 2	75	.14	2	0.5	0.8 34 SF4
		7	1752	11.35	19 10.08	155 33.04	1.18	1.7	1.4 31 4	115	.16	9	0.5	0.8 30 LSW
		8	1231	52.79	19 19.07	155 13.25	9.50	2.4	2.5 48 5	128	.12	7	0.5	0.5 43 SF2
		8	1233	16.29	19 17.88	155 12.97	7.59	1.8	1.7 39 5	113	.10	2	0.5	0.7 36 SF2
		8	1258	6.71	19 12.58	155 28.56	6.65	2.1	1.7 34 5	91	.12	5	0.4	0.9 30 LSW
		8	1646	29.90	19 20.97	155 12.84	8.92	2.6	2.7 46 5	61	.11	3	0.3	0.4 41 SF2
		8	1652	6.72	19 20.20	155 12.86	6.93	1.3	1.1 27 1	70	.12	5	0.6	1.0 26 SF2
		9	1445	32.96	19 16.22	155 48.46	10.92	2.4	1.8 39 7	112	.15	7	0.6	0.4 34 KON
		9	21	5 32.29	19 25.22	155 30.13	11.37	2.9	2.9 48 5	34	.11	7	0.3	0.4 43 KAO
		9	23	1 32.52	19 25.46	155 19.54	5.84	1.5	1.4 26 4	117	.08	3	0.3	0.9 22 KAO
		10	022	54.43	19 38.11	155 59.97	38.93	2.4	1.8 39 2	253	.12	18	1.7	1.5 38 KON
		10	945	42.96	19 49.83	156 8.50	32.85	2.1	1.8 42 7	290	.12	36	1.1	1.3 40 HUA
		10	1428	40.03	18 52.38	155 15.38	13.23	2.1	1.5 31 4	295	.11	39	1.5	2.0 30 LOI L
		10	1853	54.54	19 21.71	155 26.46	9.89	1.7	1.7 35 3	46	.13	3	0.4	0.7 31 KAO
		10	1857	26.90	19 21.67	155 26.50	10.23	2.1	2.0 43 3	46	.12	3	0.4	0.5 38 KAO
		10	1934	56.89	18 57.72	155 14.94	12.57	2.3	2.8 31 1	280	.10	31	2.5	0.6 30 LOI L
		10	2223	6.08	19 32.61	155 37.47	10.30	2.6	2.2 43 4	49	.17	4	0.5	0.7 40 MLO
		11	210	57.17	18 31.88	153 59.30	17.88	2.3	2.3 39 2	332	.16137	7.2	98.7	38 DIS
		11	1743	40.18	19 21.31	155 23.26	9.84	1.4	1.2 22 3	55	.10	2	0.5	0.9 20 SWR
		11	1745	53.79	19 16.37	155 28.90	10.31	1.3	1.3 22 3	58	.17	3	0.6	1.4 22 LSW
		11	1857	11.91	20 0.73	158 1.56	10.10	2.9	3.3 44 7	254	.13	29	0.8	0.5 42 KOH
		11	2334	25.23	19 16.87	155 21.85	4.73	0.9	1.3 25 3	150	.13	6	0.5	2.7 24 SWR
		11	2358	4.43	19 22.50	155 4.03	8.50	2.1	2.3 45 7	96	.14	4	0.5	0.4 40 SF5
		12	746	45.24	19 17.69	155 12.94	6.84	1.5	1.5 37 3	124	.11	2	0.4	0.7 36 SF2
		12	752	38.78	19 17.88	155 14.45	7.14	1.4	1.1 29 1	118	.12	2	0.6	0

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 29

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ DIS	NO KM	FM	REMK			
1985	AUG	13	10	2	53.93	19 11.63	155	39.47	10.63	3.5	3.9	35	1	108	.19	7	0.7	0.8	23	LSW F
		13	1112	10.58	19 19.79	155	11.64	7.80	2.2	2.6	45	5	87	.14	5	0.4	0.6	41	SF3	
		13	1138	19.42	19 17.37	155	14.17	6.94	1.3	1.1	26	3	148	.10	1	0.5	0.8	26	SF2	
		13	2219	56.96	19 20.05	155	15.78	8.27	1.3	1.1	38	5	90	.13	3	0.4	0.7	34	SF1	
		14	839	13.28	19 21.28	155	16.62	25.85	2.3	2.2	50	6	66	.11	2	0.6	0.7	43	DEF	
		14	1919	24.83	19 21.80	155	29.94	9.70	2.1	2.2	44	2	34	.09	4	0.3	0.6	41	KAO	
		14	20	1	7.28	19 19.63	155	11.55	6.70	1.4	1.3	32	2	92	.10	5	0.4	0.9	32	SF3
		14	22	0	17.65	19 18.79	155	14.86	7.80	1.2	1.3	30	2	101	.08	4	0.5	0.8	29	SF1
		15	356	52.30	19 22.51	155	30.12	9.99	1.6	1.3	32	3	46	.10	4	0.4	0.8	31	KAO	
		15	634	22.18	19 47.15	155	33.55	28.02	2.1	1.6	44	11	115	.11	11	0.5	1.1	42	KEA	
		15	1840	41.66	19 20.61	155	13.06	7.52	1.6	1.3	35	2	63	.12	4	0.5	0.7	34	SF2	
		16	257	13.53	19 20.33	155	7.70	7.68	1.9	2.0	47	5	90	.13	5	0.4	0.6	44	SF4	
		16	1148	15.11	19 21.97	155	0.78	1.91	1.6	1.1	22	2	175	.15	5	0.7	1.6	20	SF4	
		16	1415	53.00	19 21.32	155	6.38	6.98	1.4	1.1	25	3	88	.11	4	0.5	0.8	25	SF4	
		16	1547	13.36	19 22.02	155	5.68	7.90	1.8	1.7	33	3	76	.11	3	0.4	0.7	29	SF4	
		16	1742	5.14	19 9.79	155	35.03	9.65	2.6	2.3	41	5	112	.14	10	0.5	0.7	40	LSW	
		16	1758	9.57	19 21.13	155	6.55	5.50	1.5	1.4	38	4	91	.19	4	0.6	1.3	38	SF4	
		16	1835	1.49	19 27.34	155	28.31	8.82	1.8	1.3	39	5	56	.11	7	0.4	0.9	35	KAO	
		16	19	0	16.95	19 19.99	155	12.12	7.14	1.3	1.2	26	1	81	.09	5	0.6	1.0	25	SF3
		16	19	5	3.20	19 9.44	155	34.91	8.72	2.1	1.6	29	5	116	.14	11	0.5	1.1	27	LSW
		17	1852	23.41	20 2.40	155	27.30	11.28	1.5	1.4	26	3	212	.25	20	1.6	1.1	22	KEA	
		17	20	1	58.31	19 16.86	155	15.24	10.17	2.1	2.2	31	1	154	.12	6	0.6	0.7	27	SF1
		18	424	55.95	19 20.54	155	12.55	7.22	1.2	1.2	25	0	68	.10	4	0.5	0.7	20	SF2	
		18	6	5	8.94	18 51.80	155	14.94	12.30	2.2	1.9	18	2	273	.10	40	1.6	1.3	17	LOI L
		18	940	58.95	19 26.77	155	29.13	10.61	2.2	1.9	41	5	45	.10	8	0.4	0.6	36	KAO	
		18	10	5	21.24	19 21.69	155	5.93	7.55	1.8	1.8	44	7	82	.13	3	0.4	0.6	39	SF4
		18	1538	15.21	19 23.59	155	26.12	10.96	1.9	1.5	41	4	37	.12	3	0.4	0.5	37	KAO	
		19	356	6.25	19 25.77	155	21.90	9.02	2.0	1.7	47	5	32	.13	4	0.3	0.6	42	KAO	
		19	530	3.70	19 15.59	155	29.96	9.05	2.2	1.9	43	4	67	.15	1	0.4	0.7	41	LSW	
		19	855	56.93	19 15.59	155	33.70	7.98	2.2	1.7	43	5	63	.18	6	0.5	0.8	41	LSW	
		20	722	4.54	19 16.58	155	22.30	7.22	2.6	3.0	52	5	130	.14	5	0.4	0.6	48	SWR	
		20	723	55.74	19 15.97	155	21.81	7.50	1.3	1.2	26	3	176	.11	5	0.6	1.0	22	SWR	
		20	1030	2.66	19 19.48	155	11.92	7.51	1.8	1.7	38	4	82	.10	5	0.5	0.7	35	SF3	
		20	1715	43.83	19 20.69	155	12.79	7.46	1.6	1.3	35	3	84	.13	4	0.5	0.7	33	SF2	
		20	1948	54.60	21 0.50	156	10.01	32.83	3.2	3.1	44	6	302	.13	28	1.6	1.2	41	DIS	
		21	1	6	4.77	18 49.83	155	15.97	12.04	2.2	1.9	28	2	300	.10	42	1.8	1.8	28	LOI L
		21	2	8	47.00	19 20.20	155	11.79	7.73	2.3	2.2	53	6	79	.14	5	0.4	0.5	48	SF3
		21	541	58.77	19 20.61	155	7.95	7.13	1.9	1.8	41	5	83	.10	4	0.4	0.6	36	SF4	
		21	10	6	3.84	19 20.50	155	11.79	8.34	1.6	1.5	29	0	74	.12	4	0.6	1.0	29	SF3
		21	14	2	0.30	19 41.97	155	2.11	0.01	2.2	2.2	24	0	124	.25	1	1.3	1.3	24	HIL B
		21	1445	46.35	19 19.34	155	10.22	6.41	1.6	1.5	35	2	102	.14	5	0.6	0.9	33	SF3	
		22	828	0.16	19 18.55	156	4.22	40.04	4.2	4.7	62	14	248	.09	21	0.7	0.6	51	KON F	
		22	948	41.24	19 19.69	155	12.24	7.06	2.1	2.0	43	2	85	.16	5	0.5	0.7	41	SF3	
		23	225	25.02	19 18.38	155	13.17	8.02	2.0	1.9	46	5	91	.12	3	0.4	0.5	43	SF2	
		23	4	1	8.97	19 19.13	155	13.12	9.10	2.4	2.7	50	5	79	.12	4	0.4	0.5	46	SF2

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 30

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ DIS	NO KM	FM	REMK				
1985	AUG	23	15	3	5	15	19 20.77	155	12.29	7.96	1.9	1.8	38	4	68	.10	4	0.4	0.5	35	SF3
		23	1555	29	37	19 56.79	155	19.23	27.39	2.5	2.1	51	13	198	.12	7	0.7	1.0	45	KEA	
		23	1811	28	71	18 54.92	155	16.33	13.78	2.3	3.3	24	3	262	.11	34	1.4	1.3	24	LOI L	
		24	111	10.65	20 32.71	155	31.19	0.70	3.1	3.4	41	6	297	.14	54	7.0	2.2	37	DIS		
		24	757	51.59	19 29.55	155	27.64	5.89	2.0	1.7	20	1	80	.09	5	0.4	1.8	18	KAO		
		24	1026	13.53	19 22.62	155	8.34	2.85	1.3	1.4	18	1	95	.11	3	0.5	0.5	18	SER		
		24	2018	59.09	18 54.56	155	15.24	11.52	2.1	2.3	27	3	257	.12	35	1.6	0.6	27	LOI L		
		24	2139	58.64	19 23.00	155	26.71	10.09	2.1	2.2	43	4	40	.12	2	0.4	0.5	40	KAO		
		24	2140	52.57	19 9.29	155	34.75	7.73	2.6	2.2	37	5	119	.14	11	0.5	1.3	35	LSW		
		25	047	35.27	19 20.27	155	11.72	7.68	1.7	1.8	43	4	78	.12	5	0.4	0.6	40	SF3		
		25	253	57.89	19 20.59	155	11.91	7.92	2.9	3.0	55	7	73	.14	4	0.4	0.5	49	SF3		
		25	358	57.84	19 22.32	155	4.51	7.18	1.7	1.7	33	4	86	.18	4	0.6	1.1	30	SF5		
		25	443	1.48	19 17.08	155	22.78	5.06	2.0	2.3	48	4	114	.16	6	0.4	1.3	47	SWR		
		25	711	7.13	19 20.52	155	10.74	7.59	2.5	3.0	53	7	77	.14	3	0.4	0.5	49	SF3		
		25	755	30.52	19 17.66	155	12.60	6.40	1.2	1.5	27	2	140	.10	2	0.6	1.0	27	SF2		
		25	1419	22.00	19 23.11	155	8.51	2.82	1.0	1.0	11	1	106	.12	3	0.9	0.5	11	SER		
		25	16	9	26.98	18 18.26	155	13.38	7.84	1.5	1.5	35	3	85	.09	2	0.5	0.7	33	SF2	
		25	1936	33.97	19 23.02	155	13.08	6.56	1.2	1.1	17	3	85	.15	1	0.7	1.1	14	SF2		
		25	1941	43.86	18 54.53	155	15.93	12.22	2.1	2.1	29	3	256	.11	35	1.4	0.8	29	LOI L		
		25	1944	47.74	18 58.70	155	15.71	12.22	2.0	2.4	32	6	242	.11	29	0.9	0.5	32	LOI L		
		26	6	6	29.79	19 19.22	155	9.83	6.80	1.7	1.5	41	4	102	.10	5	0.4	0.7	38	SF3	
		26	7	1	47.31	19 24.97	155	19.37	5.30	1.7	1.8	35	5	38	.10	2	0.3	0.7	30	KAO	
		26	1130	56.91	19 20.34	155	7.30	8.18	2.3	2.3	44	6	97	.11	6	0.4	0.6	39	SF4		
		26	1926	39.34	19 21.05	155	6.07	7.69	1.5	1.7	32	2	96	.12	4	0.5	0.8	32	SF4		
		26	1932	29.99	19 21.35	155	5.89	7.60	1.3	1.3	32	2	90	.12	4	0.4	0.8	31	SF4		
		27	016	18.70	19 28.98	155	14.62	32.07	2.3	1.8	55	9	49	.11	4	0.5	0.7	49	DEF		
		27	147	27.21	19 17.62	155	15.16	6.74	1.3	1.1	34	1	140	.11	3	0.5	0.8	32	SF1		
		27	7	5	4.00	19 24.94	155	19.88	7.19	2.1	2.0	44	6	37	.12	2	0.3	0.6	39	KAO	
		27	1054	55.82	18 55.08	155	16.71	13.32	2.4	2.8	34	6	253	.11	33</						

1985 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ NO DIS	NO KM	FM	REMK		
1985	AUG	30	1259	1.93	19 23.95	155 15.71	3.58	1.6	1.6	23	4	110	.08	2	0.3	0.3	21	SEC	
		30	25	26.72	19 21.91	155 5.79	6.94	1.5	1.5	38	1	79	.17	3	0.6	1.0	35	SF4	
		31	028	40.43	19 20.08	155 12.08	7.01	1.5	1.6	41	3	80	.11	5	0.4	0.6	38	SF3	
		31	041	3.20	19 24.56	154 58.20	7.38	2.2	2.6	38	1	166	.14	1	0.7	0.6	34	LER	
		31	051	39.25	19 19.61	155 8.19	7.80	1.6	2.0	37	2	88	.08	4	0.4	0.7	35	SF4	
		31	229	29.38	19 22.05	155 28.96	10.19	1.5	1.4	37	3	40	.11	3	0.3	0.6	35	KAO	
		31	533	16.97	19 25.21	155 18.96	6.17	2.4	2.6	48	10	38	.11	2	0.3	0.5	41	INT	
		31	534	34.05	19 24.90	155 19.28	6.20	1.6	1.1	24	4	98	.10	2	0.4	0.8	21	KAO	
		31	619	1.15	19 21.52	155 6.19	7.24	1.7	1.5	36	2	85	.14	3	0.5	0.9	36	SF4	
		31	14	8 11.53	20 3.99	155 28.48	48.81	2.0	2.0	44	10	207	.11	24	0.9	0.7	40	KEA	
		31	16	3 9.47	19 26.62	155 26.27	4.81	1.5	1.2	29	3	58	.11	3	0.3	1.3	26	KAO	
		31	1735	11.16	19 17.07	155 15.01	6.31	1.5	1.2	26	0	162	.07	3	0.6	1.1	25	SF1	
		31	2214	51.68	19 22.28	155 2.27	7.47	1.6	1.3	33	3	146	.17	5	0.8	0.5	33	KAO	
		SEP	1	34.01	19 22.36	155 29.95	9.54	1.7	1.2	33	1	45	.12	4	0.4	0.7	33	KAO	
		SEP	1	014	3.90	19 22.56	155 29.91	9.39	1.4	1.2	33	2	44	.08	4	0.3	0.8	32	KAO
		1	641	55.82	19 21.67	155 12.70	2.86	1.0	1.1	16	3	89	.07	2	0.4	0.5	14	SER	
		1	851	54.02	18 55.32	155 16.34	13.17	1.6	1.3	27	4	288	.13	33	1.7	1.0	27	LOI L	
		1	858	36.50	19 21.06	155 2.59	4.84	1.4	1.3	31	2	146	.14	2	0.6	1.1	31	SSF	
		1	1633	2.82	19 10.59	155 31.96	12.14	2.4	2.2	46	10	108	.12	7	0.4	0.5	41	LSW	
		1	1843	43.45	18 54.55	155 16.14	12.86	2.1	2.0	27	2	255	.11	35	1.6	1.2	27	LOI	
		1	20	5 37.43	19 26.93	155 29.51	9.25	1.7	1.2	35	5	61	.12	8	0.4	1.0	30	KAO	
		2	341	13.61	19 22.05	155 6.87	7.81	1.3	1.2	25	2	74	.13	2	0.4	0.9	25	SF4	
		2	440	9.58	19 49.72	156 19.90	6.32	2.9	2.5	50	9	277	.12	54	0.8	0.8	44	HUA	
		2	930	9.10	19 27.45	155 29.60	9.64	1.8	1.2	38	4	49	.17	8	0.5	1.1	35	KAO	
		2	1053	27.79	18 55.67	155 16.10	12.47	2.3	2.9	36	4	244	.12	33	1.4	0.6	35	LOI L	
		2	1456	46.92	19 26.88	155 28.57	8.54	1.9	1.7	43	4	44	.12	7	0.3	0.9	38	KAO	
		2	1951	12.42	19 19.69	155 13.75	9.86	3.3	3.5	54	10	61	.12	5	0.3	0.3	46	SF2	
		2	2048	54.04	19 34.61	155 22.12	9.39	2.3	2.0	47	5	83	.20	9	0.5	0.9	43	MLO	
		3	318	2.24	19 24.25	155 16.19	3.54	1.0	1.2	17	5	110	.08	1	0.4	0.3	14	SEC	
		3	1122	54.75	18 52.29	155 15.43	12.91	3.1	3.7	52	6	255	.11	39	1.0	1.3	49	LOI	
		3	12	5 0.20	19 23.88	155 15.93	3.22	1.5	1.6	25	5	104	.11	1	0.3	0.3	22	SEC	
		3	17	9 53.35	18 53.95	155 16.61	14.71	2.4	2.9	38	5	249	.11	35	1.2	3.1	38	LOI L	
		3	23	6 58.07	19 16.36	155 15.04	7.07	1.4	1.5	32	2	178	.13	3	0.6	0.9	32	SF1	
		4	045	17.97	19 20.72	155 12.95	8.23	1.4	1.3	30	1	67	.10	4	0.5	0.7	29	SF2	
		4	1327	25.48	19 21.46	155 3.24	7.23	3.0	3.1	47	5	107	.13	3	0.5	0.5	44	SF5	
		4	1649	2.09	19 22.35	155 30.12	9.58	1.8	1.5	36	2	49	.11	4	0.4	0.7	34	KAO	
		5	421	26.24	19 20.02	155 10.01	7.40	1.5	1.1	27	3	85	.07	4	0.5	0.8	23	SF3	
		5	6	5 37.45	19 47.14	155 22.15	26.26	2.1	1.5	44	11	91	.10	9	0.4	0.9	37	KEA	
		5	832	30.37	19 23.60	154 58.21	6.06	2.0	1.7	36	5	171	.20	3	0.9	1.0	33	LER	
		5	10	4 28.24	19 25.86	155 19.73	7.17	1.8	1.5	28	5	73	.12	4	0.4	0.8	24	KAO	
		5	1129	40.30	19 17.36	155 27.89	10.66	1.6	1.4	27	4	94	.12	6	0.4	0.7	26	LSW	
		5	13	1 7.40	19 19.97	155 11.63	9.56	2.9	3.0	53	7	82	.08	5	0.6	1.1	21	SF3	
		5	1355	9.06	19 18.92	155 12.08	8.15	1.4	1.3	21	0	82	.08	5	0.6	1.1	21	SF3	
		5	2232	13.36	19 20.82	155 9.82	7.05	1.4	1.3	31	2	70	.11	2	0.5	0.8	30	SF3	
		6	1	3 52.32	19 18.87	155 12.85	6.66	1.2	1.3	26	1	74	.13	5	0.5	0.9	24	SF2	

68

1985 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ NO DIS	NO KM	FM	REMK	
1985	SEP	6	857	40.83	19 11.36	155 28.32	6.02	2.0	1.5	25	2	116	.14	4	0.7	1.5	25	LSW
		6	923	20.38	19 25.89	155 27.89	8.69	2.0	1.7	38	4	56	.11	5	0.4	0.9	34	KAO
		6	1232	56.96	18 55.82	155 16.52	19.35	2.5	2.4	31	4	275	.12	33	1.7	7.0	30	LOI L
		6	2040	40.66	19 25.29	155 30.50	9.84	1.8	1.2	34	4	35	.10	7	0.3	0.8	30	KAO
		7	244	48.54	19 19.95	155 8.08	7.84	1.9	1.8	40	3	87	.10	5	0.4	0.7	37	SF4
		7	1223	45.80	19 22.26	155 29.85	9.74	2.3	2.1	42	2	33	.10	4	0.3	0.7	40	KAO
		7	14	4 49.13	19 19.42	155 13.12	9.32	2.6	2.8	49	6	76	.13	4	0.4	0.5	43	SF2
		7	14	6 35.96	19 18.60	155 12.90	5.51	1.6	1.6	37	3	95	.13	3	0.4	1.1	33	SF2
		7	1556	6.40	19 18.85	155 13.09	4.55	1.5	1.8	38	2	84	.12	3	0.4	1.5	37	SSF
		8	138	32.09	19 19.72	155 3.79	7.44	1.8	1.8	37	2	163	.13	2	0.8	0.5	35	SF5
		8	945	14.36	19 23.39	154 49.49	43.10	2.3	1.8	54	10	259	.12	8	1.1	0.7	52	LER
		8	1654	27.45	19 55.75	155 32.45	23.46	2.4	2.2	39	9	149	.14	15	0.6	1.1	36	KEA
		9	253	15.95	19 20.99	155 30.29	8.79	2.0	2.0	37	2	33	.12	5	0.4	1.0	35	KAO
		9	355	52.44	19 25.64	155 19.63	8.02	2.4	2.6	42	5	38	.12	4	0.3	0.6	34	KAO F
		9	858	10.58	19 22.19	155 27.43	9.81	2.0	2.0	45	4	41	.12	1	0.3	0.6	41	KAO
		9	12	4 57.92	19 19.88	155 8.00	6.88	1.5	1.5	23	2	90	.09	5	0.5	1.0	23	SF4
		10	1619	50.79	19 12.70	155 28.68	8.20	2.2	2.1	42	5	113	.14	5	0.4	0.6	39	LSW
		10	1625	15.67	19 11.22	155 29.11	34.17	2.4	2.0	50	10	75	.09	4	0.6	0.8	45	DLS
		11	531	23.03	19 19.40	155 15.75	7.56	1.8	1.8	40	3	101	.12	3	0.4	0.5	35	SF1
		11	548	44.26	20 1.30	155 20.93	13.37	2.2	1.6	25	4	211	.12	15	1.1	0.5	24	KEA
		11	1252	36.60	19 20.37	155 3.15	6.32	1.5	1.2	30	2	97	.16	1	0.7	0.8	29	SF5
		12	333	16.12	19 22.70	155 0.48	5.91	1.3	1.1	31	2	159	.15	5	0.8	1.4	30	SF5
		12	627	25.56	19 19.25	155 15.26	6.88	1.3	1.7	34	3	98	.11	4	0.4	0.8	31	SF1
		13	3	7 12.98	19 23.48	155 25.62	10.63	1.8	1.5	45	3	27	.13	3	0.3	0.5	42	KAO
		13	422	5.27	19 22.40	155 28.66	9.67	1.8	1.5	38	1	36	.10	2	0.3	0.6	36	KAO
		13	10	4 27.97	19 50.66	155 12.24	36.22	1.7	1.3	18	2	296	.08	40	3.3	3.6	18	KEA
		13	2122	6.80	19 5.45	156 11.61	30.18	1.5	2.9	4	287	.13	39	1.7	2.1	27	KON	
		14	1059	45.93	19 22.43	155 28.68	10.89	1.4	1.2	28	3	44	.11	2	0.4	0.8	27	KAO
		14	2359	27.89	19 20.14	155 11.60	9.70	2.9	3.3	52	9	81	.11	5	0.4	0.3	45	SF3 F
		15	1	5 15.15	19 20.75	155 2.53	6.71	2.7	3.1	41	5	148	.16	2	0.6	0.5	38	SF5
		15	258	2.19	19 23.78	155 27.17	9.78	1.2	1.1	28	4	55	.09	3	0.4	0.6	26	KAO
		15	437	2.05	19 28.18	155 26.94	7.											

1985 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	HR	MIN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ NO DIS	ERZ NO KM	FM	REMK	
1985	SEP	16	19	8	21	23	19 18.78	155 13.26	7.21	2.4	2.9	50	7	82	14	3	0.4	0.6	45 SF2
		17	811	42	40	19 21.03	155 2.39	5.54	2.0	1.6	34	4	148	14	2	0.5	1.0	32 SF5	
		17	935	27	56	19 21.56	155 4.99	5.75	1.6	1.6	31	5	84	15	4	0.5	1.0	28 SF5	
		17	13	4	25	24	19 24.02	154 57.42	6.69	1.9	1.6	32	4	172	20	3	0.7	0.7	29 LER
		18	5	5	20	19 21.74	155 30.50	9.77	1.8	1.5	37	3	33	08	5	0.3	0.7	35 KAO	
		18	12	7	56	19 56.33	155 38.38	11.44	2.9	2.7	48	9	133	14	9	0.6	0.3	42 KOH	
		18	1521	9	02	19 43.26	155 2.99	0.01	2.1	2.3	16	2	238	14	3	1.8	0.9	15 HIL B	
		19	614	3	76	19 20.39	155 11.46	7.70	2.3	2.4	49	5	78	12	4	0.4	0.6	46 SF3	
		19	616	0	45	19 19.10	155 15.19	7.73	2.2	2.3	49	5	91	11	4	0.4	0.5	42 SF1	
		19	2229	54	62	19 19.16	155 8.71	5.75	1.4	1.0	27	4	105	13	4	0.5	1.1	26 SF4	
		20	346	2	45	19 25.42	155 29.38	7.83	1.8	1.3	39	3	63	11	6	0.4	0.9	34 KAO	
		20	4	8	58	19 25.14	155 19.18	6.96	1.7	1.8	26	4	109	12	3	0.5	0.9	22 KAO	
		20	536	9	65	20 27.39	157 44.34	41.79	3.3	3.6	26	1	225	18	100	2.3	2.5	24 DIS	
		20	942	4	30	19 24.86	155 19.44	6.54	1.7	1.8	30	5	75	11	2	0.4	0.8	25 KAO	
		20	1049	29	36	19 42.86	155 2.32	0.01	2.1	2.6	26	2	246	24	2	2.0	0.9	25 HIL B	
		20	1134	0	15	19 21.58	155 6.27	10.38	1.1	1.7	20	3	84	08	3	0.5	0.9	19 SF4	
		20	1818	22	70	19 23.07	155 2.69	8.44	2.1	2.0	35	5	117	15	4	0.5	0.4	32 SF5	
		21	023	5	56	19 22.27	155 30.45	9.03	1.7	1.3	39	2	35	12	5	0.4	0.7	38 KAO	
		21	2	9	47	19 20.67	155 12.64	7.58	1.4	1.5	32	1	66	12	4	0.5	0.7	31 SF2	
		21	1140	37	23	19 29.68	155 59.72	10.69	2.9	2.8	47	10	245	17	8	0.9	0.5	41 KAO	
		21	2035	4	01	20 2.14	155 20.10	6.97	2.8	2.6	64	17	216	13	16	0.6	0.5	56 KEA	
		21	2037	15	54	19 19.53	155 7.55	7.03	1.5	1.7	35	3	107	09	4	0.4	0.7	34 SF4	
		22	450	59	74	19 21.96	155 3.49	5.19	1.6	1.1	20	1	109	14	4	0.6	1.7	16 SF5	
		22	452	18	20	19 25.48	155 19.93	7.08	1.9	2.1	39	4	38	11	3	0.3	0.6	33 KAO	
		22	712	9	83	19 19.18	155 52.12	7.98	2.6	1.6	45	10	162	15	6	0.5	0.5	39 KON	
		22	1440	4	81	19 19.52	155 11.40	6.54	1.3	1.1	26	1	96	11	5	0.6	1.1	26 SF3	
		22	16	5	28	19 20.20	155 12.94	7.22	1.3	1.1	30	3	68	11	5	0.5	0.8	30 SF2	
		23	053	8	39	19 19.99	155 11.40	6.16	1.4	1.1	29	2	86	13	5	0.5	1.1	29 SF3	
		23	312	42	01	19 21.77	155 29.93	8.12	1.8	1.3	24	1	116	13	4	0.6	1.3	17 KAO	
		23	415	44	59	19 19.67	155 11.60	7.24	1.5	1.6	40	4	91	10	5	0.4	0.7	38 SF3	
		23	641	51	30	19 20.18	155 10.35	8.06	1.8	1.8	37	2	82	10	4	0.4	0.6	36 SF3	
		23	16	1	28	19 8.47	155 35.51	10.73	2.5	1.9	31	4	123	16	12	0.7	0.7	28 LSW	
		23	1732	52	60	19 23.40	155 30.03	7.72	1.5	1.1	25	1	85	13	5	0.5	1.3	21 KAO	
		23	2318	57	99	19 19.74	155 11.25	8.34	1.4	1.7	30	0	91	11	5	0.4	0.7	27 SF3	
		24	656	23	27	19 21.13	155 6.90	6.08	1.5	1.3	19	0	88	09	4	0.6	1.1	17 SF4	
		24	1232	25	83	19 20.71	155 11.46	8.45	1.8	2.1	41	3	73	11	4	0.4	0.6	40 SF3	
		25	038	30	33	19 29.16	155 27.53	3.31	1.9	1.3	31	3	61	11	5	0.3	1.4	29 KAO	
		25	051	56	60	19 23.99	155 16.02	2.93	1.4	1.4	19	5	111	09	1	0.4	0.3	16 SEC	
		25	512	38	25	19 23.66	155 15.84	3.48	1.3	1.7	21	6	95	08	2	0.3	0.3	17 SEC	
		25	734	42	52	19 23.80	155 16.00	2.95	1.8	2.1	28	6	76	12	1	0.3	0.2	24 SEC	
		26	0	4	11	19 22.21	155 26.70	8.94	1.8	1.6	32	5	113	11	2	0.3	0.5	26 KAO	
		26	1227	1	38	19 22.96	155 26.31	9.37	2.0	1.8	26	2	99	10	2	0.4	0.8	23 KAO	
		26	1945	58	66	19 20.14	155 3.87	7.31	1.4	1.3	19	2	132	10	2	0.6	0.8	16 SF5	
		27	1138	42	61	19 22.23	155 18.54	31.48	2.1	2.0	35	2	33	11	4	0.6	1.0	33 DEP	
		27	12	7	54	19 59.28	156 12.32	38.87	2.2	1.8	22	6	324	08	63	2.1	3.5	21 KOH	

59

1985 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	HR	MIN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ NO DIS	ERZ NO KM	FM	REMK
1985	SEP	27	1423	2	10	19 19.87	155 30.35	9.43	1.2	26	1	133	11	7	0.6	1.1	23 KAO	
		28	3	8	57	19 20.99	155 12.86	7.74	1.8	1.9	31	1	61	12	3	0.5	0.7	29 SF2
		28	612	54	29	19 27.52	155 29.32	9.85	2.2	1.9	37	4	56	11	9	0.4	0.6	32 KAO
		28	2251	5	60	19 21.45	155 23.86	9.15	1.6	1.3	32	1	58	11	3	0.4	0.8	22 SWR
		30	1442	29	24	19 20.86	155 21.57	10.62	1.2	1.3	24	3	65	09	3	0.4	0.8	22 SWR
		30	1928	11	20	19 48.22	155 23.05	24.39	3.0	3.5	68	17	82	10	8	0.4	0.8	60 KEA F
		30	2133	42	15	19 18.36	155 14.94	7.06	1.5	1.6	35	2	102	13	4	0.5	0.8	34 SF1
		30	2143	3	44	19 18.44	155 15.11	6.38	1.4	1.3	34	2	103	14	4	0.5	0.8	32 SF2
OCT		1	012	47	94	19 18.76	155 13.29	5.87	1.3	1.5	35	3	81	13	3	0.5	1.0	33 SF2
		1	333	41	31	19 22.90	155 2.88	6.91	1.6	1.5	32	3	114	20	4	0.6	1.2	30 SF5
		1	756	22	44	19 21.12	155 21.41	9.52	1.7	1.7	29	4	60	09	4	0.3	0.8	27 SWR
		1	952	40	59	19 19.89	155 10.48	6.83	1.6	1.1	22	1	89	12	4	0.6	1.2	22 SF3
		1	1434	33	18	19 25.76	155 29.23	8.67	1.8	1.4	38	3	61	12	7	0.4	0.9	35 KAO
		1	1628	20	86	19 25.09	155 19.30	7.01	1.3	1.2	25	5	106	09	3	0.4	0.8	21 KAO
		1	2132	10	24	19 16.44	155 23.14	7.01	1.7	1.8	35	7	116	13	4	0.4	1.0	32 SWR
		1	23	2	30	19 18.58	155 15.36	8.07	1.7	1.9	43	4	113	13	4	0.4	0.8	41 SF1
		2	1319	36	16	19 21.55	155 18.51	2.70	1.3	1.3	18	4	72	09	3	0.3	0.7	15 SWR
		2	2317	39	14	19 18.59	155 14.06	8.58	1.9	2.2	40	3	76	11	3	0.5	0.6	39 SF2
		2	2338	26	45	19 19.89	155 8.13	5.83	1.5	1.5	35	3	87	12	5	0.5	1.1	34 SF4
		3	519	23	65	19 18.16	155 13.08	6.33	1.3	1.5	30	2	99	08	2	0.4	0.9	30 SF2
		3	610	6	79	19 20.09	155 28.49	9.55	2.0	2.0	40	4	41	10	5	0.3	0.6	36 KAO
		3	612	48	71	19 46.97	155 35.72	15.31	3.7	4.1	67	19	96	10	11	0.3	0.5	63 KEA F
		3	1017	7	32	19 47.17	155 35.36	13.95	2.4	2.6	47	13	92	10	11	0.4	0.4	41 KEA
		3	23	3	54	19 21.13	155 2.53	6.19	1.4	1.3	28	3	139	16	2	0.5	0.9	27 SF5
		4	324	7	34	19 20.74	155 28.32	10.65	1.6	1.3	32	3	50	11	4	0.4	0.6	31 KAO
		4	1025	45	76	19 20.68	155 14.16	31.19	2.8	2.8	54	11	60	12	4	0.6	0.7	47 DEP
		4	1122	51	35	19 55.95	155 33.84	34.94	2.8	2.2	47	11	146	11	13	0.6	1.0	41 KEA
		4	1737	37	58	19 20.96	155 14.01	33.23	2.8	2.6	62	12	56	11	3	0.5	0.6	52 DEP
		4	1812	9	02	19 20.24	155 12.53	6.86	1.4	1.6	38	2	73	13	5	0.5	0.8	35 SF2
		4	1953	8	18	19 22.50	155 1.16	6.63	1.6	1.5	35	3	152	16	6	0.6	1.0	34 SF5
		5	339	48	30	19 15.77	155 30.14	9.56	1.8	1.4	37	5	85	12	1	0.3	0.6	35 LSW
		5	6	5	48	19 17.20	155 11.56	1.67	1.4	1.6	34	2	170					

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 35

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 36

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ DIS	NO KM	FM	REMK	
1985	OCT	6	1759	51.00	19 17.27	155 13.14	6.50	1.5	1.3	32	4	145	.11	1	0.5	0.7	31	SF2
		6	1741	32.09	19 17.10	155 12.87	5.41	1.5	1.3	30	3	156	.08	1	0.4	0.7	28	SF2
		6	1745	5.25	19 16.56	155 12.89	7.81	1.7	1.8	36	5	164	.11	1	0.5	0.5	34	SF2
		6	1956	11.25	19 17.31	155 13.30	4.31	1.8	2.0	41	4	121	.11	1	0.4	0.6	39	SF2
		6	2044	11.19	19 20.61	155 10.75	7.86	1.6	1.5	33	4	76	.09	3	0.4	0.6	30	SF3
		7	11	6 25.71	19 17.23	155 13.33	5.57	1.7	1.6	28	2	124	.10	0	0.5	0.8	28	SF2
		7	1319	58.26	19 21.67	155 0.58	7.53	1.8	1.7	33	2	175	.14	5	0.8	0.6	31	SF5
		7	1524	21.50	19 19.54	155 15.42	8.92	2.8	3.0	53	9	95	.12	4	0.3	0.4	45	SF1
		7	1643	33.43	19 19.66	155 8.33	6.07	1.9	2.0	44	5	84	.10	4	0.4	0.7	42	SF4
		7	2334	25.43	19 18.57	155 14.45	6.74	1.5	1.1	35	2	97	.11	3	0.4	0.6	34	SF2
		8	252	53.01	19 14.32	155 13.52	0.54	1.7	1.8	34	2	191	.13	5	0.5	0.9	33	SSF
		8	3	8 17.50	19 13.81	155 12.44	0.13	1.9	1.9	37	3	199	.12	6	0.5	0.6	35	SSF
		8	930	33.19	19 17.48	155 12.98	6.31	1.5	1.3	30	2	135	.08	1	0.5	0.8	30	SF2
		8	1036	43.80	19 16.86	155 11.98	1.93	1.4	1.0	19	2	196	.09	3	0.9	0.5	18	SSF
		8	12	9 32.95	19 22.67	155 20.64	9.57	1.4	1.1	30	2	44	.10	3	0.4	0.9	27	KAO
		8	1326	25.10	19 23.90	155 26.77	9.62	1.6	1.1	32	2	42	.11	3	0.4	0.8	30	KAO
		8	1348	37.18	19 17.41	155 15.12	2.38	2.9	3.1	48	5	153	.13	2	0.4	0.6	45	SF3
		8	1611	0.38	19 19.44	155 12.06	6.09	1.5	1.1	38	3	91	.10	5	0.4	0.8	35	SF3
		8	1842	21.74	19 23.28	155 26.84	5.90	1.4	1.3	24	1	52	.13	2	0.4	0.9	23	KAO
		8	2120	39.85	19 22.68	155 20.75	9.85	2.0	1.9	44	2	45	.11	3	0.3	0.4	41	KAO
		8	2359	24.24	19 19.60	155 8.22	6.14	1.3	1.1	24	2	87	.12	4	0.5	1.1	24	SF4
		9	755	58.61	20 4.94	155 47.25	30.26	2.1	1.6	38	9	177	.10	5	0.6	0.9	35	KOH
		9	11	5 50.60	19 28.39	155 24.66	2.89	1.8	1.0	27	4	59	.11	4	0.3	0.8	24	KAO
		10	550	35.09	19 21.12	155 29.25	6.35	2.3	2.5	41	6	43	.11	4	0.3	0.9	37	KAO
		10	743	55.07	19 20.08	155 11.05	5.93	1.7	1.6	32	3	84	.15	4	0.5	1.0	30	SF3
		10	10	2 26.58	19 18.83	155 52.58	11.31	3.4	3.2	53	15	175	.12	5	0.5	0.2	50	KON
		10	1632	9.52	19 21.08	155 2.71	4.60	1.5	1.1	26	2	132	.19	2	0.8	1.5	24	SSF
		11	031	32.26	19 21.74	155 30.09	8.33	1.6	1.2	37	2	44	.12	5	0.4	0.9	35	KAO
		11	1251	1.98	19 28.44	155 27.48	2.96	1.8	1.2	36	6	71	.13	7	0.3	1.2	29	KAO
		11	1252	38.75	19 25.97	155 29.10	8.98	1.4	1.1	25	3	68	.07	7	0.4	1.0	21	KAO
		11	1344	46.08	19 17.79	155 23.66	8.80	1.7	1.2	18	2	92	.08	5	0.4	0.8	17	SWR
		11	1441	47.64	19 26.48	155 28.78	8.73	1.7	1.2	31	4	58	.09	7	0.4	1.0	27	KAO
		11	2048	53.25	19 9.69	155 32.07	6.84	1.5	1.5	33	4	123	.16	7	0.5	1.2	33	LSW
		11	2051	8.49	19 20.16	155 11.64	7.52	1.6	1.3	37	4	81	.10	5	0.4	0.6	35	SF3
		12	735	18.83	19 14.19	155 21.88	1.74	1.6	1.7	35	5	157	.10	4	0.4	0.6	32	SWR
		12	833	45.70	19 20.50	155 11.81	7.34	1.6	1.1	34	3	75	.13	4	0.5	0.7	32	SF3
		12	844	7.08	19 21.78	155 19.83	31.01	3.6	4.0	58	7	46	.12	4	0.5	0.8	51	DEP
		12	9	2 52.56	19 21.84	155 19.50	27.73	1.7	1.4	39	3	43	.10	3	0.7	1.1	36	DEP
		12	941	8.60	19 22.35	155 19.30	29.49	1.8	1.4	30	3	94	.12	5	0.8	1.4	27	DML
		12	1753	40.15	19 20.75	155 12.64	6.79	1.5	1.7	32	3	75	.12	4	0.5	0.8	30	SF2
		13	020	33.21	19 24.13	155 15.66	3.00	0.6	1.1	13	4	120	.09	2	0.4	0.5	10	SEC
		13	115	50.87	18 27.26	156 54.14	14.79	3.0	3.0	45	5	327	.19	14	27.5	43.4	45	DIS
		13	340	25.56	19 19.66	155 12.31	5.90	1.4	1.2	27	0	84	.13	5	0.5	1.2	26	SF2
		13	533	19.39	19 23.26	155 26.78	8.95	2.1	2.0	44	8	47	.13	6	0.3	0.8	37	KAO
		13	737	30.44	19 22.30	155 29.59	9.59	1.3	1.2	24	2	44	.10	3	0.5	0.9	22	KAO

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ DIS	NO KM	FM	REMK	
1985	OCT	13	2312	55.91	19 50.87	155 23.41	30.42	3.0	3.1	66	17	98	.12	7	0.5	0.8	58	KEA
		14	415	55.74	19 22.70	155 24.81	9.37	1.3	1.1	27	2	42	.11	5	0.4	0.7	25	KAO
		14	5	8 37.98	19 56.55	155 41.30	9.99	2.0	1.5	28	7	127	.18	10	0.6	0.6	27	KOH
		14	7	6 29.08	19 47.17	155 25.54	25.22	1.9	1.5	36	8	108	.11	3	0.6	1.3	33	KEA
		14	741	28.05	19 20.88	155 7.75	8.87	2.7	2.7	54	8	83	.11	4	0.4	0.3	48	SF4
		14	1334	55.82	19 26.50	155 23.80	8.91	1.9	1.3	36	5	45	.12	3	0.3	0.6	32	KAO
		14	1822	55.00	19 25.72	155 29.66	8.27	1.7	1.1	33	3	38	.10	7	0.3	0.9	27	KAO
		14	1913	40.87	19 20.80	155 2.95	8.67	3.1	3.3	50	7	120	.12	2	0.8	0.4	44	SF5
		14	2015	25.90	19 20.79	155 2.89	7.83	2.0	1.7	43	3	126	.13	2	0.6	0.5	41	SF5
		15	341	7.75	19 22.62	155 27.43	9.84	1.8	1.3	42	4	37	.12	0	0.4	0.6	38	KAO
		15	1445	21.17	19 20.98	155 8.10	7.65	1.5	1.2	23	1	75	.10	4	0.6	1.0	23	SF4
		15	1623	50.84	19 20.46	155 10.75	7.77	1.4	1.8	34	1	78	.11	3	0.5	0.7	33	SF3
		15	1659	18.79	19 20.28	155 11.31	7.58	1.4	1.7	38	2	81	.09	4	0.4	0.7	37	SF3
		15	2117	33.12	19 17.02	154 59.15	45.35	2.7	2.5	53	6	210	.11	9	1.1	0.8	49	LER
		15	2324	15.02	19 14.77	155 33.86	7.69	2.7	2.7	51	9	73	.19	6	0.5	0.8	45	LSW
		16	157	45.15	19 17.69	155 14.08	5.74	1.3	1.0	26	2	150	.09	2	0.5	0.8	25	SF2
		16	6	5 7.87	19 24.60	155 19.46	7.29	1.8	1.8	37	5	37	.11	2	0.4	0.6	32	KAO
		16	1052	17.81	19 18.87	155 15.40	7.56	1.8	1.8	40	4	76	.10	3	0.4	0.7	38	SF2
		16	1818	0.45	19 20.32	155 12.83	6.41	1.4	1.2	37	2	69	.13	4	0.4	0.7	35	SF2
		17	0	0 8.99	19 18.38	155 14.60	6.66	1.2	1.1	32	2	105	.11	3	0.4	0.9	31	SF1
		17	118	30.61	19 23.82	155 15.57	3.05	1.4	1.7	26	6	85	.10	2	0.3	0.3	22	SEC
		17	257	53.94	19 7.14	155 34.98	9.18	2.0	1.2	31	6	140	.14	13	0.6	1.2	29	LSW
		17	525	30.32	19 7.56	155 35.06	10.04	2.1	1.8	33	5	135	.14	13	0.5	0.8	31	LSW
		17	533	22.25	19 7.72	155 35.23	10.19	2.4	2.1	43	5	152	.13	13	0.5	0.7	41	LSW
		17	623	4.77	19 22.26	155 30.17	9.65	1.8	1.4	39	2	46	.10	5	0.3	0.7	37	KAO
		17	740	17.87	19 7.70	155 35.13	9.63	2.1	1.9	39	5	133	.15	13	0.5	0.9	35	LSW
		17	8	3 46.80	19 7.21	155 34.97	11.46	3.1	3.7	28	1	139	.13	13	0.5	0.4	26	LSW
		17	8	6 15.93	19 7.17	155 35.02	11.16	3.2	3.6	27	3	140	.13	13	0.5	0.6	24	LSW
		17	12	6 8.26	19 23.29	155 8.69	2.44	1.2	1.0	9	1	147	.11	3	1.0	0.8	9	SER
		17	1241	11.39	19 20.85	155 21.52	9.78	1.3	1.1	22	1	64	.09	3	0.5	0.7	21	SWR
		17	1423	43.24	19 21.13	155 12.68	7.84	1.8	2.0	40	5	61	.13	3	0.4	0.5	37	SF2
		17	1438	8.39	19 22.62	155 8.30	3.24	1.4	1.8									

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 37

YEAR	MON	ORIGIN TIME		LAT N		LON W		DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK		
		DA	HRMN	SEC	DEG	MIN	DEG													MIN	
1985	OCT	19	19	3	49.18	19	21.55	155	8.03	6.18	1.9	1.9	39	5	85	.15	3	0.5	1.0	36	SF4
		20	234	35.77	19	22.11	155	28.42	10.89	1.4	1.2	25	1	82	.10	2	0.5	0.8	24	KAO	
		20	359	53.45	19	28.83	154	51.66	3.37	1.5	0.9	13	3	121	.11	3	1.4	1.7	13	SLE	
		20	815	13.60	19	22.39	155	11.66	3.51	0.9	1.2	8	2	147	.12	3	1.4	0.7	7	SER	
		20	828	54.52	19	26.28	155	29.13	9.55	2.0	1.4	39	4	41	.09	7	0.3	0.8	34	KAO	
		20	1532	3.11	19	18.15	155	26.21	9.73	2.3	2.2	48	3	56	.14	6	0.4	0.6	45	LSW	
		20	1848	7.27	19	17.97	155	13.00	6.45	1.6	1.6	40	3	108	.11	2	0.4	0.7	36	SF2	
		21	2046	10.60	19	22.46	155	26.42	10.39	1.9	1.4	35	2	47	.10	2	0.4	0.6	33	KAO	
		21	2047	11.78	19	22.22	155	26.52	10.95	1.6	1.2	37	2	40	.11	2	0.4	0.6	34	KAO	
		21	2140	21.42	19	11.36	155	38.21	7.96	2.2	1.6	37	4	102	.21	7	0.6	1.0	35	LSW	
		22	1611	36.72	19	18.39	155	13.56	5.08	1.2	1.3	34	5	83	.11	3	0.4	1.0	31	SF2	
		23	751	5.90	19	43.60	156	6.55	37.42	2.4	1.9	45	8	279	.13	29	1.4	1.0	43	HUA	
		23	15	32.05	19	20.15	155	8.18	6.87	1.4	1.2	27	3	83	.09	5	0.4	0.8	26	SF4	
		23	1851	50.46	19	24.88	155	30.68	11.72	1.7	1.2	34	2	71	.10	7	0.4	0.6	32	KAO	
		24	050	3.36	19	19.24	155	11.55	5.18	1.3	1.0	28	2	101	.13	5	0.4	1.4	27	SF3	
		24	539	4.78	19	20.00	155	11.56	6.77	1.9	2.2	47	5	85	.13	5	0.4	0.8	44	SF3	
		24	1210	25.87	19	19.00	155	13.65	6.11	1.3	1.0	23	1	71	.10	4	0.5	1.2	23	SF2	
		24	13	9	37.13	19	25.73	155	28.89	9.77	1.5	1.2	25	2	71	.08	6	0.4	1.0	22	KAO
		25	220	23.91	19	14.01	155	31.40	7.64	2.1	1.6	37	3	67	.15	3	0.5	0.8	36	LSW	
		25	449	43.97	19	31.24	156	4.75	39.61	2.6	2.4	49	8	265	.11	17	1.0	0.9	45	KON	
		25	1422	44.70	19	19.91	155	8.84	6.13	1.9	2.2	45	4	76	.13	4	0.5	0.8	43	SF4	
		25	1452	41.65	19	42.45	155	2.14	0.00	2.3	2.4	37	1	186	.22	1	1.3	0.5	36	HIL B	
		25	1534	27.22	19	20.80	155	3.99	4.84	1.5	1.1	30	2	97	.15	2	0.6	1.3	30	SSF	
		25	19	6	28.48	19	22.32	155	28.53	11.02	3.1	3.4	53	8	37	.12	2	0.3	0.4	46	KAO
		25	20	1	29.48	19	24.43	155	16.10	14.80	2.0	2.0	41	3	71	.10	2	0.5	0.3	38	DEF
		26	711	57.55	19	20.13	155	9.13	5.88	1.5	1.1	26	1	75	.11	4	0.5	1.0	26	SF3	
		26	1151	41.42	19	25.58	155	15.70	10.76	1.3	1.1	14	2	219	.08	3	1.3	1.0	13	INT L	
		26	1319	41.65	19	22.16	155	4.10	8.04	1.9	1.8	37	3	88	.14	5	0.4	0.7	35	SF5	
		26	2028	6.55	19	54.13	155	34.53	20.18	2.6	2.1	49	7	133	.11	10	0.6	1.1	46	KEA	
		26	2342	58.93	19	22.85	155	20.82	9.92	1.8	1.1	32	3	45	.10	2	0.4	0.7	29	KAO	
		27	0	0	6.18	19	29.41	155	27.34	4.14	1.9	1.3	29	4	68	.12	5	0.3	1.9	26	KAO
		27	1517	0.21	19	17.98	155	15.37	4.29	1.5	1.8	43	5	118	.14	4	0.4	1.2	40	SSF	
		27	1635	2.15	19	21.16	155	2.11	6.87	2.0	2.1	38	5	163	.14	3	0.6	0.6	35	SF5	
		27	18	6	55.15	19	20.22	155	11.50	7.16	2.3	2.8	47	5	81	.13	4	0.4	0.6	42	SF3
		27	2055	43.60	20	5.56	155	33.33	35.74	2.3	1.7	38	10	274	.08	28	0.8	0.9	33	KEA	
		27	2134	29.21	19	25.41	155	21.02	8.90	1.7	1.3	45	6	32	.12	4	0.3	0.5	40	KAO	
		28	7	7	13.78	19	18.03	155	12.58	2.75	1.3	1.4	12	1	179	.10	9	0.8	3.2	12	SSF
		28	1221	46.66	19	18.43	155	13.07	7.64	1.8	2.2	43	6	93	.13	3	0.5	0.7	39	SF2	
		28	1431	8.32	19	13.04	155	27.17	7.70	2.0	1.7	39	5	115	.13	6	0.4	0.8	38	LSW	
		29	949	45.09	19	24.06	155	25.61	7.20	1.6	1.3	43	4	35	.12	2	0.3	0.8	40	KAO	
		29	1010	19.62	19	20.47	155	12.02	7.20	1.8	1.8	43	6	73	.10	4	0.4	0.6	39	SF3	
		29	2154	20.90	19	23.65	155	1.90	8.29	1.6	1.1	32	3	126	.14	5	0.6	0.6	29	SF5	
		30	430	12.73	19	20.67	155	30.01	11.08	1.7	1.4	25	1	97	.11	5	0.5	1.0	24	KAO	
		30	611	58.15	19	16.97	155	23.15	3.18	1.6	1.8	39	4	109	.13	5	0.3	1.2	39	SWR	
		30	912	19.70	19	19.95	155	9.74	7.11	1.5	1.1	22	3	84	.10	4	0.5	0.9	19	SF3	

71

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 38

YEAR	MON	ORIGIN TIME		LAT N		LON W		DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK		
		DA	HRMN	SEC	DEG	MIN	DEG													MIN	
1985	OCT	30	14	6	18.12	19	20.06	155	10.66	9.06	1.8	1.1	22	0	86	.05	4	0.6	1.0	22	SF3
		30	1847	54.03	19	31.81	155	42.46	9.58	2.3	1.3	35	2	64	.14	6	0.5	0.9	33	MLO	
		31	1148	4.26	20	3.05	155	32.27	38.63	2.5	1.9	43	9	197	.11	25	0.8	0.8	40	KEA	
		31	1456	56.26	19	22.01	155	26.30	10.30	1.6	1.1	26	1	42	.09	2	0.4	0.8	25	KAO	
		31	1535	14.74	19	21.84	155	28.67	10.18	2.1	2.1	40	2	37	.10	2	0.4	0.7	38	KAO	
		31	2050	23.71	19	28.43	155	46.13	7.22	2.7	2.5	44	8	71	.14	4	0.4	0.8	40	KON	
		31	2146	32.49	19	30.52	155	27.30	5.32	1.7	1.2	17	5	113	.08	3	0.4	1.0	13	MLO	
	NOV	1	1828	47.20	19	18.88	155	15.33	6.26	1.1	1.0	21	1	106	.11	4	0.6	1.3	20	SF1	
		2	922	33.81	19	19.88	155	7.23	6.38	1.2	1.1	21	2	107	.12	5	0.5	1.1	20	SF4	
		2	1050	37.34	19	13.77	155	47.80	1.27	2.6	1.8	44	7	145	.17	9	0.5	0.7	39	KON	
		2	1429	52.58	19	20.20	155	11.35	6.85	1.5	1.6	37	3	82	.13	4	0.5	0.7	35	SF3	
		2	1951	22.46	20	1.05	155	13.43	41.05	2.2	1.7	48	9	223	.12	19	0.9	1.0	44	KEA	
		3	136	6.89	19	44.92	155	22.96	14.71	1.8	1.4	32	6	125	.11	9	0.7	0.5	28	KEA	
		3	427	54.74	19	20.78	155	11.96	7.56	1.5	1.5	39	5	69	.12	4	0.5	0.6	34	SF3	
		3	1820	56.77	19	18.03	155	18.31	29.71	1.7	2.5	26	3	154	.13	1	1.1	1.6	26	DEP L	
		4	159	27.17	19	25.06	155	19.36	7.16	1.5	1.2	30	4	80	.11	3	0.4	0.9	27	KAO	
		4	7	3	9.10	19	21.98	155	2.30	7.85	2.1	2.1	36	2	135	.15	4	0.6	0.7	34	SF5
		4	1444	8.88	19	19.98	155	12.70	6.08	1.3	1.1	26	2	74	.11	5	0.5	1.1	24	SF2	
		4	1515	15.92	19	47.33	155	32.95	26.81	2.0	1.4	38	10	94	.11	10	0.6	1.0	37	KEA	
		4	2228	31.73	19	28.80	155	47.24	7.83	2.1	0.9	23	2	73	.13	4	0.5	1.0	22	KON	
		5	438	59.69	19	19.02	155	12.88	6.62	1.7	1.4	44	3	87	.13	4	0.4	0.7	42	SF2	
		5	613	48.87	19	49.14	155	12.53	14.29	1.8	1.3	36	4	184	.11	16	1.4	1.0	34	KEA	
		5	1057	28.35	19	21.68	155	12.90	3.17	1.1	1.1	17	2	84	.06	2	0.4	0.5	16	SER	
		6	057	46.92	19	27.33	155	28.42	10.42	1.8	1.3	29	5	53	.11	7	0.4	0.8	25	KAO	
		6	4	8	49.10	19	19.81	155	30.24	6.94	2.0	1.9	47	7	35	.14	7	0.3	0.9	45	KAO
		6	16	4	45.78	19	58.74	155	33.85	43.19	2.4	1.8	46	9	166	.11	17	0.8			

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 39

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NR	MIN NS	ERH DIS	ERZ KM	NO FM	REMK
1985	NOV	10	1040	55.88	19 20.20	155 11.66	7.52	2.5	2.9	47	5	80	13	5	0.4	0.6 44 SF3
		10	1058	21.10	19 21.71	155 19.84	28.88	2.0	1.5	43	5	47	13	4	0.6	0.9 36 DEP
		10	1317	13.99	19 21.97	155 1.14	6.96	2.0	1.9	40	5	169	17	5	0.8	0.7 35 SF5
		10	1839	18.42	19 22.26	155 24.32	12.93	1.9	1.2	37	3	41	12	4	0.4	0.6 34 KAO
		10	2119	32.43	19 19.89	155 11.27	8.43	1.5	1.2	25	2	88	09	5	0.5	0.9 25 SF3
		11	549	40.85	19 20.55	155 11.04	7.59	2.1	1.9	46	4	77	12	4	0.4	0.6 42 SF3
		11	1713	39.15	19 21.25	155 6.69	7.48	1.3	1.1	26	2	88	11	4	0.5	0.9 26 SF4
		11	1755	18.21	19 26.30	155 30.64	8.80	1.9	1.5	38	2	37	14	8	0.4	1.0 36 KAO
		11	2234	30.25	19 20.17	155 10.61	6.78	1.4	1.3	34	2	83	14	4	0.5	0.9 33 SF3
		12	5 9	51.01	19 25.08	155 15.89	14.51	1.5	1.4	43	5	73	11	2	0.5	0.3 39 DEP
		12	555	1.80	19 27.43	154 53.37	1.62	1.7	1.6	22	4	185	19	3	0.6	0.7 19 SLE
		12	814	45.03	19 19.60	155 10.85	7.24	1.7	1.3	30	3	96	10	5	0.5	0.9 28 SF3
		12	922	20.06	19 27.64	155 29.36	11.30	2.8	3.1	48	5	35	11	8	0.3	0.4 42 KAO
		12	940	54.82	19 24.75	155 30.57	7.88	1.8	1.3	21	0	85	10	7	0.5	1.7 14 KAO
		12	1639	24.27	19 22.17	155 12.30	4.65	1.1	1.2	14	2	114	12	2	0.6	1.0 13 SER
		12	2138	54.01	19 18.53	155 15.05	6.07	1.0	1.0	22	3	110	09	4	0.5	1.1 22 SF1
		12	2319	42.04	19 22.76	155 26.60	10.86	1.3	1.2	24	1	52	10	2	0.5	1.0 23 KAO
		13	1135	37.17	19 27.02	155 29.41	9.36	1.8	1.3	30	1	46	10	7	0.4	1.2 29 KAO
		13	16 2	3.14	19 17.48	155 30.67	5.97	1.8	1.3	33	3	81	21	5	0.5	1.5 32 LSW
		13	20 1	55.34	19 24.38	155 17.04	19.28	3.0	3.3	58	9	36	13	1	0.4	0.6 49 DEP F
		13	2120	30.12	19 26.45	155 28.95	10.57	1.7	1.3	33	3	41	11	7	0.4	0.7 29 KAO
		13	2134	33.96	19 24.10	155 16.14	3.32	1.2	1.0	14	4	116	07	1	0.4	0.4 12 SEC
		13	2141	38.07	19 23.65	155 15.56	2.56	1.7	1.9	26	6	82	09	2	0.3	0.3 22 SEC
		13	2241	32.20	19 23.96	155 15.67	3.41	1.1	1.4	16	5	111	07	2	0.3	0.4 11 SEC
		14	346	42.54	19 25.38	155 21.11	8.62	2.1	1.8	50	6	32	13	4	0.3	0.5 44 KAO
		14	4 0	24.23	19 23.88	155 15.89	2.78	1.3	1.5	20	6	81	11	1	0.3	0.3 16 SEC
		14	425	18.99	19 23.83	155 16.05	3.28	2.2	2.8	32	5	67	09	1	0.2	0.2 29 SEC
		14	519	6.15	19 23.05	155 27.49	10.50	1.5	1.1	29	1	56	10	1	0.4	0.8 26 KAO
		14	13 5	56.77	19 37.56	156 8.98	37.17	2.9	2.8	52	10	250	12	29	0.9	0.8 49 KON
		14	1659	37.28	19 38.80	155 55.60	15.11	2.5	2.2	42	6	199	12	10	0.9	0.5 41 KON
		14	20 0	50.00	19 23.29	154 58.58	5.75	1.7	1.2	25	1	183	13	3	0.9	1.0 24 LER
		15	132	26.22	19 19.02	155 12.93	6.48	1.3	1.3	29	3	86	13	4	0.5	1.1 27 SF2
		15	415	1.21	19 23.71	155 19.15	31.39	2.3	2.4	46	4	35	13	1	0.6	0.9 42 DML
		15	1324	12.19	19 25.82	154 56.31	5.31	1.7	1.2	22	1	175	14	4	0.9	1.1 21 LER
		15	2311	41.93	19 18.54	155 12.82	6.95	1.2	1.1	25	2	98	09	3	0.4	1.0 24 SF2
		16	415	58.08	19 19.16	155 11.03	6.70	1.6	1.5	24	2	107	11	6	0.6	0.9 22 SF3
		16	10 3	43.46	19 23.75	154 50.20	40.23	2.5	2.2	45	7	254	12	12	1.2	0.8 42 LER
		17	018	46.31	19 28.80	155 26.45	7.97	2.6	2.2	46	6	48	13	6	0.5	0.7 40 KAO
		17	228	39.19	19 25.63	155 28.37	8.10	1.8	1.1	29	1	58	10	6	0.4	1.0 28 KAO
		17	1235	2.70	19 22.46	155 29.81	9.10	2.4	2.8	42	4	34	11	4	0.3	0.6 38 KAO
		17	1646	43.89	19 21.06	155 12.85	7.44	1.8	2.0	33	4	61	13	3	0.5	0.7 30 SF2
		17	20 2	10.49	19 24.86	155 19.52	6.39	1.5	1.1	24	5	65	08	2	0.4	0.8 20 KAO
		18	110	28.11	19 19.37	155 11.65	5.38	1.4	1.1	21	1	97	11	5	0.5	1.4 21 SF3
		18	417	7.20	19 12.58	155 37.79	8.19	3.1	3.2	49	8	96	18	5	0.6	0.7 45 LSW
		18	6 2	23.46	19 19.31	155 13.67	6.49	1.6	1.5	33	1	69	13	4	0.5	0.9 31 SF2

72

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 40

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NR	MIN NS	ERH DIS	ERZ KM	NO FM	REMK
1985	NOV	18	837	34.43	19 19.40	155 14.76	7.40	1.6	1.5	39	3	80	12	5	0.4	0.7 38 SF1
		18	935	42.42	19 21.69	155 2.13	7.95	2.0	1.6	37	4	152	17	4	0.7	0.6 34 SF5
		18	10 1	45.66	19 21.94	155 28.95	10.03	2.0	1.6	46	3	38	10	3	0.3	0.5 43 KAO
		18	1658	19.32	19 19.99	155 7.00	5.45	1.4	1.0	26	1	109	13	5	0.6	1.5 25 SF4
		18	2215	57.47	19 20.61	155 11.31	8.38	1.9	1.6	39	2	75	10	4	0.4	0.6 37 SF3
		19	6 8	48.00	19 17.77	155 21.67	7.93	1.5	1.0	33	2	118	11	5	0.4	0.8 31 SWR
		19	855	14.82	19 27.47	155 51.11	5.91	2.3	1.6	30	6	121	12	8	0.5	1.0 28 KON
		19	1241	1.00	19 25.59	155 19.87	7.48	1.7	1.8	32	4	46	12	4	0.4	0.8 28 KAO
		19	1355	54.31	19 44.00	155 57.08	28.36	2.4	1.6	44	7	210	13	13	0.8	1.0 42 HUA
		19	16 4	54.68	19 20.54	155 11.38	8.18	2.7	3.0	51	8	76	12	4	0.3	0.5 44 SF3
		20	139	27.14	19 28.39	154 54.09	1.92	1.8	1.7	24	3	161	13	3	0.7	0.5 23 SLE
		20	8 9	5.46	19 22.93	155 18.21	10.78	1.3	1.3	9	2	188	10	4	1.5	2.2 8 INT L
		20	942	45.79	19 17.90	154 59.39	38.40	2.3	1.8	42	3	219	11	7	1.2	1.2 41 LER
		20	1040	8.88	19 23.32	155 16.44	8.81	1.1	1.3	19	4	69	22	1	0.8	1.3 17 INT L
		20	14 7	4.15	19 24.35	155 17.48	11.36	1.2	1.4	17	3	45	15	1	1.0	1.1 15 INT L
		20	1810	22.59	19 24.09	155 17.08	12.21	1.3	1.2	16	4	78	08	1	0.8	0.9 14 INT L
		20	1812	43.51	19 23.69	155 17.15	7.79	1.0	1.2	19	4	63	11	1	0.5	0.7 18 INT L
		20	1816	17.51	19 24.97	155 17.52	9.09	1.1	1.5	18	3	102	11	1	0.7	0.9 16 INT L
		20	1818	40.29	19 24.53	155 17.68	11.51	1.2	1.2	18	4	107	10	1	0.9	0.8 16 INT L
		20	1951	48.59	19 23.56	155 27.24	9.78	1.9	1.9	45	4	54	11	2	0.3	0.5 40 KAO
		20	2123	4.27	19 21.58	155 3.88	8.27	1.6	1.7	32	2	95	15	4	0.6	0.8 31 SF5
		20	2339	59.38	19 46.71	155 40.23	12.13	2.3	2.2	29	8	126	09	9	0.6	0.4 23 KEA
		21	3 3	4.95	19 19.58	155 7.30	5.34	1.0	1.1	23	2	111	12	4	0.5	1.7 23 SF4
		21	9 2	7.44	19 18.58	155 27.99	9.38	1.4	1.3	30	2	42	14	7	0.4	1.0 28 LSW
		21	1227	46.76	19 25.93	155 29.57	10.62	2.1	1.8	41	3	40	11	7	0.4	0.7 36 KAO
		21	1426	45.64	19 22.63	155 26.68	10.43	1.9	1.7	38	1	37	13	2	0.4	0.7 37 KAO
		22	156	11.63	19 24.89	155 18.18	12.35	1.2	1.1	17	4	87	13	1	0.8	1.0 14 INT L
		22	248	41.33	19 24.95	155 17.42	9.99	1.1	1.4	21	4	90	16	1	0.8	0.9 19 INT L
		22	545	16.45	19 24.94	155 16.98	10.14	1.2	1.2	13	2	145	09	0	0.8	0.8 12 INT L
		22	629	22.32	19 12.04	155 41.88	2.07	2.1	1.4	29	4	121	23	10	0.7	1.8 27 LSW
		22	943	16.58	19 24.86	155 17.19	10.22	1.3	1.4	20	4	113	14	0	0.7	0.9 17 INT L
		22	1038	10.81	19 24.91	155 16.86	11.01	1.6	1.5	22	6	146	13	0	0.8	0.7 18 INT L
		22	1133	24.59	19 18.59	155 14.84	7.62	1.8	1.2	36	1	95	10	4	0.5	0.8 35 SF1
		22	13 0	52.02	19 24.84	155 17.05	11.16	1.3	1.3	22	5	82	10	0	0.6	0.8 18 INT L
		22	1335	28.69	19 18.73	155 13.57	7.81	2.0	2.1	47	5	72	14	3	0.5	0.6 43 SF2
		22	1337	51.93	19 24.43	155 18.52	8.86	1.1	1.3	18	5	128				

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 41

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH DIS	ERZ KM	NO FM	REMK
1985	NOV	23	853	29.11	19 16.61	155 27.83	8.87	2.9	3.2	54	8	59	15	5	0.3	0.6 48 LSW F
		23	1124	45.41	19 20.44	155 12.02	7.52	2.0	2.0	41	5	74	13	4	0.4	0.6 38 SF3
		23	1610	7.60	19 21.58	155 4.18	7.53	2.0	2.2	37	6	89	12	4	0.4	0.6 33 SF5
		23	1915	4.17	19 19.60	155 11.59	6.44	1.5	1.2	29	2	92	12	5	0.5	1.0 28 SF3
		23	20	21.64	19 21.39	155 21.69	9.91	1.3	1.1	27	1	59	11	4	0.6	1.0 25 SWR
		23	2035	10.65	19 21.48	155 21.76	9.11	1.2	1.0	27	2	58	10	4	0.5	0.9 26 SWR
		24	0	7 10.24	19 27.91	155 24.33	3.22	1.6	1.3	23	4	89	11	4	0.3	0.8 20 KAO
		24	958	7.54	19 20.41	155 13.41	6.92	1.2	1.2	27	1	81	12	4	0.6	1.0 25 SF2
		24	1516	20.53	19 28.88	154 53.84	7.57	2.4	3.0	40	4	187	13	3	0.9	0.5 38 LER
		24	1630	27.78	19 56.81	155 45.02	7.20	2.9	3.1	29	3	154	14	14	0.6	0.6 26 KOH
		24	17	1 54.80	19 16.30	155 30.32	6.30	1.7	1.1	26	3	88	17	2	0.4	1.2 25 LSW
		24	21	4 21.68	19 24.66	155 16.67	1.56	1.2	1.7	21	5	138	12	1	0.3	0.2 18 SNC
		25	611	26.07	19 23.27	155 20.55	10.98	1.4	1.1	19	2	53	06	2	0.6	1.2 18 KAO
		25	1048	40.56	19 24.81	155 17.78	8.22	1.1	1.7	21	5	61	16	1	0.6	0.7 17 INT L
		26	0	4 17.72	19 19.85	155 7.03	6.79	1.3	1.2	27	1	112	10	5	0.5	1.0 26 SF4
		26	053	11.35	19 23.80	155 17.29	8.00	1.5	1.8	23	3	55	16	1	0.6	0.8 20 INT L
		26	2	1 18.05	19 23.81	155 16.92	13.16	1.6	1.6	22	5	73	12	1	0.6	0.9 19 DEP L
		26	257	42.52	19 19.63	155 7.85	7.15	1.6	1.7	33	2	97	10	4	0.5	0.9 32 SF4
		26	314	5.18	19 23.78	155 16.87	9.06	1.2	1.7	17	1	71	13	1	0.6	1.2 16 INT L
		26	11	2 36.21	19 24.27	155 17.36	9.60	1.2	1.7	24	6	53	14	1	0.6	0.7 20 INT L
		26	1732	7.03	19 19.24	155 13.31	7.75	1.5	1.6	37	3	74	12	4	0.4	0.7 38 SF2
		26	2058	20.25	19 22.21	155 29.86	10.01	1.5	1.1	29	1	44	07	4	0.4	0.8 28 KAO
		26	2352	36.61	19 22.86	155 25.46	10.37	1.7	1.3	29	1	50	09	4	0.4	0.9 28 KAO
		27	443	52.44	19 31.99	155 35.88	9.89	2.7	2.2	43	5	88	14	2	0.4	0.4 40 HLO
		27	721	21.43	19 19.63	155 7.30	7.26	2.1	2.4	42	6	111	10	4	0.4	0.7 37 SF4
		27	1428	16.50	19 30.78	155 56.65	21.41	2.5	2.7	39	7	225	13	4	1.0	1.0 35 KON
		27	17	4 55.26	19 24.08	155 16.00	3.08	1.2	1.0	15	4	117	09	1	0.4	0.4 13 SEC
		27	23	4 49.50	19 27.87	155 51.94	8.08	2.6	2.1	33	3	114	17	6	0.6	0.7 31 KON
		28	448	52.98	19 22.41	155 29.59	9.24	2.2	2.1	45	3	33	11	3	0.3	0.6 41 KAO
		28	658	1.71	19 25.50	155 29.08	9.48	2.0	1.8	35	3	47	10	6	0.3	0.7 30 KAO
		28	829	47.58	19 18.44	155 16.70	9.16	3.0	3.2	51	8	116	12	3	0.4	0.5 45 SF1
		28	840	59.46	19 21.58	155 25.79	10.50	1.7	1.3	28	3	48	11	4	0.5	0.9 28 KAO
		28	1127	10.30	19 18.85	155 13.77	7.22	1.5	1.6	38	4	76	13	3	0.5	0.8 38 SF2
		28	1141	48.53	19 14.54	155 27.04	8.74	1.9	2.0	42	7	95	13	5	0.4	0.7 40 LSW
		28	1716	0.46	19 25.95	155 26.90	2.19	1.6	1.3	24	1	64	11	3	0.3	0.8 23 KAO
		28	2311	23.06	19 18.59	155 13.46	7.15	2.1	2.2	47	4	78	12	3	0.4	0.7 44 SF2
		29	558	54.02	19 19.17	155 13.12	4.90	1.5	1.8	39	2	79	13	4	0.4	1.5 38 SSF
		29	1018	30.63	19 21.77	155 7.08	7.50	1.2	1.1	23	3	76	10	3	0.4	0.8 22 SF4
		29	11	8 38.48	19 20.59	155 8.47	7.61	0.9	1.3	17	2	96	10	4	0.7	1.0 17 SF4
		30	1059	25.26	19 18.88	155 16.06	7.04	1.3	1.1	29	4	113	11	3	0.4	0.8 26 SF1
		30	14	6 51.29	19 24.49	155 29.82	8.63	1.9	2.0	44	4	33	11	5	0.3	0.9 41 KAO
		30	1529	16.23	19 19.60	155 12.16	6.42	1.5	1.5	35	0	87	11	5	0.5	0.9 35 SF3
		30	1728	32.47	18 59.11	155 28.70	41.28	2.2	1.6	35	3	220	07	19	0.9	1.3 34 DLS
		30	2345	19.06	19 18.49	155 13.11	4.99	1.4	1.3	32	3	90	11	3	0.4	1.0 29 SSF
DEC		1	442	18.67	19 24.55	155 19.46	5.36	1.7	1.9	19	2	98	08	4	0.4	1.2 18 KAO

73

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 42

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH DIS	ERZ KM	NO FM	REMK
1985	DEC	1	448	37.89	19 16.85	155 22.37	8.08	1.5	1.3	21	2	128	12	6	0.6	1.3 16 SWR
		1	1242	22.24	19 23.93	155 15.77	2.87	1.2	1.2	17	6	110	09	1	0.3	0.4 13 SEC
		1	1951	59.83	19 17.09	155 13.16	6.73	2.1	2.2	42	5	156	12	1	0.5	0.7 39 SF2
		2	241	40.07	19 19.40	155 13.37	6.35	2.0	2.1	48	7	71	13	4	0.4	0.6 42 SF2
		2	2237	10.49	19 21.59	155 19.84	30.69	2.2	2.1	49	6	47	12	4	0.6	0.8 45 DEP
		3	213	49.84	19 19.55	155 11.91	8.56	1.7	1.8	40	5	91	14	5	0.5	0.8 37 SF3
		3	945	13.46	19 19.49	155 8.41	8.14	1.4	1.3	26	1	132	11	4	0.6	1.2 26 SF4
		3	1515	44.84	19 21.39	155 30.10	10.56	1.6	1.5	30	1	45	08	5	0.4	1.0 29 KAO
		3	2347	29.04	19 21.01	155 6.18	7.71	2.6	3.1	45	4	146	12	5	0.4	0.6 42 SF4
		4	022	38.45	19 21.73	155 6.55	7.11	1.4	1.5	24	0	132	13	4	0.7	1.1 24 SF4
		4	1135	17.81	19 22.27	155 26.52	9.78	2.4	2.6	48	5	40	11	2	0.3	0.5 43 KAO
		4	1413	19.18	19 27.07	155 29.94	8.57	2.0	1.4	35	3	46	10	9	0.4	1.0 30 KAO
		4	2013	41.39	19 20.33	155 11.57	8.38	1.8	1.6	39	2	78	10	4	0.4	0.6 38 SF3
		4	2039	39.46	19 17.00	155 13.98	7.50	1.5	1.5	34	3	177	10	1	0.6	0.7 29 SF2
		5	226	31.91	19 12.31	155 23.49	38.81	1.7		27	1	225	12	4	1.6	2.3 27 DEP L
		5	237	42.99	19 20.84	155 12.85	8.16	1.9	1.9	42	3	63	12	3	0.4	0.5 38 SF2
		5	339	34.82	19 19.92	155 10.76	7.66	1.3	1.1	24	0	88	08	4	0.6	1.1 24 SF3
		5	8	2 48.85	19 20.26	155 10.83	8.31	2.4	3.0	43	3	82	11	4	0.4	0.8 40 SF3
		5	2112	12.29	19 26.41	155 28.11	8.26	1.6	1.1	35	3	56	11	6	0.4	1.0 31 KAO
		6	014	50.89	19 17.04	155 22.20	3.16	0.9	1.0	24	4	124	12	6	0.4	1.4 22 SWR
		6	256	30.99	19 22.03	155 30.38	9.40	1.6	1.2	37	2	47	10	5	0.4	0.7 34 KAO
		6	1658	36.05	19 24.29	155 16.36	1.47	0.9	1.0	12	3	122	06	1	0.2	0.3 10 SEC
		6	1829	6.83	18 57.13	155 34.77	40.86	2.1	1.5	37	6	246	08	10	1.4	1.4 36 DLS
		6	1850	29.05	19 29.29	155 53.46	8.29	2.2	1.4	33	6	120	17	3	0.7	0.5 30 KON
		6	2239	6.51	19 18.75	155 13.42	4.68	1.3	1.1	33	4	77	12	3	0.4	1.4 31 SSF
		7	053	14.61	19 22.79	155 20.71	8.61	1.4	0.9	31	2	46	12	2	0.4	0.7 27 KAO
		7	154	21.60	19 21.56	155 2.06	6.64	1.4	1.3	35	2	155	15	3	0.7	0.8 34 SF5
		7	3	8 8.46	19 19.55	155 10.38	6.89	1.4	1.3	35	4	97	12	5	0.5	0.8 33 SF3
		7	326	4.46	19 20.03	155 12.06	6.19	1.3	1.1	33	3	80	13	5	0.5	0.9 30 SF3
		7	1938	27.09	19 19.76	155 12.05	6.94	1.3	1.3	38	3	86	12	6	0.4	0.7 35 SF5
		8	130	15.17	19 27.44	155 28.38	9.98	1.5	1.1	24	2	55	11	7	0.5	1.3 22 KAO
		8	451	14.94	19 22.33	155 2.94	5.61	1.6	1.2	29	1	125	17	5	0.6	1.7 27 SF5
		8	10	5 53.81	19 26.84	155 45.35	3.37	2.1	1.1	35	7	73	16	7	0.5	1.8 35 KON
		8	1049	28.75	19 35.51	155 4.46	12.45	2.1	2.2	45	8	89	14	10	0.4	0.6 39 HIL
		8	1937	10.57	19 27.64	155 29.77	8.95	2.1	1.7	44	4	37	13	8	0.4	0.9 39 KAO
		8	1956	57.65	19 18.17	155 12.98	7.31	1.4	1.5	36	1	103	11	2	0.5	0.7 35 SF2
		9	342</													

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 43

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	REMK		
1985	DEC	10	1828	31.61	19 18.85	155 30.48	7.95	2.0	1.7	39	3	39	.13	7	0.4	1.0	37	LSW	
		10	2228	33.12	19 47.34	155 35.96	14.80	2.0	1.8	35	6	95	.10	10	0.4	0.5	34	KEA	
		11	332	53.30	19 12.91	155 27.76	40.86	2.1	2.8	39	9	108	.12	8	0.8	1.2	38	DLS L	
		11	342	50.26	19 23.92	155 15.69	3.11	1.5	2.1	28	6	78	.09	2	0.3	0.3	24	SEC	
		11	345	2.79	19 23.95	155 15.80	3.38	1.3	1.6	16	5	111	.09	1	0.3	0.4	13	SEC	
		11	457	17.59	19 21.93	155 2.46	5.21	1.4	1.1	24	2	146	.23	4	1.1	2.6	23	SF5	
		11	5	9.21	19 17.88	155 21.41	8.29	1.2	1.1	28	2	119	.11	5	0.5	0.8	27	SWR	
		12	251	26.97	19 25.95	155 21.42	9.27	1.7	1.1	34	5	75	.11	3	0.4	0.6	30	KAO	
		12	748	33.33	19 19.48	155 11.67	5.63	1.2	1.1	27	3	94	.13	6	0.5	1.3	26	SF3	
		12	9	22.87	20 34.68	155 45.31	25.05	4.7	4.9	55	8	208	.11	50	0.9	3.0	49	DIS F	
		12	922	18.54	19 19.53	155 11.98	7.19	1.7	1.8	35	5	91	.10	5	0.4	0.8	32	SF3	
		12	1118	39.33	19 30.96	155 54.45	11.80	4.0	4.3	57	13	171	.13	3	0.6	0.3	52	KON F	
		12	1154	11.09	19 28.23	155 26.78	6.10	2.0	1.3	39	4	51	.13	6	0.4	1.1	34	KAO	
		12	1211	52.19	19 11.60	155 38.75	8.12	2.1	1.7	31	5	105	.19	7	0.6	1.2	30	LSW	
		12	1330	41.20	19 22.14	155 26.71	9.75	1.6	1.1	30	2	44	.13	2	0.4	0.7	29	KAO	
		12	1331	5.17	19 22.83	155 2.35	6.27	1.7	1.7	27	3	134	.13	5	0.5	1.1	26	SF5	
		12	2040	3.80	19 47.05	155 56.38	8.95	2.9	1.9	25	5	258	.12	15	1.3	0.8	25	HUA	
		12	2217	44.48	19 21.81	155 2.67	8.95	3.4	3.9	52	11	134	.12	4	0.5	0.3	44	SF5 F	
		12	23	1.28	19 22.68	155 25.28	10.13	1.8	1.9	39	4	41	.12	4	0.4	0.6	34	KAO	
		13	0	7	6.21	19 20.22	6.33	1.4	1.3	30	3	69	.12	4	0.4	0.7	29	SF2	
		13	429	10.41	19 22.26	155 4.81	8.79	3.2	3.4	53	9	80	.11	4	0.4	0.3	47	SF5	
		13	753	18.79	19 19.42	155 11.30	5.67	1.6	1.6	29	3	98	.11	6	0.5	1.1	27	SF3	
		13	1320	57.37	19 19.67	155 7.76	9.34	4.0	4.1	56	10	99	.11	4	0.4	0.3	48	SF4 F	
		13	1328	13.88	19 19.39	155 8.32	8.40	1.3	0.9	16	2	86	.08	4	0.6	1.3	15	SF4	
		13	1343	13.89	19 23.96	155 15.69	2.95		1.2	16	5	112	.09	2	0.3	0.3	14	SEC	
		13	1453	42.80	19 20.46	155 8.51	6.58	1.2	1.1	23	2	75	.11	4	0.5	1.0	22	SF4	
		13	2132	53.55	19 19.58	155 8.18	7.08	2.1	2.3	40	3	88	.11	4	0.5	0.7	37	SF4	
		14	017	56.05	19 22.40	155 4.58	6.97	1.7	1.8	37	3	85	.14	4	0.4	0.9	38	SF5	
		14	633	19.63	19 20.80	155 28.63	10.16	1.4	1.2	32	3	48	.14	4	0.4	0.9	31	KAO	
		14	750	40.27	19 19.33	155 13.64	7.55	1.3	1.1	29	3	69	.10	4	0.4	0.8	27	SF2	
		14	10	8	1.07	19 22.60	155 20.86	10.28	2.2	2.1	47	5	45	.11	3	0.3	0.5	43	KAO
		14	17	4	20.67	19 23.37	155 21.23	9.69	1.7	2.0	39	5	52	.11	3	0.3	0.5	34	KAO
		14	1726	32.46	19 23.87	155 16.15	2.62	1.4	1.7	23	6	101	.09	1	0.3	0.2	18	SEC	
		14	1949	34.86	19 16.28	155 23.08	7.45	1.7	2.1	25	3	120	.11	4	0.5	1.2	22	SWR	
		15	449	29.51	19 19.86	155 12.17	6.79	1.4	1.6	33	4	82	.10	5	0.5	0.8	30	SF3	
		15	928	47.81	19 20.43	155 11.60	7.89	2.6	2.9	49	5	77	.14	4	0.4	0.6	44	SF3	
		15	1829	54.44	19 16.55	155 28.71	8.19	2.0	2.3	38	4	77	.17	4	0.4	0.9	34	LSW	
		15	1859	18.55	19 23.86	155 26.95	10.20	1.9	1.8	88	2	27	.13	3	0.4	0.6	36	KAO	
		16	050	26.16	19 24.05	155 15.83	3.81	0.9	1.4	15	5	116	.07	1	0.3	0.4	12	SEC	
		16	153	26.09	19 23.85	155 15.68	3.23	1.3	1.9	23	5	84	.09	2	0.3	0.3	20	SEC	
		16	243	52.24	19 32.93	155 36.68	8.07	2.2	1.9	34	5	127	.12	7	0.5	0.8	32	HLO	
		16	313	35.85	19 20.19	155 10.72	8.76	1.4	1.7	22	2	83	.04	4	0.5	0.8	20	SF3	
		16	1313	35.40	19 27.56	155 29.18	9.79	2.8	2.9	39	2	55	.12	9	0.4	0.7	23	KAO	
		16	2158	7.44	19 25.12	155 19.74	6.01	1.9	1.9	28	4	63	.12	3	0.4	1.0	24	KAO	
		17	345	53.84	19 25.70	155 30.58	9.49	2.2	2.4	40	4	36	.10	8	0.3	0.7	36	KAO	

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 44

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ NO KM FM	REMK			
1985	DEC	17	347	16.97	19 28.57	154 53.23	1.11	2.6	2.8	39	6	167	.22	4	0.6	0.8	36	SLE		
		17	1046	48.24	19 23.62	155 20.45	9.65	1.7	1.5	40	13	58	.10	1	0.3	0.4	34	KAO		
		17	1221	39.40	19 20.05	155 11.74	6.35	1.2	1.3	18	1	82	.07	5	0.5	1.2	18	SF3		
		17	1724	12.73	19 19.43	155 13.13	6.44	1.3	1.8	43	5	75	.14	4	0.4	0.8	42	SF2		
		18	313	39.42	19 19.99	155 11.14	8.04	1.3	1.1	28	6	87	.07	4	0.4	0.6	26	SF3		
		18	341	6.90	19 23.68	155 17.01	3.10	1.1	1.2	22	6	60	.13	1	0.4	0.2	19	SSC		
		18	411	47.90	19 19.09	155 12.10	4.67	1.3	1.4	33	2	100	.13	5	0.4	1.7	32	SSF		
		18	457	37.13	19 9.19	155 40.45	6.07	2.1	1.9	34	4	125	.20	12	0.6	2.0	32	LSW		
		18	8	1	51.72	19 17.12	155 27.40	6.82	1.7	1.3	33	2	53	.18	6	0.5	1.6	32	LSW	
		18	1548	21.20	19 19.65	155 8.12	4.85	1.4	1.0	21	0	157	.10	5	0.8	2.5	16	SSF		
		18	1943	12.89	19 26.74	155 30.07	3.32	1.6	0.8	25	1	57	.14	9	0.4	4.3	18	KAO		
		19	7	4	9.12	19 19.10	155 13.42	5.14	1.5	0.6	23	0	74	.12	4	0.5	1.4	18	SF2	
		19	8	4	27.07	19 19.25	155 2.72	3.25		0.9	16	0	210	.12	10	1.4	35	5	13	SSF
		19	857	8.99	19 27.38	155 25.73	5.30	1.2	1.3	29	3	62	.10	4	0.4	1.5	27	KAO		
		19	935	16.21	19 27.33	155 25.64	5.96	1.1	1.3	20	2	62	.13	4	0.5	1.5	18	KAO		
		19	1320	46.26	19 21.61	155 29.73	9.53	1.5	1.5	30	1	43	.08	4	0.4	0.8	28	KAO		
		19	1924	49.55	19 20.47	155 11.46	7.73	1.6	1.9	29	1	76	.10	4	0.5	0.9	28	SF3		
		19	2321	59.05	19 18.42	155 13.21	5.76	1.2	1.1	20	0	137	.09	3	0.8	1.7	20	SF2		
		20	314	36.55	19 20.61	155 10.32	6.51	1.4	1.3	27	2	75	.09	3	0.5	0.8	26	SF3		
		20	449	8.91	19 26.64	155 28.71	10.15	1.7	1.5	34	3	42	.10	7	0.4	0.8	30	KAO		
		20	5	4	13.72	19 20.39	155 11.71	9.13	1.5	1.1	17	0	77	.07	5	0.5	1.0	17	SF3	
		20	1717	43.51	19 27.36	155 25.49	5.65	1.9	1.8	40	12	47	.14	4	0.3	1.2	36	KAO		
		20	2131	45.60	19 23.38	155 11.24	0.54	1.4	1.7	15	5	156	.27	3	0.8	0.5	13	SER		
		21	242	28.39	19 21.53	155 30.23	8.92	2.4	2.3	52	13	48	.11	5	0.3	0.5	48	KAO		
		21	537	8.75	19 19.78	155 7.94	7.37	2.1	2.2	45	8	93	.11	5	0.4	0.7	41	SF4		
		21	910	13.73	19 22.01	155 28.50	9.38	2.6	2.9	55	9	38	.13	2	0.3	0.5	48	KAO		
		21	1033	30.40	19 20.39	155 12.98	6.83	1.2	1.2	33	4	66	.11	4	0.4	0.9	31	SF2		
		21	11	9	29.94	19 20.59	155 11.46	7.47	2.2	2.4	49	7	75	.13	4	0.4	0.5	44	SF3	
		21	1559	51.08	19 23.76	154 58.18	6.34	1.8	1.4	23	1	181	.15	3	1.0	1.0	20	LER		
		21	1753	32.40	19 8.90	155 30.54	44.53	2.5			50	11	146	.12	5	0.8	1.0	42	DLS T	
		21	1754	5.02	19 10.23	155 28.89	35.87				35	3	98	.14	2	0.9	1.4	34	DLS T	
		21	1925	19.81	19 3.09	155 31.52	34.89													

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 45

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ KM	NO FM	REMK
1985	DEC	24	354	19.42	19 19.37	155 12.01	6.01	1.3	1.1	22	3	94	.10	5	0.5	1.5 22 SF3
		24	558	14.10	19 50.54	155 32.11	12.72	2.1	1.6	21	6	156	.09	13	0.6	0.5 21 KEA
		24	14 0	14.09	19 20.94	155 8.04	8.04	2.8	3.5	53	11	77	.15	4	0.4	0.5 46 SF4
		24	16 6	1.45	19 19.74	155 11.61	9.01	1.3	1.1	19	3	89	.07	5	0.6	1.2 19 SF3
		24	2338	26.81	19 14.07	155 30.74	9.64	3.3	3.5	48	8	129	.16	2	0.6	0.6 47 LSW F
		25	042	37.23	19 19.73	155 11.14	9.83	1.4	1.1	19	2	92	.07	5	0.7	1.1 19 SF3
		25	316	23.46	19 11.90	155 27.38	6.55	2.0	1.8	38	6	118	.19	5	0.6	1.2 37 LSW
		25	510	25.28	19 21.27	155 0.50	6.28	2.0	2.0	34	4	193	.14	5	0.7	0.9 32 SF5
		25	635	9.75	19 23.35	155 2.64	7.65	2.2	2.4	41	6	121	.13	4	0.5	0.5 38 SF5
		25	11 4	45.48	19 21.04	155 13.00	8.18	1.3	1.5	26	3	67	.10	3	0.4	0.8 25 SF2
		25	1125	6.00	19 48.11	155 45.48	14.85	2.5	2.2	38	11	151	.27	33	1.0	2.7 35 HUA
		25	1153	43.43	19 19.63	155 9.96	8.36	1.1	1.1	22	3	92	.04	5	0.5	1.0 21 SF3
		25	1422	31.83	19 24.57	155 19.87	6.29	1.5	1.3	30	8	70	.09	2	0.3	0.8 26 KAO
		25	1716	26.70	19 34.94	156 4.79	44.34	2.4	2.4	41	9	239	.10	20	1.0	1.3 41 KOM
		25	2255	33.09	19 24.89	155 19.55	6.34	1.4	1.6	28	5	95	.10	2	0.4	0.8 24 KAO
		26	628	29.45	19 10.62	155 33.35	8.90	2.9	3.1	41	2	134	.13	10	0.5	0.7 40 LSW
		26	949	33.66	19 19.46	155 11.07	9.14	1.4	1.5	24	3	99	.06	5	0.6	1.0 22 SF3
		26	954	17.61	19 20.61	155 12.93	8.72	2.5	2.8	52	9	64	.13	4	0.4	0.4 45 SF2
		27	042	39.38	19 18.23	155 30.00	6.68	1.6	1.3	26	3	61	.19	6	0.5	1.5 25 LSW
		27	328	0.67	19 19.84	155 8.97	6.42	1.4	1.1	29	4	78	.12	4	0.5	0.9 28 SF4
		27	1453	40.72	19 19.00	155 13.70	6.84	1.4	1.3	27	4	72	.07	4	0.4	0.9 24 SF2
		27	1549	33.85	19 1.82	155 22.14	36.08	2.1	1.8	39	3	225	.09	17	1.0	1.1 38 LOI
		27	16 9	11.46	19 29.58	155 27.22	13.19	1.9	1.4	35	5	72	.09	5	0.4	0.5 30 DML
		28	1035	0.47	19 20.56	155 11.15	7.62	1.8	1.8	37	5	78	.11	4	0.4	0.6 33 SF3
		28	1226	6.25	19 17.76	155 21.00	7.69	1.5	1.6	27	3	125	.10	4	0.4	0.8 25 SWR
		28	1310	4.98	19 28.18	154 52.52	4.45	1.9	1.4	22	2	185	.14	5	0.9	1.9 22 SLE
		28	1657	52.66	20 0.47	155 48.87	8.24	2.3	2.1	20	3	188	.14	14	0.9	0.7 20 KOH
		28	2033	16.72	19 26.12	155 24.36	9.06	1.8	1.5	37	3	58	.12	2	0.3	0.7 33 KAO
		29	947	40.93	19 17.28	155 13.05	6.72	1.7	1.9	30	3	150	.10	1	0.5	0.8 29 SF2
		29	11 7	49.15	19 17.75	155 13.18	5.08	1.3	1.3	22	2	107	.09	1	0.6	0.9 22 SF2
		29	2012	11.26	19 24.00	155 26.64	9.86	1.6	1.1	24	1	40	.10	3	0.4	0.9 23 KAO
		29	2135	5.06	19 20.61	155 19.58	2.06	0.9	1.0	17	1	57	.11	4	0.3	1.0 17 SWR
		30	036	4.20	19 23.55	155 14.99	3.03	1.4	1.9	21	7	95	.10	2	0.3	0.3 17 SEC
		30	158	6.67	19 18.14	155 13.37	6.60	1.8	1.9	39	4	87	.11	2	0.4	0.8 36 SF2
		30	852	36.33	19 18.34	155 30.14	8.52	1.8	2.0	35	3	79	.17	2	0.4	0.9 34 LSW
		30	1448	2.75	19 20.22	155 11.35	5.75	1.3	1.1	14	1	94	.10	4	0.6	2.1 13 SF3
		30	1457	21.19	19 20.02	155 11.74	7.24	1.8	1.9	31	3	83	.07	5	0.4	0.6 28 SF3
		31	436	33.83	19 25.84	155 15.76	2.94	1.5	1.7	20	4	105	.09	1	0.3	0.2 18 SEC
		31	10 2	25.12	19 25.56	155 20.05	2.97	1.9	1.4	27	4	54	.13	4	0.4	0.9 22 KAO
		31	10 2	59.89	19 25.46	155 20.15	3.47	2.5	2.5	37	7	46	.13	4	0.3	0.8 32 KAO F
		31	10 5	59.10	19 25.68	155 19.87	3.01	1.9	1.7	25	4	67	.12	4	0.3	0.8 22 KAO F
		31	1018	6.67	19 25.51	155 20.05	2.79	2.1	2.2	29	6	53	.13	4	0.3	0.8 23 KAO
		31	1018	31.66	19 25.72	155 19.85	3.16	2.9	3.2	38	7	60	.14	4	0.3	0.6 29 KAO F
		31	1026	30.99	19 25.57	155 19.85	2.74	1.4	1.2	18	2	114	.12	4	0.5	1.1 16 KAO
		31	1041	54.39	19 25.89	155 19.48	3.43	1.4	1.4	19	4	138	.11	3	0.6	0.8 16 KAO

75

1985 HVO EARTHQUAKE SUMMARY LIST

PAGE 46

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	GAP NR	RMS NS	MIN DEG	ERH SEC	ERZ KM	NO FM	REMK
1985	DEC	31	12 7	20.92	19 25.74	155 19.58	3.67	2.4	2.7	40	7	38	.13	4	0.3	0.7 32 KAO F
		31	1228	30.32	19 25.72	155 19.81	2.41	1.3	1.2	16	3	121	.11	4	0.5	0.9 14 KAO
		31	1321	9.18	20 26.36	156 6.55	34.87	3.1	3.1	28	9	170	.10	39	0.7	0.8 24 DIS
		31	1335	34.06	19 25.74	155 19.35	3.98	3.1	3.4	48	6	47	.13	3	0.3	0.7 43 KAO F
		31	1352	17.70	19 25.67	155 19.45	5.31	1.6	1.2	22	5	100	.10	3	0.4	1.4 18 KAO
		31	14 0	46.10	19 25.57	155 19.80	3.52	1.4	1.1	24	6	67	.12	4	0.4	0.8 20 KAO
		31	14 7	5.74	19 25.60	155 19.60	3.66	2.7	2.9	47	8	38	.13	4	0.3	0.7 40 KAO F
		31	1523	2.25	19 25.79	155 19.58	2.65	1.5	1.1	25	4	130	.14	4	0.4	0.7 20 KAO
		31	1533	35.80	19 25.11	155 19.38	6.06	3.0	2.9	42	6	38	.11	3	0.3	0.7 37 KAO F
		31	1537	51.26	19 25.26	155 19.65	3.81	1.6	1.4	22	4	93	.10	4	0.4	0.8 19 KAO
		31	1611	24.52	19 25.62	155 19.25	5.21	1.8	1.1	13	1	139	.08	3	0.5	1.2 12 KAO
		31	1613	25.91	19 25.63	155 19.43	4.31	1.5	1.0	14	1	137	.07	3	0.5	1.1 13 KAO
		31	1617	31.66	19 25.39	155 19.57	5.81	1.7	1.3	15	2	90	.12	4	0.6	1.4 14 KAO
		31	1627	57.13	19 24.98	155 19.46	3.56	2.4	1.9	24	1	59	.12	3	0.4	1.1 22 KAO
		31	1647	8.60	19 25.22	155 19.54	5.09	2.1	2.3	19	1	61	.11	3	0.5	1.3 18 KAO F
		31	1755	51.92	19 25.32	155 19.51	3.77	1.9	1.2	14	1	125	.07	3	0.5	1.0 13 KAO
		31	18 8	35.02	19 25.33	155 19.65	3.79	2.1	2.0	33	5	46	.10	4	0.3	0.7 28 KAO
		31	1813	31.46	19 25.61	155 20.24	1.11	1.5	1.2	18	4	105	.10	4	0.3	0.8 15 KAO
		31	1816	0.16	19 18.93	155 15.29	6.54	1.1	1.1	20	1	104	.09	4	0.5	1.2 20 SF1
		31	1946	6.49	19 25.13	155 19.63	4.58	2.6	2.5	43	6	37	.14	4	0.3	1.0 38 KAO F

Table 6

HVO EARTHQUAKE SUMMARY LIST 1985 M<sub>0</sub>=3.0

PAGE 1

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG NR NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1985	JAN	3	1818	18.71	19 20.87	155 2.37	6.87	2.9	3.3 46	5 152	.16	2	0.5	0.6	33	SF5
		6	938	59.94	19 22.35	155 28.74	9.83	3.0	3.3 46	7 36	.10	2	0.3	0.4	37	KAO
		10	139	37.04	18 57.24	155 12.17	13.24	3.1	3.9 42	3 241	.12	36	1.5	0.9	36	LOI
		10	654	26.86	18 58.34	155 12.56	13.36	3.6	4.3 46	2 238	.10	34	1.2	0.6	40	LOI
		10	7 0	22.69	19 0.14	155 13.53	13.77	3.2	4.1 45	2 231	.11	31	1.2	0.6	33	LOI
		10	717	21.34	18 59.16	155 12.81	13.59	3.4	4.2 42	2 271	.10	33	1.6	0.6	35	LOI
		15	1139	25.88	19 20.56	155 12.99	8.87	3.1	3.7 49	5 65	.13	4	0.4	0.4	40	SF2 F
		21	313	23.51	19 19.68	155 11.29	8.80	2.8	3.4 51	6 92	.12	5	0.3	0.4	38	SF3
		21	852	28.31	18 56.82	155 11.64	15.43	3.5	4.4 54	7 243	.12	37	1.2	4.0	48	LOI
		21	855	50.83	18 56.34	155 11.57	13.45	2.7	3.5 44	2 245	.12	38	1.6	1.3	30	LOI
		25	410	59.83	19 20.34	155 3.61	8.61	2.8	3.2 45	3 112	.12	1	0.6	0.5	39	SF5
		28	0 6	10.12	19 27.20	154 52.66	8.36	2.7	3.3 40	3 153	.13	3	0.8	0.4	34	LER
		31	1757	11.72	19 20.60	155 11.86	8.81	2.9	3.1 38	4 72	.13	4	0.4	0.5	33	SF3
	FEB	7	7 7	25.82	19 19.44	155 10.37	9.23	2.9	3.4 47	7 99	.12	5	0.4	0.4	38	SF3
		9	843	34.34	19 22.35	155 28.96	10.67	2.9	3.1 47	2 35	.12	2	0.3	0.4	44	KAO
		10	113	40.60	19 57.65	155 30.58	12.77	3.1	3.6 50	7 170	.14	19	0.9	1.5	42	KEA
		11	1952	17.67	19 19.76	155 12.38	8.60	2.8	3.2 45	6 82	.10	5	0.3	0.3	33	SF2
		21	1948	29.39	19 19.68	155 12.65	9.45	4.8	4.7 48	3 80	.10	5	0.4	0.4	43	SF2 F
		24	2141	57.41	19 57.32	155 31.07	41.54	3.2	3.2 53	8 236	.10	18	0.9	1.2	45	KEA
		25	1827	46.41	19 47.23	156 4.40	10.68	3.9	4.3 47	2 240	.12	27	1.1	0.7	46	HUA F
		27	1339	28.16	20 10.54	155 40.57	27.01	3.2	3.0 42	6 243	.10	12	0.8	1.5	29	KOH
		28	2 7	39.99	19 51.10	155 11.17	33.58	3.3	2.9 43	3 210	.12	17	0.9	2.0	39	KEA
	MAR	4	045	57.27	19 19.56	155 11.80	8.90	3.2	3.5 48	7 91	.12	6	0.3	0.4	40	SF3
		4	21 9	3.42	19 22.11	155 28.94	9.94	3.0	3.4 52	10 37	.11	2	0.3	0.4	39	KAO F
		6	2227	23.13	19 22.16	155 28.65	10.32	3.0	3.2 49	6 37	.12	2	0.3	0.4	43	KAO
		11	821	45.05	19 20.95	155 2.32	7.57	3.4	3.7 34	2 160	.09	2	0.6	0.4	19	SF5 F
		16	755	2.32	19 24.87	156 16.66	32.00	3.4	3.4 37	2 295	.11	39	2.1	1.7	33	KON
		16	2126	14.06	18 58.36	155 12.43	46.52	3.4	3.5 59	11 238	.11	34	0.9	1.1	51	LOI
		22	535	51.95	19 53.60	156 36.64	1.73	3.3	3.5 45	10 183	.12	84	1.4	0.7	26	DIS
		22	7 7	54.85	19 53.99	156 36.64	1.56	4.1	4.3 55	7 298	.12	84	5.2	2.3	39	DIS
		22	714	43.53	20 43.89	158 12.51	5.98	3.9	3.4 18	7 350	.90273	54.6	82.6	13	DIS	
		29	257	45.02	19 20.38	155 11.56	9.15	3.1	3.2 55	12 78	.11	4	0.3	0.4	43	SF3 F
		30	9 3	9.01	19 16.68	155 30.87	43.23	3.4	3.5 62	14 48	.09	3	0.5	0.8	52	DLS F
	APR	1	1131	18.48	19 21.70	155 5.08	9.00	4.1	4.3 58	10 82	.11	5	0.4	0.3	50	SF5 F
		7	22 6	38.56	19 55.83	156 40.35	26.20	3.4	4.5 52	10 251	.14	91	1.3	3.3	42	DIS
		9	1654	34.00	19 22.98	155 30.42	9.47	3.1	3.5 51	6 33	.10	5	0.3	0.4	42	KAO
		12	019	35.24	18 53.45	155 15.13	11.99	2.8	3.9 44	6 251	.11	37	0.9	0.7	41	LOI L
		17	1156	51.84	19 25.61	155 29.35	9.85	2.9	3.1 55	9 36	.11	7	0.3	0.4	49	KAO
		21	1237	41.99	19 38.87	156 1.08	14.67	3.3	3.3 43	6 225	.12	19	1.0	0.5	40	KON
		27	754	48.37	19 13.82	155 4.65	47.86	3.7	3.6 56	9 216	.12	9	1.0	0.7	50	DEP F
	MAY	22	210	28.28	19 39.78	156 2.21	10.94	3.2	3.3 50	7 229	.13	21	0.9	0.6	37	HUA F
		22	2236	54.60	19 11.53	155 37.07	9.32	3.6	3.6 61	14 95	.18	6	0.4	0.6	51	LSW
		26	2036	40.45	19 16.52	155 22.07	8.10	2.9	3.4 58	13 132	.16	5	0.4	0.5	50	SWR F
	JUN	3	241	29.76	19 21.58	155 1.93	7.94	2.8	3.4 48	7 150	.12	4	0.5	0.4	44	SF5
		7	2336	11.08	19 33.97	155 56.93	26.43	3.6	3.8 59	10 209	.12	9	0.7	1.2	48	KON F

HVO EARTHQUAKE SUMMARY LIST 1985 M>=3.0

PAGE 2

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG		GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1985	JUN	10	050	32.73	19 17.91	155 47.72	10.77	3.1	3.1	46	5	88	.12	9	0.5	0.3	38 KON
		17	231	12.49	19 15.97	155 5.01	45.68	3.6	3.8	63	13	195	.11	6	0.8	0.6	53 DEP
		17	737	42.58	19 22.24	155 28.71	10.09	3.1	3.3	59	12	36	.11	2	0.3	0.4	51 KAO F
		28	526	26.92	19 18.70	155 50.32	11.59	3.1	2.9	40	3	123	.12	6	0.7	0.3	34 KON
		30	1112	24.05	19 22.42	155 17.87	26.87	4.2	4.6	51	2	27	.12	2	0.5	0.8	47 DEP F
	JUL	7	2 0	37.46	19 10.14	155 35.92	10.81	4.3	4.5	57	11	105	.18	9	0.5	0.5	48 LSW F
		7	2 6	40.93	19 8.95	155 35.32	7.44	3.2	3.0	49	9	119	.14	12	0.5	0.8	44 LSW
		7	225	3.97	19 8.65	155 35.20	10.77	3.6	3.6	48	7	123	.15	12	0.5	0.5	43 LSW
		7	6 9	15.25	19 8.32	155 35.87	10.74	3.1	3.1	51	9	123	.15	12	0.4	0.5	44 LSW
		7	628	32.06	19 8.10	155 35.36	11.12	3.2	3.0	47	6	128	.13	13	0.3	0.3	43 LSW
		10	2120	8.43	19 13.01	155 32.63	10.29	3.1	3.1	51	9	80	.18	6	0.5	0.6	45 LSW
		11	1511	58.59	19 30.26	154 55.27	40.31	3.6	3.6	59	11	65	.10	4	0.7	0.9	51 LER
		14	357	42.17	19 46.08	155 39.72	12.44	3.2	3.1	56	10	98	.12	10	0.5	0.4	48 KEA
		25	534	13.55	19 44.69	156 29.07	35.11	3.7	4.1	58	11	238	.12	66	0.9	1.7	49 DIS F
		31	940	15.67	18 54.77	155 15.28	11.20	2.9	3.5	45	5	247	.12	35	1.0	0.6	44 LOI
	AUG	4	12 3	40.90	19 29.49	155 0.34	42.78	3.2	3.1	55	6	73	.11	6	0.7	1.1	49 DEP
		4	1724	38.08	19 25.13	154 56.37	38.88	3.1	2.9	50	7	166	.11	4	0.8	0.9	45 LER
		6	8 6	59.39	19 12.11	155 27.31	8.84	3.2	3.6	51	5	119	.19	5	0.5	0.7	42 LSW F
		11	1857	11.91	20 0.73	156 1.56	10.10	2.9	3.3	44	7	254	.13	29	0.8	0.5	42 KOH
		13	10 2	53.93	19 11.63	155 39.47	10.63	3.5	3.9	35	1	108	.19	7	0.7	0.8	23 LSW F
		20	1948	54.60	21 0.50	156 10.01	32.83	3.2	3.1	44	6	302	.13	28	1.6	1.2	41 DIS
		22	628	0.16	19 18.55	156 4.22	40.04	4.2	4.7	62	14	248	.09	21	0.7	0.6	51 KON F
		24	111	10.65	20 32.71	155 31.19	0.70	3.1	3.4	41	6	297	.14	54	7.0	2.2	37 DIS
	SEP	2	1951	12.42	19 19.69	155 13.75	9.66	3.3	3.5	54	10	61	.12	5	0.3	0.3	46 SF2
		3	1122	54.75	18 52.29	155 15.43	12.91	3.1	3.7	52	6	255	.11	39	1.0	1.3	49 LOI
		4	1327	25.48	19 21.46	155 3.24	7.23	3.0	3.1	47	5	107	.13	3	0.5	0.5	44 SF5
		14	2359	27.89	19 20.14	155 11.60	9.70	2.9	3.3	52	9	81	.11	5	0.4	0.3	45 SF3 F
		20	536	9.65	20 27.39	157 44.34	41.79	3.3	3.6	26	1	225	.18	100	2.3	2.5	24 DIS
		30	1928	11.20	19 48.22	155 23.05	24.39	3.0	3.5	66	17	82	.10	8	0.4	0.8	60 KEA F
	OCT	3	612	48.71	19 46.97	155 35.72	15.31	3.7	4.1	67	19	96	.10	11	0.3	0.5	63 KEA F
		8	1348	37.18	19 17.41	155 12.12	2.38	2.9	3.1	48	5	153	.13	2	0.4	0.6	45 SSF
		10	10 2	26.58	19 18.83	155 52.58	11.31	3.4	3.2	53	15	175	.12	5	0.5	0.2	50 KON
		12	844	7.08	19 21.76	155 19.83	31.01	3.6	4.0	58	7	46	.12	4	0.5	0.8	51 DEP F
		13	115	50.67	18 27.26	156 54.14	14.79	3.0	3.0	45	5	327	.19	141	27.5	43.4	45 DIS
		13	2312	55.91	19 50.87	155 23.41	30.42	3.0	3.1	66	17	98	.12	7	0.5	0.8	58 KEA
		14	1913	40.87	19 20.80	155 2.95	8.67	3.1	3.3	50	7	120	.12	2	0.6	0.4	44 SF5 F
		17	8 3	46.80	19 7.21	155 34.97	11.46	3.1	3.7	28	1	139	.13	13	0.5	0.4	26 LSW
		17	8 6	15.93	19 7.17	155 35.02	11.16	3.2	3.6	27	3	140	.13	13	0.5	0.6	24 LSW
		17	1857	42.60	19 30.42	155 55.14	11.91	3.0	3.2	49	10	194	.15	2	0.7	0.3	45 KON F
		25	19 6	28.48	19 22.32	155 28.53	11.02	3.1	3.4	53	8	37	.12	2	0.3	0.4	46 KAO
	NOV	13	20 1	55.34	19 24.38	155 17.04	19.28	3.0	3.3	58	9	36	.13	1	0.4	0.6	49 DEP F
		18	417	7.20	19 12.58	155 37.79	8.19	3.1	3.2	49	8	96	.18	5	0.6	0.7	45 LSW
		23	853	29.11	19 16.61	155 27.83	8.87	2.9	3.2	54	8	59	.15	5	0.3	0.6	48 LSW F
		24	1630	27.78	19 56.81	155 45.02	7.20	2.9	3.1	29	3	154	.14	14	0.6	0.6	26 KOH
		28	829	47.58	19 18.44	155 16.70	9.16	3.0	3.2	51	8	116	.12	3	0.4	0.5	45 SF1

HVO EARTHQUAKE SUMMARY LIST 1985 M<sub>s</sub>=3.0

PAGE 3

YEAR	MON	DA	HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1985	DEC	12	9	1	22.87	20 34.68	155 45.31	25.05	4.7	4.9	55	8	208	.11	50	0.9	3.0	49	DIS F
		12	1118	39.33	19 30.96	155 54.45	11.80	4.0	4.3	57	13	171	.13	3	0.6	0.3	52	KON F	
		12	2217	44.48	19 21.81	155 2.67	8.95	3.4	3.9	52	11	134	.12	4	0.5	0.3	44	SF5 F	
		13	429	10.41	19 22.26	155 4.81	8.79	3.2	3.4	53	9	80	.11	4	0.4	0.3	47	SF5	
		13	1320	57.37	19 19.67	155 7.76	9.34	4.0	4.1	56	10	99	.11	4	0.4	0.3	48	SF4 F	
		23	638	35.12	19 21.45	155 0.74	8.71	3.2	3.8	45	6	186	.11	5	0.7	0.5	39	SF5 F	
		24	14	0	14.09	19 20.94	155 8.04	8.04	2.8	3.5	53	11	77	.15	4	0.4	0.5	46	SF4
		24	2338	26.81	19 14.07	155 30.74	9.64	3.3	3.5	48	8	129	.16	2	0.6	0.6	47	LSW F	
		26	628	29.45	19 10.62	155 33.35	8.90	2.9	3.1	41	2	134	.13	10	0.5	0.7	40	LSW	
		31	1018	31.66	19 25.72	155 19.85	3.16	2.9	3.2	38	7	60	.14	4	0.3	0.6	29	KAO F	
		31	1321	9	18 26.36	156 6.55	34.87	3.1	3.1	28	9	170	.10	39	0.7	0.8	24	DIS	
		31	1335	34.06	19 25.74	155 19.35	3.98	3.1	3.4	48	6	47	.13	3	0.3	0.7	43	KAO F	

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