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

HAWAIIAN VOLCANO OBSERVATORY
SUMMARY 91 PART I
SEISMIC DATA, JANUARY TO DECEMBER 1991

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+ Arrived during 1991
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INTRODUCTION

The Hawaiian Volcano Observatory (HVO) summary presents data gathered during the year, with a narrative highlighting seismic activity and 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. It is complete in the sense that all data for events of M≥1.5 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 forms 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 publication beginning with Summary 74 for the year 1974. Summary 86 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 allow use of the data and to provide an understanding of how they were gathered.

A report tabulating instrumentation, calibration, and recording history of each seismic station in the network by Klein and Koyanagi is available as a USGS Open-File Report[1]. It is designed as a reference for users of seismograms and phase data and includes and augments the information in the station table in this summary.

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[1] Klein, F.W., and Koyanagi, R.Y., 1980, Hawaiian Volcano Observatory seismic network history, 1950-1979: U.S. Geological Survey Open-File Report 80-302, 84 p.

CHRONOLOGICAL SUMMARY - 1991

by

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Kupaianaha

1991 was a year of transition for the Puu Oo/Kupaianaha eruption. At the beginning of the year, the woodchip tube, which fed flows to Kalapana, was still active, but flow activity soon reverted to the western side of the flow field, where lava entered the ocean at three main entry points until September. The new year also brought the era of eruptive pauses to a close. In 1990, the continuous effusion from Kupaianaha was interrupted by 12 pauses, the last occurring in November 1990. The pauses were soon followed by an era of intrusions. The first intrusion was at Kilauea's summit in December 1990, the second on the upper east rift zone in March, and the third at the summit in August. The only immediate, visible effect of the intrusions on the eruption was a brief increase in activity at the Puu Oo lava pond following the December intrusion.

The lava output from Kupaianaha gradually diminished after we began to make VLF measurements on a regular basis in April 1991. By year's end, the volume was about a quarter of that measured in April. The over-all eruption output briefly surged in November, when a fissure opened between Puu Oo and Kupaianaha. The fissure activity (episode 49) lasted about two weeks. Our estimate of the volume erupted from the episode 49 vent is 15 x 10^6 m^3 (not corrected for void space).

Puu Oo

One of the most dramatic changes in 1991 occurred at Puu Oo, where, in August, the active lava pond rose to within 40 m of the crater rim. This was the culmination of more than a year of heightened activity in Puu Oo. Lava has been active intermittently at the bottom of the crater since 1987, but since August 1990 the activity has been continuous. In that month, the depth from the crater rim to the floor rose abruptly from about 180 m to 80 m. By January 1991, a lava pond had formed on the extreme northeastern (downrift) side of the crater, almost undercutting the crater wall. Through July 1991, this pond, which covered about 20% of the floor, was a constant feature of the crater. Activity was usually confined within the pond's levees, although, occasionally, short-lived overflows covered a broader area.

The floor maintained a constant level until August 1991, when it rose to 40 m below the rim during a period of greatly increased pond activity, marked by weeks of gas-pistoning (during which the pond level rapidly rose and fell by several meters), low-level fountaining, and frequent pond overflows that covered the entire floor. In November, the pond drained shortly after episode 49 began, and the floor dropped to roughly 80 m below the rim. As activity resumed in December, the floor rose to the 40 m level once again.

The crater continued to enlarge in 1991 through collapse of the inner walls and stoping of the rubble into the conduit below. The dimensions of the crater at the end of the year were 290 m by 200 m. The cone had lost 22 m in height since the last high fountaining episode in 1986.

Table C-1.

Eruption Statistics

Areas

Total area covered by lava, January 1983 through December 1991 = 76 km^2 (29 sq mi)

Surface area* covered by Puu Oo flows (episodes 1-47) and by the 'A vent" flow of episode 48 = 36 km^2 (14 sq mi)

Surface area covered by Kupaianana flows through December 1991 = 40 km^2 (15 sq mi)

Surface area covered by episode 49 flows, November 8-26, 1991 = approximately 4 km^2 (1.5 sq mi)

*Puu Oo flows originally covered about 42 sq km, but some of this area has been reburied by Kupaianaha flows.

New land created December 1986 - December 1991 = approximately 300 acres. (This is a net figure, which does not include new land that was claimed by wave erosion or collapse of the active lava bench.)

Volumes

This eruption:

Total, January 1983 through December 1991 = approximately 950 x 10^6 m^3 (dense rock equivalent)

Episodes 1-47 (1/83 - 6/86) = 550 x 10^6 m^3 (not corrected for void space) or roughly 385 x 10^6 m^3 dense rock equivalent

Episode 48 (7/86 - 12/91) = approximately 550 x 10^6 m^3 (dense rock equivalent)

Episode 49 (11/91) = (preliminary) 15 x 10^6 m^3 (not corrected for void space)

Other fascinating facts

Height of Kupaianaha lava shield = 56 m

Kupaianaha pond status: completely sealed off since June 1990

Height of Puu Oo cone, January 1992 = 235 m (772 ft). The cone has lost 22 m due to collapse since 1986.

Dimensions of Puu Oo Crater, October 1991 = 200 m x 295 m

Depth of Puu Oo Crater floor, January 1992 = 40 m

Puu Oo pond status: active almost all of 1991

Thickness of lava at the coast:

roughly 25 m (75 ft) over Highway 130 at Queen's Bath

roughly 50-75 ft over Kalapana Gardens

roughly 15 m (45 ft) near the sea cliff at mid-flow

Structures destroyed:

Residences destroyed through December 1991 = 181. Total losses = $61 million.

Other structures include the Wahaʻula Visitor Center and maintenance shop, Royal Gardens community center, Mauna Kea Congregational Church, Puna Canoe Club halau, and the Kalapana Drive-in.

Puu Oo, Episodes 1-47: 16

Kupaianaha:

November 1986-December 1989: 58

February 1990-January 1991: 105

October 1991: 2

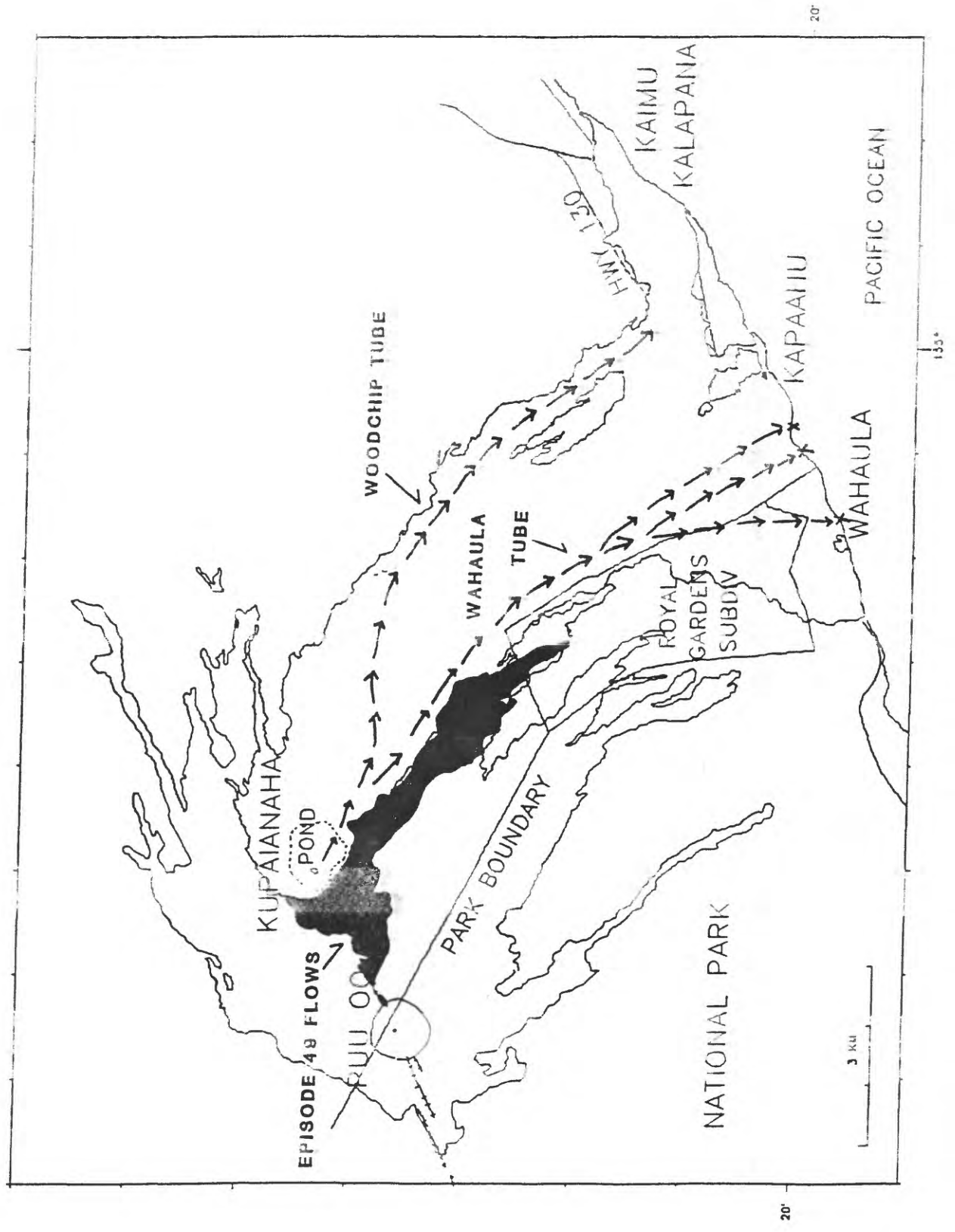

Figure C-1. Map showing area covered by lava flows produced by Kilauea's east rift eruption from 1983 through 1991.

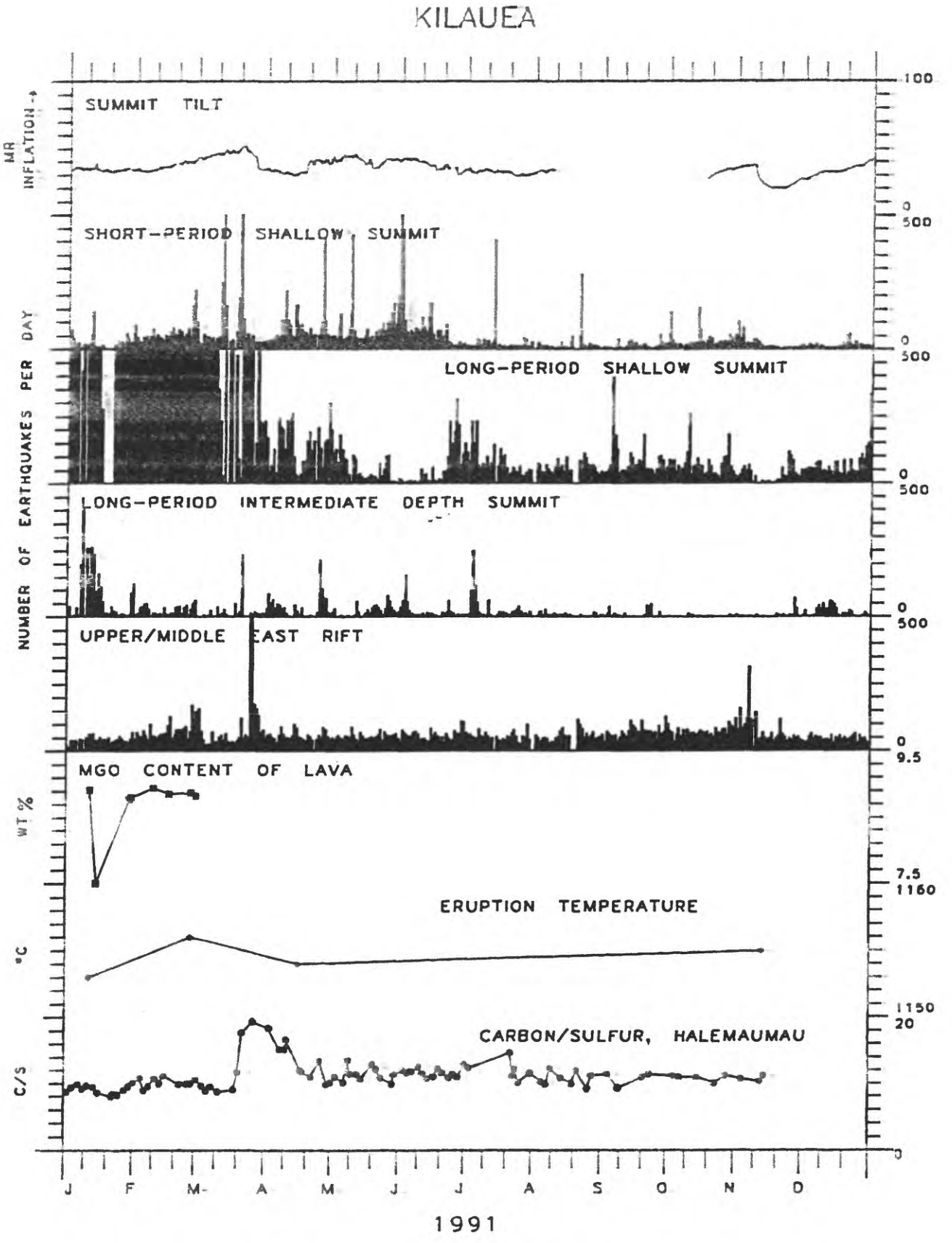

Figure C-2. Selected seismic, geodetic, petrologic and geochemical data for Kilauea, 1991.

SEISMIC INSTRUMENTATION

The network. The Hawaiian Volcano Observatory maintains an extensive telemetered seismic network on the Island of Hawaii. The 1991 network consisted of 52 stations--50 digital and 2 low-gain, three-component optical. The 50 digital stations include 12 three-component and 38 vertical-component-only sites. The coverage is most dense on and around Kilauea Volcano. With the exception of self-contained systems at the Uwekahuna and the Hilo stations, all seismic 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 operated on the Island of Hawaii during 1991, 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 field office in Hawaii during 1991. Listed are names, four-letter station codes, coordinates in degrees and minutes, elevation in meters, and other data, as described below, pertaining to each station. In addition to the seismometers listed in Table 1, a long-period, three-component set of Press-Ewing seismometers was operated in the Uwekahuna vault and 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 Office of Earthquakes, Volcanoes and Engineering (OEVE) standard system used in USGS seismic networks (see Table 2 for details). After discrimination at the receiver, the analog signals are converted to digital form as part of the routine computer location processing and archiving. Analog signals from 36 selected stations are recorded on two Develocorders using 16-mm 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. The type(s) of continuous recording used for each station (in addition to magnetic tape for the telemetered stations) is coded in Table 1 as follows: D - Develocorder film, P - photographic paper, H - Helicorder paper, and I - ink paper.

In addition to the standard stations, optical drum seismographs are maintained at Uwekahuna (HVO) and Hilo and a helicorder drum seismograph is maintained 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 three short-period seismograph types in use are given in Figure 4. Types 2 and 3 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 is multiplied by a constant but known factor (CAL-factors range from about 1 to 7, averaging about 4, 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 millimeters on the 20x Develocorder viewer of a 100-microvolt 5 to 8-Hz signal introduced to the preamp/VCO in place of the geophone at the field station. The calibration process is normally performed each time a station is visited when other maintenance is required.

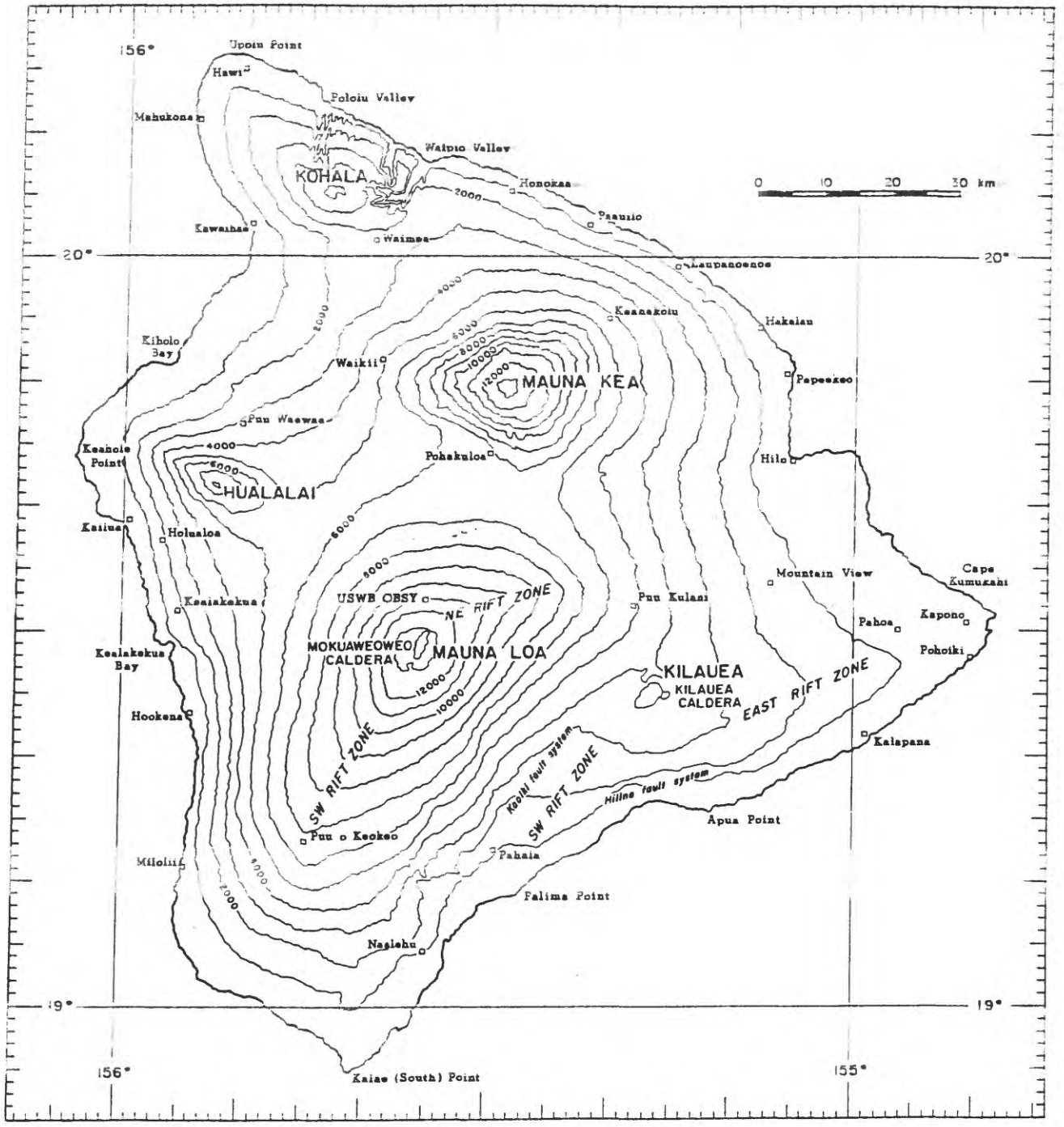

Figure 1. Map of the Island of Hawaii, showing principal settlements and selected geographic and geologic features.

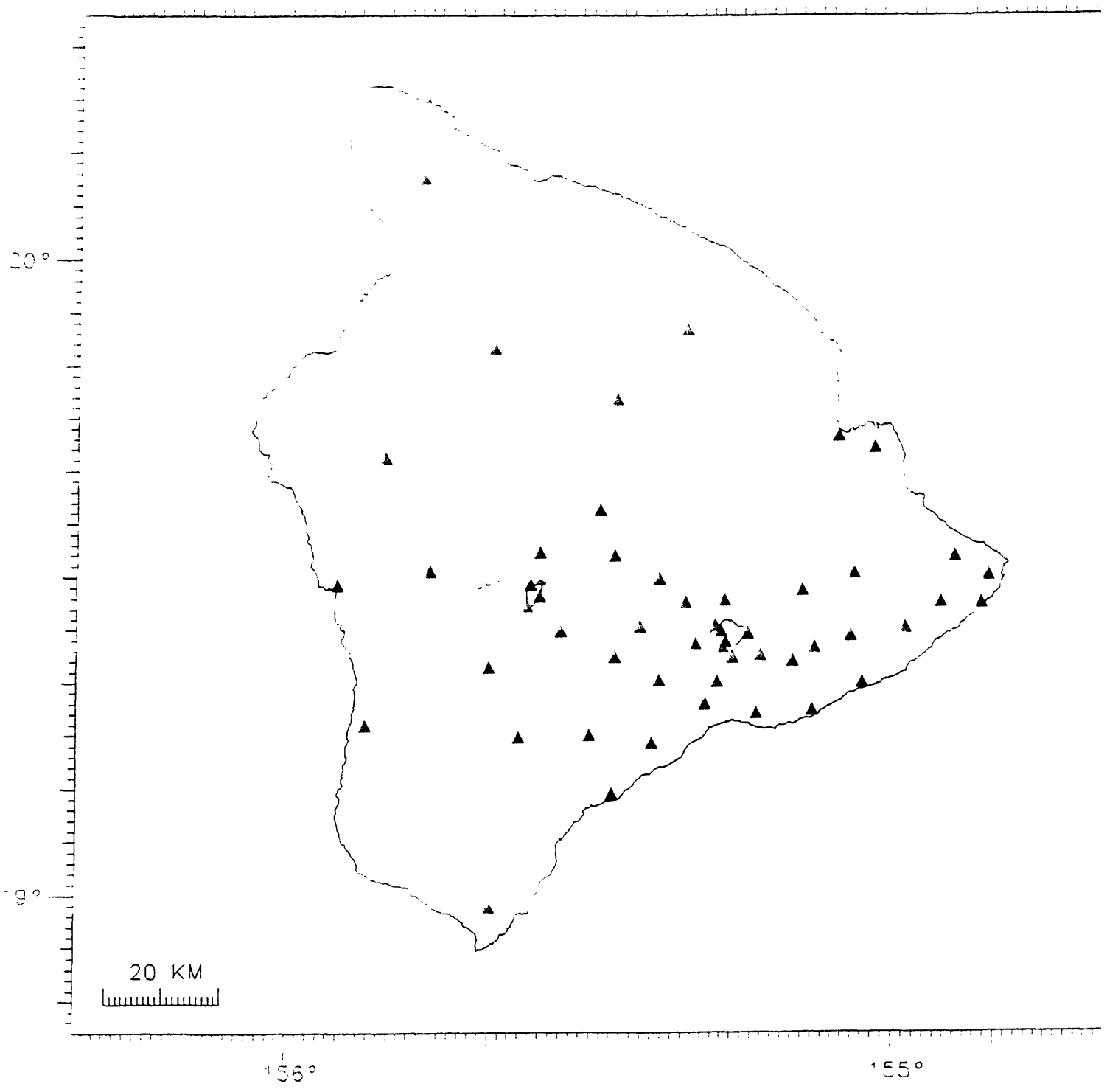

Figure 2. Seismic stations operational during 1991 on the Island of Hawaii.

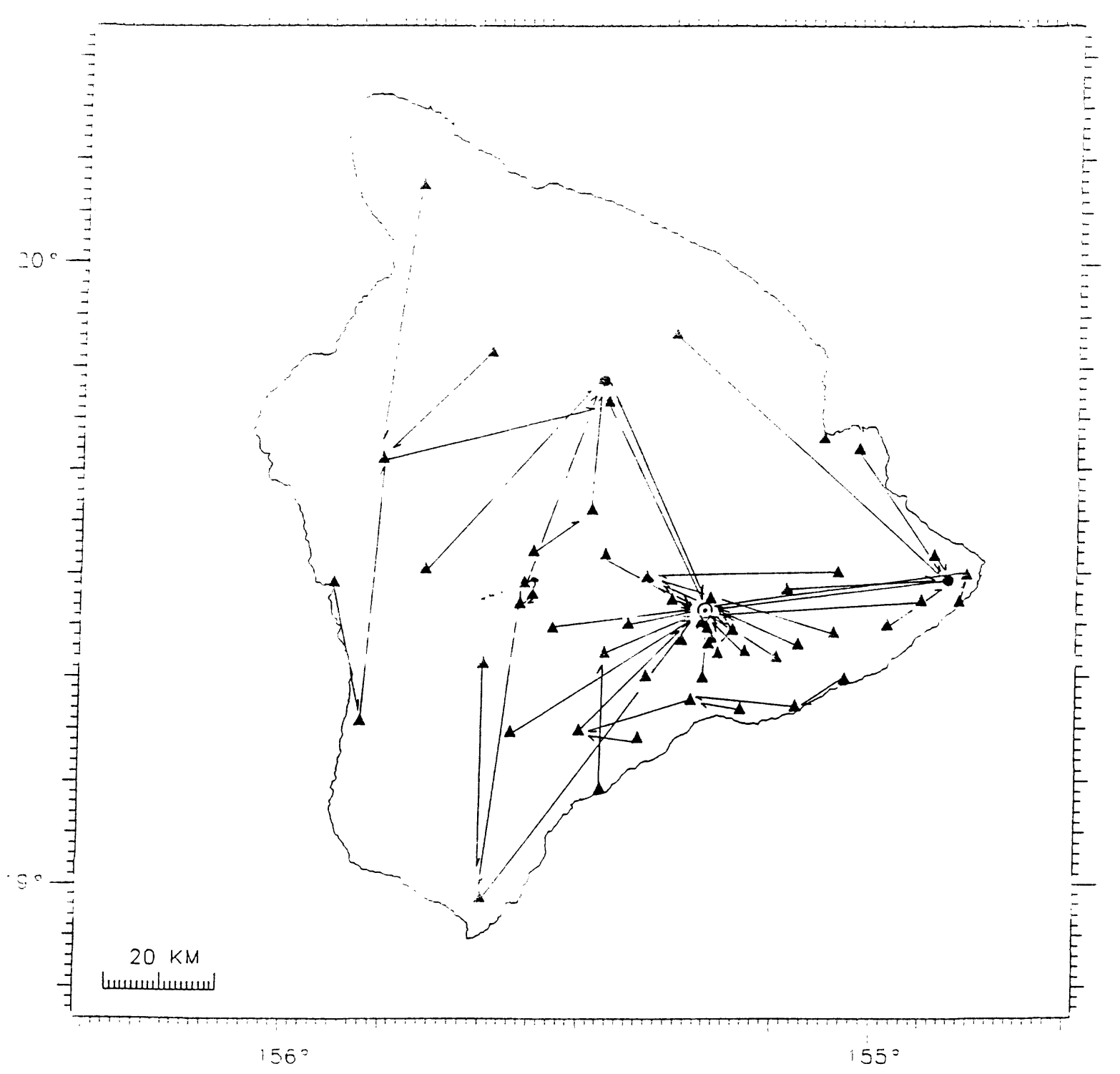

Figure 3. Telemetry scheme for the 1991 Hawaiian Volcano Observatory seismic network.

Legend
- △ Seismometer location
- • Repeater station
- ○ HVO

Table 1. Seismic stations in Hawaii operated by the USGS in 1991.

STATION NAME	CODE	--LAT--- D	M	---LON--- D	M	ELEV M)	DELAY 1	DELAY 2	CAL	SEIS TYPE	OPTIC RECORD
AHUA	AHUV	19	22.40	155	15.30	1070	-0.10	-0.13	2.1	E5	DI
AHUA	AHUE	19	22.40	155	15.30	1070	-0.10	-0.13	3.0	MW	
AHUA	AHUN	19	22.40	155	15.30	1070	-0.10	-0.13	3.0	MW	
AINAPO	AINV	19	32.30	155	27.62	1524	0.13	0.17	5.6	L5	D
AINAPO	AINE	19	32.30	155	27.62	1524	0.13	0.17	3.0	MW	
AINAPO	AINN	19	32.30	155	27.62	1524	0.13	0.17	3.0	MW	
CAPTAIN COOK	CACV	19	29.29	155	55.09	122	0.00	-0.16	2.1	L5	D
CONE PEAK	CPKV	19	33.70	155	19.70	1038	-0.26	-0.37	6.0	E4	
DANDELION	DANV	19	21.42	155	40.04	2003	-0.27	0.03	7.0	E4	D
DESERT	DESV	19	20.20	155	23.30	815	-0.29	-0.13	3.0	L5	DI
ESCAPE ROAD	ESRV	19	24.68	155	14.33	1177	-0.17	-0.19	2.2	L5	D
FERN FOREST	FEFV	19	28.70	155	8.91	691	0.01	0.05	0.0	L5	
HAWAIIAN BEACHES	HABV	19	31.89	154	53.99	92	-0.09	-0.24	1.0	L4	
HALEAKALA, MAUI	HAE	20	46.00	156	15.00	2090	0.00	0.00	1.0	W	P
HALEAKALA, MAUI	HAL	20	46.00	156	15.00	2090	0.00	0.00	1.0	H1	P
HALEAKALA, MAUI	HAN	20	46.00	156	15.00	2090	0.00	0.00	1.0	W	P
HILO	HIE	19	43.20	155	5.30	20	0.54	0.30	1.0	W	P
HILO	HIL	19	43.20	155	5.30	20	0.54	0.30	1.0	H1	P
HILO	HIN	19	43.20	155	5.30	20	0.54	0.30	1.0	W	P
HILINA PALI	HLPV	19	17.96	155	18.63	707	0.02	0.07	2.6	L5	D
HONOLULU, OAHU	HON	21	19.30	158	0.50	2	0.00	0.00	0.0	H1	H
HALE POHAKU	HPUV	19	46.85	155	27.50	3396	0.31	0.17	3.3	L4	D
HUMUULA SHEEP	STHSSV	19	36.31	155	29.13	2445	0.20	0.35	3.3	L5	D
HUMUULA SHEEP	STHSSE	19	36.31	155	29.13	2445	0.20	0.35	3.0	MW	
HUMUULA SHEEP	STHSSN	19	36.31	155	29.13	2445	0.20	0.35	3.0	MW	
HOT CAVES	HTCV	19	14.33	155	24.02	381	-0.16	-0.07	0.0	E4	
HUALALAI	HUAV	19	41.25	155	50.32	2189	0.67	0.38	3.0	L4	DI
HEIHEIAHULU	HULV	19	25.13	154	58.72	369	-0.17	-0.16	1.6	L5	DI
HEIHEIAHULU	HULE	19	25.13	154	58.72	369	-0.17	-0.16	3.0	MW	
HEIHEIAHULU	HULN	19	25.13	154	58.72	369	-0.17	-0.16	3.0	MW	
KAAPUNA	KAAV	19	15.98	155	52.28	524	-0.12	-0.01	3.5	E5	D
KAENA POINT	KAEV	19	17.35	155	7.95	37	-0.01	0.06	1.4	L5	D
KAOIKI FAULTS	KFAV	19	25.25	155	25.18	1579	0.13	0.17	0.0	E5	
KAHUKU	KHUV	19	14.90	155	37.10	1939	0.03	-0.03	2.7	E4	D
KANEKII	KIIV	19	30.56	155	45.90	1841	0.15	0.37	2.9	L5	D
KANEKII	KIIE	19	30.56	155	45.90	1841	0.15	0.37	3.0	MW	
KANEKII	KIIN	19	30.56	155	45.90	1841	0.15	0.37	3.0	MW	
KEANAKOLU	KKUV	19	53.39	155	20.58	1863	0.68	0.24	3.3	L5	D
KALALUA CONE	KLCV	19	24.35	155	4.08	659	-0.25	-0.30	0.0	L5	DH
PUU KALIU	KLUV	19	27.48	154	55.26	271	-0.17	-0.30	2.9	L5	D
KOHALA	KOHV	20	7.69	155	46.77	1166	-0.03	-0.17	1.5	L5	D
KOHALA	KOHE	20	7.69	155	46.77	1166	-0.03	-0.17	3.0	MW	
KOHALA	KOHN	20	7.69	155	46.77	1166	-0.03	-0.17	3.0	MW	
KIPUKA NENE	KPNV	19	20.10	155	17.40	924	-0.11	-0.08	3.5	L5	D
KAPOHO	KPOV	19	30.02	154	50.51	134	-0.09	-0.24	2.5	L5	D
MAUNA LOA	MLOV	19	29.80	155	23.30	2010	0.03	0.08	5.8	L5	DI
MAUNA LOA	MLOE	19	29.80	155	23.30	2010	0.03	0.08	3.0	MW	D
MAUNA LOA	MLON	19	29.80	155	23.30	2010	0.03	0.08	3.0	MW	
MAUNA LOA X	MLXV	19	27.60	155	20.70	1475	0.06	0.15	3.0	L5	
MOKUAWEOWEO	MOKV	19	29.28	155	35.98	4104	0.15	0.16	5.5	L4	DI
MAKAOPUHI	MPRV	19	22.07	155	9.85	881	-0.17	-0.20	4.2	L5	DI
MOUNTAIN VIEW	MTVV	19	30.25	155	7.75	409	-0.02	0.01	5.0	E5	D
NATIONAL GUARD	NAGV	19	42.12	155	1.72	18	0.54	0.30	3.2	E5	D
NORTH PIT	NPTV	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	L4	DI
NORTH PIT	NPTE	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	MW	
NORTH PIT	NPTN	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	MW	
OUTLET	OTLV	19	23.28	155	16.94	1038	-0.19	-0.18	4.9	L4	
PAUAHI	PAUV	19	22.62	155	13.10	994	-0.21	-0.24	2.4	L4	D
PAUAHI	PAUE	19	22.62	155	13.10	994	-0.21	-0.24	3.0	MW	

PAUAHI	PAUN	19	22.52	155	13.10	994	-0.21	-0.24	3.0	MW	
PUU ULAULA	PLAV	19	22.00	155	27.67	2992	-0.03	0.13	5.1	L5	DI
POHOIKI	POIV	19	27.42	154	51.22	16	-0.09	-0.24	0.0	L5	
POLIOKEAWE PALI	POLV	19	17.02	155	12.47	169	-0.02	0.03	2.8	E5	D
PUU PILI	PPLV	19	9.50	155	27.87	25	-0.15	-0.15	1.7	E4	D
RIM	RIMV	19	23.90	155	16.60	1128	-0.21	-0.13	0.0	L5	
RAINSHED	RSDV	19	27.78	155	16.68	1270	0.06	0.15	0.0	L5	
SOUTHPOINT	SPTV	18	58.91	155	39.92	244	-0.17	-0.22	2.8	L5	D
SOUTH POINT	SPTE	18	58.91	155	39.92	244	-0.17	-0.22	3.0	MW	
SOUTH POINT	SPTN	18	58.91	155	39.92	244	-0.17	-0.22	3.0	MW	
STEAM CRACKS	STCV	19	23.20	155	7.67	765	-0.25	-0.30	2.4	L5	DH
STEAM CRACKS	STCE	19	23.20	155	7.67	765	-0.25	-0.30	3.0	MW	
STEAM CRACKS	STCN	19	23.20	155	7.67	765	-0.25	-0.30	3.0	MW	
SOUTHWEST RIFT	SWRV	19	27.26	155	36.30	4048	0.01	0.04	5.6	E4	D
TRAIL	TRAV	19	24.01	155	32.96	3207	0.00	0.00	0.0	L5	
UWEKAHUNA	UEE	19	25.40	155	17.60	1240	-0.21	0.00	2.5	E	P
UWEKAHUNA	UEN	19	25.40	155	17.60	1240	-0.21	0.00	2.5	E	P
UWEKAHUNA	UEZ	19	25.40	155	17.60	1240	-0.21	0.00	2.5	E	P
UWEKAHUNA	URAV	19	25.40	155	17.60	1240	-0.21	0.00	0.0	RA	
UWEKAHUNA	URAE	19	25.40	155	17.60	1240	-0.21	0.00	0.0	RA	
UWEKAHUNA	URAN	19	25.40	155	17.60	1240	-0.21	0.00	0.0	RA	
WAIKII	WAIV	19	51.58	155	39.60	1433	0.20	0.35	0.0	L5	
WAHAULA	WHAV	19	19.90	155	2.92	29	-0.10	-0.04	1.5	E4	D
WILKES CAMP	WILV	19	28.15	155	35.02	4037	0.22	0.17	2.6	E5	D
WILKES CAMP	WILE	19	28.15	155	35.02	4037	0.22	0.17	3.0	MW	
WILKES CAMP	WILN	19	28.15	155	35.02	4037	0.22	0.17	3.0	MW	
WEATHER OBSERVATWOBV		19	32.31	155	35.01	3396	0.00	0.00	0.0	E4	
WOOD VALLEY	WOOV	19	15.08	155	30.12	909	-0.15	-0.06	4.6	E5	

Table 2. Seismic Instrument Types

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

Type 1 (Codes E, L, and 3, 4, 5) consists of:

a) Geophone - Electrotech EV-17 (E), or Mark Products L4C (L) 1.0-sec. period moving-magnet vertical- or horizontal- (E-W and N-S) component seismometer adjusted for an output of 0.5 volts/cm/sec and 0.8, critically damped.

b) Preamp/VCO - USGS/OEVE Model J302 (3), J402 (4), J502 (5) 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 (Code E) consists of:

a) Electrotech EV-17 1.0-sec. period moving-magnet vertical- or horizontal- (E-W and N-S) component seismometer.

b) 3.5 Hz galvanometer with appropriate shunt resistances for critical damping. System is poorly calibrated. Peak magnification approximately 25.000 at 4 Hz.

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.

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.

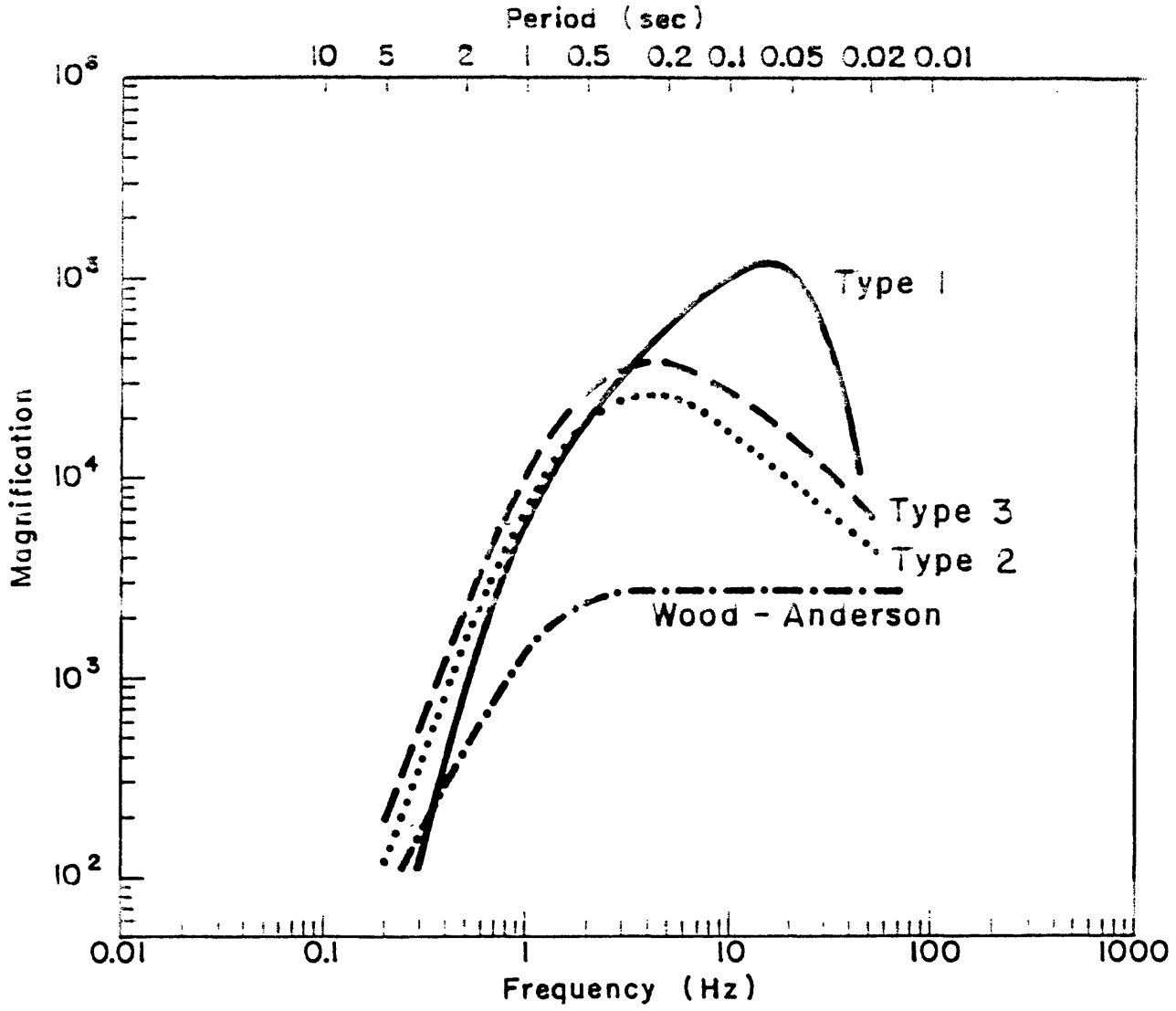

Figure 4. System response curves for the Wood-Anderson torsion seismograph and for the three different types of seismometers used by the Hawaiian Volcano Observatory. Types 2 and 3 are electro-magnetic seismographs recorded optically on photographic paper. Type 1 is the standard OEVE seismometer system 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 frequency of earthquakes, and coda duration in seconds are measured only as a guide to magnitude. In 1986, HVO acquired a VAX 11-750 computer and adopted the CUSP (California Institute of Technology USGS Seismic Processing) routine. Discriminated analog signals are converted to digital form, and detected events are saved in real time. Detected events are demultiplexed, and P-picks are made by the computer, producing a rough location and coda-amplitude (CD) magnitude. Events are examined by an analyst to refine computer P-picks and to time additional P- and S-phases for a preliminary location. Binary CUSP files are tape-archived and translated into ASCII phase files. Locations are then determined, using the program HYPOINVERSE (Klein, 1989)[2]. Events are reworked and rerun, as needed, to produce a final solution. Magnetic tape copies of all arrival times and output summary data are kept at Menlo Park and at 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, as listed below:

VELOCITY (km/sec)	DEPTH (km)
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. The delay models are separated by a circle of radius 34 km, centered at 19°22' N and 155°10' W. Delay model 1 is used for epicenters occurring within a circle of radius 31 km from the center. This region includes Kilauea and its south flank. A combination of the two delay models is used for epicenters that fall in a transition zone that is 6 km wide. Delay model 2 is applied to the rest of the island and offshore earthquakes. (For a detailed description, refer to Klein, 1989.)[2]

Magnitudes for most events are computed using recorded amplitudes on low gain or Wood-Anderson stations. Amplitudes read from other than Wood-Anderson instruments are corrected to an equivalent Wood-Anderson amplitude using the curves of Figure 4 and CAL factors listed in Table 1. Amplitude magnitudes larger than 2.5 are generally based on the Wood-Anderson instruments in Hilo or on Type 2 seismographs at Uwekahuna. A coda-amplitude (CD) magnitude determined by CUSP has also been included. The CD magnitudes were computed using maximum amplitudes and coda decay rates from digitized signals.

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[2] Klein, F.W., 1989, User's guide to HYPOINVERSE: U.S. Geological Survey Open-File Report 89-314, 58 p.

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 as to type[3] 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 in south Hawaii, but nearly all events above magnitude 4.0 are located with limited precision. Data presented in the seismic summary are 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, varying 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 general 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 in Table 4. When the listed coordinates overlap, precedence is given according to Figures 5-8. (4) Table 6 re-lists 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 as follows:

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 5-15 km beneath the summit.
5) Kilauea summit 30 km: earthquakes about 30 km deep beneath the summit region.
6) Kaoiki and southwest rift: earthquakes beneath the southwest rift of Kilauea, western parts of the Koae faults, and adjacent Kaoiki fault system of Mauna Loa.
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 low-frequency signatures near the summit region.
11) Mauna Loa northeast rift: earthquakes beneath the northeast rift zone of Mauna Loa.
12-15) Tremor is separated into four categories: Kilauea--shallow, intermediate, and deep, and Mauna Loa. Depth is inferred on the basis of relative amplitudes on seismographs.

The criteria for Kilauea shallow tremor have been changed to accommodate the ongoing eruption where tremor in the middle east rift zone is continuous. Distinction is 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 STC and KLC are included in Table 3.

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[3] Koyanagi, R. Y., 1982, Procedure for routine analyses and classification of seismic events at the Hawaiian Volcano Observatory, Part I: U.S. Geological Survey Open-File Report 82-625, 32 p.; figs., 59 p. [unpaginated].

Table 3. KILAUEA SUMMIT — KILAUEA FLANK — MAUNA LOA — TREMOR (MINUTES)

DATE 1991	KILAUEA SUMMIT: SHORT PER. CALD.	LONG PER. CALDERA A	LONG PER. CALDERA B	LONG PER. CALDERA C	30 KM	KILAUEA FLANK: KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	MAUNA LOA: SHORT PER.	LONG PER.	NE RIFT	TREMOR (MINUTES) KILAUEA: SHAL.	INT.	DEEP	MAUNA LOA
JAN 1	15	748		2		29	26	4	1						
2	73	1156		39		26	14	4	6	3	3				
3	40	1067		3		18	41	13	6	1	5				
4	20	1005		9		29	41	5	1	3	1				
5	24	1043		26		12	41	6	4	2	1				
6*															
7	10	419		199		5	46	3	2	1	1				
8	17	643		402	1	37	43	12		1	1		33		
9*															
10	18	874		258		33	52	4	1	1			22	3	
11	53	816		151		21	64	4	2		9		25		
12	140	509		262		26	64	3	3					3	
13	3	858		236		25	66	2	2				5		
14	10	793		96		19	41	4	2		5		20		
15	5	903		161		47	41	5	6		4			22	
16	14	275		115		32	51	8		1	1				
17*				56		21	41	6	1	1					4
18*				13		44	45	15	6	2	2				
19*				15		22	42	4	2	1	1				
20*				11		33	50	11	4						
21*				37		27	27	10	1	2				73	
22*	19	1785		22		18	36	7	4						
23	34	2644		18		24	41	9	2	2				28	
24	26	2591		5		22	45	9	8	1	2				
25	29	2443		10		23	56	5	3	1					
26	22	1935		11	2	19	48	4	3	2	3				
27	59	1685		9		13	38	3							
28	40	3037		4		11	37	4							
29	23	5098		9		19	33	5	3	1	2				
30	31	4299		91		12	46	7	4	1	4			4	
31	90	2320		125		28	71	2	4		4				
FEB 1	45	3026		7		15	46	5	2		4				
2	36	3045		13		23	70	11	7	1	2			13	
3	25	2444		33		37	56	9			1				
4	46	1564		37		33	53	5	6	1	2				
5	47	1854		48		37	77	13	3	1	1				
6	33	3033		49		23	59	1	2		1				
7	50	2508		29		35	42	10	3					10	
8	76	2037		4	1	27	101	12	3	2					
9	19	2726		12		35	56	15	5	2	4				
10	55	3186		13		22	57	4	6						
11	43	3909		10		25	49	16	6	1	1			8	
12	38	3655		11		22	59	3	5		3			16	
13	27	1927		7		17	64	5	1	1	3				
14	52	2675		34		15	65	3	4		4				
15	44	1782		8		22	68	5	7	3	7				
16	65	2129		9		15	95	4	8		3				
17	80	1948		15		14	129	5	4	1	3				
18	56	2356		14		37	48	6	2		2				
19	51	1450		35		23	62	4		1					
20	73	1972		38		19	80	6	1					3	
21	66	1907		39		19	81	4	7		2				
22	45	2698		11		18	80	4	7		3				
23	57	1887		34	1	27	84	5	4	1	1				
24	79	1835		46		15	93	3						16	

	KILAUEA SUMMIT				KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)		
DATE 1991	SHORT PER. CALD.	LONG A	PERIOD CALDERA B	C	20 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA SHAL.	INT.	DEEP	MAUNA LOA
FEB25	44	1626	11	5		9	46	1							
26	162	1042		29		14	75	9	2	1					
27	219	775	1	52		31	173	7	1	1					
28	100	305		61	1	23	116	9	4		1				
MAR 1	24	1608		2		24	148	2	6	1					
2	20	1213				26	159	2	1						4
3	55	985		4	1	28	75	7	20	1	2				
4	46	3438		7		24	43	3	30						
5	46	3352		4		27	26	6	26		1			16	
6	39	2209		6		16	26	8	15	2	1				
7	42	1185		25		18	27	1	40		3				
8	29	1250				23	73	7	12	4	2				
9	41	767				28	36	4	13	4	2				
10	48	352		38		24	35	3	2		1				
11	248	234		8		26	53	3	6	7					
12	594	28		12		13	60	1	2	2					
13	160	1035		27		90	41	5	4	1					
14*				7		28	65	4	7	1					
15	30	1614		2		18	36	6	7	3	3				
16	35	1112		4		23	34	2	3	1	2				
17*				1	1	33	35	4	3	3	1	5		13	
18	65	477		50		21	31	1	5	1	2			39	
19	190	91		6		34	39	2	5	1	6				
20	519	19		18	1	29	52	5	6	2	4				
21	113	1139		234		33	123	4	9	1	1			39	
22	38	869		3		14	47	8	5	4	5				
23	56	854		2	1	31	62	6	8	2					
24	39	976		4		38	51	8	4	2					
25	48	1115		12		31	611	12	4	1	1			7	
26	20	63		3		22	1089	10	5	3	4				
27	26	150		18		30	176	9	6	4	1				
28	27	603		14		29	158	11	12		1				
29	27	231		11		13	133	8	10	1					
30	30	322		15		23	71	3	4		1			4	
31	34	233		13		22	80	6	5	1	2				
APR 1	20	171		32		24	50	8	5		1	32		36	
2	39	44		88		33	61	4	5	1	1			36	
3	45	69		53		30	64	5	3		3				
4	51	129		55		22	52	11	3		1				
5	54	40		36		19	47	2			3			3	
6	42	245		47		29	34	4			7				
7	109	211		45		24	60	10	10	1	5			5	
8	113	204		21		27	92	9	1	1	8	6		11	
9	217	128		35		29	64	7	3	1	2			4	
10	110	235		15		26	52	2	11	3	1				
11	90	165		3		21	52	8	8	3	4				
12	47	261		3		29	49	5	6	4	1				
13	42	101		1	1	37	58	13	8	6	3				
14	164	26		46	1	27	100	23	18	2	4				
15	92	28		22		38	86	2	3	5					
16	93	27		7		16	53	11	8						
17	64	84		34		26	50	6	8	1					
18	61	35		4		20	44	9	2	4					
19	52	161		3		13	77	5	2		1				
20	77	194				35	61	8	3	2					

	KILAUEA SUMMIT				KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)		
DATE 1991	SHORT PER. CALD.	LONG PER. CALDERA A	PERIOD CALDERA B	PERIOD CALDERA C	10 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA SHAL.	KILAUEA INT.	KILAUEA DEEP	MAUNA LOA
APR21	47	123		5		10	55	9	4		3				
22	54	158		4		42	41	2	5	3	4				
23*															
24	53	207		16		26	44	11	3		2				
25	103	132		217		36	60	9	5		2				
26	412	59		105		22	47	9	2						
27	107	157		70		21	39	4	1	4	2				
28	57	163		69		22	32	4	2	1	1				
29	44	300		17		27	55	9	6	2	5				
30	49	201		10		16	44	11	5	2	1		2		
MAY 1	51	113		19		26	52	9	5	2	7			17	
2	38	128		21		24	42	5	5	1	2		2	9	
3	30	79				27	54	4	11	3	4			38	
4	132	181		2		21	60	7	3	2	3				
5	39	127		5		35	50	4	1					9	
6	42	95		2		12	42	5						16	
7	49	90		2		23	59	7	2		2				
8	79	36		5		28	56	10	7	1	2			11	
9	427	8		4		35	50	8	4	1	2				
10	69	105		4		25	30	4	7	1	2				
11	43	94		7		21	61	6	4	1	3				
12	36	32		58		24	45	6	4		1				
13	41	39		18		29	36	8	9	2	5				
14	40	27				32	71	13	11		3				
15	51	14		3		34	57	10	6	2	1			30	
16	76	22		12		21	46	3	8	1	2				
17	43	26		26		35	46	3	9	2				5	
18	48	35		13		31	50	6	1		3			6	
19	33	29		36		26	55	9	6						
20	63	26		43		31	50	9	4	1	1				
21	69	16		45		22	54	7	4	3					
22	76	78		25		20	63	3	12	2	6				
23	97	28		22		33	32	3	7	1				38	
24	70	35		7		23	40	5	11	4	1			46	
25	95	103		31		18	73	12	12	2	1				
26	108	106		79		25	60	8	6	3					4
27	136	8		59		39	55	4	5		1				
28	169	9		35		19	58	8	9	1	2				
29	91	8		24		25	60	10	5						
30	103	6		14		21	65	17	10	4					
31	360	20		19	2	37	47	7	7	3	1				
JUN 1	416	14		37	5	37	33	20	11	1	4				
2	110	3		61		33	80	9	6	1	1				
3	65	7		159		41	69	11	7	2	1				
4	51	9		59		37	62	13	3	6	3			5	
5	70	13		24		38	54	8	6	2	3				
6	59	4		13		26	58	18	7	4	4				
7	79	11		8		33	70	5	2	3	2				
8	76	4		8		33	75	15	4	1					
9	62	12		6		24	64	10	6		1				
10	121	55		8		31	43	13	8	2				5	
11	85	7		13		28	46	16	8	3	2				
12	64	38				17	48	11	7	3	1			4	
13	172	11		16		22	39	15	6	2	3				
14	169	10		13		15	25	16	3	3	1				

	KILAUEA SUMMIT					KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)		
	SHORT	LONG	PERIOD		10	KAO.	UP.	LOW.	SHORT	LONG	NE	KILAUEA		MAUNA
DATE	PER.	CALDERA			KM	& SW	EAST	EAST	PER.	PER.	RIFT			LOA
1991	CALD.	A	B	C		RIFT	RIFT	RIFT				SHAL.	INT.	DEEP
JUN15	56	61		12	2	24	85	12	9	4				
16	36	12		10		18	59	16	2		1			
17	71	7		5		28	68	21	11	2	1			
18	68	18		1		33	66	9	4	1	4			
19	49	9			2	25	26	11	2	1	3			
20	22	46		17		22	63	13	4	6	2			26
21	34	47		5		22	31	14	5	1	1			
22	19	42	69	18	2	24	66	16	6		1			6
23	33	44	188	60	2	20	51	11	9	3				
24	12	69	58	18		21	41	7	10	1	1			
25	14	30	162	14		74	42	8	3	3	2			
26	14	43	269	4		25	76	7	5	1	1			
27	27	23	185	6		23	65	10	8	2	1			
28	16	31	28	6		43	65	4	6	1	1			
29	21	49	63	9	1	36	111	6	7		2			2
30	13	54	95	10		31	109	12	8	4	1			2
JUL 1	12	65	60	8		22	68	10	8	1	1			
2	12	49	32	11		27	62	12	9	2				32
3	12	32	201	103		25	64	14	13	5	2			
4	12	42	109	250		29	55	12	7	3	1			9
5	41	51	184	119		29	49	11	8	1	3			
6	36	36	33	55		28	50	10	9		1			
7	20	56	2	16		47	83	11	7	1	3			24
8	38	73	1	7		28	57	8	4	2	2			11
9	15	51	7	9		31	53	13	9	2	4	4		
10	34	71	30	6		13	68	8	8		1			
11	18	45	15	61		20	56	7	3	3	1	12		
12	24	44	34	7		27	37	10	11	2	1			
13	406	142	2	4		45	49	8	168	437	3			3 51
14*														
15	16	39	27	8		24	55	11	27	1	2			7
16	7	22	107	19		29	40	10	53	6	2			
17	13	32	69	18		26	39	16	42	2	2			4
18	3	22	73	16		12	46	13	18	1	3			
19	10	19	39	15		26	42	24	12		1			6
20	14	28	4	3		25	57	52	7	2	1			9
21	18	37	3	10		26	52	57	13	1	3			9
22	12	57	3	19	1	19	67	39	14	1	2			
23	12	43	1	21		20	79	22	11	6				
24	12	43		29		27	55	21	10	1				18
25	8	23	36	29		30	30	12	4	1		25		3
26	43	15	15	20		16	27	3	2	1	2			
27	37	19	6	9	1	31	54	3	7	3	2			41
28	5	40		13		33	50	6	6	3	1			
29	12	32		5		33	49	3	13		1			
30	29	47	3	19		39	42	7	9	3	6			
31*														
AUG 1*														
2	23	73	1	3		23	38	10	9	1	2			
3	13	71		20		40	50	4	5					
4	14	29	5	21		29	28	3	14		2			15
5	14	41	1	5		22	49	4	16	1				
6	13	53	18	29		18	51	3	3	1	2			
7	3	25	18	10		17	46	4	6		1			
8	10	41	1	10		26	31	9	15	4				

	KILAUEA SUMMIT					KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)	
	SHORT	LONG	PERIOD		10	KAO.	UP.	LOW.	SHORT	LONG	NE	KILAUEA	MAUNA
DATE	PER.		CALDERA		KM	& SW	EAST	EAST	PER.	PER.	RIFT		LOA
1991	CALD.	A	B	C		RIFT	RIFT	RIFT				SHAL. INT. DEEP	
AUG 9*	4	31		9		15	35	6		1			
10*	4	32	30	14		42	33	6					31
11	3	48	44	7	1	28	50	13	4		2	3	
12	26	47	3	10		25	54	4	7	1	1		
13	11	58	11	7		31	75	7	4	2	2		
14	7	45		9		36	86	13	11				15
15	5	98		13		24	89	4	5	2	3		
16*													
17	50	45	4	9		19	57	7	4	2	2		8
18*													
19*													
20*													
21	280	86		1		30	118	7	9	1	1		16
22	20	48	1	3		21	101	5	3		5		2
23	12	111				30	83	9	4	5	1		36 2
24	8	95		1		21	50	4	5		1		
25	21	70		1		28	66	3	5				
26	19	66		4		16	51	5	5		1		
27*	14	71		2		24	58	4	9	5	2		
28	12	59		17		24	70	6	12	3	3		
29	3	41		14		17	44	8	7		3		3
30	3	34		1		32	49	7	4		1		39
31	3	45		5	3	23	53	8	7	2			
SEP 1	9	30		5	1	34	62	7	3	3	1		
2	6	43		4		23	34	10	7	1	2		
3	4	53		11		35	72	13	4	3	2		
4	6	68		38		46	66	9	5	1	6		
5	4	78	317	4		34	58	7	7	4	3		
6	24	88	92	15		14	57	5	2	2	1		
7	40	94	32	5		14	60	8	4	4			
8	7	38	1	5		26	37	7	1	3	2		
9	4	48	2	2		36	52	5	1		1		2
10	6	49		3		37	75	7	9				41
11	12	61		15		34	64	11	6	2	1		
12	31	63		1		21	55	4	3	3			
13	35	112		4		27	76	14	2	2	1		
14	22	95		1		39	115	12	4	1			
15	25	69		2		35	96	3	9	1	1		
16	8	69			1	22	36	3	10		8		29
17	15	87		1		17	68	11	14	4	4		
18	9	30				15	72	7	8	1	4		
19	19	181		1		34	115	8	25	1	2		
20	7	53		9		36	77	11	11	1	2		
21	6	54		42		29	76	8	17	10	1		
22	4	54		16		27	70	10	33	2	2		
23	2	49		48		35	74	6	13	1	2		2
24	7	35		1		36	66	3	6	4	5		
25	15	55		1		28	70	12	17	1	4		
26	57	100		1		31	41	15	10	1	4		
27	27	103		18		23	93	14	5	1			
28	22	36		1		26	63	7	6	1	2		
29	19	43		1	1	35	72	31	18	1	1		49
30	25	61			1	38	128	22	7		2		
OCT 1	137	89		3		29	100	3	9	3	4		
2	36	80				29	75	11	9	2			2

	KILAUEA SUMMIT					KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)			
	SHORT	LONG	PERIOD		10	MAO.	UP.	LOW.	SHORT	LONG	NE	KILAUEA			MAUNA
DATE	PER.	PER.	CALDERA		KM	& SW	EAST	EAST	PER.	PER.	RIFT				LOA
1991	CALD.	A	B	C		RIFT	RIFT	RIFT				SHAL.	INT.	DEEP	
OCT 3	19	84	3			29	68	15	2	1	1				
4	1	45	1			74	26		5	2	1		4		
5	19	66				29	60	31	6	1					
6	12	45	2			43	85	22	8		2				
7	8	54	3		2	18	56	14	6	2	4				
8	20	77		1		10	80	9	4	1				20	
9	17	116	1	1		24	65	10	4	2					
10	27	157	3	14		21	61	18	9	3					7
11	10	85		6		26	56	14	5	2	3			8	
12	27	63		1		27	69	9	7	1	5				
13	30	68		2		35	69	13	6	3				5	17
14	157	94		3		32	62	18	9	4	1				
15	74	67		2		30	67	7	12	1	2				
16	28	65		3		45	77	12	11	3	3			5	
17	18	34				29	73	6	11	1	3			30	
18	33	41				27	67	8	3	4	1			8	
19	46	35	1	2		26	73	11	3	2	2			28	
20	40	65		2		22	59	11	11		1			107	
21	9	36	2	3		27	63	11	10	1				6	
22	20	54	4	1		36	83	8	6	1	1				
23	24	79		1		33	84	3	5	2				5	
24	31	17		1		51	68	12	6	2					
25	25	74	1			34	63	10	5	3	2				
26	33	97	2			32	81	6	3		3		2		2
27	19	95	6			30	83	5	5	4	13		9	32	
28	56	174	8	1	1	32	58	7	6	2					
29	44	63		7		30	107	14	7	2	2			5	
30	18	44				57	93	2	3	1	5				
31	53	31		3		24	84	7	1	1	2			3	
NOV 1	105	24		10		25	121	4	3	3					
2	41	33		2		26	80	8	5	1	1				
3	79	52		3	1	20	159	13	3	2	2			2	
4	20	36	7	3		26	94	3	2	5	3		12		
5	25	45	1			29	88	5		4	2			53	
6	18	66	3	3		27	121	10	2	1	2				
7	22	43	1	2		23	311	4	4	1	1	60			
8	39	2		1		24	117	8	2	3		1440			
9	37	26		3		38	11		1		1	1440			
10	21			7		24	144	10	1	2	1	1440			
11	16			1		29	39	8	6		1	1440			
12	6	9		1		31	48	20	3	3	1	1440			
13	7	1		1		15	68	13			5	1440			
14	10	7		1	1	23	49	11	11	2	2	1440			
15	11	7		1		25	36	2	3	1	1	1440			
16	11	1				16	47	7	5	1		1440			
17	10	4		1		22	67	9	8		2	1440			
18	5	5		4		15	38	5	12	3		1440		27	
19	3	14		11		18	47	15	12	1	1				
20	1	13		6		17	57	6	42		1				
21	3	55	3			36	118	7	4		1				
22	6	20	8	8	1	35	64	3		1					
23	7	14	11	2		25	53	10	2	2	5				
24	6	31	86	2		16	38	12	1	3	1				
25	1	17	86	7		32	48	20	3	1	4				
26	6	19	65	6		35	41	6	6	2	1				

	KILAUEA SUMMIT					KILAUEA FLANK			MAUNA LOA			TREMOR (MINUTES)		
DATE 1991	SHORT PER. CALD.	LONG PER. CALDERA A	B	C	10 KM	KAO. & SW RIFT	JP. EAST RIFT	LOW. EAST RIFT	SHORT PER.	LONG PER.	NE RIFT	KILAUEA SHAL.	INT.	DEEP	MAUNA LOA
NOV27	5	15	22	70		31	56	8	10	3	5				
28	7	18	10	32		21	44	12	8	1	2				
29	18	20		1		19	53	8	2						
30	18	48	2	1		13	40	10	2	1	1				
DEC 1	10	50		6		15	37	5	3	1	4				
2	5	53		23		19	32	9	3	2	3		5		
3	19	58		2		16	36	11	3		3				
4	12	56		4		44	54	9	3	1	3		5		2
5	9	46		3		32	55	5	15		2				
6	21	69	3	6		22	45	6	2		1				
7		72	7	31	1	11	55	7	5	1	3				
8	13	79	1	43	1	17	40	8	4		1				
9	7	42		29		23	51	6	8		2				
10	3	47		49		33	39	14	5	1	4				
11	8	29		22	1	17	43	7	4	5	2		35		
12	6	62		31		20	45	9	9		3		5		
13	7	43		60		12	41	11	7	2	1		13		
14	9	31		56		22	60	7	3		1				
15	8	75	4	47		16	30	11			2				
16	12	79		32		22	52	8	7	1	3				
17	12	37		5	1	23	48	8	2	1	2				
18	26	34		2		22	58			1					
19	19	84	3	13		16	42	6		1	1		4		
20	54	23	3	14	1	9	52		2	1	3				
21	60	41		4		18	37	4	2	5	3		74		
22	16	87		25		42	45	14	3	9	6				
23	11	47		19		44	51	9	5	9	5		2		
24	30	43		4		10	58	1	1	3	2		2		
25	7	44		3		30	65	5	9	6			28		
26	19	92		1		23	31	5	5	2			6		
27	16	107	1			16	59	3	6	1	3				
28	12	87	1	5		23	44	7	9						
29	15	132	2	16		16	48	7	2		1				
30	13	147	2	8		19	35	11	6	2	3				
31	10	329	1			11	28	18		14	4				

*Data incomplete - station(s) or recorder not in operation.

Table 4. Names and coordinates of regions used for classifying earthquakes.

All earthquakes locate in one of the following groups, identified by a numerical class or three-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 - Koae 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 southwest rifts of Kilauea and Mauna Loa (0-13 km)
17 GLN - Glenwood (0-13 km)
18 SWR - Southwest 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 southwest 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, everywnere else

Table 4 (continued). The latitude and longitude limits of the regions are given below. When the coordinates overlap, precedence is given as in the maps.

No.	Code	N. Lat.	S. Lat.	W. Lon.	E. Lon.
1	SNC	19 28.0	19 24.5	155 19.0	155 14.0
2	SSC	19 24.5	19 22.0	155 19.0	155 16.5
3	SEC	19 24.5	19 22.0	155 16.5	155 14.0
4	SER	19 26.0	19 20.5	155 14.0	155 07.2
5	SME	19 26.0	-------	155 07.2	155 00.0
6	KOA	19 22.0	19 20.5	155 17.0	155 14.0
7	SSF	-------	19 10.0	155 17.0	155 00.0
8	SLE	19 32.0	19 16.0	155 00.0	154 40.0
9	SF1	19 22.0	19 10.0	155 17.0	155 14.5
10	SF2	19 26.0	19 10.0	155 14.5	155 12.3
11	SF3	19 26.0	19 10.0	155 12.3	155 09.1
12	SF4	19 26.0	19 10.0	155 09.1	155 05.3
13	SF5	19 26.0	19 10.0	155 05.3	155 00.0
14	LER	19 32.0	19 16.0	155 00.0	154 40.0
15	MLO	19 35.0	19 19.0	155 35.0	155 19.0
16	LSW	19 19.0	18 40.0	155 43.0	155 25.0
17	GLN	19 35.0	19 26.0	155 19.0	155 00.0
18	SWR	19 22.0	19 10.0	155 25.0	155 17.0
19	INT	19 28.0	19 22.0	155 19.0	155 14.0
20	KAO	19 30.0	19 19.0	155 32.0	155 19.0
21	DEP	19 35.0	19 10.0	155 25.0	155 00.0
22	DLS	19 19.0	18 40.0	155 43.0	155 25.0
23	DML	19 35.0	19 19.0	155 35.0	155 19.0
24	LOI	19 10.0	18 40.0	155 25.0	155 00.0
25	KON	19 39.0	19 00.0	156 20.0	155 43.0
26	HUA	19 55.0	19 39.0	156 20.0	155 43.0
27	KOH	20 25.0	19 55.0	156 20.0	155 34.0
28	KEA	20 25.0	19 35.0	155 34.0	154 40.0
29	HIL	19 47.0	19 32.0	155 09.0	154 40.0

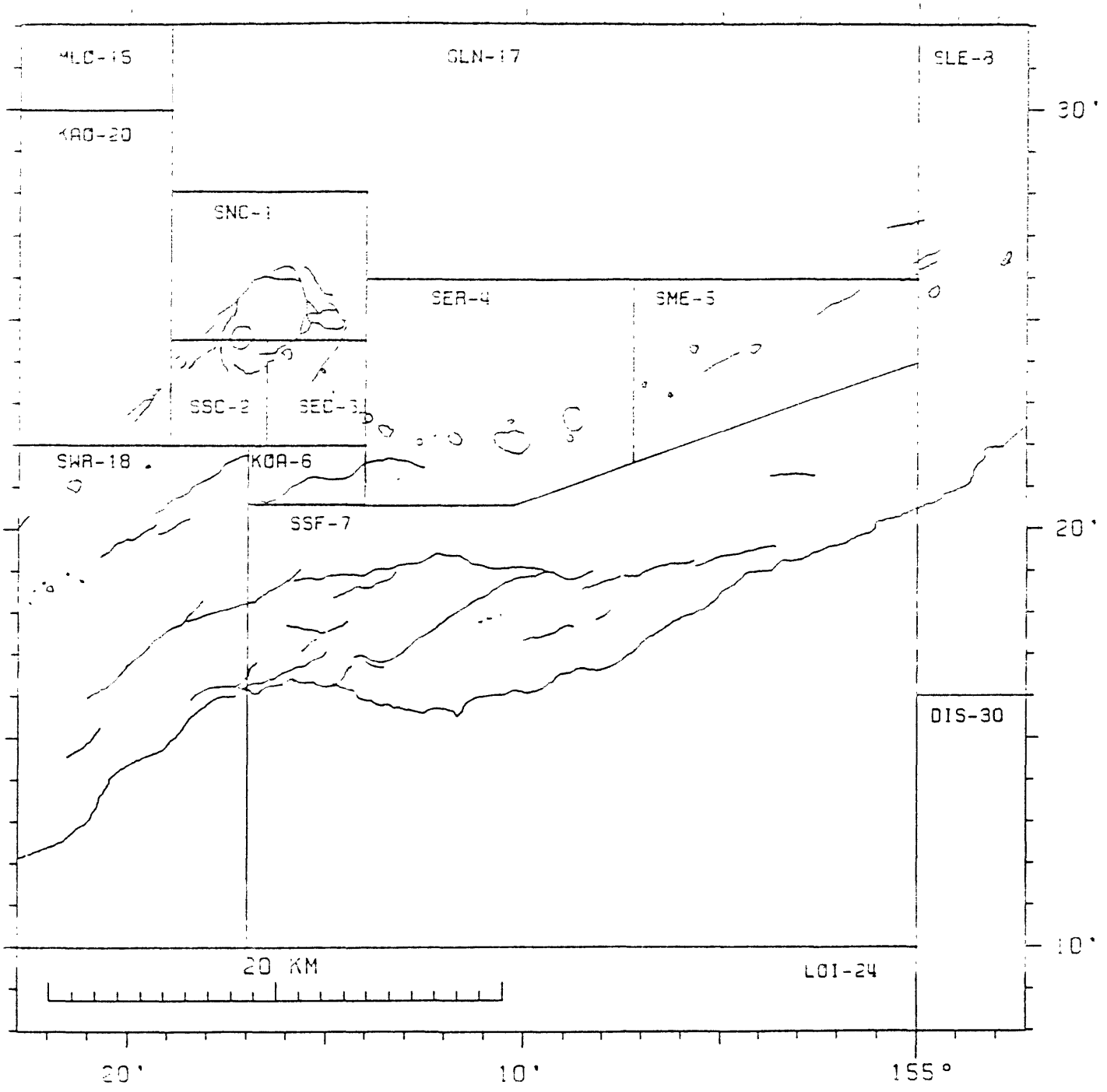

Figure 5. Earthquake classification, shallow (0-5 km deep), for Kilauea and the east flank of Mauna Loa.

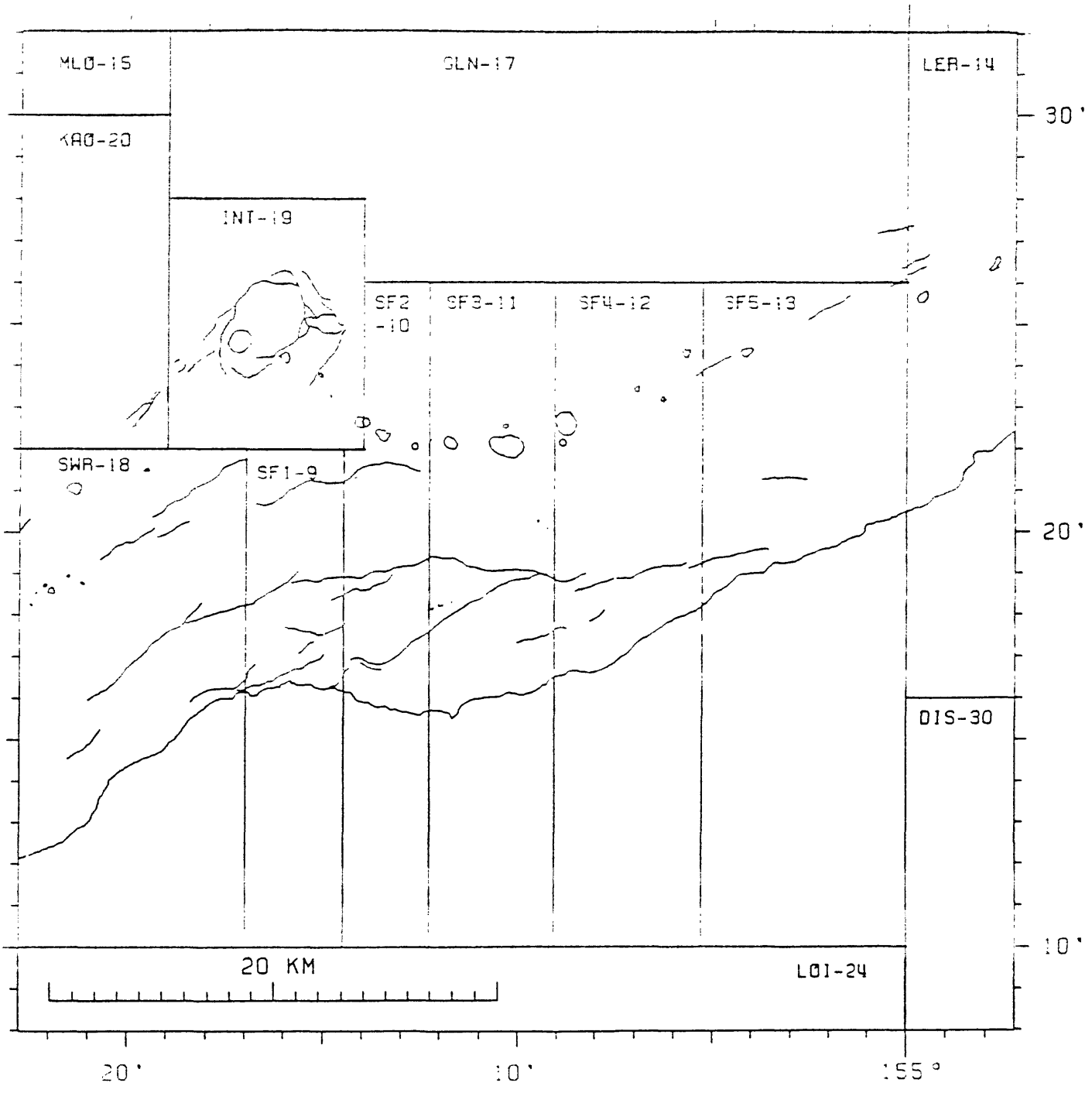

Figure 6. Earthquake classification, intermediate (5.1-13 km deep), for Kilauea and the east flank of Mauna Loa.

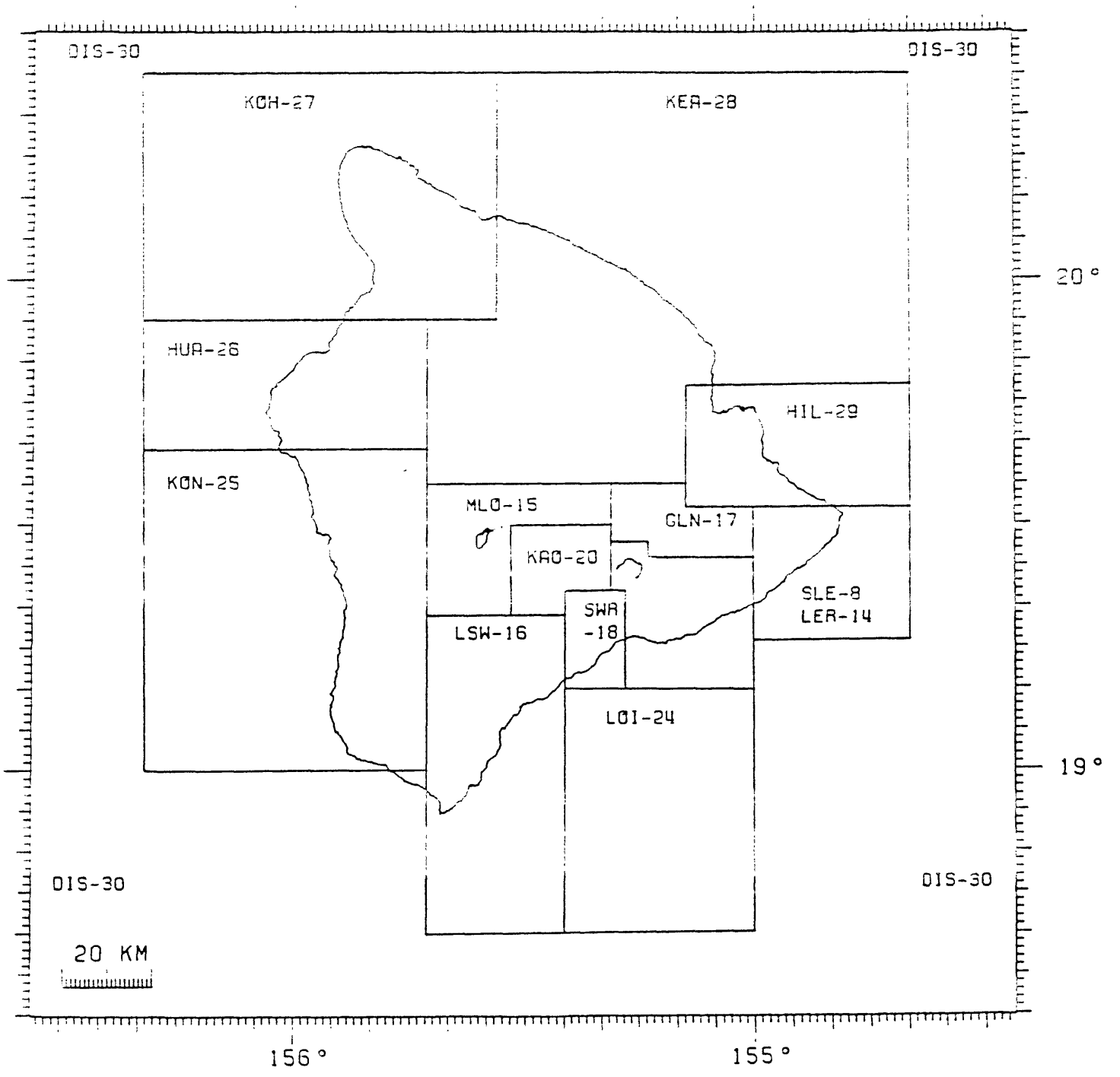

Figure 7. Earthquake classification, crustal (0-13 km deep), for the Island of Hawaii.

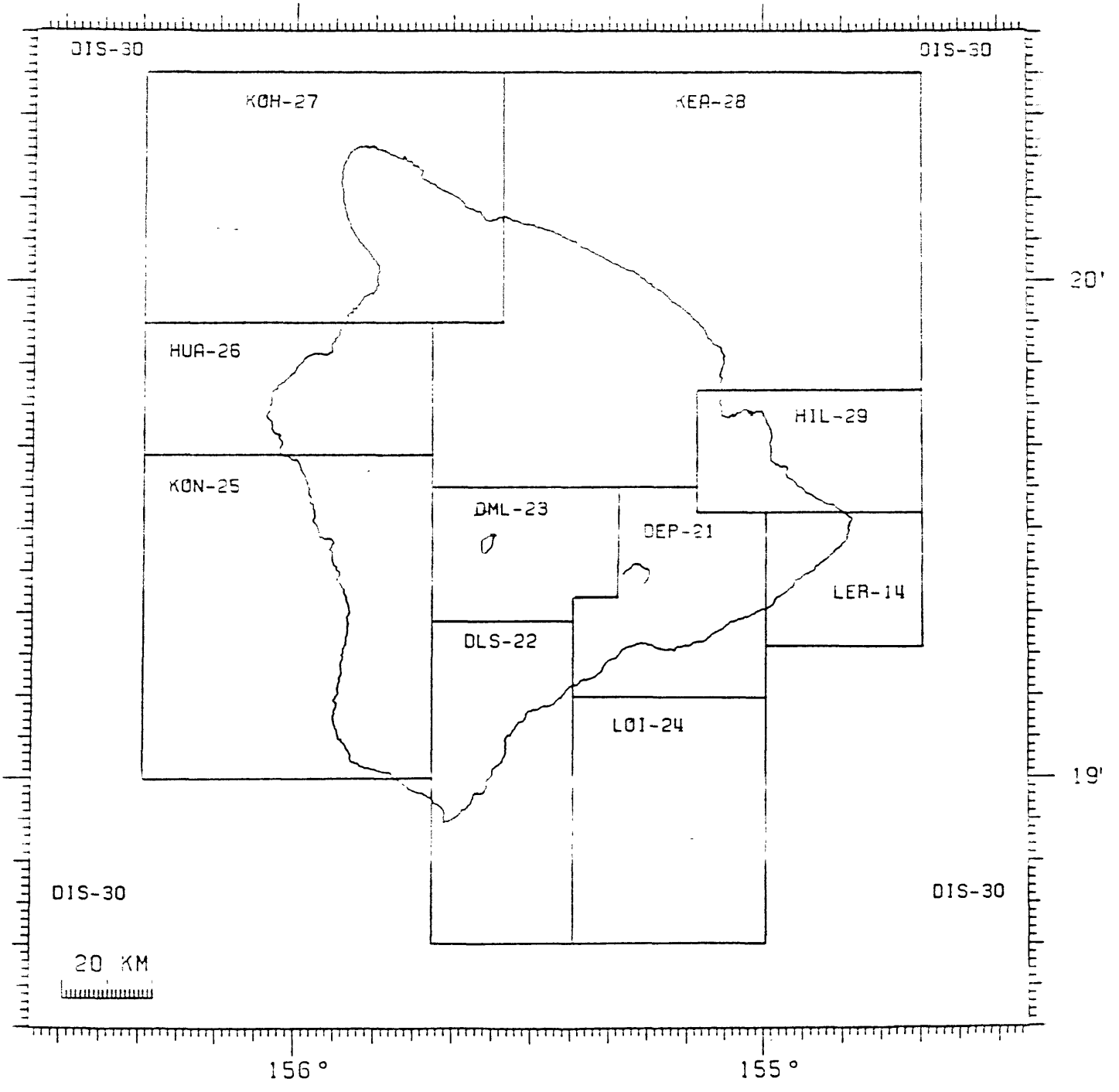

Figure 8. Earthquake classification, deep (greater than 13 km deep), for the Island of Hawaii.

Figure 9. 1991 Earthquake locations, Hawaiian Islands,
0–60 km depth, M>=3.5.

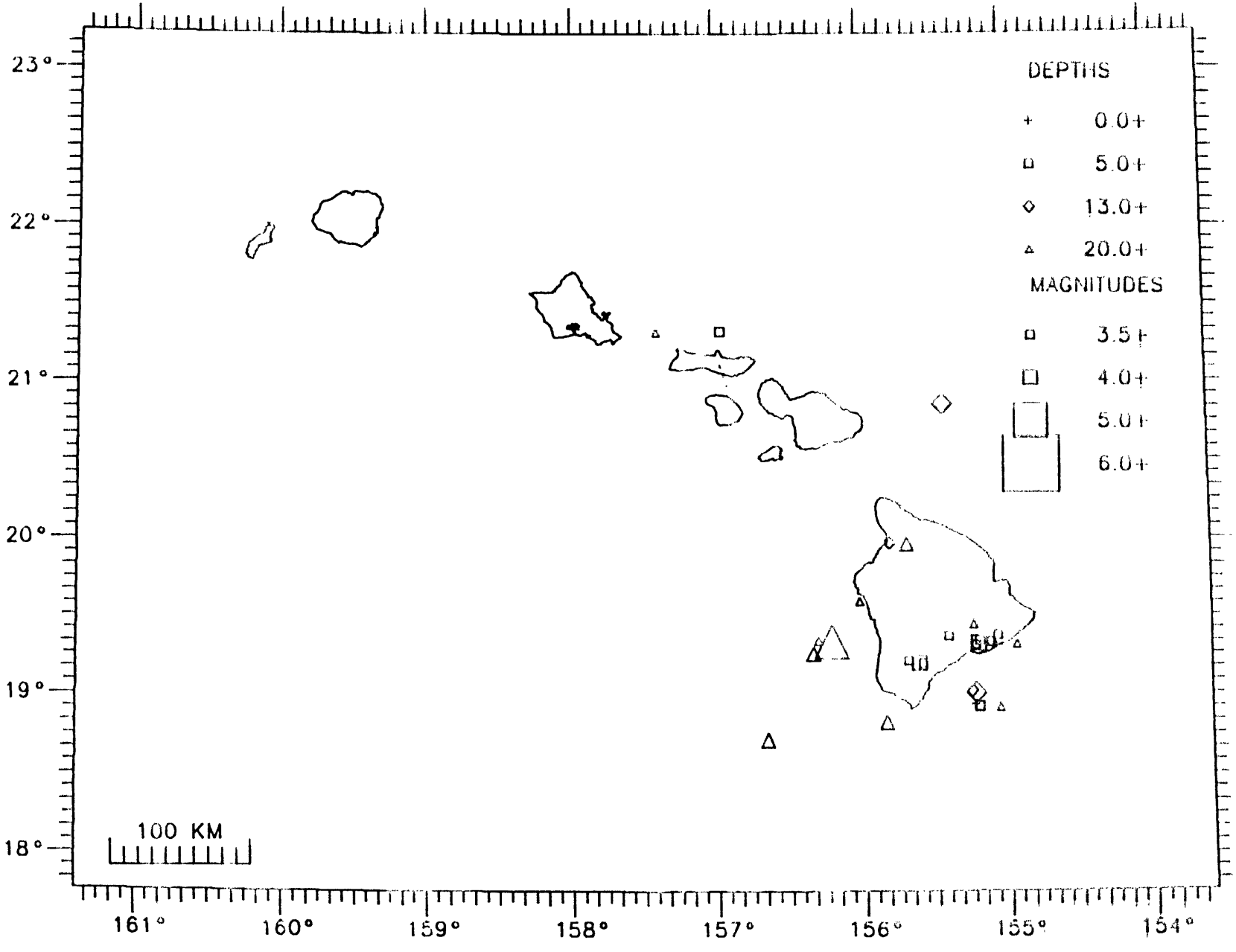

Figure 10. 1991 Earthquake locations, Hawaii Island,
0–60 km depth, M>=3.0.

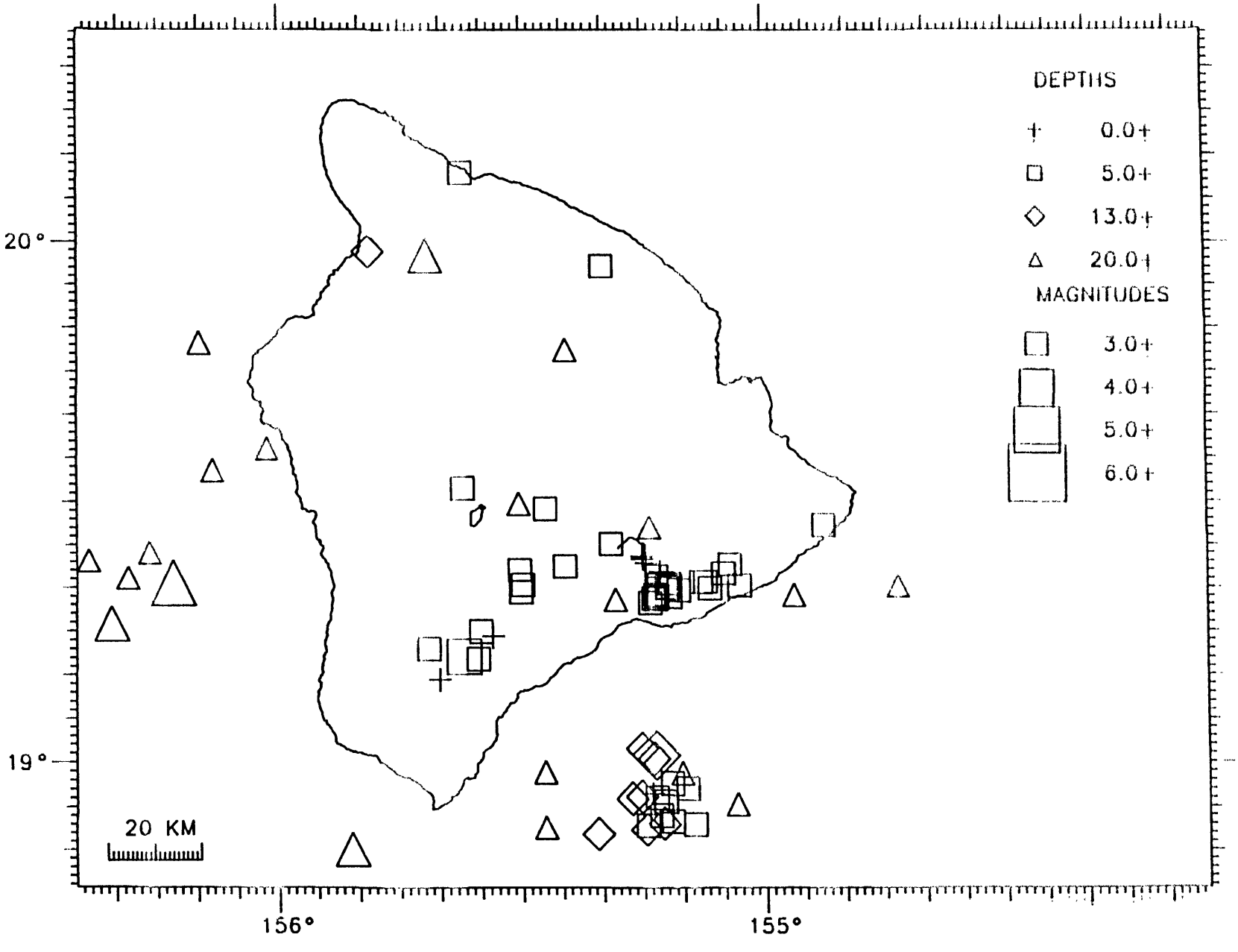

Figure 11. 1991 Earthquake locations, Hawaii Island, shallow (0–5.0 km depth), M>=2.0.

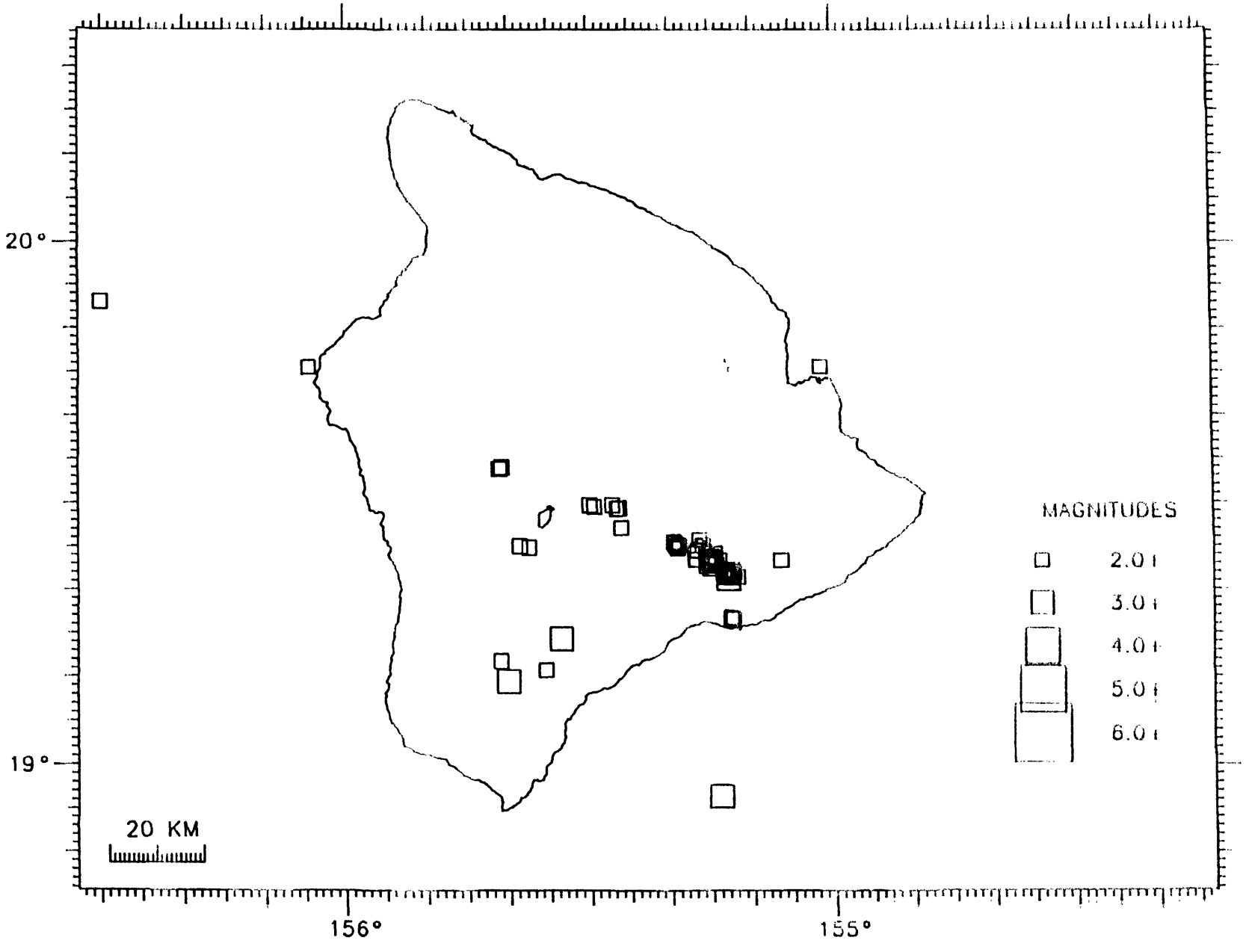

Figure 12. 1991 Earthquake locations, Hawaii Island, intermediate (5.1–13.0 km depth), M>=2.0.

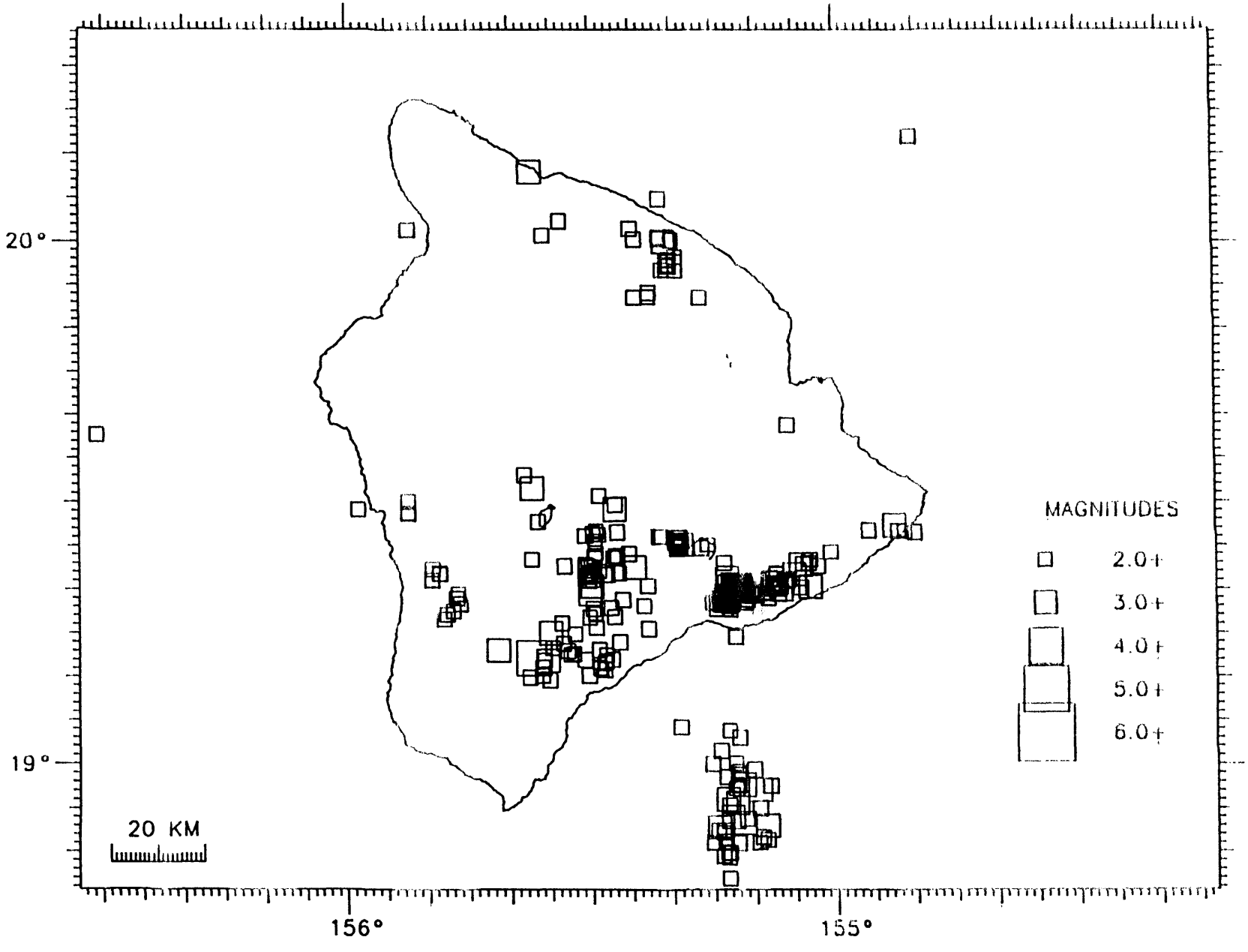

Figure 13. 1991 Earthquake locations, Hawaii Island, deep (13.1–60.0 km depth), M>=2.0.

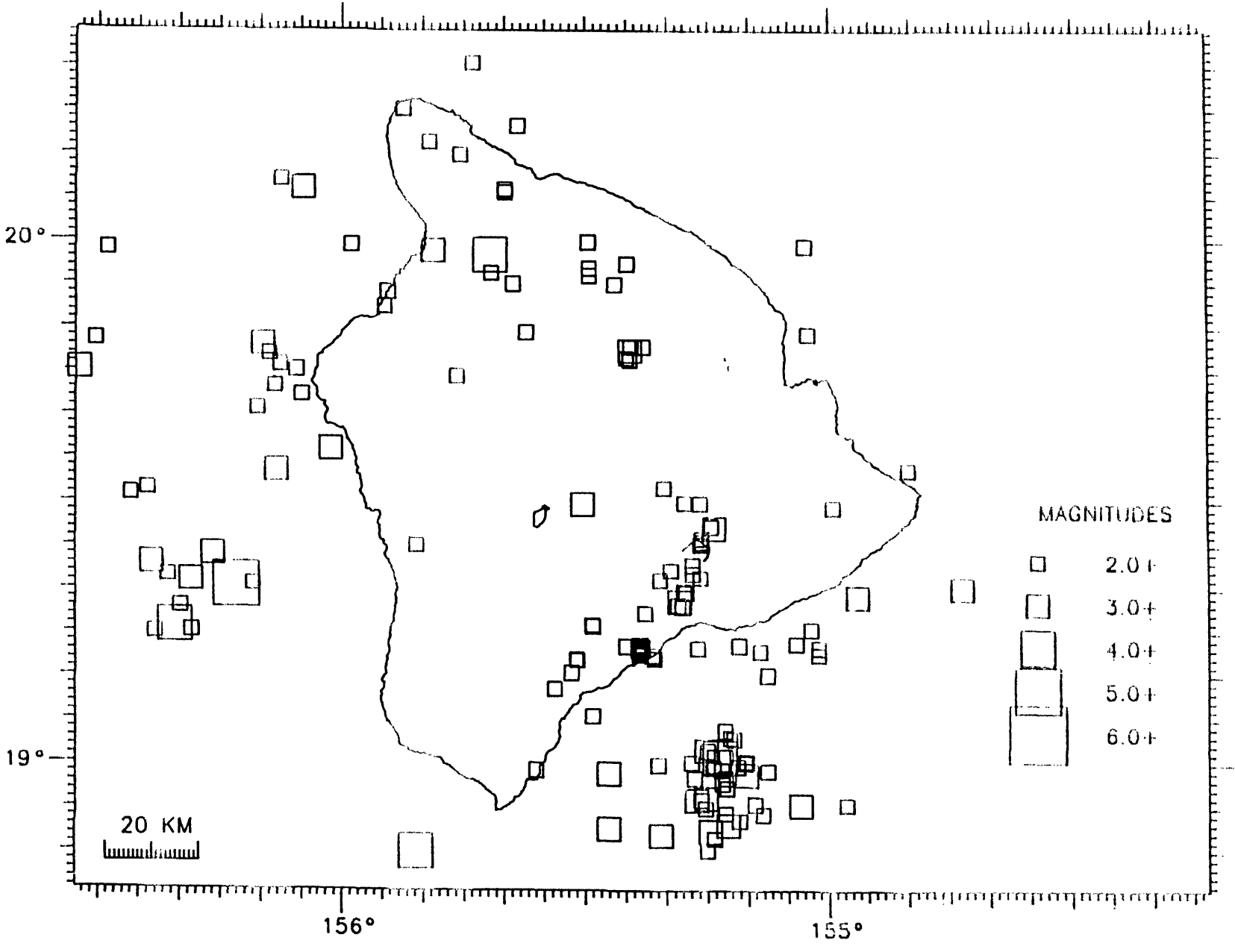

Figure 14. 1991 Earthquake locations, Kilauea summit, shallow (0–5.0 km depth), M>=1.0.

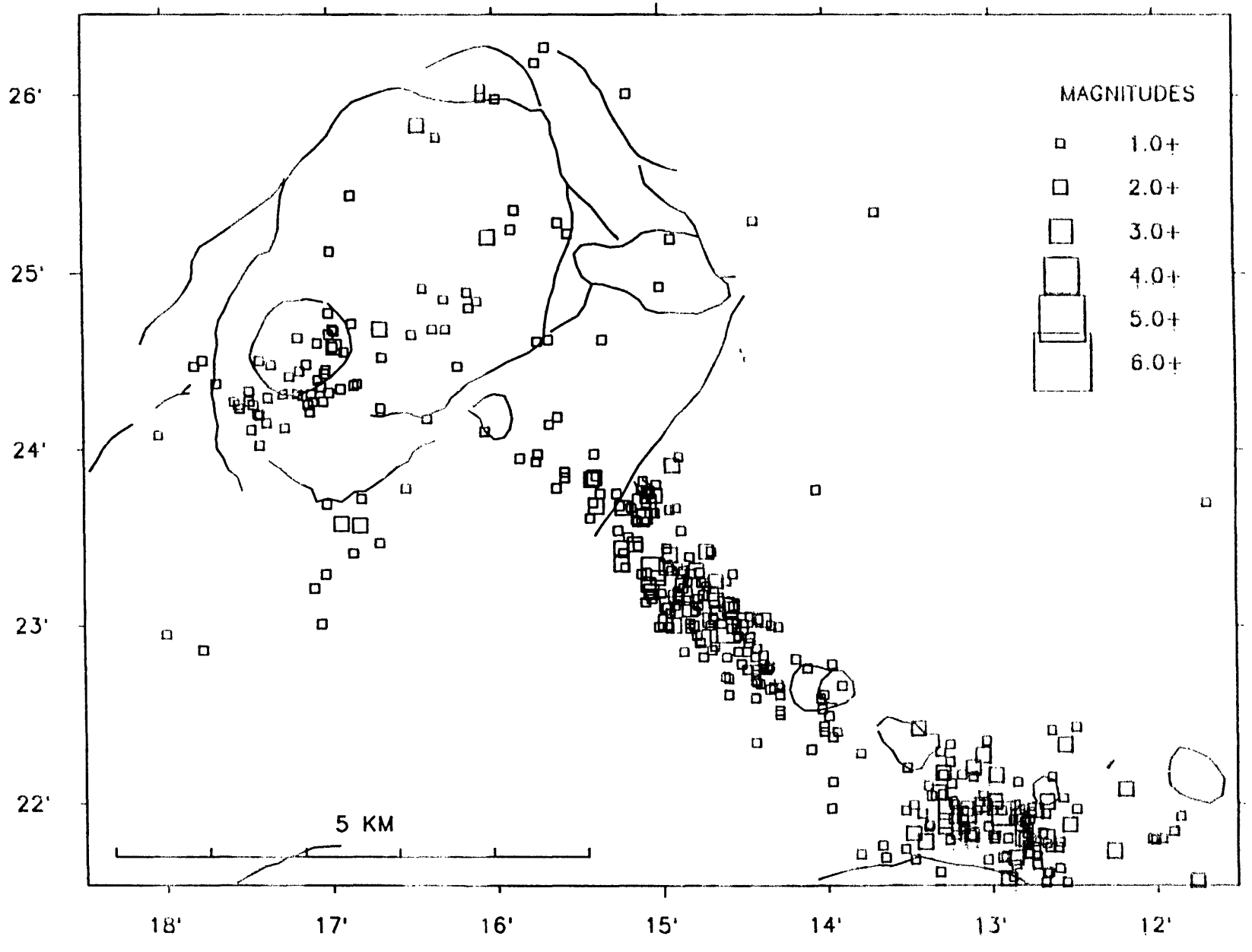

Figure 15. 1991 Earthquake locations, Kilauea summit, intermediate (5.1–13.0 km depth), M>=1.0.

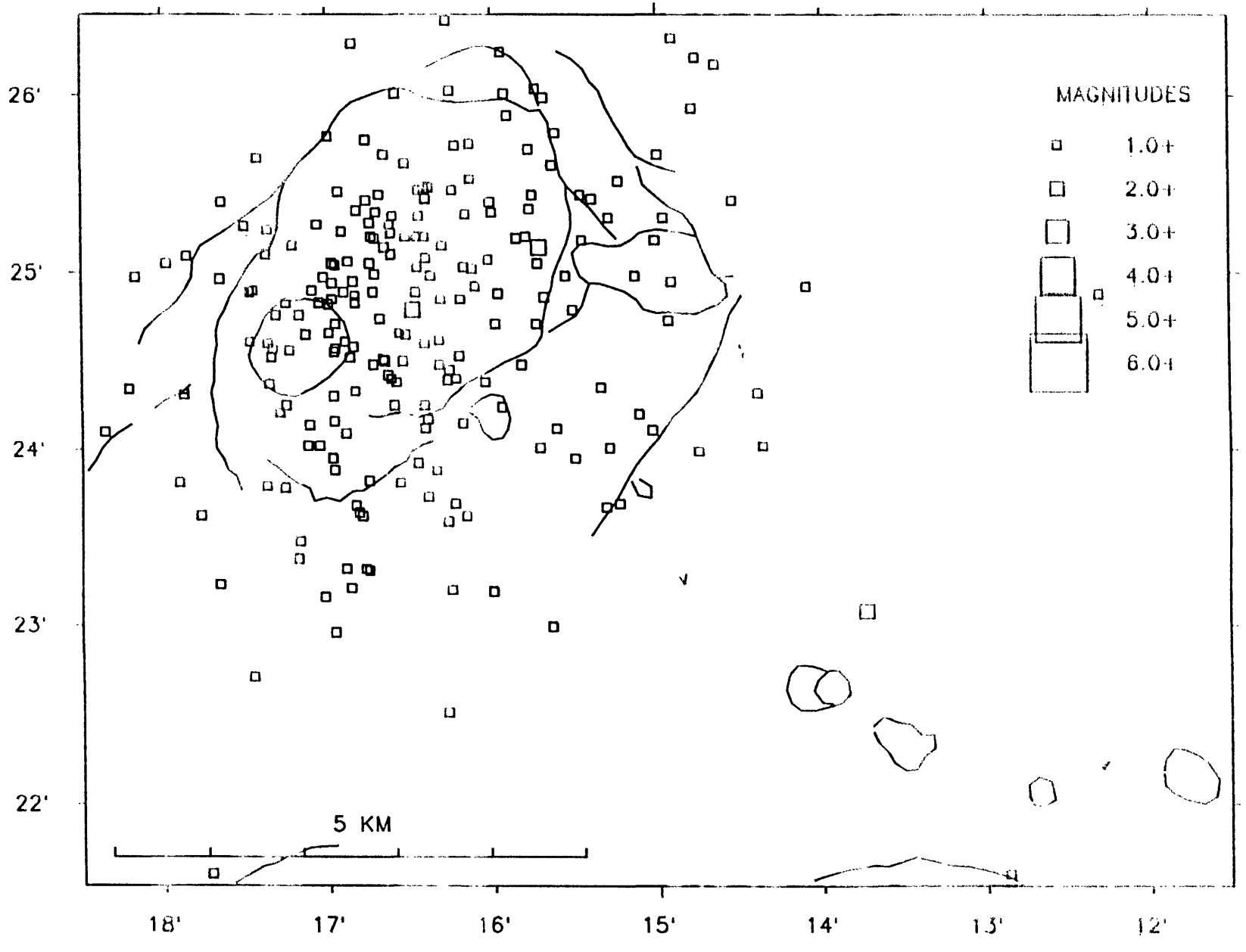

Figure 16. 1991 Earthquake locations, Kilauea summit, deep (13.1–60.0 km depth), M>=1.0.

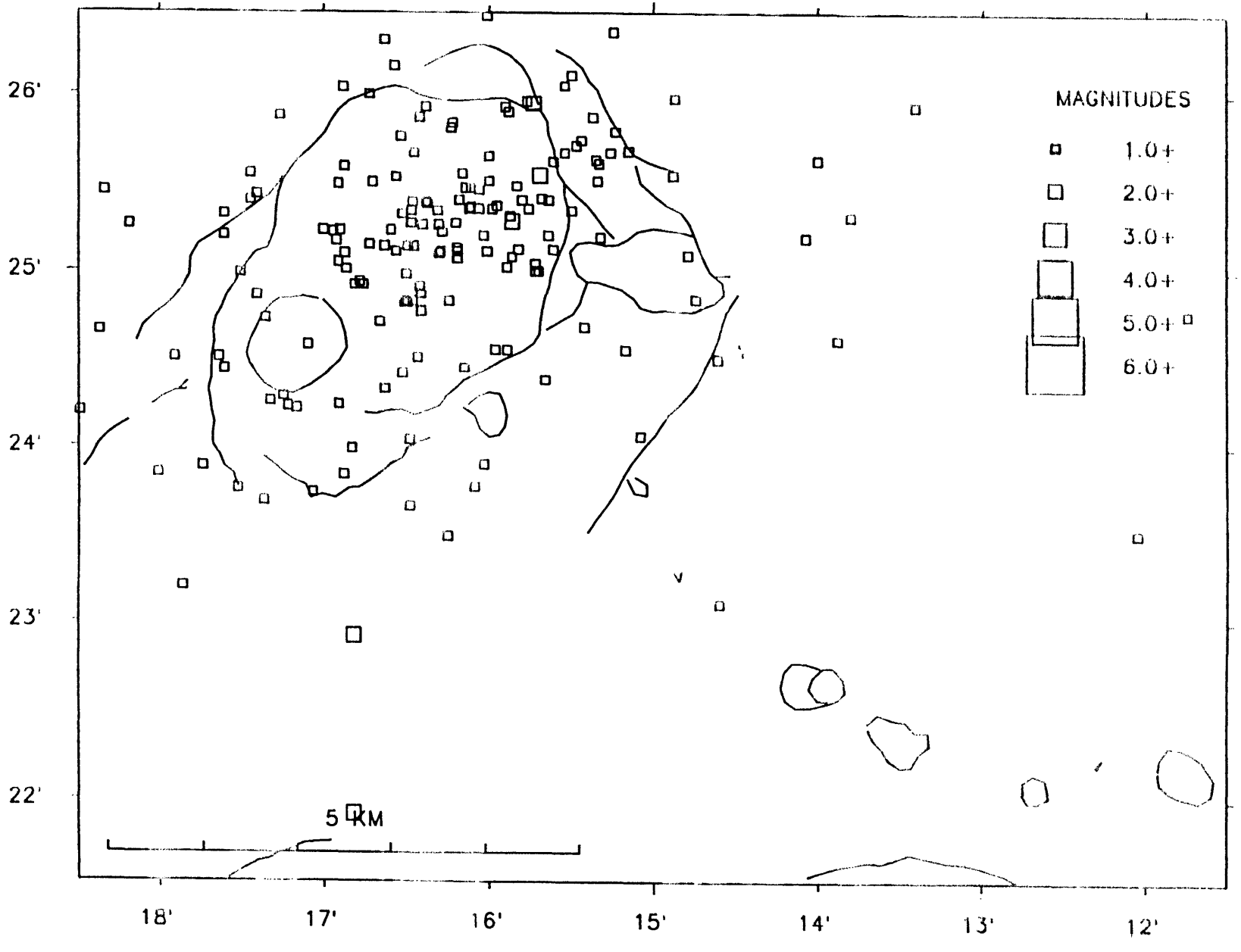

Figure 17. 1991 Earthquake locations, Kilauea south flank, shallow (0–5.0 km depth), M>=2.0.

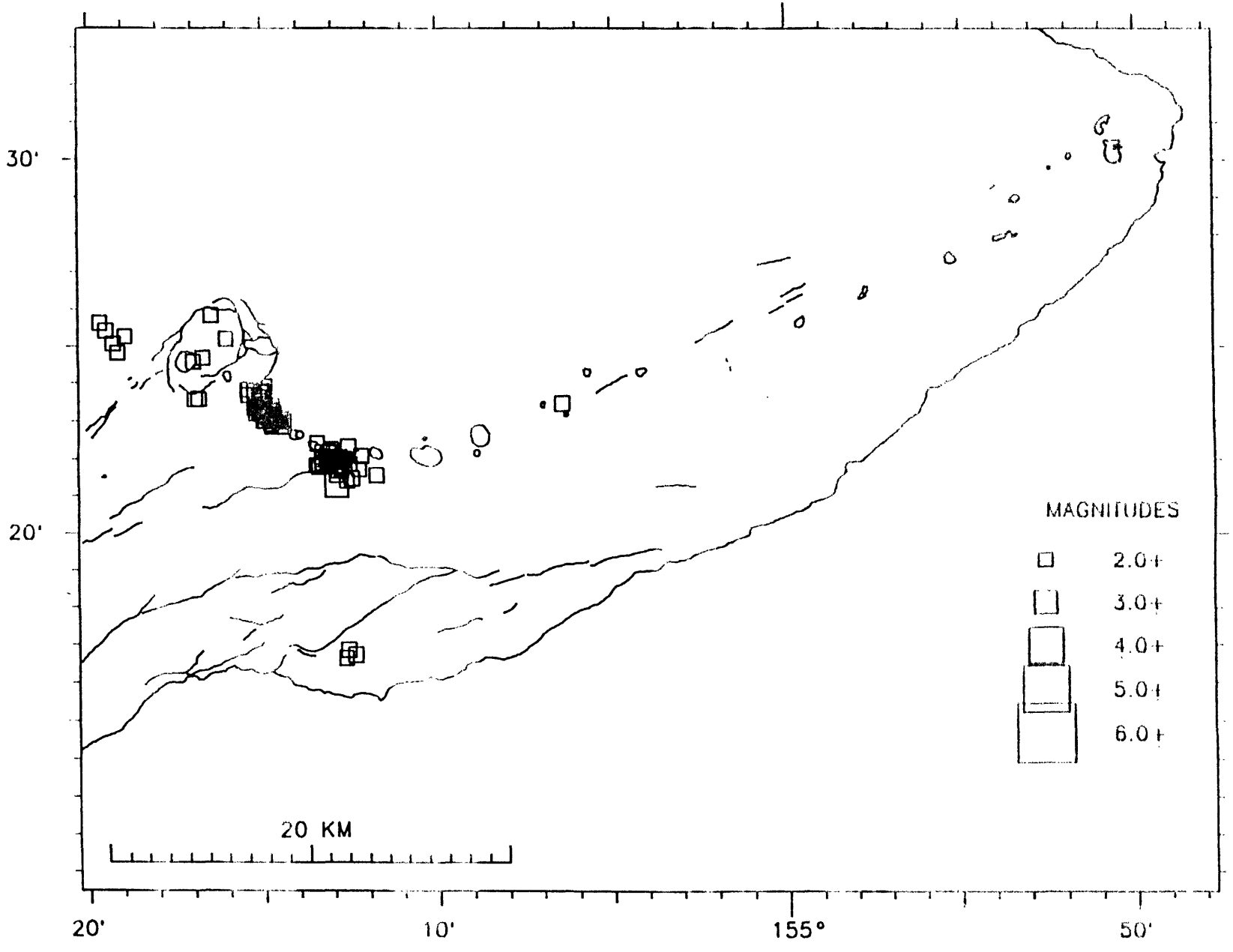

Figure 18. 1991 Earthquake locations, Kilauea south flank, intermediate (5.1–13.0 km depth), M>=2.0.

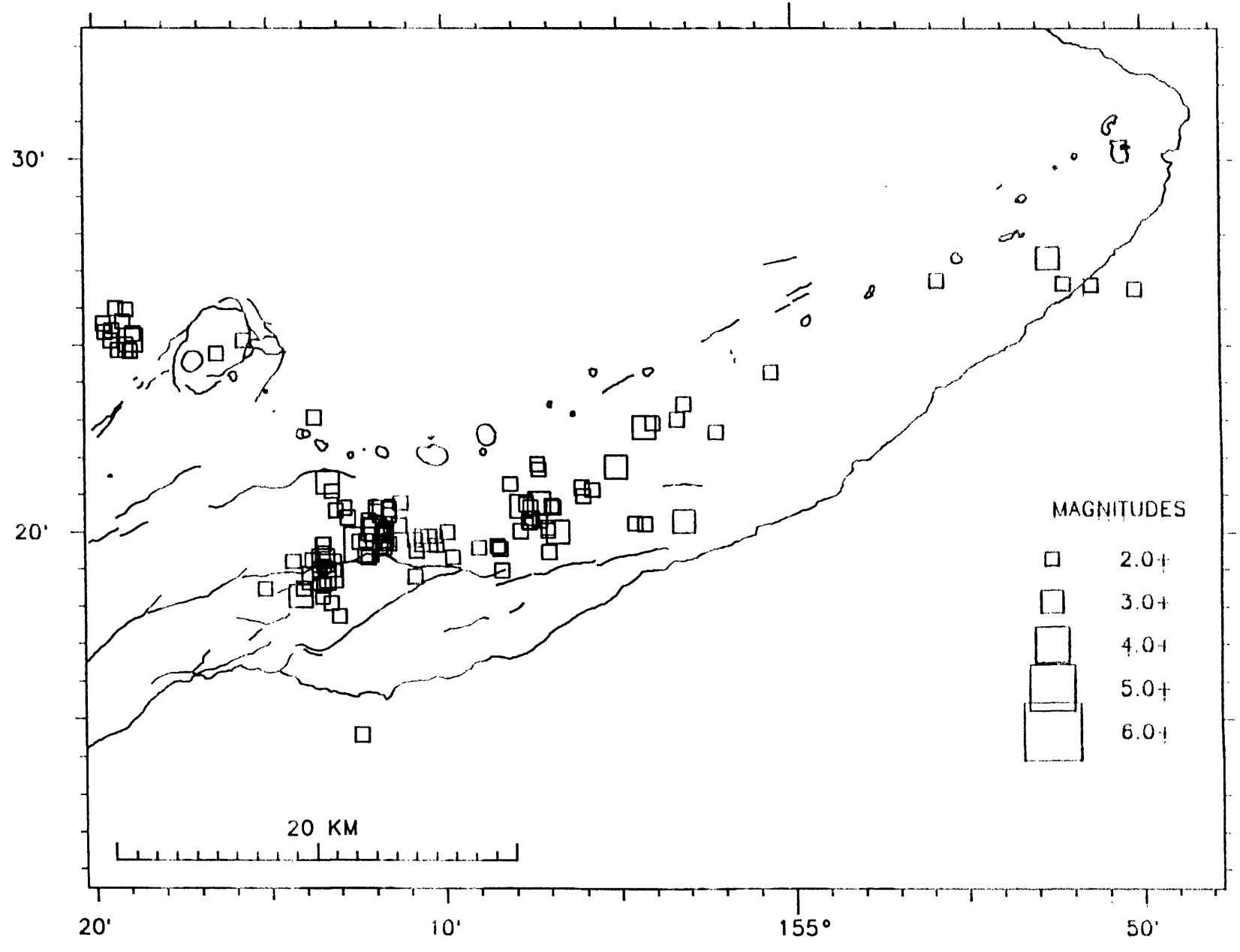

Figure 19. 1991 Earthquake locations, Kilauea south flank, deep (13.1–60.0 km depth), M>=2.0.

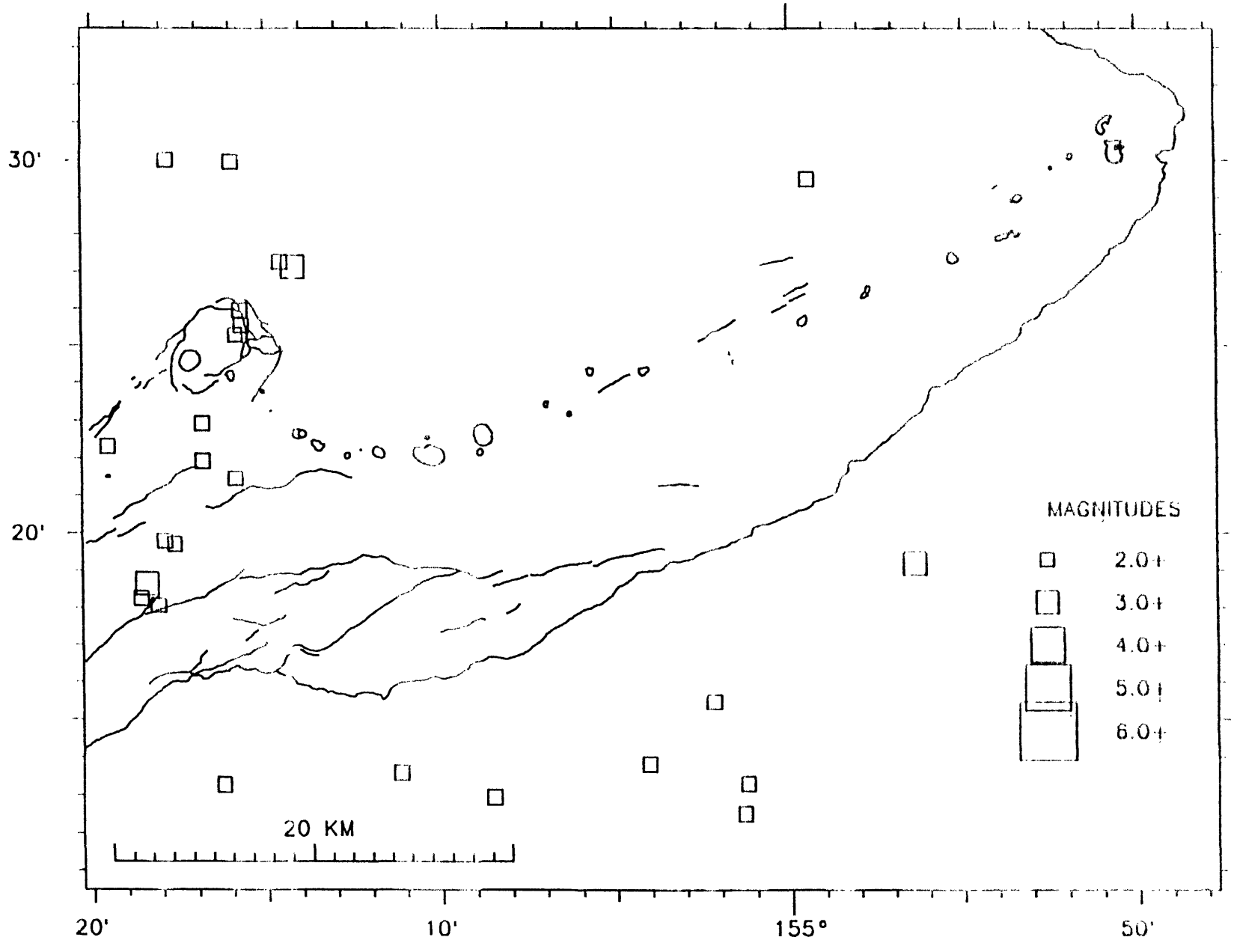

Figure 20. 1991 Earthquake locations, Mauna Loa summit, shallow (0–5.0 km depth), M>=2.0.

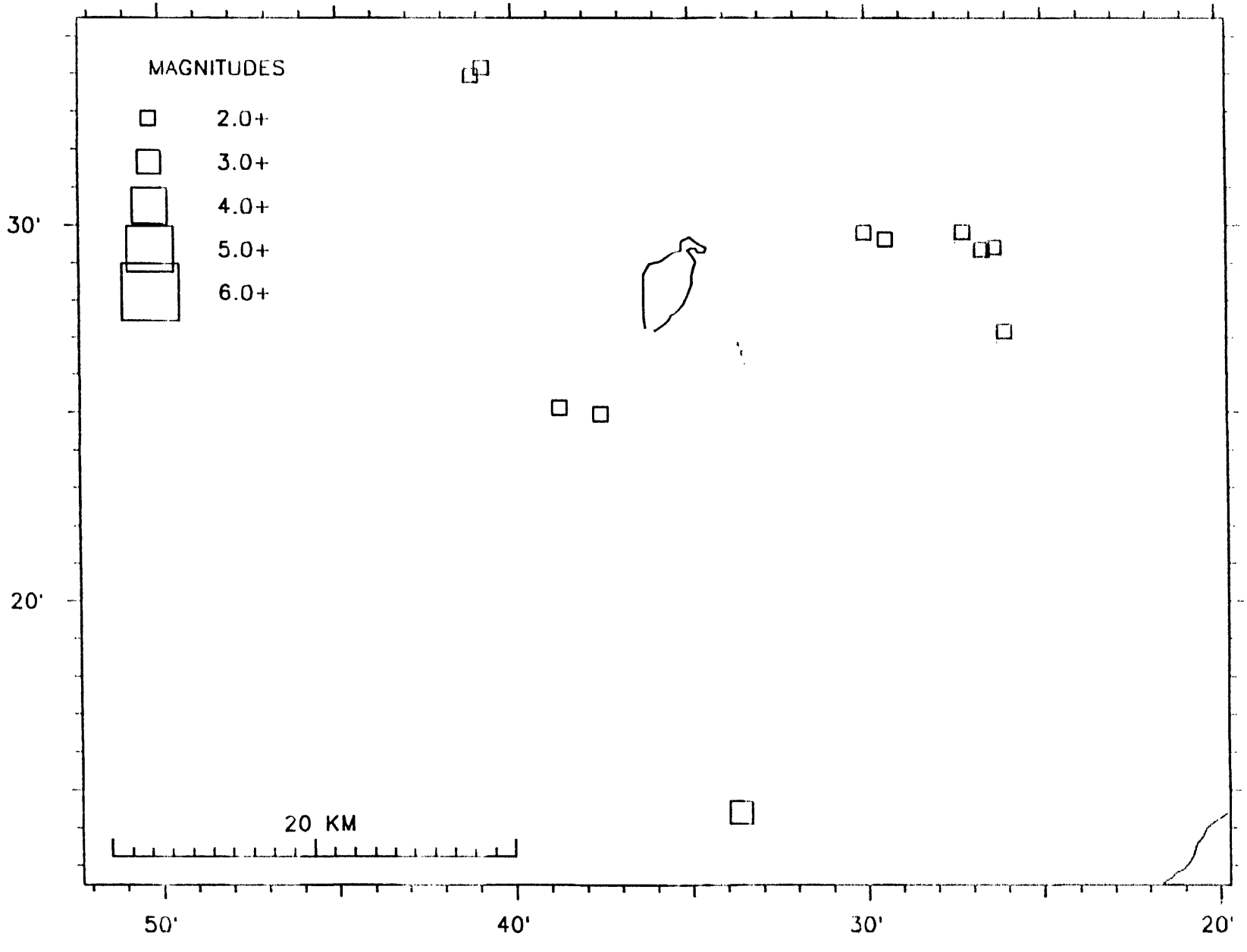

Figure 21. 1991 Earthquake locations, Mauna Loa summit, intermediate (5.1–13.0 km depth), M>=2.0.

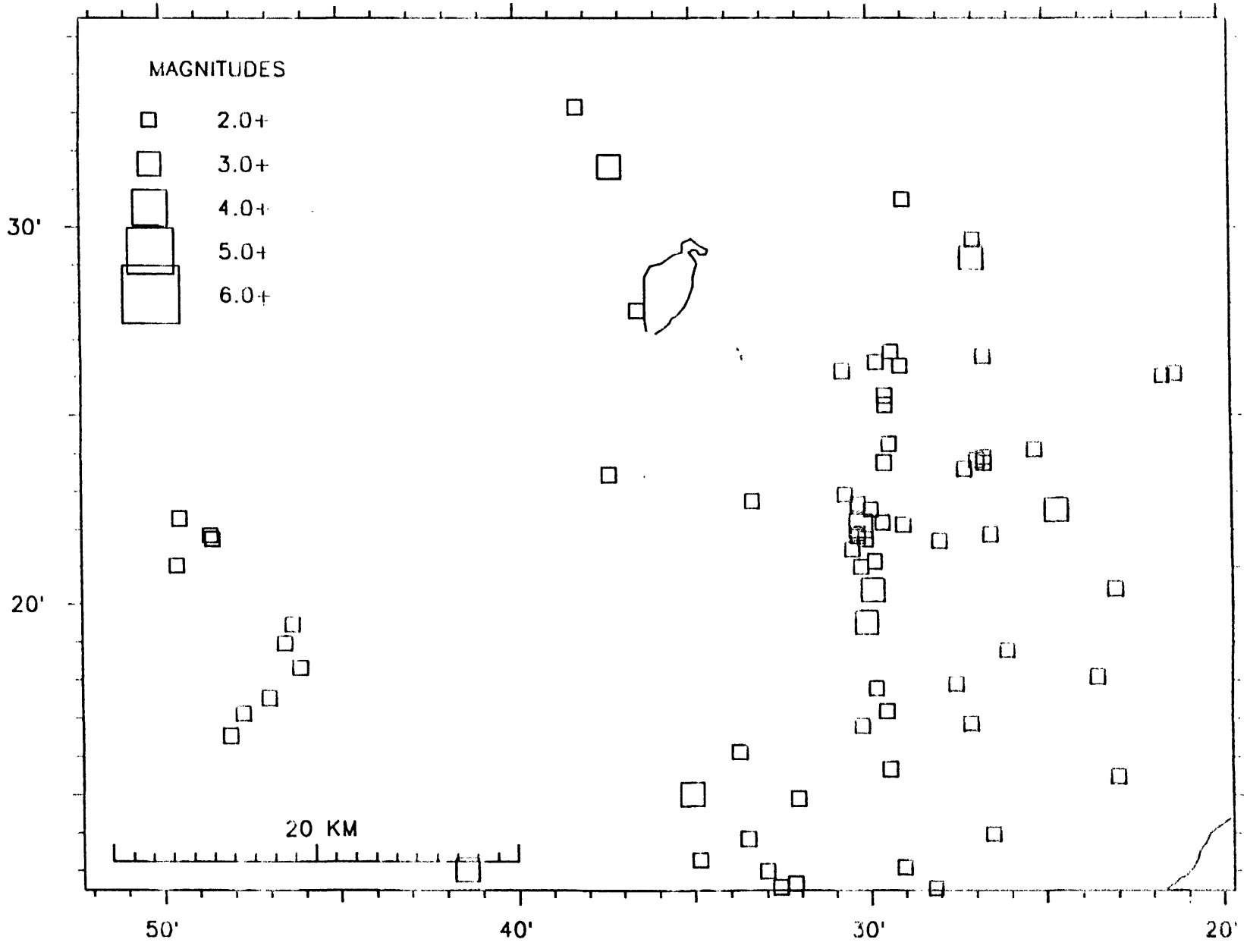

Figure 22. 1991 Earthquake locations, Mauna Loa summit, deep (13.1–60.0 km depth), M>=2.0.

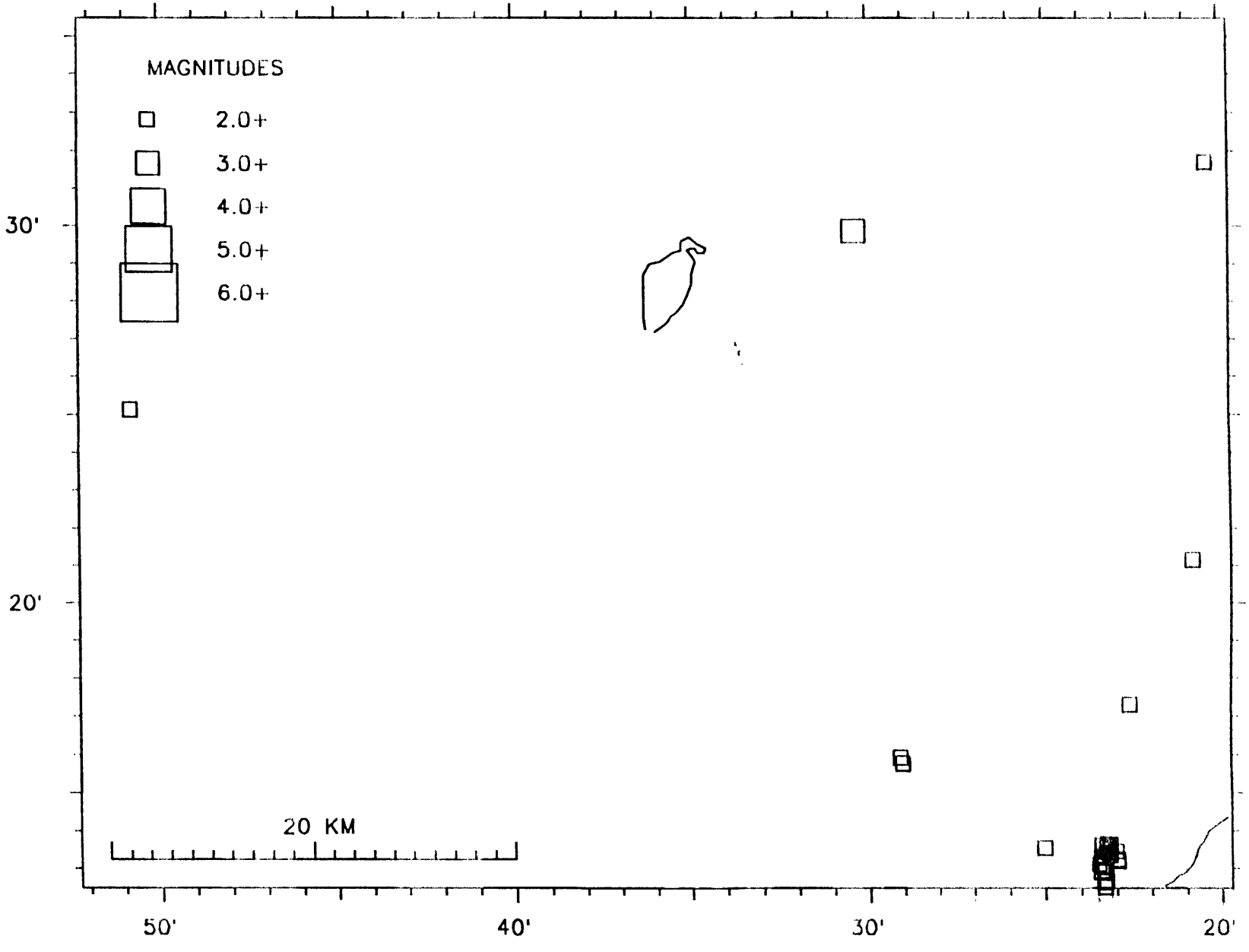

Table 5 is a chronological list of selected events M≥1.4, successfully located during 1991. For each event, the following data are presented:

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 kilometers.

AMP MAG - Amplitude magnitude, if determined.

DUR MAG - Duration magnitude, if determined.

NR - Number of arrivals (P and S) used in the solution.

NS - Number of S arrivals used in the solution.

GAP DEG - Largest azimuthal separation in degrees between stations.

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

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

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

ERH km - Standard error of the epicenter, in kilometers.

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

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.

\- the depth was held fixed.

Table 6 is a list of events of magnitude 3.0 or greater, selected from Table 5.

Table 5. 1991 HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	DMS	MIN DIS	ERH KM	ERZ KM	FM	NO EVID
1991	JAN	1	535	20.78	19	20.78	155	7.31	8.99	3.3	3.6	50	6	89	10	5	0.3	0.3	0 SP4
		1	644	7.13	19	24.26	155	29.68	9.54	1.7	1.6	27	2	51	.07	5	0.4	0.6	0 KAO
		1	1154	20.64	19	21.60	155	12.87	5.70	1.8	1.5	18	5	104	11	5	0.5	1.3	0 SP2
		1	1551	14.93	19	16.65	155	29.53	8.71	2.0	1.7	35	4	86	14	3	0.4	0.9	0 LSW
		1	2134	8.03	19	21.84	155	13.18	2.69	1.7	1.3	21	3	94	06	5	0.3	0.9	0 SEK
		2	747	5.42	19	24.87	155	19.60	5.85	1.8	0.9	19	3	78	07	2	0.5	0.9	0 KAO
		2	8 7	23.14	19	24.32	155	14.39	8.14	1.7	1.2	15	2	205	.10	1	1.4	1.4	0 INT L
		2	810	13.61	19	25.28	155	15.61	1.49	2.0	1.3	11	3	138	11	2	0.4	0.7	0 SNC I
		2	814	55.16	19	24.95	155	14.91	5.97		1.5	8	2	146	.11	1	0.9	1.6	0 INT L
		2	822	36.13	19	27.32	155	14.17	11.41		1.5	10	1	263	11	4	2.1	1.7	0 INT L
		2	827	34.33	19	24.62	155	15.35	3.08		1.0	9	2	155	12	2	0.6	1.0	0 SNC L
		2	837	29.47	19	26.49	155	15.80	3.66		1.2	14	2	214	.10	3	0.9	0.6	0 SNC L
		2	845	42.03	19	25.18	155	15.45	11.08		1.2	14	2	139	.11	2	1.2	1.4	0 INT L
		2	858	9.84	19	24.62	155	15.67	3.86		1.1	14	2	103	.10	2	0.4	0.5	0 SNC L
		2	9 8	19.72	19	23.81	155	17.90	10.92		1.0	9	1	103	14	3	1.5	2.8	0 INT L
		2	915	4.63	19	23.56	155	17.57	6.05		0.9	15	2	76	08	1	0.6	1.0	0 INT L
		2	944	42.21	19	25.22	155	15.55	3.93	2.2	1.2	17	4	137	.05	2	0.5	0.4	0 SNC L
		2	10 1	6.45	19	25.24	155	15.89	3.35	2.2	1.1	16	3	126	.10	2	0.4	0.5	0 SNC L
		2	10 5	17.34	19	25.42	155	15.39	9.24	2.5	1.3	14	3	153	.13	2	1.1	1.0	0 INT L
		2	1011	56.04	19	25.67	155	14.99	6.03	2.3	1.0	11	2	184	.08	2	0.9	1.3	0 INT L
		2	1025	14.45	19	24.84	155	16.10	4.18	2.1	1.1	11	0	105	07	2	0.6	0.6	0 SNC L
		2	1052	31.59	19	23.99	155	14.75	5.73	2.5	1.1	20	5	182	.10	1	0.6	0.8	0 INT L
		2	11 4	23.84	19	22.96	155	16.96	8.49	2.6	1.3	14	1	134	.10	1	0.9	1.5	0 INT L
		2	12 2	27.48	19	26.04	155	16.07	1.46	1.6	1.0	15	4	147	.07	3	0.3	0.4	0 SNC
		2	14 2	18.25	19	58.11	155	39.94	51.56		1.7	8	1	342	.10	45	6.8	4.6	0 KOH
		2	1819	37.06	19	30.04	155	27.68	5.78	1.6	1.1	20	4	93	.10	4	0.3	1.4	0 MLO
		2	1820	27.18	19	21.59	155	30.34	9.38	2.0	1.5	29	2	47	.07	5	0.4	0.6	0 KAO
		3	728	58.35	19	24.79	155	15.51	5.35	2.3	1.2	12	4	115	.09	2	0.7	1.1	0 INT L
		3	1420	25.88	18	28.13	156	16.16	24.72		1.7	28	2	328	.09	86	2.2	5.9	0 DIS
		4	1 2	18.16	19	19.41	155	26.64	10.99		1.3	28	2	58	.09	6	0.4	0.7	0 KAO
		4	656	25.42	19	24.55	155	1.12	6.43	0.8	1.6	40	3	126	12	4	0.4	0.6	0 SP5
		4	1259	49.10	19	23.77	155	29.56	9.41	2.5	2.2	50	8	32	.11	4	0.3	0.7	0 KAO
		4	1446	57.92	19	10.82	155	28.21	6.85		1.4	24	2	117	.13	3	0.8	1 3	0 LSW
		4	1526	47.15	19	23.69	155	15.23	5.25	2.2	1.0	16	3	92	.10	2	0.6	1.1	0 INT L
		4	1840	25.95	19	13.88	155	20.11	39.01		1.6	30	2	177	.11	7	1.1	1.9	0 DEP
		4	22 1	21.33	19	20.69	155	13.20	6.64		1.3	30	2	64	.12	4	0.5	0.8	0 SP2
		4	23 1	49.81	19	30.57	155	48.40	7.84		1.0	14	2	128	.10	4	1.0	1.3	0 KOH
		5	1524	12.10	19	24.16	155	16.96	11.75	2.4	1.4	14	4	148	.11	1	1.5	0.9	0 INT L
		5	1720	38.72	19	24.52	155	16.86	8.11	2.2	1.2	28	6	63	.10	1	0.5	0.5	0 INT L
		5	1745	31.55	19	11.82	155	41.05	2.49	2.3	2.3	31	3	117	.21	9	0.6	2.3	0 LSW
		5	2250	0.47	19	19.81	155	7.97	6.97		1.4	38	5	91	.09	5	0.5	0.7	0 SP4
		6	157	42.38	19	25.14	155	15.71	11.83	2.6	1.7	30	2	79	.11	2	0.6	0.7	0 INT L
		6	218	5.73	19	23.92	155	16.45	6.89	1.8	1.0	18	3	72	.14	0	0.7	0.9	0 INT L
		6	351	49.50	19	0.09	155	8.91	40.84		1.8	52	10	238	.11	32	1.2	0.8	0 HOI
		6	1156	19.35	19	27.44	154	53.75	5.38	0.8	1.6	24	1	143	.09	4	0.6	1.3	0 IFR

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	DMS	MIN DIS	ERH KM	ERZ KM	FM	NO EVID
1991	JAN	6	1416	15.51	19	21.22	155	7.96	8.29		1.5	31	2	74	10	4	0.5	0.7	0 SP4
		6	1448	51.25	19	53.06	156	30.05	0.89	1.8	2.2	26	4	292	15	75	5.2	1.6	0 DIS
		6	20 0	32.13	19	21.74	155	28.57	10.50		1.3	30	2	39	11	2	0.4	0.6	0 KAO
		6	2249	2.51	19	24.08	155	17.29	10.04	0.9	1.0	12	2	87	08	1	1.0	0.9	0 INT L
		6	2258	54.90	19	25.43	155	19.47	6.50		1.0	17	3	87	.08	3	0.5	1.1	0 KAO
		7	335	55.13	19	24.35	155	15.34	12.48	0.6	1.2	13	2	91	.09	2	0.9	1.0	0 INT L
		7	427	52.14	19	25.14	155	17.22	10.63	0.8	1.0	14	3	89	08	1	0.9	1.0	0 INT L
		7	449	34.44	19	24.64	155	16.91	11.07	0.9	1.0	13	1	86	.09	2	0.8	1.4	0 INT L
		7	512	8.36	19	24.95	155	16.84	11.28	0.8	1.3	13	1	94	07	0	1.0	1.4	0 INT L
		7	557	37.04	19	24.65	155	16.52	11.97	0.9	1.1	16	2	91	.09	1	0.9	1.3	0 INT L
		7	636	40.55	19	24.83	155	16.30	12.66	0.9	1.0	12	3	177	.07	2	1.3	0.8	0 INT L
		7	656	32.61	19	25.01	155	15.92	13.91	0.9	1.0	16	2	116	08	2	1.1	1.1	0 DEP L
		7	738	16.39	19	25.70	155	15.73	13.07		1.0	12	3	206	.07	3	1.2	0.9	0 DEP L
		7	813	41.04	19	25.11	155	16.19	13.72	0.9	1.1	13	2	183	06	2	1.3	0.9	0 DEP L
		7	841	55.33	19	24.82	155	16.49	13.76		1.1	13	3	96	08	2	0.9	0.9	0 DEP L
		7	1219	34.43	19	31.60	155	37.26	11.25	3.5	3.3	47	5	109	11	4	0.4	0.5	0 MLO
		7	17 4	32.14	19	25.67	155	15.54	14.57	2.0	1.0	13	1	193	.10	4	1.5	0.9	0 DEP L
		7	1818	58.01	19	20.26	155	7.09	6.73	2.0	1.8	41	6	101	12	6	0.4	0.6	0 SP4
		7	1826	16.26	19	25.41	155	16.76	12.78	2.1	1.2	26	3	106	07	1	0.7	0.9	0 INT L
		7	19 5	50 67.19	19	25.61	155	15.63	12.11	2.0	1.4	15	3	151	09	3	1.5	1.0	0 INT L
		7	2047	47.56	19	25.32	155	16.52	13.19	2.1	1.2	20	5	116	05	1	0.9	0.7	0 DEP L
		7	2129	18.19	19	25.84	155	16.22	13.63	2.0	1.0	18	5	134	.11	3	1.5	0.9	0 DEP L
		7	2336	31.04	19	25.72	155	16.22	12.63	2.1	1.5	19	4	131	13	2	1.2	0.9	0 INT L
		8	0 0	35.77	19	24.11	155	15.63	12.50	2.0	1.2	14	4	157	.07	2	1.5	0.8	0 INT F
		8	1 3	38.71	19	25.50	155	16.70	13.80	2.1	1.1	21	5	110	.07	1	0.9	0.8	0 DEP L
		8	150	43.11	19	25.01	155	16.86	14.06	2.1	1.2	16	2	94	10	0	0.9	1.1	0 DEP L
		8	235	22.79	19	23.49	155	16.25	13.42	2.1	1.2	14	3	63	.14	1	1.5	1.2	0 DEP L
		8	333	10.89	19	20.52	155	11.02	7.98	1.6	1.6	34	5	77	.09	4	0.4	0.6	0 SP3
		8	348	17.22	19	24.48	155	17.14	2.59	2.3	1.3	22	6	68	14	1	0.5	0.3	0 SSC 1
		8	4 3	5.84	19	25.20	155	15.79	10.67	1.7	1.1	16	5	128	.13	2	1.4	0.8	0 INT L
		8	554	10.55	19	25.34	155	15.55	13.04	2.1	1.2	20	3	143	11	2	1.0	1.2	0 DEP L
		8	610	17.09	19	24.40	155	16.22	12.96	2.1	1.2	19	3	87	10	1	0.8	1.0	0 INT L
		8	828	21.13	19	23.68	155	16.83	11.54	2.0	1.2	20	3	44	08	1	0.7	1.1	0 INT L
		8	842	44.84	19	13.00	155	32.99	9.06	2.3	2.4	44	3	124	.13	6	0.6	0.6	0 LSW
		8	9 0	28.92	19	24.38	155	16.58	11.41	1.9	1.2	20	3	83	.08	1	0.6	1.0	0 INT L
		8	917	30.56	19	24.51	155	16.66	9.01	1.8	1.0	22	5	85	12	1	0.6	0.9	0 INT L
		8	943	57.97	19	24.37	155	17.35	11.47	1.8	1.0	21	3	52	.09	1	0.6	1.0	0 INT L
		8	953	54.11	19	24.50	155	16.54	10.62	1.4	0.9	18	2	87	14	1	0.8	1.4	0 INT L
		8	1013	50.35	19	25.07	155	16.02	9.63	1.9	1.1	19	2	115	12	2	0.7	1.1	0 INT L
		8	1029	13.40	19	25.19	155	15.85	10.86	1.7	1.0	19	5	150	.09	3	0.8	0.8	0 INT L
		8	1048	31.19	19	24.85	155	16.97	9.84	1.7	0.9	18	3	86	10	0	0.7	0.7	0 INT L
		8	1141	30.23	19	23.50	155	18.73	11.80	2.1	1.3	16	4	124	.12	2	1.1	0.9	0 INT L
		8	1152	3.14	19	25.15	155	16.72	14.15	2.0	1.0	18	4	101	09	2	1.2	0.8	0 DEP L
		8	1159	9.23	20	16.16	156	22.10	6.12		1.8	26	5	309	15	63	8.0	9.9	0 DIS
		8	1213	49.93	19	25.67	155	15.26	14.37	2.0	1.3	23	6	157	.10	2	1.0	0.8	0 DEP L

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	Nr	GAP NS	DMIN SEC	RMS DIS	ERH KM	ERZ KM	MD FM	REMK
1991	JAN	8	13 6	45.49	19	25.35	155	15.98	13.72	2.0	1.3	21	5	138	.07	2	0.9	0.6	0 DEP L
		8	1345	10.43	19	47.93	155	24.40	25.08	2.3	2.0	49	6	151	09	6	0.6	1.1	0 KEA
		8	14 0	53.12	19	24.92	155	16.10	12 94	2.0	1.1	17	4	139	13	3	1.1	1.0	0 SNT L
		8	14 6	37.81	19	19.17	155	14.81	32.47		1.6	46	4	83	10	5	0.8	0.9	0 DEP
		8	1454	59.67	19	23 77	155	16.09	13.66	1.8	1.0	13	5	175	09	3	1.5	0.8	0 DEP L
		8	15 5	10.03	19	24 55	155	15.89	13 34	2.1	1.4	23	5	97	12	2	0.7	0.9	0 DEP L
		8	1513	31.13	19	24.77	155	3.63	3.25	1.7	1.4	23	3	87	09	1	0.4	0.4	0 SHE
		8	1554	44.43	19	28.09	155	16.38	0 04	2.2	1.2	11	3	294	18	5	1.1	1.2	0 GIN L
		8	16 7	8.24	19	24.89	155	17.47	11.72	1.8	1.0	17	3	80	14	1	0.7	0.6	0 DEP L
		8	1620	25.93	19	25.20	155	15.64	16.21	1.9	1.1	17	2	169	12	2	1.2	1.0	0 DEP L
		8	1656	35.10	19	24.83	155	16.46	13 65	2.1	1.3	22	5	146	07	1	0.7	0.6	0 DEP L
		8	1650	52.67	19	25.23	155	17.00	13.82	2.2	1.3	20	6	96	08	1	1.2	0.8	0 DEP L
		8	1750	47.73	19	25 11	155	16.29	14 28	2.1	1.3	29	3	110	12	1	1.0	1.1	0 DEP L
		8	1836	14.91	19	25.05	155	17.97	12.29	1.8	1.0	14	3	87	12	1	1.0	1.3	0 DEP L
		8	1852	7.18	19	26.36	155	15.24	14 07	1.9	1.1	20	4	194	.15	3	1.4	0.8	0 DEP L
		8	1929	7.99	19	25.47	155	16.44	12 33	2.1	1.4	34	8	116	20	1	0.8	0.5	0 DEP L
		8	2125	6.92	19	25.00	155	15.72	13.21	2.1	1.2	27	6	121	13	2	0.7	0.5	0 DEP L
		8	22 2	42.48	19	25.08	155	16.40	12 91	1.8	1.1	21	5	106	07	1	0.8	0.7	0 DEP L
		8	2223	58.39	19	25.74	155	15.44	14 49	2.0	1.2	21	5	164	10	3	1.0	0.6	0 DEP L
		8	23 7	12.05	19	25.41	155	15.68	14 92	2.0	1.1	20	4	140	.10	2	0.9	0 9	0 DEP L
		9	0 5	41.29	19	24.87	155	16.83	11 92	2.0	1.2	23	5	64	12	0	0.7	0.8	0 DEP L
		9	032	4.74	19	24.76	155	17.17	10.16	1.7	1.1	18	0	49	.09	0	0.7	1.0	0 DEP L
		9	1 7	29.96	19	25.20	155	15.64	14 40	2.0	1.1	22	5	132	09	2	0.9	0.6	0 DEP L
		9	246	46.09	19	24.26	155	17.33	15.92	2.3	1.5	25	6	43	10	1	0.9	0.7	0 DEP L
		9	250	58.36	19	26.04	155	16.88	13 54	1.9	1.1	22	5	115	11	2	1.0	0.7	0 DEP L
		9	313	35.71	19	25.48	155	15.83	15 21	2 1	1.4	21	5	138	12	2	1.0	0.6	0 DEP L
		9	347	7.08	19	24.58	155	16.84	12.10	1.9	1.2	22	5	89	08	1	0.5	0.5	0 DEP L
		9	544	17.72	19	26.04	155	15.73	11 75	2.2	1.5	22	4	152	09	3	0.6	0.7	0 DEP L
		9	549	52.91	19	22.71	155	17.46	6.56	2.4	1.4	14	5	117	09	2	0.7	1.3	0 DEP L
		9	644	12.44	19	24.17	155	16.39	9 04	2.0	1.2	21	4	79	11	1	0.6	0.7	0 DEP L
		9	749	41.44	19	24.71	155	16.95	10 26	2 0	1.1	20	4	86	09	0	0.6	0.8	0 DEP L
		9	828	52.95	19	24.85	155	16.19	7.94	1.9	1.2	21	3	103	.09	1	0.5	0.8	0 DEP L
		9	852	23.38	19	25.04	155	15.72	15 12	2 1	1.1	21	7	152	.09	3	0.9	0.6	0 DEP L
		9	920	40.82	19	24.52	155	17.34	9 92	1 9	1.1	28	5	47	13	1	0.5	0.8	0 DEP L
		9	959	35.71	19	24 31	155	17.87	10.15	2.0	1.2	22	4	52	10	2	0.5	0.8	0 DEP L
		9	1021	56.12	19	24.83	155	16.83	11 82	1 9	1.1	20	3	91	11	0	0.7	1.0	0 DEP L
		9	1034	7.66	19	19.10	155	10.07	6 80		1 4	34	7	307	08	5	0.4	0.8	0 SHB
		9	1040	30.79	19	25 07	155	16.19	14 58	1 9	1.0	17	3	111	04	1	0.9	0.9	0 DEP L
		9	11 1	22.77	19	24.06	155	15.08	13 26	1.9	1.1	12	2	158	12	2	1.7	1.1	0 DEP L
		9	1124	7.77	19	24.61	155	13.88	17 45	2.0	0.9	12	2	260	08	5	1.8	0.9	0 DEP L
		9	12 1	30.38	19	24.83	155	16.24	15 61	2 1	1.3	21	5	102	10	1	1.0	0.6	0 DEP L
		9	1234	1.96	19	25.94	155	13.41	17 36	2.0	0.9	13	3	273	09	7	1.9	0.9	0 DEP L
		9	1249	51.34	19	24.56	155	17.23	10 93	1 7	0.8	22	5	55	10	1	0.6	0.8	0 DEP L
		9	1250	1.15	19	22 51	155	16.28	11 97	1.9	1.2	21	5	97	17	1	1.0	1 1	0 DEP L
		9	1314	19.38	19	24.33	155	16.83	12 85	1.8	0.9	15	4	89	09	2	1.4	1 1	0 DEP L

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	Nr	GAP DMIN	RMS SEC	ERH DIS	ERH KM	ERZ KM	MD FM	REMK
1991	JAN	9	1339	7 20	19	24 55	155	15 96	13.34	1.9	1.0	18	5	189	09	2	1 1	0 7	0 DEP L
		9	1342	47.10	19	23.52	155	17 77	7.00	1.8	1 1	18	2	50	09	2	0.5	1 0	0 DEP L
		9	14 2	21.37	19	23 69	155	16 23	12.80	2 0	0 8	15	4	171	14	2	1.3	1 3	0 DEP L
		9	1426	59.08	19	24.55	155	15 17	15.41	2.0	1.1	15	4	253	07	4	1 6	0 8	0 DEP L
		9	1429	36 26	19	24 38	155	15 66	14.32	1.9	1 1	16	4	202	12	4	1.4	0 8	0 DEP L
		9	1441	38.38	19	25 05	155	15 72	12 51	1.8	0 8	16	4	202	09	3	1 2	0 9	0 DEP L
		9	1457	29.61	19	25.12	155	15 82	13.43	2 0	1 1	23	3	123	17	3	1.2	0 6	0 DEP L
		9	1528	47 70	19	24 24	155	16 91	14.72	1 9	1 1	15	2	93	21	1	1 0	1.1	0 DEP L
		9	1541	8 13	19	25.68	155	15 15	13.77	1.8	1 1	13	1	227	.09	4	1.5	0.8	0 DEP L
		9	1558	18 49	19	24.29	155	17 38	0.98	1.1	0 7	10	0	133	12	4	0.5	1 1	0 SSC L
		9	1617	6 57	19	24 84	155	14 74	16 23	2.1	1 3	11	2	176	12	4	1 5	0 9	0 DEP L
		9	17 2	15.63	19	25.02	155	15.89	14.99	2.1	0.9	16	4	117	10	2	1 2	0 6	0 DEP L
		9	17 2	31 51	19	25 90	155	15 88	19.02	2 1	1 2	13	2	150	.05	3	2 1	1 2	0 DEP L
		9	1728	58.70	19	24.68	155	15 42	16.13	1 9	1.1	11	1	109	08	2	1 3	1.1	0 DEP L
		9	1736	56 42	19	25 12	155	15 61	15.29	2 1	1 1	19	4	130	07	2	0 9	0 5	0 DEP L
		9	1817	21 83	19	25 44	155	16 68	10.55	1.7	1.2	17	0	169	09	1	0 6	1 3	0 DEP L
		9	1838	29 54	19	11.55	155	41 67	2.80		1.6	22	1	122	22	10	1.1	6 1	0 LSW
		9	1922	33 29	19	26 45	155	16 01	16.03	2.3	1 4	14	2	163	09	3	1 5	0 9	0 DEP L
		9	2032	6.36	19	25.32	155	16 44	12.15	2.0	1.1	23	2	112	.09	1	0.7	0.9	0 DEP L
		9	21 0	10 37	19	25 14	155	16 49	14.25	1 8	0 9	15	3	105	.11	2	1 0	0 9	0 DEP L
		9	21 0	19 34	19	25 67	155	16 65	12.43	1.8	1 0	16	3	114	08	2	0 8	0 8	0 DEP L
		9	2141	8 40	19	25.48	155	16.38	12.93	1.9	1 0	20	2	119	08	2	0.7	1.0	0 DEP L
		9	2231	58.07	19	25 63	155	14 00	16.44	1 9	0.9	10	2	258	11	6	2 0	0 8	0 DEP L
		9	2240	22.71	19	26.05	155	15.54	14.56	2.0	1.1	17	2	171	09	3	1.1	1.3	0 DEP L
		9	2248	7.71	19	25 98	155	14.87	14.51	1 9	1 0	13	1	239	06	5	1 4	1.4	0 DEP L
		9	2311	34 51	19	25 48	155	16 41	12.63	2.0	1 1	21	3	116	08	1	0 7	0 8	0 DEP L
		9	2334	29 00	19	24.94	155	16.78	13.16	2.1	1.2	20	5	95	.11	0	1.0	0.7	0 DEP L
		9	2358	24.90	19	24 66	155	18.56	14.81	1 9	1 2	16	3	65	08	2	1 2	1 0	0 DEP L
		10	010	39 38	19	24 83	155	16.50	15.07	1.9	1 0	18	3	97	.11	2	1 1	1.0	0 DEP L
		10	055	31 57	19	23 99	155	16 83	13.66	1 9	1.0	22	5	71	.13	0	0.8	1 2	0 DEP L
		10	056	7 82	19	25 40	155	16 18	13.21	2 0	1 2	21	4	123	09	2	0 7	0 8	0 DEP L
		10	118	15.64	19	24 12	155	16 41	12.40	2 0	1 0	18	5	90	.08	3	0 8	0.9	0 DEP L
		10	121	16 88	19	25 27	155	16 20	13 81	1 8	0 9	17	2	118	08	2	0 7	1.2	0 DEP L
		10	137	53 36	19	25.40	155	15.80	14 93	2 0	1 0	20	3	136	07	2	0 8	1 1	0 DEP L
		10	213	23 42	19	25 20	155	16 73	11.16	1 9	1 1	28	7	66	11	1	0.5	0.6	0 DEP L
		10	229	10 09	19	24.09	155	16 89	11 96	1 9	0 9	19	4	169	11	1	0 7	1 0	0 DEP L
		10	243	4 93	19	24.42	155	16 63	11 19	1 8	0 9	17	4	118	10	2	0 8	0 8	0 DEP L
		10	244	27 61	19	23 59	155	16.27	10.82	1.8	1 1	20	3	103	09	1	0 6	0.8	0 DEP L
		10	3 6	47 03	19	24 14	155	17.11	12.86	1.9	0 8	16	3	58	12	2	0.7	1.0	0 DEP L
		10	3 7	50.19	19	25 44	155	15 46	12 98	1 9	1 0	18	3	167	.09	3	0.8	0 9	0 DEP L
		10	328	52 94	19	25 42	155	16 40	11 64	1 9	1 1	23	4	73	09	1	0.6	0 8	0 DEP L
		10	457	28.45	19	24 34	155	18 20	12.91	1 8	1 0	20	2	57	.10	2	0.8	1 2	0 DEP L
		10	457	36 21	19	23 73	155	16 39	11.75	2 1	1 4	21	2	64	09	0	0 6	0.9	0 DEP L
		10	5 5	10 29	19	25 34	155	15 50	14.85	1 9	0 9	15	1	164	08	3	1 3	1 6	0 DEP L
		10	510	18 89	19	24 71	155	15 98	12 80	1.8	0 9	18	4	139	.13	2	0 9	0.9	0 DEP L

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	SEC	NMS DIS	MIN	ERH KM	ERZ KM	QD FM	REMK
1991	JAN	10	521	35.21	19	24.83	155	17.05	11.20	1.7	1.0	19	2	48	09	0	0.7	1.1	0	INT L
		10	530	47.18	19	19.70	155	10.21	8 20	0.9	1.5	34	4	92	10	4	0.5	0.8	0	SP3
		10	649	22.90	19	24.21	155	17.29	10.59	2.0	1.3	19	2	59	10	1	0.7	1.2	0	INT L
		10	712	46.48	19	25.51	155	15.34	14 90	2.1	1.3	22	3	95	07	2	0.6	0.7	0	DEEP L
		10	821	40.95	19	24.65	155	17.13	11.29	2.0	1.1	20	2	63	.08	1	0.6	0.8	0	INT L
		10	841	59.59	19	24.51	155	16.43	13 79	1.8	0.9	15	3	170	08	3	1.2	1.2	0	DEEP L
		10	849	33.00	19	25.22	155	16.28	13.25	2 0	1.2	21	4	114	.10	1	0.8	0.9	0	DEEP L
		10	931	5.42	19	25.00	155	15.70	14 85	1.9	1.1	19	4	121	13	2	1.5	0.9	0	DEEP L
		10	931	21.54	19	23.67	155	15.31	8.28	2.0	1.2	22	5	146	07	2	0.6	0.7	0	INT I
		10	949	9.67	19	23.95	155	16.97	11 32	1.9	1.2	17	3	69	.14	1	0.9	1.1	0	INT L
		10	1020	23.11	19	24.62	155	16.32	12.43	2.1	1.3	19	3	94	07	1	0.8	1.0	0	INT I
		10	1055	13.91	19	23.51	155	12.05	15 63	2.1	1.2	10	2	298	15	7	2.8	1.1	0	DEEP L
		10	1121	49.76	19	23.66	155	16.48	14 67	2 1	1.2	19	4	84	.15	0	1.1	1.1	0	DEEP L
		10	1151	50.17	19	24.85	155	16.31	12 45	2.1	1.2	17	3	75	.08	1	0.9	1.0	0	INT L
		10	1220	39.67	19	25.62	155	15.61	14 81	2.2	1.2	16	4	166	.07	3	1.4	0.9	0	DEEP L
		10	1256	51.23	19	13.44	156	23.17	46 49		1.7	20	3	331	13	54	2.7	2.2	0	DIS
		10	1329	25.77	19	19.70	155	11.60	7.17	2 2	1.9	42	5	90	10	5	0.4	0 7	0	SP3
		10	1356	20.59	19	26.52	155	16.49	11.84	1.8	0.8	12	5	234	07	3	1.6	0.7	0	INT L
		10	1412	28.94	19	24.38	155	16.04	12 64	2.0	1.4	23	5	89	10	1	0.7	0.8	0	INT L
		10	1453	54.17	19	25.54	155	14.88	14.31	1.9	1.0	16	4	234	08	5	1.3	0.7	0	DEEP L
		10	1527	5.73	19	25.55	155	16.16	13 69	1.8	0.8	15	3	147	07	3	1.3	0.7	0	DEEP L
		10	1618	29.60	19	25.49	155	16.91	14 12	2.0	1.3	17	4	182	11	1	1.4	0.8	0	DEEP L
		10	1729	2.36	19	25.34	155	16.70	10 95	1.8	1.1	17	3	106	12	1	0.8	0.9	0	INT L
		10	19 2	8.06	19	26.30	155	16.84	9 82	1.9	1.4	12	1	317	.15	3	1.0	1.5	0	INT L
		10	1952	58.67	19	25.87	155	15.37	13 42	1.8	1.1	20	3	172	12	3	0.9	0.6	0	DEEP L
		10	2041	44.82	19	25.14	155	16.65	12 16	1.8	1.1	17	2	67	10	1	0.7	0.9	0	INT L
		10	2124	40.50	19	25.10	155	16.61	11 95	1.8	1.0	22	4	101	08	1	0.6	0 7	0	INT L
		10	2238	47.15	19	25.67	155	16.45	13 41	1.8	1.1	20	4	121	08	2	0.9	0.7	0	DEEP L
		10	2358	1.82	19	25.20	155	16.41	11 96	1.8	1.0	20	5	109	07	1	0.8	0.7	0	INT L
		11	037	58.28	19	24.89	155	16.90	11.27	2.1	1.4	22	4	62	.09	0	0.6	0.8	0	INT L
		11	2 2	4.17	19	25.63	155	15.35	14.57	1.6	1.1	20	4	154	.08	3	1.1	0.9	0	DEEP L
		11	3 3	53.73	19	25 05	155	16.74	12 49	2.0	1.3	21	4	65	08	1	0.7	0.8	0	INT L
		11	341	34.15	19	24.86	155	16.94	13 04	1.7	1.1	18	3	90	10	0	0.9	1.0	0	DEEP L
		11	355	3.95	19	27.24	155	13.49	8 19	2 5	1.3	18	4	254	14	5	1.5	1.1	0	GIN L
		11	359	45.92	19	24.14	155	15.67	1 19	2.1	1.2	15	3	80	.13	2	0.3	0.5	0	SSC L
		11	421	47.70	19	25.39	155	16.46	13 18	1.8	1.0	18	2	113	.08	1	0.7	1.1	0	DEEP L
		11	443	29.08	19	25.49	155	16.38	12 05	1.8	1.1	18	2	119	08	2	0.9	0.8	0	INT L
		11	526	12.98	19	23.88	155	16.34	9 84	2.0	1.2	22	3	65	10	0	0.6	0.8	0	INT L
		11	628	37.38	19	12.27	155	22.82	49 55	2 1	1 6	20	3	206	13	4	1.6	1.8	0	DEEP L
		11	726	31.28	19	25.32	155	17.61	15 87	2 1	1.3	19	1	53	10	0	0.8	1.1	0	DEEP L
		11	829	3 21	19	25.53	155	16.13	12 58	2 0	1.0	15	3	147	12	3	1.0	1.0	0	INT I
		11	9 5	59.59	19	24 66	155	16.56	12.83	2.1	1.4	18	2	91	.11	1	0.9	1.4	0	INT L
		11	944	2.88	19	24.82	155	16.51	13.23	1 8	1.0	16	2	97	09	1	1.0	1.4	0	DEEP L
		11	1014	29.56	19	25.47	155	16.11	13.98	2.0	1.2	21	3	128	07	2	0.9	0 9	0	DEEP L
		11	1129	14.82	19	26.31	155	16.63	15 30	2 2	1 6	11	1	127	.11	2	1.5	1 1	0	DEEP I

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	SEC	NMS DIS	MIN	ERH KM	ERZ KM	QD FM	REMK
1991	JAN	11	13 3	56.92	19	25 73	155	16 [illegible]	12.32	2 0	1 4	19	1	135	11	2	0 9	1 1	0	INT I
		11	14 3	13.47	19	10.16	155	36 15	6.98	2.5	2 2	34	5	104	21	9	0.6	1.4	0	LSW
		11	1420	11 62	19	27 49	155	15 96	13.81	2 0	1 5	12	0	217	09	1	2 7	2 9	0	DEP I
		11	1634	57 11	19	23 74	155	17.07	14.98	2 4	1.4	16	3	65	.22	2	1.4	1.4	0	DEEP L
		11	1655	16 80	19	19.66	155	10 24	9.42	2.1	2.2	41	5	94	10	5	0.5	0.7	0	SP3
		11	17 9	42.14	19	26.80	155	16 87	15.56	2.1	1.2	16	3	188	12	3	1.5	1 0	0	DEEP L
		11	1919	11.08	19	24 71	155	16 66	13.33	2.1	1 4	18	5	90	08	1	1 2	0 9	0	DEP I
		11	1945	41 92	19	25.81	155	16 23	16.33	1.9	1 0	13	2	149	08	3	1.5	1 0	0	DEEP L
		11	2011	54 26	19	24 66	155	18 70	18.02	1 9	1 3	17	4	103	12	2	1.6	0 9	0	DEEP L
		11	2032	28.11	19	20.51	155	10.97	7.65	1.6	1.6	34	4	77	.12	3	0 5	0.8	0	SP3
		11	2036	49.26	19	29.96	155	29 58	3.76	2.1	1.5	21	3	99	.09	5	0.4	1 4	0	KAO
		11	2038	6 55	19	16 14	155	29 78	9.99	2.1	1 4	24	2	63	.13	2	0.5	1 2	0	LSW
		11	2042	51 03	19	30 14	155	29 17	2.95	2 0	1 3	20	5	68	11	4	0 3	0 9	0	MLO
		11	2123	10.17	19	25 76	155	16 53	13 97	2 1	1 3	19	5	121	06	2	1 0	0 7	0	DEP I
		11	2239	18.31	19	25.04	155	16 95	11.17	2.0	1 2	22	4	62	.12	0	0.7	0.8	0	INT L
		11	2316	28.80	19	25 23	155	16.93	12.03	2.0	1.1	17	4	98	08	1	0.9	0 6	0	INT I
		11	2344	45 36	19	24 22	155	17 17	14.93	2 0	1 1	17	4	67	.12	1	1.0	1 0	0	DEEP L
		12	019	8.35	19	25.38	155	16.37	15 35	2.1	1 3	20	5	116	.10	1	1 1	0 9	0	DEEP L
		12	059	5 93	19	25 19	155	15 32	13.80	2 0	1.2	18	3	144	08	2	0 9	1.0	0	DEEP L
		12	157	13.63	19	25.40	155	16.01	12.73	2.1	1.1	17	3	128	06	2	1.2	0.8	0	INT I
		12	249	8.54	19	25.34	155	16.63	13.06	2.1	1.5	19	4	108	08	1	0.8	0.7	0	DEEP L
		12	325	39 86	19	25 22	155	16 61	11.68	1.9	1.1	19	4	105	10	1	0.8	0 9	0	INT L
		12	428	14 31	19	24.25	155	17 25	11.15	2.2	1.4	21	5	62	08	1	0.6	0.8	0	INT L
		12	515	40 33	19	25 23	155	16 59	15.51	1 9		17	4	105	.09	1	1 5	1 1	0	DEEP L
		12	6 3	11.76	19	24.77	155	16.41	14.69	2 0	1 2	20	4	96	09	1	0 8	0.8	0	DEEP L
		12	7 0	24.71	19	24.92	155	16.76	13.11	2.0	1.2	20	5	94	11	0	1.2	0.9	0	DEEP L
		12	724	44 37	19	18 59	155	24 35	8.77		1.2	22	5	77	.09	4	0 4	0 9	0	SWR
		12	823	28 23	19	23 38	155	2.40	6.88	1.7	1 6	24	4	126	.12	3	0 5	0.9	0	SPS
		12	826	22 47	19	26 11	155	15.50	14.65	2 0	1 1	8	2	219	03	4	2 0	1.2	0	DEEP L
		12	857	42.87	19	25.02	155	16.12	12.85	2.3	1.5	20	4	111	.09	2	0.7	0.9	0	INT L
		12	1115	56.94	19	25 06	155	16.87	11.91	1.8	0.9	13	2	96	.07	0	1.1	1.4	0	INT I
		12	1249	5 46	19	23 90	155	16.03	13.57	2.0	1 1	17	4	108	09	1	0.8	0.8	0	DEEP L
		12	1340	37 20	19	11 00	155	29.96	8.82		1 5	21	5	191	10	5	0 6	0.9	0	LSW
		12	1418	26 55	19	25 87	155	16 42	14.56	2.1	1 3	17	4	128	06	2	1.2	0.9	0	DEEP L
		12	1540	1.26	19	25.26	155	16.30	13.75	1.8	1.0	19	4	115	.09	1	1.1	0.9	0	DEEP L
		12	1558	14 60	19	23.58	155	16 93	3.00	2.6	1.7	29	8	46	07	0	0.2	0.2	0	SSC
		12	1651	31 76	19	24 33	155	16 63	13.56	2 0	1.3	15	3	111	18	1	1.1	1 4	0	DEEP L
		12	1757	19 23	19	25 20	155	16 03	13.83	2 1	1.2	19	3	121	10	2	0 9	0 9	0	DEEP L
		12	1839	21 68	19	23 85	155	18 01	14.70	2.2	1 3	16	4	94	14	2	1 9	1 3	0	DEEP L
		12	19 7	45 51	19	24.37	155	16.83	1.75	2.0	1 2	16	4	99	.12	1	0.3	0.3	0	SSC L
		12	20 0	56 99	19	25 05	155	16 97	10 69	2 0	1 2	18	3	93	09	0	0 8	0 7	0	INT L
		12	2042	6 63	19	25 28	155	16 74	12.78	2 0	1 1	19	4	103	08	1	1 0	0.8	0	INT L
		12	2153	30 11	19	24.76	155	17 31	12.50	2.0	1.3	19	4	52	11	1	0 8	0.9	0	INT L
		12	2227	52 70	19	25 52	155	15 23	12.82	1.9	1.1	13	2	165	09	2	1 8	1 3	0	INT L
		12	2313	29 90	19	25 54	155	15.69	17.29	2.4	1 6	18	4	145	.11	3	1 2	1 1	0	DEEP L

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NF	GAP NS	DMG	RMS SEC	MIN DIS	ERH KM	ERZ KM	MD FM	NO
1991	JAN	13	142	37.17	19	25.62	155	16.52	12.11	2.1	1.3	17	3	118	11	2	1.0	0.9	0	HVO
		13	157	43.75	19	26.25	155	15.94	12.71	2.1	1.2	15	3	159	11	3	1.5	1.0	0	HVO
		13	215	22.84	19	26.00	155	16.72	15.61	2.1	1.1	17	3	119	08	2	1.1	0.9	0	DEP
		13	219	14.79	19	24.23	155	17.22	13.90	2.1	1.3	19	4	63	13	1	1.1	0.9	0	DEP
		13	226	49.11	19	25.14	155	19.35	6.28	1.9	1.1	26	4	70	10	3	0.4	0.8	0	KAO
		13	229	15.31	19	24.99	155	19.58	5.90	2.3	1.3	30	7	65	11	2	0.4	0.7	0	KAO
		13	315	8.39	19	25.35	155	15.76	16.61	2.2	1.4	18	3	135	14	2	1.3	0.9	0	DEP
		13	340	14.97	19	23.69	155	17.37	14.82	2.3	1.3	17	4	90	14	1	1.8	1.4	0	DEP
		13	432	24.04	19	25.35	155	16.82	10.73	2.0	1.3	16	3	102	08	1	0.7	1.0	0	HVO
		13	529	58.83	19	24.04	155	16.48	15.03	2.2	1.3	14	3	74	12	0	1.4	0.8	0	DEP
		13	6	9 5.73	19	20.44	155	11.41	7.67	1.6	1.6	32	3	77	13	4	0.6	0.9	0	SP3
		13	621	34.00	19	24.79	155	16.48	12.75	2.4		23	5	96	08	1	0.7	0.8	0	HVO
		13	639	12.82	19	15.88	155	27.40	9.89	2.0	1.8	34	4	69	11	5	0.3	0.6	0	ISW
		13	942	30.77	19	23.78	155	17.26	12.77	1.8	0.9	12	2	82	09	1	0.9	1.4	0	HVO
		13	1123	43.95	19	24.92	155	16.81	13.32	2.0	1.2	21	5	93	07	0	1.1	0.7	0	DEP
		13	1338	53.94	19	25.77	155	16.99	9.90	2.0	1.3	20	1	63	14	1	0.7	0.9	0	HVO
		13	1428	31.89	19	21.43	155	13.54	18.70	2.2	1.2	15	3	104	18	7	2.1	1.1	0	DEP
		13	1456	11.02	19	36.03	155	55.89	21.40		1.8	26	4	232	11	13	1.4	1.1	0	KOH
		13	1516	19.15	19	24.50	155	16.65	11.42	2.1	1.2	22	3	85	17	1	0.7	0.7	0	HVO
		13	19	5 9.58	19	26.04	155	20.29	8.25	1.7	0.9	17	3	76	22	3	0.9	1.7	0	KAO
		13	1936	6.44	19	22.64	155	14.35	3.36	1.6	1.3	22	6	90	07	2	0.3	0.3	0	SDL
		13	1950	58.10	19	25.93	155	15.90	13.34	2.1	1.3	16	4	151	09	3	1.3	0.9	0	DEP
		13	1953	32.89	19	24.76	155	11.75	17.42	1.8	1.0	9	1	296	16	8	3.0	1.7	0	DEP
		13	2024	32.30	19	24.87	155	16.41	16.31	1.8	1.1	13	2	100	15	2	1.7	1.3	0	DEP
		13	2141	28.97	19	24.10	155	18.35	10.57	2.0	1.2	13	2	75	15	2	1.3	1.7	0	HVO
		13	2152	30.67	19	22.73	155	30.10	8.96	1.7	1.5	31	4	45	11	4	0.4	0.7	0	KAO
		13	22	5 2.60	19	25.13	155	16.19	14.63	1.9	1.0	18	5	113	10	2	1.4	1.0	0	DEP
		13	2252	14.05	19	25.14	155	16.63	15.15	2.0	1.3	18	5	103	09	1	1.3	1.0	0	DEP
		14	1	0 46.24	19	24.90	155	17.09	11.99	2.0	1.2	15	3	81	12	0	1.4	1.3	0	HVO
		14	445	13.61	19	24.98	155	16.50	15.13	2.3	1.4	16	4	101	04	1	1.4	0.9	0	DEP
		14	522	42.80	19	25.34	155	16.47	13.75	2.1	1.4	16	5	112	10	1	1.4	0.8	0	DEP
		14	549	48.82	19	24.45	155	16.15	14.21	1.9	0.9	14	3	130	14	3	1.1	0.9	0	DEP
		14	619	50.71	19	25.71	155	15.47	15.35	1.9	1.0	13	3	172	08	4	1.2	0.6	0	DEP
		14	647	22.10	19	25.31	155	15.87	14.26	1.9	1.0	12	4	130	11	3	1.4	0.9	0	DEP
		14	650	45.30	19	19.60	155	11.74	8.13	2.4	2.3	42	6	91	11	6	0.4	0.7	0	SP3
		14	729	27.84	19	25.61	155	15.33	14.55		1.0	11	2	164	06	2	1.2	1.2	0	DEP
		14	833	25.69	19	17.00	155	13.14	7.05	1.6	1.5	36	7	180	10	1	0.5	0.7	0	SP2
		14	9	3 8.77	19	13.06	155	23.39	36.28	2.5	2.1	54	10	155	11	3	0.7	0.9	0	DEP
		14	946	35.82	19	25.45	155	18.33	14.48	2.1	1.3	17	2	79	09	1	0.9	0.8	0	DEP
		14	1056	40.83	19	25.12	155	19.31	5.95	2.1	1.2	28	6	70	10	3	0.4	0.7	0	KAO
		14	1151	58.66	19	26.01	155	16.58	12.52	1.8	1.1	17	5	158	08	2	1.0	0.7	0	HVO
		14	1219	30.81	19	24.89	155	16.46	12.33	2.0	1.3	22	4	100	10	1	0.6	0.9	0	HVO
		14	1513	27.73	19	25.55	155	17.45	16.88	2.2	1.1	14	2	162	05	0	1.2	0.8	0	DEP
		14	16	0 26.27	19	26.04	155	21.66	11.10	2.4	2.0	47	11	44	11	3	0.4	0.6	0	KAO
		14	1630	32.29	19	25.21	155	17.19	13.04	2.0	1.3	18	3	91	11	1	1.3	1.2	0	DEP

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NF	GAP NS	DMG	RMS SEC	MIN DIS	ERH KM	ERZ KM	MD FM	NO
1991	JAN	14	1728	13.93	19	24.12	155	15.61	9.75	1.7	1.0	14	4	126	09	2	1.3	0.9	0	HVO
		14	1814	33.50	19	19.86	155	10.78	8.01		1.4	28	7	89	.04	4	0.4	0.7	0	SP3
		14	1846	39.49	19	26.57	155	28.69	10.05	1.7	1.4	29	6	47	10	7	0.4	0.9	0	KAO
		14	21	8 45.97	19	25.34	155	16.31	13.52	2.0	1.2	21	5	117	.11	1	1.1	1.0	0	DEP
		14	23	4 26.78	19	25.09	155	14.79	14.10	2.1	1.3	20	5	192	10	1	1.1	0.5	0	DEP
		15	030	18.90	19	57.45	155	24.61	37.86	2.9	2.5	67	18	186	11	20	0.6	1.0	0	KEA
		15	224	27.36	19	24.73	155	17.36	16.85	2.1	1.2	19	5	68	10	1	1.1	0.9	0	DEP
		15	328	22.07	19	20.06	155	10.27	8.38	1.6	1.6	34	2	84	10	4	0.4	0.6	0	SP3
		15	343	36.74	19	25.27	155	29.52	9.95	2.2	1.9	39	5	39	08	6	0.3	0.8	0	KAO
		15	436	29.76	19	24.99	155	17.51	14.15	1.8	1.2	19	5	80	.12	1	1.0	0.9	0	DEP
		15	629	48.19	19	23.31	155	16.75	12.84	1.5	1.0	14	3	93	10	0	1.0	1.3	0	HVO
		15	629	58.08	19	25.03	155	16.45	12.45	2.0	1.1	15	4	104	09	1	1.1	1.0	0	HVO
		15	10	9 3.03	19	51.68	155	42.32	35.92		1.9	32	4	236	.08	5	0.9	1.1	0	KEA
		15	1014	35.33	19	19.63	155	17.31	30.83	1.5	2.2	45	8	92	10	1	0.6	0.9	0	DEP
		15	1015	49.60	19	12.94	155	23.33	35.16	2.5	2.2	44	7	156	.10	3	0.8	1.0	0	DEP
		15	1020	51.04	19	25.32	155	19.00	6.77		1.3	27	7	76	13	2	0.5	0.8	0	HVO
		15	1214	21.64	19	21.99	155	10.85	2.56		1.4	18	1	109	11	2	0.4	0.5	0	SBR
		15	1626	48.33	19	26.86	155	15.17	17.12	0.8	1.2	15	1	190	11	3	1.4	1.4	0	DEP
		15	19	7 47.56	19	25.34	155	49.88	9.31		1.8	32	3	115	18	12	0.6	0.8	0	KOH
		16	012	59 31.19	19	25.46	155	16.42	13.85		0.9	14	2	138	06	2	1.0	1.0	0	DEP
		16	039	12.74	19	23.29	155	30.01	11.63		0.7	15	4	65	.12	4	0.6	1.1	0	KAO
		16	154	20.17	19	25.59	155	16.87	13.93		1.2	15	4	106	09	1	1.5	0.7	0	DEP
		16	645	56.03	19	25.36	155	16.11	13.98	1.1	1.2	18	3	124	08	2	0.8	0.8	0	DEP
		16	854	48.14	19	27.28	154	52.77	6.13		1.7	27	4	149	11	3	0.8	1.2	0	LEH
		16	1636	37.60	19	26.43	155	16.29	12.40	2.1	1.4	12	2	188	08	3	1.2	0.8	0	HVO
		16	1646	1.64	19	22.30	155	29.91	10.29		1.1	25	1	45	.05	4	0.4	0.8	0	KAO
		16	2234	1.22	19	24.51	155	17.91	17.93	2.2	1.4	18	4	72	12	2	1.0	1.4	0	DEP
		17	358	6.78	19	25.20	155	16.52	12.72	2.0	1.1	19	4	107	09	1	0.7	0.9	0	HVO
		17	533	32.63	19	20.40	155	13.55	8.06		1.2	26	5	66	.10	4	0.5	0.8	0	SP2
		17	618	22.90	19	24.45	155	17.02	1.98	2.2	1.3	13	2	79	.07	1	0.3	0.3	0	SSC
		17	17	4 17.99	19	24.02	155	17.12	12.41	2.1	1.3	16	2	68	10	1	0.8	1.2	0	HVO
		18	4	7 50.91	19	24.91	155	16.42	13.62	2.0	1.1	20	3	100	08	1	0.7	1.0	0	DEP
		18	841	38.31	19	24.29	155	17.25	14.03	1.8	1.1	21	5	73	11	1	0.7	0.9	0	DEP
		18	1140	14.05	19	22.90	155	11.38	17.83	2.2	1.0	12	1	289	.12	8	2.7	1.1	0	DEP
		18	1513	27.90	19	50.40	156	42.98	7.39		2.0	27	2	330	.12	92	9.2	12.0	0	DTS
		19	132	21.76	19	18.10	155	23.55	9.09	2.2	2.0	51	5	91	13	4	0.4	0.6	0	SAN
		19	935	57.41	19	22.14	155	29.02	9.76	2.2	1.9	39	2	40	09	3	0.3	0.7	0	KAO
		19	947	52.30	20	5.90	155	48.58	32.43		1.7	27	4	213	09	5	1.6	1.0	0	KOH
		19	1238	11.57	19	25.05	155	16.91	13.34	2.2	1.3	18	2	94	.08	1	0.8	1.4	0	DEP
		19	1416	53.76	19	37.26	155	6.97	20.10	1.9	1.8	35	7	106	10	11	0.6	1.3	0	HIL
		19	1618	42.44	19	12.08	155	28.16	6.27		1.6	16	3	99	.16	5	0.5	1.4	0	ISW
		19	2136	43.16	19	21.53	155	24.99	46.27		1.5	33	5	43	11	4	1.0	1.2	0	DEP
		20	252	3 22.19	33	78	154	50.15	16.31	2.2	2.2	47	8	238	11	7	1.2	0.7	0	HIL
		20	12	7 30.45	18	41.97	156	52.62	27.40		1.9	21	3	336	37.23		2.5	5.2	0	DTS
		20	2115	57.81	19	55.07	155	26.32	31.90	3.0	2.3	55	8	175	11	15	0.6	1.4	0	KOH

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NF	GAP NS	DMS DEG	MIN SEC	ERH DIS	KM	ERZ KM	ND FM	REMK
1991	JAN	20	2122	3.77	19	23.23	155	17.66	7	54 0.9	1.3	16	1	66	07	1	0.6	1.1	0	HVT L
		21	1149	30.24	19	25.66	155	29.60	9	22 2.0	1.6	33	5	40	13	7	0.4	0.9	0	KAO
		21	1356	56.28	19	23.64	155	16.81	11	40 2.1	0.9	8	2	113	14	1	2.7	1 1	0	HVT L
		21	1731	38.76	19	13.20	155	22.97	34	84 2.3	1.9	40	5	156	10	3	0.8	1.2	0	DEP
		22	331	28.20	19	28.55	155	27.89	10	06 2.3	1.4	33	8	70	.11	6	0.4	0.8	0	KAO
		22	350	56.94	19	20.68	155	7.55	6	91 2.2	2.0	42	6	87	11	5	0.4	0.7	0	SP4
		22	1058	22.14	19	18.81	155	10.86	6	30 2 7	2.8	45	9	118	.10	6	0.4	0.8	0	SP3 L
		22	1723	52.75	19	18 25	155	13.12	7	29 1.6	1.4	32	2	96	12	2	0.5	0.9	0	SP2
		22	2340	25.16	19	11.90	155	31.78	6	69 1.3	1.6	31	3	88	.13	7	0.4	1.3	0	KSW
		23	535	51.20	19	20.21	155	7.01	8	23 1.8	1.8	34	5	104	11	6	0.5	0.7	0	SP4
		23	10 0	21.09	19	25.93	155	16.38	15	18 2 1	1.2	10	2	189	08	2	2.6	1.1	0	DEP L
		23	1123	22.23	19	22.02	155	30.15	11	01 1 7	1.4	31	6	46	06	5	0.3	0.6	0	KAO
		23	1957	33.04	19	22.78	155	6.13	1	10 1.6	1.6	10	2	208	10	3	0.7	0.9	0	SME
		24	315	51.91	19	26.28	155	15.68	1	49 2.4	1.5	24	7	159	08	3	0.3	0.4	0	SMC
		24	557	49.79	19	23.11	155	3.07	6	97 1.1	1.6	29	2	114	12	3	0.4	0.8	0	SP5
		24	1039	24.13	19	27.80	155	25.47	3	40	1.0	21	4	67	12	5	0.3	1.0	0	KAO
		25	243	25.91	19	22.09	155	29.26	9	32	1.5	37	4	44	12	3	0.4	0.7	0	KAO
		25	4 5	45.70	19	19.73	155	8.87	7	37 1.6	1.7	46	6	76	11	5	0.4	0.7	0	SP4
		25	1241	14.43	20	9.95	155	45.43	30	56 2.4	2.2	42	8	274	10	5	1.0	0.8	0	KPH
		25	1322	51.95	19	44.40	155	45.08	23	82	1.6	31	5	119	.11	11	0.6	1.2	0	HUA
		25	2021	8.45	19	20.91	155	13.16	8	36	1.4	31	4	60	10	3	0.5	0.7	0	SP2
		25	21 0	17.51	19	20.62	155	11.60	7	88 2.4	2.4	41	7	74	14	4	0.4	0.7	0	SP3
		26	5 6	53.95	19	26.87	155	28.69	8	52 1.7	1.5	34	3	50	11	7	0.4	0.9	0	KAO
		26	559	48.62	19	27.27	155	30.24	9	42	1.3	30	4	49	11	6	0.4	0.9	0	KAO
		26	1148	55.50	19	24.71	155	16.86	1	80 1.8	1.3	19	4	87	.11	0	0.3	0.2	0	SMC L
		26	1642	53.72	19	17.61	155	50.66	3	42	1.5	21	2	155	14	4	1.6	3.5	0	KUM
		26	1720	35.18	19	27.63	154	49.06	11	10 1.2	1.6	22	0	269	.13	4	1.8	0.4	0	HER
		27	151	41.73	19	26.32	155	29.09	8	55 2.1	1.9	37	7	46	.11	7	0.3	0.8	0	KAO
		28	739	14.20	19	20.21	155	7.76	7	76 2.4	1.5	21	1	91	09	5	0.6	1.1	0	SP4
		28	2025	27.62	19	24.27	155	17.10	2	56 2.0	1.2	13	3	75	.12	1	0.5	0.4	0	SSC L
		29	1541	10.12	19	22.61	155	14.29	3	33 1.3	1.2	14	3	90	03	2	0.4	0.3	0	SSC
		29	2236	35.32	19	26.61	155	28.70	10	22 1 7	1.3	30	8	47	09	7	0.4	0.8	0	KAO
		30	1020	12.14	19	25.53	155	16.56	13	79 2.0	1.3	15	3	114	08	1	0.9	0.8	0	DEP L
		30	1823	48.64	19	27.22	154	53.21	5	86 0.8	1.5	24	1	158	11	4	0.7	1.3	0	HER
		30	2052	59.37	19	18.47	155	24.59	9	55	1.2	20	2	75	.09	4	0.5	1.1	0	SMR
		30	23 2	16.66	19	25.32	155	16.60	8	42 2.1	1.4	14	2	107	14	1	0.9	0.9	0	HVT L
		31	658	52.97	19	20.14	155	7.04	9	07 2.2	2.3	45	7	105	10	5	0.4	0.6	0	SP4
		31	847	45.43	19	26.72	155	23.91	8	31 1.8	1.0	20	5	79	.09	4	0.4	0.8	0	KAO
		31	9 1	11.08	19	29.90	155	27.91	5	27 2.1	1.6	27	5	85	08	4	0.3	1 5	0	KAO
		31	1015	53.65	19	13.57	155	23.29	35	30 2.4	2.1	39	2	152	.10	2	0.8	1.5	0	DEP
		31	2015	44.24	19	19.14	155	8.54	6	86	1.5	23	2	84	11	3	0.6	1.2	0	SP4
		31	2023	15.25	19	45.16	155	27.12	20	34 2.2	1.6	34	7	156	09	17	0.6	1.5	0	KEA
		31	2114	36.64	19	24.42	155	20.91	34	76 1.9	1.7	37	8	46	.10	2	0.7	0.9	0	HML
		31	2132	1.19	19	13.30	155	23.41	36	40 2.3	1.9	42	7	154	10	2	0.8	1.0	0	DEP
	FEB	1	4 3	19.39	19	27.19	155	25.72	3	15 1.5	1.2	31	6	60	.13	4	0.3	0.7	0	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NF	GAP NS	DMS DEG	MIN SEC	ERH DIS	KM	ERZ KM	ND FM	REMK
1991	FEB	1	713	40.03	19	27 00	155	28 48	8.77		1 3	27	4	56	.12	7	0 4	1 1	0	KAO
		1	1029	27.95	19	17 80	155	29 82	9.86	2 2	2 1	35	2	62	.13	5	0.4	0 9	0	LSW
		1	1123	3.73	19	20.65	155	6 61	8.61		1 3	13	1	99	05	5	0.6	1.4	0	SP4
		1	14 4	6 76	19	24.34	155	16 93	2.08	2.1	1.2	20	6	79	09	1	0.2	0.2	0	SSC
		2	3 3	55.87	19	24.52	155	16 68	1.97	1 6	1.1	14	5	85	.17	1	0 5	0.4	0	SSC L
		2	4 3	40 93	19	23 08	155	14 80	3.39	2 6	1.5	19	5	87	08	2	0.3	0 4	0	SBC
		2	746	1.89	19	26 09	155	20 22	8.96	1 9	1 2	26	5	79	.10	3	0 4	0 6	0	KAO
		2	1237	22 52	19	15.92	155	14 06	6.37	1 9	1.7	33	4	217	09	3	0.6	0 8	0	SP1
		3	014	3 08	19	11 99	155	30 78	9.99	2.1	2 0	29	3	150	.12	6	0 6	0 9	0	LSW
		3	131	51 38	19	21 70	155	7 31	6.64	2 1	2 1	45	4	75	.13	3	0 4	0.7	0	SP4
		3	520	52 62	19	28 29	155	37 62	13.72	2.2	1.3	21	2	216	11	3	1 2	0.6	0	LMI
		3	955	21 90	19	25 26	155	18 18	18.55	2.0	0 9	8	1	106	19	1	2 1	2.9	0	DEP L
		3	1031	23 41	20	11 07	155	37 85	32.29		1 7	22	4	241	.11	17	1 4	1 7	0	KPH
		3	15 7	50 56	19	10 82	155	35 54	0.01	2 5	2 2	42	7	100	15	12	0 5	0 2	0	LSW
		3	17 7	16.71	19	13 41	155	23.21	36.39	2.3	1.8	41	5	154	.10	2	0 8	1.1	0	DEP
		3	1744	27 27	19	22 35	155	29.99	9.91		1.3	26	2	45	08	4	0 4	0.7	0	KAO
		4	017	13 77	19	16 77	155	18.01	28.53		1 3	29	5	161	.06	2	0.9	0.8	0	DEP
		4	521	47 86	19	18 84	155	12 97	8.12		1.2	28	5	88	.09	3	0 5	0 8	0	SP2
		4	542	9 68	19	24 25	155	16 41	12.64	2.0	1.2	15	3	88	16	1	1 3	1 1	0	HVT L
		4	948	12.97	19	19.74	155	12 49	6.80	1 8	1.4	29	2	80	11	5	0 5	0.8	0	SP2
		4	1347	15.24	19	20 40	155	12 96	8.19	2 0	1.7	43	6	67	11	4	0.4	0 6	0	SP2
		4	15 9	25 66	19	21.61	155	12 66	2.69	1 7	1 1	22	5	92	06	2	0 4	0 4	0	SER
		4	15 9	41.20	19	21.75	155	12 65	2.92	1.8	1 3	21	3	97	10	2	0 4	0 4	0	SER
		4	17 7	33 47	19	19 68	155	12 16	7.87	1 9	1 7	35	4	85	.11	5	0 5	0 7	0	SP3
		4	1816	26.34	19	45 61	155	1 47	0.00	2.5		10	0	290	.35	8	6.4	9 3	0	HIL 67
		4	19 3	8 95	19	25.93	155	14 78	9.07	2 0	1.2	11	2	136	15	2	1 3	1 8	0	HVT L
		5	645	34 92	19	24 97	155	18.16	12.67	1.9	1.1	13	3	157	.15	1	2.9	1 3	0	HVT L
		5	1353	33 80	19	23.62	155	16 16	9.87	1.9	1.1	14	4	115	.12	2	0.7	1 0	0	HVT L
		5	1442	13 40	19	45 24	156	5.64	37.35	2 5	2 1	43	4	242	11	28	1 4	1 0	0	HUA
		5	1726	37.97	19	25.35	155	16 06	16.22	2.0	0.9	9	2	264	.08	3	2.7	1 4	0	DEP L
		5	21 1	47 62	19	24.50	155	14.61	15.48	2 1	1 1	19	4	117	.10	1	1.3	0.7	0	DEP L
		5	22 5	22 96	19	25 46	155	16 93	11.73	1.9	0.9	17	3	102	.09	1	0 9	0.7	0	HVT L
		6	518	19 78	19	25.27	155	29 56	9.79	1 7	1 5	28	4	49	.09	6	0.4	0.8	0	KAO
		6	626	15 58	19	25 11	155	16.56	15.64	2.1	1 0	16	4	103	12	1	1.3	0.7	0	DEP L
		6	8 2	34.84	19	21.41	155	4 10	6.79		1 4	24	5	90	.13	3	0.5	0.9	0	SP5
		6	939	29 81	19	25 19	155	14.07	16.48	2 2	1 0	14	3	255	10	6	1.8	0 8	0	DEP L
		6	1232	2 76	19	24.58	155	17.10	13.89	2 0	1 0	17	5	80	.11	1	1.5	0 8	0	DEP L
		6	1455	20.94	19	19.66	155	11 35	7.26	1.6	1.5	32	3	92	.12	5	0 5	0.9	0	SP3
		6	2141	57 55	19	22 15	155	13 12	3.49	1.7	1.4	23	7	93	08	1	0 4	0 3	0	SER
		6	2243	4 96	19	24.30	155	16.96	10.75	1 8	1.0	15	2	77	.18	1	1.0	1 4	0	HVT L
		7	422	51 71	19	19.23	155	13 51	9.51	2 6	2 8	55	10	70	.12	4	0.3	0 3	0	SP2
		7	547	7.61	19	18 47	155	13.34	7.49	1 9	1.7	40	7	83	.12	3	0.4	0 6	0	SP2
		7	6 1	7 80	19	21.77	155	7.03	7.31	1.7	1.5	35	5	77	.12	3	0.4	0.8	0	SP4
		7	756	47 53	19	20 30	155	13 28	8.06		1.1	21	3	64	06	4	0 4	0 8	0	SP2
		7	8 6	29 56	19	25.00	155	2.06	5.09	1.7	1.5	30	4	103	.10	4	0.4	1 2	0	SP5

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NF	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	FEB	7	1423	48.63	19	24.38	155	25.45	10	18 1.9	1.4	29	3	34	11	2	0.4	0.6	0	KAO
		7	2043	10.30	19	25.10	155	16.30	13	28 2.0	1.0	22	3	109	11	1	0.8	0.8	0	DEP I
		7	21 0	5.22	19	23.61	155	15.43	2	99 2.3	1.5	37	8	59	.10	2	0.2	0.3	0	SBC
		7	2138	38.29	19	25.39	155	16.38	13	50 1.8	0.9	14	2	16	.03	1	1.1	0.9	0	DEP I
		7	2255	26.94	19	22.66	155	3.06	7	76 1.7	1.8	42	5	119	10	4	0.4	0.5	0	SP5
		8	650	16.85	19	26.00	155	30 22	10	78 1.7	1.2	25	3	40	08	5	0.4	0.9	0	KAO
		8	722	7.38	19	23.11	155	2.78	7	32	1.5	38	2	115	14	3	0.5	0.6	0	SP5
		8	10 5	45.02	19	48.23	156	9.72	37	49 3.6	3.2	52	7	254	12	43	1.0	1.3	0	HUA
		8	1058	30.12	19	25.12	155	38.69	3	23 2.3	1.7	15	2	214	.08	6	1.0	1.7	0	MLO
		9	2 6	45.61	19	19.96	155	12.27	8	15 1.9	1.9	54	7	80	13	5	0.4	0.5	0	SP3
		9	327	46.00	19	25.28	155	15.86	15	02 2.4	2.0	55	9	55	10	2	0.4	0.2	0	DEP
		9	812	54.41	19	18.69	155	26.47	10	15	1.3	32	4	55	10	6	0.4	0.8	0	ISW
		9	2249	34.59	19	22.05	155	13.30	3	27 2.1	1.6	45	8	50	09	1	0.3	0.4	0	SBR
		10	1054	17.71	19	22.30	155	2.75	7	92 1.9	1.7	42	6	128	13	4	0.5	0.6	0	SP5
		10	1622	29.33	19	9.73	155	26.21	31	88 1.9	1.8	43	5	165	09	3	0.8	1.2	0	DIS
		10	17 2	30.68	19	26.01	155	15.19	0	86 1.9	1.5	19	4	166	11	3	0.3	0.4	0	SBC
		10	1750	25.86	19	23.84	155	16.88	14	16 2.2	1.3	18	4	68	.09	0	0.8	0.9	0	DEP I
		10	1844	58.45	19	23.14	155	10.87	1	74 1.8	1.3	14	3	128	11	3	0.5	0.7	0	SBR
		10	2037	51.47	19	21.68	155	30.21	9	66	1.2	30	2	46	07	5	0.4	0.6	0	KAO
		10	2220	6.61	19	23.95	155	15.85	2	91 2.1	1.6	28	8	74	.10	1	0.2	0.3	0	SBC
		11	357	58.75	19	22.76	155	2.57	7	57 1.7	1.6	36	5	130	10	4	0.6	0.5	0	SP5
		11	444	43.44	19	22.71	155	14.62	3	17 1.6	1.3	19	5	77	08	2	0.3	0.4	0	SBC
		11	450	24.83	19	22.82	155	14.61	3	39 1.9	1.3	22	5	73	06	2	0.3	0.3	0	SBC
		11	941	37.19	19	20.10	155	13.21	6	17 1.8	1.5	32	4	67	11	5	0.4	0.9	0	SP2
		11	1049	11.13	19	19.48	155	7.41	7	10	1.5	23	5	110	.08	4	0.5	0.9	0	SP4
		11	1123	58.91	19	13.04	155	41.46	5	83 3.5	3.8	51	7	113	20	8	0.6	1.2	0	ISW F
		11	1153	52.04	19	15.40	155	20.27	7	12 1.6	1.5	22	2	156	08	6	0.6	1.0	0	SMR
		11	1637	33.63	19	15.51	155	19.99	6	19	1.1	19	1	152	.08	5	0.6	1.4	0	SBR
		11	2138	46.42	19	23.10	155	3.09	7	68 0.8	1.5	33	0	151	13	3	0.5	0.6	0	SP5
		11	2346	53.34	19	25.40	155	17.64	11	54 2.0	1.1	14	2	79	12	0	1.0	1.1	0	TMT L
		13	714	26.69	19	20.82	155	13.00	8	56 1.2	1.4	27	4	66	10	3	0.5	0.7	0	SP2
		13	1113	30.05	20	0.18	155	19.90	8	76 2.2	2.0	29	4	209	09	28	0.8	0.9	0	KHA
		13	1336	45.89	19	20.76	155	7.67	7	51 2.7	2.9	53	12	85	11	5	0.4	0.6	0	SP4
		13	1612	22.96	19	23.20	155	17.86	14	39 2.0	1.3	12	1	68	09	2	0.9	1.3	0	DEP L
		14	054	40.11	19	12.55	155	28.15	8	07 2.6	2.7	45	2	145	14	6	0.6	0.8	0	ISW F
		14	057	43.85	19	10.85	155	28.38	6	09 2.8	2.8	72	28	89	17	3	0.3	0.7	0	ISW F
		14	1016	50.91	19	11.55	155	28.46	5	07 2 1	1.6	34	3	96	15	4	0.5	1.8	0	ISW
		15	5 8	52.51	19	25.65	155	16.00	14	28 2 0	0.9	10	2	194	03	3	1.4	0.8	0	DEP I
		15	717	35.40	19	21.75	155	30.09	9	06 1.7	1.5	37	4	61	10	5	0.3	0.7	0	KAO
		15	1639	34.95	19	24.03	155	36.95	11	11	1.4	30	3	67	.10	6	0.4	1.0	0	MLO
		15	1754	2.55	18	56.61	155	28.47	35	86	1.4	31	3	244	08	21	1.0	1.2	0	DIS
		16	4 8	7.98	19	14.12	155	32.41	36	02 1.3	2.2	28	1	70	.13	8	0.9	1.9	0	DIS L
		16	412	30.04	20	0.32	155	48.75	9	64	1.3	22	0	183	.09	14	1.1	1.6	0	KOH
		16	14 7	29.23	19	25.91	155	24.25	9	14 1.8	1.5	34	5	51	.11	2	0.4	0.9	0	KAO
		18	129	24.92	19	22.99	155	14.53	3	73 2.5	1.9	48	6	48	.12	3	0.3	0.4	0	SBC

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NF	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	FEB	18	245	58 12	19	22 09	155	5 17	6.39		1 5	36	5	74	12	5	0 4	0 7	0	SP5
		18	335	0 56	19	20.46	155	23 94	12.77		1 4	36	3	65	10	1	0 5	0.6	0	SMR
		18	1738	10 28	19	12 65	155	28 19	2.29	2 1	1.0	21	3	105	.11	6	0 4	1 3	0	ISW
		19	1 8	53 43	19	25 27	155	17 76	11.94	1.9	1 1	16	4	94	09	1	1.2	0 7	0	INT L
		19	215	21 20	19	12 91	155	23 44	35.82	2.5	2 3	47	7	156	.10	3	0.6	0.9	0	DEP
		19	8 3	25 04	19	25 66	155	15 86	13.08	2 4	1 5	13	2	144	10	2	1 1	1.0	0	DEP I
		19	855	40.42	19	19 55	155	7 22	7.51	1.7	1 6	29	5	113	.08	4	0 4	0 7	0	SP4
		19	2155	30 59	19	13 36	155	23 09	35 97	2 0	1 7	40	6	156	09	2	0 7	1 0	0	DEP
		20	5 4	55.51	19	19 80	155	17.91	32.80	2.2	1 8	48	6	78	10	1	0 6	0 8	0	DEP
		20	5 5	41.34	19	41.96	155	8 14	19.43	1.9	1.7	40	4	110	13	5	0 9	1 4	0	HIL
		20	1649	46.89	19	25 31	155	13 80	14.65	2 2	1 2	12	1	156	11	6	1 4	1 0	0	DEP L
		20	1714	32.69	19	23 95	155	15 50	11.06	2.1	1.2	15	1	107	28	2	1 8	1 5	0	INT L
		20	2019	25.86	19	19 35	155	9 77	8.18	2.4	2.4	44	6	96	11	5	0 4	0 5	0	SP3
		20	2128	59.96	19	19 21	155	11 54	5.43	1.9	1 5	26	5	100	09	5	0 4	1 2	0	SP3
		21	9 1	50.35	19	22 05	155	10 86	2.74		1.2	12	3	118	10	2	0 6	0 4	0	SBR
		21	952	3.42	19	26 76	154	55 87	5.15	2 3	2 1	32	3	141	12	2	0 6	1 4	0	DPR
		21	1551	59 48	19	12 53	155	1 33	16.47	2 7	2 6	57	11	218	12	14	0.7	1.4	0	DEP
		21	1856	40.76	19	18.82	155	14.97	6.43	1.7	1 4	37	1	92	12	4	0 4	0 8	0	SP1
		22	341	55 36	19	25 37	155	39 58	5.15	2 3	1 5	17	2	204	10	7	1 0	2 4	0	MLO
		22	748	1 83	19	20.10	155	12 99	6.15		1 4	30	2	69	.13	5	0.5	1 1	0	SP2
		22	9 3	22.11	19	20 26	155	12 81	7.42	1 8	1 4	31	2	69	11	4	0 5	0.8	0	SP2
		22	926	36 45	19	24 51	155	17 64	15.63	1.9	1.0	12	2	127	.08	2	1.4	0.9	0	DEP I
		22	1914	22.77	19	21 36	155	5 37	7.11	1.4	1.6	33	2	89	11	5	0 4	0 8	0	SP1
		22	2119	7 56	19	8 66	155	33 76	34.80	2.6	2 3	42	8	130	09	10	0 7	1 2	0	DIS
		23	7 5	7 67	19	11 12	155	36 10	8.12	2.3	2.0	70	5	96	.17	7	0 5	1 4	0	ISW
		23	754	54 04	19	20 71	155	7 81	9.01	3 4	3 7	54	8	84	10	4	0 3	0.5	0	SP4 F
		23	851	56 93	19	25.22	155	16 94	13.56		1.2	14	2	97	.06	1	1.0	1.2	0	DEP L
		23	1047	39.71	19	20.05	155	11.98	9.27	3.0	3.4	50	9	80	11	5	0.4	0 4	0	SP3
		23	1918	44 71	19	21 21	155	5 91	8.41	1.7	1.8	39	6	93	10	5	0.4	0 6	0	SP4
		24	0 4	13.15	19	21.82	155	13 00	3.18	0.9	1.4	25	4	53	.06	1	0 3	0.4	0	SBR
		24	322	54 99	19	19 31	155	10 35	7.19		1 4	23	3	103	.08	5	0 4	1 0	0	SP3
		24	325	8.94	19	10 65	155	41 60	2.24	1.4	2.3	34	4	126	.19	11	0 7	1 3	0	ISW
		24	350	55.13	19	24.02	155	14.36	8.96	0.8	1.2	9	0	247	.07	4	3 0	2.2	0	INT L
		24	518	6 98	19	21.47	155	17.06	31.54	1 0	2.4	52	8	52	11	3	0.6	0.7	0	DEP
		24	646	1 17	19	25 08	155	15 86	14.63		1.5	37	4	76	.08	2	0.4	0 4	0	DEP
		24	724	57.84	19	12 65	155	31 09	9.12		1.5	24	3	145	12	5	0.5	0 9	0	ISW
		24	1252	33.28	18	18.36	155	33.42	6.89		2.1	25	1	322	09	95	8.2	10.8	0	DIS
		24	14 1	28 14	19	18 86	155	13 66	8.05	1.6	1.3	25	2	83	.08	3	0.5	0 9	0	SP2
		24	2213	31.26	19	44.48	155	45 96	20.65	2 6	2.5	50	9	168	10	10	0 5	1.3	0	HUA
		24	23 4	0 63	19	36 15	156	1.35	45.20	3.9	3.8	59	11	226	.10	17	0 7	1.0	0	KOH
		25	030	11.99	19	20 06	155	10.50	7.34	1.9	1.6	35	5	86	10	4	0 4	0 8	0	SP3
		25	1540	23.98	19	30 91	156	25.99	33.78	3.1	2.7	41	2	279	.10	54	1.4	2 3	0	DIS
		26	1755	7 39	19	23 00	155	14.93	2.58	2.5	1.8	39	7	63	.12	2	0.2	0 3	0	SBC
		26	18 9	2 44	19	15 57	155	25 62	8.14		1.2	22	0	71	10	4	0 5	1 2	0	ISW
		26	2123	18 69	19	13 35	155	23 20	35.95	2 4	2.0	50	6	154	10	2	0.6	0 9	0	DEP

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP	RMS SEC	MIN DIS	ERH KM	ERZ KM	ND FM	REMK
1991	FEB	26	2130	24.52	19	13.24	155	22.97	34 80	2.5	2.2	46	12	156	10	3	0.7	0.8	0	PLP
		27	839	15.32	19	24.00	155	30.31	7 19		1.3	26	4	39	.08	5	0.4	0.9	0	KAO
		27	11 6	39.18	19	55.16	155	38.88	13 35	2.5	2.4	37	6	125	11	7	0.4	0.4	0	MTN
		27	13 4	15.72	19	14.92	155	32.08	8 42	2.6	2.6	36	4	120	13	3	0.4	0.9	0	LSW
		27	1654	15.86	19	19.08	155	13.20	5 68		1.3	23	2	79	11	4	0.5	1.2	0	SP2
		27	1811	17.30	19	21.70	155	12.92	2 84	1.4	1.3	11	2	92	03	2	0.5	0.5	0	SER
		27	2016	6.52	19	21.80	155	12.91	2.74	1.7	1.5	20	3	84	.05	2	0.4	0.4	0	SER
		27	2244	32.38	19	27.56	154	53.80	5.24	1.1	1.4	25	4	148	12	3	0.5	1.3	0	HER
		27	2325	33.93	19	21.94	155	13.43	2 99	1 9	1.5	18	4	94	.06	1	0.4	0.3	0	SER
		27	2326	32.34	19	25.99	155	16.07	1 99	2.3	1.4	23	5	86	11	3	0.3	0.4	0	SWR
		28	20 6	35.98	19	51.04	155	37.70	31.24		1.6	28	4	154	06	3	0.8	1.2	0	KEA
	MAR	1	213	37.23	19	23.27	155	15.02	3 21	2.3	1.7	33	2	57	13	2	0.3	0.4	0	SEC
		1	15 8	4.61	19	26.18	155	14.64	11.99	2.1	1.4	18	4	207	11	3	1.4	1.0	0	INT L
		1	1545	18.07	19	24.02	155	18.84	5 25	1 5	1.0	22	3	54	.16	2	0.5	0.9	0	INT L
		2	1111	10.64	19	23.03	155	14.71	3 19	2.2	1.9	36	5	48	.08	2	0.3	0.3	0	SEC
		3	1613	45.35	19	19.80	155	11.83	6 99	1.9	1.6	32	1	87	11	5	0.4	0.9	0	SEC
		4	1216	59.40	19	23.68	155	15.39	2.89	2.4	1.6	29	8	61	08	2	0.3	0.3	0	SEC
		4	1339	42.81	19	20.68	155	6.10	7.45		1.4	20	0	122	11	6	0.7	1.5	0	SP4
		4	1412	22.57	19	20.70	156	10.98	42.47	3.0	2.6	58	10	259	09	32	0.8	1.0	0	MTN
		4	1538	57.95	18	51.57	155	14.22	45 22	2 7	2.3	51	11	256	10	41	1.0	1.8	0	LOI
		4	2352	29.15	20	18.54	155	51.95	31 56	1.5	1.9	17	4	309	.11	22	1.8	0.8	0	KOH
		4	2355	20.37	19	23.63	155	26.18	7 13	2.1	1.5	39	7	37	11	3	0.3	0.6	0	KAO
		5	151	57.00	19	27.70	154	54.18	1 01	1.1	1.6	26	3	145	12	5	0.4	0.8	0	SLE
		5	525	49.71	19	9.89	155	14.13	55.41			20	2	265	11	13	2.1	1.3	0	LOI
		5	10 0	58.98	19	19.81	155	10.42	8 86		1.3	22	4	90	.05	4	0.5	0.8	0	SP3
		5	1140	28.70	19	16.41	155	29.54	9 69	1.7	1.0	11	5	56	09	3	0.5	1.2	0	LSW
		5	1352	2.56	19	57.75	155	33.22	16 60		1.6	29	5	162	.10	16	0.8	2.2	0	KEA
		5	2018	10.39	19	12.41	155	23.47	35 66		1.6	30	5	173	.11	4	0.9	1.1	0	DEP
		6	415	19.97	19	20.77	155	7.44	7 27	1.7	1.7	32	3	88	.09	5	0.5	0.7	0	SP4
		6	630	31.23	19	19.24	155	15.45	6 33	1.5	1.4	31	4	108	.10	4	0.4	0.8	0	SP1
		6	1312	32.13	19	22.33	155	3.03	6 87	1.7	1.6	26	2	121	14	4	0.5	1.0	0	SP5
		6	1328	58.53	19	22.26	155	2.74	6 50	1.1	1.6	22	4	133	.10	4	0.4	0.8	0	SP5
		6	1519	28.42	19	17.53	155	14.40	5 78	2.1	1.6	35	8	118	.11	2	0.4	0.9	0	SP2
		6	1637	48.07	19	22.93	155	14.75	2 97	2.5	2.3	11	2	88	.10	2	0.3	0.5	0	SEC
		7	023	13.88	19	23.82	155	16.75	10 06	1.9	1.0	10	2	112	.12	0	1.7	1.0	0	INT L
		7	132	24.64	19	18.16	155	15.60	7 49	1.9	1.4	29	5	142	.10	4	0.5	0.7	0	SP1
		7	255	49.25	19	20.87	155	7.30	8.38	2.0	1.8	40	3	87	.09	5	0.4	0.6	0	SP4
		7	258	10.28	19	20.94	155	7.33	8 27	1.7	1.7	42	5	86	.09	4	0.4	0.6	0	SP4
		7	258	51.99	19	20.63	155	7.26	7 39	1.7	1.6	29	3	92	.10	5	0.5	0.8	0	SP4
		7	413	21.88	19	58.45	155	41.71	30.14	4.2	4.2	61	10	131	.10	13	0.5	1.1	0	KOH
		7	644	2.43	19	28.71	155	52.36	10 73	2.8	2.5	34	5	104	.17	5	0.7	0.4	0	MUN
		7	2254	44.95	19	19.75	155	12.45	9 17	2.7	2.9	48	4	81	.11	5	0.4	0.5	0	SP2
		8	840	40.20	19	38.13	156	0.22	26 78		1.5	17	1	270	.14	18	2.0	1.8	0	KOH
		8	1655	43.72	19	25.82	155	18.74	7 19	2.2	1.2	27	5	87	.12	2	0.5	0.8	0	HVP
		8	2141	15.02	20	0.97	155	28.49	42 27		1.8	12	0	298	.10	26	7.9	8.5	0	KEA

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP	RMS SEC	MIN DIS	ERH KM	ERZ KM	ND FM	REMK
1991	MAR	9	1214	3.76	19	16 14	155	33 74	6.55	2 3	2 2	40	3	59	.17	6	0 4	1 6	0	LSW
		9	2220	54.72	19	17.32	155	22 61	34.39	2.5	2 1	48	5	133	.10	5	0.6	1 1	0	DEP
		10	1442	6.32	19	20.05	155	8.00	7.20	1.9	1 8	38	4	87	10	5	0 4	0.6	0	SP4
		10	1628	31 54	19	26 21	155	24 48	8.57	2.1	1 7	37	7	51	10	2	0 3	0 7	0	KAO
		11	052	51 81	19	20 20	155	10 84	6.60	1.9	1.8	30	6	82	12	4	0 4	0.8	0	SP3
		11	5 6	3 12	19	23.87	155	30 80	10.14		1 1	22	3	86	.07	4	0.5	0 9	0	KAO
		11	6 1	55.82	19	14.66	155	34.87	7.17		1 5	31	5	78	.21	4	0 6	1.1	0	LSW
		11	8 9	58 74	19	47 23	155	49 39	28.11		1 7	28	6	240	11	11	1.2	2.0	0	HUA
		11	1421	1 69	19	29 21	155	27 04	6.68	3.3	3.0	58	14	67	13	5	0 3	0 8	0	KAO
		11	1526	45 23	19	22 31	155	30 05	9.76		1.4	28	2	46	07	4	0.4	0 7	0	KAO
		12	434	17 08	19	19 68	155	12 19	7.40		1.2	25	5	85	07	5	0 4	0 9	0	SP3
		12	2136	32.05	19	21 92	155	16 82	25.41	2 3	1 8	44	12	50	09	2	0 6	0.6	0	DEP
		12	2354	32 07	19	25 13	155	50 81	13.68	3 2	2.7	35	5	127	.10	11	0.5	0.3	0	MTN
		13	336	18 58	19	19 64	155	18 70	4.24	1 9	1 9	16	1	101	09	2	0 4	0 9	0	SUR
		13	1027	46.10	19	25.01	155	19.25	4.53	2 1	1.5	25	4	102	.10	3	0 4	0 7	0	KAO
		13	1030	32 91	19	25 02	155	19 06	5.90	2 4	1.6	32	7	89	11	3	0.4	0 7	0	KAO
		13	1036	50 90	19	24.59	155	19.31	4.70	2.0	1.2	20	4	86	.06	2	0 4	0 6	0	KAO
		13	1039	38 47	19	24 87	155	19 07	5.14	2 5	1.7	33	6	76	10	2	0.3	0 7	0	KAO
		13	1040	4 92	19	24 89	155	19 31	4.77	2.3	1.6	28	3	65	12	2	0 4	0 8	0	KAO
		13	1047	22 31	19	24 80	155	19 36	5.09	2 1	1.5	24	6	106	.09	2	0 4	0 7	0	KAO
		13	1047	42 00	19	25.08	155	19.36	4.98	1 9	1.4	20	3	105	10	3	0 5	0 8	0	KAO
		13	1049	24 28	19	24 87	155	18 97	6.21	2 2	1 5	22	4	97	.08	3	0.5	0.9	0	INT
		13	1119	31 93	19	24 63	155	19 22	4.89	1.9	1 2	23	5	88	09	2	0 4	0 6	0	KAO
		13	1127	23 53	19	24 98	155	19 13	5.25	2 0	1 3	23	4	102	12	3	0.4	0.8	0	KAO
		13	1128	56 72	19	24.73	155	19 29	4.74	2.0	1.4	25	7	91	10	2	0.4	0 6	0	KAO
		13	1130	8 10	19	24 60	155	19 34	4.78	1.8	1 2	20	4	99	11	2	0 5	0 7	0	KAO
		13	1133	18 62	19	24 87	155	19.28	5.24	3 1	2.5	39	7	42	10	2	0.3	0.6	0	KAO
		13	15 8	19.21	19	13.52	155	23.20	34.61	2.6	2.4	42	10	153	.10	2	0 8	1 2	0	DEP
		14	129	21 58	19	20.00	155	11 53	6.87	1 6	1.6	27	3	84	11	5	0 5	1.1	0	SP3
		15	252	49 97	19	22.21	155	10 82	3.07	2.0	1.7	16	3	68	07	2	0 4	0 4	0	SWR
		15	733	8 85	20	7.14	156	7 43	27.70	3 2	2 7	36	5	264	14	36	1 3	2 3	0	KOH
		15	1026	27.34	19	19 39	155	11.54	6.21	1.6	1.6	26	3	97	10	6	0 5	1 2	0	SP4
		15	2238	15.06	19	18.48	155	15.15	9.59	2.3	2.3	45	7	135	11	5	0.4	0 5	0	SP1
		16	1421	59 80	19	55 39	155	51 63	45.73		1.7	28	4	286	.09	47	2.2	1 3	0	KOH
		16	2214	42 54	19	21 30	155	18 93	3.50	1 6	1.2	21	5	81	07	3	0.3	0.7	0	SWR
		17	637	3 17	19	13.65	155	23 27	33.11	2 6	2.3	46	12	152	10	11	0 7	0 9	0	DEP
		17	716	56 95	19	15.83	155	32 03	4.93	1.8	1.5	22	4	148	.13	4	0.5	1 4	0	LSW
		17	1028	37 18	19	20.39	155	4.38	5.87		1 9	40	5	119	11	3	0.4	0.8	0	SP5
		18	015	20 15	19	22.59	155	5.11	6.73		1 5	22	2	75	09	4	0.4	1.1	0	SP5
		18	725	17 37	19	23 28	154	59 07	7.15		1 8	33	5	205	12	3	1.0	0 5	0	HER
		18	1157	3 39	19	19.11	155	11 46	4.36		1 4	21	5	105	.09	5	0.5	1 9	0	SSP
		19	1 7	23 15	19	11.77	155	6.85	46.51		1 8	38	4	235	09	11	1 6	0 9	0	DEP
		19	624	11.69	19	26.63	155	28.41	9.66	1.7	1 4	32	6	49	07	6	0.3	0 8	0	KAO
		19	1749	53 90	19	53.51	155	21.36	10 52		1.8	21	2	249	.10	1	1.2	0.4	0	KEA
		20	216	33.52	19	20 00	155	12.82	6.59		1 4	30	5	72	10	5	0.4	0 8	0	SP2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP DEG	DIS	MIN SEC	DIS	ERH KM	ERZ KM	FM	NO REMK
1991	MAR	20	227	33.52	19	17	63	155	16.79	6	47	1.9	1.5	31	6	101	10	3	0.5	0.7	0	SER
		20	539	13.91	19	18	26	155	13.27	7	99	1	1.7	26	3	89	07	2	0.4	0.8	0	SER2
		20	1114	5.45	19	12	67	155	32.18	8	20	2.6	2.4	43	4	91	14	6	0.4	0.8	0	HSW
		20	1558	27.39	19	29	09	155	27.14	3	72	2	2	1.6	26	3	79	.12	5	0.3	1.6	0	HAO
		20	18	1	18.92	19	39	95	156	2.23	14	50		1.6	17	1	309	12	23	4.2	1.2	0	HVA
		21	242	7.27	19	19	64	155	11.68	7	15	2.1	1.8	46	7	90	12	6	0.4	0.6	0	SP3
		21	1344	14.37	18	51	67	155	9.16	10	38		2.1	28	2	273	12	47	1.7	0.8	0	HVI
		21	2141	51.21	19	19	59	155	11.78	5	87		1.4	35	6	91	11	6	0.4	1.0	0	SP3
		21	2258	5.65	19	11	95	155	35.86	8	09	2	2	1	41	2	89	18	6	0.6	1.0	0	HSW
		22	1249	16.11	19	26	87	154	52.83	7	42		1.5	21	3	475	12	3	0.8	1.3	0	LER
		22	1647	2.05	20	3	27	155	38.91	6	21		1.9	23	1	178	14	16	1.3	1.1	0	HVI
		23	1210	24.38	19	24	83	155	17.25	9	73	2.2	1.0	19	3	63	12	0	0.8	1.0	0	TMT
		23	16	5	12.37	19	22	75	155	14.49	3	47	2.0	1.8	34	6	72	11	2	0.3	0.3	0	SDC
		23	1841	59.19	19	58	92	155	48.77	16	70	3.6	3.8	55	7	380	12	17	0.9	3.4	0	MOH
		23	1950	27.17	19	12	47	155	30.44	6	48	1.8	1.5	42	4	140	15	5	0.5	0.9	0	LAU
		23	2227	38.64	19	19	78	155	16.68	33	41	1.9	1.8	57	11	94	10	1	0.6	0.7	0	LER
		24	543	21.29	19	16	25	155	27.29	8	62	1.7	1.7	46	5	61	15	5	0.3	0.7	0	HSW
		24	1344	21.22	19	14	23	155	29.14	9	33		1.3	25	1	77	14	2	0.5	1.1	0	HSW
		24	1859	47.45	19	21	47	155	28.61	4	47	1.6	1.2	22	3	46	13	3	0.4	0.7	0	HAO
		24	1926	12.97	19	19	44	155	10.23	7	81	1.6	1.7	39	4	98	10	5	0.4	0.8	0	SP3
		25	19	35.56	19	19	78	155	11.47	7	97	1.6	1.4	32	4	89	09	5	0.4	0.7	0	SP3
		25	132	27.43	19	19	48	155	46.35	10	84	2.9	2.6	48	6	82	10	12	0.4	0.3	0	MOH
		25	2	7	38.20	19	26	81	155	49.13	7	73		1.2	24	5	405	13	9	0.6	1.6	0	MOH
		25	446	28.46	19	20	36	155	22.64	8	90	1.6	1.2	26	6	112	10	1	0.4	0.8	0	SUM
		25	7	0	29.99	19	19	95	155	6.77	7	40		1.3	27	4	114	09	5	0.5	0.9	0	SP4
		25	1657	17.75	19	20	21	155	7.83	6	71	1.6	1.5	37	4	90	13	5	0.4	0.9	0	SP4
		25	22	3	24.68	19	19	53	155	30.09	9	52	3	3.1	51	6	36	11	7	0.3	0.6	0	KAO
		25	2253	52.29	19	19	85	155	30.07	5	07	2.9	2.9	50	6	34	12	9	0.3	1.5	0	KAO
		26	023	58.93	19	16	77	155	15.34	3	99		1.3	23	0	169	.10	3	0.6	1.2	0	SEP
		26	233	53.45	19	8	98	155	28.06	42	09		1.4	22	2	259	.07	1	1.5	1.6	0	MLS
		26	342	2.44	19	24	64	155	10.81	15	93	2	2	1.2	15	2	294	08	6	2.3	0.6	0	DEP
		26	532	57.09	19	21	23	155	11.49	1	53		1.3	15	3	198	13	3	0.7	0.9	0	SER
		26	533	9.20	19	21	77	155	12.67	3	18	2.0	1.5	26	3	56	05	2	0.3	0.4	0	SER
		26	533	22.36	19	21	86	155	12.53	2	57	2	2.0	30	3	57	.10	2	0.3	0.4	0	SER
		26	533	55.60	19	21	81	155	12.67	4	55	2.6	1.8	35	4	55	12	2	0.4	0.6	0	SER
		26	534	33.70	19	21	97	155	12.49	2	38		1.6	27	4	68	10	2	0.4	0.3	0	SER
		26	536	21.13	19	22	01	155	12.67	3	25	2	1.8	26	3	57	12	1	0.3	0.5	0	SER
		26	539	48.19	19	21	56	155	11.76	1	28	2	2.1	44	6	61	20	3	0.4	0.7	0	SER
		26	540	36.22	19	23	08	155	13.73	7	79		2.1	14	3	142	15	1	0.7	0.8	0	SP2
		26	540	41.41	19	22	20	155	13.12	1	34	2	2	2.1	33	2	50	12	1	0.4	0.2	0	SER
		26	540	57.99	19	21	96	155	12.74	2	60	2	2	2.1	25	4	54	09	1	0.4	0.3	0	SER
		26	546	28.92	19	22	33	155	12.56	1	21	2	6	2.0	33	8	410	14	1	0.4	0.2	0	SER
		26	549	53.93	19	21	47	155	12.46	1	56	2	1	2.5	23	4	64	10	2	0.3	0.5	0	SER
		26	550	48.85	19	21	80	155	12.82	2	75	2	3	2.2	23	3	54	08	2	0.3	0.3	0	SER
		26	553	58.81	19	21	99	155	12.87	3	25	2.0	1.6	35	4	53	09	1	0.3	0.3	0	SER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP DEG	DIS	MIN SEC	DIS	ERH KM	ERZ KM	FM	NO REMK
1991	MAR	26	556	13	16	19	21	82	155	12	98	2.65		1	5	14	3	101	08	2	0.6	0	4	0	SER
		26	556	49.56	19	21	80	155	12	99	2.94	1.6	1	8	30	4	53	.07	2	0	3	0	3	0	SER
		26	557	22.22	19	21	94	155	12	94	2.99	3.3	3	4	49	3	52	.11	1	0	3	0	4	0	SER F
		26	559	39.49	19	21	73	155	12	26	2.62	2.2	2	2	28	4	76	09	2	0	4	0	4	0	SER
		26	559	54	98	19	21	69	155	12	86	2.93	2.4	2	8	30	4	55	07	2	0	3	0	4	0	SER
		26	6	0	51.63	19	22	08	155	12	19	2.69	2.0	2	0	26	1	61	06	2	0	4	0	3	0	SER
		26	6	6	5	78	19	21	96	155	12	84	3.37	2.0	1	6	29	3	53	.09	1	0	3	0	3	0	SER
		26	6	6	42	25	19	21	96	155	13	01	3.33	2	0	1	7	32	6	52	09	1	0	3	0	3	0	SER
		26	610	28	05	19	21	79	155	12	80	3.45	2.4	2	9	23	3	54	.09	2	0	3	0	5	0	SER
		26	613	2	35	19	21	79	155	12	01	2.69	1	8	1	8	17	4	106	.06	2	0	4	0	5	0	SER
		26	616	29	95	19	22	01	155	12	99	3.16	2.6	1	9	47	5	52	11	1	0	3	0	3	0	SER
		26	618	54	91	19	21	91	155	12	78	3.35		1	7	12	4	109	10	1	0	8	0	5	0	SER
		26	618	59	97	19	21	82	155	13	13	2.37		1	8	7	1	99	06	1	0	9	0	8	0	SER
		26	620	19	01	19	21	80	155	11	97	2.54	1.6	1	5	20	4	79	09	2	0	3	0	4	0	SER
		26	620	35	88	19	21	93	155	11	86	3.03	2.1	1	6	28	4	57	.08	3	0	3	0	6	0	SER
		26	624	12	57	19	21	84	155	11	96	2.80	2	1	1	8	19	1	124	05	3	0	4	0	4	0	SER
		26	624	47	41	19	23	70	155	11	69	1	02	1	7	1	6	15	3	152	12	3	0	4	0	6	0	SER
		26	625	7	41	19	21	87	155	13	03	3.04	2.0	1	6	15	2	99	04	1	0	5	0	4	0	SER
		26	625	31	69	19	21	80	155	12	03	2.63	1	8	1	8	20	3	105	07	2	0	4	0	4	0	SER
		26	631	0	20	49	22	12	155	12	85	3.48	2.1	1	5	37	4	54	10	1	0	3	0	4	0	SER
		26	635	53	02	19	21	87	155	12	61	2.90	1	8	1	5	20	4	91	06	1	0	4	0	4	0	SER
		26	639	41	17	19	21	65	155	12	73	2.79	1	7	1	6	19	3	89	.05	2	0	4	0	4	0	SER
		26	640	5	86	19	21	63	155	12	59	2.86	1.9	1	5	19	2	95	.06	2	0	4	0	4	0	SER
		26	640	54	57	19	22	01	155	11	36	2.45	1	8	1	4	16	3	115	11	3	0	7	0	5	0	SER
		26	641	53	24	19	21	83	155	12	79	2	06	1	7	1	6	18	2	104	11	5	0	5	1	2	0	SER
		26	642	20	58	19	21	51	155	12	81	2.25		1	8	8	2	174	.09	2	0	7	0	7	0	SER
		26	642	33	32	19	22	43	155	12	49	2	71		1	5	8	2	135	.07	1	0	8	0	3	0	SER
		26	643	14	42	19	22	16	155	12	96	3.09	2	7	2	1	46	5	31	12	1	0	3	0	3	0	SER
		26	647	27	00	19	22	01	155	13	24	3.06	2.1	1	7	35	6	50	09	1	0	3	0	2	0	SER
		26	652	12	37	19	21	68	155	13	03	3.28		1	2	9	2	104	.05	2	0	7	0	8	0	SER
		26	653	28	82	19	21	58	155	12	88	2.55	1.9	1	3	19	1	107	06	2	0	4	0	5	0	SER
		26	653	56	06	19	21	86	155	12	79	2.74	1	4	1	4	22	3	65	07	2	0	3	0	5	0	SER
		26	654	33	57	19	21	96	155	12	95	2.99		1	3	12	3	99	.08	1	0	5	0	4	0	SER
		26	654	42	59	19	21	89	155	12	81	2.73	1	4	1	7	27	4	54	12	1	0	4	0	3	0	SER
		26	657	14	26	19	21	91	155	13	24	4.40	1	9	1	6	19	4	64	.07	1	0	4	0	7	0	SER
		26	658	30	31	19	21	69	155	12	94	2.75	1	4	1	7	33	1	53	08	2	0	5	0	5	0	SER
		26	7	3	48	16	19	21	90	155	12	80	3.20	1	7	1	5	28	4	54	.08	1	0	4	0	3	0	SER
		26	7	4	2	03	19	21	73	155	12	76	2.75	2.5	1	8	33	4	56	10	2	0	3	0	4	0	SER
		26	7	4	30	61	19	21	28	155	12	91	1.32	3	0	3	0	42	7	58	.16	2	0	3	0	5	0	SER
		26	7	6	49	89	19	21	82	155	13	13	2.54	2.6	2	0	25	6	58	.10	5	0	3	0	7	0	SER
		26	7	7	51	49	19	21	90	155	13	29	2.56	2	1	2	0	13	5	135	.09	5	0	5	0	8	0	SER
		26	7	8	56	37	19	21	57	155	12	91	2.28	2.1	2	9	13	3	134	.03	5	0	4	0	9	0	SER
		26	714	5	09	19	22	33	155	13	27	3.46	2.1	1	6	37	4	49	.10	1	0	4	0	3	0	SER
		26	714	24	07	19	22	15	155	13	04	2.96	1	4	1	5	26	4	60	.11	1	0	4	0	3	0	SER
		26	715	57	13	19	22	17	155	13	30	4.94	2	6	1	9	29	0	57	.12	7	0	4	3	3	0	SER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	DMS	MIN DIS	ERH KM	ERZ KM	ND FM	REMK
1991	MAR	26	717	44.31	19	21.98	155	13.29	3.15	2.2	2.1	14	3	57	.05	1	0.5	0.4	0 SER
		26	718	5.73	19	21.97	155	13.17	3.06		2.1	17	4	51	.05	1	0.3	0.3	0 SER
		26	718	30.02	19	21.17	155	12.84	0.68			9	3	193	.06	3	0.3	0.8	0 SER
		26	719	29.98	19	22.27	155	13.06	2.90	2.0	2.1	6	1	112	.04	1	1.0	0.9	0 SER
		26	720	25.82	19	21.85	155	13.17	3.01	2.0	1.8	18	2	59	.04	5	0.4	1.0	0 SER
		26	721	56.91	19	21.82	155	13.22	2.40	2.0	1.7	13	1	86	.07	1	0.4	0.5	0 SER
		26	723	59.73	19	22.11	155	13.25	3.29	2.1	1.6	30	2	50	.12	1	0.4	0.6	0 SER F
		26	725	26.81	19	21.87	155	13.29	2.42		2.2	13	4	147	.06	1	0.5	0.4	0 SER
		26	725	30.22	19	21.93	155	13.15	2.85	2.1	2.0	11	4	97	.06	1	0.4	0.3	0 SER
		26	725	46.56	19	21.99	155	13.23	2.86	2.1	1.7	11	3	95	.05	1	0.5	0.4	0 SER
		26	726	15.22	19	21.93	155	12.96	2.52			12	4	99	.03	1	0.5	0.4	0 SER
		26	726	50.80	19	21.92	155	12.85	3.05	2.3	1.9	15	4	105	.07	1	0.5	0.5	0 SER
		26	727	16.86	19	21.91	155	12.88	2.85	1.9	1.6	18	3	53	.08	1	0.5	0.4	0 SER
		26	727	48.06	19	21.85	155	13.14	2.29			9	2	98	.05	1	0.6	0.5	0 SER
		26	728	39.10	19	21.99	155	13.07	2.66	2.2	1.9	22	2	52	.09	1	0.3	0.4	0 SER
		26	730	43.58	19	22.23	155	13.26	3.02		1.3	8	3	150	.07	1	0.6	0.4	0 SER
		26	730	51.66	19	24.32	155	17.00	1.76	2.2	1.6	15	4	77	.10	1	0.3	0.2	0 SSC
		26	731	12.38	19	21.96	155	13.21	2.98		1.3	10	2	96	.02	1	0.5	0.4	0 SER
		26	731	22.66	19	21.94	155	12.68	3.16	2.0	1.7	21	2	56	.06	1	0.3	0.5	0 SER
		26	732	56.98	19	21.68	155	13.47	1.90	1.9	1.7	20	2	53	.08	2	0.3	0.5	0 SER
		26	736	21.24	19	21.91	155	12.85	2.79	1.9	1.7	16	1	63	.06	1	0.4	0.5	0 SER
		26	736	58.53	19	22.28	155	13.80	2.70	1.9	1.5	14	3	83	.07	1	0.4	0.4	0 SER
		26	737	12.61	19	21.78	155	12.59	2.25		1.3	9	2	167	.08	2	1.1	0.7	0 SER
		26	737	26.42	19	22.01	155	13.08	2.41		1.3	9	2	97	.04	1	0.5	0.3	0 SER
		26	737	47.97	19	19.93	155	9.83	2.91	2.2	1.5	5	0	199	.06	4	1.3	1.5	0 SSF
		26	739	56.14	19	21.65	155	12.86	2.75	1.7	1.7	11	0	107	.04	2	0.4	0.6	0 SER
		26	744	53.23	19	21.55	155	12.55	2.49		1.6	22	4	69	.08	2	0.3	0.4	0 SER
		26	745	20.69	19	22.16	155	13.30	3.55		1.7	14	1	91	.07	1	0.4	0.5	0 SER
		26	755	6.57	19	23.17	155	14.75	3.28		1.4	16	4	81	.10	2	0.3	0.4	0 SSC
		26	757	19.77	19	22.41	155	12.64	3.09		1.4	9	3	173	.03	1	0.8	0.3	0 SER
		26	757	41.84	19	22.29	155	13.32	3.23	1.9	1.5	19	3	160	.08	1	0.7	0.4	0 SER
		26	757	56.19	19	22.35	155	13.04	3.28		1.5	8	4	177	.08	1	0.7	0.4	0 SER
		26	759	30.59	19	21.75	155	12.60	3.63	1.8	1.7	9	1	108	.05	5	0.6	1.6	0 SER
		26	8 4	33.50	19	22.16	155	13.19	3.13	0.8	1.3	16	4	140	.08	1	0.6	0.3	0 SER
		26	8 4	48.59	19	21.71	155	13.80	2.62		1.4	15	3	161	.07	2	0.4	0.4	0 SER
		26	8 5	0.27	19	22.01	155	13.04	2.52		1.3	13	4	97	.07	1	0.6	0.3	0 SER
		26	8 5	9.27	19	20.72	155	13.03	4.77		1.3	9	1	122	.08	4	0.6	1.4	0 SER
		26	8 5	16.04	19	22.69	155	14.44	3.22	1.9	1.5	20	4	78	.05	2	0.3	0.3	0 SSC
		26	8 6	32.38	19	21.74	155	13.53	1.56	1.9	1.8	17	2	53	.04	2	0.3	0.5	0 SER
		26	8 7	4.83	19	22.20	155	13.52	3.19	1.9	1.8	7	1	149	.02	1	0.6	0.6	0 SER
		26	8 9	17.17	19	21.41	155	12.61	1.59	2.2	1.9	25	4	99	.06	2	0.3	0.5	0 SER
		26	8 9	52.32	19	21.83	155	12.70	2.83	2.0	1.7	22	3	54	.08	2	0.3	0.4	0 SER
		26	816	37.61	19	22.06	155	13.33	3.24	2.5	1.9	44	3	50	.12	1	0.3	0.5	0 SER F
		26	832	43.53	19	23.25	155	14.61	2.45		1.2	12	4	107	.09	3	0.4	0.6	0 SSC
		26	853	19.23	19	21.60	155	12.67	2.80		1.4	11	4	111	.04	2	0.4	0.6	0 SER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	DMS	MIN DIS	ERH KM	ERZ KM	ND FM	REMK
1991	MAR	26	854	47.97	19	22.30	155	14.10	2.96	1.9	1.7	22	5	80	.08	2	0.3	0.3	0 SER
		26	858	6.38	19	21.83	155	13.48	1.37	2.2	2.0	28	4	50	.08	2	0.3	0.4	0 SER
		26	930	21.63	19	22.03	155	12.57	3.17	2.1	1.8	31	4	58	.09	1	0.3	0.3	0 SER
		26	934	36.10	19	21.98	155	12.77	2.99		1.4	9	3	159	.01	1	0.7	0.4	0 SER
		26	935	28.34	19	21.71	155	12.78	2.81		1.3	11	3	106	.02	2	0.5	0.5	0 SER
		26	937	53.03	19	22.04	155	13.06	3.23	2.1	1.6	31	5	51	.08	1	0.3	0.3	0 SER
		26	942	38.03	19	21.78	155	13.41	1.36	2.0	2.0	23	4	54	.07	2	0.3	0.4	0 SER
		26	953	26.77	19	22.34	155	14.44	1.56	2.0	1.8	21	4	77	.10	2	0.3	0.3	0 SSC
		26	1023	17.39	19	21.69	155	13.65	1.74	1.7	1.7	19	4	55	.07	2	0.3	0.5	0 SER
		26	1025	39.80	19	21.42	155	12.82	1.67		1.6	9	3	178	.04	2	0.6	0.7	0 SER
		26	1039	0.91	19	22.40	155	14.02	1.56		1.6	15	4	82	.12	2	0.4	0.3	0 SSC
		26	1050	22.75	19	21.76	155	13.67	1.37	1.8	2.0	20	4	92	.08	2	0.3	0.5	0 SER
		26	1141	49.02	19	22.04	155	13.37	3.06		1.3	15	4	93	.03	1	0.4	0.4	0 SER
		26	1153	12.56	19	21.55	155	12.66	1.85		1.5	12	2	89	.05	2	0.4	0.6	0 SER
		26	1155	3.52	19	18.82	155	13.72	8.24	1.2	1.8	35	3	67	.09	3	0.5	0.7	0 SP2
		26	1331	58.93	19	21.90	155	13.18	2.91		1.5	11	2	98	.03	1	0.5	0.4	0 SER
		26	1432	35.23	19	23.17	155	14.89	3.60	2.3	1.6	23	4	59	.10	2	0.4	0.4	0 SSC
		26	1527	10.34	19	21.97	155	13.98	1.53	1.8	1.8	22	4	86	.09	2	0.3	0.4	0 SER
		26	1732	44.65	18	54.45	155	12.88	48.33	2.7	2.4	48	2	249	.10	28	1.5	2.5	0 LOI
		26	2238	31.63	19	21.99	155	13.22	2.99	2.0	1.8	24	5	50	.08	1	0.3	0.3	0 SER
		27	051	35.48	19	19.16	155	8.22	7.82		1.6	26	4	90	.08	3	0.4	0.8	0 SP4
		27	233	36.33	19	22.85	155	14.87	2.96	2.0	1.7	20	4	71	.08	2	0.3	0.3	0 SSC
		27	524	29.98	19	21.78	155	12.74	2.73	1.7	1.5	15	2	106	.04	2	0.4	0.4	0 SER
		27	541	58.83	19	22.50	155	14.29	3.27	1.9	1.6	23	4	76	.09	2	0.3	0.3	0 SSC
		27	733	50.38	19	21.99	155	13.48	3.08	1.4	1.4	14	2	91	.07	1	0.5	0.4	0 SER
		27	1638	46.75	19	27.79	155	36.52	10.50	2.7	1.9	36	3	69	.17	1	0.5	0.8	0 MLO
		27	1921	58.07	19	24.12	155	17.27	1.60	2.1	1.3	16	6	87	.08	1	0.3	0.4	0 SSC
		27	2357	52.98	19	21.96	155	13.16	3.08	1.7	1.5	14	3	69	.03	1	0.5	0.4	0 SER
		28	151	23.34	19	55.08	155	24.59	9.61		1.5	14	4	217	.13	8	0.9	0.5	0 KEA
		28	155	33.19	19	22.40	155	13.94	3.24		1.2	10	2	141	.04	2	0.6	0.4	0 SER
		28	448	20.73	19	23.42	155	14.70	3.51	2.0	1.6	21	6	91	.11	2	0.4	0.5	0 SSC
		28	552	27.48	19	19.49	155	24.07	9.83		1.2	22	4	66	.10	3	0.4	0.7	0 SMR
		28	6 8	41.28	19	21.21	155	6.08	7.43	2.3	2.0	42	5	92	.10	5	0.4	0.6	0 SP4
		28	736	10.72	19	23.18	155	14.70	3.57	2.2	1.9	41	6	47	.10	3	0.3	0.3	0 SSC F
		28	1140	27.48	19	54.17	155	22.72	10.23	2.4	2.3	26	3	227	.11	4	0.8	0.4	0 KEA
		28	1210	24.82	19	22.76	155	14.12	1.84		1.6	11	3	131	.05	2	0.3	0.4	0 SSC
		28	1237	32.79	19	22.99	155	15.02	3.15	1.9	1.7	14	3	67	.07	2	0.3	0.4	0 SSC
		28	1250	12.10	19	19.32	155	12.27	5.36		1.5	26	3	92	.10	5	0.4	1.3	0 SP3
		28	13 5	55.16	19	18.82	155	13.27	9.04	3.7	3.9	54	5	126	.12	7	0.4	0.3	0 SP2 F
		28	14 3	32.78	19	19.11	155	13.31	10.33	3.8	4.1	53	5	123	.12	7	0.3	0.3	0 SP2 F
		28	1418	35.63	19	19.26	155	13.49	9.53	3.5	4.0	51	6	121	.13	6	0.4	0.4	0 SP2 F
		28	1428	2.09	19	19.00	155	13.60	8.50	2.3	2.2	51	6	69	.12	4	0.4	0.5	0 SP2
		28	1519	25.57	19	17.77	155	13.14	7.29	1.5	1.5	26	2	109	.08	2	0.6	0.9	0 SP2
		28	18 6	41.27	19	25.08	155	30.69	9.87	2.2	1.7	29	4	52	.09	4	0.4	0.7	0 KAO
		28	1935	25.19	19	46.98	156	10.09	83.00		1.8	9	4	289	.15	36	8.2	1.6	0 HUA

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP	DMIN KM	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	EVTY
1991	MAR	29	450	8.75	19	21	80	155	12.77	3	28	1.4	1.4	7	3	302	05	2	1.5	0.5	0	SEA
		29	737	45.72	19	53	78	155	23.58	7	72		1.7	14	1	251	16	5	1.8	1.1	0	KEA
		29	13	0	37.87	19	20.23	155	7.38	7	18	1.7	1.8	40	7	97	12	5	0.5	0.8	0	SP4
		29	1513	40	46	19	5	24	155	19.66	32	32		1.5	24	5	273	10	16	1.9	1.3	0	INT
		29	18	6	12.47	19	54	96	155	37.50	25	67		1.5	19	2	223	08	23	1.3	2.2	0	KEA
		29	2231	6.89	18	51	92	155	20.69	10	61	3.2	3.0	66	12	294	12	35	0.9	12.5	0	DUL
		30	2	2	4.78	19	53.69	155	22.76	10	28	2.6	2.6	49	2	213	10	4	0.8	0.4	0	KPA
		30	5	6	46.32	19	30.96	155	11.91	24	58	1.1	1.5	37	6	137	08	7	0.7	0.9	0	DEP
		30	747	44.71	19	57.83	155	45.90	16	70	1.6	2	2	35	0	287	11	16	4.3	2.1	0	KOH
		30	1135	23.30	19	54.53	155	23.65	9	14	1.1	1.8	24	1	212	14	6	1.1	0.5	0	KEA
		30	16	5	54.38	19	53	59	155	24.45	7	02	2.0	2.0	29	0	191	19	7	0.9	0.9	0	KEA
		30	1814	55.90	19	21	47	155	5.00	5	85	1.1	1.7	36	6	87	13	5	0.4	0.8	0	SP5
		30	2112	33.05	19	21	76	155	12.79	2	71		1.3	19	4	90	06	2	0.4	0.4	0	SPR
		30	2326	30.75	19	18.71		155	13.75	7	95	2.0	1.9	51	5	68	12	3	0.4	0.5	0	SP2
		30	2341	30.28	19	24	65	155	17.00	3	00	1.8	1.2	14	6	89	09	0	0.5	0.4	0	SDC
		31	355	55.16	19	28	05	155	53.65	13	33		1.2	17	1	110	13	3	1.0	0.6	0	KAU
		31	1118	27.18	19	21	15	155	20.81	30	18	2.5	2.2	52	13	57	12	5	0.6	0.7	0	DEP
		31	1750	59.25	19	25	26	155	17.50	8	60	1.9	1.4	12	2	136	10	0	1.9	0.9	0	INT
		31	2342	48.66	19	18	25	155	18.60	31	79	2.9	2.8	62	13	83	12	1	0.5	0.6	0	DEP
	APR	1	219	19.15	19	22.49		155	13.99	3	26	1.6	1.4	15	3	89	05	2	0.4	0.4	0	SDC
		1	452	45.07	19	53	56	155	23.02	8	74	2.0	1.9	18	1	230	13	4	1.1	0.6	0	KEA
		1	847	43.28	19	24	47	155	3.02	3	54		1.5	10	1	98	05	2	0.5	0.6	0	SME
		1	1919	31.97	19	24.60		155	17.36	10	63	2.0	1.2	17	4	56	09	1	1.0	0.6	0	INT
		1	2140	33.73	19	26.11		155	21.31	10	74	2.9	2.8	54	13	32	11	3	0.3	0.4	0	KAO
		2	230	51.35	19	20	83	155	6.14	6	75	2.0	1.8	39	7	300	11	5	0.4	0.6	0	SP4
		2	259	47	96	19	20	42	155	11.12	8	07	1.9	1.6	31	4	79	11	4	0.4	0.7	0	SP3
		2	4	4	49.49	19	20	25	155	4.57	6	73	2.1	2.1	34	3	126	11	3	0.4	0.8	0	SP5
		2	5	7	31.82	19	12.66		155	23.30	36	94	2.5	2.3	49	7	165	10	3	0.6	1.0	0	DEP
		2	1114	35	51	19	19	70	155	11.60	7	15	2.2	2	1	38	6	90	09	5	0.4	0.7	0	SP3
		2	12	0	55.52	19	12.64		155	23.35	36	89	2	5	2.4	49	8	287	10	3	0.6	1.0	0	DEP
		2	2031	40.59	19	23	14	155	14.67	5	33	2.7	1.8	29	8	72	09	3	0.3	0.3	0	SDC
		3	1	6	16.64	19	20	18	155	6.07	8	18		1.4	20	4	218	11	6	0.6	0.9	0	SP4
		3	221	17.12	19	23	00	155	14.71	3	37	2.0	1.7	15	5	65	05	2	0.3	0.4	0	SDC
		3	326	32.93	19	21	85	155	48.64	10	30	2	6	2.1	27	3	110	14	13	0.5	0.7	0	KAU
		3	937	11.65	19	22	16	155	4.97	6	53	1.7	1	1.6	23	3	76	11	4	0.5	0.9	0	SP3
		3	1020	27.37	19	20	33	155	7.28	7	12	2	1	2.0	29	4	97	09	6	0.4	0.7	0	SP4
		3	1234	4.77	19	22.30		155	10.70	2	93	2.0	1.5	14	3	101	07	2	0.7	0.4	0	SPR
		3	1444	6.05	19	25.40		155	15.64	13	82	2	1	1	3	18	3	142	06	3	1.0	0.7	0	DEP
		3	1759	32.61	19	13	33	155	23.24	36	41	2	0	1.9	45	7	154	10	2	0.6	0.9	0	DEP
		3	1958	2.39	19	24.42		155	16.52	14	07	2.0	1.2	18	4	84	11	1	1.1	0.8	0	DEP
		3	23	8	56.52	19	24	26	155	19.08	14	44	1.9	1.1	16	4	66	07	3	1.1	1.0	0	INT
		4	236		4.82	19	20.56		155	10.06	7	67		1.3	22	3	75	05	3	0.5	0.8	0	SP3
		4	545	46.20	19	20.06		155	10.94	6	40	1	6	1.5	30	4	86	12	4	0.5	0.9	0	SP3
		4	839	52.95	19	24	57	155	16.95	10	77	1	9	1.1	19	3	83	10	1	1.0	0.7	0	INT
		4	947	20.34	19	22.65		155	14.29	3	38	1	6	1.3	15	4	92	04	2	0.3	0.4	0	SDC

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP	DMIN KM	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	EVTY
1991	APR	4	1042	11.06	19	25	98	155	17	01	13.01	2.0	1.2	17	3	108	13	1	1.7	1.0	0	DEP
		4	1255	33.40	19	25.95		155	15	73	23.14	2.2	2.0	52	9	38	.11	3	0.4	0.6	0	DEP
		4	1634	0	09	19	24.94		155	16	97	12.50	2.0	1	3	23	2	91	14	0	0.6	0.7	0	INT
		4	2137	34.42	19	25	09		155	17.86		8.04	1.9	1	2	17	0	68	11	1	0.6	1.2	0	INT
		5	318	17	98	19	25	78	155	23	17	9.75	2.0	1	5	35	7	47	.09	4	0.4	0.6	0	KAO
		5	459	7.19	19	18.61		155	12	15		7.67		1.2	22	4	95	08	3	0.5	1.0	0	SP2
		5	1315	40.55	19	12	50	155	23	34		35.57	2.4	2	0	35	4	164	09	4	1.0	1.3	0	DEP
		5	1538	22	67	19	24	25	155	16	59	7.85	1.9	1	4	12	3	110	07	1	1.4	0.7	0	INT
		5	1849	43	76	19	17	41	155	13	64	5.53	1.6	1	5	22	5	105	09	1	0.4	0.8	0	SP2
		6	346	25	27	19	19	34	155	13	59	7.11	1.5	1	6	29	2	67	.11	4	0.5	0.9	0	SP2
		6	512	11.62	19	24	84	155	18	56	10.43	2.0	1	2	16	4	101	09	2	0.8	0.6	0	INT
		6	1344	49	58	19	17	55	155	13	22	6.30		1	4	22	4	112	08	1	0.4	0.8	0	SP2
		6	1638	44.59	19	24.92		155	14	09		8.88	2.0	1.2	11	2	253	08	5	2.0	2.0	0	INT
		6	1750	55	01	19	23.82		155	26	50	10	41	1.9	1	5	26	2	36	10	3	0.4	0.8	0	KAO
		7	2	2	29	94	19	23.31		155	26	11	4.22	1.6	1	1	17	4	99	09	3	0.4	0.8	0	KAO
		7	1019	29	68	19	25	26	155	16	40	15.88	2.1	1	3	19	4	111	08	1	1.1	0.7	0	DEP
		7	1033	15	98	19	55	07	155	10	94	39.13	2.1	1.6	23	4	246	11	17	1	3	0.9	0	KEA
		7	1055	16	58	19	23.29		155	14	88	2.86	1	8	1	6	14	5	106	.09	2	0.3	0.5	0	SDC
		7	1524	46	88	19	14	65	155	31	80	6.92		1.7	25	0	107	17	4	0.7	1.3	0	LSW
		7	1545	25	10	19	12.10		155	21	53	45.22	2	5	2.4	54	12	166	05	5	0.6	0.9	0	DEP
		7	1846	58	31	19	25	34	155	16	00	5.94	1.5	1	1	14	2	126	17	2	0.9	1.0	0	INT
		7	2218	55.21	19	22.52		155	14	29		3.19	1.7	1.4	19	5	83	07	2	0.3	0.3	0	SP
		8	038	5	94	19	20	43	155	7	11	7.61	1.2	1	5	32	4	98	.09	5	0.4	0.7	0	SP4
		8	855	2	60	19	21.60		155	6	41	8.62	2	1	3	27	0	63	10	1	0.5	0.7	0	DEP
		8	1639	1	70	20	30	13	156	2	65	11.37	3	3	2	56	9	317	.11	82	5.6	7.4	0	DIS
		8	1720	31	88	19	19	23	155	14	55	8.47	2.5	2	5	18	4	126	13	6	0.4	0.6	0	SP2
		8	2138	16.39	19	21.61		155	13	32		2.33	2	1	1	6	25	7	61	.09	2	0.3	0.3	0	SDC
		9	159	14	64	19	24	23	155	16	69	0.77	1.9	1	1	13	4	86	11	1	0.2	0.2	0	SDC
		9	358	5	97	19	23	01	155	17	06	2.87	1	7	1	2	21	7	68	.00	1	0.3	0.3	0	SDC
		9	6	9	31.39	19	26	12	155	25	03	8.91		1	1	24	6	64	09	7	0.4	0.8	0	KAO
		9	747	48	64	19	20	23	155	11	10	8.32		1	7	34	3	81	10	4	0.5	0.7	0	SP3
		9	1446	9.05	19	43	36	156	8	23		35.67	2.5	1	5	42	6	282	10	15	1.1	1.4	0	HUA
		9	1641	18	66	19	22	76	155	14	36	3.47	1	8	1	4	19	3	96	06	2	0.3	0.4	0	SDC
		9	2026	55	16	19	22	76	155	14	39	3	41	2	0	1	4	30	7	52	07	2	0.2	0.3	0	SDC
		9	2258	51.02	19	25	79	155	15	23		4.02	2.0	1.0	10	2	225	.07	4	1	8	0.8	0	DEP
		10	038	31	96	19	49	58	155	17	25	19.18	2.6	2	5	55	11	123	09	6	0.5	1.3	0	KEA
		10	110	20	30	19	25	47	155	16	24	12.79	2.1	1.2	13	4	123	04	2	1.3	1.0	0	INT
		10	146	57	10	19	20.97		155	6	25	8.35	1	7	1.6	21	3	96	10	5	0.6	0.9	0	SP4
		10	259	31	59	19	21	14	155	7	89	8.86	2.0	1.8	36	5	77	.09	4	0.4	0.5	0	SP4
		10	455	7	06	19	50	35	156	4	99	42.29		1.8	38	6	285	10	21	1.1	0.9	0	HUA
		10	710	30	21	19	35	40	155	29	65	6.86	1	7	1	2	25	6	73	12	5	0.4	1.3	0	MLO
		10	1754	7.06	19	22.30		155	3	33		8.23		1	4	28	4	113	12	4	0.5	0.7	0	SP5
		10	2252	25	62	19	17.52		155	10	28	8.97	1	1	1.4	29	5	72	.11	5	0.4	0.8	0	LSW
		11	2	5	20	83	19	21	41	155	7	09	5.45	1	1	1	5	33	3	82	12	4	0.4	0.8	0	SP4
		11	447	0	95	19	17	33	155	12	70	6.31	1.6	1.4	26	5	157	.08	1	0.5	0.9	0	SP2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP NS	DIS	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	APR	11	1041	42.10	19	21.31	155	25.38	12.01	1.6	1.2	17	4	57	10	4	0.5	0.8	0	KAO
		12	130	20.74	19	35.50	155	6.97	1.13	1.9	1.7	32	4	95	12	11	0.3	0.6	0	HTL
		12	338	19.92	19	20.70	155	12.66	7.82	1.8	1.6	34	5	65	.13	4	0.5	0.7	0	SP2
		12	444	41.57	19	23.68	155	15.25	3.24	1.7	1.2	19	5	67	.08	2	0.3	0.3	0	SBC
		12	737	47.04	19	17.24	155	13.02	7.40	0.9	1.8	38	8	156	11	1	0.5	0.7	0	SP2
		12	850	51.78	19	18.77	155	14.13	6.73	1.5	1.4	25	2	100	08	3	0.5	1.0	0	SP2
		12	1227	36.20	19	20.76	155	7.94	6.72	1.6	1.7	50	13	81	11	4	0.4	0.6	0	SP4
		12	2317	51.95	19	23.97	155	15.40	3.11	1.9	1.5	30	6	71	.12	2	0.3	0.3	0	SBC
		13	819	3.20	19	21.89	155	26.56	10.20	2.6	2.8	66	15	44	13	2	0.3	0.4	0	KAO
		13	944	26.16	19	20.03	155	9.83	6.53	1.6	1.5	43	6	83	10	4	0.4	0.7	0	SP3
		13	1151	4.99	19	23.00	155	14.81	3.15	2.2	1.6	28	8	86	08	2	0.2	0.3	0	SBC
		13	1312	7.67	19	10.64	155	35.33	7.17	1.9	1.9	28	5	102	21	8	0.6	1.3	0	HSW
		15	854	10.31	19	18.10	155	13.00	9.58	1.2	2.0	51	7	105	12	2	0.4	0.4	0	SP2
		15	1155	59.15	19	18.97	155	46.56	10.94	2.6	1.4	21	3	157	12	11	0.7	1.2	0	KOH
		15	1553	29.08	19	18.33	155	46.13	10.75	2.6	2.4	37	3	131	11	12	0.4	0.4	0	KOH
		15	1631	11.47	19	22.78	155	8.93	3.22		1.5	12	4	115	07	2	0.7	0.3	0	SBK
		16	012	51.62	19	25.10	155	20.16	6.38	1.9	1.0	23	6	61	09	3	0.4	0.9	0	KAO
		16	026	49.56	19	24.26	155	29.42	8.92	2.3	2.1	45	8	34	11	5	0.3	0.7	0	KAO
		16	154	43.79	19	22.97	155	2.75	8.39	1.7	1.6	34	3	117	10	3	0.4	0.4	0	SP5
		16	823	28.19	19	45.25	156	32.34	34.77	3.2	2.8	53	7	309	12	71	1.2	2.3	0	DTS
		16	941	5.09	19	20.61	155	11.92	8.29	2.0	1.9	42	5	73	10	4	0.4	0.5	0	SP3
		16	1154	31.09	19	21.65	155	6.96	6.80	2.0	1.6	30	4	79	.10	3	0.5	0.7	0	SP4
		16	2112	25.04	19	20.48	155	13.07	6.38	1.5	1.4	34	5	65	11	4	0.4	0.7	0	SP2
		17	259	3.08	19	22.61	155	14.02	3.56	1.9	1.4	24	6	77	.08	2	0.3	0.3	0	SBC
		17	417	27.56	19	19.88	155	9.55	7.64	0.9	1.4	24	7	84	.07	4	0.4	0.7	0	SP3
		17	814	29.38	19	19.20	154	56.42	42.77	3.8	3.4	69	18	214	10	11	0.8	0.6	0	TER F
		17	22 1	11.13	19	16.88	155	27.14	10.10	2.3	2.1	45	6	56	.13	6	0.3	0.6	0	HSW
		18	1412	51.61	19	44.18	155	3.02	31.68		1.5	22	5	247	09	34	1.3	3.0	0	HTL
		18	1429	9.42	19	19.60	155	10.12	1.76		1.5	40	11	94	.12	5	0.3	0.6	0	SSF
		19	23 3	12.19	19	21.51	155	5.14	6.51	1.7	1.8	46	4	86	.11	5	0.4	0.7	0	SP5
		19	23 6	31.15	19	17.14	155	47.75	10.01	3.0	2.8	47	3	98	11	8	0.4	0.4	0	NAN
		20	330	0.39	19	23.10	155	14.97	2.89	2.4	1.5	31	6	61	10	2	0.3	0.3	0	SBC
		20	332	17.49	19	21.83	155	6.53	8.20	1.1	1.4	39	6	78	.09	3	0.3	0.5	0	SP4
		20	723	20.00	19	12.06	155	30.93	38.17		1.6	38	0	82	08	6	0.7	2.0	0	DLS
		20	1529	41.26	19	23.64	155	27.31	10.15		1.2	29	3	34	.10	2	0.4	0.8	0	KAO
		20	1535	29.14	19	23.50	155	27.49	10.36		1.3	28	3	34	10	2	0.4	0.8	0	KAO
		20	1647	6.74	19	23.18	155	15.07	3.03	1.8	1.6	26	7	70	09	2	0.3	0.3	0	SBC
		20	2113	6.61	19	12.43	155	23.32	36.29		1.5	35	0	167	11	4	1.0	2.1	0	DEP
		21	048	9.13	19	23.21	155	17.10	3.05	1.4	1.1	27	7	61	08	0	0.3	0.2	0	SSC
		21	048	53.88	19	5.49	155	28.62	29.96	2.0	1.9	46	4	181	.09	8	0.7	1.1	0	DLS
		21	136	14.15	19	13.12	155	23.50	35.03	3.0	2.8	62	13	155	11	2	0.6	0.7	0	DEP
		21	4 1	28.63	19	19.92	155	11.13	7.49	1.9	1.7	49	7	88	10	5	0.4	0.5	0	SP3
		21	918	41.92	19	19.13	155	10.04	6.66		1.4	30	4	105	.10	5	0.4	0.9	0	SP3
		21	926	9.37	19	18.07	155	13.03	4.81		1.1	20	4	104	06	2	0.5	1.0	0	SSF
		21	20 3	25.37	20	16.71	156	40.18	25.02	3.3	2.6	38	5	316	12	94	1.7	3.9	0	DTS

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP NS	DIS	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	APR	22	110	3.26	19	24.00	155	34.73	13.80	1.8	1.4	25	3	103	.10	4	0.4	0.9	0	UNK
		22	819	49.14	19	24.48	155	17.35	2.25	2.5	1.4	24	9	52	.11	1	0.3	0.2	0	SSC
		22	1033	58.63	19	13.32	155	1.25	39.12	2.0	2.0	44	6	242	.09	13	1.6	1.1	0	DEP
		22	1034	52.07	19	26.35	155	18.80	6.95	1.8	1.5	29	7	98	.14	3	0.6	0.8	0	INT
		22	1036	10.31	19	25.99	155	19.35	7.45	2.4	1.8	31	7	95	.08	3	0.4	0.5	0	KAO
		23	026	19.30	18	55.52	155	9.18	14.29	2.4	2.4	54	8	249	14	41	1.6	3.2	0	DST
		23	552	15.01	19	25.33	155	16.16	12.10	2.1	1.5	22	6	115	13	2	0.8	0.7	0	INT L
		23	1257	44.37	19	21.30	155	6.89	8.13	1.7	1.7	24	2	85	13	4	0.5	0.9	0	SP4
		23	17 4	34.91	19	24.24	155	15.94	10.88	2.3	1.4	11	2	126	10	1	1.3	1.4	0	INT L
		23	19 2	48.13	19	24.66	155	16.99	12.06	2.2	1.3	15	4	90	.07	0	1.3	0.8	0	INT L
		23	2046	5.62	19	24.74	155	16.68	11.36	2.1	1.2	17	5	91	.05	1	0.8	0.7	0	INT L
		23	2335	50.77	19	22.76	155	33.33	7.17	2.3	1.8	29	3	47	08	4	0.3	1.1	0	MLO
		24	730	50.85	19	22.13	155	10.79	2.66	1.8	1.3	16	3	114	.09	2	0.6	0.5	0	SBR
		24	1710	25.06	20	15.15	155	52.39	31.25	2.6	2.1	15	4	309	.07	63	1.8	4.0	0	KOH
		24	1756	2.36	20	34.27	156	2.62	7.81	2.8	2.4	27	2	321	.11	89	8.5	10.6	0	DTS
		24	2112	38.72	19	16.80	155	14.77	6.29	1.6	1.5	28	5	180	.09	2	0.5	0.8	0	SP4
		25	2027	27.56	19	19.60	155	9.50	7.23		1.3	20	6	89	.07	5	0.4	0.9	0	SP3
		25	2046	16.84	19	25.32	155	19.05	6.30	2.1	1.2	24	7	76	.10	3	0.4	0.7	0	KAO
		26	142	40.77	19	21.93	155	2.34	6.69		1.6	31	4	142	.13	4	0.4	0.7	0	SP5
		26	252	42.16	19	21.96	155	26.45	10.38	1.9	1.4	33	5	44	.10	2	0.4	0.6	0	KAO
		26	3 1	13.75	19	25.33	155	18.97	5.58	2.1	1.3	26	7	76	10	2	0.4	0.7	0	INT
		26	542	36.20	20	51.93	155	25.72	15.59	4.0	4.0	49	5	314	.13	90	5.8	12.4	0	DTS
		26	847	43.53	20	42.76	155	23.19	45.67		2.1	21	1	328	.15	92	4.5	3.0	0	DTS
		26	2019	19.49	19	13.73	155	24.87	35.53	2.6	1.8	39	6	142	10	2	0.7	1.1	0	DEP
		26	2358	51.58	19	19.96	155	11.69	8.79	2.4	2.4	43	4	84	.10	5	0.4	0.6	0	SP3
		27	247	54.14	20	48.40	155	25.40	6.94		2.3	23	3	329	08	84	8.1	9.9	0	DTS
		27	648	15.07	19	21.85	155	24.30	13.10	1.9	1.4	31	6	70	.11	4	0.6	0.8	0	DEP
		27	1211	26.45	19	31.96	155	51.69	8.19		1.5	16	2	207	.12	8	1.6	1.0	0	KOH
		27	2119	10.17	19	23.72	155	16.81	3.13	2.6	1.7	33	5	46	.10	0	0.2	0.2	0	SSC
		29	147	7.61	19	16.65	155	12.80	8.89	1.6	1.4	22	4	184	09	1	0.7	0.8	0	SP2
		29	526	23.05	19	16.56	155	48.12	10.06	2.3	2.1	35	3	152	09	7	0.5	0.4	0	NAN
		29	834	3.75	19	24.68	155	16.37	1.32	2.2	1.4	22	6	95	11	1	0.3	0.2	0	SNC
		29	1627	43.24	19	12.12	155	29.86	4.65		1.5	30	3	73	14	5	0.4	2.3	0	HSW
		29	1738	11.30	19	21.96	155	13.53	2.92	1.4	1.4	18	3	52	.06	1	0.4	0.4	0	SBR
		29	18 0	43.00	19	28.78	155	52.13	40.87		1.1	20	5	100	18	5	0.7	1.0	0	KOH
		29	2020	48.69	19	21.87	155	15.39	2.73	1.1	1.1	16	4	95	.07	1	0.4	0.4	0	SBR
		29	2353	34.93	19	26.26	155	20.12	8.05	2.0	1.2	30	6	128	10	3	0.4	0.7	0	KAO
		30	1713	25.99	20	1.45	155	24.94	12.53	2.2	2.2	29	4	204	.08	17	0.8	0.5	0	KEA
	MAY	1	016	15.86	19	21.97	155	12.81	3.26	1.7	1.5	21	4	67	.07	1	0.4	0.4	0	SBR
		1	1534	22.46	19	20.02	155	11.42	6.99	2.0	1.8	35	2	84	12	5	0.5	0.8	0	SP3
		2	3 9	17.26	19	25.71	155	19.72	5.19	2.0	1.2	21	5	121	10	4	0.4	0.9	0	KAO
		2	358	43.61	19	24.50	155	17.76	1.95	2.0	1.4	8	2	275	.03	2	1.0	0.5	0	SSC L
		2	949	19.34	19	19.74	155	7.23	5.60	1.7	1.7	24	5	109	.07	5	0.3	0.9	0	SP4
		2	16 6	33.98	19	19.40	155	11.75	4.99	1.6	1.5	24	0	96	.10	5	0.5	2.0	0	SSF
		2	1738	16.56	19	10.39	155	28.32	34.51		1.5	32	0	90	.07	2	0.8	2.3	0	DLS

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NS	GAP DEG	SEC	DIS	MIN KM	ERH KM	ERZ KM	NO FM	REMARK
1991	MAY	3	1322	22.65	19	17.86	155	13.21	5	0.0	1.5	24	0	102	.09	2	0.5	1.1	0	SP2
		4	030	28.57	19	15 41	156	15.77	38.48		1.8	31	11	313	11	41	1.3	2.5	0	KOH
		4	141	12.96	19	18.78	155	14.66	7	14 0	9 1.3	27	4	111	12	4	0.4	0.6	0	SP1
		4	821	17.25	19	14.59	155	12.39	12.17	2 6	1.7	19	4	283	13	5	1.3	0.6	0	SP2
		4	1117	18.07	19	25 67	155	19.35	7	69 1.6	1.1	21	5	83	12	3	0.5	0.7	0	KAO
		4	1239	31.04	19	13.28	155	34.86	8	09 2 4	2.3	56	18	161	14	5	0.4	0.6	0	HSW
		5	1141	7.39	19	37 70	156	30.61	10	09 2.7	2 2	23	5	285	.18	64	4.1	5.6	0	DTS
		5	1411	47.13	19	23 61	155	27.28	9	91 2 2	1 9	37	6	33	10	2	0.4	0.7	0	KAO
		5	2014	59.02	19	18 89	155	13.10	5	73	1.3	20	3	84	.08	4	0.4	1.2	0	SP2
		6	413	29.25	19	17 59	155	23.20	2	09 1 7	1.5	18	2	101	09	5	0.4	1.1	0	SUR
		6	525	8.85	19	21 00	155	6.91	10	61	1 4	18	5	69	09	4	0.7	0 9	0	SP1
		6	10 1	49.82	19	11 95	155	31.01	38	26 2 6	2 5	50	4	84	07	6	0.6	0 9	0	DTS
		7	116	43.91	19	23 16	155	14.89	3	32 1.7	1 4	16	5	88	05	2	0.3	0.4	0	SBC
		7	410	4.64	19	17 74	155	13.03	8	35 2.5	2 8	49	7	116	10	2	0.4	0.5	0	SP2
		7	857	22.38	19	23 01	155	14.55	3	12 1.9	1 6	15	5	94	06	3	0.4	0.4	0	SBC
		7	857	35.56	19	23 01	155	14.64	2	77 1.8	1.5	16	3	118	.03	2	0.4	1.1	0	SBL
		7	11 8	58.34	19	23 24	155	30.79	9	44 1.7	1.3	18	4	62	07	6	0.4	1.0	0	KAO
		7	2027	8.66	19	13 11	155	27.29	6	80 1.7	1.5	16	2	116	13	6	0.5	1.4	0	HSW
		7	2248	12.26	19	11 08	155	28.98	7	96 2.1	1.9	23	3	137	.14	4	0.5	1.1	0	HSW
		8	113	35.15	19	33 38	156	11.45	68	09	1.6	15	5	279	11	30	5.0	1.1	0	KOH
		8	432	39.61	19	9 82	155	41.11	3	53 2 1	1.6	21	4	127	14	12	0.7	2.0	0	HSW
		8	759	19.64	19	11 64	155	30.96	39	25 2.0	1.7	31	0	88	.07	7	0.9	2.7	0	DTS
		8	821	11.98	19	20 56	156	12.98	31	38 5 5	5.3	50	3	263	11	35	1.3	1.6	0	KOH
		8	830	12.54	19	24 09	156	15.86	32	53 3 6	3 3	55	9	266	10	38	0.7	1.1	0	KOH
		8	841	48.50	19	21 59	156	19.08	37	82	1.8	24	4	327	09	44	1.5	1.6	0	KOH
		8	851	21.16	19	11 99	155	31.13	38	06 2 3	1.9	44	2	85	08	6	0.6	1.3	0	HSW
		8	851	50.33	19	31.54	156	23.88	35	99	2.0	16	2	304	.10	50	2.9	3.5	0	DTS
		8	930	9.50	19	15 21	156	18.50	35	83	2.1	30	2	301	.10	46	1.8	2.2	0	KOH
		8	1031	56.77	19	23.08	156	23.36	36	20 3 5	3.0	53	13	277	10	51	0 9	1.5	0	DTS
		8	1447	32.86	19	21 10	156	18.54	35	08 3.8	4.0	50	4	271	.11	44	1.1	1.5	0	KOH
		8	1533	18.34	19	21.66	156	22.92	41	83	1 5	11	4	322	11	51	2.9	3 2	0	DTS
		8	16 6	43.94	19	12 21	155	27.37	3	90	1 4	21	4	121	14	5	0.5	2.1	0	HSW
		9	840	30.41	19	25 06	155	1.72	3	35 0 8	1.3	20	3	105	06	4	0.4	0.7	0	SME
		9	1415	36.78	18	58 95	155	27.16	36	44 3.4	3 2	57	8	220	09	20	0.8	0.8	0	DTS
		9	1856	22.44	19	22 92	155	16.82	30	30 2.5	2.8	60	10	40	.12	1	0.5	0.6	0	DEP
		10	1 1	41.45	19	23.09	155	14.59	3	01 2 4	1 9	11	5	47	11	3	0.3	0.4	0	SBL
		10	1 4	13.54	19	22 86	155	14.70	3	32 1.8	1.5	21	6	76	08	2	0.3	0.4	0	SBC
		10	5 2	30.87	19	11 68	155	31.03	39	69	1.5	28	0	88	07	6	0.9	2.6	0	DTS
		10	21.0	44.71	19	20 65	155	7.63	6	55 1 9	1.8	47	6	87	11	5	0.4	0.7	0	SP4
		10	2245	26.30	19	22.42	155	13.45	3	65 2.6	1.8	47	5	47	12	1	0.3	0.4	0	SPR
		11	028	26.94	20	13 21	155	38.23	31	04 2 8	2.2	43	6	257	11	18	1.0	1.2	0	HSW
		11	044	15.00	19	22 23	155	10.66	3	30 1 5	1.4	27	3	84	11	1	0.5	0.6	0	SUR
		11	045	53.31	19	27.94	155	27.02	4	60 2 0	1.4	43	7	48	.14	6	0.3	2.8	0	KAO
		11	426	50.69	19	16 86	154	45.67	45	12 1.5	1.7	43	4	286	.09	22	2.0	1.3	0	DER
		11	843	45.76	19	21 16	155	7.70	6	64 1 8	1.7	51	8	70	.11	4	0.4	0.5	0	SP4

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NS	GAP DEG	SEC	DIS	MIN KM	ERH KM	ERZ KM	NO FM	REMARK
1991	MAY	11	656	40 51	19	18.99	155	13 42	8	62 1.9	1 8	49	7	75	.11	4	0.4	0.5	0	SP2
		11	1632	31.69	19	19.31	155	13 76	6.88		1 2	30	2	81	11	4	0.4	0 9	0	SP2
		11	17 8	15 36	19	21.05	155	6 93	8.51		1 3	28	5	89	09	4	0 4	0 6	0	SP4
		11	1839	15.24	20	5 65	155	39 85	23	23 3.0	2 8	59	8	195	10	43	0 6	1 2	0	KOH
		12	1616	40 56	19	21 48	155	30 49	8	38 2.3	2.2	40	4	32	.11	5	0 3	0 9	0	KAO
		12	2029	30 31	19	22 54	155	8 47	3	14 1.6	1 2	14	2	98	09	2	0 6	0 3	0	SBR
		13	915	47 38	19	10 38	155	37 15	9.81		1 4	17	3	99	14	8	0 8	1.3	0	HSW
		13	1046	3 54	19	25.27	155	16 47	14.81	2.2	1.3	17	3	110	.06	1	0 9	0 9	0	DEP
		13	1134	21 32	19	24.53	155	16.20	12.29	1.8	1 0	9	1	139	.09	1	1 8	1 3	0	TNT
		13	13 1	15.39	19	21.64	156	21 39	35	71 2.6	2.3	49	6	294	10	48	1 4	2 2	0	DTS
		13	2056	54 26	19	19 04	155	15 88	5	33 1.5	1 4	26	1	88	14	4	0 4	1 1	0	SP2
		14	553	50.00	19	17.70	155	13 11	4	87	1 3	16	4	113	05	1	0.6	0 8	0	SSF
		14	9 2	51 17	19	19.80	155	11.67	7.15	2.3	2 4	42	5	88	.12	5	0 4	0 6	0	SP3
		14	930	7 63	19	22 69	155	2 21	7.38	2.4	2.1	35	5	141	12	4	0 5	0 5	0	SP5
		14	1214	46 98	19	24.38	155	3.12	3.60	1.7	1.4	12	2	98	.06	2	0 5	0.4	0	SME
		14	1247	52.83	19	26 62	155	29 01	9.92	2.2	1 6	33	7	46	11	7	0 4	0 8	0	KAO
		14	1556	13 65	19	58.14	155	38 77	10.63		1 8	14	5	143	08	23	0 8	1 0	0	KOH
		14	1629	42 58	20	11.39	155	49 23	31.02	2.9	2.3	31	9	300	.10	8	0.9	0 5	0	KOH
		14	1815	2 47	19	40 82	156	10 42	25.99		2 0	24	4	303	.11	34	1 4	2.5	0	HTA
		15	040	9 40	19	22.59	155	14.44	3.13	1.9	1 6	19	4	81	02	2	0.3	0 3	0	SBC
		15	528	20 93	19	18 00	156	19 67	32	89	2.1	22	5	316	10	46	1 5	2 5	0	KOH
		15	940	51 16	19	20 80	155	11 27	8.64	2.6	2 2	38	7	72	.10	3	0 4	0 5	0	SP3
		15	945	49 94	19	20 30	155	11 27	7	77 1 9	1 6	23	7	80	08	4	0.5	0.8	0	SP3
		15	1251	38 38	19	19.62	155	11 85	4	10 1.5	1 5	23	5	90	13	6	0 4	1 6	0	SSF
		15	1646	40 31	15	24 31	155	17 11	1	50 2.0	1.3	12	5	102	.07	1	0.4	0.3	0	SSC
		15	2222	33 46	19	9 08	155	38 58	7	94 1.5	1.8	21	4	111	11	11	0 6	1 6	0	HSW
		15	2236	42 10	19	22 20	155	26 90	10	12 1.9	1 5	26	4	61	.13	1	0 4	0 7	0	KAO
		16	212	58.42	19	24 27	155	2 86	3.47	1.7	1 4	13	3	104	.06	2	0.4	0.6	0	SME
		16	740	54.75	19	18 65	155	15 30	6.82		1 4	19	3	125	.07	4	0 4	1 0	0	SP1
		16	8 8	52 03	19	28.55	155	28 56	9.97		1 4	24	4	62	.09	7	0.4	1.0	0	KAO
		16	1049	27 07	19	18 40	155	16 13	6.35	1.8	1 7	36	3	115	10	4	0 4	0 7	0	SP1
		17	254	4 91	19	18 17	155	16 00	8.98		1 7	27	3	134	.13	12	0 4	1 0	0	KOH
		17	458	0 71	19	24 31	155	17 28	2.24	1.9	1 2	12	4	96	.09	1	0 4	0 4	0	SSC
		17	7 1	1 57	19	18 24	155	16.03	6.92	1 5	1 5	35	4	116	11	4	0 4	0 8	0	SP1
		17	1726	38 74	19	20 51	155	30 21	5.43	1.7	1 3	14	4	51	06	6	0.4	1.6	0	KAO
		18	7 9	13 48	19	24 62	155	30 81	12.17	1 7	1 4	27	3	36	11	4	0 5	0 9	0	KAO
		18	851	37 92	20	46 80	156	3 95	6.61		1 8	24	4	329	09	78	8 2	10.6	0	DTS
		18	1030	26 29	19	21.15	155	7.22	7.25		1 7	25	2	84	08	4	0 4	0.8	0	SP4
		18	1313	24 22	19	20 12	155	7 23	7.45	1 2	1 4	18	5	101	07	5	0 4	0.9	0	SP4
		19	050	7 91	19	21 41	155	17 11	13.36		1.6	34	4	51	.03	2	0 8	0 9	0	DEP
		19	120	9 13	19	47 41	155	35 64	15.15	1 5	1 9	22	5	138	08	10	0 4	0 6	0	HTA
		19	649	14 41	19	24 23	155	17.54	1.70		1.2	10	3	110	09	2	0 3	0 6	0	SSC
		19	912	49 37	19	22 99	155	11 30	3.60	1 9	1 5	15	3	103	.06	2	0 3	0 4	0	SBC
		20	113	52 61	19	19.76	155	11 83	8.78	1.9	1.9	34	3	87	.09	6	0 4	0 7	0	SP3
		20	136	35 66	19	19 67	155	10 83	5.81	1.9	1 6	29	5	94	.09	5	0 4	1 0	0	SP3

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP NS	DRG	RMS SEC	MIN DIS	ERH KM	ERZ KM	FM	NO REMK
1991	MAY	20	210	26.52	19	20.83	155	19.40	30	74 1.9	1.6	34	2	49	11	4	0.8	1.3	0	LKP
		20	6 1	34.39	19	25 40	155	17.45	13	41 1 5	1.2	14	2	157	09	0	1.4	1.0	0	DEP L
		20	824	34.15	19	22 09	155	28.49	10	39	1.1	22	4	74	.10	2	0.5	0.8	0	KAO
		20	917	22.13	19	17 75	155	48.16	6	32	1 5	26	5	133	.13	8	0.4	2.3	0	KON
		20	956	20.62	19	50 32	155	22.62	26	30 2 0	1 7	18	6	116	08	7	0.8	1.2	0	PTA
		20	1125	35.52	19	13 64	155	23.17	33	81 2 3	1.9	37	4	152	01	2	0.9	1 3	0	DLP
		20	2135	8.69	19	48 61	156	30.36	38	85	2.0	17	2	314	14	71	3.3	4.9	0	DLS
		20	2321	38.10	19	18 04	155	15.30	7	60 1 6	1.4	22	3	149	07	4	0.4	0.7	0	SF1
		21	529	23.18	19	25 14	155	16.45	13	37 2 1	1.2	12	2	160	13	1	1.7	1.7	0	DEP L
		21	737	31.08	19	17.93	155	21.11	4	94 1.9	1.6	27	5	121	09	4	0.4	1.2	0	SWR
		21	928	48.66	19	25 83	155	19.19	6	00 2.0	1.2	24	6	88	09	3	0.4	0.8	0	KAO
		21	2051	46.08	19	19 33	155	12.20	5	19 1 6	1.3	25	4	92	09	5	0.4	1.4	0	SF3
		22	032	38.26	19	23 76	155	26.74	11	00 2.2	1.9	42	5	37	10	3	0.4	0.6	0	KAO
		22	1248	13.54	20	5 95	155	39.82	32	71 2.7	2.2	21	2	226	09	13	1.4	2.0	0	KOH
		22	17 1	30 78	19	19 77	155	12.43	5	46 1.5	1.6	39	7	81	.11	5	0.3	0.9	0	SF2
		23	438	4 61	19	20.66	155	11 96	8	85 2 6	2.8	55	7	71	13	4	0.3	0.4	0	SF3
		23	1412	2.68	19	23.62	155	15.10	3	16 2.3	1.7	24	4	53	.10	2	0.3	0.4	0	SEC
		23	2131	34.86	19	21.15	155	5.78	8	06 2.6	2.7	45	9	95	.10	5	0.4	0 5	0	SF4
		25	659	46.97	19	23 02	155	14 98	2	47 2.5	1.7	32	6	64	14	2	0.3	0.3	0	SEC
		25	1613	20.08	19	24.18	155	15.62	1	07 1 7	1.2	16	2	121	.14	2	0.3	0.4	0	SEC L
		25	2152	7.25	19	24 88	155	12.31	8	01 1 9	1 4	20	5	270	13	4	1.6	1.0	0	SF2 L
		26	310	6.82	19	25.10	155	16.87	17	48 1.8	1 3	9	2	154	06	0	2.8	1.4	0	DEP L
		26	2134	42.92	19	23.45	155	3.15	6	03 2.0	2.0	53	13	108	14	2	0.4	0.7	0	SF5
		27	1235	59.53	19	25.21	155	18.61	10	96 2.0	1.4	12	3	154	09	3	2.3	0.9	0	INT L
		28	314	7.22	19	26.47	155	16.59	9	03 1 9	1.4	9	2	203	10	3	1.8	1.0	0	INT L
		28	1418	15.44	19	22.83	155	14.39	5	44 2 1	1.7	18	6	98	04	2	0.3	0.4	0	SEC
		28	1815	3.12	19	35.36	155	18.92	12	52 2.0	1.7	31	3	80	11	13	0.5	0.9	0	KEA
		29	143	58.24	19	25 20	155	17.61	14	09 2.4	1.4	12	2	149	.05	1	1.9	1.0	0	DEP L
		29	851	59.10	19	21 79	155	13.26	2	22 1 9	1.7	16	5	99	.07	2	0.3	0.4	0	SEP
		29	2316	25.17	19	20 09	155	12.69	6	41 2.1	1.8	38	7	73	11	5	0.3	0.7	0	SF2
		30	2 8	46.75	19	24 82	155	16.99	9	34 2 1	1.3	13	2	98	06	0	0.9	1.0	0	INT L
		30	439	58.48	19	56 65	155	20.80	11	94	1.7	13	4	253	08	6	1.1	0.5	0	KEA
		30	6 9	12.35	19	22 08	155	10.76	2	85 2.0	1 6	20	3	91	.09	2	0.3	0.4	0	SEP
		30	645	15.54	19	58 28	155	19.42	9	23 2.0	2 4	20	4	203	10	9	0.8	0.7	0	KEA
		30	646	8.59	19	57 19	155	20 22	11	82 2.7	2.5	25	4	237	.08	7	1.0	0.4	0	KEA
		30	853	1.56	19	53.51	155	17.22	7	93	1 6	9	1	280	11	6	1.9	1.5	0	KEA
		30	1323	52.36	19	52 73	155	18.74	8	34 2 0	1.8	13	0	207	.09	3	1.0	0.6	0	KEA
		30	1756	43.40	19	57 21	155	19.95	11	23 3.2	3.0	51	9	198	.12	7	0.7	0.5	0	KEA
		30	1758	10.00	19	53 63	155	16.44	7	61 2.0	2.1	19	3	267	14	7	1.1	0.7	0	KEA
		30	1855	8.99	19	54 36	155	20.63	9	70	1.5	8	0	316	09	2	2.6	0.8	0	KEA
		30	1856	36.26	19	23 84	155	15.58	2	12 1.7	1.3	16	5	104	.09	2	0.3	0.3	0	SEC
		30	1959	2.34	19	57.20	155	20.50	11	73 2.1	2.0	21	2	276	.09	7	1.5	0.5	0	KEA
		30	2012	2.15	19	56 77	155	21.11	12	00 2 1	1.9	14	3	273	.08	6	2.0	0.5	0	KEA
		30	2048	14.81	19	57 36	155	20.76	12	78	1.7	12	2	276	06	7	1.6	0.5	0	KEA
		30	2056	16.98	19	57 90	155	20.30	11	53 2 7	2 7	43	6	266	.12	8	0.8	0.5	0	KEA

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP DRG	RMS SEC	MIN DIS	ERH KM	ERZ KM	FM	NO REMK
1991	MAY	30	2239	46.81	19	30.02	155	52 39	9	34 2 4	1 6	25	3	115	19	5	0 8	0 8	0	KON
		30	2244	10.59	20	4 91	155	21.38	10	92 2.2	2.2	22	3	228	.10	21	1 4	0.6	0	KEA
		30	23 4	22.64	19	19 84	155	12 20	7	43 1.9	1 8	43	5	83	.11	5	0 4	0.6	0	SF3
		31	923	7.07	19	57 94	155	20.24	11	41 2.7	2 5	34	5	204	.10	8	0.8	0 4	0	KEA
		31	1130	44.55	19	24 71	155	15 73	6	04 1.7	1.2	10	1	149	20	2	1.6	1 6	0	INT L
		31	1356	40.63	19	57.38	155	20 42	12	12 2.2	2 2	29	5	201	09	7	0 8	0.4	0	KEA
		31	1950	37.01	19	16 94	155	19 48	8	13	1.4	21	1	150	10	2	0 6	1 1	0	SWR
		31	2236	6 32	19	23.41	155	15 23	3	21 1.7	1 6	23	6	81	.10	2	0.3	0 4	0	SEC
JUN		1	0 4	59 68	19	17 86	155	22 94	2	76	1 0	19	4	102	09	4	0 4	0.9	0	SWR
		1	039	27.18	19	56.16	155	20 06	11	79	1.7	12	3	285	.06	5	1.1	0.4	0	KEA
		1	046	7 58	19	24 98	155	15 13	5	37 1.9	1 3	21	3	138	13	2	0 6	0 9	0	INT L
		1	642	41 30	19	18 65	155	18 42	33	08 3.1	3 4	60	9	87	.11	1	0 5	0 6	0	DEP P
		1	739	55.29	19	18.06	155	18.10	31	96 2.2	1.9	46	4	125	.10	1	0 8	0 9	0	DEP
		1	949	18.11	19	24.15	155	16 18	8	50 2 0	1 3	21	4	80	.12	1	0 8	0 6	0	INT L
		1	1334	36.39	19	29.09	155	27 67	6	55 1.7	1.4	35	6	65	.11	5	0 3	1.1	0	KAO
		1	1533	25 53	19	18 83	155	18 05	28	36	1 4	23	3	101	.08	2	0 8	1 7	0	DEP
		1	1616	38 29	19	24 58	155	16 98	1	58 2.2	1.4	15	1	82	11	1	0 4	0.2	0	SWC
		2	230	4 39	19	24.45	155	16.26	8	46 1.8	1 1	15	1	133	.10	1	0.9	1 1	0	INT L
		2	1839	25.09	18	54 04	155	29.99	37	81	1.8	24	0	254	.06	20	2 5	3 0	0	DLS
		2	2058	18.75	19	24 20	155	15.11	5	86 1.9	1.2	10	4	118	.11	2	1 0	1 8	0	INT L
		3	252	6 82	19	24 97	155	17.02	6	95 2.0	1.3	10	1	148	10	0	0.8	1 2	0	INT L
		3	9 0	57.73	19	58 64	155	20.32	11	86 2.1	1.7	14	3	262	08	10	1.7	0.6	0	KEA
		3	12 0	14 17	19	21.85	155	11 00	2	47	1.5	12	1	133	10	2	0.6	0 5	0	SER
		3	1231	37 73	19	18.88	155	26.42	10	82 1.7	1 4	31	2	55	11	6	0 4	0 8	0	LSW
		3	1550	30.02	19	23.32	155	16.77	12	95 2 2	1 4	11	2	87	.07	0	1 5	1 5	0	INT L
		3	1632	8 32	19	23 85	155	15 39	0	63 1.8	1 3	10	2	149	14	2	0 3	0 6	0	SEC L
		3	1920	0 00	19	23.48	155	17.17	5	27 1.7	1.1	9	1	90	.11	0	0 7	1.2	0	INT L
		3	1932	37.29	19	25 12	155	16.99	4	74 1.8	1 3	8	1	153	.09	0	0 9	1.1	0	SWC L
		3	2230	15.49	19	23 44	155	15 24	3	09 2.7	1 7	24	4	82	.08	2	0.3	0.3	0	SEC
		3	2322	45 81	19	24 55	155	16.96	9	46 2.0	1.2	14	4	92	.09	1	1 1	0 7	0	INT L
		3	2346	30 66	19	23 20	155	16.25	5	17 1.7	1 1	10	2	107	09	1	0 7	1.0	0	INT L
		4	0 7	20.89	19	23 16	155	17.02	5	18 1.8	1 1	10	2	77	12	0	0.8	1.0	0	INT L
		4	032	28 56	19	24 98	155	16 37	12	46 2.3	1.5	12	2	155	.12	1	1 2	0 9	0	INT L
		4	048	45 88	19	29 83	155	27.23	3	84 2 1	1.9	36	7	57	.12	4	0.3	1.2	0	KAO
		4	617	35 56	19	23.35	155	15 24	2	93 2 3	1.8	25	5	76	.09	2	0 3	0.3	0	SEC
		4	1043	51 36	18	53 32	155	6 76	51	41	1.9	37	2	268	.08	45	2 1	2 3	0	TOT
		4	1057	51 64	19	15 47	155	2 21	42	20 2.3	2.3	57	7	206	10	8	0.9	0 7	0	DEP
		4	1535	42 90	19	25 20	155	16.03	1	69 2.3	2 8	45	4	37	.11	2	0.2	0 3	0	SWC P
		4	1549	8 51	19	22 75	155	14.43	3	37 2.0	1 4	27	4	78	.07	2	0.3	0 2	0	SEC
		4	20 9	46 10	21	31 50	157	3 52	35	64 2 5	2 2	28	4	311	.14	254	3.8	4 1	0	DTS
		4	2131	44 52	19	19 74	155	11 07	6	57	1 4	38	8	91	10	5	0 4	0 7	0	SF3
		5	226	11 36	19	35 42	155	7 91	7	61 1 9	1 8	44	4	74	.13	12	0 4	1.4	0	HTL
		5	258	8 21	19	24 65	155	19.50	6	26 1.9	1 2	40	11	61	12	2	0.4	0.6	0	KAO
		5	7 7	14 76	19	22 85	155	14 54	3	28 1.8	1 5	20	6	80	07	3	0.3	0.4	0	SEC
		5	7 7	27 11	19	23 05	155	14.47	3	67 2.1	1 4	22	4	63	12	3	0 3	0.4	0	SEC

YEAR MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	CODA MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991 JUN	5	1513	0.45	19 22 97	155 14.60	3.81	3 3	3.2	50	5	49	12	3	0.3	0.4	0	SBT F
	5	2316	37.21	19 22 20	155 29.61	9 46	2.3	1.8	49	7	34	10	4	0.3	0.6	0	KAO
	6	254	10.40	19 27.17	155 26.07	3 45	2.4	2.0	41	5	48	12	4	0.3	0.9	0	KAO
	6	328	36 41	19 31 70	155 20.36	13 79	2 3	1 8	47	10	73	11	6	0.3	0.4	0	HIL
	6	18 7	50.42	19 26 43	155 28.73	9 02	2 1	1.7	43	7	43	09	7	0.3	0.7	0	KAO
	7	655	35 16	19 20 24	155 6.63	8 01	2 0	1.9	38	3	109	10	6	0.5	0 6	0	SF4
	7	757	12.08	19 19 47	155 11.78	4.82		1.3	24	5	93	.09	5	0.4	1 7	0	SSF
	7	10 8	10 79	19 20 02	155 7.17	7 94	1 7	1.6	36	5	105	11	5	0.4	0 7	0	SF4
	7	1741	45 89	19 22 99	155 14.96	3 07	2 2	1.7	21	5	68	10	2	0.3	0 3	0	SEC
	7	1942	13.18	19 23.12	155 14.97	3 19	2 6	1.8	25	5	68	08	2	0.3	0.3	0	SEC
	7	22 9	55 73	19 19 86	155 12.54	6 05	1 5	1.5	28	3	76	11	5	0.4	1 0	0	SF2
	7	2238	31.78	19 15 26	155 31.42	8 93	1 8	1.7	23	5	118	15	2	0.4	0.9	0	LSW
	8	736	30.11	19 17.09	155 12.52	4 73	2 1	1.8	33	3	178	.09	2	0.4	0.6	0	SSF
	8	938	36 16	19 26.70	155 29.35	9 89	2 7	2 3	49	9	44	10	7	0.3	0.5	0	KAO
	8	948	42.10	19 26 52	155 29.43	9 03	1.7	1.7	37	5	44	.13	7	0.3	0.7	0	KAO
	8	1318	43.79	19 22 43	155 14.02	3 17	1 9	1.7	17	5	84	06	2	0.4	0.3	0	SEC
	8	2323	3.52	19 25 19	155 16.71	10 27	2 1	1 3	9	1	159	05	1	1.5	1.6	0	INT 1
	9	358	13.16	19 22 37	155 13.97	3.16	1 8	1.6	19	5	81	.05	2	0.3	0 3	0	SER
	9	810	57.45	19 22 94	155 14.54	2 69	1.9	1.4	11	3	121	10	3	0.4	0.6	0	SDC
	9	1329	31.87	19 24 20	155 17.43	1 85	2.3	1.6	13	3	96	.07	1	0.4	0.3	0	SSC
	9	2239	19.63	19 18 68	155 12.85	5 68	0 9	1.3	32	4	94	12	3	0.4	1.0	0	SF2
	10	645	7.30	19 17.77	155 48.59	6 82	2 0	1.7	27	1	131	.14	7	0.6	1.8	0	KON
	10	749	21.60	19 23.78	155 16.54	3 80	1 5	1.1	20	3	67	12	0	0.4	0.3	0	SSC L
	10	2030	54.36	19 53 60	155 52.19	12 59		1.8	20	2	208	09	22	1.1	0.7	0	HUP
	10	2232	24.97	19 21.63	155 30.35	7.21	1 7	1.7	35	0	33	12	5	0.3	1.1	0	KAO
	11	959	53.13	19 23 16	155 2.64	8 33	1 1	1 6	38	2	124	14	3	0.6	0.5	0	SF5
	11	1031	43.44	19 20 03	155 8.63	6 75	1 6	1 6	36	3	75	.11	4	0.5	0.8	0	SF4
	11	22 5	57.08	19 31 99	155 19.84	12.95	2 0	1 4	36	6	134	12	7	0.6	0.7	0	MLC
	11	2345	16.77	19 25 96	155 15.77	13 57	2 1	1 4	17	3	149	07	3	1.0	1 1	0	DEP 1
	12	051	24.90	19 25 27	155 20.74	6 63	1 8	1.1	26	6	87	11	3	0.4	1.0	0	KAO
	12	416	59.62	19 12 57	155 32.61	8 98	2 2	2.1	13	3	83	.15	6	0.4	0.6	0	LSW
	12	722	4.68	19 11 73	155 30.71	3 85	1.8	1.7	30	0	86	16	6	0.4	2 2	0	LSW
	12	2027	52.27	19 19 90	155 10.47	8 01	2.1	2.0	52	7	89	.12	4	0.4	0.6	0	SF3
	13	138	21.06	19 20 16	155 11.35	7 94		1.2	29	5	84	09	4	0.5	0.7	0	SF3
	13	139	50.14	19 20.53	155 11.39	8.12	0.9	1 4	32	4	83	11	4	0.5	0.7	0	SF3
	13	2217	28.54	21 20 23	156 57.53	6 52	4 0	3 1	49	6	339	14	182	10.2	13.1	0	HIS
	14	447	12.53	19 22.59	155 2.84	7 45	1 7	1.7	37	5	126	11	4	0.4	0.4	0	SF5
	14	6 8	27.69	19 26 67	154 52.24	7.40	2 4	2.2	37	3	185	.11	2	0.6	0.7	0	LER
	14	1216	30.39	19 21 72	155 27.99	6 50	2.2	1.8	33	3	40	10	2	0.3	0.7	0	KAO
	15	1514	10.68	19 28 86	155 16.60	24 90	1 9	1.4	47	10	154	.10	7	0.7	0.5	0	DEP
	15	2043	5.47	19 22.90	155 14.77	3 14	2.0	1.5	30	6	66	10	2	0.3	0.3	0	SEC
	15	2213	18.49	18 50 57	156 56.31	15 21	2 2	2.6	49	15	317	15	122	6.7	11.6	0	DIS
	15	2326	0.52	19 22.24	155 10.82	2.97	1 8	1.4	30	5	83	.08	2	0.4	0.4	0	SER
	15	2344	42.38	19 12 96	155 8.53	44.32	2.1	2.0	51	7	201	10	8	0.8	0.9	0	DEP
	16	124	12.50	19 28 18	154 52.45	3.18	1.9	1.7	42	8	111	.14	3	0.6	0.8	0	SLE

YEAR MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG MIN	LON W DEG MIN	DEPTH KM	AMP MAG	CODA MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991 JUN	17	1742	14.05	19 22 67	155 14 30	3 33	1.6	1 4	15	5	92	05	2	0 3	0 3	0	SEC
	17	2347	6 07	19 23 25	155 2 24	7 52	2.0	1.9	41	4	131	.13	4	0 4	0 4	0	SF5
	18	031	16 10	19 19 80	155 10 54	8.66	2.9	3 3	50	5	90	11	4	0.4	0.4	0	SF3
	18	650	32.71	20 28 27	155 52 01	40 92		1.9	18	9	318	.06	39	1 2	0 7	0	DIS
	18	18 8	25.62	19 27 37	154 52 67	9 77	3.0	3 1	51	8	145	11	3	0 6	0 2	0	LER F
	18	2147	17 95	19 24 25	155 17 46	1.95	1.8	1 2	10	3	106	09	1	0 3	0 5	0	SSC L
	19	613	34 28	19 19 88	155 10 58	8 05	1.6	1 5	29	5	97	.08	4	0.4	0 7	0	SF3
	19	11 4	55.91	20 0 26	155 24 44	11 34	2 2	2 0	20	4	203	.09	14	0 9	0 5	0	KEA
	19	1648	4.60	19 18.15	155 15 48	6 84	1.6	1 4	22	4	147	07	4	0 4	0 7	0	SF1
	19	1919	58.39	19 24 90	155 30.13	10.74	2.0	1 5	27	4	72	11	4	0 5	0 9	0	KAO
	19	22 6	48.03	19 17 56	155 48 29	10 14	2.0	1 7	29	3	136	11	8	0 5	0 7	0	KON
	19	22 7	30.60	19 17 26	155 47.94	9 89		1 6	24	3	141	12	8	0 6	0 9	0	KON
	19	2213	8 69	19 23.44	155 2.27	7.66	1.1	1 7	32	3	127	.13	4	0 4	0 7	0	SF5
	20	217	52 35	19 23 47	157 37 47	25.56			21	3	334	15	179	3 2	5.3	0	DIS
	20	741	25 55	19 45.12	155 33 63	29 74		1 4	18	3	178	.08	16	0 9	1 4	0	KEA
	21	1 8	1 43	19 26 61	155 17 53	9.26	2 1	1 4	14	3	193	15	3	1 0	1 3	0	INT L
	21	110	25 19	19 25 47	155 16 14	13 35	2 1	1 4	16	4	126	.05	2	0.9	0 9	0	DEP L
	21	426	54 74	19 22 02	155 4 79	6.85	2.0	1 9	39	3	79	.13	5	0 4	0.7	0	SF5
	21	2230	39 88	19 20 42	155 23 03	10.55	2.2	1 9	53	7	69	.13	1	0 4	0.5	0	SWR
	22	1121	55 83	19 22 19	155 4.94	7 47	1.3	1 8	39	3	77	12	4	0.5	0.6	0	SF5
	22	1414	27 88	19 45 56	156 4 49	2 50		2 0	17	2	281	16	43	2.0	2 0	0	HUA
	22	2138	57.70	19 22 82	155 11.44	3.40	2.2	1 7	31	6	50	.08	2	0.3	0 4	0	SEC
	22	2248	12 83	19 23 81	155 16 56	7 93	2.0	1 4	18	4	68	.09	0	0 6	1 0	0	INT L
	22	23 6	17 26	19 25 41	155 14.54	10.96	2.1	1 3	19	3	215	11	1	1 2	0 6	0	INT L
	23	446	35 18	19 22.68	155 29 85	9.77		1.3	23	3	71	.07	4	0 4	0 8	0	KAO
	24	0 3	8 32	19 55 33	155 48 22	39.22		1.5	21	4	266	06	17	1 2	0 9	0	NHI
	24	111	2.64	19 25 11	155 16.01	13.17	2 1	1 2	15	3	160	.08	2	1 1	0.9	0	DEP L
	24	437	33 40	19 19 37	155 11.79	4.35	1.6	1 3	22	4	96	.09	5	0 4	1.8	0	SSF
	24	657	25.02	19 19 81	155 10 65	8.24	2 1	2 0	42	4	91	.11	5	0 4	0 6	0	SF3
	24	658	48.09	19 19 77	155 10.73	8.84		1.4	23	4	92	.05	5	0 4	0 9	0	SF3
	24	1436	30 36	19 25.54	155 19 11	8.16	2 4	1 3	27	5	80	13	3	0 4	0.8	0	KAO
	24	2157	28 41	19 25 95	155 19.17	5 99	2.5	1.3	26	6	93	10	3	0.4	0 8	0	KAO
	25	546	44 52	19 25 24	155 17 36	5.75	2.3	1 3	9	3	156	15	1	1 3	1.1	0	INT L
	25	6 9	42.31	19 20 09	155 12 07	8.26	2 9	3.1	52	7	79	.13	5	0 4	0.5	0	SF3 F
	26	325	21 48	19 25 40	155 19 47	3.51	2.4	1 6	22	4	74	12	3	0 3	0 6	0	KAO
	26	435	7 59	19 25 06	155 19 26	4.14	3 1	2 0	41	6	37	12	3	0 3	0 6	0	KAO
	26	528	1 83	19 25 43	155 19 77	3.23	1.9	1 5	20	3	72	11	3	0 4	0.6	0	KAO
	26	528	15.38	19 25.61	155 19 64	3.81	2 5	1.5	20	4	78	13	4	0 3	0 6	0	KAO
	26	736	5 10	19 19 72	155 8 56	7.74	1.9	1 9	41	3	78	.11	5	0.5	0 7	0	SF4
	26	1058	8 36	19 20 40	155 12 78	7.42	2.1	1.9	42	5	68	12	4	0 4	0 6	0	SF2
	26	1551	32 75	19 21.96	155 27.30	10.83	2.0	1.3	34	3	41	11	1	0 4	0 6	0	KAO
	26	2029	57 55	19 20 33	155 12 18	8.39	2.2	2 1	48	6	75	.12	5	0 4	0.5	0	SF3
	27	552	32.91	19 23 15	155 15 06	3.05	2 3	1 6	29	8	61	08	2	0 3	0 3	0	SEC
	27	557	47.68	19 23.30	155 15 09	3.06	2.4	1.5	32	8	57	10	2	0.3	0.3	0	SEC
	27	6 1	45 69	19 23 13	155 15.10	2.98	1.8	1.5	24	7	63	09	2	0.3	0.3	0	SEC

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	JUN	27	857	5.69	19	27	36	155	16.33	1	91	2 1	1.7	11	5	283	.07	4	0.8	0.9	0	SDL
		27	1330	16.24	18	53	02	155	8.66	12	44	3.4	3.1	59	11	257	14	45	1.7	2.9	0	IOI
		27	2347	25.34	19	15	71	155	27.30	7	82		1.5	24	4	71	.11	5	0.4	0.9	0	ISW
		28	133	0.31	19	19	68	155	13.47	9	29	2 8	2.8	53	6	120	.13	5	0.4	0.5	0	SP2
		28	419	21.47	19	9	47	155	37.25	7	01	1 9	1.8	28	4	105	14	10	0.7	1.8	0	ISW
		28	741	14.63	19	23	67	155	15.23	3	68	2 7	1.7	38	8	58	10	2	0.3	0.3	0	SDL
		28	918	36.69	19	22	30	155	49.49	9	61	2.3	1.8	37	6	120	.16	13	0.5	0.7	0	KON
		28	940	23.69	19	20	31	155	3.15	8	29	2.8	3.2	52	7	94	12	1	0.6	0.4	0	SP5
		28	1640	44.41	19	19	05	155	13.47	7	30		1.4	22	0	77	.10	4	0.6	1.2	0	SP2
		28	2030	18.31	19	13	82	155	4.07	43	93	2 4	2.2	43	1	222	10	9	1.6	1.7	0	DEP
		29	119	13.21	19	19	52	155	9.16	6	21		1.4	26	6	87	09	5	0.4	0 8	0	SP3
		29	458	19.06	19	17	62	155	34.31	2	78		1.4	32	5	74	17	7	0.4	1.6	0	ISW
		29	916	40.46	19	24	65	155	16.50	0	01	2 0	1.4	15	4	92	20	1	0.2	0.5	0	SHC
		29	1527	11.90	19	17	20	155	29.52	7	19	2 7	2.8	47	5	105	14	4	0.3	0.8	0	ISW
		29	1617	15.14	19	20	03	155	6.76	9	02	3 5	3 8	48	6	111	.10	5	0.3	0.4	0	SP4
		29	1759	12.56	19	25	65	155	17.42	12	56	2 1	1.3	18	5	90	14	1	1.3	0.9	0	INT
		29	2113	1.97	19	19	71	155	17.64	32	22	2 2	2.0	47	7	85	11	1	0.7	0.9	0	DEP
		29	2233	14.72	19	19	29	155	8.53	7	03		1.4	33	5	81	.10	4	0.4	0.8	0	SP4
		29	2233	24 51	19	19	50	155	8.43	7	83	1 7	1.6	19	2	83	.05	4	0.5	1.0	0	SP4
		29	2256	14.03	19	19	84	155	11.51	6	93		1 3	33	6	88	.10	5	0.4	0.8	0	SP3
		30	2338	9.42	19	23	25	155	14.84	2	53	1 5	1.2	15	4	107	06	2	0.3	0.4	0	SBC
	JUL	1	227	23.87	19	22	89	155	1.79	8	08	1.8	1 5	38	4	135	.13	5	0.5	0.4	0	SP5
		1	458	57 60	18	52	51	155	11.99	49	47		1 8	46	6	255	08	42	1.5	1.0	0	IOI
		1	534	27.51	19	20	40	155	29.90	9	65	2 9	3.2	53	7	68	.10	6	0.3	0.5	0	KAO
		1	823	20.40	19	13	66	155	32.04	5	64		1 6	33	1	71	.16	4	0.5	1.7	0	ISW
		1	1224	48 03	19	24	01	155	15.29	8	34	2 0	1 1	12	2	77	09	2	1.0	0.9	0	INT
		1	2252	1.03	19	22	75	155	8.77	3	38	1.6	1.2	16	1	55	.09	2	0.4	0.3	0	SBR
		1	23 9	37.65	19	25	35	155	28.88	8	18	2 0	1.5	38	5	36	12	6	0.3	0.9	0	KAO
		2	1 0	16.74	19	23	34	155	14.90	2	62	1.7	1 3	16	4	104	08	2	0.3	0 4	0	SBC
		2	240	16.58	19	24	17	155	16.41	1	49	1.7	1 2	13	5	112	09	1	0.3	0.3	0	SBC
		2	1037	8.94	19	59	69	155	44.17	10	06		1.8	21	2	145	.09	16	0.6	0 6	0	IAU
		2	2029	45.98	19	24	21	155	17.12	1	54	2 2	1 3	21	6	70	11	1	0.3	0 2	0	SSC
		2	2117	30.25	19	56	88	155	20.25	12	02	0.8	1 6	16	4	212	07	5	0.9	0 4	0	KEA
		2	2310	13.62	19	25	75	155	16.76	12	54	2 1	1.3	16	3	112	.06	2	1.1	0.9	0	TNT
		3	140	49 89	19	20	19	155	11.31	8	54	2 1	2.5	48	5	82	12	4	0.4	0 5	0	SP3
		3	1053	52.97	19	19	76	155	9.71	8	21		1.3	26	2	66	08	4	0.5	0.8	0	SP5
		3	1414	20.54	19	25	88	155	17.27	13	16	2 2	1.5	18	7	149	.09	1	1.4	0 7	0	DEP
		3	1710	19.80	19	24	61	155	15.74	2	12	1 8	1.1	13	4	241	.13	2	1.2	0 5	0	SHC
		3	1758	33.14	19	25	20	155	16.45	12	39	2 3	1.2	16	6	163	11	1	1.3	0 7	0	TNT
		3	1841	53.18	19	24	44	155	17.18	1	87	2 1	1.1	10	3	86	.10	1	0.5	0 4	0	SSC
		3	2250	52.52	19	26	49	155	16.96	12	98	2 0	1.0	16	3	112	08	2	1.1	0 9	0	INT
		4	0 7	7.87	19	19	79	155	12.10	6	68	1.6	1.2	27	3	85	07	6	0.4	0 8	0	SP3
		4	036	13.06	19	29	82	155	30.03	3	07	2 3	1 7	34	7	44	11	6	0.3	1.0	0	KAO
		4	247	13.39	19	25	17	155	39.22	2	53	1 8	1 4	15	1	204	.08	6	0.9	1 6	0	MAU
		4	1211	27.78	19	7	88	155	34.96	1	65		1 6	15	1	132	.13	13	0.5	1 3	0	ISW

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	JUL	4	1421	46 46	19	10	23	155	7 59	49	32	2.8	2.8	59	10	209	11	13	1 1	0.9	0	DEP
		4	1841	30.10	19	20	24	155	8 02	6	32	1.6	1.6	35	3	84	.12	5	0.4	0 8	0	SP4
		5	014	6 69	19	24	91	155	16.43	1	58	2.2	1 2	19	4	100	.10	1	0 3	0 2	0	SHC
		5	137	11 18	19	16	59	155	22.96	7	27	1.6	1 2	28	5	127	.13	7	0 5	1 3	0	SWR
		5	1849	15 88	19	16	67	155	30 68	8	80		1.5	28	4	93	.14	3	0.4	1 0	0	ISW
		6	1020	4 66	19	27	40	155	11 43	10	31	1.8	0 8	17	4	244	11	4	1 2	0 6	0	INT
		6	2114	58 52	19	25	51	155	16 00	15	66	1.9	0 8	17	4	132	.16	2	1.6	0 9	0	DEP
		7	148	49 56	19	20	22	155	26.96	10	08	1.7	1.3	25	6	57	.10	4	0.3	0 5	0	KAO
		8	037	9 31	20	1	33	155	52 27	12	56	2.4	2 3	20	3	231	.08	15	1.8	0.8	0	KOH
		8	1119	1 21	19	20	13	155	12 00	6	30	1 8	1.6	37	5	79	12	5	0.4	0.9	0	SP3
		8	1152	27 18	19	22	03	155	5 05	6	30	1.7	1 7	38	4	75	13	5	0 4	0 8	0	SP5
		9	421	38 50	19	21	46	155	4 87	6	64	1.7	1 7	38	5	86	.12	4	0.4	0 7	0	SP5
		9	8 9	13 42	19	23	70	155	15.41	2	86	2.4	1 4	30	7	62	09	2	0.2	0 3	0	SBC
		9	9 8	48 36	19	27	35	154	53 69	6	43	1.9	1.8	33	4	142	.13	3	0.6	0.7	0	LER
		9	2123	43 06	19	23	18	155	15 00	3	16	2.3	1.5	34	8	61	.11	2	0 3	0.3	0	SBC
		9	2339	39 39	20	24	00	155	58 45	35	61		1 9	24	6	321	09	36	1 1	0 5	0	KOH
		10	1129	13 15	19	20	21	155	23.54	10	59	1.9	1.5	38	6	70	11	0	0 4	0.6	0	SWR
		10	1234	13 96	19	23	47	155	16.70	3	24	1.8	1 3	22	4	61	.11	2	0 3	0.5	0	SHC
		10	14 4	21 20	19	20	10	155	12 12	6	73	1 5	1 3	34	4	79	.11	5	0.4	0 6	0	SP3
		10	1557	42 50	19	20	90	155	11.27	8	09	1.6	1 3	31	3	85	10	3	0 5	0 6	0	SP3
		10	1656	41 64	19	22	12	155	13 97	3	00	1 7	1 6	21	3	84	07	2	0 3	0 3	0	SBR
		10	2241	50 53	19	19	67	155	13 51	9	14	2 6	2 8	49	3	121	.13	6	0 4	0 5	0	SP2
		11	112	13 52	19	23	16	155	14 91	3	03	2 5	2 1	42	4	47	11	2	0 3	0.4	0	SHC
		11	115	39 65	19	23	11	155	14 92	3	30	2 0	1 6	17	3	83	08	2	0 4	0 3	0	SBC
		11	126	8 08	19	20	96	155	25 31	9	81	1 9	1 8	50	6	54	12	4	0 4	0 5	0	KAO
		11	1342	14 70	19	22	82	155	14 75	2	96	2 2	1 6	26	8	70	.09	2	0.3	0 3	0	SHC
		11	1418	50.26	19	11	93	155	32.07	3	37		1.5	23	3	89	.21	7	0 6	2.2	0	ISW
		12	629	30 18	19	21	34	155	18 88	3	71	1 3	1 1	17	4	80	06	3	0 3	1.0	0	SWR
		12	1248	39 01	19	21	39	155	28 91	6	36		1.2	24	2	80	.11	3	0.4	0 7	0	KAO
		12	21 8	13 30	19	29	37	155	26.69	4	57	2 8	2.4	57	10	69	.12	5	0.3	1.7	0	KAO
		13	1459	2 27	19	19	63	155	6 02	5	91		1 6	42	5	135	.10	5	0 4	0 9	0	SP4
		13	1518	57 53	19	26	16	155	19 42	6	11	2.2	1.1	27	7	96	.12	3	0.4	0.9	0	KAO
		13	1649	43 26	19	23	14	155	30 36	9	47	1 7	1 7	41	3	50	.10	5	0 3	0.6	0	KAO
		14	211	30.91	19	22	98	155	14 58	3	46	2.2	1.5	31	5	75	10	3	0.4	0.4	0	SBC
		14	3 5	19 77	19	25	30	155	18 66	5	77	1 8	1 1	28	5	76	.10	2	0 3	0.6	0	INT
		14	3 5	47 72	19	25	25	155	18 92	4	78	2 5	1 6	49	8	42	.12	2	0 3	0 5	0	SDL
		14	3 5	58.34	19	25	31	155	18 87	5	31	2.9	2 4	38	6	76	.11	2	0 3	0 5	0	INT
		14	311	44.49	19	25	28	155	19 00	4	63	1.8	1 2	29	6	75	.11	2	0 4	0.6	0	SHC
		14	315	42 14	19	25	37	155	18 79	5	48	2 1	1.3	30	8	77	.10	2	0.3	0.6	0	TNT
		14	316	39 17	19	25	37	155	18.76	5	22	2 3	1 4	35	8	78	.11	2	0 4	0 5	0	TNT
		14	346	59 96	19	25	24	155	18 65	5	75	2 2	1 5	38	7	75	10	2	0 3	0 5	0	INT
		14	926	4 64	19	19	92	155	10 28	7	89	2 2	2 2	47	4	88	13	4	0 4	0.6	0	SP3
		14	1020	59 48	19	21	82	155	6 62	7	37	1 5	1 3	37	3	78	.11	3	0.5	0.6	0	SP4
		14	1155	43 68	19	22	13	155	10.63	2	93	1 5	1 2	16	5	120	.10	1	0 6	0 5	0	SBR
		14	1515	45 56	20	14	16	155	50 55	41	07	1 5	1 7	22	4	307	10	14	2 1	0.6	0	KOH

YEAR MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	AZM	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	FM	NO
1991 JUL	14	2011	53.06	19	23	46	155	15.16	3	06	2	5	1.7	26	8	13	68	2	0.3	0.3	0	SBL
	14	2226	46.37	19	21	.95	155	12.77	3	11	1	7	1.5	19	3	53	06	1	0.3	0.4	0	SER
	15	529	58.73	19	10	.92	155	40.99	12	.44		1	6	16	2	121	11	20	0.8	1.5	0	LSW
	15	758	8.77	20	26	74	156	42.92	33	24	2	4	2	6	27	2	334	11128	2.6	3.8	0	DIS
	15	1147	14	41	19	19	35	155	11.72	8	23	2.1	1.7	29	2	97	07	5	0.5	0.8	0	SP3
	15	15	2	46.08	19	22	85	155	14.49	3	53	2	3	1.6	31	4	65	09	2	0.3	0.3	0	SBL
	15	1844	29.32	19	19	81	155	7.89	7	89	2	0	1.8	35	3	94	08	5	0.4	0.6	0	SP4
	16	2	0	38.24	18	59	38	155	36.04	36	68	2	5	2.1	36	5	209	09	7	0.8	1.1	0	DIS
	16	320	3.44	19	26	.33	155	14.90	12	71	2.1	1.2	13	4	243	07	4	2.0	1.0	0	INT
	16	731	0.40	19	19	52	155	9.20	5	.68	1	6	1.3	30	1	88	11	5	0.4	1.2	0	SP3
	16	1041	40.36	19	23	62	155	16.79	11	80	2.1	1	2	17	3	54	21	1	1.4	1 0	0	INT
	16	1950	55.45	19	24	01	155	15.71	12	.57	2.0	1.0	15	4	325	11	2	1.2	0.8	0	INT
	17	022	'0.75	19	38	84	155	5.86	10	75	2.4	1.9	35	2	72	13	8	0.4	1.3	0	HIL
	17	043	43.92	19	24	88	155	15.96	12	94	2	0	1.2	13	3	110	07	2	1.4	1.0	0	INT
	17	11	8	14.45	19	30	06	155	29.40	4	.57	2.3	1.5	30	8	68	10	5	0.3	2.0	0	MLO
	17	1217	11.81	19	24	27	155	17.04	1	58	2.0	1.3	15	6	162	09	1	0.4	0.3	0	SBL
	18	523	47.10	19	46	.62	155	24.95	21	55	2.2	1.9	35	6	115	08	4	0.5	1.0	0	KEA
	18	9	6	32.11	19	26	.38	155	20.49	5	.16	2	4	1	2	26	8	77	11	2	0.4	0.8	0	KAO
	18	9	7	48.19	19	20	48	155	12.83	7	93	1	8	1	6	31	4	66	08	4	0.4	0.7	0	SP2
	18	1719	10.76	19	22	.82	155	4.43	8	.05	1	9	1	.8	33	6	87	09	3	0.4	0.6	0	SP5
	18	1743	5.79	19	28	76	155	27.94	9	59	2	2	1	4	21	6	83	07	6	0.3	0 9	0	KAO
	19	442	49.22	19	25	43	155	16.86	4	45	2	1	1	4	10	0	.03	09	1	0.6	0 6	0	SBL
	19	518	43.51	19	22	77	155	14.35	3	53	1	8	1	4	21	6	85	.09	2	0.3	0 4	0	SBC
	19	21	8	51.08	19	24	96	155	17.65	11	52	1	9	1	0	12	2	78	.18	1	1.9	1.6	0	INT
	20	957	42.58	19	15	.62	155	26.88	8	17	1	7	1	7	31	4	74	11	6	0.3	0.6	0	LSW
	21	4	5	10.24	19	25	76	154	59.59	3	39	1	1	1	4	17	2	82	.07	2	0.5	0.6	0	SBL
	21	542		8.48	19	25	.69	154	59.52	3	.45	0	8	1	3	14	2	83	07	2	0.6	0.6	0	SBL
	21	1011	46	30	19	19	.78	155	8.93	7	.70		1	7	30	2	79	08	5	0.4	0 7	0	SP4
	21	12	5	33	43	19	25	29	155	14.43	2	.10	0	8	1	5	10	2	246	09	5	0.7	0.9	0	SBC
	21	1240	45.11	19	20	03	155	11.74	9	.58	2	8	3	1	46	5	83	.10	5	0.4	0 5	0	SP3
	21	16	6	29	91	19	32	.47	155	47.25	31	93		1	8	29	3	190	09	4	1.3	1 5	0	HON
	21	1910	0	54	19	19	.61	155	11.03	8	.10		1	.8	38	6	95	10	5	0.5	0.7	0	SP3
	21	2019	34	02	19	22	52	155	20.76	8	90		1	.1	27	5	70	.08	3	0.4	0.8	0	KAO
	22	026	30.12	19	18	.35	155	15.20	7	.38	1	2	1.5	33	4	132	.07	4	0.4	0.6	0	SP1
	22	532	11.34	19	25	36	155	19.73	6	47		1	6	35	5	50	12	3	0.4	0 7	0	KAO
	22	7	6	1.30	19	24	61	155	16.89	12	77		1	.3	14	2	85	13	1	1.3	1.6	0	INT
	22	926	31.48	19	20	54	155	10.80	8	.22		1	.6	32	3	77	.10	3	0.5	0.8	0	SP3
	22	1134	6.98	19	16	13	155	25.76	8	42		1	.2	23	3	115	.09	5	0.5	1.0	0	LSW
	22	19	3	13.57	19	21	46	155	15.87	26	.16	2	8	2	4	58	11	64	11	2	0.4	0.4	0	DEP
	22	2116	51.87	19	24	48	155	15.82	8	.13	2	2	1	4	12	2	102	10	2	1.2	1.0	0	INT
	22	2231	29.63	19	25	34	155	13.69	1	49	2	2	1	3	11	2	103	04	6	0.5	0 9	0	SBL
	23	547	13.14	19	12	.57	155	29.57	6	.98	2	1	1	6	22	3	137	.13	5	0.5	1.1	0	LSW
	23	1452	12.37	19	24	.35	155	17.05	1	95	2	0	1	.3	11	3	83	06	1	0.3	0.3	0	SBC
	23	1813	57.36	19	23	.38	155	17.18	5	07	2.0	1	0	19	3	55	11	0	0.7	1.2	0	INT
	23	2029	42.32	19	19	.72	155	11.87	7	05	1	9	1	.7	45	4	88	11	6	0.4	0.8	0	SP3

YEAR MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	AZM	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	FM	NO
1991 JUL	23	2120	52	51	19	39	62	155	12	06	5.90	1.6	1	5	38	3	88	13	5	0 4	0 9	0	SP3
	23	22	1	6	81	19	19	40	155	9	21	5.52		1	3	31	6	91	.09	4	0.4	1.0	0	SP3
	23	2216	19	68	19	19	60	155	9	02	7.14	2.3	2	2	53	7	84	13	5	0.4	0.5	0	SP4
	24	055	5.50	19	26	19	155	15	74	1	74	1.8	1	2	19	5	139	.09	3	0 3	0.4	0	SBC
	24	148	38	60	19	25	.44	155	15.75	10	79	1.9	1	1	20	4	139	.09	2	0 8	0.6	0	INT
	24	620	39	37	19	24	98	155	15	55	11.73	2.4	1	3	18	3	124	13	2	0 8	1 2	0	INT
	24	7	1	15.24	19	28	.23	155	52	21	8	05		1	4	27	4	136	.20	5	0 8	0.8	0	KON
	24	918	2	88	19	18	93	155	29	69	9	21		1	.3	32	6	54	11	7	0.3	0 9	0	LSW
	24	1154	55.04	19	20	.38	155	13	27	6	.09		1	.3	25	4	63	.12	4	0 4	1 1	0	SP2
	24	1427	44.46	19	26	22	155	14	76	10	60		1	0	12	4	245	.06	4	2.5	0 9	0	INT
	24	1531	34	55	19	23	19	155	16	03	10	89		1	2	9	2	127	.10	1	1 5	2 1	0	INT
	24	2349	57.06	19	20	03	155	11	75	7	.46		1	5	30	5	83	.10	5	0 5	0 8	0	SP3
	25	0	9	2	95	19	10	19	155	30	.38	6.24	2.0	2	5	35	0	180	.15	5	0.7	1.5	0	LSW
	25	019	17.08	19	10	64	155	30.05	3	.53		1	.7	18	0	166	.13	4	1 0	2 3	0	LSW
	25	830	14.63	19	26	03	155	16	25	11	.10	2.1	1	.3	13	2	139	.09	2	1.3	0.9	0	INT
	25	2028	43	64	19	18	63	155	13	92	8	.35	0.9	1	4	25	3	97	08	3	0 5	0 9	0	SP2
	26	239	56	29	19	23	25	155	26	66	4	.66	1.0	1	5	30	5	55	.12	2	0 3	0 7	0	KAO
	26	1621	14	00	19	22	78	155	8	.80	3	49		1	7	32	3	101	.09	2	0 5	0 3	0	SBC
	26	1848	56.60	19	2	51	155	25	66	28	.89		1	7	38	6	208	.08	14	0 9	1 5	0	DIS
	26	2128	58	15	19	19	50	155	10	06	7	.49	1.1	1	.9	37	1	96	.10	5	0 4	0 6	0	SP3
	28	048	26	11	19	21	90	155	30	35	9	.70	2.4	2	6	47	5	13	.08	5	0 3	0 4	0	HAW
	29	147	39	06	19	59	72	155	25	18	11	69	0.9	1	6	15	3	265	.09	14	1 0	0 4	0	KEA
	29	739	5	08	19	19	46	155	11	.79	7	.17	1.7	1	.5	31	4	93	.09	5	0 4	0.8	0	SP3
	29	2131	45.25	19	19	78	155	12	26	8	45	2.1	2	.0	38	3	89	11	5	0 5	0 7	0	SP3
	30	743	2	71	19	20	.67	155	8	60	7	59		1	3	30	3	71	.11	3	0 4	0 7	0	SP4
	30	753	26	97	20	12	55	156	22	72	37	54		1	8	29	4	305	12	63	1 8	2 6	0	DIS
	30	759	47	08	19	16	46	155	33	51	6	.70		1	.6	29	2	87	14	6	0 4	1.3	0	LSW
	30	842	55	08	19	26	30	155	24	.19	8	.20	1.8	1	2	31	5	56	11	3	0.3	0 7	0	KAO
	30	1219	13	94	19	23	59	155	15	10	3	.44	2.1	1	.4	28	6	52	08	2	0 3	0 3	0	SBC
	30	1518	1	.74	19	23	.76	155	17	53	15	46	1	6	1	6	46	8	35	.10	1	0 5	0 3	0	DEP
	30	2226	59	17	19	19	70	155	13	72	6	.58		1	.5	36	7	76	11	5	0 4	0 8	0	SP2
	30	2317	6	.18	19	27	48	154	48	55	10	.43		1	.6	29	2	277	.12	5	2.0	0 4	0	DEP
	31	721	18	.83	19	27	.11	154	55	67	4	.12	1	1	1	.5	32	3	139	.14	6	0 6	3.1	0	SBL
	31	10	1	50.52	19	18	.35	155	14	.48	6	17	2.0	1	7	44	4	91	.11	3	0 4	0 6	0	SP2
	31	1017	54	62	19	29	26	155	26	80	8	.13	1.9	1	3	31	4	67	.07	5	0 3	0 6	0	KAO
	31	20	8	35	62	19	37	.06	156	10	75	34	29		2	3	27	3	327	.11	81	2 0	5.7	0	DIS
AUG	1	5	2	30	94	19	24	.42	155	0	.91	8	31	2	0	1	9	40	5	132	.13	4	0.5	0 6	0	SP5
	1	726	19	12	19	20	21	155	7	.05	5	77	1	7	1	7	37	5	103	12	6	0.4	0 9	0	SP4
	1	1040	50	27	19	20	29	155	11	01	7	.16	1.2	1	.1	36	6	81	.11	4	0 5	0.8	0	SP3
	1	1643	21	03	19	29	96	155	15	96	23	.75	2	6	2	5	44	4	69	.10	4	0 6	0.9	0	DEP
	2	1	7	47	63	19	21	59	155	6	00	8	.18	2	0	1	.9	44	5	84	11	4	0 4	0 5	0	SP4
	2	1638	58	.11	19	19	37	155	15	36	7	.41	1.5	1	3	35	3	97	.10	4	0 4	0 7	0	SP1
	2	1947	19	81	19	23	59	155	15	14	2	.67	1	7	1	3	23	8	95	09	2	0 3	0 3	0	SBC
	3	311	29	33	19	23	45	155	15	14	2	55	2	2	1	.3	31	7	80	.12	2	0.3	0 3	0	SBC
	3	331	40	36	19	23	62	155	18	82	12	.97	1	8	1	1	17	4	117	10	2	1.3	0.9	0	INT

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	SEC	RMS DIS	MIN KM	ERH KM	ERZ KM	NO FM	REMK
1991	AUG	3	859	59.09	19	23	50	155	15.20	2.71	2.3	1	4	38	9	52	10	2	0.2	0.3	0	SBC
		3	1641	14.61	19	22	29	155	20.80	10.79	1.8	1.4	35	3	75	08	3	0.4	0.6	0	KAO
		3	1938	43.13	19	16	07	155	30.13	8.87		1.4	38	4	61	14	2	0.4	0.9	0	ISW
		3	1939	5	99	19	13	84	155	28.42	8	21		1.4	29	4	90	.13	4	0.4	1.0	0	ISW
		3	2024	49.11	19	25	11	155	19.04	4	74	2	1	1.4	28	7	71	.13	3	0.4	0.7	0	KAO
		3	2055	16.67	19	25	13	155	18.92	5	75	3	0	3	1	44	4	41	12	2	0.3	0.6	0	HVT
		3	2155	46.75	19	25	76	155	16.34	1	66	2.0	1.7	43	8	75	10	2	0.2	0.2	0	SBC
		3	2249	49.38	19	25	83	155	16.45	1	60	2.5	1.5	26	5	113	.11	2	0.3	0.3	0	SBC
		4	215	13.12	19	23	41	155	16.86	2	92	1	9	1.3	29	9	45	08	0	0.3	0.2	0	SSC
		4	326	27.77	19	22	78	155	13.97	3	84	1.8	1.5	28	5	90	10	2	0.4	0.5	0	SER
		4	927	0.90	19	25	18	155	15.01	10	90	2.1	1.2	13	1	159	11	2	1.3	1.3	0	HVT
		5	1040	11.72	19	19	57	155	8.42	7	19	2	3	2.5	49	4	82	.12	4	0.4	0.6	0	SP4
		5	1210	25.73	19	20	19	155	7.37	8	09			1.6	30	0	99	10	5	0.6	0.8	0	SP4
		5	1917	9.14	19	25	34	155	19.66	5	84	2	7	1.5	39	9	49	13	3	0.3	0.7	0	KAO
		5	1945	42.17	19	18	74	155	13.48	10	10	3.8	3.9	57	7	75	11	3	0.4	0.3	0	SP2
		6	125	33.88	19	19	26	155	13.79	8	68	2.5	2.6	51	6	63	13	4	0.4	0.5	0	SP2
		6	248	54.30	19	19	33	155	13.49	7	41	1	5	1.5	42	5	69	.12	4	0.4	0.7	0	SP2
		6	627	43.34	19	24	73	155	14.93	10	06	2	0	1.2	15	2	122	.10	1	0.9	1.0	0	HVT
		6	1142	28.04	19	19	03	155	13.31	4	43	1	5	1	4	38	5	77	13	4	0.3	1.3	0	SSF
		6	1243	37.68	19	43	13	155	37.57	14	42			1.4	19	3	315	.12	19	2.0	0.6	0	KEA
		6	1515	4.95	19	19	26	155	13.45	4	93			1.4	29	3	71	11	4	0.4	1.5	0	SSF
		6	1859	25.18	19	29	87	155	30.37	22	76	3	0	3	0	72	21	36	.10	6	0.3	0	5	0	HVT
		6	2324	25.11	19	46	48	155	34.42	14	95	1	0	1.6	24	5	105	09	12	0.5	0.6	0	KEA
		7	1211	19	68	19	23	90	155	26.98	10	42			1	3	30	2	36	10	3	0.4	0.7	0	KAO
		7	1637	13.90	19	21	11	155	13.23	8	69	2.9	2.9	51	9	57	.10	3	0.3	0	4	0	SP2
		8	2314	34	04	19	24	25	155	17.13	1	44			1	1	10	4	90	08	1	0.3	0	4	0	SSC
		9	410	16.31	19	9	95	155	37.68	8	80			2.0	26	4	116	13	9	0.5	1.3	0	ISW
		9	939	4.64	19	19	97	155	11.81	6	96			1	9	35	4	83	.11	5	0.4	0	8	0	SP3
		9	2023	9.71	19	26	54	155	19.52	14	65	1	9	1	2	28	4	107	.08	3	0.6	0	6	0	HVT
		9	2111	58.68	19	24	41	155	17.24	2	22	1.8	1.1	16	5	86	.10	1	0.5	0.3	0	SSC
		9	2314	56.84	19	10	32	156	17.38	10	96		1	8	22	3	292	.10	45	2.3	2	7	0	KAO
		10	19	8	16.45	19	24	86	155	18.96	6	10	2	1	4	26	6	66	10	3	0.4	0	6	0	HVT
		10	1913	24.87	19	24	73	155	19.32	5	04	2.5	1.6	31	8	73	.12	2	0.3	0.6	0	KAO
		10	1917	39	93	19	24	85	155	18.95	5	88	2.8	1	8	30	6	66	.12	3	0.4	0.8	0	HVT
		10	1921	54.27	19	24	91	155	19.10	5	14	2.2	1	4	27	6	67	.11	2	0.3	0.8	0	KAO
		10	1956	9	48	19	24	61	155	19.23	5	41	2	3	1	3	29	8	61	09	2	0.3	0	6	0	KAO
		10	1956	53.91	19	24	81	155	19.13	4	85	2.1	1.9	36	7	65	.12	2	0.3	0	6	0	KAO
		10	23	5	54	04	19	24	84	155	19.03	5	61	2.3	1.5	26	5	65	.11	2	0.4	0	8	0	KAO
		11	10	23.26	19	24	81	155	19.02	5	54	2	1	1.3	27	7	65	.11	2	0.4	0.8	0	HVT
		11	329	59.69	19	22	82	155	4.29	8	76	3	5	3.7	51	7	87	.09	3	0.3	0	3	0	SP5
		11	2134	54.32	19	18	72	155	8.31	7	90	1.7	1	5	27	4	89	08	3	0.5	0.9	0	SP4
		11	2253	44	48	19	24	80	155	16.15	1	88	2.0	1.1	11	4	183	08	1	0.6	0.5	0	SBC
		12	138	19.50	19	23	47	155	6.43	0	03	2.4	1.7	17	0	60	.11	2	0.5	0.8	0	SBC
		12	645	53.96	19	20	34	155	10.97	8	13	1.7	1.7	33	5	80	10	4	0.5	0	7	0	SP3
		12	1253	58.53	19	23	19	155	15.06	2	58	2	3	1.9	22	8	78	10	2	0.3	0.3	0	SBC

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	SEC	RMS DIS	MIN KM	ERH KM	ERZ KM	NO FM	REMK
1991	AUG	12	2131	43	50	19	23	29	155	15	12	2.94	1.8	1.4	18	3	75	.12	2	0.4	0	4	0	SBC
		13	10	6	36	99	19	23	04	155	3.33	7	99	2.3	2.2	38	6	109	.10	3	0.4	0	5	0	SP5
		14	333	14	51	19	59.72		155	24	35	12.33	2.1	1	8	37	5	202	10	24	0.7	0.9	0	KEA
		14	925	55.63	19	50	34	155	56	54	13.16		1	5	20	2	269	13	20	2.8	0.9	0	HVA
		14	1538	45.13	19	22	28	155	10.81	3	16	2.1	1	5	28	5	84	.08	2	0	4	0.4	0	SER
		15	1	8	38	13	19	23	26	155	4	20	2	75	2.1	1	7	24	3	154	11	2	0	8	0.8	0	SBC
		15	619	14	30	19	25	42	155	38	65	3.75	2.1	1	4	15	3	251	.09	5	1.0	1.7	0	MLO
		15	11	0	25	46	19	19	07	155	12	94	8.10	1.6	1	5	31	4	84	.10	4	0.5	0.8	0	SP2
		15	1115	32	18	19	26	32	155	28	53	9.73	2	1	1	5	36	6	50	.08	7	0	3	0.8	0	KAO
		15	1232	1.72	19	56	94	155	29.49	34	01	2.4	1	9	41	9	177	12	19	0.8	1.2	0	KEA
		15	1312	39	28	19	26	70	155	21	76	10	81	2.1	1	3	32	8	72	09	3	0	4	0	7	0	KAO
		15	2136	43	88	19	47	08	156	8	94	36.93		2	1	48	7	252	.12	41	1	3	1	0	0	HVA
		17	1524	34	04	19	19	73	155	12	54	6	13		1	3	32	6	81	.11	5	0.4	1.0	0	SP2
		18	0	5	55	95	19	25	28	155	20	07	4.12	1.8	1	1	30	12	101	.14	3	0	3	0	7	0	KAO
		18	845	42	45	19	20	30	155	7	59	8	08	2.2	2	1	35	7	92	08	5	0.4	0.7	0	SP4
		18	2312	4	20	19	26	58	154	56	40	5.24	1.9	1	9	41	4	143	13	5	0	5	0	8	0	KEA
		18	2325	42	00	18	43	40	156	39	55	29.76	4.7	4	0	57	8	324	10	103	1.3	2.4	0	DIS
		19	415	57	35	19	21	04	155	49	59	9.63	2.4	1	9	38	4	121	.18	10	0.5	0	6	0	KOA
		19	850	48	25	19	50	87	155	46	77	13.57		1	4	27	1	160	.11	13	0	8	0.9	0	HVA
		19	1124	8	19	19	25	48	155	19	17	7.66	2.2	1	2	28	8	79	.15	3	0	5	0.8	0	KAO
		20	151	35	08	19	19	32	155	12	19	8.43	2.3	2	2	43	5	92	.10	5	0	4	0	5	0	SP3
		20	822	24	59	19	20	59	155	13	25	7.78	1	5	1	3	23	3	62	.06	4	0.4	0	8	0	SP2
		20	1557	6	14	19	21	83	155	11	28	3.27	1.5	1	3	18	3	111	04	3	0	5	0	4	0	SER
		20	1649	16	62	19	22	61	155	14	60	3	14	1.8	1	4	19	5	82	07	2	0	3	0	4	0	SBC
		21	10	7	22	88	18	41	51	155	10	43	10.35	2.7	2	2	41	5	281	.15	60	3	5	5.3	0	LOT
		21	11	5	8	68	19	23	79	155	15	11	2.76		0	7	12	4	97	07	2	0	4	0	5	0	SBC
		21	11	5	20	30	19	23	82	155	15	16	2.35		0	6	8	2	100	.05	2	0	4	1.3	0	SBC
		21	11	5	42	85	19	23	75	155	15	24	2.50		0	7	11	2	95	.07	2	0	3	0.7	0	SBC
		21	11	5	57	10	19	23	82	155	15	24	2.80		0	7	12	4	100	.04	2	0	3	0	7	0	SBC
		21	11	6	17	38	19	23	72	155	15	10	2	81	1	5	1	1	11	2	91	.06	2	0	4	0.5	0	SBC
		21	11	6	40	30	19	23	75	155	15	37	3	48	2	1	1	1	16	4	97	11	2	0	4	0	4	0	SBC
		21	11	7	58	57	19	23	67	155	15	18	2	39	2.1	1	6	12	4	91	.05	2	0	3	0	5	0	SBC
		21	11	9	49	48	19	23	68	155	15	10	3	26	3.0	3	3	44	6	44	.12	2	0	3	0	4	0	SBC
		21	1112	36	28	19	23	84	155	15	40	3	01	2	2	2	2	42	6	67	.11	2	0	3	0	3	0	SBC
		21	1114	17	33	19	23	83	155	15	42	3	04	2.5	2	0	33	7	66	.11	2	0	3	0	3	0	SBC
		21	1119	28	09	19	23	91	155	14	93	3	22	2	4	1	9	38	7	59	.11	2	0	3	0	4	0	SBC
		21	1120	5	36	19	23	22	155	14	73	2	73		1	2	11	3	108	.07	3	0	4	0	5	0	SBC
		21	1124	2	89	19	23	74	155	15	04	3	39	2	3	1.7	20	5	90	.09	2	0	3	0.4	0	SBC
		21	1124	22	55	19	23	64	155	15	12	2.65		1	2	8	3	95	.06	2	0	7	1.1	0	SBC
		21	1124	56	75	19	23	77	155	15	12	2.59		1	5	16	4	94	09	2	0	3	0.4	0	SBC
		21	1125	8	73	19	23	75	155	15	00	2	77		1	5	15	4	89	08	2	0	3	0	5	0	SBC
		21	1125	28	34	19	23	70	155	15	09	2.45	1	9	1	6	17	4	92	.09	2	0.3	0	4	0	SBC
		21	1125	41	63	19	23	82	155	15	11	2.26		1	6	15	4	96	.07	2	0	3	0.5	0	SBC
		21	1126	3	80	19	23	96	155	14	89	2.76		1	5	13	3	96	.07	2	0	3	0.6	0	SBC
		21	1126	22.27	19	23	54	155	11	88	2	73	2.4	1	4	28	5	75	.11	2	0	3	0.3	0	SBC

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	RMS SEC	MIN DIS	ERH KM	ERZ KM	DD FM	REVIS
1991	AUG	21	1128	36.85	19	23.40	155	14.95	2.70	2.6	1.6	23	4	.74	11	2	0.3	0.3	0 SBC
		21	1129	50.35	19	23.75	155	15.27	2.79		1.4	15	4	.96	09	2	0.3	0.4	0 SBC
		21	1130	18.39	19	23.76	155	15.09	2.99	2.2	1.6	27	5	.57	10	2	0.3	0.3	0 SBC
		21	1131	2.87	19	23.64	155	15.04	2.67	1.7	1.5	14	3	.92	08	2	0.3	0.5	0 SBC
		21	1131	36.80	19	23.60	155	15.15	2.61	1.8	1.7	19	5	.95	.09	2	0.3	0.4	0 SBC
		21	1132	38.68	19	23.54	155	15.26	0.03	2.0	1.9	26	6	.54	.13	2	0.2	0.4	0 SBC
		21	1133	50.42	19	23.80	155	15.03	3.32		1.2	12	3	.96	.04	2	0.4	0.6	0 SBC
		21	1135	46.60	19	23.67	155	14.91	2.98	1.9	1.6	18	3	.65	.09	2	0.3	0.4	0 SBC
		21	1138	29.16	19	23.12	155	14.61	3.61	2.5	1.9	38	5	.47	.10	3	0.3	0.3	0 SBC
		21	1144	52.35	19	22.93	155	14.47	3.75	1.8	1.5	21	3	.77	.08	2	0.3	0.4	0 SBC
		21	1149	1.51	19	23.03	155	14.50	3.96	2.4	1.7	36	5	.49	.09	3	0.3	0.3	0 SBC
		21	1152	38.64	19	23.77	155	14.06	0.15		1.2	7	0	156	.04	2	0.7	1.1	0 SBC
		21	1153	50.77	19	23.33	155	14.96	2.78		1.2	11	2	.104	.05	2	0.4	0.6	0 SBC
		21	1154	59.58	19	23.02	155	14.53	4.12		0.9	7	2	.139	.05	3	0.9	1.8	0 SBC
		21	1157	35.96	19	23.67	155	15.07	2.57		0.9	7	0	.93	.03	2	0.5	0.8	0 SBC
		21	12 0	0.45	17	19.23	30	155	14.75	2.90		0.9	6	2	.105	.03	3	0.4	0.8	0 SBC
		21	12 1	59.57	19	23.97	155	15.74	2.78		1.0	6	0	.125	.01	2	0.6	0.9	0 SBC
		21	12 2	39.50	19	23.31	155	14.87	2.80		1.1	6	0	.115	.14	2	0.8	2.5	0 SBC
		21	12 7	50.05	19	23.31	155	14.79	3.15	2.4	1.7	36	7	.47	.08	3	0.3	0.3	0 SBC
		21	1228	9.42	19	23.42	155	15.00	2.09		0.5	8	1	.106	.02	2	0.4	0.8	0 SBC
		21	1231	28.70	19	23.52	155	15.01	2.41		0.9	7	0	.101	.02	2	0.4	0.8	0 SBC
		21	1231	52.06	19	24.36	155	16.84	0.09		0.9	5	1	.159	.09	1	2.9	2.4	0 SBC
		21	1233	37.58	19	23.59	155	15.04	2.91		0.8	7	0	.109	.06	2	0.6	0.9	0 SBC
		21	1235	42.85	19	25.19	155	14.93	3.51		1.2	8	1	.203	.02	1	1.4	0.5	0 SBC
		21	1247	33.62	19	23.97	155	15.64	1.72		0.9	9	1	.113	.02	2	0.3	0.5	0 SBC
		21	1257	16.44	19	23.15	155	14.78	2.83		1.1	10	2	.111	.03	2	0.4	0.5	0 SBC
		21	1259	7.54	19	23.18	155	14.73	0.03		0.6	6	1	.125	.24	3	0.4	2.3	0 SBC
		21	13 0	5.21	19	23.30	155	14.77	2.60		1.1	10	2	.105	.05	3	0.4	0.6	0 SBC
		21	13 4	21.41	19	23.39	155	14.83	3.26		1.3	15	2	.86	.09	3	0.4	0.5	0 SBC
		21	1318	32.49	19	23.07	155	14.95	2.97		1.2	15	3	.81	.08	2	0.4	0.4	0 SBC
		21	1319	40.76	19	23.44	155	14.97	3.01		1.1	9	1	.101	.08	3	0.4	0.6	0 SBC
		21	1319	44.95	19	9.41	155	30.92	13.02	2.1	1.8	27	0	.201	.11	5	1.0	0.6	0 DLS
		21	1328	54.79	19	23.66	155	14.95	3.25		1.2	10	2	.93	.05	2	0.4	0.7	0 SBC
		21	1336	29.21	19	22.81	155	14.19	4.11		1.0	10	1	.129	.08	2	0.7	0.8	0 SBC
		21	1341	35.81	19	22.44	155	14.11	2.59		0.8	6	0	.154	.04	2	0.5	0.9	0 SBC
		21	1351	58.83	19	23.12	155	14.73	3.37	2.5	1.6	34	5	.68	.10	2	0.2	0.3	0 SBC
		21	14 5	41.00	19	23.24	155	14.74	3.60		1.0	8	2	.122	.03	3	0.6	1.5	0 SBC
		21	1450	50.77	19	22.59	155	14.04	3.52		1.6	20	4	.90	.05	2	0.3	0.3	0 SBC
		21	1455	27.32	19	23.24	155	14.76	3.23		1.6	17	3	.89	.05	3	0.3	0.4	0 SBC
		21	15 4	42.27	19	23.01	155	14.83	2.99	1.7	1.3	14	3	.88	.06	2	0.3	0.4	0 SBC
		21	1512	8.10	19	23.21	155	14.87	3.12	1.7	1.4	16	3	.81	.07	2	0.4	0.4	0 SBC
		21	1520	3.93	19	23.26	155	14.76	3.61		0.8	7	1	.120	.03	3	0.6	1.7	0 SBC
		21	1523	43.73	19	23.17	155	14.83	4.38		0.8	9	2	.125	.06	2	0.9	1.5	0 SBC
		21	1538	53.27	18	55.43	154	57.82	46.95	2.3	2.1	41	0	.264	.12	44	2.5	3.3	0 DTS
		21	1918	23.91	19	30.47	155	25.23	23.80		1.3	37	6	.97	.10	4	0.6	0.9	0 IML

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP RS	RMS SEC	MIN DIS	ERH KM	ERZ KM	DD FM	REVIS
1991	AUG	21	1946	0.43	19	22.15	155	14.68	2.97	1.8	1.3	22	5	.85	.09	2	0.3	0.3	0 SBC
		21	2213	47.07	19	22.67	155	14.41	3.28		1.4	28	4	.74	.09	2	0.3	0.3	0 SBC
		21	2214	11.54	19	22.87	155	14.43	3.50	2.4	1.5	40	8	.51	.12	2	0.3	0.4	0 SBC
		22	2 5	8.43	19	22.40	155	10.50	3.75	1.8	1.3	25	4	.86	.07	1	0.4	0.4	0 SBC
		22	535	11.83	19	12.21	155	32.67	7.04		1.5	22	0	.88	.16	7	0.6	1.5	0 LSW
		23	242	36.42	19	27.13	155	19.89	7.16	2.2	2.1	0	26	8	120	.11	2	0.4	0.8	0 KAO
		23	323	51.45	19	23.03	155	14.42	3.93	1.9	1.6	24	7	.99	.09	2	0.4	0.4	0 SBC
		23	17 1	27.68	19	17.53	155	27.58	10.72		1.4	30	4	.49	.12	6	0.4	0.9	0 LSW
		23	1818	14.45	19	20.66	155	12.87	8.39	2.1	2.1	51	7	.64	.12	4	0.4	0.6	0 SP2
		23	2132	11.18	19	19.72	155	11.77	7.96	2.8	3.0	53	7	.88	.13	6	0.4	0.5	0 SP3
		24	313	52.92	19	24.27	155	17.48	1.69	2.1	1.1	23	6	.47	.10	1	0.2	0.2	0 SSC L
		24	539	43.75	19	28.67	155	27.19	2.66	2.1	1.4	43	10	.79	.13	6	0.3	0.8	0 KAO
		25	1312	24.51	19	20.90	155	4.74	6.72	1.7	1.9	40	3	.01	.13	4	0.5	0.8	0 SP5
		25	1338	2.59	19	24.29	155	17.37	2.04	2.0	1.4	14	5	.101	.09	1	0.3	0.4	0 SSC L
		25	19 5	26.85	19	19.92	155	12.46	7.60	1.6	1.4	32	5	.77	.08	5	0.4	0.7	0 SP2
		25	2120	31.21	19	23.11	155	14.78	3.50	2.2	1.5	31	7	.68	.10	2	0.3	0.4	0 SBC
		26	1327	36.43	19	8.39	155	31.84	34.75	2.0	1.9	44	6	.146	.07	7	0.6	1.1	0 DLS
		26	1721	39.85	19	29.43	155	26.35	3.61	2.1	2.0	39	8	.102	.11	5	0.3	0.9	0 KAO
		27	1240	47.07	19	13.67	155	26.38	8.54	1.7	1.5	23	4	.126	.09	4	0.5	0.9	0 LSW
		27	1258	20.53	19	20.41	155	12.90	8.87	2.0	1.9	38	5	.66	.10	4	0.1	0.6	0 SP2
		27	15 2	47.81	19	25.22	155	19.66	6.00	2.3	1.4	31	5	.74	.11	3	0.1	0.7	0 KAO
		28	224	58.07	19	20.73	155	9.18	8.33		1.5	26	1	.77	.06	4	0.4	0.8	0 SP4
		28	1630	50.91	19	20.12	155	11.68	8.50	2.3	2.1	40	5	.81	.11	5	0.4	0.6	0 SP3
		28	1843	7.92	19	19.82	155	13.59	8.31		1.5	28	3	.84	.08	3	0.4	0.8	0 SP2
		28	2015	1.63	19	20.61	155	44.37	30.55		1.6	40	6	.113	.07	16	0.7	1.0	0 KAO
		28	2117	14.11	19	20.47	155	13.15	8.43		1.3	23	4	.64	.09	4	0.4	0.9	0 SP2
		29	1035	6.46	19	20.24	155	12.47	8.75	2.0	1.7	41	5	.73	.11	5	0.4	0.6	0 SP2
		29	1036	44.75	19	46.31	156	7.06	16.53		1.6	18	1	.310	.09	31	3.1	13.8	0 HUA
		29	11 4	4.67	19	23.33	155	41.97	3.26	2.6	1.6	36	7	.74	.09	2	0.3	0.3	0 SBC
		29	1526	0.23	19	20.02	155	9.92	7.51	2.3	2.2	40	3	.84	.09	4	0.4	0.6	0 SP3
		30	1415	36.76	19	19.91	155	8.73	6.84	1.9	1.5	37	4	.71	.11	4	0.1	0.9	0 SP4
		30	1617	11.35	19	14.74	155	29.13	9.31	1.8	1.4	26	6	.105	.13	2	0.4	0.9	0 LSW
		31	516	51.58	19	19.69	155	10.70	6.83	1.6	1.5	35	6	.93	.11	5	0.4	0.7	0 SP3
		31	844	53.34	19	16.80	155	19.35	8.11		1.3	24	3	.154	.09	2	0.6	0.8	0 SPR
		31	9 6	58.92	19	19.93	155	7.51	6.09		1.4	24	4	.100	.08	5	0.4	0.9	0 SP4
		31	2050	38.64	19	16.82	155	30.24	10.04	2.3	1.9	37	3	.50	.13	3	0.4	0.8	0 LSW
		31	2223	40.69	18	53.90	155	17.72	27.03		1.4	27	6	.275	.09	34	1.4	2.2	0 IOI
		31	2247	46.31	20	0.61	155	36.38	11.81		1.6	10	3	.109	.06	18	1.1	0.8	0 KOH
	SEP	1	1442	37.42	19	23.61	155	26.16	7.92	2.2	1.7	41	4	.31	.10	3	0.3	0.6	0 KAO
		1	1540	18.08	19	19.36	156	21.82	40.35	1.8	2.0	32	4	.290	.10	.0	1.6	1.6	0 DTS
		1	1636	33.71	19	19.01	155	25.83	35.36	3.1	2.5	50	5	.235	.12	.5	1.4	1.9	0 IHB
		1	1953	4.48	19	25.96	155	19.06	6.36	2.7	1.3	31	6	.92	.13	3	0.4	0.8	0 KAO
		2	116	54.97	19	22.72	155	14.44	3.18	1.8	1.3	20	4	.81	.06	2	0.3	0.3	0 SBC
		2	7 1	57.80	19	23.92	155	37.09	10.36	1.6	1.5	32	3	.33	.10	3	0.4	0.6	0 KAO
		2	932	5.81	19	20.14	155	8.32	8.34	2.0	1.3	36	3	.80	.11	4	0.4	0.8	0 SP4

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	SEP	2	1242	45.43	20	0	155	35.76	10	0	2	3	2.0	28	6	173	13	18	0.7	0.5	0	KOH
		2	1732	53.17	19	26.42	155	29.78	9.51	2.3	1	9	41	5	42	.11	8	0.3	0.8	0	KAO
		2	1955	8.08	19	19	86	155	11.92	8	09	1.6	1.5	35	4	85	09	5	0.4	0.7	0	SF3
		3	1157	12.64	19	20	48	155	13.06	7	77	1.8	1.7	37	3	65	11	4	0.4	0.7	0	SF2
		3	1359	45.78	19	18	68	155	12.71	6	90	1	9	1.5	36	2	98	09	3	0.5	0.8	0	SF2
		3	2024	59.05	19	20	24	155	12.04	8	09	1	9	1.4	22	5	77	06	5	0.5	0.9	0	SF3
		3	2211	55.99	19	23.09	155	14.83	3	29	2	4	1.6	28	7	64	06	2	0.3	0.3	0	SBC
		3	2228	42.34	18	46	73	156	38.47	36.41			1.9	22	3	323	11	98	2.6	3.8	0	DIS
		4	7	5	16.46	19	12	15	155	37.15	9.67	4	1	4.5	54	8	94	.17	5	0.4	0.6	0	LSW F
		4	1028	44	65	19	25	31	155	18.66	6.09	2	1	1.1	29	5	77	.12	2	0.4	0.6	0	INT
		4	1318	16.29	19	25	31	155	19.11	4	99	2.2	1.4	25	4	75	11	3	0.4	0.7	0	KAO
		4	1930	52.56	19	17	91	155	27.55	8.80	2.6	2	7	54	10	46	.16	7	0.4	0.7	0	LSW
		4	2241	27.25	19	25	31	155	15.29	7	58	1	8	1.0	11	2	151	.14	2	1.4	1.5	0	INT F
		4	2247	51.10	19	27	47	155	28.41	10.38	2.0	1	5	37	7	56	.10	7	0.3	0.8	0	KAO
		5	456	58	61	19	25	70	155	15.77	11	14	2	1	1.2	12	2	148	.09	3	1.2	1.4	0	INT F
		5	535	23.30	19	20	09	155	7.39	8	53			1.5	35	4	99	09	5	0.4	0.6	0	SF4
		5	538	1.06	19	23	19	155	14.90	3	50	2	0	1	5	21	7	70	08	2	0.3	0.3	0	SBC
		5	628	24	93	19	18	09	155	13.26	8	62	2.5	2.5	45	8	93	10	2	0.4	0	7	0	SF2
		5	713	26.09	19	50.05	155	14.49	30	86	2.1	1	7	35	3	190	10	12	0.8	1	4	0	KEA
		5	1456	39	87	19	25.76	155	30.37	10	75	2.2	1.7	33	5	39	.09	5	0.4	0.7	0	KAO
		5	1727	16	43	19	19.76	155	11.86	6	61	2	0	1	9	41	4	86	12	6	0.4	0	8	0	SF3
		5	2115	26	03	19	32	09	155	41.35	9	35	1	9	1.3	23	4	171	.13	8	0.9	1	0	0	MLO
		5	2144	37.96	19	24	33	155	25.78	4	25	1	8	1	3	27	5	52	.11	2	0.3	0.6	0	KAO
		5	2356	34.24	18	55	37	155	3.55	35	41	3	9	3.4	61	14	257	11	41	0.8	2.0	0	LOI F
		7	15	7	7.07	19	20	41	155	6.57	4.11	0	9	1	2	40	13	106	14	6	0.4	1.5	0	SSF
		7	2214	47.69	19	19	43	155	11.42	5	44	1	6	1	7	50	15	97	13	6	0.3	0.8	0	SF3
		8	8	5	10	90	19	20.53	155	6.07	5.52	1.7	1.8	41	7	109	11	6	0.4	0.9	0	SF4
		8	14	6	34.53	19	25.09	155	19.86	7	43	1	9	1.2	25	6	98	08	3	0.4	0.7	0	KAO
		8	2134	38	61	19	22	24	155	10.71	3	12	2	0	1	2	19	4	123	.07	2	0.5	0.4	0	SER
		8	2322	8.83	19	13.55	155	23.35	34.95	2	0	1.9	41	4	152	10	2	0.7	1	1	0	DEP
		9	1016	16	90	19	18.02	155	15.29	8.32	1	6	1.4	30	3	126	.06	4	0.4	0	6	0	SF1
		9	1146	22.17	21	41	12	155	46.63	16	24	3	7	1.8	32	1	334	.14	205	3.7	16.9	0	DIS
		9	2254	29	48	19	17.38	155	30.60	8.82		1	3	22	5	80	11	4	0.4	1	1	0	LSW
		10	1026	17.86	19	25.42	155	19.73	6.17	2	0	1.2	25	7	72	.10	3	0.4	0	8	0	KAO
		10	2329	33.32	19	7.34	155	32.43	6.90			1.4	17	4	232	11	9	1.0	1.6	0	LSW
		10	2352	26.33	19	13	44	155	27.04	6.27	1	7	1	4	27	5	115	14	6	0.4	1.0	0	LSW
		11	340	0	36	19	25	09	155	38.88	2.94	1.8	1.0	12	2	196	.07	6	0.9	1.6	0	MLO
		11	530	21.88	19	21.88	155	13.38	2.96	2	0	1.5	28	8	51	.07	1	0.3	0	3	0	SER
		11	7	1	24	60	19	17	67	155	16.41	7	63	1	9	1	6	32	5	143	10	4	0.5	0.8	0	SF1
		12	3	2	45	66	19	18.29	155	14.14	9.70	3	1	3	2	49	7	83	.11	3	0.4	0.5	0	SF2
		12	528	18	67	19	20.52	155	12.61	8	17	1	9	1.7	34	3	69	11	4	0.4	0	7	0	SF2
		12	655	33	89	19	13.92	155	26	09	10.01		1	2	12	3	123	06	4	0.6	1.2	0	LSW
		12	1236	46.57	20	1.05	155	20.80	10	53	0	9	1	9	26	3	211	24	14	1.9	0.9	0	KEA
		13	1616	15.61	20	11	37	155	24.91	73.08	1.7	1	7	17	1	320	.20	34	6.4	2.2	0	KEA
		13	1732	39.15	19	20	54	155	8.90	9.03		1	5	37	4	68	.07	3	0.4	0	6	0	SF4

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	SEP	13	1754	20.09	20	20	53	155	43	91	31.71	2.6	2.3	45	3	309	09	24	1	1	0	8	0	KOH
		13	19	2	59	31	19	23	57	155	16	82	2.91	2.1	2.1	45	8	35	.10	0	0	2	0.2	0	SSC
		14	317	42	04	19	10	96	155	37.79	9.53		1.6	29	4	101	.16	7	0.6	1.4	0	LSW
		14	547	18.03	19	21	90	155	30	44	9.14		1	5	33	3	48	10	5	0.4	0.8	0	KAO
		14	924	9	12	19	29.18	155	58.48		11.11	2.7	2	5	43	7	219	.15	6	0	9	0.4	0	KOH
		15	037	9	31	19	21	80	155	2	85	6.76	0.8	1	6	35	4	209	12	5	1	0	0.6	0	SF5
		15	417	21.65	19	25.12	155	19.50	5.40	2.4	2	0	44	8	47	.13	3	0.3	0	7	0	KAO
		15	14	5	46	82	19	21.84	155	7	35	8.64	2.8	3.0	50	6	165	10	3	0.6	0.4	0	SF4
		15	1751	28	59	19	11.65	155	19.82	45.48			1.7	21	0	230	06	16	1.8	3.4	0	DEP F
		16	454	30	09	19	25	10	155	19	80	6.73	1.6	1.0	25	5	65	.11	3	0	4	0	8	0	KAO
		16	939	11	92	19	18	49	155	14.06		9	80	2.2	1	8	41	6	165	12	7	0.5	0	7	0	SF2
		16	10	2	7	60	19	29	33	155	27	45	6.26	2.2	1.2	35	9	87	.11	5	0	3	1.2	0	KAO
		16	1733	17	27	19	22	68	155	14	43	3.41	1.9	1.5	21	5	82	06	2	0.3	0.3	0	SBC
		16	1844	19.77	20	39	39	155	50	87	32.09		1.9	27	5	326	08	59	2.3	1.2	0	DIS
		16	2216	8	15	19	57	89	155	28	36	36.16	1.4	1	6	20	2	244	10	23	1	2	1.8	0	KEA
		17	515	43	04	19	23	00	155	14	34	3.70	2	3	1	5	31	5	60	.16	2	0	3	0.4	0	SBC
		17	716	13	01	19	16	19	155	25	84	10	37		1	2	19	4	60	.07	5	0	4	1	1	0	LSW
		17	1036	56	01	19	22	06	155	28	92	9.97	1.7	1	4	27	5	41	10	2	0.4	0.7	0	KAO
		18	039	57	70	19	20	39	155	7	50	8.51	2.4	2	5	44	5	92	11	5	0.5	0.6	0	SF4
		18	157	22	95	19	25	53	155	20	32	7	19	1	9	1	1	26	6	65	.09	4	0	4	0	8	0	KAO
		18	514	36	61	19	21	97	155	11	14	3.09		1	1	16	2	115	07	2	0	4	0	4	0	SER
		18	1014	5	04	19	52.51		155	54.72		11	27	2.6	2	1	48	5	205	.10	22	0	9	1	2	0	HUA
		18	1435	4	43	19	22	21	155	10.67	2.80	1	8	1.2	16	3	122	10	1	0	6	0.5	0	SER
		18	1643	11.61	19	59.56		155	58	75	14	15	2	5	1	9	32	5	241	.07	26	1.1	0.9	0	KOH
		19	532	5	30	19	19	92	155	13	41	7.50	1	5	1	2	29	4	67	.08	5	0	4	0	8	0	SF2
		20	0	0	31	46	19	59	93	155	29	60	13	48	2	3	2	1	40	4	210	09	23	1	0	0	7	0	KEA F
		20	523	14	14	19	16	64	155	22	09	6.50		1	1	28	7	131	.12	7	0	5	1	3	0	SNR
		20	6	6	11.59	19	20	16	155	6	56	8	57	1	7	1.6	34	6	111	08	6	0	4	0	6	0	SF4
		20	859	9.37	19	25	27	155	19	67	6.54	0	9	1	2	30	7	59	.10	3	0	4	0.7	0	KAO
		20	914	16.41	19	19	51	155	10	81	9.18	2	2	2	0	37	3	98	.11	5	0	5	0	7	0	SF3
		20	920	10	18	19	13	60	155	11	18	23.30	2	6	2.8	42	3	191	11	7	0	8	1	1	0	DEP
		20	1634	54	48	19	13	36	155	23	18	35.92	2	0	1	6	40	5	154	.09	2	0.8	1	1	0	DEP
		21	0	0	24	53	19	19.68	155	9	52	7	48	1.6	1	6	32	5	88	.07	4	0	4	0	8	0	SF3
		21	0	2	5	29	19	19.84	155	9.52		8.24		1	3	24	5	84	.06	4	0.5	0	8	0	SF3
		21	913	45	51	19	27	16	154	54	05	8.37	1	9	1	7	29	3	146	.12	5	0.7	0	6	0	DEP
		21	1017	40	51	19	28	56	155	26	88	5.41	2	1	1	2	30	8	81	.13	7	0	5	1	8	0	KAO
		21	1443	49	11	19	25.27		155	16	62	12.68	2.0	1	1	17	2	106	08	1	0	8	1	0	0	INT F
		21	1834	53.53	19	21	31		155	8	12	8.65	2	1	1.9	40	4	72	.10	3	0.4	0	6	0	SF4
		21	1853	49	82	19	21	59	155	8	11	9.02	1	9	1.8	38	5	69	.09	3	0.4	0.6	0	SF4
		21	21	2	28.78	19	17.54		155	47	01	10.31	3.0	2	9	43	4	93	.09	10	0	4	0	3	0	KOH
		21	2138	0	57	19	24	50	155	17	42	2.54	1	9	0	9	17	5	75	12	1	0	3	0	2	0	SBC F
		21	2147	31	23	19	13	62	155	23	42	35	86	2	8	2.6	48	8	151	11	2	0	7	0	9	0	DEP
		21	23	0	32	30	19	9	61	155	35	74	10.64		1	5	14	2	111	.11	10	0	7	1	2	0	LSW
		22	154	4	87	19	13	34	155	23	45	36.05	2	5	2	3	48	6	154	10	11	0	7	0.9	0	DEP
		22	1438	39	20	19	16.84		155	29	06	9.72		1	0	23	5	54	.10	4	0.4	0	9	0	LSW

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	MAG	MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	SEP	22	2231	14.69	19	12.42	155	21.85	47.08		2.1	45	5	183	.69	5	0.7	1.0	0	HAW
		23	23 0	57.85	19	18.76	155	26.42	10.79		1.4	28	3	54	.10	6	0.4	0.9	0	ISW
		23	2328	56.35	19	23.19	155	14.84	3.13		1.7	32	6	66	.09	2	0.3	0.3	0	SBC
		23	2330	35.11	19	23.14	155	14.85	3.47		1.5	20	6	66	.06	2	0.3	0.4	0	SBC
		24	1 4	11.72	19	19.92	155	8.53	7.05		1 8	38	6	77	.09	5	0.4	0.8	0	SP4
		24	425	13.71	19	25.51	155	19.32	6.37		1.0	21	3	78	.11	3	0.5	1.1	0	KAO
		24	544	16.55	19	25.15	155	17.21	12.39		1.1	16	3	89	.09	1	1.3	1.0	0	UNK
		24	944	59.76	19	19.99	155	11.51	8.07	1	6	1 4	35	5	84	.11	5	0.5	0.7	0	SP3
		24	1456	41.92	19	13.85	155	33.52	10.93	2	7	2.5	36	4	117	.15	6	0.5	0.7	0	ISW
		24	18 1	36.04	19	48.74	155	25.33	17.29	1	9	0.9	20	1	284	.07	5	2.3	2.2	0	KEA
		24	2152	25.56	19	18.73	155	15.28	8.57	1	9	1 7	34	3	81	.11	3	0.5	0.8	0	SP2
		25	144	2.68	19	25.39	155	19.47	7.48	2	5	1.5	30	5	66	.12	3	0.4	0.8	0	KAO
		25	739	51.47	19	11.89	155	35.44	7.82	3	8	3 8	49	6	91	.21	6	0.5	1.0	0	ISW
		25	1352	13.46	19	24.97	155	19.64	6.30	1	9	1.0	23	5	64	.08	2	0.4	0 7	0	KAO
		25	14 3	18.86	19	10.77	155	41.21	42.25		1	4 14		3	123	.08	11	0.6	1.4	0	ISW
		25	1836	55.19	19	13.45	155	23.24	35.31	2	0	1.7	40	6	154	.09	11	0.7	1.0	0	DEP
		25	2138	9.02	19	20.44	155	9.78	7.91	1	6	1 6	33	4	76	.10	3	0.5	0 7	0	SP3
		25	2327	9.54	19	16.65	155	12.66	2.27	2.3		2.1	39	6	163	.12	2	0.5	0 3	0	SSF
		25	2329	43.14	19	17.26	155	12.43	1.65	1.9	1	5	26	1	154	.12	2	0.5	0 4	0	SSF
		25	2344	46.60	19	16.38	155	12.43	2.11		1	1	13	4	209	.08	2	1.0	0.4	0	SSF
		26	054	46.93	19	21.87	155	13.18	3.06	1	7	1 4	15	2	98	.04	1	0.5	0.4	0	SSF
		26	123	50.16	19	16.41	155	12.56	2.09	2.0	1	8	28	5	190	.08	2	0.5	0.3	0	SSF
		26	4 5	13.94	19	16.73	155	12.39	1.99	2.1	1	9	35	7	163	.10	2	0.5	0 3	0	SSF
		26	524	15.46	19	16.87	155	12.58	2.08	2	2	1 9	34	4	160	.11	2	0.5	0 3	0	SSF
		26	8 3	19.30	19	16.92	155	12.37	1.90	1	6	1 4	25	4	160	.10	2	0.5	0.3	0	SSF
		26	924	36.30	20	6.13	156	4.71	43.14	3	2	2 9	56	15	278	12	31	0.7	0.7	0	MAU
		26	2320	28.43	19	20.53	155	13.00	8.19	1	8	1 5	41	4	65	.12	4	0.5	0.6	0	SP2
		27	223	41.82	19	21.16	155	29.84	8.93	2	3	2.1	44	3	35	.10	5	0.3	0.7	0	KAO
		27	358	16.37	19	19.42	155	26.53	40.69			1.3	36	4	87	.12	6	0.4	0.6	0	KAO
		27	439	16.91	19	22.69	155	33.34	6.47	2	2	1 7	25	3	50	.09	4	0.4	1.2	0	MLO
		27	1451	27.15	19	24.36	155	16.85	1.06	1	6	1 0	17	3	96	.11	1	0.3	0.2	0	SBC
		27	1858	43.45	19	24.30	155	17.16	1.33	1	8	1 1	17	3	68	.09	1	0.3	0.2	0	SBC
		29	1623	50.13	19	21.96	155	13.10	3.22	1	7	1 2	16	4	97	.03	1	0.4	0 4	0	SBR
		29	2014	18.80	19	16.96	155	12.17	1.88		1	1 9	19	3	181	.09	2	0.6	0 4	0	SSF
		30	155	26.73	19	24.95	155	37.55	3.16	2	7	2 0	40	8	72	13	5	0.3	0 9	0	MLO
		30	414	17.14	19	20.03	155	6.79	6.79	1	7	1 4	26	4	111	10	5	0.4	0 8	0	SP4
		30	534	1.43	19	20.74	155	6.24	7.02	1	2	1 5	26	5	102	10	5	0.4	0.6	0	SP4
		30	619	54.34	20	32.42	156	0.41	37.68			2 0	24	7	336	.10	52	1.6	0 8	0	DIS
		30	1315	14.33	19	10.51	155	17.22	54.59	2	1	1 6	14	1	214	.10	14	2.0	1.9	0	DEP
		30	1419	20.33	19	22.78	155	14.52	3.38	1	9	1.3	21	5	75	.07	3	0.3	0 3	0	SBC
		30	2017	18.01	19	20.02	155	13.19	6.77	3	8	1 4	32	3	67	11	5	0.5	0 9	0	SP2
		30	2256	12.89	19	19.06	155	26.50	10.51		1	1 19		4	68	.09	6	0.4	0 9	0	KAO
		30	2324	1.29	19	14.74	155	29.34	9.56		1	3 14		4	107	10	2	0.5	1 0	0	ISW
	OCT	1	049	51.72	19	22.75	155	14.37	3.49	2.1	1	2 24		4	84	06	2	0.3	0 3	0	SBC
		1	754	11.71	19	22.26	155	10.67	2.86	1	9	1 3	21	2	123	.09	1	0.5	0.4	0	SBP

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	MAG	MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	OCT	1	912	54.03	19	22.94	155	4.05	6.32	2.5	2	7 44		6	94	11	3	0.4	0.4	0	SP5
		1	10 7	16.83	19	19.93	155	7.31	7.61	1.7	1	4 20		3	104	06	5	0.4	0 7	0	SP4
		1	1415	4.03	19	17.54	155	21.77	6.22			1.0	13	3	121	08	6	0.5	1.4	0	SWR
		1	2028	56.17	19	23.09	155	10.73	2.03	1.5	0.9	8	2	149	05	2	1 0	1.1	0	SWR
		2	151	39.96	19	19.16	155	15.04	7.36	1.8	1.6	37	4	96	.10	4	0 4	0 6	0	SP1
		2	354	29.21	19	8.34	155	33.15	35.34	2.0	1	9 11		5	217	10	10	1.0	0 8	0	LWS
		2	1546	27.25	19	3.69	155	17.02	3.37	1.8	1.3	17		2	58	.08	1	0 4	0 3	0	SSC
		2	1629	35.95	19	15.77	156	20.56	44.17	4.4	4	2 54		11	278	.10	49	1.1	1.3	0	DIS
		2	1655	18.77	19	14.75	156	16.18	42.36		1	4 29		3	288	.10	42	2.1	1 8	0	KOA
		3	351	40.15	19	21.93	155	28.40	8.26	1.7	1	5 40		3	38	.13	2	0.4	0.7	0	KAO
		3	449	28.79	19	58.69	155	32.10	44.17		1	2 25		2	210	11	19	1.7	2.1	0	KLA
		3	545	39.64	19	25.08	155	19.21	6.50	1.9	1	0 24		2	70	.10	3	0.4	0 8	0	KAO
		3	646	18.07	19	22.68	155	14.68	3.31	1.6	1	2 20		6	89	.10	2	0.3	0.4	0	SBC
		3	1157	5.95	19	14.12	155	28.44	6.83		1	3 21		2	103	16	3	0 5	1 5	0	LSW
		3	1221	32.71	19	30.01	155	17.83	13.35	2.3	1	7 49		10	53	.13	5	0.5	0.4	0	DEP
		3	17 4	56.91	19	22.53	155	14.63	3.35	1.6	1	5 18		3	89	06	2	0 3	0 4	0	SBC
		3	1731	4.91	19	13.55	155	25.03	35.69	2.3	2	0 55		11	138	.10	2	0 6	0.8	0	DIS
		3	20 3	51.28	19	16.03	155	31.01	8.14		1	4 33		4	52	.19	2	0.4	1 0	0	LSW
		3	2312	5.02	19	24.39	155	17.07	1.73	2.1	1	2 17		4	76	.12	1	0 3	0 2	0	SSC
		3	2331	50.46	19	24.15	155	17.38	1.72	1.6	1	0 16		4	84	12	1	0 2	0.3	0	SSC
		4	2 3	11.58	19	21.77	155	25.19	12.73	1.7	1	3 32		3	45	09	4	0.5	0 6	0	KAO
		4	310	58.02	19	23.22	155	2.34	7.59	0.8	1	6 36		4	139	.13	6	0 5	0.7	0	SP5
		4	1245	9.72	19	31.12	156	20.97	42.07		1	8 18		2	324	13	60	2 6	4.8	0	DIS
		4	14 9	43.58	19	47.70	155	35.47	12.80		1	6 22		1	112	11	10	0.6	0.5	0	KEA
		4	17 9	16.83	19	22.53	155	24.68	11.51	3.6	3	8 54		5	26	.12	5	0 3	0.4	0	KAO
		4	1755	11.60	19	45.04	154	53.38	36.21	1.8	1	7 12		3	234	11	16	1 6	1 5	0	HIL
		5	332	18.18	19	22.73	155	30.28	8.98	1.7	1	4 40		2	47	10	5	0 3	0 7	0	KAO
		5	656	38.31	19	19.42	155	11.13	7.85	1.6	1	4 38		4	99	09	5	0.4	0.7	0	SP3
		5	18 0	49.88	19	46.73	155	47.75	42.52		1	4 18		0	331	.10	11	1 5	0 5	0	HUA
		5	1841	2.28	19	45.84	156	7.56	43.66	2.6	2	5 52		8	247	.10	38	1 0	1 2	0	HUA
		6	321	46.72	19	22.64	155	3.63	8.14	1.1	1	6 41		4	119	13	4	0 4	0 5	0	SP5
		6	2132	38.32	19	20.07	155	8.04	6.86	0.9	1	5 27		0	86	10	5	0.5	1 1	0	SP4
		6	2356	10.24	19	26.57	155	26.75	8.61	2.7	2	5 42		5	46	.12	8	0 3	1 0	0	KAO
		7	217	49.87	19	24.85	155	16.30	1.63	1.8	1	1 13		0	101	10	1	0 3	0 3	0	SBC
		7	440	33.01	19	18.57	155	13.49	8.05	2.1	1	9 54		1	79	.11	3	0.5	0 9	0	SP2
		7	2242	47.17	19	9.94	155	41.73	7.39	2.0	1	7 56		5	151	18	12	0 5	1 7	0	LSW
		8	614	59.57	19	0.09	155	6.11	36.36	1.4	2	0 43		4	253	.09	32	1 4	1 9	0	HOT
		8	935	20.82	19	3.20	155	21.51	38.26	2.0	1	9 45		1	211	.09	16	1 0	1 8	0	HOT
		8	1024	48.99	19	11.65	155	28.32	8.44	2.4	2	1 43		4	113	.16	4	0 5	0.7	0	LSW
		8	14 5	16.28	19	26.43	155	49.62	9.96		1	1 24		2	107	16	10	0 7	0.8	0	MAU
		8	1637	12.44	19	28.11	155	54.11	6.96		1	5 37		3	135	15	7	0 6	1 0	0	MAU
		8	19 6	18.33	19	3.53	155	21.55	36.48		1	5 36		0	209	08	16	1.3	2.4	0	HOT
		8	2317	42.08	19	13.71	155	26.13	35.37		1	5 44		5	139	10	2	0.7	1 1	0	DIS
		9	052	56.81	19	35.15	156	27.32	38.12		1	8 13		4	300	.12	71	1 5	5 0	0	DIS
		9	253	24.75	19	17.27	155	12.69	6.88	1.6	1	4 28		2	164	07	1	0.7	0 8	0	SP2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	FM	NO REMK
1991	OCT	9	2214	37.90	19	22.21	155	29.96	9.52	1.7	1.5	43	3	.94	.08	4	0.3	0.6	0 KAO
		10	050	42.55	19	20.83	155	9.96	7.97	1.6	1.4	41	6	.71	.08	2	0.4	0.6	0 SFS
		10	156	2.99	19	19.84	155	11.93	7.43	2.0	1.8	45	7	.113	.10	6	0.4	0.5	0 SFS
		10	918	4.94	19	34.17	155	40.84	1.09	2.4	1.6	38	6	.130	.12	11	0.4	0.6	0 MLO
		10	1158	39.53	19	15.91	155	27.71	7.72		1.4	35	5	68	12	4	0.3	0.7	0 ISW
		10	1217	52.57	19	33.96	155	41.14	2.07	2.4	1.6	41	10	.127	.15	10	0.5	0.7	0 MLO
		10	1510	34.90	19	20.54	155	13.03	7.39	1.8	1.6	39	5	64	.10	4	0.4	0.7	0 SFS
		10	1556	9.97	19	21.60	155	17.72	8.53	2.0	1.1	15	3	88	.10	3	0.7	1.1	0 SNR L
		10	2027	37.69	19	25.03	155	16.17	11.74	1.5	0.7	19	3	110	.08	1	0.8	1.0	0 TNT L
		10	2036	35.26	19	23.89	155	17.74	14.24	1.9	0.9	20	4	46	12	2	1.0	0.7	0 DEP L
		10	2329	6.16	19	26.53	154	50.19	9.69	2.4	2.2	46	4	246	.14	2	1.3	0.4	0 HER
		11	124	47.43	19	25.98	155	15.98	2.93	2.2	1.2	26	5	128	11	3	0.3	0.3	0 SNC
		11	1015	46.50	19	20.56	155	11.96	9.16	2.3	2.3	46	6	72	.13	4	0.4	0.6	0 SFS
		12	621	17.43	19	29.64	155	29.42	2.40	2.4	1.7	35	8	65	11	5	0.3	0.7	0 KAO
		12	623	42.49	19	30.05	155	29.19	4.76	2.0	1.3	25	6	67	.11	4	0.4	2.0	0 MLO
		12	22 9	4.34	19	18.98	155	8.36	8.07	2.2	2.2	44	6	67	10	3	0.4	0.6	0 SFS
		13	656	24.18	19	21.45	155	7.00	8.04	1.7	1.6	32	4	82	.11	4	0.5	0.7	0 SFS
		13	714	43.36	19	18.61	155	13.46	8.87	2.7	2.7	47	7	78	.11	3	0.4	0.5	0 SFS
		13	852	54.34	19	17.24	155	29.34	10.54		1.1	20	5	54	11	4	0.4	1.1	0 ISW
		13	1343	12.52	19	19.42	155	7.50	6.80	1.7	1.4	25	4	109	.11	4	0.4	0.9	0 SFS
		13	1358	36.19	19	18.27	155	13.52	8.68	2.2	2.2	0	43	5	85	.11	2	0.5	0.6	0 SFS
		13	1519	37.95	19	22.72	155	25.62	11.29	1.6	1.1	28	4	45	.11	4	0.4	0.8	0 KAO
		15	216	49.47	20	6.85	155	29.08	0.45	1.1	1.9	20	0	293	.07	29	2.2	3.5	0 KEA
		15	236	47.07	19	18.24	155	14.99	7.93	1.6	1.3	27	3	131	.07	3	0.4	0.7	0 SFS
		15	1045	4.54	19	19.66	155	7.02	8.56	1.7	1.7	31	3	115	.06	5	0.5	0.8	0 SFS
		15	1253	2.94	19	20.03	155	11.98	9.19	1.6	1.4	26	3	81	.08	5	0.5	0.9	0 SFS
		16	550	39.16	19	35.48	155	35.15	13.87	1.8	1.3	21	4	193	.12	6	1.0	0.5	0 KEA
		16	2138	42.94	19	18.34	155	27.85	9.94	1.7	1.5	30	4	86	.13	7	0.4	0.9	0 ISW
		16	22 7	14.65	19	23.07	155	14.66	3.60	2.4	1.9	40	6	48	11	2	0.3	0.4	0 SBC
		16	2348	34.07	19	24.31	155	17.19	1.40	2.0	1.0	14	4	85	.09	1	0.3	0.2	0 SSC L
		17	036	2.30	19	14.08	155	26.15	10.41		1.4	18	5	139	09	7	0.5	0.9	0 ISW
		17	158	2.75	19	25.58	155	19.88	2.59	1.6	0.9	17	2	74	12	4	0.3	0.6	0 KAO
		17	849	53.45	19	18.84	155	29.40	10.60		1.3	21	4	75	10	7	0.4	1.0	0 ISW
		17	18 2	49.84	19	19.18	155	30.07	9.01		1.3	23	6	57	.11	7	0.4	1.0	0 KAO
		17	1912	8.93	19	16.60	155	15.36	6.44	1.9	1.7	38	5	156	.10	3	0.5	0.8	0 SFS
		17	2030	19.51	19	22.87	155	27.14	5.15	1.6	1.1	22	5	51	13	1	0.4	0.7	0 KAO
		17	2249	49.36	19	19.32	155	11.72	6.20	1.6	1.4	35	5	98	10	5	0.4	0.9	0 SFS
		18	032	35.23	19	19.93	155	11.80	9.53	2.6	2.6	46	6	84	11	5	0.4	0.5	0 SFS
		18	713	0.21	19	26.70	155	19.63	3.27	1.6	1.1	17	3	116	11	3	0.4	0.7	0 KAO
		18	738	20.31	19	28.67	155	27.67	6.25	2.1	1.2	29	4	74	11	6	0.4	1.3	0 KAO
		18	1414	35.56	19	23.11	155	14.57	3.77	2.3	1.6	37	3	47	10	3	0.3	0.4	0 SBC
		18	1417	17.34	19	22.20	155	2.67	7.42	1.3	1.7	32	0	131	11	4	0.5	0.6	0 SFS
		18	1731	1.00	19	19.30	155	15.40	5.72	1.5	1.5	50	17	90	.12	4	0.3	0.8	0 SFS
		19	252	46.73	19	17.32	155	13.37	9.62	1.9	1.5	44	10	109	.11	1	0.5	0.5	0 SFS
		19	427	17.52	19	16.64	155	12.45	8.04	1.6	1.4	47	18	179	.11	2	0.4	0.5	0 SFS

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NO	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	FM	NO REMK
1991	OCT	19	6 7	25.65	19	16.90	155	13.47	6.80		1.6	34	4	157	.13	0	0.6	0.9	0 SFS
		19	1217	39.52	19	15.03	155	35.06	6.15	3.3	3.5	54	14	71	.12	4	0.3	0.8	0 ISW
		19	2134	43.37	19	19.69	155	13.54	5.12		1.2	39	9	65	.12	5	0.4	1.3	0 SFS
		19	2332	30.65	19	19.98	155	8.21	7.83	0.9	1.6	37	4	84	.09	5	0.5	0.7	0 SFS
		20	019	57.31	19	47.96	155	22.90	19.47	2.4	1.7	53	18	210	.11	8	0.6	1.1	0 KEA
		20	453	39.79	19	14.64	155	30.13	8.96		1.4	38	9	64	14	1	0.4	0.6	0 ISW
		20	852	5.47	19	24.12	155	2.82	3.73	1.7	1.5	28	6	107	10	2	0.5	0.6	0 SNC
		20	1444	3.20	19	24.68	155	16.69	1.82	2.7	1.7	20	5	90	13	1	0.3	0.2	0 SNC
		20	1638	45.06	19	32.52	155	23.44	13.24	1.7	1.3	30	4	89	09	5	0.5	0.6	0 DML
		20	2259	39.86	19	24.01	155	30.47	10.10	1.7	1.3	27	5	46	.09	6	0.4	0.9	0 KAO
		21	734	26.22	19	21.83	155	16.64	2.57	1.6	1.2	18	3	112	.10	2	0.5	0.3	0 SBR
		21	1510	42.77	19	56.42	155	35.36	6.87	2.2	1.3	12	2	261	.14	26	1.3	1.8	0 KOH
		21	1858	18.42	20	0.51	155	21.39	12.49	2.4	2.2	34	8	289	.10	13	1.1	0.4	0 KEA
		22	034	23.74	19	10.62	155	40.02	5.07	1.9	1.8	25	3	166	18	9	0.7	2.5	0 ISW
		22	1335	37.67	19	20.08	155	13.00	6.53	1.8	1.3	27	1	70	.12	5	0.5	0.9	0 SFS
		22	1720	21.40	19	24.19	155	17.42	1.52	1.9	1.2	15	5	108	.10	2	0.2	0.4	0 SSC L
		22	2023	21.58	19	18.97	155	13.86	7.50	1.9	1.5	28	3	89	08	4	0.5	0.9	0 SFS
		22	22 9	18.63	19	26.70	155	29.97	9.83	2.2	1.7	36	6	44	.09	6	0.3	0.8	0 KAO
		23	250	28.60	21	20.02	157	24.42	23.35	4.1	3.1	45	7	341	.13	265	3.4	5.9	0 DIS P
		23	748	14.39	19	20.91	155	7.33	6.74	1.6	1.5	27	4	87	.12	4	0.4	0.8	0 SFS
		23	1328	23.34	19	3.43	155	11.08	22.17	1.9	1.7	21	2	236	12	26	1.4	3.6	0 IDI
		23	1725	0.81	19	29.50	154	59.46	41.40	2.3	2.0	51	7	142	.10	8	0.9	0.9	0 LER
		23	19 3	48.98	19	24.01	155	22.56	9.31	1.5	1.1	21	2	47	10	5	0.5	0.9	0 KAO
		24	023	28.04	19	22.98	155	14.83	3.11	1.7	1.4	22	6	65	.08	2	0.3	0.3	0 SBC
		24	3 2	3.11	19	20.61	155	7.04	7.83	0.9	1.4	31	4	95	.08	5	0.4	0.6	0 SFS
		24	1415	5.46	19	23.31	155	11.79	3.34	2.6	1.7	35	6	47	11	3	0.3	0.3	0 SBC
		25	128	40.96	19	59.10	155	23.01	11.81	2.1	1.6	14	4	323	.06	11	1.6	0.4	0 KEA
		25	2 8	5.72	19	15.69	155	29.44	11.23	2.5	2.2	42	4	62	13	2	0.4	0.8	0 ISW
		25	730	6.46	19	57.94	155	22.18	11.02	2.1	1.5	15	5	228	10	9	1.0	0.4	0 KEA
		25	1926	24.71	19	22.93	155	30.68	9.84	2.2	2.0	45	5	37	.09	5	0.3	0.6	0 KAO
		25	2213	23.38	19	54.20	155	54.33	38.19	2.9	1.7	46	4	209	10	25	1.0	1.1	0 IDA
		25	2348	30.07	19	16.04	155	33.33	7.41	1.8	1.7	42	4	59	14	6	0.4	1.0	0 ISW
		26	12 3	11.91	19	20.61	155	7.56	8.44	2.0	1.6	45	7	88	10	5	0.4	0.5	0 SFS
		26	1324	51.09	19	25.36	155	15.77	9.57	1.9	1.1	26	5	135	.09	2	0.7	0.7	0 TNT L
		26	1612	27.17	19	21.76	155	5.11	9.02	3.1	3.3	56	7	81	.10	5	0.4	0.3	0 SFS
		26	1959	26.40	19	13.30	155	23.35	36.59	2.4	2.0	48	2	154	.09	2	0.7	1.3	0 KEA
		27	027	4.90	19	11.36	155	36.66	8.84		1.4	25	3	94	14	7	0.5	1.1	0 ISW
		27	549	53.59	19	26.92	155	25.63	9.60	1.9	1.5	46	6	43	10	3	0.3	0.6	0 KAO
		27	1454	5.94	19	13.37	155	33.09	53.01		1.8	36	2	77	.14	6	1.1	1.8	0 MLS T
		27	15 0	13.20	19	8.62	155	26.77	42.20		1.5	18	2	255	.10	3	1.4	1.9	0 MLS T
		27	1529	48.30	19	13.54	155	6.27	44.96	1.5	1.8	44	5	209	.11	7	1.0	1.1	0 MLS
		27	1659	17.79	19	29.68	155	27.01	6.00	2.6	2.8	44	5	54	10	4	0.3	1.0	0 KAO
		28	2115	34.71	19	18.48	155	13.02	8.39	1.9	1.7	43	4	94	.11	3	0.4	0.6	0 SFS
		28	2221	26.48	19	18.64	155	13.04	8.18	2.0	1.9	47	5	90	.11	3	0.4	0.6	0 SFS
		29	1 1	35.29	19	23.03	155	14.39	3.68	2.5	1.7	41	4	52	.11	2	0.3	0.4	0 SBC

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	MAG	NO	GAP	DIS	MIN	ERH KM	ERZ KM	MAG	ID
1991	NOV	8	023	36.94	19	20	26	155	11	59	8	96			1	3	27			
		8	343	27.99	19	22	10	155	13	39	3	35	1.9		15	2	91			
		8	357	31.21	19	25	53	155	19	59	6	51	2.1	1.1	29	6	76	.12	3	0
		8	1130	39	58	19	20	68	155	6	89	7	84	2.1	2	0	38	7	96	.12
		8	19	4	46.73	19	53	33	155	45	04	11	37	1	3	1	6	36	18	246
		9	147	33.37	19	22	54	155	29	94	8	96	1.8	2	2	50	11	35	.12	4
		9	2	4	59	77	19	22.35	155	30	20	7	63		1	4	33	6	46	.11
		9	328	29	39	19	22.43	155	29.76			9	32	1.5	2	0	43	8	34	.11
		9	1049	11	56	19	19	42	155	11.61			2.37	1.2	1	9	47	9	97	.15
		9	1928	46.34	19	18.65		155	29	61		7.59			1	5	37	5	55	.14
		9	21	8	23.48	19	27	69	155	15	50	10.03	0.8	1	3	21	6	222	.13	2
		10	1713	42	81	19	25	46	155	16	06	14.04	0.8	1	4	20	6	129	.11	3
		10	2147	57.43	19	47	46	155	24.50			25.00	3.4	3.3	56	18	149	11	5	0.5
		10	2213	37.11	19	46.43		155	24	53		19.77	2.3	2	1	55	20	181	.12	5
		10	2334	23	69	20	3	42	156	12.17		50	76	1.7	2.2	56	29	281	.11	45
		11	710	30	07	19	22	15	155	2	81	2	89	1.3	1	8	42	9	128	15
		11	828	25	77	19	25	89	155	15.90		12	64	2.1	1	4	14	4	150	.11
		11	837	45.28	19	42	36	156	4	99		15.23			2	2	20	0	303	10
		11	1110	13	95	19	22.97		155	32.88		7.39			1	3	18	4	66	08
		11	1246	49.27	19	13	47		155	30	69	10	44		1	6	18	3	88	.14
		11	1657	56	13	19	25	57	155	19	71	3	29	2.4	2	6	47	10	53	12
		12	2029	46	95	19	45	47	155	30	39	13	28	1.4	1	8	28	2	176	.13
		12	2146	11	33	19	20	06	155	7	04	7	41	2	0	2.0	52	8	106	.11
		12	2154	16	86	19	24	67	155	16	97	1	96	1.7	1	3	12	2	95	15
		12	2243	8.13	19	55	34		155	12	05	24.17			1	2	13	2	496	20
		13	643	0.47	19	17	12		155	30	47	8	39	1.2	1	8	39	4	48	14
		13	137	2.80	19	24	47		155	16	22	2	68	2.4	1	4	18	2	90	.11
		13	141	0	67	19	24	63	155	17	19	2	07	1.8	1	5	16	3	57	.10
		13	142	59	41	19	24	77	155	17	00	1	84	1.7	1	3	17	2	86	.09
		13	244	58.14	19	19	41		155	11	19	7.35			1.5	35	4	98	.10	5
		13	558	16	41	19	19.77		155	11	96	6	24		1	2	36	7	86	12
		13	857	48	73	19	24	58	155	16	97	1	51	2.5	1	6	28	7	70	.14
		13	1052	2	07	19	21	34	155	13	34	9	75	2	8	3	3	57	14	54
		14	618	51	43	19	22	68	155	30	33	9	71	2.2	1	8	31	3	65	08
		14	13	8	41	06	20	10.45		155	47	29	45	46	1.4	2.0	32	4	298	12
		14	1639	45	89	19	24	47	155	17	81	2	12	2	1	4	16	3	72	12
		14	2123	2.62	19	21	08		155	10	94	8.54			1	8	32	6	79	09
		15	1238	35.27	19	20	23		154	43	52	48	41	3.1	3	0	53	9	282	10
		15	1738	57	25	19	24	68	155	16	98	1	90	1.7	1	2	21	6	85	.13
		16	3	3	25	93	19	22.42		155	4.62		7.82	1	3	1.8	48	6	83	11
		16	3	4	10	37	19	22	41	1.5	1	57	7	26	0.8	1.6	37	4	84	14
		16	338	43	63	19	20	83	155	01.55			8	55	1	2	1.6	45	4	71
		16	511	28.38	19	23.29		155	17	03		2	90	1.7	1	3	29	8	47	.10
		16	16	8	17.40	19	25.33		155	26.21		5	31	2.2	1	6	41	4	35	.11
		17	441	46	54	19	19.05		155	12.99		8.15	1.6	1.7	47	6	84	.09	4	0

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	MAG	NO	GAP	DIS	MIN	ERH KM	ERZ KM	MAG	ID
1991	OCT	29	1326	3.63	19	29	71	155	27.59	5.45	2.1	1.2	31	5	88	09	4	0.3
		29	2343	56.88	19	57	51	155	29.91	38	25	1	1	4	22	3	238	08
		30	256	44	81	19	24	82	155	3.49	3	70	1.7	1.3	21	3	88	07
		30	653	17.83	19	20.21		155	7.93	7	39			1.2	21	2	88	05
		30	1238	43.06	19	25	79	155	19.43	7	93	2	5	1.0	18	5	91	.08
		30	1643	6.60	19	20	06	155	11.73	7.14				1.2	29	5	82	08
		30	19	1	0	79	19	23.46	155	29.88		9.54	2	0	1.6	38	5	45
		30	1925	36	53	19	23	38	155	27.64		10	28	2	0	1	6	36
		31	025	42.43	19	30	61	155	28.64	6	72	1.7	1.2	24	6	70	11	3
		31	2	6	33.73	19	20	44	155	10.80	7.78	2	1	1	7	38	5	99
		31	930	21.16	19	16	20	155	26.85	4	81			1.4	25	6	65	14
		31	1226	46.06	19	22	38	155	8.38	3.10	3	9	1	4	23	1	84	11
		31	2025	13.96	19	22	70	155	14.60	3	36	1.8	1.4	17	4	86	.08	2
	NOV	1	039	8	90	19	22	65	155	14.33	3	42	1.6	1	2	19	5	84
		1	524	10	67	19	24	08	155	18.03	3.57	2	4	1	2	23	5	56
		1	8	0	30	29	19	26	01	155	15.92	12	21	2	1	1.1	13	2
		1	1020	21	97	19	19.67		155	12	39	9.43	4	0	4	3	52	4
		1	2138	20	85	19	20	68	155	6	39	8.57	0	9	1.5	31	4	101
		2	027	20	14	19	19.10		155	13	46	9	66	2	7	2	8	54
		2	1528	12.67	19	19.90		155	12.07	8	21	1	6	1	6	30	3	62
		2	1826	15.20	19	19	37	155	12	28	8	96	2	1	1	9	37	4
		2	2132	39	52	19	9	62	155	35.26	8.55	2	2	1	8	31	5	113
		2	2257	5	17	19	22.31		155	28	88	10.11			1.3	32	5	39
		3	817	47.52	19	21	59	155	6.45	7	02			1	3	21	3	83
		3	9	0	1.58	19	13.28		155	16.26	31.64	2	4	2	6	59	13	176
		3	9	9	49.91	19	14	24	155	32.60	7	94	2	1	1.8	29	3	71
		3	17	4	58	32	19	23.29		155	14	82	3.20	2.2	1	4	16	4
		3	1729	38.11	19	13	10		155	29.03	8	10	2.2	1	8	30	4	86
		3	1953	8.62	19	12	84	155	29	14	9	47	2	1	1	6	28	5
		3	22	8	18	07	19	21	70	155	12	73	3.08	2.0	1	4	24	4
		4	1041	5.95	19	18	59	155	13	51	7	21	1	9	1	6	22	2
		5	4	2	42.46	19	19	44	155	13.50	8	59	2.5	2	4	50	5	68
		5	534	23.94	18	50.43		155	15.33	38	66			1	3	22	4	286
		5	10	6	40.28	19	27	10	155	28.89	10	28	1	7	1.2	33	5	49
		5	1016	34	16	19	23	11	155	14.58	3.44	2.4	1	9	48	7	47	.11
		5	1215	48	00	19	20	58	155	11.74	7.94	3	4	3	7	56	7	73
		6	416	43	81	20	0	86	155	21.89	11.93			1.6	15	3	269	08
		6	520	41	94	18	42.95		154	55	21	37.36		1	7	23	0	286
		6	9	3	3	20	19	20	19	155	19.23	3	84	2.1	1	4	33	8
		6	1130	45	93	19	53.01		155	25.77	31.63	2	1	1.7	32	5	201	.10
		6	1236	21	03	19	23.45		155	2	46	6.49	2		1	4	26	5
		6	13	5	29	25	19	17	02	155	27.41	11.52			1	2	18	4
		6	1340	24	36	19	11.39		155	39.19	7.11			1.6	26	6	107	.18
		6	1545	18.12	19	25.77		155	19.59	6.81	2	2	1.1	24	7	130	.09	4
		7	910	42	01	19	11.94		155	27.91	5.23			1.4	22	1	110	.15

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	FM	NO REMK
1991	NOV	17	537	14 43	19	20.59	155	13.12	7 19	2 1	1 9	53	8	63	12	4	0.3	0 4	0	SF2
		17	553	37 47	19	25.55	155	29.26	10 06	1 0	1 5	40	3	36	.10	6	0.3	0.6	0	KAO
		17	11 0	2.16	19	17.41	155	16.60	7 39		1 3	25	6	166	10	4	0.5	0 7	0	SF1
		17	1110	14 13	19	24 89	155	16.16	2.84	2 3	1 3	21	6	105	.08	1	0.3	0.3	0	SDC
		17	1157	1.06	19	21 85	155	4 76	7 52	1.1	1 7	35	6	78	12	5	0.4	0 7	0	SF5
		17	14 5	9.58	19	24 55	155	16 91	1 64	2 3	1.5	23	7	85	08	1	0.4	0 2	0	KAL
		17	1550	54 00	19	25.97	155	24.47	9 15	2.1	1.6	36	6	49	.11	2	0.4	0 7	0	KAO
		17	16 8	49 15	19	25 56	155	29 41	9 73	1.7	1 3	27	6	35	.09	6	0.4	0.8	0	KAO
		18	927	35.92	19	16.79	155	14 79	7 40	1.3	1 4	29	4	186	.08	2	0.5	0.6	0	SF1
		18	21 6	51.77	19	24.27	155	17.57	1 35	2 2	1.3	13	3	142	.06	2	0.5	0.2	0	SSC L
		19	144	4.73	19	41 37	157	11.78	6 95		2.3	26	3	344	10136		9.1	11.9	0	DIS
		19	1052	56 47	19	25.52	155	29 53	9 20	2 4	2.0	43	7	38	.10	7	0.3	0.8	0	KAO
		19	1749	11 56	19	5 57	155	29.06	27 81	2.6	2 1	46	9	179	10	8	0.7	0.9	0	DIS
		19	1823	49.09	19	33.33	155	37.00	12.34		1 2	18	4	234	14	4	1.3	0.8	0	MLO
		20	717	35.89	20	0 02	155	20.82	9.36	3.2	2 8	43	9	208	10	27	0.5	0.4	0	KEA
		20	822	20 99	19	59 93	155	22.60	12 60	0 0	1 7	13	3	280	12	13	1.8	0 6	0	NEA
		20	10 3	24.21	19	26.20	155	28.98	8 96	2.0	1.3	34	6	44	11	7	0.3	1 0	0	KAO
		20	1033	28.21	19	26.16	155	16.57	13 95	2 3	1 5	13	3	194	.08	2	1.0	0.6	0	DEP L
		20	11 3	18.95	19	12 79	155	37.82	9 25	1.9	1 8	32	4	95	.18	4	0.5	1.2	0	ISW
		20	1116	3.58	18	58 60	155	28.40	34 51		1 6	30	6	239	09	20	1.2	1 1	0	DIS
		20	15 4	9 02	19	20 26	155	12.40	7 68	1 8	1 7	41	5	74	14	5	0.4	0 7	0	SF2
		21	0 3	3.60	19	17 78	155	12.86	7.44	1.6	1 6	30	3	123	10	2	0.5	0 8	0	SF2
		21	657	19.90	19	17.42	155	12.94	7 61	2 1	1 7	30	6	142	09	1	0.5	0 8	0	SF2
		21	8 3	17.69	19	17.36	155	12.98	7 41	1 5	1 7	33	6	144	.09	1	0.5	0.8	0	SF2
		21	849	54.52	19	20.72	155	6.95	8.13	2.3	2 3	43	4	94	.10	5	0.4	0.5	0	SF4
		21	1653	21 49	19	21 76	155	30.10	9 64	2 0	2 0	34	5	43	08	5	0.4	0 8	0	KAO
		21	1653	27.65	19	21.82	155	30.31	8.77	2 6	2 2	31	4	90	.11	5	0.4	0 7	0	KAO
		21	1910	40.50	19	17.41	155	12.95	5.97	1.6	1.3	24	6	142	09	1	0.4	0.8	0	SF2
		21	2036	44.01	19	24.54	155	27.13	9 76	2 1	1.6	39	6	34	.11	4	0.4	0.6	0	KAO
		21	2243	59 00	19	22.10	155	30 24	9 72	3.0	3 0	51	7	34	.09	5	0.3	0 5	0	KAO
		21	2246	44 18	19	22.85	155	27.50	10 65	2 0	1.6	33	3	40	11	1	0.4	0 7	0	KAO
		21	2340	48.15	19	18 75	155	14.01	6 16	1 5	1.4	31	3	94	.09	3	0.4	1.0	0	SF2
		22	556	24.07	19	21.20	155	16.29	2.23	2 3	1 6	39	9	68	11	2	0.2	0 3	0	KOA
		22	752	33.85	19	27.26	155	14.57	31 34	2 4	2 1	53	8	85	.10	4	0.5	0 7	0	DEP
		22	1019	15 71	19	21.12	155	16.32	2 15	1.6	1.4	17	5	72	.06	2	0.3	0.4	0	KOA
		22	1541	4 26	19	20 98	155	29.32	10 22	2 0	1 6	32	5	45	10	4	0.4	0 8	0	KAO
		22	1643	50 46	19	20 72	155	13.09	8 85	2 0	1.8	36	5	63	.09	4	0.4	0 6	0	SF2
		22	2151	49 09	19	17 74	155	12.83	6.80		1 1	16	4	126	08	2	0.6	1 0	0	SF2
		23	110	34.14	18	58.08	155	28.43	55 05	2 2	1.7	16	2	298	13	21	2.2	2.1	0	DIS
		23	216	53.37	19	13 20	155	24.87	35.30		1 6	33	6	118	10	3	0.8	1 0	0	DEP
		23	543	53 50	19	21 13	155	25.50	12 34		1.2	31	6	48	11	4	0.4	0 8	0	KAO
		23	750	34 17	19	9.53	155	40.17	0 93	2.9	3 3	47	7	122	.21	11	0.6	0 6	0	ISW
		24	4 4	40.68	19	17 16	155	27.34	9 92		1.2	22	5	100	09	6	0.4	0.9	0	ISW
		24	438	19.94	19	22.34	155	29.90	9 73	1 7	1 5	36	4	41	09	4	0.3	0.6	0	KAO
		24	512	12.39	19	25 34	155	28.54	10.46	1.7	1 3	28	5	76	10	6	0.4	0 7	0	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	FM	NO REMK
1991	NOV	24	924	12 13	19	23 10	155	14.80	30.11		1 5	41	4	47	.10	3	0 8	1.0	0	DEP
		24	1352	58 90	19	18.05	155	13 11	7.35	1 5	1 9	50	7	101	.09	2	0.4	0.5	0	SF2
		24	1650	56 90	19	56.04	155	57.07	12 66	1.7	2.1	15	0	278	11	32	4 4	1 2	0	KOH
		25	1644	7.12	19	18.84	155	29 90	10 51	1.1	1.6	35	6	56	.09	7	0 3	0 7	0	ISW
		25	1646	47 12	19	18 72	155	29 86	10 78		1 5	28	5	57	.11	7	0 4	0.9	0	ISW
		26	2 0	52 86	19	41 47	155	38 54	35.92	1.3	2 1	40	3	100	11	3	0 7	0.9	0	NEA
		26	234	34 54	19	10.98	155	34.81	11.85		1.5	14	4	100	.12	8	0 8	1.2	0	ISW
		26	3 7	54 40	20	0 06	155	21 53	12 87	0.9	1.7	22	3	266	09	12	1.2	0.4	0	KEA
		26	551	1 62	19	58 09	155	22 51	10.54	0.9	1.6	9	2	214	.08	9	0.8	0.7	0	KEA
		26	1234	54.29	19	14 80	156	20 19	40.76		1 7	17	4	316	08	49	1 8	3.2	0	DIS
		27	419	54 74	19	32 92	155	37 38	9.30	1.8	1.3	27	5	172	.11	4	0.6	0.8	0	MLO
		27	741	2.75	18	51.17	156	45 20	6 71		1.7	19	4	339	10104		8 9	11 6	0	DIS
		27	931	27 20	19	19 51	155	8 83	5.66	1.6	1.5	35	6	82	.11	4	0 4	1 0	0	SF4
		27	1258	52.17	19	15 50	155	22 99	7 84	2.3	2.0	39	4	142	.13	3	0.5	0 9	0	SMR
		27	13 0	19.22	19	15 37	155	22.86	6.44	1.7	1.5	25	3	162	09	3	0.5	1.0	0	SMR
		27	1445	8 59	19	52 55	156	2.57	15.27		1 8	27	5	283	10	30	1.7	1.0	0	NEA
		27	1456	23.13	19	22 85	155	3 16	6.32		1 4	22	3	114	.10	3	0 4	1.0	0	SF5
		27	23 7	46 03	19	24 62	155	37 46	1.11	2 1	1 6	21	6	129	.15	5	0 4	0 6	0	MLO
		28	259	22 70	19	20 10	155	8 20	7.49	1 6	1.6	36	2	83	09	5	0.4	0.7	0	SF4
		28	847	52 82	19	21 76	155	48 57	12.39	2.3	1 7	27	3	109	.11	43	0.5	0.4	0	KOH
		28	1230	2 66	19	24.11	155	25 31	8.89	2 2	1.8	39	5	35	12	2	0 3	0 7	0	KAO
		29	223	15.50	19	58 70	155	22.10	12.01	2.1	1.7	28	6	216	08	10	0 6	0 4	0	KEA
		29	340	57.31	19	21.10	155	6 13	8.05	0.9	1 2	19	3	94	08	5	0 4	0 6	0	SF4
		29	351	52.28	19	49.42	155	2 58	48.34	2 6	2 1	52	10	215	.11	32	0 9	1.2	0	KEA
		29	1753	25 77	19	17.80	155	25.40	6.67		1.4	28	3	80	.11	6	0.4	1.1	0	ISW
		29	18 0	54 78	19	10 47	155	31 73	36.11	2.3	2.2	48	13	110	09	7	0 6	0.9	0	DIS
		29	2212	57 42	19	24.02	155	17 42	0.69	1.9	1 2	14	4	71	08	2	0 2	0.5	0	SSC L
		30	10 7	33.23	19	19.92	155	7.42	0.03		1.9	30	7	102	13	5	0.3	0.4	0	SSF *
		30	1027	36 34	19	20.48	155	5 70	3 79		1 6	28	2	113	.12	5	0 5	1 9	0	SSF
DEC		1	2112	46.95	19	13.18	155	26.91	7 50		1.6	29	6	118	.15	7	0.5	0.9	0	ISW
		1	2222	27.51	19	25 79	155	15 61	9.86		1 2	10	3	201	09	3	2 2	1 1	0	INF L
		2	2 7	33 34	19	20.24	155	4 29	6.76		2.0	32	4	127	.12	2	0 5	0.8	0	SF5
		2	753	40 92	19	22.66	155	13.91	0.08		1 6	8	1	165	12	4	0 4	1.0	0	SER *
		2	2342	11 86	19	20 48	155	12.57	7 62	1 7	1 4	29	5	79	.08	6	0 4	0.8	0	SF2
		3	047	46 74	19	15 04	156	23.01	35.85	2.6	1 9	21	4	298	12	54	1.9	4 4	0	DIS
		4	749	5 42	18	53 81	155	22 05	34.36		1 8	36	6	258	.08	31	1 1	1 6	0	DOL
		4	941	43 69	19	30 75	155	28 98	6.01	2 4	1 9	48	12	89	10	3	0.3	1 0	0	MLO
		4	1717	13 45	19	24.56	155	29 31	9 76	2 1	1 7	38	6	38	07	5	0 3	0 7	0	KAO
		4	1846	2 82	19	19 82	155	28 92	11.30	2 0	1.6	34	5	44	.09	5	0 3	0 6	0	KAO
		4	1916	13.66	19	11.77	155	27.00	7.25		1 4	23	2	133	.18	4	0 7	1.5	0	ISW
		4	20 3	47 82	20	11 97	154	50 43	9 25	2 8	2 4	52	11	275	15	59	3 7	5 3	0	NEA
		5	4 5	53.32	19	23.91	155	26 75	31.01	2 8	2.8	58	14	26	.12	3	0.3	0.5	0	KAO
		5	1240	34.48	20	2 33	155	33.70	11.95	2.9	2.7	42	7	191	.11	22	0 7	0.4	0	KFA F
		5	1928	43.41	19	21 14	155	6 63	7.13		1.4	31	6	90	10	4	0.4	0.6	0	SF4
		6	017	28 19	19	22.65	155	33 15	6.07	1 7	1 2	18	7	68	08	4	0.3	1.6	0	MLO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	NO	GAP	DMIN	RMS	ERH KM	ERZ KM	MD FM	REMK
1991	DEC	6	1028	32.65	20	25.55	156	25.99	15	71	2	3	31	2	325	09	76	5.5 12 4	0	DIS
		6	1045	56.84	19	19.18	155	11.90	6	57	1	5	1.5	33	5	.99	10	5	0.4	0.8	0	SP3
		6	16 5	41.73	19	13.47	155	22.84	36	53		1	5	30	0	163	09	3	1.8	3 5	0	DEP
		6	1924	56.64	19	22.33	155	29.96	9	33	1	7	1	5	37	3	41	10	4	0.4	0 7	0	KAO
		6	2332	21.59	19	56.35	155	41.60	46	63	2	3	1	8	29	1	148	11	9	1.0	1.3	0	KOH
		6	2352	3.54	19	20.86	155	6.20	7	84	1	3	2.0	42	4	59	10	5	0.5	0.6	0	SP4
		7	359	40.18	19	18.27	155	13.34	8	17	2	0	1	9	50	8	86	11	2	0.4	0 5	0	SP2
		7	416	54.14	19	20.05	155	7.83	8	48	2	5	2	6	48	7	92	11	5	0.4	0 5	0	SP4
		7	1056	27.48	19	23.32	155	16.89	5	19	2	1	1	3	17	2	55	.14	0	0.5	0.9	0	INT L
		7	11 6	54.35	19	25.35	155	15.87	1	51		1	1	10	0	102	10	2	0.6	0.5	0	SNC L
		7	11 8	12.02	19	24.55	155	16.25	6	31		0	.9	12	2	141	14	1	1.0	1.2	0	INT L
		7	1953	45.06	19	24.41	155	16.46	8	70		0	.9	17	2	128	.09	1	0.7	0.9	0	INT L
		7	2019	9.25	19	12.40	156	23.22	27	84		1	5	9	1	321	.13	55	3.5	6.9	0	DIS
		8	424	17.13	19	26.85	154	55.67	4	74	1	0	1.5	60	5	143	.12	6	0.6	2.8	0	SLE
		8	1953	13.56	19	21.12	155	6.75	6	63	1	6	1.6	38	4	89	11	4	0.4	0.7	0	SP4
		8	2116	11.13	20	44.35	154	38.52	6	96		1	9	9	1	340	14	136	10.6 13.6	0	DIS
		9	420	4.43	19	46.85	155	22.25	32	06	1	7	1	3	18	3	175	10	9	1.0	2 1	0	KEA
		9	658	14.38	18	52.67	155	27.13	33	38	3	3	3.0	58	12	254	10	25	0.8	1.4	0	DIS
		9	1314	30.48	18	50.11	155	50.94	46	42	5	2	4.6	50	3	299	10	25	1.8	0 6	0	DIS
		9	1324	21.99	19	19.60	155	13.04	7	85	1	7	1.5	34	3	72	12	5	0.5	0 8	0	SP2
		10	134	16.21	20	7.93	155	37.28	7	76	3	3	3	0	44	3	220	09	17	1.0	0.7	0	KOH
		10	854	36.16	19	20.58	155	4.45	6	94	1	7	1	7	30	1	111	10	3	0.5	1 0	0	SP5
		10	1315	47.06	19	11.03	155	28.89	9	00	2	4	2	3	41	7	75	15	3	0.5	0 7	0	ISW
		10	1447	49.60	19	18.80	155	26.11	30	36	2	2	2	1	40	7	58	12	6	0.3	0 7	0	ISW
		10	1451	47.51	19	21.33	155	18.95	3	47	1	4	1	2	21	4	81	07	4	0.3	0 7	0	SAR
		11	019	49.96	19	15.93	155	29.13	13	52	2	7	2	7	51	11	61	11	2	0.4	0 4	0	DIS
		11	038	48.93	19	15.78	155	29.06	13	32	2	4	1	6	37	6	63	11	2	0.4	0 7	0	DIS
		11	1 7	50.60	19	24.60	155	17.07	1	53	1	5	1	2	9	1	95	.10	1	0.5	0 3	0	SNC
		11	2 9	29.12	19	25.02	155	19.52	6	87	1	7	1	0	26	6	101	.09	2	0.4	0 8	0	KAO
		11	9 2	33.22	19	19.60	155	12.24	7	17	1	4	1	5	34	3	86	10	5	0.4	0 9	0	SP3
		11	9 2	36.92	19	19.26	155	12.24	6	22	1	4	1	3	17	3	93	07	5	0.4	1 2	0	SP3
		11	1713	32.72	19	25.44	155	29.44	9	88	1	9	1	4	33	7	39	06	6	0.3	0 7	0	KAO
		11	1916	59.93	19	10.75	155	38.92	10	89		1	5	17	2	108	11	8	0.6	1 0	0	ISW
		12	037	4.62	19	27.12	155	14.20	33	77	3	8	3	8	58	11	59	11	4	0.5	0 6	0	DEP
		12	3 2	32.57	19	19.07	155	9.83	8	09	0	.9	1	4	27	3	100	.08	5	0.4	0 8	0	SP3
		12	1717	54.66	20	0.31	155	21.46	6	63	1	.5	2	0	25	6	142	.11	35	0.8	1 2	0	KEA
		12	2020	11.91	19	35.49	156	27.61	7	38		1	.7	18	4	301	.13	66	7.9 10	5	0	DTS
		13	431	47.16	19	19.48	155	7.02	7	73	2	1	2	0	46	10	120	10	4	0.4	0.6	0	SP4
		13	443	25.65	19	20.31	155	6.85	7	75	0	.8	1	3	24	3	104	06	6	0.5	0 8	0	SP4
		13	1910	42.33	19	22.21	155	30.01	5	60		1	2	21	5	56	06	4	0.4	0 7	0	KAO
		13	1938	32.40	19	19.62	155	6.86	8	65	1	6	1	7	35	5	100	08	5	0.4	0.6	0	SP4
		14	0 1	42.92	19	19.89	155	11.86	7	80	1	4	1	4	32	5	84	.07	5	0.4	0 7	0	SP3
		14	009	26.58	19	23.87	155	15.58	3	08	2	.1	1	.5	21	7	106	07	2	0.3	0 3	0	SSC
		14	950	34.07	19	24.44	155	17.61	45	38	1	7	1	1	14	3	86	09	1	2.3	1 2	0	DEP
		14	1035	22.02	19	28.54	155	51.21	7	87	2	1	1	.6	27	5	128	18	7	0.7	0 9	0	KOH

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	NO	GAP	DMIN	RMS	ERH KM	ERZ KM	MD FM	REMK
1991	DEC	14	2222	15.76	19	25.23	155	16.90	10	43	1	3	1	0	15	5	158	.07	1	2 1	0.9	0	DEP L
		14	1533	8.63	19	21.41	155	30.29	10	54		1	3	27	6	47	.07	5	0.4	0.7	0	KAO
		14	1547	26.48	19	20.28	155	11.07	7	12	1	9	1	7	39	10	81	10	4	0 4	0 6	0	SP3
		14	1831	54.72	19	20.06	155	6.56	6	03	1	.6	1	6	34	5	114	08	6	0 4	0.7	0	SP4
		14	1855	47.42	19	25.17	155	16.92	14	46	1	9	1	0	12	1	156	.05	1	1.1	1.8	0	DEP L
		14	2147	47.13	19	24.86	155	17.11	11	48	1	7	1	0	13	3	102	05	1	1 4	0 9	0	DEP L
		14	2215	58.35	19	24.20	155	16.48	16	10	1	9	1	.1	14	3	100	15	3	1.5	1 3	0	DEP L
		15	240	37.47	19	21.22	155	5.67	9	36	0	8	1	5	15	2	159	.05	5	0.9	1.2	0	SP4
		15	522	54.82	19	25.64	155	19.16	6	78	2	5	1	.6	30	7	108	10	3	0 4	0.8	0	KAO
		15	551	52.77	19	24.99	155	16.71	12	77	1	6	1	0	15	2	152	07	1	0 9	1 0	0	INT L
		15	633	53.79	19	25.43	155	17.41	14	06	1	8	1	1	16	5	159	12	0	1.6	0 9	0	DEP L
		15	759	44.48	19	25.19	155	19.32	17	27	1	8	1	1	14	5	282	.10	3	2.4	0.9	0	DML L
		15	852	39.92	19	25.72	155	12.56	17	73	1	7	1	0	13	3	296	07	8	2.9	1.1	0	DEP L
		15	924	48.72	19	25.26	155	16.12	16	26	1	8	1	1	17	5	173	09	2	1 5	0.9	0	DEP L
		15	1039	14.13	19	21.61	155	17.47	9	88	1	5	0	9	19	6	68	17	1	1 1	0.9	0	INT L
		15	11 1	44.85	19	23.79	155	17.37	9	78	1	7	1	1	20	4	55	14	1	0.6	1 0	0	INT L
		15	1129	28.11	19	23.80	155	18.79	6	82	1	1	0	8	15	4	113	13	3	0 7	1.2	0	INT L
		15	1212	53.68	19	24.40	155	16.61	10	91	1	.8	1	0	18	4	116	09	1	1.0	0 8	0	INT L
		15	15 6	31.96	19	24.02	155	17.05	12	14	1	6	0	9	16	4	72	.10	1	1 5	1.0	0	INT L
		15	1525	51.62	19	25.37	155	15.95	13	88	1	.4	0	9	18	4	171	11	2	1 4	0 8	0	DEP L
		15	16 0	18.96	19	25.15	155	16.80	9	21	1	4	0	8	17	4	164	12	1	1.2	1.0	0	INT L
		15	1648	47.92	19	25.99	155	15.68	12	10	1	6	0	9	14	3	206	.09	3	1.8	1.1	0	INT L
		15	1733	57.86	19	24.89	155	16.72	12	40	1	5	1	0	18	3	146	05	0	0 8	0 8	0	INT L
		15	19 4	56.22	19	24.90	155	17.45	9	85	1	2	0	8	16	2	105	07	1	0 9	1.0	0	INT L
		15	19 5	45.41	19	29.00	155	47.32	8	87	2	4	1	5	33	3	75	.14	4	0.5	0.7	0	KON
		15	1957	33.57	19	24.86	155	15.66	10	47	1	5	0	8	17	3	157	10	2	1 0	0 8	0	INT L
		15	2018	42.07	19	24.48	155	16.32	11	46	1	6	0	.8	21	6	135	.10	1	1 0	0 6	0	INT L
		15	2035	50.39	19	25.10	155	17.37	9	20	1	5	0	8	19	3	133	11	1	0 8	1 0	0	INT L
		15	22 5	26.27	19	23.21	155	16.66	9	43	1	5	0	8	17	5	74	.10	0	0 8	1 2	0	INT L
		15	2241	15.11	19	23.88	155	16.96	8	58	1	.5	0	.8	19	6	74	14	1	1 0	0 6	0	INT L
		15	2343	22.32	19	24.57	155	17.33	8	09	1	4	0	9	16	4	71	07	1	0 8	0 6	0	INT L
		16	118	12.34	19	19.80	155	24.76	10	84	2	0	1	6	43	5	65	11	3	0 4	0 5	0	SAR
		16	246	49.01	19	53.73	155	59.24	41	43		1	4	16	2	286	.10	28	7.2	2.1	0	HVA
		16	341	58.54	19	23.66	155	18.00	9	63	1	.2	0	7	17	3	61	.13	2	0.8	1.5	0	INT L
		16	8 6	55.74	19	16.61	155	14.31	7	25		1	2	21	2	184	06	2	0 7	0 7	0	SP2
		16	11 4	56.76	19	26.17	155	30.75	10	10	2	6	2	0	42	8	58	11	8	0.3	0 7	0	KAO
		16	14 3	0.11	19	17.22	155	27.96	10	07	2	0	1	7	33	4	53	.13	6	0 4	0.8	0	ISW
		16	2041	58.03	19	19.13	155	13.96	5	06	1	9	1	.8	38	4	77	.12	4	0 4	1 2	0	SP2
		17	029	14.65	19	24.43	155	17.03	2	33	1	7	1	0	10	3	139	07	1	1.3	0 6	0	SSC L
		17	817	51.77	19	19.54	155	7.56	6	70		1	.3	19	4	105	07	4	0 4	0.9	0	SP4
		17	915	15.63	19	20.04	155	3.01	7	11	1	7	1	9	28	5	111	09	0	0 4	0 7	0	SAR
		17	17 7	42.00	19	20.28	155	7.57	9	20	2	.2	2	0	38	7	94	08	5	0 4	0 6	0	SP4
		17	1957	51.07	19	12.55	155	19.69	10	67		1	3	19	2	197	10	8	2 0	1 3	0	DEP L
		17	2053	13.85	19	20.47	155	12.81	7	29	1	7	1	5	38	4	67	.11	4	0 4	0 7	0	SP2
		18	425	5.93	19	19.60	155	11.78	6	58	1	.6	1	6	36	6	91	11	6	0 4	0 9	0	SP3

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	MAG	NO	GAP	RMS SEC	MIN DIS	ERH KM	ERZ KM	MD FM	REMK
1991	DEC	18	1038	15 02	19	22 90	155	14.48	3	21	1 2 14	4	123	04	2	0.4	0.5	0 SBC
		18	1329	4 41	19	23.31	155	14.94	2.97	1 9	1 7 19	7	105	.07	2	0.3	0.4	0 SBC
		18	2245	40 36	19	22 76	155	14.39	3.31	1.4	1 3 13	3	128	03	2	0 4	0 5	0 SBC
		19	0 7	21.17	19	23.32	155	15.05	3.63	3 1	3 7 29	8	105	08	2	0.3	0.3	0 SBC
		19	0 8	4 16	19	23.23	155	15.08	2.60	2 6	2 5 18	5	107	07	2	0.3	0 3	0 SBC
		19	254	12 78	18	56 48	155	16.67	16	20	1 4 13	1	297	40	31	2.8	13 1	0 LOI *
		19	3	2 25.00	18	48 87	155	13.33	10.98		1 8 15	4	320	08	46	1.9	1.2	0 LOI
		19	3	3 28.45	18	51 45	155	14.60	8	22	1 8 15	5	307	10	41	1.1	1.3	0 LOI
		19	3	7 56	52	18 49.94	155	13.50	11	71 2.2	1 9 14	2	313	09	44	2.8	1 7	0 LOI
		19	310	45.06	18	49.36	155	12.93	11	11	1.9 17	2	291	09	46	2.2	1 5	0 LOI
		19	312	51 98	18	47 50	155	13.35	9	72	1 8 12	2	321	09	48	2.6	1 2	0 LOI
		19	313	16 80	18	49.52	155	14.02	11	44 2.2	2 0 9	2	324	09	44	2.7	1 4	0 LOI
		19	314	6.73	18	49 86	155	13.20	11.52	2 2	2 0 16	1	310	10	45	2.4	1 3	0 LOI
		19	315	58 07	18	52.49	155	14 68	12 48	2.2	2.1 18	3	305	10	39	1.6	1 3	0 LOI
		19	318	0.12	18	49 38	155	13.35	11.24	2 5	2 2 18	2	310	07	45	1.8	1.1	0 LOI
		19	327	14.19	18	51 05	155	15.21	12.59	2.8	2.3 15	2	311	11	41	2.6	1 6	0 LOI
		19	328	48.09	19	4 24	155	19.09	12 38	2 4	2 0 14	0	255	.25	18	3.9	1.9	0 LOI
		19	335	18.82	18	52 50	155	13.97	12.16	2 5	2.2 18	3	306	08	40	2.0	1.1	0 LOI
		19	339	48.88	18	55 94	155	16.46	14 00	3.0 3	2 22	0	278	.09	32	4.5	1.6	0 LOI
		19	345	59.20	18	52 41	155	14.70	13 88	3 0	3 1 32	12	295	11	39	3.4	5.1	0 LOI
		19	348	41 68	19	23 24	155	14.89	2.53	1 6	1 6 17	7	107	06	2	0.3	0.4	0 SBC
		19	4	0 6.96	18	52.21	155	13.98	12 86	2 7	2 4 21	3	307	07	40	2.1	1.8	0 LOI
		19	4	2 17 39	19	0.13	155	12.45	6	96 2 5	2 2 1 15	1	294	13	32	3.9	12.2	0 LOI *
		19	411	3.30	19	0 26	155	17 05	33	47 2.6	2 0 15	2	287	.13	26	4.6	3.0	0 LOI
		19	415	35.72	18	56.17	155	15.28	14	42 3 1	3 4 28	7	277	.10	33	1.1	1 5	0 LOI
		19	424	2 75	18	58 48	155	16.70	14.75	2 1	2 0 19	3	297	13	28	1.9	1.3	0 LOI
		19	441	14 95	18	48 98	155	22.92	39	12 2 3	1 6 12	0	311	.14	39	10.8	8 7	0 LOI *
		19	447	24.12	19	4.03	155	15.19	14.81	1 9	1 6 14	2	280	.10	24	2.3	1 3	0 LOI
		19	451	24 58	19	0 51	155	14.97	7.04		1 6 14	1	291	11	28	3.5	11.3	0 LOI *
		19	458	37.45	18	59.66	155	14.39	16.41	2 6	2 2 16	1	291	.06	30	3.3	12.9	0 LOI *
		19	5 6	2 59	18	53 09	155	12.52	13 15	3.0 3	1 23	4	288	.12	41	2.9	3 8	0 LOI
		19	515	42 70	18	59 03	155	14.16	6	97	1 7 14	3	295	.10	31	1.7	11 1	0 LOI *
		19	517	42 60	18	58 58	155	13.60	6	95 2.1	1 9 16	3	297	.11	32	1.8	11.6	0 LOI *
		19	520	36 68	18	58 49	155	12.85	32	20 2.6	2 0 16	2	295	.09	33	3.2	3.7	0 LOI
		19	524	25 79	18	54.07	155	12.85	12.65	3.3 3	4 30	10	282	11	39	1.2	1.3	0 LOI
		19	526	39 24	19	1 63	155	15.27	14 61	3 7	4.1 27	4	262	10	26	1.4	1 2	0 LOI
		19	538	1.27	18	53.35	155	11.43	12 47	3 1	3 2 30	11	300	10	42	1.3	1.5	0 LOI
		19	541	27 34	19	3.66	155	12.95	22	86 2.7	2 4 8	0	283	06	28	4.0	7.8	0 LOI
		19	542	31.60	19	0.48	155	13.73	14.12	3 0	3 5 24	3	266	.09	30	1.4	1.0	0 LOI
		19	6 3	55 68	18	55.34	155	13.27	6	55 2 9	2 7 27	8	280	14	46	0.8	1 6	0 LOI
		19	6 9	2 81	18	59 19	155	12.11	6	84 2.9	2.3 13	3	296	.15	34	2.9	15 4	0 LOI *
		19	612	35 71	18	53.58	155	11.14	18.97	2.7 2	2 7 17	3	305	10	42	2.1	11 7	0 LOI *
		19	617	55.33	18	56 02	155	15.87	20.18	2 6	2.1 18	2	299	10	33	2.3	7 3	0 LOI
		19	620	54.92	18	56.46	155	13.95	1.69	3 7	4 0 27	7	277	13	34	1.3	1.0	0 LOI
		19	643	26.72	18	58 87	155	10.21	48.99	3 4	3 3 28	7	291	12	37	2.0	2.4	0 LOI

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	MAG	NO	GAP	RMS SEC	MIN DIS	ERH KM	ERZ KM	MD FM	REMK
1991	DEC	19	658	33.16	18	58 85	155	12.21	6	97 2 5	2.1 16	2	296	.13	34	2 4	11.9	0 LOI *
		19	7 6	0 03	19	1 52	155	14 28	6	93 2.3	1 7 13	2	291	.12	28	2.3	13 5	0 LOI *
		19	7 8	23 62	18	59 78	155	11 38	49	54 2.9	2.4 15	1	294	.15	34	3.6	6.4	0 LOI
		19	711	44 44	18	52 86	155	14.52	12	49 3.0	3 2 31	11	284	.11	39	1.0	1.0	0 LOI
		19	715	57 31	19	0.85	155	13 52	14.63	4 0	4.3 30	8	265	.11	30	1.4	1.6	0 LOI
		19	727	35 64	18	56.89	155	12 50	18	59 2 1	1 8 12	1	299	11	36	3.1	11.6	0 LOI *
		19	731	50.24	19	0.06	155	15.32	12	68 2 3	1 8 12	0	289	.22	28	6.6	1.5	0 LOI
		19	736	41 16	19	23 33	155	15.22	4	51 1.4	0 6 9	2	106	.06	2	0 6	0 9	0 SBC
		19	739	19 39	19	1 56	155	15 09	16	67 2.3	1 8 13	1	286	.09	27	3.2	13.8	0 LOI *
		19	741	48 26	18	54.33	155	8 23	27	19 2.8	2.3 15	3	310	.19	41	2.4	11.0	0 LOI
		19	754	0 99	18	42 60	155	10 26	12	01 2.6	2 1 17	2	320	.13	64	8.2	12.1	0 LOI *
		19	756	43 59	18	59.34	155	13 21	17	59 2.4	1 5 16	1	282	.11	32	3.0	11.9	0 LOI *
		19	8 0	12 12	18	51 00	155	12.21	11.68	2.5 2	0 25	6	308	.17	44	1 8	1.5	0 LOI
		19	8 5	8.23	18	57 65	155	12 18	6.00	2.6 1	8 20	3	286	.13	35	1 4	3.9	0 LOI
		19	8 6	55 50	18	57 85	155	13.28	16.89	2.4 1	8 20	0	285	.07	33	4.6	13.5	0 LOI *
		19	811	49.41	19	0 97	155	12 62	33	81 3.0	2 2 27	5	275	20	30	2 4	3.0	0 LOI
		19	813	25.80	18	56 08	155	13 43	8.58	3.6 3.0	38	4	274	.13	39	1 4	0 7	0 LOI
		19	846	9.47	19	3 82	155	13 16	9	27 2 5	2.0 19	0	262	08	24	2 1	5 9	0 LOI
		19	9 3	46 92	18	57 36	155	12 70	16.79	2.4 1	9 20	0	286	.10	35	5 0	14.6	0 LOI *
		19	9 7	11 57	18	46 94	155	13 31	8	20 2.1	2 2 26	2	306	.12	49	2 3	1.2	0 LOI
		19	927	33 51	18	55 03	155	9 59	12.22	2 4	2 1 44	16	294	.12	41	0 8	0 6	0 LOI
		19	1017	30 17	18	57 58	155	10 72	7.02		1.9 21	2	289	.13	36	2.7	1.8	0 LOI
		19	1043	54 07	19	0 35	155	18 58	14.83		1 2 11	1	294	.13	23	3 7	0.9	0 LOI
		19	1119	48.28	19	1 38	155	12 58	7	91	1 6 17	1	274	11	29	2 9	3 9	0 LOI
		19	1151	25 19	19	17 66	155	18 18	30	02 2.0	1 5 13	1	131	.10	1	2 2	4.7	0 DEF
		19	12 3	39.04	19	20.18	155	7 80	6.38	1.7 1	7 52	17	90	.16	5	0.5	0 7	0 SPA
		19	1211	26 43	18	56 82	155	15 31	11.98		1.6 11	0	313	.10	32	9 4	1.9	0 LOI
		19	1257	40 20	18	51.09	155	9 64	8.20	2.2 2	0 13	0	318	15	47	11.9	4 1	0 LOI *
		19	1320	42 08	18	54 79	155	10 62	11	64	1 8 22	1	293	11	41	1 8	0 9	0 LOI
		19	1349	47 13	19	1.16	155	14 16	14	03	1 4 9	1	300	.14	28	3 8	1.1	0 LOI
		19	1612	35 92	18	58 78	155	12 79	16	43	1.2 14	2	308	11	33	2.9	14.8	0 LOI *
		19	1615	48 90	18	56 52	155	13 45	13.15		1.4 17	0	287	.12	35	5 2	1.2	0 LOI
		19	1621	7.46	18	55 04	155	15 33	16.01	2.6 2	0 27	3	289	.11	35	3 1	11 3	0 LOI *
		19	1637	6 24	18	51 17	155	7.19	9	52	1 3 17	0	320	08	49	11 1	3 3	0 LOI *
		19	1644	46 43	18	59.95	155	21.08	40	18 2 5	1 7 15	2	302	08	21	3 4	2.1	0 LOI
		19	17 3	57 95	18	53 81	155	11 16	12	22 2 8	2 4 35	3	304	12	41	2 4	1 4	0 LOI
		19	1735	6 14	19	0 03	155	13 20	16.90		1 2 9	1	316	.09	31	3.4	14.1	0 LOI *
		19	1747	57.10	18	55.61	155	12.31	12.28	3 7	3.5 35	10	286	.12	38	1 1	0 5	0 LOI
		19	1843	39.21	19	55 37	155	9 91	11.81		1 5 15	2	316	.08	41	2 2	0 9	0 LOI
		19	21 2	41 41	18	39.55	155	7 62	7	04 2 4	2 1 13	4	336	14	66	9 7	12.6	0 DIS *
		19	2126	31 97	18	50.64	155	11 17	10.50		1 7 15	5	315	09	46	1 8	0.7	0 LOI
		19	2325	34.79	18	59 52	155	14 79	6.81	2 0	1 9 21	5	290	.11	29	0.8	2 4	0 LOI
		19	2248	52 72	18	48.13	155	10 78	12	63	1 6 12	3	329	09	50	8 0	11.5	0 LOI *
		20	220	6 09	18	45 42	155	10 73	30.00	2 9	2 0 20	0	319	.11	54	10 9	5 8	0 LOI *
		20	238	29 40	19	24 33	155	17 48	1.53	2 1	1 5 17	6	83	.10	1	0 3	0 2	0 SBC

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	MAG	NO	GAP	DIS	RMS	MIN DIS KM	ERH KM	ERZ KM	MD	
1991	DEC	20	326	46.37	19	3	155	11.98	12.73	2.5	2.3	29	0	279	13	.16	3.1	0.5	0.7	0	HOI
		20	352	18.78	19	24.68	155	16.29	3.19	1.6	1.3	12	5	140	13	1	0.6	0.5	0	SUC	L
		20	357	0.03	18	57.56	155	8.23	12.81	2.6	2.2	29	2	303	.09	.07	1.8	0.8	0	HOI	
		20	4 5	49.80	18	56.76	155	8.90	11.94		1.6	21	1	305	.09	.08	2.8	1.0	0	HOI	
		20	4 7	10.60	19	3.57	155	11.86	13.84		1.6	29	3	277	11	.25	2.2	0.5	0	HOI	
		20	4 9	14.35	18	59.46	155	9.38	10.23	2.1	1.7	38	6	296	11	.33	0.9	15.4	0	HOI	*
		20	414	40.45	19	3.08	155	12.28	14.65	2.6	2.2	37	1	255	13	.26	1.8	0.7	0	HOI	
		20	426	58.08	18	57.71	155	11.49	8.84	3.1	3.0	46	8	274	13	.36	0.7	0.7	0	HOI	
		20	445	32.52	18	59.26	155	7.58	13.12	2.7	2.4	34	4	293	12	.33	1.7	0.6	0	HOI	
		20	5 9	48.64	19	23.86	155	26.17	5.06	1.4	1.2	24	2	47	10	.3	0.4	0.9	0	KAO	
		20	516	36.29	19	0.35	155	10.18	16.79	2.1	2.0	25	0	288	.12	.31	5.8	15.2	0	HOI	*
		20	543	49.36	19	2.97	155	11.88	14.59	2.7	2.5	35	0	256	12	.26	1.9	0.7	0	HOI	
		20	6 7	43.89	19	10.30	155	17.04	15.04		1.4	8	0	254	.04	.14	5.3	1.0	0	PEP	
		20	730	45.97	18	57.13	155	9.60	11.75	2.9	3.2	48	9	276	14	.37	1.2	0.6	0	HOI	
		20	819	43.52	19	19.76	155	12.55	5.48	0.9	1.3	36	10	79	12	.5	0.4	1.1	0	SP2	
		20	927	44.54	19	5.03	155	29.50	36.95	2.7	2.1	41	6	222	.10	.16	0.8	1.3	0	KAO	
		20	1233	12.38	18	55.94	155	11.13	12.54		1.9	27	3	301	13	.39	1.9	0.7	0	HOI	
		20	1344	55.03	18	56.37	155	8.68	16.13		1.7	17	2	305	.09	.39	3.3	13.5	0	HOI	*
		20	15 7	3.75	18	59.43	155	10.18	10.55	2.6	2.5	45	5	270	.14	.33	1.3	0.8	0	HOI	
		20	1548	34.74	19	0.20	155	10.38	13.95	2.3	2.1	39	5	267	12	.32	1.4	0.7	0	HOI	
		20	1550	51.90	18	59.02	155	9.40	17.07		1.7	19	6	297	.10	.34	6.1	14.1	0	HOI	*
		20	16 1	51.57	18	57.28	155	12.45	12.17	2.7	2.3	30	6	294	.13	.35	1.5	0.6	0	HOI	
		20	1718	52.73	18	59.40	155	13.32	14.19	2.1	1.9	29	3	289	.10	.32	1.9	0.8	0	HOI	
		20	1852	12.26	19	0.64	155	15.44	26.53		1.6	16	2	295	13	.27	2.9	3.4	0	HOI	
		20	1941	49.19	19	20.64	155	10.53	7.56	1.6	1.6	42	8	85	.09	.3	0.4	0.5	0	SP3	
		20	2032	12.17	19	58.47	155	12.16	13.36		1.8	36	2	291	11	.34	2.0	0.6	0	HOI	
		21	415	14.47	19	22.99	155	15.64	8.89	2.2	0.9	8	3	236	.10	.1	6.7	2.3	0	INT	L
		21	425	7.84	19	25.95	155	17.16	2.18	0.8	0.9	9	1	178	.06	.1	0.7	0.3	0	SUC	L
		21	1210	43.79	19	21.01	155	30.24	9.59	2.6	2.5	51	12	49	.08	.5	0.3	0.6	0	KAO	
		21	16 1	1.16	19	24.37	155	17.68	1.47	1.8	1.3	26	5	46	.10	.2	0.2	0.2	0	SUC	L
		21	16 9	25.25	19	24.11	155	17.47	1.26	1.7	1.3	23	7	56	.11	.2	0.2	0.5	0	SUC	L
		21	1726	1.10	18	51.39	155	8.66	10.63	2.7	2.5	45	13	311	.10	.48	1.2	0.7	0	HOI	
		21	1828	28.99	19	23.78	155	15.63	2.97	2.0	1.4	23	8	301	.07	.2	0.3	0.5	0	SUC	
		21	2320	55.07	19	24.25	155	17.55	1.56	1.4	1.2	17	5	80	.06	.2	0.3	0.3	0	SUC	L
		22	130	34.24	19	26.63	154	51.44	10.15	2.0	2.0	40	11	225	.14	.2	0.8	0.4	0	LSR	
		22	613	51.72	19	23.29	155	14.57	3.61	1.8	1.4	27	8	80	.08	.3	0.3	0.5	0	SUC	
		22	732	45.69	19	13.46	155	23.02	33.83	2.4	2.0	59	19	.56	.10	.2	0.6	0.8	0	DEP	P
		22	1040	31.80	18	51.21	155	13.75	11.45	2.6	2.8	42	7	275	.10	.42	1.1	1.0	0	HOI	
		22	12 7	33.37	19	20.45	155	19.43	2.94	1.2	1.1	11	0	75	.06	.4	0.4	0.9	0	SUC	
		22	15.4	53.13	18	55.60	155	11.89	12.97		1.6	16	3	290	.07	.38	1.3	0.9	0	HOI	
		22	1721	44.22	19	19.72	155	7.87	8.07	1.6	1.6	32	3	125	.08	.4	0.4	0.5	0	LSR	
		22	2121	55.60	19	11.83	155	28.39	7.33	2.1	1.7	28	2	312	.18	.4	0.5	1.2	0	LSW	
		22	2123	18.73	19	11.82	155	28.22	6.78	2.3	2.0	31	3	310	.18	.4	0.5	1.2	0	LSW	
		23	224	12.66	19	33.65	156	8.05	33.93	3.1	3.1	46	5	251	.11	.24	1.1	1.3	0	MUN	
		23	5 6	28.14	19	21.98	155	29.98	9.45	1.7	1.2	28	5	45	.10	.4	0.4	0.7	0	KAO	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	MAG	NO	GAP	DIS	RMS	MIN DIS KM	ERH KM	ERZ KM	MD	
1991	DEC	23	637	26.41	19	23.16	155	15.60	3.12	2.2	1.5	21	6	70	.08	.2	0.3	0.3	0	SUC	
		23	717	49.70	20	3.00	155	17.95	41.47	1.6	1.7	24	4	249	.12	.18	1.2	0.5	0	KEA	
		23	943	6.84	19	4.85	155	50.54	10.00	2.0	1.6	29	3	224	.14	.2	1.2	0.4	0	HER	
		23	1050	42.29	19	22.04	155	30.10	9.34	1.7	1.3	28	6	50	.07	.4	0.3	0.6	0	KAO	
		23	12 1	33.59	19	23.01	155	2.96	6.21	1.7	1.5	25	3	121	.13	.3	0.5	1.2	0	SP5	
		23	1934	22.36	19	19.62	155	11.85	9.17	2.2	2.1	46	8	90	.11	.6	0.4	0.5	0	SUC	
		24	210	32.15	19	30.37	155	26.40	2.20	1.8	1.0	18	7	123	.11	.4	0.3	0.6	0	MLO	
		24	348	4.10	18	15.54	155	13.46	24.65		1.5	19	5	318	.11	.51	2.4	9.3	0	HOI	
		24	1032	51.44	18	59.50	155	12.00	15.18	2.1	1.5	17	3	282	.06	.33	1.4	4.9	0	HOI	
		24	2226	2.84	19	25.16	155	20.80	6.66	1.2	1.0	25	7	81	.08	.6	0.4	1.0	0	KAO	
		25	6 7	33.96	19	33.15	155	38.21	9.10	2.1	2.0	44	9	105	.11	.8	0.4	0.7	0	MLO	
		25	1238	22.13	19	24.95	155	19.83	5.99	1.5	1.0	20	3	98	.08	.3	0.5	1.3	0	KAO	
		25	21 7	35.37	19	19.06	155	18.74	4.24	1.3	1.1	18	5	76	.06	.2	0.4	0.6	0	SMR	
		26	253	33.36	19	20.17	155	8.68	7.95	1.9	1.8	37	7	74	.07	.4	0.3	0.6	0	SP4	
		26	315	42.51	19	27.04	155	28.39	9.55	1.6	1.2	26	5	53	.08	.7	0.4	0.9	0	KAO	
		26	457	0.08	19	18.77	155	13.77	5.65	3.4	3.6	53	5	87	.11	.3	0.4	0.4	0	SUC	
		26	6 7	6.51	19	23.03	155	14.69	3.21	1.7	1.6	15	5	117	.07	.2	0.4	0.5	0	SUC	
		26	1020	3.57	19	23.93	155	15.75	2.41	1.7	1.3	6	4	359	.12	.3	16.1	1.5	0	SUC	L
		26	1622	53.94	19	10.97	155	32.81	5.41		1.7	20	3	175	.21	.9	0.9	3.5	0	LSW	
		27	628	49.16	19	20.98	155	6.03	8.50	2.1	2.0	39	6	97	.09	.5	0.4	0.5	0	SP4	
		27	1137	45.42	19	25.31	155	25.37	5.60	1.9	1.4	21	6	101	.13	.5	0.4	1.5	0	KAO	
		27	12 5	15.13	19	19.00	155	13.32	8.34	1.9	2.1	47	2	77	.13	.4	0.5	0.7	0	SP2	
		27	18 4	54.01	19	23.25	155	14.67	0.00	2.7	2.3	45	8	47	.13	.3	0.2	0.4	0	SUC	*
		27	2045	14.57	19	22.12	155	30.13	9.15	1.7	1.5	38	2	44	.10	.4	0.3	0.6	0	KAO	
		28	453	44.92	19	16.16	155	46.91	10.51		1.4	25	3	158	.12	.9	0.6	0.8	0	MUN	
		28	1121	56.29	18	59.28	155	15.07	16.59	2.2	2.0	15	3	317	.08	.42	10.0	14.2	0	HOI	*
		28	1531	30.43	19	23.83	155	26.94	10.42	2.6	2.9	54	7	27	.12	.3	0.3	0.4	0	KAO	
		28	1629	48.68	19	24.48	155	16.72	6.98	1.9	1.3	25	4	115	.09	.1	0.4	0.4	0	INT	L
		28	1630	40.15	19	24.39	155	16.27	8.80	1.7	1.2	20	4	132	.07	.1	0.6	0.6	0	INT	L
		28	1857	13.98	19	13.95	155	20.52	8.55	2.1	1.9	42	4	115	.12	.4	0.4	0.7	0	LSW	
		28	2326	45.60	19	22.28	155	10.65	2.92	1.3	1.3	17	3	145	.09	.2	0.9	0.4	0	SMR	
		29	0 8	22.56	19	24.29	155	0.62	7.28	2.1	2.0	41	3	137	.12	.4	0.4	0.6	0	SP5	
		29	821	57.58	19	25.31	155	11.96	12.46	2.0	1.3	15	2	203	.12	.2	1.6	1.1	0	INT	L
		29	1122	37.78	19	19.65	155	8.49	8.10	2.1	2.1	43	2	80	.10	.4	0.4	0.6	0	SP4	
		29	1126	3.37	19	19.67	155	8.71	6.56		1.5	30	0	78	.09	.5	0.5	1.1	0	SP4	
		29	1142	21.22	19	24.92	155	15.00	3.28	1.6	1.0	18	4	173	.11	.1	0.6	0.4	0	SUC	L
		29	1142	56.47	19	23.12	155	19.46	0.01	1.4	1.3	13	2	119	.15	.4	0.4	0.7	0	KAO	L
		29	1153	43.45	19	23.67	155	19.01	3.20	1.4	1.1	13	4	145	.11	.4	0.9	1.9	0	SUC	L
		29	13 1	19.85	19	22.86	155	17.77	4.26	1.5	0.9	14	3	139	.14	.2	0.7	1.3	0	SUC	L
		29	1310	12.70	19	22.95	155	17.99	2.67	2.0	1.4	16	2	64	.14	.2	0.4	0.7	0	SUC	L
		29	2116	17.26	19	23.94	155	11.79	3.00	1.4	1.4	18	5	97	.06	.2	0.3	0.5	0	SUC	
		30	8 5	2.12	19	14.42	155	33.62	3.69	3.1	3.0	49	6	144	.15	.6	0.7	1.5	0	LSW	
		30	810	53.78	19	20.47	155	11.60	8.89	2.1	1.9	45	7	76	.12	.4	0.4	0.6	0	SP3	
		30	1641	49.08	19	12.01	155	27.44	7.09	2.1	1.9	37	2	117	.12	.5	0.5	1.0	0	LSW	
		30	1911	3.00	19	28.18	155	26.32	3.67	1.5	1.0	22	4	78	.09	.6	0.3	1.4	0	KAO	

YEAR	MON	ORIGIN DA	TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	MD FM	REMK
1991	DEC	31	241	37.41	19	23.45	155	37.36	11.50	2.5	1.9	47	9	54	.12	6	0.3	0.5	0	MDL
		31	536	39.26	19	5.49	155	23.75	33.84		1.6	41	3	239	.09	10	1.6	1.0	0	LOI
		31	838	41.18	19	24.10	155	16.06	1.38	2.4	1.4	26	6	117	.10	1	0.2	0.2	0	SBC
		31	1239	23.04	19	29.50	155	33.72	42.00	2.1	1.4	24	6	61	.14	3	1.1	1.2	0	DML
		31	1521	26.66	19	22.31	155	19.53	29.94	2.6	2.4	56	11	40	.11	3	0.5	0.6	0	DML
		31	1748	52.57	19	59.46	155	2.91	43.45	3.5	2.6	50	6	236	.12	30	1.1	1.7	0	NEA
		31	1814	16.79	19	28.08	155	33.92	23.78	1.9	1.1	17	2	69	.11	2	0.9	1.4	0	DML
		31	2231	39.11	19	19.49	155	11.56	5.29	1.4	1.3	34	4	94	.11	6	0.4	1.2	0	SP3
		31	2244	10.93	19	27.29	155	34.68	42.01	1.9	1.1	14	3	74	.11	2	1.5	1.2	0	DML

Table 6. 1991 HVO EARTHQUAKE SUMMARY LIST M>=3.0

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	JAN	1	535	20.78	19	20.78	155	7.31	8.99	3.3	3.6	50	6	89	.10	5	0.3	0.3	0	SF4
		7	1219	34.43	19	31.60	155	37.26	11.25	3.3	3.3	47	5	109	.11	4	0.4	0.3	0	MLO
	FEB	8	10 5	45.02	19	48.23	156	9.72	37.49	3.6	3.2	52	7	254	.12	43	1.0	1.3	0	HUA
		11	1123	58.91	19	13.04	155	41.46	5.83	3.5	3.8	51	7	113	.20	8	0.6	1.2	0	LSW F
		23	754	54.04	19	20.71	155	7.81	9.01	3.4	3.7	54	8	84	.10	4	0.3	0.3	0	SF4 F
		23	1047	39.71	19	20.05	155	11.98	9.27	3.0	3.4	50	9	80	.11	5	0.4	0.4	0	SF3
		24	23 4	0.63	19	36.15	156	1.35	45.20	3.9	3.8	59	11	226	.10	17	0.7	1.0	0	KON
	MAR	7	413	21.88	19	58.45	155	41.71	30.14	4.2	4.2	61	10	131	.10	13	0.5	1.1	0	KOH F
		11	1421	1.69	19	29.21	155	27.04	6.68	3.3	3.0	58	14	67	.13	6	0.3	0.8	0	KAO
		23	1841	59.19	19	58.92	155	48.77	16.79	3.6	3.8	55	7	180	.12	17	0.9	3.4	0	KOH
		25	22 3	24.68	19	19.53	155	30.09	9.52	3.1	3.1	54	8	86	.11	7	0.3	0.6	0	KAO
		26	557	32.22	19	21.94	155	12.94	8.99	3.3	3.4	49	6	52	.11	1	0.3	0.4	0	SER F
		26	7 4	30.61	19	21.28	155	12.91	1.22	3.0	3.0	42	7	58	.16	2	0.3	0.5	0	SER F
		28	13 5	55.16	19	18.82	155	13.27	9.04	3.7	3.9	54	8	126	.12	7	0.4	0.3	0	SF2 F
		28	14 3	32.78	19	19.11	155	13.31	10.33	3.8	4.1	53	8	123	.12	7	0.3	0.3	0	SF2 F
		28	1418	35.63	19	19.26	155	13.49	9.53	3.5	4.0	54	6	121	.13	6	0.4	0.4	0	SF2 F
		29	2231	6.89	18	51.92	155	20.69	16.61	3.2	3.0	60	12	254	.12	35	0.9	12.5	0	LOI
	APR	8	1639	1.70	20	30.13	156	2.65	11.37	3.3	3.2	56	9	317	.11	82	5.6	7.1	0	DIS
		17	814	29.38	19	19.20	154	56.42	42.77	3.8	3.4	69	18	214	.10	11	0.8	0.6	0	LER F
		26	542	36.20	20	51.93	155	25.72	15.59	4.0	4.0	49	5	314	.13	90	5.8	12.4	0	DIS
	MAY	8	821	11.98	19	20.56	156	12.98	31.38	5.5	5.3	50	3	263	.11	35	1.3	1.6	0	KON F
		8	830	12.54	19	24.09	156	15.86	32.53	3.6	3.3	55	9	266	.10	38	0.7	1.1	0	KON
		8	1031	56.77	19	23.08	156	23.36	36.20	3.5	3.0	53	13	277	.10	51	0.9	1.5	0	DIS
		8	1447	32.86	19	21.10	156	18.54	35.08	3.8	4.0	50	4	271	.11	44	1.1	1.5	0	KON F
		9	1415	36.78	18	58.95	155	27.16	36.44	3.4	3.2	57	8	220	.09	20	0.8	0.8	0	DLS
		30	1756	43.40	19	57.21	155	19.95	11.23	3.2	3.0	51	9	198	.12	7	0.7	0.5	0	KEA
	JUN	1	642	41.30	19	18.65	155	18.42	33.08	3.1	3.4	60	9	87	.11	1	0.5	0.6	0	DEP F
		5	1513	0.45	19	32.97	155	14.60	3.81	3.3	3.2	50	6	49	.12	3	0.3	0.4	0	SEC F
		13	2217	28.54	21	20.23	156	57.53	6.52	4.0	3.1	49	6	339	.14	182	10.2	13.1	0	DIS
		18	031	16.10	19	19.80	155	10.54	8.66	2.9	3.3	50	5	90	.11	4	0.4	0.4	0	SF3
		18	18 8	25.82	19	27.37	154	52.67	9.77	3.0	3.1	51	8	145	.11	3	0.6	0.2	0	LER F
		25	6 9	42.31	19	20.09	155	12.07	8.26	2.9	3.1	52	7	79	.13	5	0.4	0.5	0	SF3 F
		27	1330	16.24	18	53.02	155	8.66	12.44	3.4	3.1	69	11	257	.14	45	1.7	2.9	0	LOI
		28	940	23.69	19	20.31	155	3.15	8.29	2.8	3.3	52	7	94	.12	1	0.6	0.4	0	SF5
		29	1617	15.14	19	20.03	155	6.76	9.02	3.5	3.8	48	6	111	.10	5	0.3	0.4	0	SF4
	JUL	1	534	27.51	19	20.40	155	29.90	9.65	2.9	3.2	53	7	68	.10	6	0.3	0.5	0	KAO
		21	1240	45.11	19	20.03	155	11.74	9.58	2.8	3.1	46	5	83	.10	5	0.4	0.5	0	SF3
	AUG	3	2055	16.67	19	25.13	155	18.92	5.75	3.0	3.1	44	4	41	.12	2	0.3	0.6	0	INT F
		5	1945	42.17	19	18.74	155	13.48	10.10	3.8	3.9	57	7	75	.11	3	0.4	0.3	0	SF2 F
		6	1859	25.18	19	29.87	155	30.37	22.76	3.0	3.0	72	21	36	.10	6	0.3	0.5	0	DML
		11	329	59.69	19	22.82	155	4.29	8.76	3.5	3.7	51	7	87	.09	3	0.3	0.3	0	SF5
		18	2325	42.00	18	43.40	156	39.55	29.76	4.7	4.0	57	8	324	.10	103	1.3	2.4	0	DIS
		21	11 9	49.48	19	23.68	155	15.10	3.26	3.0	3.3	44	6	44	.12	2	0.3	0.4	0	SEC
		23	2132	11.18	19	19.72	155	11.77	7.98	2.8	3.0	53	7	88	.13	6	0.4	0.5	0	SF3
	SEP	4	7 5	16.46	19	12.15	155	37.15	9.67	4.1	4.5	54	8	94	.17	5	0.4	0.6	0	LSW F

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	CODA MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1991	SEP	5	2356	34.24	18	55.37	155	3.55	35.41	3.9	3.4	61	14	257	.11	41	0.8	2.0	0	LOI F
		12	3 2	45.66	19	18.29	155	14.14	9.70	3.1	3.2	49	7	83	.11	3	0.4	0.5	0	SF2
		15	14 5	46.82	19	21.84	155	7.35	9.64	2.8	3.0	50	6	165	.10	3	0.6	0.4	0	SF4
		25	739	31.47	19	11.89	155	35.44	7.82	3.8	3.8	49	6	91	.21	6	0.5	1.0	0	LSW F
	OCT	2	1629	35.95	19	15.77	156	20.56	44.17	4.4	4.2	54	11	278	.10	49	1.1	1.3	0	DIS F
		4	17 9	16.83	19	22.53	155	24.68	11.51	3.6	3.8	54	6	26	.12	5	0.3	0.4	0	KAO F
		19	1217	39.52	19	15.03	155	35.06	6.15	3.3	3.5	54	14	71	.12	4	0.3	0.8	0	LSW
		23	250	28.60	21	20.02	157	24.42	23.35	4.1	3.1	45	7	341	.13	265	3.4	5.9	0	DIS F
		26	1612	27.17	19	31.76	155	5.11	9.02	3.1	3.3	56	7	81	.10	5	0.4	0.3	0	SF5
	NOV	1	1020	21.97	19	19.67	155	12.39	9.43	4.0	4.3	52	4	84	.10	5	0.4	0.3	0	SF2 F
		5	1215	48.00	19	20.58	155	11.74	7.94	3.4	3.7	56	7	73	.13	4	0.4	0.5	0	SF3
		10	2147	57.43	19	47.46	155	24.50	25.00	3.4	3.3	56	18	149	.11	5	0.5	1.0	0	KEA
		13	1052	2.07	19	21.34	155	13.34	9.75	2.3	3.3	57	14	54	.11	2	0.3	0.4	0	SF2 F
		15	1238	35.27	19	20.23	154	43.52	48.41	3.1	3.0	53	9	282	.10	19	1.1	0.8	0	LER
		21	2243	59.00	19	22.10	155	30.24	9.72	3.0	3.0	51	7	34	.09	5	0.3	0.5	0	KAO
		23	750	34.17	19	9.53	155	40.17	0.93	2.9	3.3	47	7	122	.21	11	0.6	0.6	0	LSW
	DEC	9	658	14.38	18	52.67	155	27.13	33.38	3.3	3.0	58	12	254	.10	25	0.8	1.4	0	DLS
		9	1314	10.48	18	50.11	155	50.94	46.42	5.2	4.6	60	3	299	.10	25	1.8	0.6	0	DIS F
		10	134	16.21	20	7.93	155	37.28	7.76	3.3	3.0	44	3	220	.09	17	1.0	0.7	0	KOH F
		12	037	4.62	19	27.12	155	14.20	33.77	3.8	3.8	58	11	59	.11	4	0.5	0.6	0	DEP F
		19	0 7	21.17	19	23.32	155	15.05	3.63	3.1	3.7	29	8	105	.08	2	0.3	0.3	0	SEC
		19	339	48.88	18	55.94	155	16.46	14.00	3.0	3.2	22	0	278	.09	32	4.5	1.6	0	LOI
		19	345	59.20	18	52.41	155	14.70	13.88	3.0	3.1	32	12	285	.11	39	3.4	5.1	0	LOI
		19	415	35.72	18	56.17	155	15.28	14.42	3.1	3.4	28	7	277	.10	33	1.1	1.5	0	LOI
		19	5 6	2.59	18	53.09	155	12.52	13.15	3.0	3.1	23	4	285	.12	41	3.9	3.8	0	LOI
		19	524	25.79	18	54.07	155	12.85	12.65	3.3	3.4	30	10	282	.11	39	1.2	1.3	0	LOI
		19	528	39.24	19	1.63	155	15.27	14.61	3.7	4.1	27	4	262	.10	26	1.4	1.2	0	LOI
		19	538	1.27	18	53.35	155	11.43	12.47	3.1	3.2	30	11	300	.10	42	1.3	1.5	0	LOI
		19	542	31.60	19	0.48	155	13.73	14.12	3.0	3.5	24	3	266	.09	30	1.4	1.0	0	LOI
		19	620	54.92	18	56.46	155	13.95	1.69	3.7	4.0	27	7	277	.13	34	1.3	1.0	0	LOI
		19	643	26.72	18	58.87	155	10.21	48.99	3.4	3.3	28	7	271	.12	37	2.0	2.4	0	LOI
		19	711	44.44	18	52.86	155	14.52	12.49	3.0	3.2	31	11	284	.11	39	1.0	1.0	0	LOI
		19	715	57.31	19	0.85	155	13.52	14.63	4.0	4.3	30	8	265	.11	30	1.4	1.6	0	LOI
		19	813	25.80	18	56.08	155	13.43	3.58	3.6	3.0	38	4	274	.13	39	1.4	0.7	0	LOI
		19	1747	57.10	18	55.61	155	12.31	12.28	3.7	3.5	45	10	286	.12	38	1.1	0.5	0	LOI
		20	426	58.08	18	57.71	155	11.49	8.84	3.1	3.0	46	8	274	.13	36	0.7	0.7	0	LOI
		20	730	45.97	18	57.13	155	9.60	11.75	2.9	3.2	48	9	276	.14	37	1.2	0.6	0	LOI
		23	224	12.66	19	33.65	156	8.05	33.93	3.1	3.1	46	5	251	.11	24	1.1	1.3	0	KON
		26	457	0.01	19	18.77	155	13.77	9.65	3.4	3.6	53	9	87	.11	3	0.4	0.4	0	SF2
		30	3 5	2.12	19	14.42	155	33.62	3.69	3.1	3.0	49	6	144	.15	6	0.7	1.5	0	LSW F