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Summary 83
Seismic Data, January to December 1983
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Chronological Summary
By Robert W. Decker

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INTRODUCTORY NOTE

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

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

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

Chronology

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

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

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

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

Thomas L. Wright and Jennifer S. Nakata

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

HAWAIIAN VOLCANO OBSERVATORY
SUMMARY 83
SEISMIC DATA, JANUARY TO DECEMBER 1983

Menlo Park, California
1984

UNITED STATES
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SEISMIC DATA, JANUARY TO DECEMBER 1983

BY

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CHRONOLOGICAL SUMMARY

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INTRODUCTION

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

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

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

CHRONOLOGICAL SUMMARY - 1983

by

Robert W. Decker

1983 was a busy year for both Hawaiian volcanic and seismic activity. The middle-east-rift eruption of Kilauea which began on January 3 continued intermittently throughout the year with 12 major phases of high-volume lava emission. Mauna Loa showed signs of unrest in terms of increased seismic activity and changing patterns of surface deformation, and the Observatory was rocked and damaged by intensity VIII to IX shaking from the magnitude 6.6 Kaoiki earthquake 12 kilometers beneath the southeast flank of Mauna Loa on November 16.

The middle-east-rift eruption of Kilauea was preceded by 24 hours of high seismicity, harmonic tremor and rapid summit deflation as the feeding dike of the eventual eruption was emplaced beneath a 10 km segment of the east rift zone from about 1 km west of Makaopuhi Crater to the vicinity of Pu'u Kamoamoa. Over the next 4 to 5 days the dike extended another 6 km downrift to about 2 km east of Kalalua. The eruptive outbreak occurred on the north rim of Napau Crater and moved eastward along a line of fissures for 8 kilometers. The volume of lava erupted in the first phase was approximately 11 million m^3, but the amount of summit deflation (60 to 70 million m^3 from leveling data) indicates that at least 50 million m^3 of magma moved from the summit into the newly formed dike system.

Subsequent phases of the eruption occurred from the same dike system without new seismic swarms, indicating that the continuing eruption was using portions of the same conduit system established during the first phase. Phases 2 through 12 were remarkably similar in period, volume and summit tilt changes, suggesting a repetitive process controlled by some interaction of summit magma reservoir pressure and the gas content and pressure head of the lava column in the erupting dike. The major lava emission of phases 2 through 12 ocurred on the following dates: (2) February 25-March 4; (3) March 28-April 9; (4) June 13-17; (5) June 29-July 3; (6) July 22-25; (7) August 15-17; (8) September 6-7; (9) September 15-17; (10) October 5-7; (11) November 6-7; and (12) November 30-December 1. The average time period between the main onsets of the major phases was 30 days; the shortest was 9 days, and the longest was 77 days. In general, the phases were of shorter duration as the eruption progressed. However, the volumes of the phases, with one exception, were remarkably similar; the average was 11.9 x $10^6 m^3$, the largest (phase 3) was 25.6 x $10^6 m^3$, and the smallest (phase 8) was 7.6 x $10^6 m^3$. This combination of shorter eruption duration but similar eruption volume indicates that later phases (excluding phase 1) were erupted at higher eruption rates. This conclusion is supported by field estimates of eruption rates, and by the general increase in the rate of summit subsidence and harmonic tremor measured during each subsequent phase.

Table I. The middle-east-rift eruption of Kilauea, 1983 (Ed Wolfe).

Phase	Total Area Covered ($\times 10^6$ m^2)	Total Volume of Lava ($\times 10^6 m^3$)	Duration and Average Production Rate (total volume/duration)
1	4.8	11.0	96 hours; 104,000 m^3/hour
2	2.7	11.5	lava shield: 360 hrs; 1400 m^3/hour cone: 181 hrs; 60,000 m^3/hr
3	7.9	25.6	288 hours; 90,000 m^3/hour
4	2.2	10.9	100 hours; 110,000 m^3/hour
5	3.4	12.9	90 hours; 143,000 m^3/hour
6	2.8	9.4	73 hours; 120,000 m^3/hour
7	3.7	10.3	57 hours; 180,000 m^3/hour
8	2.0	7.6	24 hours; 315,000 m^3/hour
9	2.1	8.6	50 hours; 173,000 m^3/hour
10	2.7	14.0	60 hours; 232,000 m^3/hour
11	4.3	12.1	43 hours; 281,000 m^3/hour
12	3.0	8.1	35 hours; 231,000 m^3/hour
TOTALS-1983	26.0	141.8	1457 hours = 61 days

All 12 phases of the 1983 eruption have a total volume of about 140 x 10^6 m^3 and covered about 26 km^2 of land surface. (In Table I, the total area covered is less than the sum of the areas covered in each phase -- 41.6 km^2; this difference represents later phases resurfacing areas covered in earlier phases.) Most of the area covered by the new flows was dense ohia-fern forest, but some was barren flows from eruptions during the 1960's, and some was in a relatively undeveloped land subdivision called Royal Gardens. Phases 2 through 5 produced flows that entered Royal Gardens, destroying about 15 dwellings and covering about 330 empty house lots and their access roads. Flows from phases 6 through 12 came from the same vent area as phases 4 and 5; however, the main lava channel in these later phases developed on the northeast rather than the southeast side of the growing cinder and spatter cone. For this reason most of the flow volume in phases 6-12 stayed on the north side of the rift zone in the ohia-fern jungle. Phases 2 and 3 built a small lava shield capped by an 80 m high spatter and cinder cone at their principle vent area just south of Pu'u Kahauale'a. Phases 4 through 12 built another 80 m-high spatter and cinder cone just inside the National Park boundary about 1.5 km uprift from Pu'u Kahauale'a.

The erupted lavas before phase 5 were relatively low in magnesium content and the associated magmatic gases were low in carbon dioxide and high in sulfur dioxide. These data and the generally low eruption temperatures (1120°-1130°C) indicate that much of the erupted magma prior to July 1983 was stored at shallow levels in the summit or middle east rift zone for months to years prior to eruption. Even after phase 5 the C/S ratio of the gas remained low. Nevertheless, the total gas content was great enough to produce lava fountains during all of the major eruptive phases, reaching a maximum height of 300 m *in phases* 3 and 10.

Mauna Loa began to show signs of increasing unrest with a swarm of microearthquakes beneath its summit region in early March 1983. Earthquake counts increased to a maximum of 400 to 500 per day compared to a former background of 2 to 20 events per day. Deformation measurements indicated that the summit was continuing to inflate and that the center of the uplift had shifted to the east. Small earthquake swarms in June and July were followed by a major swarm in September that peaked at about 700 events per day. Following that swarm the number of microearthquakes per day beneath Mauna Loa decreased back to almost average levels by the end of 1983. The general similarity in the pattern of Mauna Loa earthquakes and deformation in 1983 compared to 1974 -- the year prior to the last eruption of Mauna Loa in July 1975 -- prompted HVO to issue a statement indicating a higher-than-average probability of an eruption of Mauna Loa during 1984.

During 1983 there were 35 earthquakes beneath the Hawaii region that equalled or exceeded magnitude 4, two that exceeded magnitude 5, and one that exceeded magnitude 6. The magnitude 5.1 earthquake occurred 9 km beneath the south flank of Kilauea on September 9. It was apparently another one of the larger earthquakes associated with the seaward displacement of the south flank of Kilauea.

On November 16, 1983, at 06:13 (HST) a magnitude 6.6 earthquake occurred at 12 km depth in the Kaoiki seismic zone beneath the southeast flank of Mauna Loa. The epicenter was slightly south of the mid-point of a line drawn between the summit calderas of Kilauea and Mauna Loa. The summit area of Kilauea was subjected to intensity VIII to IX shaking which did considerable damage but fortunately caused only a few minor injuries. Sectors of the crater rim road near Waldron Ledge fell into the caldera, and heavy damage was caused to roads where they cross or closely parallel the outer caldera escarpments of Kilauea. Considerable structural damage also occurred in Hilo. The total damage estimate was about $7,000,000.

First-motion studies indicate a source mechanism of nearly east-west compression and north-south extension. A northeast-southwest, right-lateral strike-slip fault is the apparent fracture direction from both surface breaks on the Mauna Loa strip road and aftershock sequences of smaller Kaoiki earthquakes. The initial location of hundreds of aftershocks from this magnitude 6.6 earthquake suggest multiple fractures on conjugate slip planes allowing east-west contraction and north-south extension. The stress field that caused this large earthquake is interpreted to originate from the summit dilation of Mauna Loa and Kilauea as magma accumulates in their subsurface reservoir systems. Thus, although the earthquakes is a tectonic earthquake in the sense that it represents shear failure from major compressive stresses, it can also be considered volcanic in origin because the stresses are generated by magmatic

pressures. As in much research, sharp distinctions between classes and types of phenomena become more blurred as investigations progress.

The automatic earthquake location microprocessor designed by Rex Allen and Jim Ellis of the USGS in Menlo Park, CA, did a creditable job of locating in nearly real time the earthquake swarm that preceded and accompanied phase 1 of the 1983 Kilauea eruption. This allowed field observers to be in the remote area near Napau Crater at the time and location the eruption began.

Deformation studies again provided some interesting new results. The emplacement of the dike that initiated the 1983 eruption was associated with a nearly simultaneous increase in earthquakes and strain within the south flank of Kilauea. The coastline moved about 1 meter seaward in response to a 2 to 3 meter dilation of the rift zone. The difference between these displacements represents compression of the south flank of Kilauea between the middle east rift and the seacoast. The increase in south flank earthquakes apparently resulted from this increase in compressive stress from the injection of a new dike 12 km long reaching from a 3 km depth to the suface. Recording tiltmeters along the track of the intruding dike indicated a downrift migration rate of 1.9 km/hr in comparison to the downrift migration rate of the earthquakes of 0.7 km/hr. This suggests that the dike broke upward from a pre-existing molten core along the rift zone below 3 km following the injection of a pulse of new magma into the middle-east-rift pipeline.

The amount of summit subsidence and elevation of the eruption vents of Kilauea's east-rift-zone eruptions show a strong correlation indicating magmastatic pressure control of the volume of magma that moves from the summit into the rift zone. Calculations of the relationship between radial summit tilt measured at HVO (Uwekahuna), and the change in elevation of the apex of the summit bulge of Kilauea, the volume change of the surface bulge, and change in the pressure in the shallow magma reservoir beneath the summit are approximately: 1 microradian of S 60 E tilt (deflation) = 5.5 mm subsidence = 330,000 m^3 decrease in volume = 0.9 bars pressure decrease.

Sulfur dioxide gas from Halemaumau has increased in volume from about 150 tons per day in 1982 to about 300 tons per day in 1983. The ratio of carbon to surfur measured at Halemaumau is 17; the ratio at the 1983 eruption site on the middle east rift is 0.2. This dramatic loss of carbon dioxide appears to take place as magma moves into and is stored within the shallow magma reservoir system beneath the summit of Kilauea.

Self-potential (S-P) anomalies measured along the east rift of Kilauea have added some interesting insights into the 1983 eruption. An increase in S-P at Kalalua, downrift from the eruptive vents, supports seismic data which indicate that the intrusive dike on January 7, 1983, moved farther downrift than the eruptive vents. In addition, S-P increases at Escape Road near Mauna Ulu between October and November, 1982, suggest that new magma was moving into the upper east rift 2 months prior to the beginning of the 1983 eruption.

The apparent presence of iridium in fume from the 1983 eruption reported by W. H. Zoller et al in Science (December 9, 1983, p. 1118-1121) has added fuel to the hot debate about interpretation of the iridium anomaly at the Cretaceous-Tertiary boundary.

The observatory staff consists of 8 scientist and 16 support personnel. In addition 18 students and volunteers helped HVO during 1983. The staff monitored 48 seismic stations, 1204 electronic distance measurement lines, 275 km of level lines, 99 tilt stations, 15 recording tiltmeters, 13 strain gauges, 130 gravity stations, 12 self-potential lines, 1 controlled-source electromagnetic induction loop with 4 receiver stations, 21 gas-sampling and temperature sites, and many special devices to monitor the long-lasting eruption such as time-lapse cameras, video camera, trip wires, and portable tremor-monitoring seismometers. Many of HVO's monitors record continuously; others are observed at various intervals. The remote location of the eruption site required over 500 hours of helicopter support which posed serious problems of safety, expense, communication and logistics. The data reduction, graphics, and data storage of the overall monitoring program are largely handled by HVO's computer system.

Four USGS geologists continued their mapping projects on Hawaii. Their close affiliation with HVO has been essential during the 12 vigorous eruption phases that required 24 hour per day surveillance.

Four members of the combined HVO staff and geological affiliates were involved in investigations of Indonesian volcanoes, Pagan Volcano in the Marianas, Rabaul Volcano in Papua New Guinea, and of Mount St. Helens and Yellowstone.

HVO cooperated with 60 guest investigators during the year for time periods up to 2 months. Staff members and guest investigators presented 26 papers at scientific meetings and published 34 papers and 4 open-file reports. HVO also issued weekly, monthly and annual reports, as well as daily updates during the major eruptive phases.

Hawaii Volcanoes National Park estimated they had 2,800,000 visitors in 1983. About 50% of these visitors stopped at HVO to view Kilauea Caldera and to look in HVO's windows at the seismographs and the eruption chronology board. About 1600 visitors including 22 student groups, 4 professional-meeting groups and George Ariyoshi, Governor of Hawaii, toured the inner workings of the observatory. A new record to TV and news photographers was established with an estimated 300 visiting the observatory. Many of these were multiple visits throughout the year by the same news teams.

It was exhausting, but a great year at HVO.

SEISMIC INSTRUMENTATION

The network. The Hawaiian Volcano Observatory maintains an extensive telemetering seismometer network on the island of Hawaii. In 1983 the seismometer network consisted of 51 stations; two are low-gain multicomponent stations (optical), nine are three-component, and 40 are vertical only. The coverage is most complete on and around Kilauea Volcano. With the exception of self-contained systems at Uwekahuna and Hilo stations, all seismometer signals from the short period network are telemetered to the observatory for recording.

Figure 1 is a map of selected geographic and geologic features, Figure 2 shows the seismic stations which were operated on the Island of Hawaii during the year, and Figure 3 indicates the telemetry scheme for the respective seismic stations. Table 1 lists all seismic stations operated by the U.S. Geological Survey in Hawaii during 1983. Listed are station names, three- and four-letter codes, coordinates in degrees and minutes, elevation in meters, and other data described below. In addition to seismometers listed in Table 1, a horizontal seismometer of Type 3 or H1 and a long-period, three-component set of Press-Ewing seismometers are operated in the Uwekahuna vault, all recorded on photographic paper.

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

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

In late August, 1982, Rex Allen and Jim Ellis from the U.S. Geological Survey's Office of Earthquake Studies came to HVO to install their seismic monitoring system uniquely designed to automate picking of P-phase onset times, measuring coda lengths, and determinining preliminary epicenters for adequately recorded earthquakes. The Hawaii picker is configured to monitor a maximum of 80 stations, but is currently wired to 45 stations. Attached to the picker are a Datasouth Printer and an Apple II microcomputer. The picker output is logged on a disk and printed out on chart paper within three minutes after the earthquake occurs. The data collected on disk is tranferred to the Eclipse, the main computer system, on a daily basis using a second Apple II. The earthquake records are filtered and run through our standard location program (HYPOINVERSE). Summary listings and epicenter plots are prepared on chart paper, and the phase data are archived on tape. The picker output is routinely

compared with readings from our standard format. Modifications are being made to adapt the automated system to better accommodate seismic monitoring needs around Hawaii's active volcanoes.

Seismograph response and calibration. Displacement response curves for the four short-period seismograph types in use are given in Figure 3. Types three and four are electro-mechanical systems recorded on paper records. The Type 1 curve gives the displacement magnification of the standard OEVE system from ground motion at the seismometer to the seismic trace as seen on a 20x Develocorder film viewer. The curves plot the unit response which should be multiplied by a constant but known factor (CAL, Table 1) to get the response for an individual station. Individual CAL factors for Type 1 seismographs are equal to the peak-to-peak amplitude measured in mm on the 20X Develocorder viewer of a 10 microvolt 5 Hz signal introduced to the preamp/VCO in place of the geophone. Calibration is normally done each time a station is visited. CAL factors range from about 1 to 8, averaging about 4. A detailed history of CAL factors and other data is given in F.W. Klein and R.Y. Koyanagi, Hawaiian Volcano Observatory Seismic Network History 1950-79, U.S. Geological Survey Open File Report 80-302, 1980.

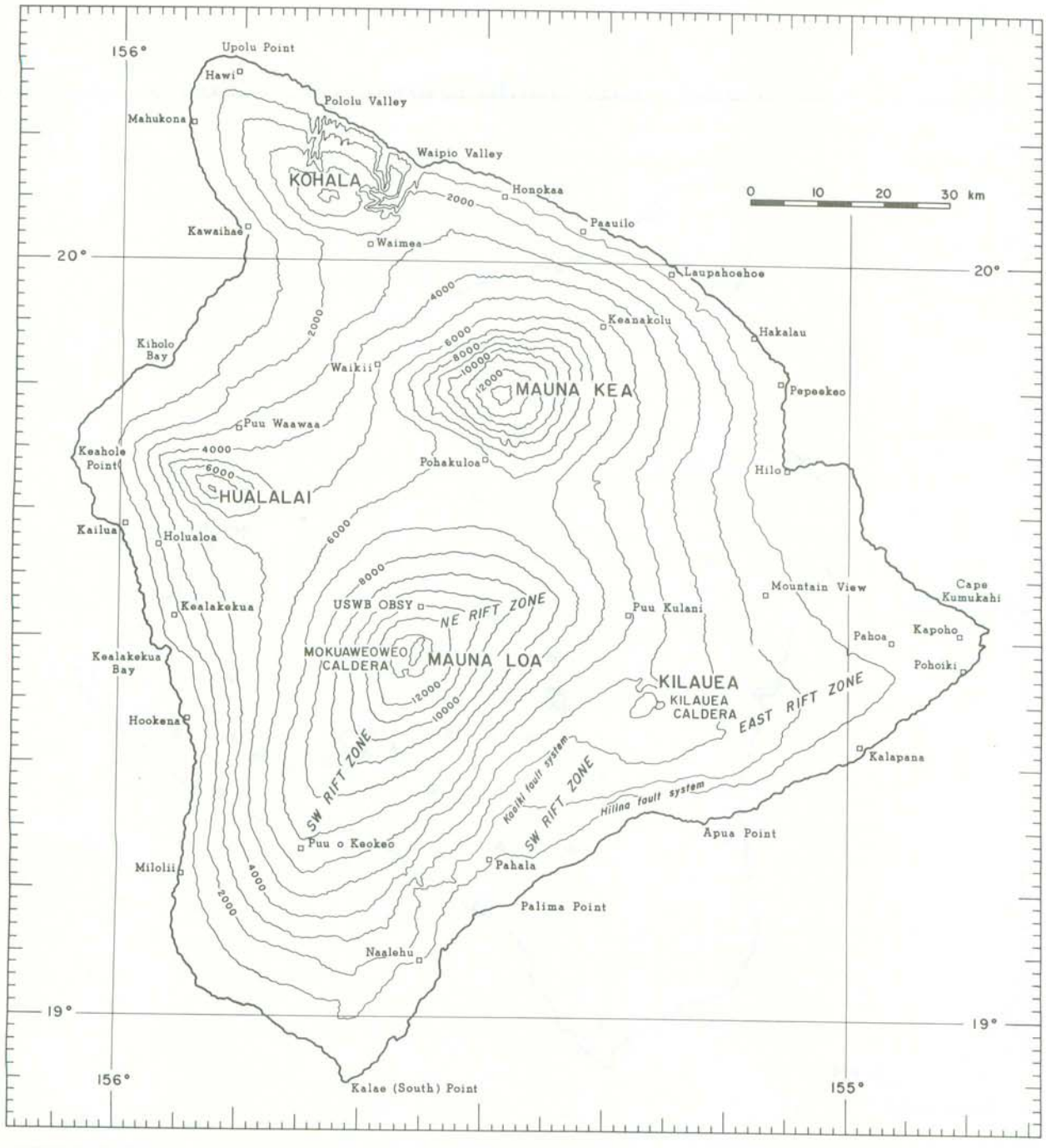

Figure 1. Map of the island of Hawaii showing principal settlements and selected geographic and geologic features.

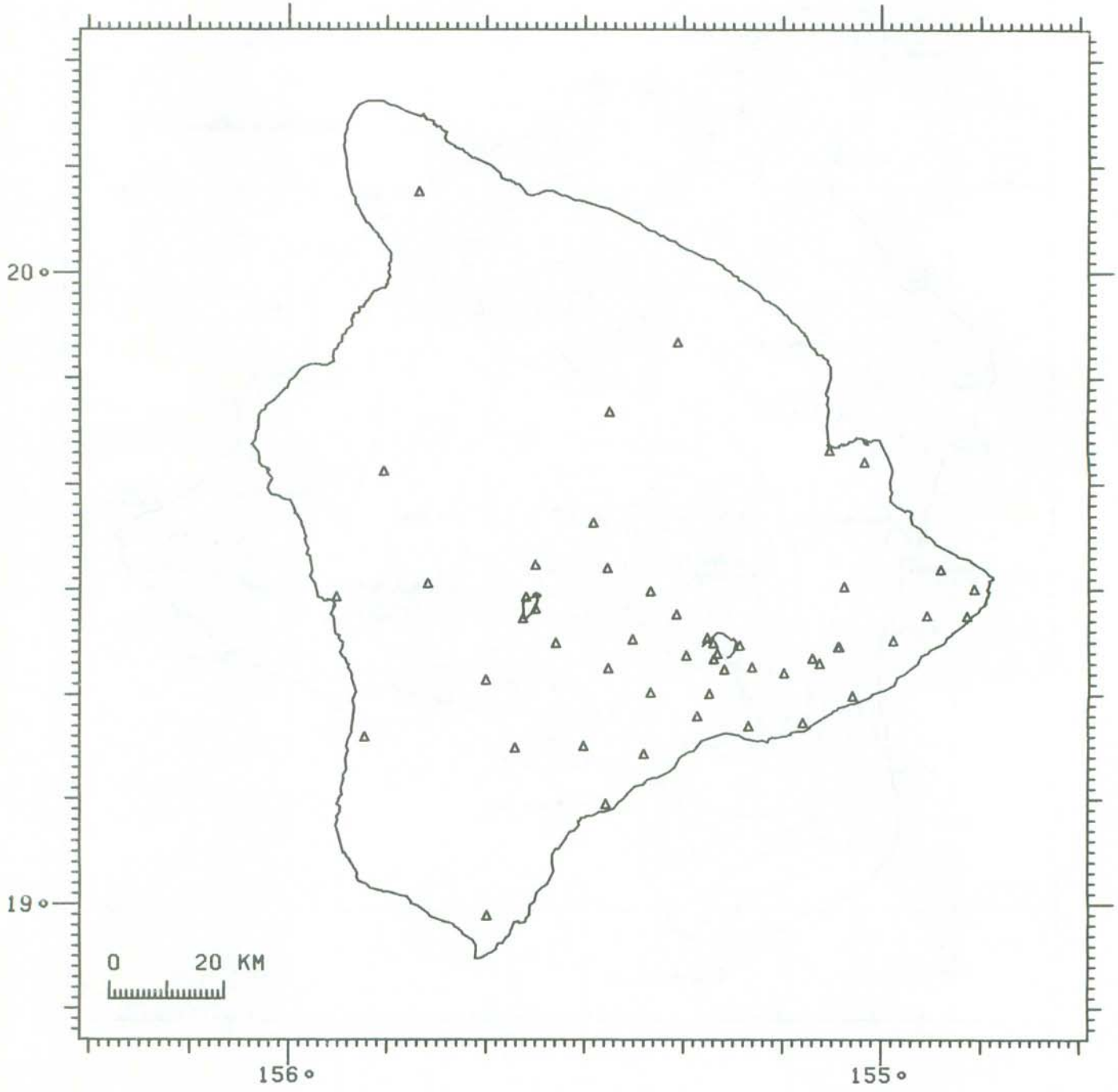

Figure 2. Map of the island of Hawaii showing seismic stations operational during 1983.

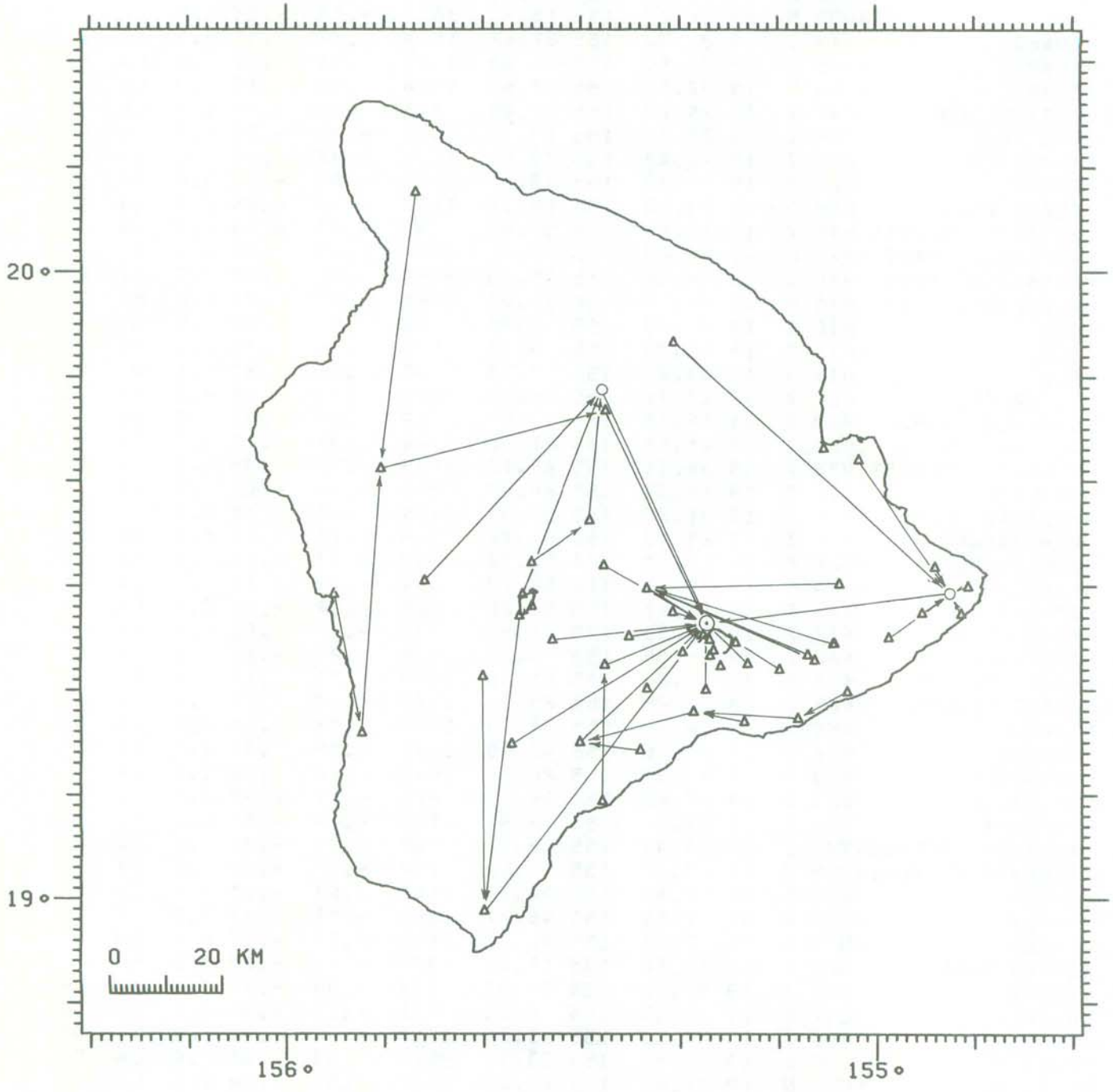

Figure 3. Map of the island of Hawaii showing the telemetry scheme for the Hawaiian Volcano Observatory seismic network.

Legend △ Seismometer location
○ Repeater Station

Table 1. Seismometer stations in Hawaii operated by the U.S. Geological Survey, 1983.

STATION NAME	CODE		--LAT--- D	M	---LON--- D	M	ELEV (M)	DELAY 1	DELAY 2	CAL	SEIS TYPE	OPTIC RECORD
AHUA	AHU	Z	19	22.40	155	15.90	1070	-.10	-.13	2.1	E4	SD
AHUA	AHUE	E	19	22.40	155	15.90	1070	-.10	-.13	.0	E4	
AHUA	AHUN	N	19	22.40	155	15.90	1070	-.10	-.13	.0	E4	
AINAPO	AIN	Z	19	22.50	155	27.62	1524	.13	.17	5.5	L4	D
AINAPO	AINE	E	19	22.50	155	27.62	1524	.13	.17	.0	L4	
AINAPO	AINN	N	19	22.50	155	27.62	1524	.13	.17	.0	L4	
CAPTAIN COOK	CAC	Z	19	29.29	155	55.09	323	.00	-.16	1.1	L4	D
CONE PEAK	CPK	Z	19	23.70	155	19.70	1038	-.26	-.07	6.0	L4	D
DANDELION	DAN	Z	19	21.42	155	40.04	3003	-.27	.03	7.0	L4	D
DESERT	DES	Z	19	20.20	155	23.30	815	-.29	-.13	3.0	E4	SD
ESCAPE ROAD	ESR	Z	19	24.68	155	14.33	1177	-.17	-.19	2.0	L4	D
HAWAIIAN BEACHES	HAB	Z	19	31.89	154	53.89	92	-.09	-.24	1.0	L4	
HALEAKALA, MAUI	HAE	E	20	46.00	156	15.00	2090	.00	.00	1.0	W	P
HALEAKALA, MAUI	HAL	Z	20	46.00	156	15.00	2090	.00	.00	.7	H1	P
HALEAKALA, MAUI	HAN	N	20	46.00	156	15.00	2090	.00	.00	1.0	W	P
HILO	HIE	E	19	43.20	155	5.30	20	.54	.30	1.0	W	P
HILO	HIL	Z	19	43.20	155	5.30	20	.54	.30	1.0	H1	P
HILO	HIN	N	19	43.20	155	5.30	20	.54	.30	1.0	W	P
HILINA PALI	HLP	Z	19	17.96	155	18.63	707	.02	.07	2.2	L4	D
HONOLULU, OAHU	HON	Z	21	19.30	158	.50	2	.00	.00	.0	H1	P
HALE POHAKU	HPU	Z	19	46.85	155	27.50	3396	.31	.17	3.7	L4	D
HUMUULA SHEEP ST	HSS	Z	19	36.31	155	29.13	2445	.20	.35	5.3	L4	D
HOT CAVES	HTC	Z	19	14.33	155	24.02	361	-.16	-.07	.0	E4	
HUALALAI	HUA	Z	19	41.25	155	50.32	2189	.67	.38	3.6	L4	D
HEIHEIAHULU	HUL	Z	19	25.13	154	58.72	369	-.17	-.16	1.6	E4	DS
HEIHEIAHULU	HULE	E	19	25.13	154	58.72	369	-.17	-.16	.0	E4	
HEIHEIAHULU	HULN	N	19	25.13	154	58.72	369	-.17	-.16	.0	L4	
KAAPUNA	KAA	Z	19	15.98	155	52.28	524	-.12	-.01	2.8	L4	
KAENA POINT	KAE	Z	19	17.35	155	7.95	37	-.01	.06	1.4	L4	D
KAHAUALEA	KAH	Z	19	24.58	155	4.36	625	-.25	-.30	.0	L4	D
KAOIKI FAULTS	KFA	Z	19	25.26	155	25.14	1579	.13	.17	.0	E	H
KAOIKI FAULTS	KFB	Z	19	25.26	155	25.14	1579	.13	.17	.0	TE	$
KAHUKU	KHU	Z	19	14.90	155	37.10	1939	.03	-.03	2.7	E4	D
KANEKII	KII	Z	19	30.56	155	45.90	1841	.15	.37	2.9	L4	D
KEANAKOLU	KKU	Z	19	53.39	155	20.58	1863	.68	.24	1.2	L4	D
PUU KALIU	KLU	Z	19	27.48	154	55.26	271	-.17	-.30	2.9	L4	D
KAMOAMOA	KMM	Z	19	23.47	155	6.98	750	-.25	-.30	2.4	L4	D
KAMOAMOA EAST-WEK	MME	E	19	23.47	155	6.98	750	-.25	-.30	.0	L4	
KAMOAMOA NORTH-SK	MMN	N	19	23.47	155	6.98	750	-.25	-.30	.0	L4	
KOHALA	KOH	Z	20	7.69	155	46.77	1166	-.03	-.17	1.5	L4	D
KOHALA	KOHE	E	20	7.69	155	46.77	1166	-.03	-.17	2.2	L4	
KOHALA	KOHN	N	20	7.69	155	46.77	1166	-.03	-.17	2.2	L4	
KIPUKA NENE	KPN	Z	19	20.10	155	17.40	924	-.11	-.08	3.5	E4	D
KAPOHO	KPO	Z	19	30.02	154	50.51	134	-.09	-.24	.0	L4	DH
KALALUA	LUA	Z	19	24.55	155	4.25	622	-.25	-.30	2.5	L4	DH
MAUNA LOA	MLO	Z	19	29.80	155	23.30	2010	.03	.08	5.8	L4	SD
MAUNA LOA	MLOE	E	19	29.80	155	23.30	2010	.03	.08	.0	L4	D
MAUNA LOA	MLON	N	19	29.80	155	23.30	2010	.03	.08	1.5	L4	
MAUNA LOA X	MLX	Z	19	27.60	155	20.70	1475	.06	.15	3.0	L4	
MOKUAWEOWEO	MOK	Z	19	29.28	155	35.98	4104	.15	.16	5.5	L4	DH
MAKAOPUHI	MPR	Z	19	22.07	155	9.85	881	-.17	-.20	2.4	L4	D
MOUNTAIN VIEW	MTV	Z	19	30.25	155	3.75	409	-.02	.01	5.0	E4	D
NATIONAL GUARD	NAG	Z	19	42.12	155	1.72	18	.54	.30	4.5	E4	D
NORTH PIT	NPT	Z	19	24.90	155	17.00	1115	-.30	-.18	3.0	E4	SD
NORTH PIT	NPTE	E	19	24.90	155	17.00	1115	-.30	-.18	.0	E4	
NORTH PIT	NPTN	N	19	24.90	155	17.00	1115	-.30	-.18	.0	E4	
OUTLET	OTL	Z	19	23.38	155	16.94	1038	-.19	-.18	4.9	L4	
PAUAHI	PAU	Z	19	22.62	155	13.10	994	-.21	-.24	2.4	L4	SD
PAUAHI	PAUE	E	19	22.62	155	13.10	994	-.21	-.24	.0	L4	

Table 1 (continued)

PAUAHI	PAUN	N	19 22.62	155 13.10	994	-.21	-.24	.0	L4	
PUU ULAULA	PLA	Z	19 32.00	155 27.67	2992	-.03	.13	5.4	L	D
POHOIKI	POI	Z	19 27.42	154 51.22	16	-.09	-.24	.0	L4	
POLIOKEAWE PALI	POL	Z	19 17.02	155 13.47	169	-.02	.03	2.8	E4	D
PUU PILI	PPL	Z	19 9.50	155 27.87	35	-.15	-.15	1.4	E4	D
PUU KAMOAMOA	PUK	Z	19 23.00	155 6.25	704	-.25	-.30	.9	L4	D
RIM	RIM	Z	19 23.90	155 16.60	1128	-.21	-.13	.0	L4	
SOUTH POINT	SPT	Z	18 58.91	155 39.92	244	-.17	-.22	2.8	L4	D
SOUTH POINT	SPTE	E	18 58.91	155 39.92	244	-.17	-.22	.0	L4	
SOUTH POINT	SPTN	N	18 58.91	155 39.92	244	-.17	-.22	.0	L4	
SOUTHWEST RIFT	SWR	Z	19 27.26	155 36.30	4048	.01	.04	5.6	E4	D
TRAIL	TRA	Z	19 24.91	155 32.96	3207	.00	.00	.0	L4	0
UWEKAHUNA	UEE	E	19 25.40	155 17.60	1240	-.21	.00	1.5	E	
UWEKAHUNA	UEN	N	19 25.40	155 17.60	1240	-.21	.00	1.5	E	
UWEKAHUNA	UEZ	Z	19 25.40	155 17.60	1240	-.21	.00	1.5	E	
UWEKAHUNA	USE	E	19 25.40	155 17.60	1240	-.21	.00	1.0	S	P
UWEKAHUNA	USZ	Z	19 25.40	155 17.60	1240	-.21	.00	1.0	S	P
WAHAULA	WHA	Z	19 19.90	155 2.92	29	-.10	-.04	1.5	E4	D
WILKES CAMP	WIL	Z	19 28.15	155 35.02	4037	.22	.17	2.6	E4	D
WEATHER OBSERVAT	WOB	Z	19 32.31	155 35.01	3396	.00	.00	.0	E4	
WOOD VALLEY	WOO	Z	19 15.08	155 30.12	909	-.15	-.06	4.6	E4	D

Table 2. Seismic Instrumentation Types

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

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

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

b) Preamp/VCO - USGS/OEVE Model J302 or J402 (4) voltage controlled oscillator. Three db points for bandpass filter at 0.1 Hz and 30 Hz. Signals are transmitted on audio FM carrier over cable or FM radio link to HVO.

Type 3. (Code H1) Consists of:
Electrotech EV-17 or observatory-built 0.8 sec. period moving coil seismometer with HVO-built solid state seismic preamplifier, galvanometer driver, and 2 Hz galvanometer. Peak magnification approximately 40,000 at 4 Hz.

Type 4. (Code S) Consists of:
Sprengnether short period vertical and horizontal seismometers (E-W) with 1.5 sec. galvanometers, coupling factor = 0.25, 2X critically damped. Peak magnification approximately 1500X at 2 Hz.

Type 2 instruments have been discontinued.

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

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

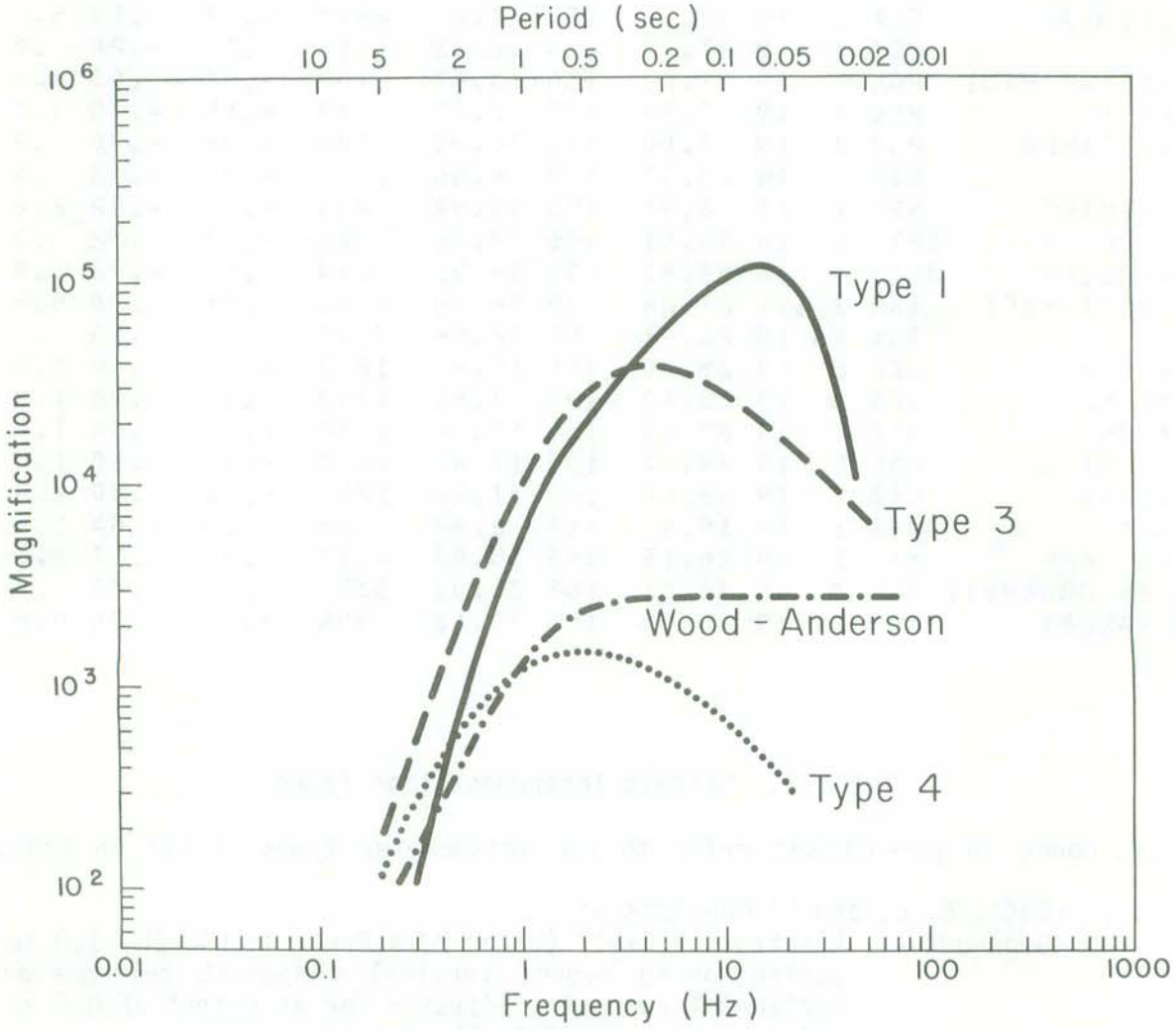

Figure 4. System response curves for the Wood-Anderson torsion seismograph and for the 3 different types of seismometers in use by the Hawaiian Volcano Observatory. Types 3 and 4 are electro-mechanical seismographs recorded optically on photographic paper. Type 1 is the standard OEVE seismometer recorded 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 reponse for an individual station.

SEISMIC DATA PROCESSING

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

The crustal model used is specified by velocities at 4 depth points. Velocity at any depth is given by linear interpolation between points and uses a homogeneous half-space 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. Delay model 1 is used for events on Kilauea and its south flank, and delay model 2 applies to the rest of the island and offshore earthquakes. The delay models are in fact separated by a circle of radius 34 km centered at 19°22'N and 155°10'W.

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

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

The equations used in magnitude determination are:

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

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

SEISMIC SUMMARY

The emphasis in both station coverage and detailed data analysis is on the highly active south half of the island of Hawaii. Hundreds of earthquakes too small to locate are counted daily, and the set of located earthquakes in the Kilauea region is nearly complete above magnitude about 2.0. Many smaller events are located also. Substantial effort is made to locate earthquakes elsewhere on the island and within about 150 km of the island. Such coverage cannot be as complete as on the south flank, but nearly all events above magnitude 3.0 to 3.5 are located.

Data presented in the seismic summary is in four parts. Table 3 gives duration of harmonic tremor and numbers of earthquakes (most too small to locate) from several source regions around Kilauea. The source region is determined visually from signal character and pattern of arrival times at key stations. Maps showing computer located epicenters are given in Figures 8-13. The epicenter maps are on different scales, and show both all located earthquakes and large events only.

The list of computer locations constitutes the bulk of this summary, and is given in Table 5. Each earthquake in the list is assigned a three-letter code based on its location and depth. Figures 4-7 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 imply an overlap, precedence is given according to Figures 4-7. Table 6 relists the events in Table 5 for which either duration or amplitude magnitude is 3.0 or larger. It is felt that this list is a more objective measure of large earthquakes than a list of felt earthquakes.

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

Earthquake categories are:

1) Kilauea summit, short period caldera: shallow earthquakes beneath the caldera.
2) Kilauea summit, long period caldera: earthquakes characterized by low frequency signatures, often originating 5-10 km below the caldera.
3) Kilauea summit 30 km: deep earthquakes about 30 km beneath the summit region.
4) Kaoiki and southwest rift: earthquakes beneath the southwest rift of Kilauea, western parts of the Koae faults and adjacent Kaoiki fault system.
5) Upper east rift: earthquakes in the upper and middle east rift zone, the adjacent parts of the south flank, and eastern parts of the Koae faults.
6) Lower east rift: earthquakes in the lower east rift zone and adjacent parts of the south flank.
7) Offshore PPL: earthquakes from offshore areas south of the Puu Pili station, including Loihi seamount.
8) Mauna Loa long period: low frequency events near Mauna Loa summit.
9) Mauna Loa short period: shallow earthquakes in the Mauna Loa caldera region.

Tremor is separated into four categories: shallow, intermediate and deep Kilauea, and Mauna Loa. Depth is inferred on the basis of relative amplitudes on seismographs.

	KILAUEA SUMMIT			KILAUEA FLANK				MAUNA LOA		TREMOR (MINUTES)		
DATE 1983	SHORT PER. CALDERA	LONG PER.	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.	KILAUEA SHAL.	KILAUEA INT.	KILAUEA DEEP	MAUNA LOA
JAN 1	29	1		23	1963	2			2	480			
2	73	1		30	5977	7				1440			
3	11			38	1348	4			2	1440			
4	10		3	40	2709					1440			
5	326	23		39	1345	2			1	1440			
6	129			29	1598	4			2	1440			
7	88		1	20	639	2		1	1	1440			
8	3		1	27	266	2			1	1440			
9	14	18	3	24	186	32			4	1440			
10	5			30	137	2		1	5	1440			
11				24	184	3		1	3	1440			
12	4		2	44	221	2		2	3	1440		35	
13		2		30	203	3			5	1440		40	
14			2	30	102	2			10	1440		4	
15	1	4	1	41	147	2		1	5	1440			
16	3			35	206	7			14	1440			
17	3	6		30	189	10			17	1440			
18	2		1	25	232	5		1	4	1440			
19	1		1	17	298	6			3	1440			
20	3	2		33	177	4			1	1440			
21	4		3	20	216	25			1	1440			
22	8	1	2	27	189	14				1440			
23	10	2		24	227					1440			
24	7	1		33	194	8				1440	2	4	
25	13	8		34	203	1			1	1440			
26	14	26		35	166	1			1	1440			
27	12	1	2	35	158			1	12	1440		5	
28	13	10		26	187	3			1	1440			
29	7	8	1	34	185	1			2	1440		28	
30	16	11	1	40	228	4			1	1440			
31	9	2	1	9	163	1				1440			
FEB 1	12			20	149	20			4	1440			
2	13			39	162	6			2	1440			
3	19		1	29	102	6			5	1440			
4	15	4		19	97	8	3	2	5	1440			
5	9	3		19	123	1			6	1440			
6	18	2	1	28	101	1			15	1440		19	
7	16	1	10	17	97			1	9	1440			
8	18	69		34	146	4			17	1440			
9	19	4	2	34	140	5			3	1440			
10	17	1		17	89	5			10	1440			
11	10	3	2	51	96	18				1440			
12	5	4	2	71	83	8			1	1440			
13	16		2	37	110	4		1	1	1440		30	
14	15	8		29	114	2			8	1440		2	

	KILAUEA SUMMIT			KILAUEA FLANK				MAUNA LOA		TREMOR (MINUTES)		
DATE 1983	SHORT PER. CALDERA	LONG PER.	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.	KILAUEA SHAL.	INT. DEEP	MAUNA LOA
FEB 15	18			30	118	4			1	1440		
16	14	1	5	34	122	9			4	1440		
17	14	1		35	57	12			1	1440		
18	12		1	25	112	5			5	1440		
19	34	1		36	105	6		1	7	1440		6
20	26		1	23	92	8		1	2	1440		
21	28	1	1	25	96	5			4	1440		2
22	23	16		28	85	13			9	1440		
23	18		1	30	75	17		1	6	1440		
24	30			31	87	29			16	1440		
25	12			67	59	18		1	11	1440		
26	9			74	58	16			2	1440		
27	19	1	1	20	70	5			9	1440		
28	13			19	76	8		1	471	1440		
MAR 1	21	3	3	30	72	7			404	1440		
2	20	2	1	27	62	9		2	478	1440		4
3	5	2		19	69	22			129	1440		
4	5		2	45	111	6			91	1440		
5	18			23	105	15		1	66	1440		
6	11	8	2	18	111	1			41	1440		
7	14	3	1	32	87	14		1	28	1440		15
8	28	8	1	31	123	18			31	1440		
9	24	6		27	115	21			33	1440	29	
10	14			40	105	5			34	1440	4	
11	19	4		29	106	3		3	10	1440	41	
12	29	11		43	118	3		1	15	1440	6	
13	23	3	5	35	103	1			23	1440		
14	17	1		22	100	20			32	1440		
15	33	8		28	65	16			24	1440	5	
16	23	6		26	94	17		9	25	1440		6
17	13	2	3	22	75	2		7	26	1440	10	
18	18	7	3	51	90	16		2	12	1440		
19	22	14	1	20	93	28		2	25	1440		
20	21	10	2	74	397			1	15	1440		3
21	29	3	3	55	167	21		1	20	1440		
22	21	1		37	172	16		1	18	1440		
23	24	2		30	175	21			30	1440		3
24	62	14	1	39	101	2		6	6	1440		
25	28	6		35	115	1			53	1440		
26	20		1	20	140	5		1	12	1440		
27	13	1	1	32	93	5			7	1440	7	
28	12	3	1	27	72	4		3	13	1440	52	
29	14			30	61	1			13	1440		
30	8			25	61				6	1440		
31	15	1	1	32	55	1			7	1440		

	KILAUEA SUMMIT			KILAUEA FLANK			MAUNA LOA		TREMOR (MINUTES)		
DATE 1983	SHORT PER.	LONG PER. CALDERA	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.	KILAUEA INT. SHAL.	KILAUEA INT. DEEP	MAUNA LOA DEEP
APR 1	12	2	1	27	51				12	1440		
2	32		5	34	45	4			10	1440		
3	14	6		19	52	7		1	13	1440		
4	37	13	1	23	42	8		6	25	1440		
5	53	13		27	40	11			33	1440	17	3 15
6	42	10		26	51	2			28	1440		
7	48	3	1	34	28			1	18	1440		
8	40			15	69	10			21	1440		
9	10	104	1	34	114	10			27	1440		
10	12	32	2	20	110	10		6	21	1440	20	
11	11	13	2	27	198	16			40	1440	2	
12	23	10		39	285	12		1	47	1440		4
13	17			20	296	4		11	12	1440		
14	13	8		39	222	5		5		1440	5	
15	17	7		17	250	10		4	12	1440		
16	12	2		34	240	9		2	3	1440		
17	14	1		20	409	14			8	1440		
18	16	3	1	21	396	10		2	8	1440		4
19	27	2	2	35	325	14		1	15	1440		
20	17	1	1	27	195	6		2	9	1440		
21	15	7	2	35	312	4			3	1440	4	
22	16		1	20	448	4			8	1440		
23	15			21	432	6		2	2	1440	23	
24	35	2		29	260	7		4	11	1440		
25	15			20	269	11			7	1440	3	
26	23			21	271	13			7	1440		
27	17	2		13	309	9		1	8	1440		
28	13	3		34	110	4				1440		2
29	23	2		37	221	1		1	5	1440		
30	22	2	1	36	214	7		2	26	1440		
MAY 1	28	3		30	149	7		1	46	1440		
2	20		2	25	165	5			5	1440		5
3	5	3	2	27	134				13	1440	27	
4	37	4		23	202	9			34	1440		3
5	34	3	2	20	149	6			9	1440	5	
6	34	1		20	264	12			12	1440		
7	30	1	1	30	258	11			4	1440		
8	30	4	1	29	164	4			7	1440		
9	36	3		12	126	5			4	1440		4
10	48	1	1	23	196	9			12	1440		16
11	36	2	1	23	247	13			11	1440		
12	34	3	1	34	139	1		1	4	1440	6	
13	42		2	31	231	10		2	13	1440		
14	34			26	242	7			11	1440	28	
15	39	4		17	144	6			6	1440	4	

	KILAUEA SUMMIT				KILAUEA FLANK				MAUNA LOA		TREMOR (MINUTES)		
DATE 1983	SHORT PER.	LONG PER.	30 CALDERA	KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.	KILAUEA SHAL.	KILAUEA INT.	KILAUEA DEEP	MAUNA LOA
MAY16	46		3		42	228	9			22	T1440			
17	42		3	2	29	149	6		2	22	T1440		4	
18	59		3		29	210	16			57	T1440		3	
19	45				31	175	5			23	T1440		10	
20	39		1	1	40	217	9		1	45	T1440			
21	35				23	234	11		3	40	T1440			43
22	38		1	1	22	129	5			13	T1440		7	
23	65				21	189	10		1	23	T1440			
24	71		5		17	222	13			35	T1440			
25	59		2		24	208	12			7	T1440			
26	103		37	2	11	150	2			9	T1440			
27	58		2	2	23	156	8			2	T1440		5	
28	34			1	25	192	10			8	T1440			
29	26		1	2	24	181	8			6	T1440	4		
30	39			1	27	243	14		3	10	T1440		7	
31	37		1		27	203	2		1	14	T1440			
JUN 1	51		3		35	184	17		1	10	T1440		6	
2	45		1	3	33	127	4		1	7	T1440			
3	73		2		32	176	6		1	36	T1440		9	
4	119		5		25	197	14		10	54	T1440			
5	56			2	26	132	6		3	88	T1440		3	
6	41		1	3	24	136	5		1	29	T1440			
7	47			1	19	184	6		2	37	T1440			
8	35		1	1	20	159	7		2	44	T1440			
9	31		11	1	7	131	2	1	5	88	T1440			
10	63		2		19	164	14		1	101	T1440			
11	110		1		27	168	11		1	99	T1440			
12	52			3	25	141	5			60	T1440			
13	48				27	40	11		1	52	T1440			
14	25		1		25	36	12		2	47	T1440		4	
15	30				24	48	8			56	T1440			
16	16				16	23	12		1	65	T1440		7	
17	15		2	2	50	92	3		2	21	T1440			
18	15				33	171	6			21	T1440			
19	27				21	201	9		1	24	T1440		16	3
20	21		2		20	262	4		3	15	T1440			
21	26			1	16	257	11			27	T1440			
22	34		3		14	353	2			22	T1440			
23	42		2		15	302	5		1	10	T1440			
24	50		1	1	21	315	10		3	12	T1440			
25	75		2	1	21	379	13			10	T1440		15	
26	67		3	2	33	277	7		5	12	T1440			
27	97				18	394	10		2	23	T1440			
28	72				22	448	6		6	65	T1440			2
29	29		1	1	32	69	2		2	48	T1440			

	KILAUEA SUMMIT				KILAUEA FLANK				MAUNA LOA		TREMOR (MINUTES)		
DATE 1983	SHORT PER. CALDERA	LONG PER.		30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.	KILAUEA SHAL.	KILAUEA INT.	KILAUEA DEEP	MAUNA LOA
JUN30	26				24	16	7		7	114	1440			
JUL 1	27				15	21	6		9	164	1440			
2	41				23	23	4		2	99	1440			
3	16	1	1		35	563	5			13	1440			
4	17				27	557	8		5	38	1440			
5	15				11	980	2			46	1440			
6	22	2			22	1286	7			34	1440			
7	21	1			21	785	4			75	1440			
8	24	5	2		21	1226	7			31	1440			
9	30	7			18	1564	10			23	1440			
10	40	1	1		29	1058	7			14	1440			
11	37	4	1		19	1320	6		5	26	1440			11
12	59	4			15	1825	8			15	1440			
13	49	5	1		14	1754	6		12	11	1440		19	
14	50				27	966	6		34	21	1440			
15	63	9			13	1750	4		2		1440			
16	98				17	1920	2		5	22	1440			
17	67	1	4		18	1259	5		19	14	1440			
18	88	1			17	1169	8		16	15	1440			
19	94	2			36	1183	18			16	1440			
20	101	11			24	1071	15		3	8	1440		6	
21	76		1		14	606	9		4	10	1440			
22	84				22	111	4			17	1440	4		
23	50	3			11	37			1	14	1440			39
24	83	3			19	23	6		4	3	1440			
25	39	162			17	458	6		3	12	1440		5	
26	25	8			31	756	4			7	1440			
27	22				15	757	9			11	1440			
28	18				32	606	9		4	15	1440			
29	21				20	697	13		4	9	1440		34	
30	19	4	1		19	638	5		1	17	1440		28	
31	27	6	2		28	552	10		1	13	1440			
AUG 1	34	4			17	636	9		1	26	1440			
2	36	8	1		16	581	8		1	57	1440			
3	53	3			14	608	9		1	81	1440			
4	34	2			8	338	8		1	23	1440			
5	51	7			16	410	7		1	45	1440			
6	75	8			18	415	4		1	17	1440			
7	88	6			40	343	11		4	22	1440			
8	119	9	2		20	385	13			22	1440			
9	94	8			31	424	17			31	1440		16	
10	81	5	2		25	395	14		4	19	1440		27	
11	54	10			50	255	8	2	2	36	1440			
12	87	4	1		18	195	11		1	17	1440			
13	149	1	1		19	258	14		1	38	1440			

	KILAUEA SUMMIT			KILAUEA FLANK				MAUNA LOA		TREMOR (MINUTES)		
DATE 1983	SHORT PER. CALDERA	LONG PER.	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.		KILAUEA INT. SHAL.	KILAUEA DEEP	MAUNA LOA
AUG14	104	1		17	214	7			25	1440			
15	44	26		12	69	4	3		42	1440			
16	95	5		17	45				64	1440		6	
17	49	2		14	343	8			83	1440			
18	18	1		15	394	10		2	69	1440			
19	17	1	1	16	518	13		1	89	1440			
20	24	4	2	21	573	4		1	90	1440		16	
21	29	2	1	24	680	10			39	1440			
22	27	14		23	781	11			61	1440			
23	43	5		21	734	13		5	64	1440		6	
24	32	3		18	733	12			37	1440			
25	29		2	32	621	5			52	1440			
26	50	3	1	6	428	9		3	66	1440		10	
27	47	1		11	324	8		2	56	1440			
28	55	2	3	41	540	6		9	50	1440			
29	76	2		21	712	13		1	66	1440		10	
30	80	2	4	18	720	8		3	44	1440			
31	83	3		21	790	14			71	1440			
SEP 1	103		3	19	366	9		7	62	1440			
2	85	1	1	26	490	14		12	119	1440			
3	11	1		19	433	2		11	226	1440			
4	121	3		17	306	9		3	156	1440			
5	129	4		28	463	9		4	100	1440			
6	41	1429	2	15	38			2	145	1440			
7	15	1837		16	444	8			40	1440			
8	32		1	26	503	7		1	74	1440		5	
9	19	4	1	12	716	10		2	119	1440			
10	36	1		20	524	6		4	94	1440		10	
11	30		1	37	398	6		9	238	1440			
12	49	1		15	334	11		4	339	1440		8	
13	60	2		514	5			10	682	1440			
14	71		1	11	353	4		15	613	1440			
15	35	1		27	97	6		13	355	1440			
16	86	1		23	33	14		17	454	1440			
17	45	354	1	17	401	23		2	222	1440			
18	38	1	1	17	772	10		10	220	1440			
19	26	2	1	16	498	3		6	195	1440			
20	23	4		29	644	16		11	220	1440			
21	23			12	458	16		3	196	1440			
22	39	2		17	344	9		10	134	1440		28	
23	49	1	1	13	453	9		4	115	1440			
24	58	2		20	380	14		2	135	1440			
25	57	2	1	15	342	7			86	1440			
26	79	5		21	457	8			94	1440			
27	77	3	1	12	359	12			123	1440		4	

	KILAUEA SUMMIT			KILAUEA FLANK				MAUNA LOA		TREMOR (MINUTES)		
DATE 1983	SHORT PER. CALDERA	LONG PER. 30 KM		KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.	KILAUEA INT. SHAL.	KILAUEA DEEP	MAUNA LOA
SEP28	92	1		12	310	7		3	115	1440		
29	82		3	23	228				125	1440		
30	97	3	2	12	289	6		1	213	1440	22	
OCT 1	97		1	22	288	3		5	178	1440		
2	124	1		23	317	6		2	126	1440		
3	154	5		10	223	16		4	96	1440	23	
4	123	2		19	153	3		8	48	1440		
5	47	38	32	36	34					1440		
6	64			15	23	1		10	134	1440		
7	60	331	1	20	117	4		15	71	1440		
8	23	13		10	241	6		23	54	1440	32	
9	18	5		21	241	8		13	42	1440		
10	24	2		24	330	5		6	23	1440		
11	30	4		15	364	8		6	65	1440		
12	35	5	1	19	372	4		25	98	1440	22	
13	43	5	3	10	359	12		11	183	1440	14	
14	34	5		15	300	5		8	89	1440		
15	39	4	1	18	183	7		6	43	1440		
16	67	8	1	32	243	5		7		1440	1	
17	79	5	2	16	291	7		7	35	1440	2	
18	90	1	2	22	346	13		13	24	1440		
19	111	1		27	315	19		14	48	1440	23	
20	71		1	45	443	18		9	49	1440		
21	100	2	1	9	249	11		12	32	1440		
22	66		2	15	157	6		1	7	1440	10	
23	130		3	17	232	12			14	1440	34	
24	186		2	16	253	6		1	52	1440	6	
25	101			11	150	12		8	151	1440		
26	160	21	2	158	10			1	31	1440		
27	198			41	239	11		5	17	1440		
28	141	1		15	219	14		26	117	1440		
29	142	2		11	163	8		13	55	1440		
30	131			39	221	6		6	35	1440		
31	103		2	12	151	16		4	37	1440		
NOV 1	113	1		17	305	5		5	35	1440	4	
2	133	2	1	18	323	18		45	43	1440		
3	170	1	1	20	390	8		15	40	1440		
4	196	4	1	15	290	9		10	34	1440	12 3	
5	128	1	1	13	155	10		10	23	1440		
6	174	67		24	33	11		9	52	1440		
7	16	283		13	57	17			52	1440		
8	30	897	1	18	772	6		1	31	1440		
9	29	185		15	402	6			33	1440		
10	28	174	1	16	388	17		5	44	1440		
11	24	12		20	161	10			28	1440		

	KILAUEA SUMMIT			KILAUEA FLANK				MAUNA LOA TREMOR (MINUTES)					
DATE 1983	SHORT PER. CALDERA	LONG PER.	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.		KILAUEA INT. SHAL.	KILAUEA DEEP	MAUNA LOA DEEP
NOV12	29	9	3	24	225	19		3	39	T1440			
13	27	1	4	21	274	4			44	T1440			
14	30	5	2	17	301	5			31	T1440		29	
15	38		1	15	243	11			56	T1440			
16		1		2191	252	28			26	T1440			
17	70		28	1357	220	2			42	T1440			3
18	56		67	1144	145			8	48	T1440			
19	86	3	22	958	149				31	T1440		4	
20	113	2	103	1178	344	9		2	30	T1440			
21	60	1	27	641	282	1		1	22	T1440			
22	43	7	64	831	265	6		3	18	T1440		3	
23	17	8	78	781	267	6		4	9	T1440			
24	457		14	608	267	1			96	T1440		41	
25	52	3	10	587	227	5			33	T1440		36	
26	38		23	603	235	6		1	33	T1440			11
27	27	2	65	755	202	13		1	13	T1440			
28	35	1	78	524	125	10		1	5	T1440		6	
29	21		67	450	132	22			2	T1440			
30	20	220	26	415	18	10			6	T1440			
DEC 1	9	10	3	267	521	5		5	16	T1440			2
2	4		31	411	558	6		2	6	T1440	1440		
3	17	697	51	450	607	5		2	8	T1440			
4	8	198	35	299	377	8		1	10	T1440			
5	24	10	64	405	407	7		4	14	T1440		18	
6	20	4	30	348	383	2			45	T1440		4	
7	16	3	35	355	393	9		5	8	T1440			
8	18	1	20	279	317	6		3	20	T1440			
9	26	6	27	363	198	20		9	20	T1440			
10	15	3	42	374	298	16		8	8	T1440		40	
11	18	2	44	392	382	12		2	13	T1440			
12	20	8	35	319	377	7		1	17	T1440			
13	28	12	37	275	345	6		4	26	T1440		13	
14	20	10	3	222	339			1	32	T1440	4		
15	19	3	3	199	421	3		2	41	T1440		36	
16	27	1	7	181	407	4		3	11	T1440			
17	23	1	5	263	435	7		1	36	T1440		21	
18	40	3	152	261	398	4		2	10	T1440			
19	33	3	26	191	366	9				T1440			
20	48	2	17	166	395	6		2	8	T1440			
21	23	2	23	164	386	3		1	4	T1440			
22	52	1	10	176	509	5		1	32	T1440			
23	48	3	25	155	261	12		3	36	T1440			
24	61		31	153	203	9		3	11	T1440			
25	169	6	16	130	171	3			5	T1440		10	
26	93	3	26	173	292	6			12	T1440		7	

	KILAUEA SUMMIT			KILAUEA FLANK				MAUNA LOA		TREMOR (MINUTES)			
DATE 1985	SHORT PER. CALDERA	LONG PER.	30 KM	KAO. & SW RIFT	UP. EAST RIFT	LOW. EAST RIFT	OFF-SHORE PPL	LONG PER.	SHORT PER.	KILAUEA SHAL.	KILAUEA INT.	KILAUEA DEEP	MAUNA LOA
DEC27	56		19	157	403	11		6	18	1440			
28	50	4	19	178	460	11		5	13	1440			
29	55	25		141	418	7		3	47	1440			
30	48		7	164	308	6		16	26	1440			
31	54	36		166	1440	15		16	44	1440		35	10

Table 4. Coordinates of named earthquake regions.

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

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

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

--Deep:
21 DEP - Deep Kilauea (>13 km) (below regions 1-13, 17-19)
22 DLS - Deep lower SW rift (>13 km) (below region 14)
23 DML - Deep Mauna Loa (>13 km) (below regions 15, 20)

--Outer regions, all depths:
24 LOI - Loihi (all depths)
25 KON - South Kona (all depths)
26 HUA - Hualalai (all depths)
27 KOH - Kohala (all depths)
28 KEA - Mauna Kea (all depths)
29 HIL - Hilo (all depths)
30 DIS - Distant, everywhere else

Table 4 (continued)

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

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

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

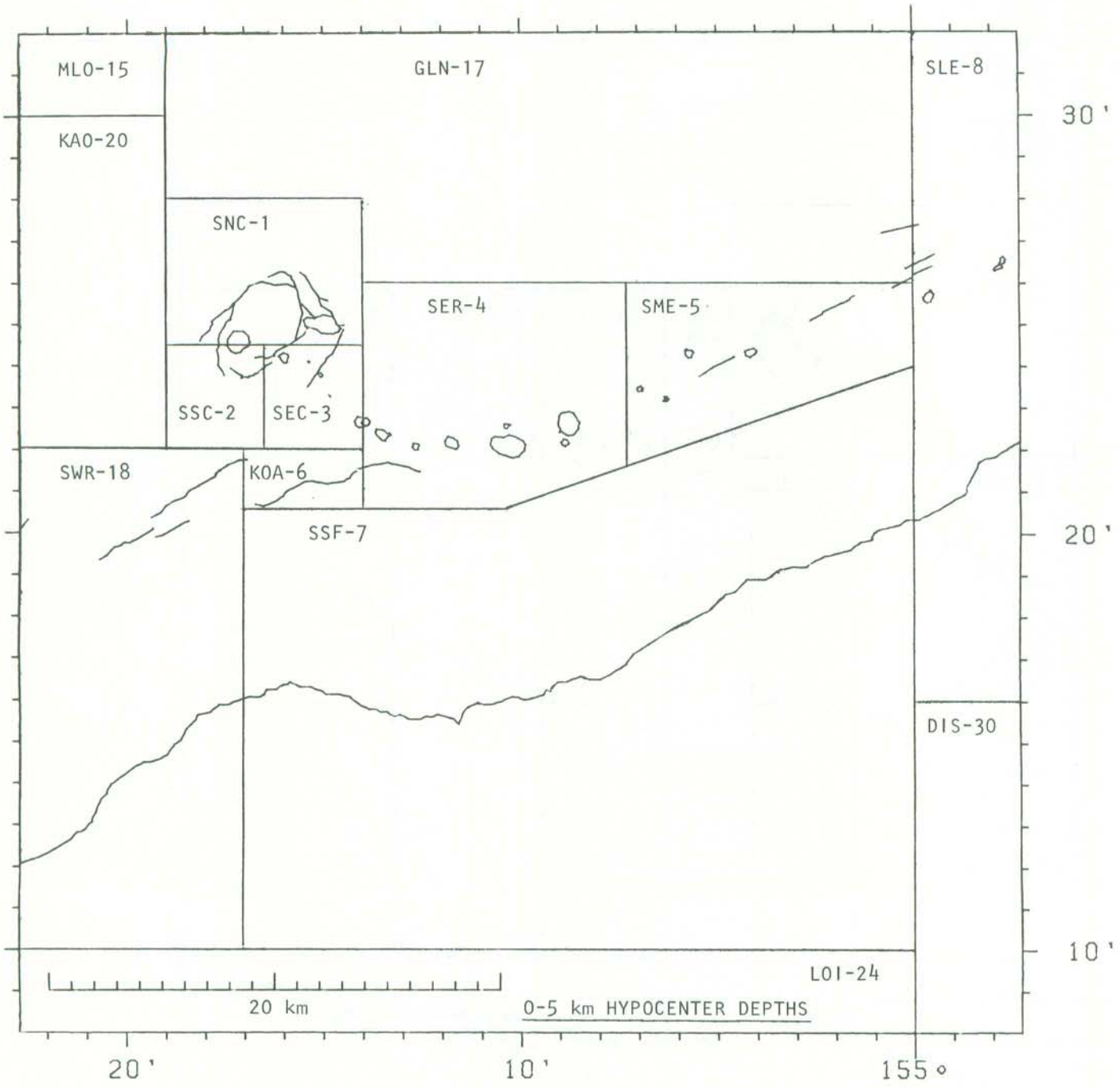

Figure 6. Earthquake classification, intermediate 5-13 km Kilauea and east flank Mauna Loa.

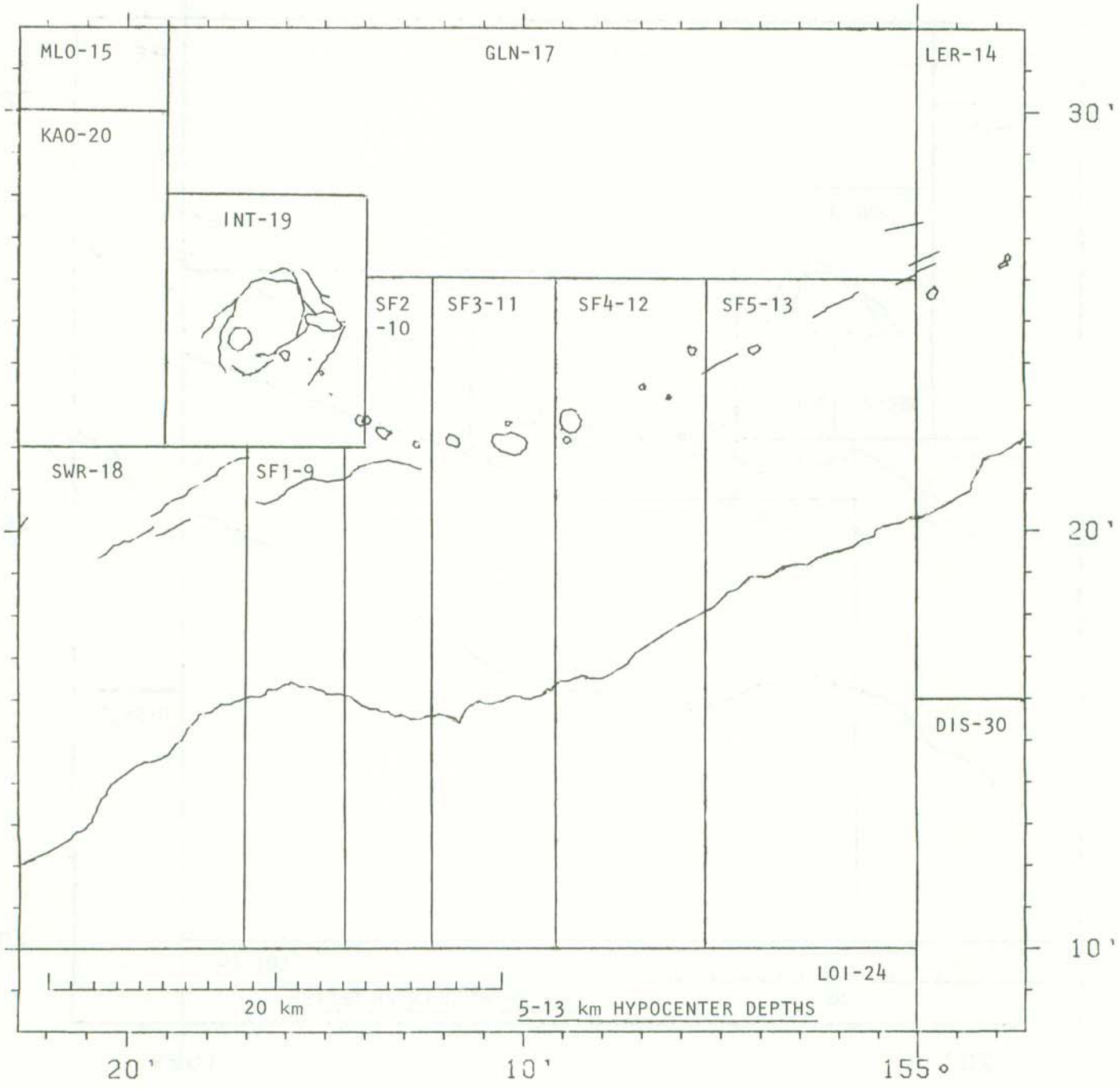

Figure 7. Earthquake classification, crustal 0-13 km deep island of Hawaii.

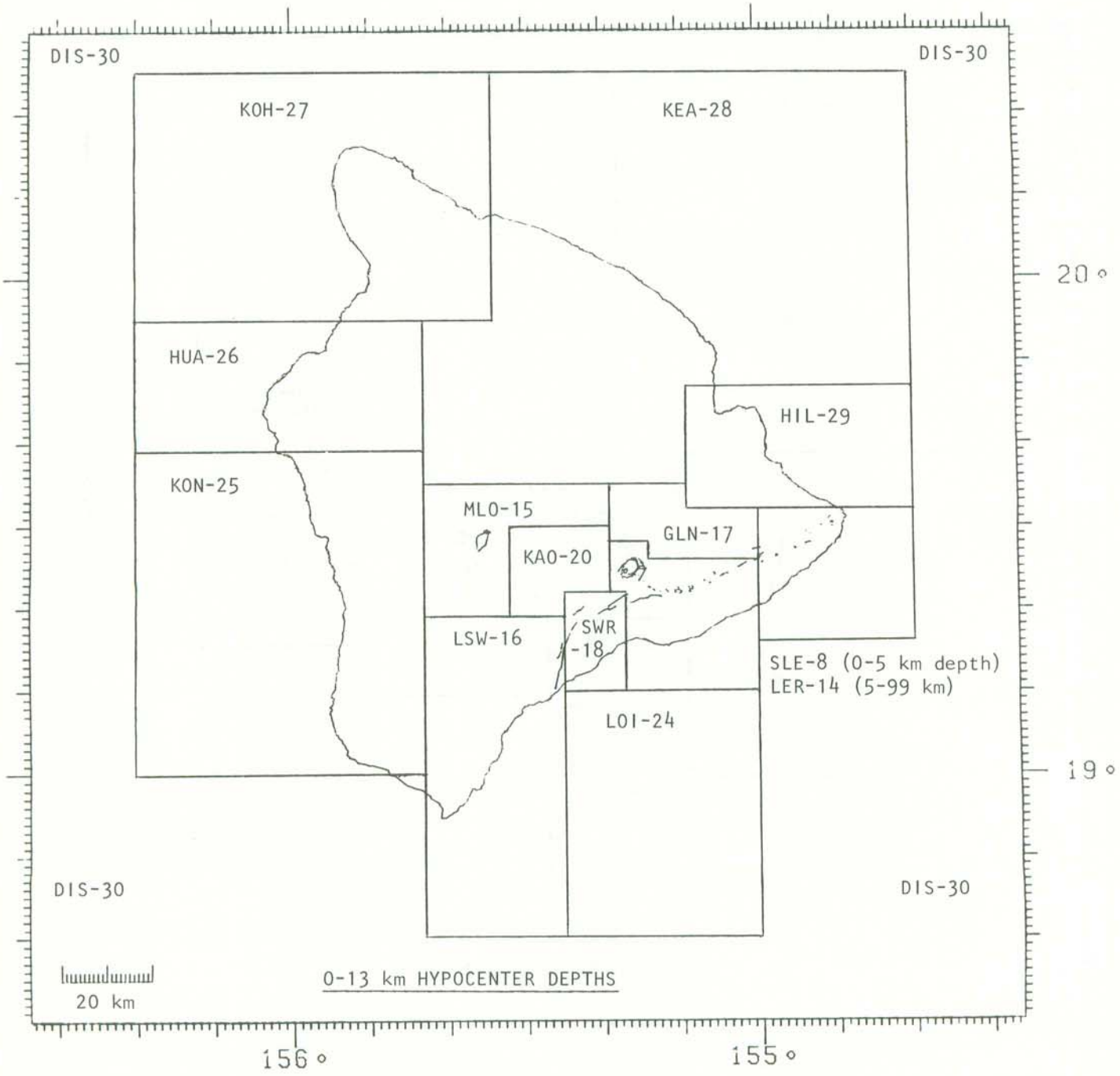

Figure 8. Earthquake classification, mantle greater than 13 km deep island of Hawaii.

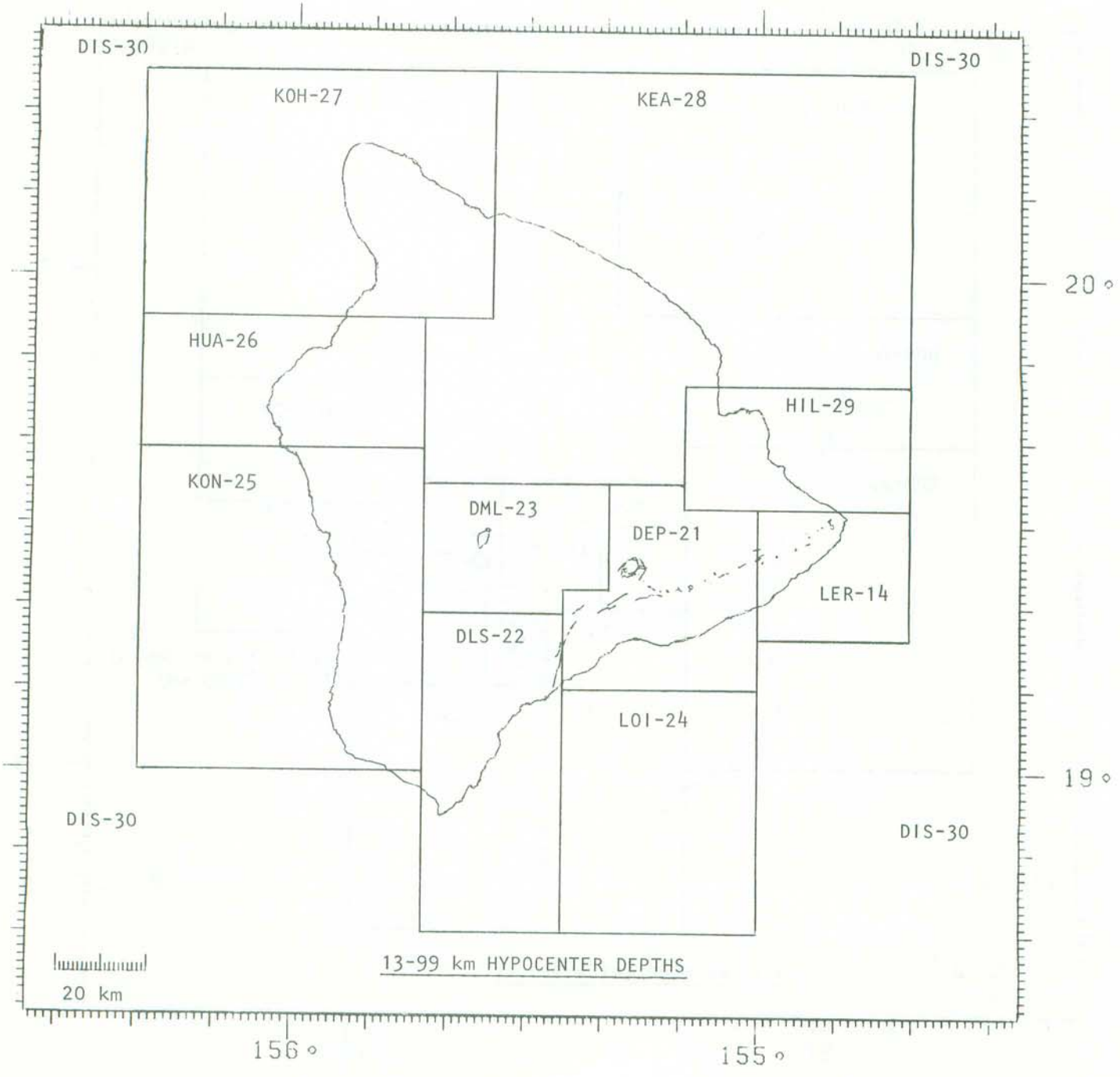

Figure 9

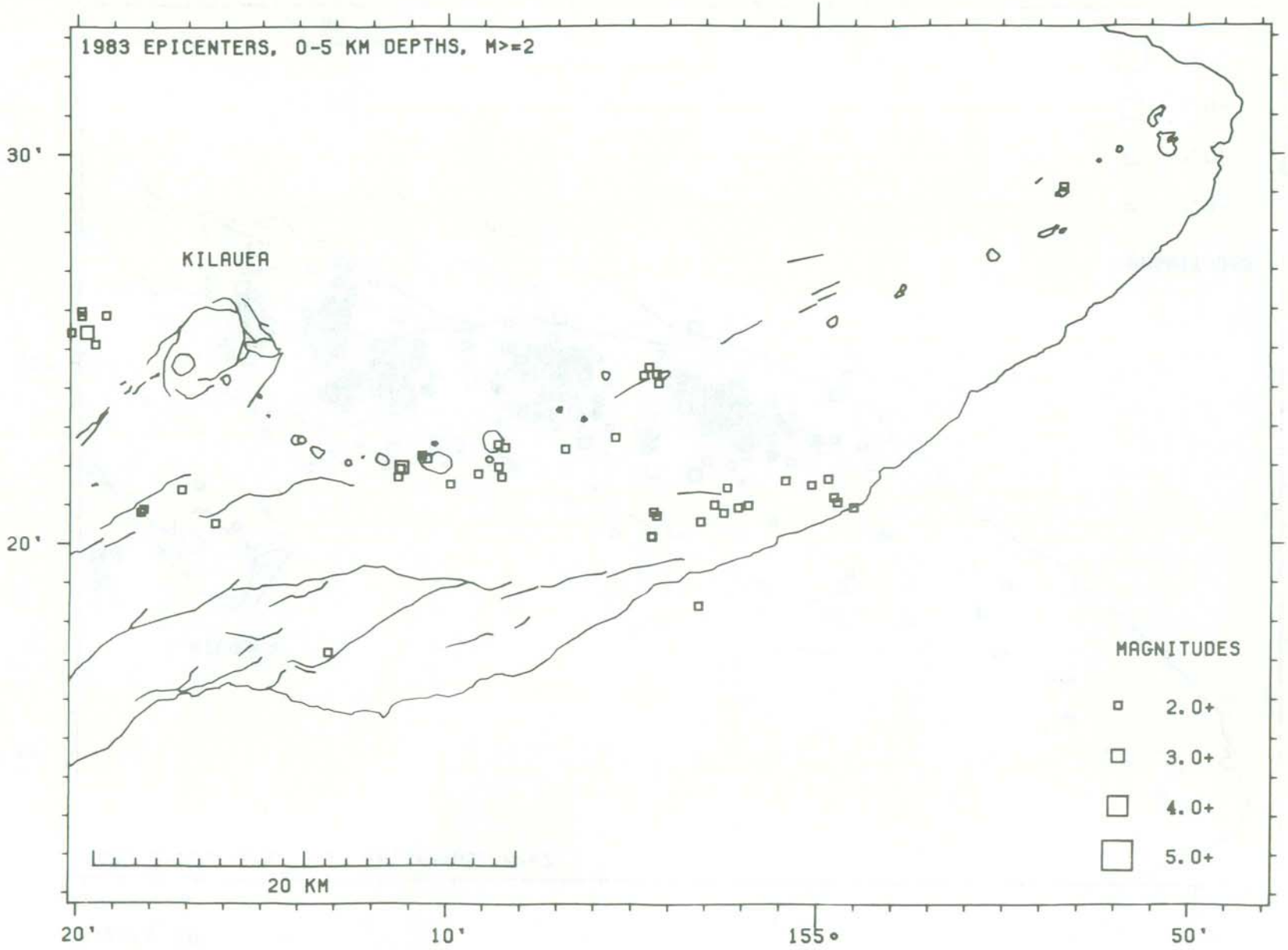
1983 EPICENTERS, 0-5 KM DEPTHS, M>=2
KILAUEA
30'
20'
20 KM
MAGNITUDES
2.0+
3.0+
4.0+
5.0+
20'
10'
155°
50'

Figure 10

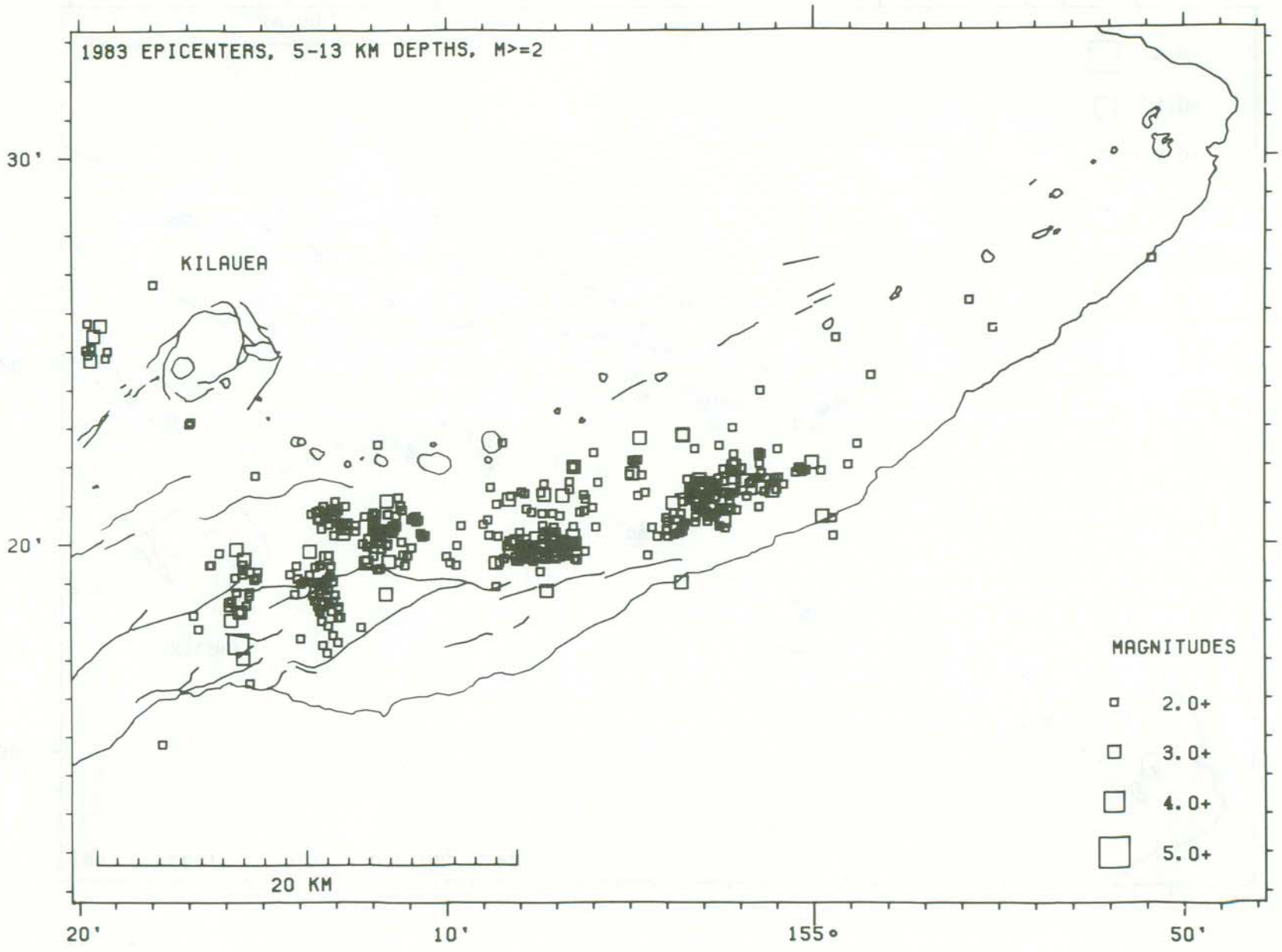
1983 EPICENTERS, 5-13 KM DEPTHS, M>=2
KILAUEA
30'
20'
20 KM
MAGNITUDES
2.0+
3.0+
4.0+
5.0+
20'
10'
155°
50'

Figure 11

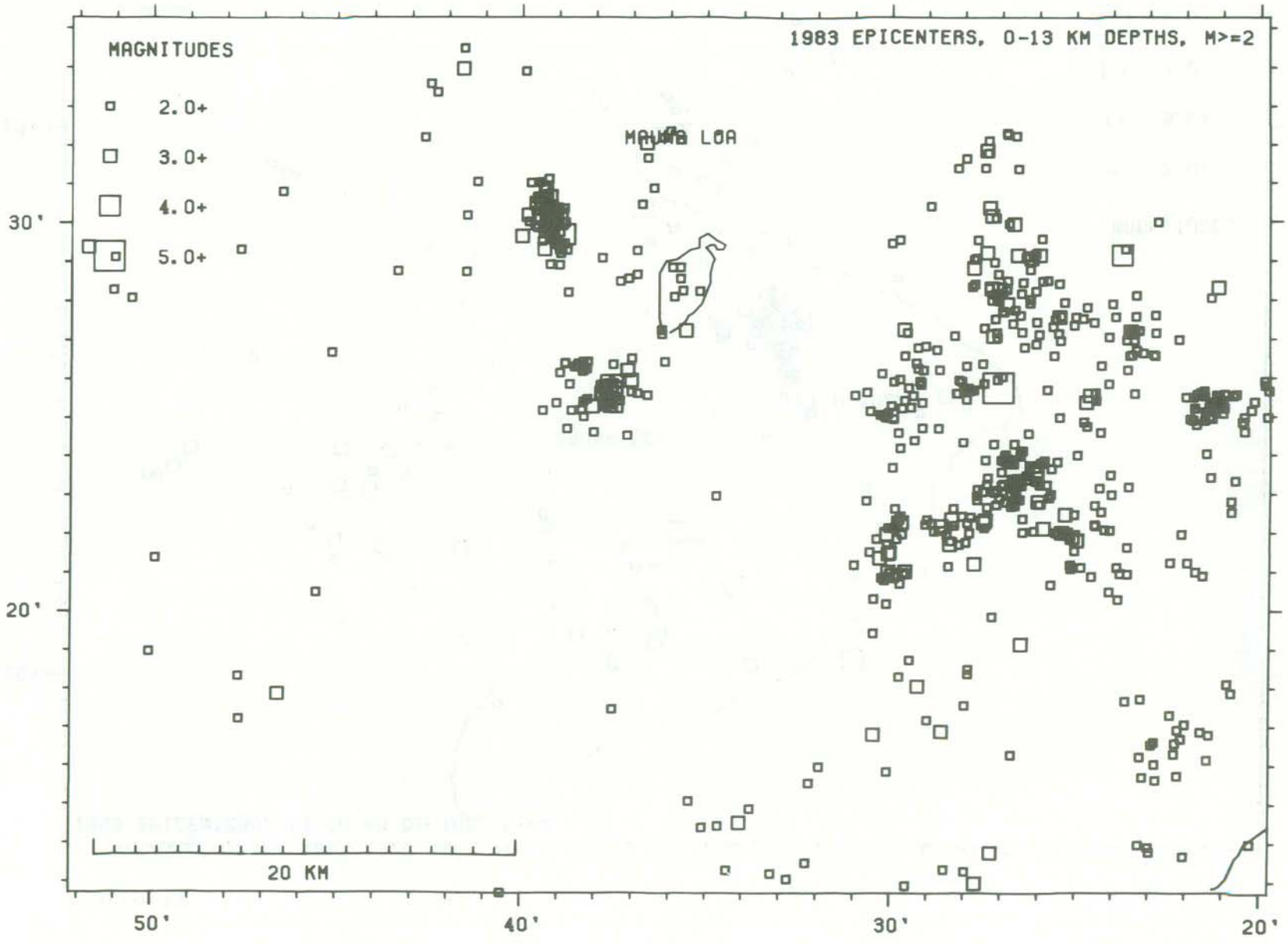
MAGNITUDES
2.0+
3.0+
4.0+
5.0+
1983 EPICENTERS, 0-13 KM DEPTHS, M>=2
MAUNA LOA
30'
20'
20 KM
50'
40'
30'
20'

Figure 12

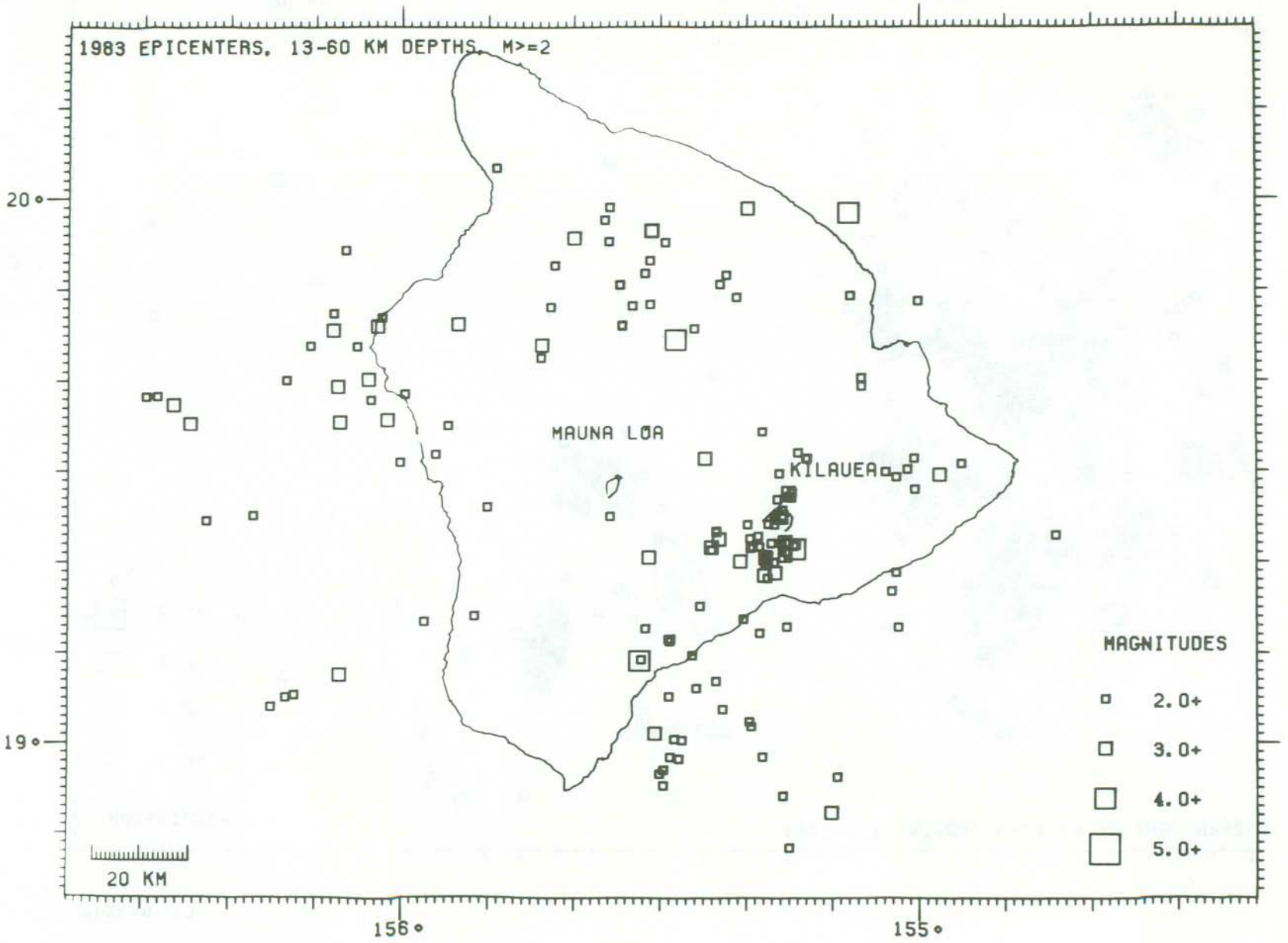
1983 EPICENTERS, 13-60 KM DEPTHS, M>=2
20°
19°
156°
155°
MAUNA LOA
KILAUEA
20 KM
MAGNITUDES
2.0+
3.0+
4.0+
5.0+

Figure 13

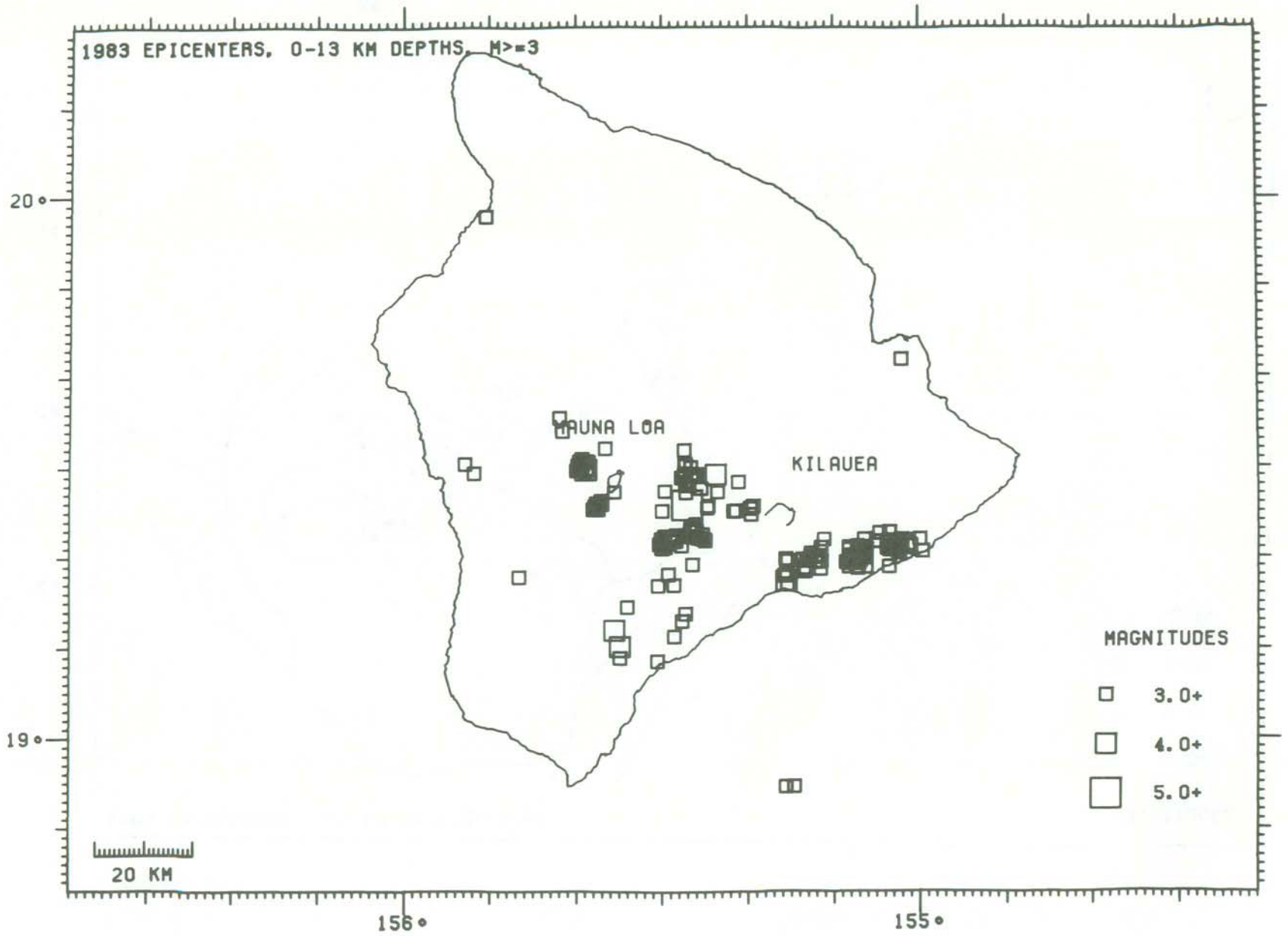
1983 EPICENTERS, 0-13 KM DEPTHS, M>=3
20°
19°
156°
155°
MAUNA LOA
KILAUEA
MAGNITUDES
3.0+
4.0+
5.0+
20 KM

Figure 14

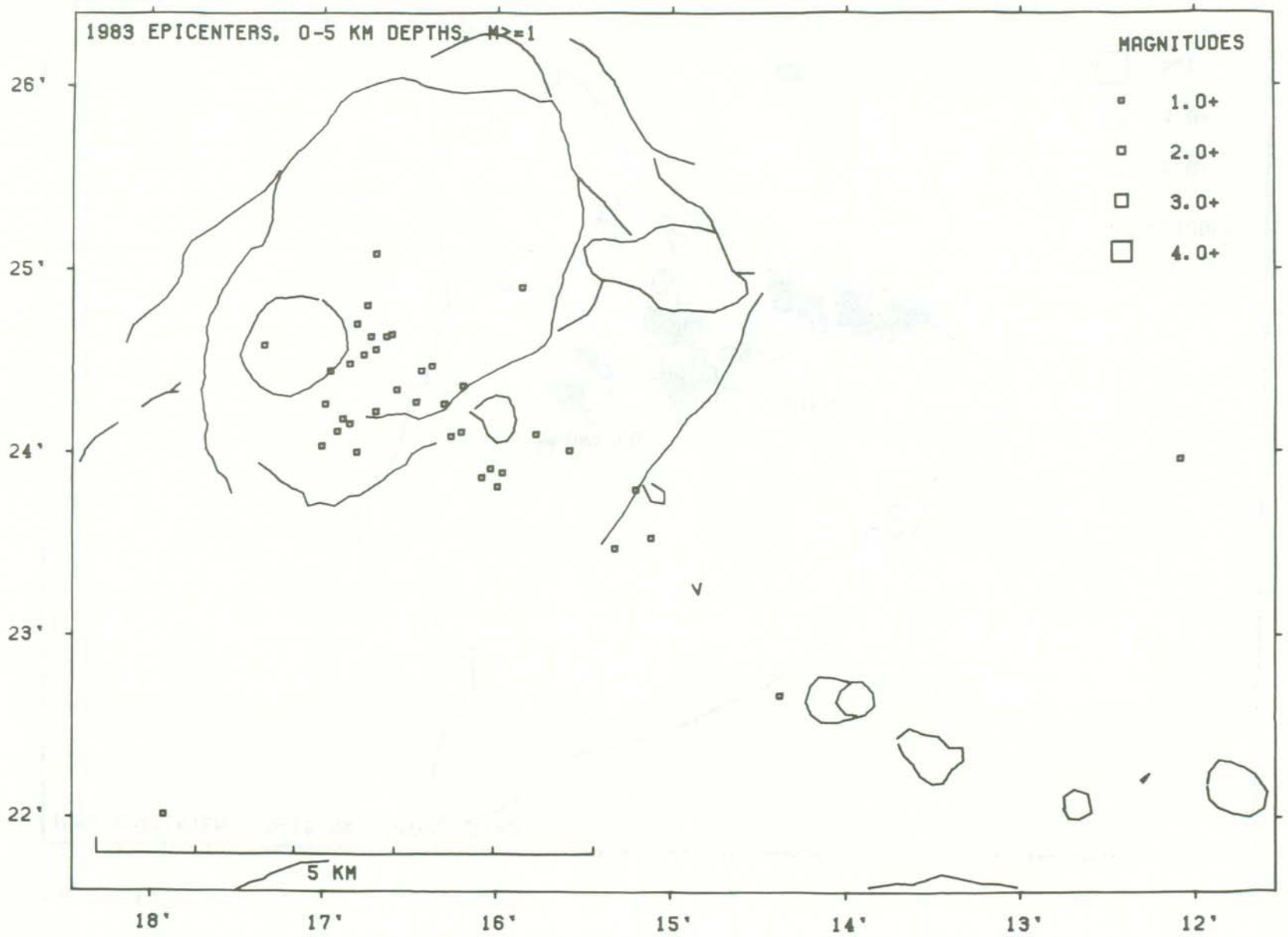
1983 EPICENTERS, 0-5 KM DEPTHS, M>=1
MAGNITUDES
1.0+
2.0+
3.0+
4.0+
26'
25'
24'
23'
22'
5 KM
18'
17'
16'
15'
14'
13'
12'

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

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

Epicenter in degrees and minutes of north latitude (LAT N) and west longitude (LON W).

DEPTH - Depth of focus in km.

AMP MAG - Amplitude magnitude, if determined.

DUR MAG - Duration magnitude, if determined.

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

NS - Number of S arrivals used for solution.

GAP DEG - Largest azimuthal separation in degrees between stations.

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

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

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

ERH km - Standard error of the epicenter in km.

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

REMK - Remarks, three letter code for geographic location of event. See Figure 2 for location of mnemonic code. Additional one letter codes have the following meanings:

F - felt

L - long period character

T - associated with harmonic tremor

B - quarry or other blast

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

Table 5 lists all events located during 1983. Table 6 lists only events of magnitude 3.0 or larger.

Table 5.

HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	1	452	14.66	19	20.97	155	11.26	8.56	1.9	2.4	35	4	69	.09	3	.4	.5	25	SF3
		1	542	43.65	19	21.93	155	11.28	3.08	2.3	2.9	36	4	58	.08	3	.3	.5	24	SER
		1	551	16.12	19	21.72	155	11.34	3.27	2.0	2.6	30	3	61	.08	3	.4	.5	22	SFR
		1	953	52.17	19	20.03	155	13.43	8.78		1.3	13	0	67	.07	5	.7	1.4	10	SF2
		1	1015	15.87	19	21.56	155	11.27	2.93	.8	1.2	14	2	81	.08	3	.4	.5	8	SER
		1	11 6	49.30	19	21.41	155	9.88	2.71	.8	1.1	14	0	63	.12	1	.6	.4	7	SER
		1	1144	8.76	19	7.94	155	19.42	4.45	1.6	1.1	4	0	320	.00	28	19.5	52.9	4	LOI *
		1	14 3	5.14	19	23.69	155	10.79	.09	1.2	1.0	14	1	118	.09	3	.3	.9	9	SER
		1	14 3	55.19	19	22.04	155	11.24	2.65	1.5	1.2	14	1	106	.09	2	.6	.5	9	SER
		1	1455	40.58	19	30.68	155	23.69	6.69	1.6	1.3	24	3	54	.09	2	.4	.8	18	MLD
		1	1612	54.16	19	21.83	155	11.30	2.56	1.5	1.6	16	1	112	.10	3	.5	.5	7	SER
		1	1647	44.66	19	21.32	155	10.99	2.08	1.4	1.0	12	1	98	.09	2	.4	.6	6	SER
		1	1910	1.76	19	21.60	155	11.47	2.53	1.5	1.3	16	3	107	.09	3	.5	.6	10	SER
		1	2046	18.18	19	19.59	155	8.10	7.13	1.3	1.3	20	1	90	.09	4	.5	1.3	15	SF4
		1	2148	41.71	19	21.44	155	8.84	6.19	2.6	3.2	36	4	63	.12	5	.5	1.2	24	SF4
		1	2236	35.48	19	21.89	155	10.98	2.53	1.5	1.0	15	2	102	.11	2	.6	.4	10	SER
		1	2257	23.90	19	21.50	155	10.84	3.23	1.6	1.2	10	1	140	.12	2	.6	.4	7	SER
		1	23 6	55.11	19	20.43	155	9.80	6.53	1.5	1.3	22	2	76	.09	3	.5	1.1	15	SF3
		2	0 7	2.59	19	17.09	155	22.03	4.74	2.2		41	2	125	.14	6	.4	1.4	33	SWR
		2	023	11.44	19	21.62	155	11.48	2.12	.5	.6	7	1	129	.08	3	.5	.6	5	SER
		2	025	38.16	19	22.00	155	11.37	2.36	1.5	1.0	13	1	87	.10	3	.5	.5	11	SER
		2	032	23.91	19	21.69	155	11.18	2.78	.8	.6	13	2	83	.13	2	.5	.5	8	SER
		2	034	53.44	19	22.17	155	11.23	2.57	1.5	1.0	14	1	90	.12	2	.6	.5	8	SER
		2	038	9.13	19	21.69	155	11.18	2.74	1.9	1.4	23	2	61	.12	2	.4	.6	20	SER
		2	1 8	.71	19	22.19	155	10.56	2.36	2.7	2.7	38	3	55	.12	1	.4	.4	33	SER
		2	113	40.44	19	22.11	155	10.36	2.70	1.7	1.5	26	5	92	.09	1	.5	.3	21	SER
		2	114	53.84	19	22.23	155	9.99	3.60	1.4	1.1	21	4	95	.10	0	.6	.5	18	SER
		2	117	29.39	19	22.08	155	10.00	3.38	.9	.6	20	4	106	.07	0	.7	.4	18	SER
		2	119	39.49	19	22.02	155	9.63	3.20	.8	.6	17	1	91	.11	0	.6	.5	15	SER
		2	129	18.07	19	23.35	155	10.43	2.00	.5	.2	12	2	112	.12	3	.9	1.2	10	SER
		2	137	53.27	19	22.17	155	10.20	2.78	.8	.3	14	3	145	.18	1	1.3	.5	12	SER
		2	148	44.87	19	21.54	155	9.93	1.87	2.5	3.4	32	4	61	.13	1	.4	.2	22	SER
		2	150	28.63	19	22.93	155	10.66	1.39	.7		9	2	138	.14	2	.7	.7	8	SER
		2	159	41.25	19	22.08	155	10.17	3.57	1.4	.8	17	2	105	.09	1	.7	.4	14	SER
		2	2 9	4.08	19	22.27	155	9.54	2.97	1.1	.8	19	2	95	.10	1	.7	.4	13	SER
		2	214	58.50	19	22.05	155	10.01	3.53	.8	.6	13	3	165	.08	0	1.3	.4	11	SER
		2	216	5.10	19	22.18	155	9.85	3.82	1.4	1.3	21	3	94	.08	0	.5	.5	17	SER
		2	216	38.39	19	21.92	155	11.32	2.13	.7		11	3	132	.09	3	.6	.4	10	SER
		2	218	49.97	19	22.31	155	9.90	3.97	1.3	1.1	20	2	96	.06	1	.4	.4	18	SER
		2	219	45.73	19	22.26	155	10.42	3.37	.9	.8	14	3	99	.09	1	.6	.4	13	SER
		2	220	14.87	19	22.11	155	9.61	3.88	1.3	.8	20	2	93	.06	0	.5	.5	19	SER
		2	226	18.45	19	22.22	155	9.84	4.22	1.3	1.1	19	2	94	.10	0	.7	.5	16	SER
		2	228	5.41	19	22.17	155	9.74	3.78	1.2	1.1	20	2	93	.06	0	.5	.4	19	SER
		2	236	30.28	19	22.07	155	10.98	3.25	.7	.6	13	3	118	.08	2	.8	.4	12	SER
		2	238	9.22	19	22.16	155	10.16	3.47	1.3	1.3	18	2	93	.09	1	.6	.4	16	SER
		2	240	39.51	19	22.61	155	9.94	3.53	.8	.6	17	2	100	.08	1	.6	.4	16	SER
		2	244	7.31	19	22.60	155	9.78	3.66	.8	.8	16	2	100	.06	1	.7	.4	14	SER
		2	246	15.49	19	22.14	155	9.32	3.54	.8	.6	17	1	93	.10	1	.6	.5	15	SER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	2	247	22.11	19	22.13	155	9.62	3.60		.6	15	2	94	.08	0	.6	.5	13	SER
		2	248	1.38	19	22.67	155	10.06	3.23	.8	.6	13	2	101	.10	1	.9	.4	10	SER
		2	252	25.76	19	22.40	155	9.82	3.39	.6	.6	11	2	97	.10	1	1.2	.5	10	SER
		2	254	19.26	19	22.61	155	9.82	3.43	.7	.8	12	2	100	.10	1	1.1	.5	10	SER
		2	256	5.25	19	22.46	155	9.58	3.79	1.3	.8	15	2	102	.11	1	1.0	.5	14	SER
		2	257	27.19	19	22.16	155	9.74	3.51	1.3	.8	17	2	93	.11	0	.8	.5	16	SER
		2	258	9.07	19	22.23	155	9.87	3.60	1.4	.6	20	2	94	.10	0	.7	.5	17	SER
		2	259	29.30	19	22.38	155	9.64	3.37	1.3	.8	18	2	97	.09	1	.6	.4	17	SER
		2	3 1	4.47	19	22.20	155	9.31	5.47	1.4	.9	19	1	95	.09	1	.6	.9	17	SF3
		2	3 3	23.06	19	22.30	155	9.72	3.53	1.2	.6	19	1	96	.08	1	.5	.4	19	SER
		2	319	15.10	19	22.92	155	10.47	4.60		.9	8	2	119	.09	2	1.8	1.8	5	SER
		2	329	6.39	19	22.41	155	9.96	3.44	.8	.8	15	2	97	.09	1	.9	.4	13	SER
		2	333	46.52	19	22.25	155	9.41	3.84	1.7	1.3	25	3	92	.06	1	.4	.3	22	SER
		2	336	14.41	19	23.54	155	10.87	2.23		1.0	10	2	115	.09	3	.8	1.2	9	SER
		2	338	11.67	19	22.27	155	9.51	3.81	1.4	.6	20	2	96	.07	1	.5	.5	18	SER
		2	339	.43	19	22.57	155	9.44	3.58	1.6	1.1	14	2	105	.10	1	.9	.4	13	SER
		2	340	34.57	19	22.28	155	9.42	3.51	1.1	.8	18	2	95	.08	1	.6	.4	16	SER
		2	341	44.45	19	22.07	155	9.20	3.58	1.5	1.3	24	3	91	.09	1	.5	.5	19	SER
		2	342	19.21	19	22.18	155	9.26	3.99	1.5	.9	20	2	94	.07	1	.4	.4	17	SER
		2	344	50.69	19	22.32	155	10.04	3.43	1.6	.8	14	1	95	.09	1	.6	.5	12	SER
		2	347	37.79	19	22.45	155	9.65	3.57	1.6	.6	19	1	96	.09	1	.6	.5	15	SER
		2	347	54.90	19	21.96	155	9.40	3.46	1.7	.6	16	1	91	.09	1	.6	.5	14	SER
		2	350	23.42	19	22.61	155	9.40	3.48	1.0	.6	17	0	129	.09	1	.7	.5	10	SER
		2	352	47.11	19	22.33	155	9.99	3.47	1.6	1.1	17	2	96	.10	1	.7	.5	10	SER
		2	356	.44	19	22.53	155	9.20	3.39	1.7	1.1	19	1	99	.10	1	.5	.5	14	SER
		2	357	35.89	19	22.23	155	9.88	3.09	1.6	1.1	17	1	94	.10	0	.6	.5	12	SER
		2	4 0	14.05	19	22.47	155	10.17	2.66	.6	.8	13	1	97	.10	1	.6	.4	9	SER
		2	4 3	57.75	19	21.44	155	9.24	3.30	1.1	.8	16	0	119	.12	2	.7	.5	10	SER
		2	4 6	45.98	19	22.39	155	9.80	3.10	.8	.8	17	2	96	.11	1	.6	.5	13	SER
		2	4 8	23.04	19	22.25	155	9.42	3.53	.7	.6	14	1	126	.08	1	.9	.5	8	SER
		2	412	21.18	19	21.72	155	8.97	4.11	1.1	.6	16	2	116	.10	2	.5	.6	13	SER
		2	415	49.21	19	22.20	155	10.05	3.88	1.2	1.1	19	2	97	.09	0	.7	.5	17	SER
		2	417	14.85	19	21.93	155	9.32	3.39	.8	.6	12	2	167	.10	1	1.1	.5	11	SER
		2	437	4.11	19	22.26	155	9.07	3.62	1.7	1.5	24	4	95	.09	1	.5	.4	20	SER
		2	437	56.77	19	22.11	155	9.19	4.26	1.0	.6	18	2	109	.10	1	.7	.6	17	SER
		2	438	25.03	19	22.53	155	9.20	3.92	1.8	2.0	34	5	54	.07	1	.3	.5	30	SER
		2	439	25.31	19	22.42	155	8.97	3.76	1.5	1.1	20	3	97	.09	2	.5	.4	19	SER
		2	440	55.39	19	22.17	155	8.94	3.86	1.5	1.5	21	4	94	.10	2	.5	.5	18	SER
		2	442	17.82	19	22.20	155	8.74	3.32	1.9	1.9	31	4	59	.09	2	.3	.4	24	SER
		2	443	18.66	19	22.12	155	9.65	3.93	1.0	.8	19	3	93	.11	0	.6	.6	18	SER
		2	446	17.62	19	22.15	155	9.73	3.33	1.5	1.3	19	0	93	.11	0	.5	.4	18	SER
		2	450	17.93	19	22.22	155	9.60	3.49	1.0	.8	15	0	106	.10	1	.8	.6	11	SER
		2	450	54.53	19	21.96	155	9.57	1.57	.7	.8	12	2	91	.07	1	.5	.2	9	SER
		2	458	25.01	19	22.14	155	9.28	3.67	1.2	.8	18	2	93	.11	1	.6	.5	11	SER
		2	459	47.56	19	21.98	155	10.50	4.07	.5	1.1	7	1	201	.04	1	1.4	.5	5	SER
		2	5 0	21.56	19	22.82	155	10.24	2.92	.8	.6	16	3	103	.10	2	.5	.4	10	SER
		2	516	15.00	19	22.32	155	10.25	3.10	1.6	1.4	17	1	112	.06	1	.5	.5	10	SER
		2	518	27.05	19	20.33	155	9.58	2.86	1.7	.8	16	2	136	.11	3	.5	.8	9	SSF

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	2	522	21.47	19	22.64	155	10.06	3.05	.8	.8	11	1	101	.08	1	.7	.3	8	SER
		2	524	20.74	19	22.20	155	9.38	3.49	1.6	.8	16	1	107	.12	1	.8	.6	14	SER
		2	525	56.20	19	22.11	155	9.82	3.24	1.6	.8	17	1	93	.13	0	.7	.5	15	SER
		2	531	17.74	19	22.32	155	9.21	3.22	1.2	.8	18	2	106	.10	1	.8	.4	12	SER
		2	531	55.00	19	22.51	155	8.47	2.78	1.7	1.1	14	0	108	.11	3	.6	.6	10	SER
		2	537	30.87	19	22.01	155	9.72	3.47	1.0	1.1	13	1	108	.13	0	.8	.5	5	SER
		2	551	6.07	19	22.81	155	8.72	2.42	1.3	1.1	15	1	102	.11	2	.7	.4	12	SER
		2	553	31.40	19	22.47	155	8.44	2.68	2.4	2.2	39	4	58	.11	5	.3	.5	27	SER
		2	555	55.83	19	22.56	155	8.37	3.04	1.8	1.1	17	0	98	.09	3	.5	.6	14	SER
		2	556	49.99	19	22.64	155	8.52	3.48	1.9	1.8	26	1	57	.13	4	.5	1.4	18	SER
		2	558	59.80	19	22.46	155	8.67	2.82	1.7	.6	17	2	97	.11	2	.6	.5	11	SER
		2	559	12.60	19	22.49	155	8.48	2.75	2.0	1.6	23	3	76	.11	3	.4	.4	22	SER
		2	6	8 1.75	19	22.77	155	9.33	4.18	1.5	1.1	16	3	102	.11	2	.6	.6	14	SER
		2	614	43.84	19	22.51	155	8.66	3.43	1.9	1.6	23	3	97	.11	2	.6	.5	22	SER
		2	619	10.36	19	22.18	155	9.28	4.05	1.7	1.5	23	3	94	.08	1	.5	.5	21	SER
		2	622	16.35	19	22.15	155	9.56	2.69	1.5	1.4	21	4	124	.10	1	.6	.4	18	SER
		2	627	25.73	19	21.72	155	8.53	2.50	2.0	2.5	22	3	88	.13	2	.4	.4	19	SER
		2	628	52.42	19	22.15	155	8.57	3.26	1.6	1.9	23	3	93	.14	2	.5	.5	22	SER
		2	648	34.37	19	21.98	155	8.30	.50	1.7	1.4	10	2	161	.08	3	.7	.5	10	SER
		2	651	33.84	19	21.77	155	9.22	2.99	1.6	1.1	21	3	117	.13	1	.6	.4	18	SER
		2	656	32.99	19	21.84	155	8.58	5.21	1.9	2.0	26	4	70	.11	2	.5	.9	20	SF4
		2	7	2 4.85	19	22.52	155	8.95	2.34	1.5	1.1	21	3	98	.11	2	.5	.3	19	SER
		2	7	4 49.42	19	21.80	155	9.17	3.36	1.9	2.2	27	4	68	.08	1	.4	.4	22	SER
		2	7	6 2.69	19	22.78	155	8.82	2.76	1.8	1.4	14	2	117	.14	2	.9	.5	13	SER
		2	710	12.07	19	22.23	155	9.04	3.94	1.2	.9	17	2	94	.14	1	.7	.6	13	SER
		2	723	52.64	19	22.50	155	8.90	3.40	1.8	1.3	22	3	75	.14	2	.6	.5	20	SER
		2	726	15.28	19	22.18	155	9.22	3.56	1.4	1.6	25	4	71	.09	1	.4	.4	24	SER
		2	728	36.70	19	22.44	155	8.69	2.55	1.9	1.7	23	3	75	.09	2	.4	.3	20	SER
		2	733	48.80	19	21.98	155	8.62	1.73	1.8	2.3	19	3	86	.14	2	.5	.4	17	SER
		2	734	39.25	19	24.45	155	10.73	.46	1.5	2.0	20	3	133	.17	5	.4	.9	19	SER
		2	741	37.37	19	21.40	155	6.74	2.15	1.7	1.3	18	4	84	.11	3	.4	.7	15	SSF
		2	810	3.91	19	22.12	155	10.42	3.51	1.4	.8	19	3	92	.09	1	.5	.4	18	SER
		2	816	38.12	19	21.85	155	9.20	1.92	1.7	1.7	23	3	90	.07	1	.5	.3	21	SER
		2	828	52.68	19	22.77	155	9.13	3.23	1.5	1.3	17	3	102	.11	2	.6	.4	15	SER
		2	9	5 43.31	19	22.73	155	5.45	2.36	2.3	2.9	20	3	101	.09	2	.6	.3	19	SME
		2	914	56.16	19	22.57	155	10.14	3.57	1.4	1.1	18	2	99	.08	1	.5	.4	17	SER
		2	917	55.64	19	22.48	155	8.56	2.90	1.4	.8	17	4	97	.11	2	.6	.4	16	SER
		2	918	17.24	19	23.45	155	7.73	3.55	1.7	1.3	16	3	106	.14	3	.5	.8	15	SER
		2	925	51.33	19	22.43	155	6.81	2.06	2.3	3.1	22	2	92	.09	1	.4	.3	21	SME
		2	929	5.34	19	22.65	155	5.43	1.44	1.9	1.1	12	0	109	.15	2	.6	.5	11	SME
		2	941	16.43	19	22.68	155	8.62	2.57	1.4	1.1	19	1	77	.10	2	.5	.6	14	SER
		2	946	41.18	19	18.76	155	6.73	3.36	1.4	.9	20	0	149	.14	3	.9	1.5	14	SSF
		2	948	51.32	19	21.97	155	11.25	2.52	2.9	3.1	30	2	71	.12	3	.4	.8	22	SER
		2	951	25.21	19	21.83	155	9.29	.94	1.6	.8	14	0	119	.10	1	.6	.3	9	SER
		2	10	1 9.82	19	21.80	155	9.15	3.20	1.7	.8	7	0	175	.03	1	1.5	.4	5	SER
		2	1025	19.95	19	22.30	155	8.50	2.36	1.6	1.1	16	0	108	.12	2	.9	.7	8	SER
		2	1031	5.47	19	22.33	155	10.28	3.20	1.4	1.6	16	1	95	.08	1	.6	.5	13	SER
		2	1112	1.90	19	19.75	155	12.77	7.83	1.5	.9	15	1	77	.07	5	.6	1.4	14	SF2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	2	1117	25.22	19	20.51	155	3.55	8.23	2.7	2.5	42	3	98	.11	2	.5	.4	31	SF5
		2	1138	54.53	19	22.37	155	10.20	3.33	1.3	1.1	10	0	96	.03	1	.7	.5	10	SER
		2	1141	43.54	19	20.05	155	10.84	8.74	1.7	1.3	25	2	86	.09	4	.6	1.1	17	SF3
		2	1146	46.62	19	21.59	155	11.21	.68	1.5	.8	17	1	108	.13	3	.4	.7	11	SER
		2	1147	51.86	19	22.34	155	10.43	2.36	1.6	1.4	14	0	95	.09	1	.6	.4	9	SER
		2	1148	46.23	19	22.27	155	8.98	3.26	1.8	1.1	16	0	95	.09	2	.6	.5	14	SER
		2	1212	26.18	19	23.30	155	6.50	2.75	1.4	1.1	13	1	99	.09	1	.6	.3	11	SME
		2	1235	35.80	19	18.85	155	9.02	7.31	1.0	.6	6	0	277	.06	6	8.8	2.7	5	SF4
		2	1240	28.37	19	16.99	155	5.98	3.43	1.5	1.1	20	0	227	.07	4	1.4	.9	14	SSF
		2	1253	5.96	19	22.92	155	9.46	2.47	1.4	1.1	9	3	156	.12	2	.8	.5	8	SER
		2	1257	3.24	19	21.88	155	10.90	2.94	1.3	.6	16	3	103	.08	2	.5	.4	15	SER
		2	1259	26.61	19	19.34	155	4.28	7.19	1.8	1.4	35	9	176	.10	3	.5	.7	30	SF5
		2	1320	13.80	19	21.94	155	11.42	2.81	1.0	.8	21	2	85	.10	3	.4	.4	18	SER
		2	1321	13.44	19	22.85	155	8.64	3.60	1.3	.9	19	3	102	.11	3	.6	.5	17	SER
		2	1330	58.75	19	22.47	155	8.92	3.20	1.6	1.3	21	4	98	.07	2	.5	.4	19	SER
		2	1338	38.72	19	23.37	155	7.28	4.21	1.4	1.1	19	2	103	.10	2	.5	.7	17	SER
		2	1339	39.69	19	22.19	155	10.28	3.25	1.4	1.1	23	4	93	.06	1	.5	.4	21	SER
		2	1343	4.46	19	23.26	155	9.77	2.81	.8	.6	15	3	147	.17	2	.8	.7	14	SER
		2	1352	27.47	19	22.31	155	9.40	3.97	1.6	.6	22	3	95	.11	1	.6	.5	19	SER
		2	1356	.38	19	18.88	155	15.53	8.76	1.9	1.3	21	4	120	.08	4	.5	.8	19	SF1
		2	14	1 32.68	19	21.96	155	10.62	3.38	1.3	.6	15	2	103	.11	1	.7	.5	10	SER
		2	14	9 47.92	19	22.41	155	10.67	3.67	1.8	1.6	23	3	95	.10	2	.5	.4	21	SER
		2	1424	42.75	19	22.72	155	8.98	3.41	1.2	.8	15	2	116	.08	2	.9	.5	13	SER
		2	1448	59.02	19	22.24	155	8.97	3.73	1.4	.8	18	3	95	.13	2	.7	.6	16	SER
		2	1451	59.01	19	22.48	155	8.33	2.66	1.3	1.3	14	2	138	.16	3	1.1	.6	13	SER
		2	1454	46.73	19	22.77	155	7.92	4.23	1.5	1.3	17	3	128	.09	3	.6	.7	16	SER
		2	1458	9.37	19	22.00	155	9.07	3.75	1.8	1.5	18	3	92	.11	1	.4	.4	17	SER
		2	15	4 23.09	19	22.02	155	10.85	4.08	1.4	1.1	14	2	102	.12	2	.7	.6	13	SER
		2	1513	53.24	19	22.28	155	10.85	3.68	1.1	1.1	15	2	93	.09	2	.6	.6	13	SER
		2	1524	33.03	19	23.06	155	7.51	3.76	1.4	1.1	21	3	139	.08	2	.5	.6	21	SER
		2	1525	15.27	19	22.73	155	7.69	4.72	1.6	1.3	22	3	98	.10	3	.6	.9	20	SER
		2	1532	40.01	19	23.96	155	12.09	.00	1.1	1.4	14	3	122	.13	3	.5	.8	13	SER *
		2	1540	58.92	19	22.94	155	9.11	3.50	1.2	.6	16	3	104	.09	2	.6	.5	15	SER
		2	1541	43.42	19	20.06	155	9.22	8.52	1.5	.9	17	3	211	.08	4	1.2	.8	15	SF3
		2	1550	11.22	19	22.86	155	7.52	4.02	1.9	1.5	26	4	69	.09	2	.5	.7	25	SER
		2	16	9 31.51	19	23.17	155	7.58	3.72	1.1	.6	18	3	103	.12	2	.5	.6	17	SER
		2	1611	55.90	19	23.00	155	8.82	3.20	1.2	1.1	14	3	108	.10	3	.8	.6	13	SER
		2	1626	53.09	19	23.11	155	7.20	4.15	1.9	1.5	24	4	81	.11	2	.5	.7	23	SME
		2	1642	59.84	19	21.86	155	10.81	2.76	1.7	1.2	19	2	104	.09	2	.6	.5	15	SER
		2	1649	54.74	19	22.91	155	8.41	2.75	1.2	.6	13	2	118	.11	3	.9	.6	10	SER
		2	1653	.47	19	22.55	155	8.64	3.50	2.2	2.2	29	1	70	.10	2	.4	.6	23	SER
		2	17	0 10.66	19	20.69	154	59.80	9.18	3.3	3.4	44	2	197	.12	6	.8	.5	37	LER
		2	1712	30.89	19	23.44	155	7.40	3.34	1.2	.6	11	0	105	.09	2	.5	.6	7	SER
		2	1719	53.90	19	22.71	155	8.77	3.41	1.7	.8	13	2	101	.07	2	.4	.5	11	SER
		2	1724	39.51	19	22.72	155	8.81	3.20	1.4	.6	15	1	101	.07	2	.5	.4	8	SER
		2	1726	51.16	19	22.73	155	8.67	3.27	1.4	.8	17	1	100	.20	2	.7	.7	9	SER
		2	1733	29.60	19	23.10	155	7.55	3.11	1.3	1.1	16	0	102	.10	2	.5	.6	5	SER
		2	18	0 49.60	19	22.29	155	9.99	2.37	1.5	1.1	15	0	95	.18	1	.8	.5	9	SER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JAN	2	18 3	29.65	19	23.46	155	6.99	2.34	1.4	.8	10	0	103	.09	2	.6	.3	6	SME	
		2	18 5	5.13	19	22.81	155	7.77	3.59	1.6	1.1	18	0	90	.09	3	.6	.7	15	SER	
		2	18 8	46.22	19	22.05	155	10.64	2.86	1.8	1.3	19	1	90	.12	1	.7	.5	10	SER	
		2	18 9	48.06	19	22.37	155	7.92	4.70	1.1	.6	14	1	157	.11	3	1.2	1.6	7	SER	
		2	1811	19.60	19	22.20	155	10.74	2.45	1.6	1.0	14	1	92	.11	2	.6	.5	6	SER	
		2	1826	43.77	19	22.59	155	9.79	2.93	1.2	.6	7	0	132	.09	1	1.0	.5	7	SER	
		2	1837	32.14	19	22.75	155	8.76	3.03	1.3	.8	17	1	101	.10	2	.6	.5	11	SER	
		2	1842	30.58	19	22.82	155	7.46	3.07	2.1	1.3	19	0	78	.10	2	.5	.6	14	SER	
		2	1855	31.89	19	22.96	155	10.22	2.49	.9	.6	9	0	104	.23	2	1.0	.8	5	SER	
		2	1859	39.28	19	22.42	155	8.58	2.93	2.0	1.8	25	3	91	.11	2	.5	.5	18	SER	
		2	19 2	15.18	19	22.59	155	8.83	3.02	1.9	1.6	24	2	94	.07	2	.4	.4	19	SER	
		2	19 5	33.52	19	22.63	155	8.90	2.69	1.8	1.4	20	1	94	.09	2	.5	.7	14	SER	
		2	1928	13.50	19	22.68	155	10.76	2.68	.8	.6	14	2	122	.09	2	.8	.4	13	SER	
		2	1939	52.51	19	18.79	155	7.29	9.52	3.3	3.0	49	9	130	.10	3	.5	.3	42	SF4	
		2	1944	14.90	19	18.14	155	6.96	7.49	2.0	1.3	23	1	167	.11	2	1.0	1.2	22	SF4	
		2	1945	1.66	19	22.27	155	10.71	2.28	2.3	2.2	30	4	77	.10	2	.4	.3	25	SER	
		2	1946	.47	19	23.20	155	7.43	3.99	1.3	.9	13	2	103	.10	2	.6	.5	12	SER	
		2	1953	29.00	19	23.08	155	8.06	3.95	1.6	1.5	23	2	93	.09	3	.5	.8	22	SER	
		2	1959	41.21	19	24.06	155	11.75	3.50	1.3	.6	13	3	125	.24	4	.9	1.5	11	SER	
		2	20 1	39.47	19	22.59	155	8.51	5.26	2.4	2.5	29	3	62	.10	4	.4	1.3	26	SF4	
		2	20 3	34.57	19	21.70	155	10.98	2.88	1.5	1.3	17	2	117	.11	2	.7	.6	16	SER	
		2	20 6	34.99	19	22.87	155	8.12	2.62	1.2	1.1	11	1	123	.11	3	.7	.6	11	SER	*
		2	2010	12.64	19	18.40	155	15.04	8.12	1.9	1.3	22	3	131	.07	4	.6	.8	20	SF1	
		2	2011	14.53	19	21.82	155	10.68	2.97	.9	.6	13	0	115	.15	2	.8	.6	13	SER	
		2	2012	5.01	19	23.27	155	7.46	3.91	1.4	.6	20	3	103	.09	2	.5	.6	19	SER	
		2	2033	46.21	19	22.65	155	8.75	3.29	1.9	1.6	25	4	93	.08	2	.4	.4	23	SER	
		2	2038	2.62	19	22.54	155	8.70	3.93	1.8	1.5	23	4	76	.07	2	.4	.5	21	SER	
		2	2041	52.84	19	22.73	155	8.93	1.14	2.1	.6	11	2	117	.08	2	.8	.6	10	SER	
		2	2042	20.32	19	22.46	155	8.53	2.39	1.4	1.1	15	2	138	.15	2	1.0	.5	15	SER	
		2	2043	16.95	19	22.78	155	8.85	2.98	1.8	1.4	19	3	101	.07	2	.5	.3	17	SER	
		2	2044	45.10	19	22.39	155	9.48	3.88	1.2	.8	14	2	129	.07	1	.8	.5	13	SER	
		2	2053	22.72	19	23.10	155	9.05	3.32	1.7	.8	17	3	106	.08	2	.7	.6	16	SER	
		2	2054	56.05	19	21.37	155	6.65	7.56	2.0	1.1	24	3	86	.09	3	.5	.8	22	SF4	
		2	2056	22.46	19	22.55	155	8.63	3.12	1.7	1.3	22	3	98	.10	2	.5	.4	20	SER	
		2	2057	25.31	19	22.60	155	8.57	3.19	1.5	.8	13	3	131	.10	2	.9	.5	11	SER	
		2	2058	17.60	19	22.68	155	8.60	3.41	1.4	1.1	13	0	100	.06	3	.5	.4	5	SER	
		2	21 1	35.39	19	22.63	155	8.63	3.26	2.0	1.1	18	0	93	.05	2	.4	.5	14	SER	
		2	21 4	30.45	19	22.91	155	8.73	2.90	1.5	1.1	19	1	103	.08	3	.5	.5	14	SER	
		2	21 9	11.47	19	17.60	155	12.62	4.77	1.5	.6	18	0	142	.08	2	.6	1.1	9	SSF	
		2	21 9	46.06	19	22.47	155	8.41	3.32	1.3	.8	15	0	106	.09	3	.7	.6	9	SER	
		2	2113	7.36	19	24.77	155	8.97	.03	1.0	.8	8	0	132	.37	6	1.7	8.1	5	SER	*
		2	2118	48.02	19	23.04	155	7.41	3.41	1.6	1.3	21	0	80	.10	2	.5	.6	18	SER	
		2	2120	1.31	19	22.61	155	8.83	3.57	1.3	.6	12	2	104	.12	2	.9	.6	8	SER	
		2	2140	21.69	19	22.82	155	7.66	2.75	1.2	.8	12	2	101	.08	2	.7	.5	8	SER	
		2	2148	10.78	19	22.66	155	8.76	3.08	1.3	1.1	16	0	99	.10	2	.5	.4	10	SER	
		2	2150	58.44	19	22.99	155	7.28	3.45	1.4	1.1	17	0	99	.09	2	.6	.6	11	SER	
		2	22 9	42.81	19	23.10	155	7.48	3.30	1.4	1.3	14	1	102	.07	2	.5	.6	11	SER	
		2	2226	5.47	19	22.72	155	7.81	3.59	1.6	1.3	20	1	90	.06	3	.5	.6	14	SER	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JAN	2	2230	13.99	19	22.88	155	8.48	2.71	1.6	1.1	15	2	102	.12	3	.5	.6	8	SER	
		2	2239	13.99	19	22.88	155	8.48	2.71	1.3	1.1	15	2	102	.12	3	.5	.6	8	SER	
		2	2243	34.40	19	23.71	155	10.38	.10		.5	5	0	118	.05	3	.8	2.2	4	SER	*
		2	2257	29.42	19	26.30	155	27.97	8.08	2.6	2.3	45	4	37	.13	5	.3	.7	31	KAO	
		2	2259	51.41	19	26.41	155	27.38	8.74	1.7	1.1	19	2	61	.13	4	.5	1.2	13	KAO	
		2	2316	44.02	19	23.24	155	7.68	3.42	1.9	1.9	22	2	92	.09	3	.4	.6	19	SER	
		2	2327	16.02	19	23.47	155	6.95	2.78	1.4	1.3	15	4	103	.10	2	.5	.3	14	SME	
		2	2333	3.51	19	23.56	155	6.89	3.13	1.2	.9	14	4	103	.10	2	.5	.4	13	SME	
		2	2337	16.91	19	19.13	155	13.72	7.71	2.2	1.6	28	5	84	.11	4	.5	.9	24	SF2	
		2	2345	15.41	19	22.71	155	8.71	3.21	1.2	.8	14	3	102	.13	2	.8	.5	13	SER	
		2	2352	22.72	19	19.53	155	8.28	6.85	1.4	.9	19	2	86	.09	4	.6	1.3	17	SF4	
		3	0 1	16.77	19	23.14	155	6.64	3.33	1.4	.9	14	4	119	.11	1	.7	.4	12	SME	
		3	0 1	36.46	19	19.36	155	8.32	12.23	1.6	1.4	20	1	87	.11	4	.8	1.3	20	SF4	
		3	017	8.68	19	22.85	155	8.97	3.55	1.1	.8	16	3	103	.07	2	.6	.5	15	SER	
		3	020	17.37	19	23.37	155	7.84	2.98	1.4	.6	17	3	106	.11	3	.5	.6	11	SER	
		3	1 5	41.75	19	24.44	155	16.44	3.16	1.0	1.0	12	2	131	.07	1	.6	.3	10	SEC	
		3	110	25.46	19	22.76	155	8.33	2.81	1.3	.8	15	2	102	.10	3	.7	.5	11	SER	
		3	131	39.52	19	22.48	155	8.59	4.67	1.5	1.1	15	1	106	.10	2	.8	1.2	10	SER	
		3	143	6.62	19	19.11	155	8.49	6.67	1.6	.9	19	2	83	.07	3	.6	1.6	10	SF4	
		3	145	36.99	19	24.58	155	17.34	1.41	1.7	1.4	11	1	65	.16	1	.5	.3	5	SNC	
		3	159	13.17	19	23.64	155	7.05	2.50	1.3	.8	11	1	106	.09	2	.6	.5	6	SME	
		3	214	27.75	19	23.23	155	6.87	3.41	1.6	.9	13	0	100	.15	1	.6	.6	8	SME	
		3	227	33.07	19	17.14	155	11.75	1.94	1.4	1.3	22	1	171	.12	3	.8	.6	13	SSF	
		3	231	4.06	19	21.91	155	.36	9.97	2.4	2.3	32	1	181	.11	7	.8	.6	23	SF5	
		3	315	.95	19	22.81	155	7.74	3.46	1.8	1.3	20	0	90	.09	3	.6	.8	19	SER	
		3	319	22.82	19	24.53	155	16.35	2.30	.7	.8	8	1	144	.04	1	.4	.5	3	SEC	
		3	334	39.20	19	22.87	155	9.01	7.10	1.8	1.3	16	1	103	.12	5	.8	1.6	10	SF4	
		3	359	19.76	19	22.82	155	7.87	3.09	1.4	.8	14	2	100	.10	3	.6	.5	7	SER	
		3	4 6	29.66	19	24.27	155	17.19	1.85	1.1	.8	10	2	119	.12	1	.4	.3	8	SSC	
		3	437	21.30	19	23.01	155	7.21	3.66	1.6	.6	14	0	81	.11	2	.6	.8	5	SER	
		3	512	14.30	19	24.15	155	16.85	4.57	1.5	1.1	9	3	89	.11	1	.6	.7	8	SSC	
		3	557	36.04	19	27.27	154	53.66	4.34	1.5	.7	19	3	144	.11	4	1.0	3.0	18	SLE	
		3	558	52.92	19	24.51	155	16.27	2.36	.8	.5	9	1	144	.05	1	.4	.3	8	SEC	
		3	559	20.14	19	24.27	155	16.47	1.29	1.1	1.0	14	4	116	.11	1	.3	.2	10	SEC	
		3	6 8	11.06	19	20.33	155	2.77	4.86	1.4	.9	14	3	164	.09	1	.9	.9	12	SSF	
		3	627	10.47	19	22.59	155	9.00	3.63	1.3	.5	7	1	122	.06	2	.9	.6	4	SER	
		3	628	22.34	19	20.32	155	5.01	3.01	2.3	.8	7	0	123	.05	4	.9	1.8	7	SSF	
		3	633	42.84	19	23.21	155	6.74	3.15	1.6	.9	12	1	99	.09	1	.5	.6	8	SME	
		3	647	36.48	19	21.15	155	13.25	15.90	1.6	1.0	7	0	200	.08	3	3.0	4.1	5	DEP	
		3	735	8.08	19	22.87	154	59.69	6.57	1.4	.7	16	0	213	.13	5	1.9	2.9	11	LER	
		3	745	44.77	19	22.99	155	2.27	6.58	1.6	.7	16	1	135	.12	5	.7	1.6	9	SF5	
		3	837	10.06	19	19.71	155	8.50	7.41	2.0	1.3	20	1	80	.08	4	.6	1.2	17	SF4	
		3	840	.90	19	24.11	155	16.92	2.55	1.6	1.6	17	3	82	.12	1	.4	.2	12	SSC	
		3	910	5.44	19	24.46	155	16.78	2.32	.9	.8	12	4	108	.06	1	.3	.3	8	SSC	
		3	10 8	22.64	19	23.61	155	4.34	4.91	1.7	1.1	7	0	156	.09	2	.8	1.5	6	SME	
		3	1133	33.52	19	23.42	155	5.87	3.07	1.5	1.3	15	0	97	.12	4	.6	1.3	13	SME	
		3	1151	58.38	19	15.62	155	10.57	7.92	2.0	1.5	19	0	211	.10	6	1.5	2.8	14	SF3	
		3	1155	4.02	19	21.03	155	3.86	7.97	3.8	4.0	44	2	85	.11	3	.4	.5	38	SF5	F

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	3	12 5	57.64	19	20.80	155	3.93	7.92	2.2	1.5	19	0	95	.08	2	.8	1.4	17	SF5
		3	12 8	54.74	19	21.64	155	3.71	5.29	1.9	1.5	28	2	100	.10	3	.5	1.4	20	SF5
		3	1212	37.62	19	20.76	155	3.65	8.04	2.7	2.6	38	1	90	.10	2	.6	.6	32	SF5
		3	1224	25.03	19	20.89	155	3.56	6.73	1.9	1.1	8	0	101	.01	2	1.2	2.3	8	SF5
		3	1244	1.71	19	20.67	155	3.25	5.31	2.5	2.7	35	3	99	.13	2	.5	.9	18	SF5
		3	13 0	1.98	19	20.56	155	3.50	6.20	1.6	.9	28	3	93	.12	2	.6	.7	18	SF5
		3	13 9	43.44	19	21.69	155	4.19	4.42	1.8	.9	19	4	90	.09	4	.4	1.5	15	SSF
		3	1335	54.88	19	20.83	155	3.36	8.11	2.1	1.5	26	3	96	.11	2	.6	.9	23	SF5
		3	1418	32.86	19	16.82	155	11.67	2.03	1.1	.6	15	2	197	.11	3	1.0	.6	14	SSF
		3	15 5	27.43	19	20.31	155	6.99	8.66	2.0	1.8	25	2	103	.10	5	.6	1.2	23	SF4
		3	1542	6.63	19	21.53	155	1.84	6.32	1.3	.7	16	2	162	.12	4	.8	1.2	14	SF5
		3	16 6	1.98	19	20.89	155	6.66	6.75	1.3	.6	17	4	95	.08	6	.6	1.2	15	SF4
		3	1615	53.16	19	24.31	155	4.69	3.19	2.0	2.2	21	1	78	.08	1	.4	.5	21	SME
		3	1623	22.75	19	21.48	155	2.55	6.77	1.6	1.2	21	2	133	.12	3	.7	1.1	19	SF5
		3	1639	25.73	19	20.14	155	2.51	6.17	1.7	1.8	19	4	187	.11	1	.7	.7	16	SF5
		3	1655	13.69	19	27.86	155	51.45	7.22		1.3	20	3	109	.10	7	.6	1.0	17	KON
		3	1730	28.82	19	24.22	155	6.55	3.74	1.6	1.1	17	2	109	.11	2	.5	.7	16	SME
		3	1747	37.04	19	22.33	155	6.01	9.15	2.8	3.0	41	4	72	.09	1	.4	.5	35	SF4
		3	18 2	20.93	19	21.29	155	2.58	7.53	2.0	1.9	37	4	134	.13	3	.5	.6	32	SF5
		3	18 4	3.06	19	20.79	155	7.71	8.58	2.1	2.3	36	6	84	.10	4	.4	.5	32	SF4
		3	1817	46.77	19	23.52	155	5.85	3.79	1.3	.9	14	2	97	.08	1	.5	.4	14	SME
		3	1832	38.88	19	26.81	155	29.79	7.87	2.2	1.7	36	3	56	.13	9	.4	1.1	25	KAO
		3	1834	38.91	19	23.68	155	4.93	3.76	1.4	1.1	23	1	77	.11	2	.5	.5	15	SME
		3	1852	43.04	19	24.27	155	4.72	3.60	1.3	.9	15	0	95	.10	1	.5	.5	10	SME
		3	20 0	54.76	19	23.69	155	6.05	3.37	1.3	1.1	14	1	100	.12	1	.7	.4	13	SME
		3	2046	3.58	19	21.17	155	18.37	1.88	.7	1.4	13	1	74	.10	3	.3	.7	7	SWR
		3	2056	52.41	19	19.59	155	13.81	7.13	.9	.6	13	0	79	.07	5	.6	1.8	9	SF2
		3	21 0	2.27	19	23.23	155	6.92	3.12	1.8	1.1	17	1	101	.09	1	.5	.4	11	SME
		3	2112	52.73	19	19.96	155	4.66	3.67	1.3	.9	17	2	140	.07	3	.5	1.1	9	SSF
		3	2128	47.57	19	24.04	155	4.81	3.07	1.3	1.1	14	2	94	.08	1	.5	.3	12	SME
		3	2132	35.00	19	23.85	155	5.10	3.75	1.3	1.1	16	1	95	.07	2	.5	.6	12	SME
		3	2137	51.94	19	24.70	155	5.37	4.51	1.4	1.1	13	0	139	.09	4	.8	1.8	12	SME
		3	2148	2.17	19	20.62	155	6.64	8.61	1.3	.7	18	1	100	.08	4	.6	1.3	14	SF4
		3	2158	31.26	19	20.18	155	3.99	5.08	2.0	2.2	23	1	130	.11	2	.5	1.0	19	SF5
		3	2234	13.27	19	16.38	155	11.96	2.01	1.1	.6	18	0	193	.10	3	.9	.6	13	SSF
		3	2241	7.48	19	21.88	155	2.31	5.07	1.9	2.2	26	0	168	.13	6	.8	1.3	16	SF5
		3	2249	35.75	19	19.67	155	6.89	6.83	1.5	.9	19	2	118	.11	5	.6	1.5	14	SF4
		3	2334	56.90	19	23.91	155	5.14	3.04	1.7	1.1	15	1	95	.09	2	.6	.4	12	SME
		4	035	2.21	19	27.31	154	55.96	10.34	1.7	1.0	29	3	134	.11	1	.5	.7	20	LER
		4	041	54.64	19	19.38	155	6.21	5.71	1.2	.6	19	0	140	.11	5	.8	2.2	11	SF4
		4	046	31.81	19	19.06	155	10.30	5.62	1.8	1.3	23	3	109	.09	5	.5	1.7	14	SF3
		4	128	15.44	19	20.06	155	7.73	8.74	1.3	.7	21	1	94	.08	5	.6	1.1	13	SF4
		4	144	6.89	19	20.91	155	2.12	3.92	2.0	2.3	26	1	161	.10	2	.6	.9	17	SSF
		4	213	24.58	19	23.06	155	6.79	3.56	1.7	2.0	21	2	80	.10	1	.4	.3	21	SME
		4	216	16.98	19	19.19	154	59.87	7.97		1.0	13	3	218	.12	6	1.3	1.1	11	LER
		4	245	31.23	19	28.14	154	56.60	10.02	1.2	.9	14	2	97	.10	3	.8	1.0	12	LER
		4	253	23.38	19	28.03	154	53.57	6.78	1.3	.8	17	2	123	.13	3	.7	1.0	15	LER
		4	259	55.30	19	23.10	155	7.45	3.54	1.5	1.3	21	3	101	.06	2	.4	.5	19	SER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	4	328	.66	19	19.55	155	8.53	6.11	1.8	1.4	28	3	80	.10	4	.4	1.0	21	SF4
		4	418	18.71	19	13.07	155	28.64	8.44	1.1	1.3	18	2	116	.12	5	.5	.9	16	LSW
		4	443	6.93	19	19.42	155	13.54	7.45	1.6	1.6	36	4	67	.10	4	.4	.7	31	SF2
		4	610	21.38	19	23.71	155	6.13	3.71	1.3	1.1	14	2	100	.08	1	.5	.4	13	SME
		4	718	37.74	19	23.85	155	5.18	6.56	1.1	.7	14	1	95	.11	2	.6	1.0	14	SF5
		4	8 7	31.91	19	16.39	155	23.59	6.80	1.6	1.6	26	5	106	.12	4	.4	1.1	23	SWR
		4	810	54.49	19	16.53	155	23.53	6.44	1.5	1.5	19	3	106	.10	4	.5	1.3	18	SWR
		4	815	50.98	19	23.20	155	6.58	3.40	1.0	.9	13	2	117	.09	1	.7	.4	13	SME
		4	846	46.57	19	20.57	155	2.98	4.87	1.5	1.1	23	2	118	.20	1	.8	1.2	22	SSF
		4	849	28.97	19	23.38	155	7.17	3.21	1.0	.6	12	3	113	.07	2	.7	.5	12	SME
		4	9 1	7.27	19	24.66	155	3.88	6.10	1.2	.3	13	2	173	.09	1	.8	.7	12	SF5
		4	911	4.20	19	23.17	155	6.74	3.52	1.0	.6	15	3	137	.11	1	.8	.5	13	SME
		4	1057	50.34	19	20.73	155	3.10	9.46	1.4	.4	10	0	126	.05	2	1.2	2.0	9	SF5
		4	11 1	23.72	19	18.73	155	15.43	8.96	1.9	1.8	35	6	110	.08	4	.4	.5	31	SF1
		4	11 8	45.89	19	23.70	155	5.11	4.05	1.2	.9	16	2	93	.10	2	.6	.6	15	SME
		4	1137	50.85	19	20.77	155	2.52	3.68	2.0	2.1	31	6	147	.11	2	.5	.6	26	SSF
		4	1156	19.51	19	20.39	155	3.12	4.16	1.4	.9	14	3	108	.06	1	.6	.6	14	SSF
		4	1218	32.20	19	23.29	155	6.27	3.83	1.0		12	2	135	.09	1	.8	.5	12	SME
		4	1234	3.11	19	21.51	155	3.43	6.75	1.2		11	1	165	.09	3	.9	1.5	11	SF5
		4	13 1	41.62	19	22.96	155	7.56	3.66	1.0	.6	10	1	137	.07	2	1.1	.7	10	SER
		4	1318	27.95	19	19.26	155	13.86	9.19	1.1	.6	16	2	85	.09	4	.7	1.4	14	SF2
		4	1339	39.60	19	23.42	155	6.08	4.32	1.1	.3	13	2	97	.08	1	.5	.6	13	SME
		4	1349	50.15	19	21.44	155	13.15	14.52	1.3	.7	13	1	106	.09	2	1.1	1.4	12	DEP
		4	1350	16.93	19	21.51	155	13.81	12.63	1.1	.7	13	2	94	.06	2	.9	1.4	11	SF2
		4	1352	18.34	19	21.91	155	1.41	.22	1.4	1.3	17	1	156	.13	5	.5	.7	12	SSF
		4	1419	56.83	19	23.00	155	6.87	3.09	1.8	1.3	15	0	90	.10	1	.5	.4	13	SME
		4	1427	33.68	19	23.63	155	6.06	3.91	1.8	1.1	12	1	100	.04	1	.6	.4	10	SME
		4	15 6	1.57	19	21.12	155	14.10	10.78	1.1	.7	16	2	95	.06	3	.7	1.0	14	SF2
		4	1538	2.61	19	23.13	155	6.44	3.37	1.1	.6	10	1	133	.11	0	.9	.4	7	SME
		4	1559	44.37	19	21.54	155	.74	5.49	1.3	.9	22	1	185	.13	5	.8	1.6	15	SF5
		4	1627	51.42	19	21.43	155	2.42	2.98	2.1	2.2	21	0	191	.14	7	.6	2.6	18	SSF
		4	1637	8.49	19	19.25	155	7.35	3.90	1.2	.6	9	1	117	.04	4	.6	1.4	7	SSF
		4	1646	7.97	19	23.54	155	6.04	3.86	1.1	.6	14	2	98	.05	1	.4	.3	12	SME
		4	1647	56.46	19	20.05	155	13.49	8.98	1.5	1.1	17	1	68	.07	5	.6	1.1	12	SF2
		4	1652	18.30	19	16.84	155	7.53	8.74	1.3	1.2	19	0	219	.10	1	1.1	.7	17	SF4
		4	1724	18.92	19	21.88	154	58.35	7.97	1.6	1.4	18	0	202	.13	6	1.3	1.2	10	LER
		4	1728	45.58	19	23.10	155	6.91	3.43	1.3	1.3	14	1	99	.08	1	.5	.5	8	SME
		4	1738	32.63	19	22.75	155	7.87	3.41	1.2	.9	21	2	99	.10	3	.5	.5	15	SER
		4	1740	20.34	19	22.67	155	7.09	2.94	1.5	.9	15	1	102	.12	2	.9	.6	8	SME
		4	1741	3.31	19	19.63	155	13.74	7.36	1.6		18	2	77	.08	5	.6	1.2	16	SF2
		4	1741	16.83	19	20.05	155	13.73	7.77	1.5	1.1	14	2	71	.07	5	.6	1.3	11	SF2
		4	1744	30.71	19	23.11	155	6.83	3.60	1.0	.3	9	1	136	.07	1	.8	.5	5	SME
		4	1747	28.62	19	19.30	154	52.90	11.43	1.6	1.1	12	0	306	.12	15	5.5	.9	4	LER
		4	1759	59.21	19	19.21	155	7.27	7.30	1.3	.3	16	0	120	.06	4	.6	1.5	14	SF4
		4	18 9	25.48	19	32.22	155	.20	40.12	2.1	1.6	29	1	111	.09	7	.9	2.5	25	HIL
		4	1827	44.16	19	23.28	155	6.81	3.07	1.0		10	2	140	.07	1	.7	.4	7	SME
		4	1844	15.40	19	22.28	155	2.21	8.15	2.3	2.1	39	4	134	.12	5	.5	.5	31	SF5
		4	19 0	11.52	19	21.69	154	58.54	8.38	2.0	1.6	31	0	202	.12	6	1.0	.8	26	LER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DIR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	4	19 8	50.04	19	19.39	155	5.68	6.96	1.4	.7	21	1	149	.08	5	.6	1.3	9	SF4
		4	1946	12.02	19	18.90	155	9.32	6.50	1.1	.3	18	2	105	.08	4	.5	1.4	10	SF3
		4	1948	47.23	19	23.52	155	6.09	3.63	1.0	.6	15	2	99	.07	1	.5	.3	13	SME
		4	2112	45.31	19	18.18	155	11.63	5.55	1.2	.9	17	0	134	.08	4	.6	1.8	10	SF3
		4	2134	47.61	19	23.80	155	4.95	3.77	1.1		15	1	93	.10	2	.5	.5	10	SME
		4	2215	27.27	19	23.45	155	5.91	3.82	1.1	.6	13	1	97	.05	1	.5	.4	12	SME
		4	2218	31.36	19	23.50	155	6.63	2.20	1.6	1.3	14	1	101	.12	1	.6	.4	12	SME
		4	2258	19.78	19	21.65	155	6.60	5.65	1.7	1.5	19	4	119	.15	3	.8	1.3	10	SF4
		4	2312	51.15	19	23.06	155	7.28	3.57	1.5	1.3	20	2	72	.10	2	.5	.6	19	SER
		4	2326	57.07	19	22.96	155	7.10	3.79	1.1	.9	14	1	98	.09	2	.7	.6	14	SME
		5	011	.91	19	23.82	155	6.65	3.72	1.0	.3	15	2	106	.06	2	.5	.5	14	SME
		5	023	6.11	19	23.01	155	5.98	4.27	1.0		13	2	119	.10	1	.9	.6	11	SME
		5	043	12.29	19	22.99	155	6.63	3.91	1.1	.3	13	3	123	.10	1	.7	.5	13	SME
		5	1 0	21.81	19	20.28	155	2.93	7.88	1.6	1.2	24	1	125	.11	1	.6	.9	23	SF5
		5	148	7.23	19	23.23	155	7.06	3.48	.9	.6	16	4	101	.08	1	.5	.4	13	SME
		5	227	15.88	19	20.14	155	13.18	7.93	.9	.3	13	2	66	.06	5	.6	1.4	11	SF2
		5	246	33.41	19	22.89	155	6.64	3.24	1.6	.9	17	4	96	.13	1	.6	.5	16	SME
		5	322	34.34	19	23.22	155	7.60	3.43	1.1	.9	15	2	104	.12	2	.5	.6	15	SER
		5	329	33.43	19	23.17	155	7.48	3.70	1.1	.9	19	3	102	.08	2	.4	.5	18	SER
		5	341	3.31	19	23.02	155	7.84	3.68	1.2	.6	18	2	102	.07	3	.6	.5	17	SER
		5	353	38.25	19	22.92	155	7.56	3.47	1.1	.6	16	3	100	.08	2	.6	.4	15	SER
		5	4 2	11.54	19	22.99	155	6.85	3.45	1.4	1.1	15	2	97	.10	1	.6	.5	15	SME
		5	413	56.63	19	23.79	155	7.96	3.73	.9	.3	13	2	112	.16	3	.9	1.4	13	SER
		5	418	35.22	19	23.41	155	6.88	3.12	1.1	.6	11	3	112	.09	1	.7	.5	11	SME
		5	435	58.90	19	22.98	155	7.52	3.45	1.2	.6	15	3	123	.11	2	.8	.5	15	SER
		5	443	44.58	19	25.58	155	24.88	7.46	1.6	.9	26	3	70	.13	1	.5	.9	24	KAO
		5	451	37.23	19	19.70	155	11.54	8.95	1.3	.3	16	1	91	.05	5	.6	1.4	15	SF3
		5	454	13.03	19	18.77	155	13.54	9.91	3.4	3.7	43	2	80	.13	3	.5	.4	41	SF2 F
		5	5 6	35.62	19	19.04	155	13.56	8.08	1.8	1.5	34	1	70	.11	4	.5	.8	30	SF2
		5	510	32.98	19	23.14	155	7.77	3.55	.8	.3	10	1	143	.08	3	1.1	.7	10	SER
		5	512	40.93	19	23.15	155	6.91	3.20	1.6	1.3	15	3	119	.06	1	.7	.4	15	SME
		5	515	43.37	19	23.19	155	7.54	3.67	1.2	1.1	12	2	137	.08	2	.6	.6	12	SER
		5	516	8.60	19	18.96	155	13.59	8.22	1.7	1.3	21	1	83	.10	4	.6	1.1	20	SF2
		5	524	39.77	19	23.18	155	8.01	3.74	1.0	.9	13	2	114	.10	3	.8	.8	12	SER
		5	541	41.63	19	22.98	155	7.40	3.65	1.0	.9	10	1	123	.12	2	.8	.5	10	SER
		5	545	26.94	19	23.47	155	7.51	3.85	1.5	1.3	19	3	106	.10	2	.5	.7	19	SER
		5	556	12.86	19	23.22	155	7.68	3.40	1.2	.9	16	4	115	.10	3	.7	.5	15	SER
		5	557	.96	19	22.94	155	7.17	3.68	1.1	.9	13	2	99	.10	2	.7	.5	13	SME
		5	6 6	2.49	19	23.38	155	7.05	3.30	1.2	.9	16	3	103	.08	2	.6	.4	16	SME
		5	613	55.92	19	22.74	155	7.84	3.52	1.2	.9	17	2	130	.06	3	.7	.5	17	SER
		5	616	59.27	19	23.00	155	7.34	3.52	1.1	.9	14	2	99	.13	2	.8	.6	14	SER
		5	620	12.99	19	23.02	155	7.03	3.26	1.1	.9	15	1	99	.11	1	.5	.5	14	SME
		5	641	9.77	19	22.83	155	7.74	3.28	1.6	1.6	22	1	94	.08	3	.5	.7	19	SER
		5	642	10.59	19	22.85	155	7.54	3.26	1.6	1.3	16	2	99	.09	2	.6	.6	13	SER
		5	647	21.23	19	23.90	155	5.12	2.99	2.0	1.8	22	2	78	.07	2	.4	.3	14	SME
		5	655	10.31	19	23.37	155	7.85	4.01	1.7	1.1	12	1	106	.13	3	.6	.9	7	SER
		5	7 4	57.85	19	23.03	155	7.36	3.49	1.3	1.1	12	1	100	.12	2	.6	.5	6	SER
		5	711	19.64	19	22.80	155	7.59	3.12	1.9	1.9	20	3	88	.09	2	.4	.4	11	SER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DIR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	5	729	33.75	19	20.80	155	2.97	5.56	2.5	2.3	31	1	119	.13	2	.5	.9	26	SF5
		5	759	24.41	19	22.66	155	7.92	3.30	1.3	1.3	16	1	98	.08	3	.6	.5	14	SER
		5	818	32.17	19	22.58	155	7.36	3.39	1.3	1.1	7	0	180	.06	2	2.9	1.0	7	SER
		5	821	27.13	19	21.37	155	6.31	.31			5	0	220	.02	3	2.3	3.3	5	SSF
		5	828	59.70	19	23.14	155	7.58	2.64	1.9	1.4	9	0	152	.03	2	1.7	.7	9	SER
		5	843	23.99	19	23.38	155	8.17	5.12	1.1	.3	9	1	108	.20	3	1.1	2.1	6	SF4
		5	845	5.39	19	22.22	155	23.99	8.94	1.4	.7	25	3	39	.11	4	.4	.9	15	KAO
		5	851	23.07	19	22.97	155	8.66	3.26	1.1	.3	9	2	161	.10	3	1.3	.6	9	SER
		5	855	58.96	19	23.28	155	7.41	3.21	1.2	.3	16	3	103	.11	2	.5	.5	16	SER
		5	920	13.40	19	22.29	155	6.37	9.80	1.2	.4	11	2	140	.16	1	1.0	1.3	10	SF4
		5	926	27.07	19	12.89	155	2.51	19.77	2.4	1.7	18	1	297	.16	20	4.7	3.2	18	DEP
		5	945	12.74	19	19.65	155	13.66	7.04	1.4	1.1	18	3	76	.07	5	.5	1.1	15	SF2
		5	1024	52.63	19	23.26	155	6.84	3.41	1.5	1.3	16	3	100	.12	1	.6	.4	16	SME
		5	1025	17.25	19	20.63	155	12.68	5.66	1.1	.6	8	0	136	.09	4	.9	2.5	8	SF2
		5	1037	42.70	19	23.54	155	6.69	2.97		.6	12	3	103	.09	1	.6	.3	12	SME
		5	1052	43.30	19	22.82	155	7.84	3.27	1.5	1.3	22	3	100	.08	3	.4	.5	22	SER
		5	1053	26.90	19	18.69	155	13.30	8.40	1.6	1.3	20	3	82	.07	3	.5	1.0	19	SF2
		5	1056	40.92	19	22.33	155	8.34	2.78	1.3	.8	16	2	95	.09	3	.5	.5	16	SER
		5	1056	53.38	19	13.08	155	32.78	6.26	2.5	1.7	27	0	79	.21	6	.8	1.7	18	LSW
		5	11 2	.40	19	24.27	155	15.83	2.82	.6	.5	8	2	133	.03	2	.4	.6	7	SEC
		5	11 6	43.67	19	22.80	155	7.26	2.85	1.3	.6	12	2	97	.10	2	.6	.5	8	SER
		5	1124	52.93	19	23.41	155	6.96	3.05	1.5	.9	13	2	102	.06	1	.5	.4	11	SME
		5	1130	35.74	19	19.41	155	13.16	8.08	2.2	2.1	31	2	75	.12	4	.5	.7	25	SF2
		5	1138	55.05	19	18.73	155	13.50	7.59	1.1	.9	14	0	99	.05	3	.6	1.4	12	SF2
		5	1144	2.67	19	23.95	155	6.89	2.02	1.3	.3	11	1	109	.18	2	.7	.9	9	SME
		5	1144	45.72	19	24.36	155	16.20	2.55	1.0	1.0	9	2	133	.09	1	.5	.6	6	SEC
		5	1145	45.96	19	18.82	155	13.75	7.60	1.4	1.1	20	1	89	.09	3	.6	1.2	13	SF2
		5	12 0	50.21	19	24.26	155	16.31	.63	.9	1.2	13	4	122	.20	2	.3	.5	7	SEC
		5	1213	40.27	19	25.08	155	16.70	2.44	1.1	1.2	11	2	169	.11	1	.6	.4	5	SNC
		5	1217	27.89	19	24.09	155	15.83	2.39	.8	1.0	11	3	120	.08	1	.4	.4	8	SEC
		5	1323	36.05	19	24.26	155	16.99	1.99	1.4	1.2	17	4	80	.07	1	.3	.2	10	SSC
		5	1337	30.10	19	20.38	155	2.44	6.08	2.9	2.7	34	2	170	.11	1	.5	.6	27	SFS
		5	1340	51.17	19	25.53	155	19.96	3.43	1.2		9	1	186	.10	4	1.6	1.3	3	KAO
		5	1342	22.63	19	24.11	155	16.21	2.46	1.3	.8	10	2	115	.08	1	.3	.3	6	SEC
		5	1347	38.58	19	20.16	155	4.46	4.04	2.4	1.9	25	0	131	.11	3	.5	1.1	15	SSF
		5	1354	38.00	19	23.67	155	7.28	4.91	1.3		10	0	107	.13	2	.9	1.6	4	SER
		5	1421	41.88	19	21.49	155	3.01	1.51	1.5		13	0	123	.09	3	.4	.9	7	SSF
		5	1427	7.68	19	20.32	155	4.26	5.33	1.9	.6	21	1	123	.14	2	.7	1.4	17	SFS
		5	1444	57.67	19	24.55	155	16.72	2.48	.9	.2	11	1	123	.06	1	.4	.3	9	SNC
		5	1446	46.10	19	24.56	155	16.79	2.46	1.2	.8	17	6	117	.07	1	.3	.2	13	SNC
		5	1456	31.81	19	22.62	155	7.92	3.56	1.3	.3	12	2	144	.07	3	.8	.6	12	SER
		5	15 1	8.84	19	21.34	155	2.37	3.27	1.5	.6	16	2	141	.10	3	.5	.8	13	SSF
		5	1516	26.24	19	22.03	155	1.50	5.83	2.3	2.2	22	2	152	.07	5	.5	1.0	21	SFS
		5	1525	56.78	19	20.25	155	4.59	4.00	1.7	.9	19	2	126	.09	3	.6	1.2	14	SSF
		5	1526	39.69	19	20.19	155	4.48	4.67	2.6	2.3	33	0	130	.12	3	.6	1.2	27	SSF
		5	1616	2.17	19	23.48	155	15.33	2.54	1.5	1.2	18	3	85	.17	2	.4	.5	12	SEC
		5	1656	.24	19	24.22	155	16.70	1.67	1.4	.8	13	3	100	.12	1	.4	.3	7	SSC
		5	1658	25.25	19	22.95	155	8.41	2.68	1.2		9	0	103	.05	3	.7	.5	8	SER

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	5	1731	6.69	19	24.46	155	16.57	1.64	1.1	.2	16	4	126	.10	1	.3	.3	12	SSC
		5	1742	58.66	19	23.36	155	6.98	3.00	1.6	.6	14	0	102	.07	1	.5	.6	8	SME
		5	1819	55.18	19	18.97	155	13.97	8.24	2.3	1.9	33	0	92	.12	4	.5	.6	27	SF2
		5	1850	52.00	19	24.03	155	17.01	.41	1.1	1.0	16	4	75	.13	1	.2	.2	9	SSC
		5	19	3 14.24	19	24.55	155	16.72	2.37	.9		12	3	122	.08	1	.4	.2	9	SNC
		5	1915	25.91	19	20.25	155	2.72	4.39	2.0	.9	16	1	156	.10	1	1.1	.8	12	SSF
		5	1949	54.09	19	20.79	155	18.29	1.97	2.1	2.2	22	4	59	.11	2	.3	.6	16	SWR
		5	2032	10.26	19	22.70	155	8.83	3.06	1.2	.6	15	2	101	.12	2	.6	.4	9	SER
		5	2032	49.02	19	25.08	155	16.53	1.78	.9	.2	11	2	172	.10	1	.4	.3	6	SNC
		5	2045	27.23	19	20.87	155	18.21	1.71	2.1	2.9	29	4	60	.13	2	.3	.6	22	SWR
		5	2047	44.19	19	20.86	155	18.21	1.89	.9	1.2	12	0	75	.08	2	.4	.7	11	SWR
		5	2114	58.73	19	23.81	155	16.76	2.57	1.0	.2	15	4	70	.08	0	.4	.2	11	SSC
		5	2144	52.56	19	24.48	155	16.85	2.50	1.4	1.2	13	2	103	.05	1	.4	.2	9	SSC
		5	2259	15.27	19	24.64	155	16.61	2.17	1.3	.8	17	3	138	.10	1	.4	.3	9	SNC
		5	23	5 4.19	19	24.36	155	16.63	.98	.9	.8	14	2	114	.10	1	.3	.3	7	SSC
		5	2317	16.82	19	24.18	155	16.89	2.14	1.5	1.0	17	3	85	.12	1	.4	.2	10	SSC
		5	2333	2.87	19	23.32	155	6.98	2.91	1.4		10	0	101	.07	1	.7	.4	8	SME
		6	0	3 19.93	19	19.59	155	10.17	8.15	1.7	1.1	21	2	95	.05	5	.5	1.1	18	SF3
		6	050	39.56	19	20.96	155	17.94	2.15	.8	1.0	11	1	69	.09	2	.3	.5	6	SWR
		6	141	18.72	19	22.96	155	8.81	3.57	1.4	.3	13	0	104	.11	2	.6	.7	8	SER
		6	158	32.06	19	22.53	155	8.96	3.69	1.3	.3	13	0	93	.08	2	.5	.6	6	SER
		6	318	6.54	19	24.33	155	14.21	10.08	1.5	.3	8	0	136	.15	1	2.2	4.5	5	INT
		6	329	48.54	19	23.17	155	6.79	2.65	1.4	.3	13	0	100	.10	1	.6	.5	8	SME
		6	447	18.76	19	25.61	155	28.42	8.93	1.8	1.3	26	1	49	.09	6	.4	.9	19	KAO
		6	518	40.66	19	20.82	155	3.02	6.09	1.7	1.1	30	1	116	.14	2	.6	1.0	18	SF5
		6	523	36.52	19	22.82	155	8.66	3.15	1.4	1.3	13	0	101	.10	3	.5	.7	8	SER
		6	6	9 1.68	19	34.05	155	28.10	4.39	1.7	1.1	7	0	122	.08	5	1.4	5.5	7	MLO
		6	636	30.65	19	23.88	155	4.37	2.19		1.3	11	1	90	.08	1	.5	.3	6	SME
		6	721	27.15	19	23.24	155	7.04	3.02	1.4	1.0	13	0	101	.09	1	.5	.5	12	SME
		6	835	19.38	19	22.99	155	8.81	2.80		.6	9	0	108	.06	3	.6	.5	8	SER
		6	931	34.69	19	22.75	155	8.71	2.68	1.2	.6	11	1	102	.08	2	.8	.4	7	SER
		6	951	53.23	19	21.03	155	3.52	3.65	1.4	.6	9	0	106	.08	2	.7	1.0	5	SSF
		6	1039	.44	19	23.32	155	6.89	3.03	1.4		10	0	102	.09	1	.7	.5	5	SME
		6	1048	59.94	19	23.08	155	8.37	2.92	1.3	.3	10	0	105	.11	3	.5	.7	6	SER
		6	1055	53.60	19	19.05	155	13.69	7.37	1.3	.6	18	1	85	.09	4	.6	1.3	16	SF2
		6	1124	13.02	19	22.54	154	58.86	8.61	2.3	1.9	32	1	183	.14	5	.9	.7	24	LER
		6	1127	27.96	19	18.53	155	13.60	8.68	2.4	2.2	32	4	87	.11	3	.4	.5	23	SF2
		6	1132	27.20	19	22.05	155	1.21	.01	1.5	.6	10	1	181	.17	5	.7	.7	7	SSF *
		6	1143	30.61	19	22.08	155	9.11	3.17	1.3		9	2	133	.09	1	1.0	.5	5	SER
		6	13	7 20.13	19	23.53	155	5.70	3.22	1.4	.3	11	1	96	.08	1	.5	.5	7	SME
		6	1317	26.52	19	22.49	155	8.65	3.14	1.5	1.3	21	3	97	.08	2	.4	.4	15	SER
		6	1356	29.00	19	22.43	155	8.63	3.00	1.3		6	1	142	.03	2	1.5	.5	5	SER
		6	1358	53.99	19	23.42	155	6.97	3.10	1.5	.6	13	1	102	.14	1	.6	.8	11	SME
		6	1359	17.10	19	22.34	155	8.41	3.16	1.3	.6	12	1	96	.10	3	.7	.5	7	SER
		6	1819	47.24	19	21.93	155	.44	9.08	2.4	1.9	33	1	173	.12	6	.9	.6	27	SF5
		6	2055	35.11	19	21.10	155	18.29	2.09	.8	.8	8	0	94	.09	2	.8	1.2	3	SWR
		6	2244	27.76	19	20.18	154	59.51	6.33	2.8	2.3	28	0	209	.13	9	1.0	1.3	23	LER
		6	2254	49.68	19	22.01	155	3.11	1.92	1.4	1.1	7	2	122	.11	4	.7	1.4	4	SSF

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	6	2355	1.53	19	24.01	155	15.59	3.81		1.2	16	1	111	.13	2	.6	.5	11	SEC
		7	0	7 39.44	19	24.42	155	4.43	3.39	1.7	.9	10	1	106	.08	0	.6	.5	5	SME
		7	013	11.69	19	24.46	155	4.36	3.07	1.6	.6	11	1	100	.12	0	.6	.4	7	SME
		7	035	38.68	19	23.88	155	5.28	3.91	1.6	1.1	14	0	96	.07	2	.5	.5	8	SME
		7	052	33.27	19	24.68	155	3.93	2.94	1.5	.3	11	0	91	.10	1	.6	.4	7	SME
		7	1	1 40.89	19	24.24	155	4.26	3.21	1.7	1.8	17	1	83	.09	1	.5	.3	13	SME
		7	119	50.35	19	24.63	155	16.64	1.79	1.4	1.4	13	3	137	.10	1	.4	.3	9	SNC
		7	121	13.60	19	24.70	155	16.81	1.96	1.3	1.7	14	2	131	.09	1	.4	.2	9	SNC
		7	145	22.92	19	24.34	155	4.27	3.27	1.5	.9	14	1	95	.08	0	.5	.4	7	SME
		7	158	55.74	19	24.47	155	4.57	3.12	1.5	1.1	12	0	78	.12	1	.5	.4	4	SME
		7	218	3.63	19	24.25	155	4.40	2.99	1.5	.6	13	0	91	.11	1	.5	.4	9	SME
		7	219	15.72	19	19.53	155	7.35	6.59	1.4	.3	15	1	111	.12	4	.7	1.7	10	SF4
		7	220	40.06	19	24.67	155	17.13	1.81	.9	.5	13	3	61	.06	0	.4	.2	9	SNC
		7	224	43.51	19	24.05	155	4.42	4.77	1.4	.9	17	2	83	.12	4	.5	1.7	11	SME
		7	227	47.71	19	24.02	155	4.70	3.80	1.4	.9	13	2	93	.12	3	.6	1.4	8	SME
		7	236	38.07	19	21.23	155	4.44	7.65	1.6	.9	14	2	89	.11	4	.6	1.2	7	SF5
		7	243	14.88	19	24.21	155	4.24	2.97	2.0	1.9	24	1	84	.09	1	.5	.4	15	SME
		7	3	4 36.83	19	23.96	155	5.23	4.98	1.3	.6	11	0	97	.10	2	.7	1.7	6	SME
		7	3	7 36.49	19	21.81	155	2.20	6.80	2.1	2.0	16	0	187	.07	7	.9	1.8	12	SF5
		7	310	38.66	19	21.47	155	1.63	1.54	1.4	.9	8	1	183	.04	4	.7	.9	4	SSF
		7	315	30.74	19	23.89	155	5.22	3.79	1.7	1.8	10	0	96	.04	2	.5	.6	9	SME
		7	316	4.63	19	21.49	154	59.85	11.15	1.8	.4	6	0	226	.07	6	2.3	1.1	2	LER
		7	319	49.65	19	24.52	155	3.53	3.08	1.5	.6	12	1	91	.07	1	.5	.4	9	SME
		7	326	52.71	19	24.33	155	4.46	3.29	1.4	.3	12	1	93	.09	1	.6	.4	9	SME
		7	331	9.27	19	24.60	155	3.51	3.35	1.6	.9	12	1	90	.07	1	.6	.7	7	SME
		7	333	36.41	19	24.57	155	3.40	4.12	1.4	.9	11	1	92	.06	2	.5	.9	7	SME
		7	338	11.34	19	26.68	155	18.00	5.40	2.4	2.1	17	0	162	.15	4	.8	1.7	12	INT
		7	349	18.57	19	24.65	155	3.64	4.76	1.4	.9	12	0	88	.05	1	.6	.9	11	SME
		7	352	14.63	19	24.59	155	3.54	2.09	1.4	.6	10	2	92	.09	1	.5	.3	9	SME
		7	4	0 31.02	19	24.70	155	3.77	7.49	1.4	.7	13	2	101	.14	1	.8	1.1	12	SF5
		7	4	0 59.68	19	24.59	155	3.72	4.97	1.4	.9	13	2	95	.09	1	.6	.7	11	SME
		7	4	3 32.35	19	24.46	155	3.38	6.29	1.6	.9	12	2	93	.10	2	.6	.9	11	SF5
		7	4	4 58.44	19	24.68	155	3.35	3.19	1.4	.6	10	2	95	.05	2	.4	.5	9	SME
		7	4	5 53.14	19	24.47	155	16.38	2.53	1.4	.8	17	4	133	.11	1	.4	.2	15	SEC
		7	4	6 30.27	19	24.80	155	16.75	2.12	1.5	1.4	18	4	142	.08	0	.4	.2	16	SNC
		7	4	7 20.06	19	24.34	155	3.43	5.29	1.8	.9	15	2	94	.10	2	.6	.9	14	SF5
		7	4	8 52.10	19	24.60	155	3.41	7.98	1.6	.9	9	1	91	.07	2	.6	1.2	8	SF5
		7	412	34.35	19	24.52	155	3.42	6.18	1.4	.7	10	2	92	.08	1	.7	1.0	9	SF5
		7	415	2.68	19	24.11	155	3.65	4.04	1.6	1.1	12	2	93	.12	1	.5	.6	11	SME
		7	416	59.71	19	23.43	155	2.11	.01	1.5	1.1	9	2	131	.12	4	.4	.9	8	SME *
		7	417	21.54	19	24.57	155	3.70	7.22	1.4	.9	12	2	93	.08	1	.7	.9	11	SF5
		7	419	12.06	19	24.98	155	4.35	6.66	1.8	.7	17	2	97	.12	1	.6	.9	17	SF5
		7	424	7.95	19	24.57	155	3.46	6.82	1.6	.7	17	1	90	.07	1	.5	.9	15	SF5
		7	426	2.67	19	20.20	155	2.51	3.27	2.1	1.7	24	2	180	.12	1	.7	.4	22	SSF
		7	427	5.48	19	24.55	155	5.06	5.03	1.6	.6	13	2	101	.11	1	.6	.9	12	SF5
		7	432	55.87	19	24.35	155	2.98	8.00	1.5	.9	9	1	100	.10	2	.8	1.2	9	SF5
		7	435	24.55	19	24.42	155	2.91	3.20	1.4	.3	12	0	102	.12	2	.6	.7	12	SME
		7	446	17.76	19	24.34	155	16.58	3.10	1.3	.8	13	2	121	.10	1	.3	.3	12	SSC

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	ND FM	REMK	
1983	JAN	7	453	33.87	19	23.89	155	15.97	3.08	1.9	1.4	20	4	106	.12	1	.4	.3	18	SEC	
		7	459	6.92	19	24.69	155	16.70	2.22	.9	.8	9	2	143	.07	1	.4	.3	9	SNC	
		7	5 4	6.39	19	24.74	155	4.03	3.81	1.4	.6	7	1	105	.08	1	.7	.7	4	SME	
		7	5 5	43.07	19	24.00	155	16.81	2.76	1.3	.8	13	2	83	.07	0	.4	.3	9	SSC	
		7	5 9	20.93	19	25.39	155	3.94	3.58	1.7	.3	8	0	96	.11	2	.7	.8	4	SME	
		7	511	52.81	19	25.57	155	3.07	.43	1.5	.3	7	0	132	.07	3	.5	1.0	3	SME	
		7	512	41.20	19	24.35	155	5.58	4.67	1.3	.3	7	0	103	.25	2	1.3	2.3	6	SME	
		7	522	17.24	19	24.25	155	5.97	8.08	1.6	.4	6	0	105	.10	2	.9	2.2	5	SF4	
		7	524	14.05	19	24.79	155	3.41	3.48	1.5	.3	7	0	98	.04	2	.6	.6	5	SME	
		7	524	58.96	19	24.73	155	3.67	3.43	1.4	.3	8	1	101	.07	1	.5	.4	5	SME	
		7	527	14.89	19	24.74	155	3.06	2.79	1.4	.3	9	0	94	.10	2	.6	.5	5	SME	
		7	530	16.72	19	24.74	155	3.24	2.18	1.4		8	1	92	.09	2	.5	.5	4	SME	
		7	537	13.80	19	24.66	155	4.00	4.76	1.5		5	0	103	.06	9	1.3	42.1	3	SME	*
		7	541	.49	19	25.14	155	9.60	4.38	1.9	.9	11	0	139	.13	9	1.1	38.6	8	SER	*
		7	543	9.21	19	24.70	155	3.09	5.58	1.7		5	0	94	.14	8	3.2	23.7	3	SF5	*
		7	548	40.70	19	24.61	155	3.84	3.61	1.5		7	1	100	.07	1	.6	.6	4	SME	
		7	549	10.54	19	24.84	155	3.24	3.25	1.6	.3	9	1	97	.05	2	.5	.5	6	SME	
		7	6 2	19.93	19	24.74	155	3.43	2.66	1.8		7	0	98	.07	2	.6	.6	4	SME	
		7	6 2	41.69	19	20.71	155	3.92	4.36	1.5		7	0	99	.08	2	.9	1.5	3	SSF	
		7	617	30.30	19	24.48	155	3.77	3.35	1.4		5	0	164	.00	1	.9	.6	3	SME	
		7	621	53.50	19	24.58	155	4.10	3.00	1.5		6	0	106	.08	0	.5	.4	3	SME	
		7	631	33.97	19	24.79	155	3.10	3.55	1.6		9	0	93	.09	2	.6	.8	2	SME	
		7	634	57.67	19	24.10	155	4.29	2.79	2.3	2.2	30	2	84	.12	1	.4	.4	23	SME	
		7	635	54.67	19	24.28	155	4.32	3.28	1.5	.9	12	0	92	.06	1	.6	.6	10	SME	
		7	642	41.03	19	24.78	155	16.53	1.85	1.1	.5	19	5	143	.12	1	.4	.3	15	SNC	
		7	653	34.37	19	24.46	155	4.36	3.18	1.6		13	2	93	.07	0	.5	.4	11	SME	
		7	7 7	7.73	19	24.66	155	3.89	3.39	1.5		15	3	102	.08	1	.6	.4	14	SME	
		7	720	14.18	19	24.44	155	16.96	2.53	1.5	1.2	18	5	88	.11	1	.4	.2	15	SSC	
		7	742	24.57	19	24.28	155	4.31	3.02			12	3	91	.04	1	.5	.3	10	SME	
		7	750	46.16	19	24.46	155	4.39	3.35	1.6	.3	16	3	93	.07	0	.5	.3	13	SME	
		7	758	3.18	19	24.64	155	4.81	3.60	1.8	1.3	16	4	99	.10	1	.5	.4	14	SME	
		7	827	44.99	19	24.51	155	4.53	4.18	1.4	.9	15	3	95	.10	1	.4	.5	14	SME	
		7	829	8.21	19	23.53	155	4.01	2.42	1.8	.6	13	3	92	.10	2	.4	.4	11	SME	
		7	834	51.92	19	24.63	155	16.73	2.84	1.5	1.7	13	4	131	.05	1	.4	.3	11	SNC	
		7	846	11.90	19	24.05	155	3.74	8.08	1.6		14	3	92	.13	1	.7	1.0	11	SF5	
		7	849	47.97	19	24.48	155	3.51	2.43	1.5	.3	14	3	91	.11	1	.5	.4	13	SME	
		7	850	41.27	19	24.47	155	4.51	3.28	1.7	.3	14	3	94	.06	0	.5	.4	13	SME	
		7	9 4	30.39	19	24.53	155	16.77	3.18	1.4	1.2	18	5	116	.10	1	.4	.2	15	SSC	
		7	911	18.13	19	24.74	155	3.52	5.42	1.4		11	2	93	.03	1	.5	.9	10	SF5	
		7	920	5.81	19	21.33	155	4.02	9.69	1.4		14	1	81	.09	3	.7	1.4	11	SF5	
		7	923	49.25	19	24.52	155	4.53	3.43	1.5		13	3	96	.08	1	.5	.3	11	SME	
		7	925	23.99	19	24.33	155	4.35	3.24	2.4	2.0	28	3	82	.08	0	.4	.3	26	SME	
		7	926	46.93	19	24.32	155	4.20	3.13	1.4		14	3	83	.08	0	.6	.4	13	SME	
		7	927	3.24	19	24.70	155	3.16	4.36	1.6	.3	11	1	93	.10	2	.6	.7	10	SME	
		7	10 9	2.26	19	24.45	155	4.32	3.29	2.0	1.3	18	3	93	.06	0	.5	.3	17	SME	
		7	1010	28.33	19	24.37	155	4.61	3.68	1.4	.6	15	3	95	.06	1	.5	.4	14	SME	
		7	1014	40.68	19	20.48	155	3.45	13.00	1.6	.1	8	1	96	.11	1	1.3	3.0	7	SF5	
		7	1017	37.41	19	25.39	155	3.12	.61	1.5		10	3	110	.06	3	.4	.4	9	SME	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	ND FM	REMK
1983	JAN	7	1020	54.07	19	19.08	155	12.07	7.25	1.6	1.1	21	3	100	.09	5	.5	1.2	19	SF3
		7	1025	3.51	19	24.54	155	17.01	2.08	.8		10	2	85	.08	1	.4	.3	8	SSC
		7	1026	43.43	19	20.32	155	11.99	9.58	1.4		17	1	76	.07	5	.7	1.2	16	SF3
		7	1037	44.36	19	24.57	155	4.07	2.77	1.4	.3	15	3	91	.09	0	.5	.3	14	SME
		7	1047	51.28	19	23.84	155	5.00	4.66	1.3	.3	14	2	94	.07	2	.6	.6	14	SME
		7	1051	22.20	19	22.49	154	58.68	6.54	1.4	.4	20	1	183	.11	5	.9	1.4	19	LER
		7	1053	20.32	19	23.81	155	4.27	3.66	1.5		5	1	177	.02	1	1.0	.6	2	SME
		7	1055	45.21	19	21.87	155	1.07	8.03	1.4	1.0	23	1	164	.10	5	.7	1.0	14	SF5
		7	1058	4.58	19	24.18	155	3.49	3.34	1.5		7	1	95	.10	2	.7	.8	3	SME
		7	1058	52.74	19	24.40	155	4.33	3.65	1.7	.6	12	2	105	.07	0	.5	.4	4	SME
		7	1311	32.79	19	18.40	155	3.20	2.65	2.1	2.3	23	0	206	.12	3	1.2	.7	14	SSF
		7	1356	11.95	19	24.56	155	16.70	1.86	1.3	.8	15	3	125	.11	1	.4	.3	8	SNC
		7	1437	43.67	19	24.71	155	17.15	2.17	.8	.8	16	5	67	.09	0	.4	.2	9	SNC
		7	1458	42.71	19	22.18	155	.96	3.41	1.6		16	2	185	.13	5	1.5	2.5	5	SSF
		7	1534	38.85	19	21.22	155	3.36	4.30	1.6	.6	19	2	109	.21	3	1.0	1.9	7	SSF
		7	1621	25.79	19	22.51	155	1.73	1.47	1.4		13	1	141	.10	5	.7	2.1	7	SSF
		7	1631	58.17	19	24.37	155	4.43	3.08	1.5	.3	11	2	94	.11	0	.6	.4	4	SME
		7	17 0	20.54	19	24.36	155	4.19	3.61	1.5		9	1	84	.08	0	.6	.6	5	SME
		7	1737	46.40	19	19.25	155	7.29	7.82	1.6	.3	19	0	119	.10	4	.7	1.6	14	SF4
		7	1740	49.18	19	24.69	155	16.45	2.71	.6		10	2	157	.05	1	.5	.4	5	SNC
		7	1912	2.95	19	23.33	155	2.65	7.43	1.6		6	0	156	.01	6	1.0	2.3	4	SF5
		7	1919	2.79	19	20.41	155	6.73	7.27	1.3	.3	15	0	104	.09	6	.6	1.7	8	SF4
		7	1930	53.67	19	24.56	155	4.34	3.33	1.4		12	1	94	.08	0	.5	.5	5	SME
		7	1934	46.22	19	24.54	155	4.50	3.37	1.6		12	3	95	.07	0	.6	.4	11	SME
		7	2020	23.07	19	20.56	155	13.59	7.91	.9		13	1	64	.08	4	.6	1.7	12	SF2
		7	2026	36.43	19	24.28	155	4.70	3.56	1.6	.9	19	4	95	.08	1	.5	.4	17	SME
		7	2029	25.42	19	23.49	155	4.07	.95	1.5	.3	10	2	94	.06	2	.3	.5	10	SME
		7	21 2	40.30	19	20.91	155	4.93	4.42	1.5	.3	12	2	102	.08	4	.5	1.1	11	SSF
		7	2124	50.42	19	20.92	155	1.52	7.14	2.6	2.4	40	6	178	.11	3	.4	.5	34	SF5
		7	2133	9.91	19	24.50	155	4.56	2.96	2.4	2.2	30	4	78	.09	1	.4	.3	29	SME
		7	2141	47.96	19	20.89	155	18.05	2.33	.8	1.6	13	1	72	.11	2	.4	.7	12	SWR
		7	2324	9.88	19	24.90	155	15.86	2.90	1.5	1.0	18	5	152	.07	2	.3	.3	14	SNC
		7	2340	35.86	19	19.79	155	6.24	8.90	2.5	2.3	39	8	127	.11	5	.4	.6	32	SF4
		7	2354	44.76	19	19.37	155	8.65	7.16	1.8	1.1	25	4	81	.10	4	.5	1.2	22	SF4
		8	043	.34	19	24.10	155	15.78	2.89	1.3		20	5	118	.10	2	.4	.2	18	SEC
		8	1 5	5.54	19	24.74	155	17.48	1.92	1.2	.8	19	5	77	.11	1	.4	.2	16	SNC
		8	154	40.89	19	18.77	155	15.37	8.39	1.0	.3	14	0	123	.03	4	.7	1.5	13	SF1
		8	219	20.58	19	21.30	155	2.67	4.12	1.3		15	4	139	.09	3	.5	.9	12	SSF
		8	219	58.13	19	21.64	155	2.18	6.30	1.8	.7	24	5	143	.14	3	.5	.9	22	SF5
		8	221	47.21	19	22.29	155	2.35	4.08	1.5	.3	20	2	130	.16	5	.5	1.5	18	SSF
		8	326	11.53	19	22.44	155	30.25	9.39	1.6	.7	28	2	47	.10	5	.4	1.0	23	KAD
		8	345	17.84	19	21.32	155	2.69	3.33	1.4	.9	19	4	130	.13	3	.4	.8	18	SSF
		8	425	34.22	19	23.85	155	4.86	5.37	1.3		12	1	93	.08	2	.6	.8	12	SF5
		8	426	31.62	19	21.06	155	2.84	6.84	2.0	.7	17	3	133	.10	2	.5	.8	16	SF5
		8	437	29.11	19	23.58	155	5.60	3.65			12	2	96	.11	2	.6	.5	12	SME
		8	5 3	13.04	19	21.13	155	18.03	2.04	.9	.8	14	1	70	.10	2	.3	.7	13	SWR
		8	622	17.77	19	23.61	155	1.77	6.42	1.6	.4	20	3	128	.13	5	.6	.9	18	SF5
		8	632	4.44	19	21.33	155	2.37	5.31	1.6	.7	24	3	141	.15	3	.6	1.1	22	SF5

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	8	928	38.46	19	20.11	154	54.15	6.18			16	3	239	.09	12	.8	3.6	15	LER
		8	940	24.86	19	20.80	155	2.21	7.86	1.4		13	1	161	.11	2	.7	1.0	12	SFS
		8	947	44.19	19	22.14	155	1.03	3.87	1.7	.6	20	2	168	.16	5	.7	2.1	12	SSF
		8	1033	16.63	19	20.68	155	2.07	4.23	1.4	.3	17	2	179	.24	2	1.5	1.5	8	SSF
		8	1037	39.48	19	19.16	155	8.73	5.34	1.3		10	1	102	.09	4	.7	1.8	7	SF4
		8	1138	8.43	19	18.83	155	13.20	5.62	1.0		17	1	82	.07	3	.5	1.4	15	SF2
		8	1245	54.82	19	20.75	155	3.06	7.63	1.6	.9	19	1	113	.08	2	.5	.9	9	SF5
		8	1424	35.33	19	18.91	155	13.48	8.82	1.6	1.1	19	0	81	.07	4	.6	1.1	16	SF2
		8	1450	15.20	19	22.22	155	15.59	33.58	3.1	3.0	48	2	56	.10	1	.6	1.0	45	DEP
		8	1728	30.54	19	21.90	155	1.98	1.25	1.5	.3	14	3	152	.11	4	.4	.8	8	SSF
		8	1755	55.50	19	19.71	155	2.73	5.58	2.0	.7	18	3	191	.08	1	.5	.8	8	SF5
		8	1828	.88	19	19.83	155	8.46	3.12	.9		12	0	136	.12	5	.6	1.3	10	SSF
		8	1853	4.83	19	22.32	155	2.96	1.73	1.6	.3	17	2	114	.16	4	.5	1.4	7	SSF
		8	20 8	53.73	19	21.08	155	17.48	1.94	1.7	1.7	18	1	67	.12	2	.3	.6	14	SWR
		8	2148	7.53	19	19.15	155	9.88	7.07	1.5	.3	18	1	104	.06	5	.6	1.1	17	SF3
		8	2321	28.01	19	19.92	155	12.21	8.64	1.5	.6	17	2	81	.06	5	.6	1.1	14	SF3
		8	2344	44.61	19	19.24	155	11.29	3.41	1.0		16	4	103	.10	6	.4	1.4	9	SSF
		8	2349	48.06	19	20.21	155	.81	3.13	1.5		10	0	204	.11	4	1.6	.9	4	SSF
		9	017	17.21	19	21.96	155	18.12	3.11	.6		12	2	77	.08	3	.4	.8	9	SWR
		9	242	24.51	19	20.26	155	12.63	7.12	.8		12	1	75	.05	4	.6	1.5	9	SF2
		9	440	12.28	19	21.70	155	6.30	7.54	.7		15	0	104	.07	6	.6	1.7	9	SF4
		9	5 3	31.47	19	11.59	155	34.56	4.62	2.6	1.6	34	1	125	.16	10	.6	2.2	23	LSW
		9	551	46.74	19	20.05	155	10.08	8.43	1.3		12	0	138	.03	4	1.2	2.5	10	SF3
		9	556	39.51	19	22.48	155	8.63	2.76	1.4	.8	18	0	92	.15	2	.7	.6	13	SER
		9	653	.18	19	20.36	155	6.80	6.39	1.1		17	1	104	.08	6	.6	1.6	15	SF4
		9	659	40.54	19	21.80	155	1.79	4.89	2.0	1.1	26	5	150	.13	4	.5	1.4	14	SSF
		9	7 1	4.73	19	21.56	155	1.62	5.51	2.0	1.5	24	3	159	.14	4	.7	1.4	16	SF5
		9	742	10.92	19	23.43	155	1.44	6.45	1.6	.9	15	0	195	.08	5	.7	1.4	15	SF5
		9	754	20.67	19	24.50	155	.93	4.60	1.2	1.1	14	0	176	.10	4	.8	1.7	10	SME
		9	10 1	5.97	19	22.23	155	17.38	25.64		1.5	37	1	37	.12	2	.7	1.0	27	DEP
		9	1120	29.08	19	22.32	154	59.66	8.40	1.7	1.4	28	0	181	.12	5	.9	1.1	20	LER
		9	1210	19.08	19	23.23	155	7.17	3.57		.3	5	0	120	.02	2	.6	.7	3	SME
		9	1233	25.38	19	20.13	155	4.32	5.28	1.8	1.5	14	0	133	.07	2	.6	1.6	9	SF5
		9	1236	28.45	19	22.14	155	1.96	7.17	1.4	.9	12	3	150	.10	4	.6	.8	5	SF5
		9	13 5	42.64	19	19.63	155	8.59	6.14	1.3	.6	12	0	79	.10	4	.6	1.7	8	SF4
		9	1331	31.40	19	21.09	155	1.32	.91		.6	5	0	185	.06	4	2.1	2.9	5	SSF
		9	1447	33.84	19	21.16	155	3.01	8.47	2.3	2.3	20	1	123	.08	2	.6	.9	16	SF5
		9	1622	48.49	19	18.78	155	13.17	6.15	1.3	.5	23	1	83	.09	3	.5	1.2	14	SF2
		9	1758	7.56	19	24.73	155	17.03	2.44	.9	.2	6	0	146	.01	0	1.1	.5	5	SNC
		9	1913	27.20	19	20.96	155	4.19	5.18	1.5	.8	21	1	94	.14	3	.6	1.4	13	SF5
		9	1918	43.83	19	21.46	155	16.65	25.62	1.9	1.1	34	0	63	.09	2	.7	1.0	29	DEP
		9	20 7	45.08	19	22.74	155	2.65	5.99	1.4		17	1	129	.14	4	.7	1.4	11	SF5
		9	2044	25.15	19	18.77	155	15.50	7.74	1.0		14	0	124	.07	4	.6	1.5	13	SF1
		10	216	17.20	19	18.73	155	15.34	5.39	.8		20	1	109	.13	4	.5	1.8	18	SF1
		10	237	24.16	19	22.49	155	1.69	3.79	1.6		19	3	142	.15	5	.6	1.6	11	SSF
		10	422	51.33	19	20.87	155	3.29	5.13	1.5		25	3	101	.16	2	.5	1.0	16	SF5
		10	453	19.71	19	20.36	155	3.37	8.31	1.6		18	0	99	.09	1	.6	1.0	9	SF5
		10	529	43.50	19	22.28	155	1.71	.95	1.4		14	2	163	.12	5	.5	.8	6	SSF

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	10	721	5.93	19	22.50	155	2.60	7.98	2.2	2.0	17	1	160	.10	5	1.0	1.3	12	SF5
		10	730	15.32	19	21.62	155	1.37	.04		.8	10	0	172	.08	4	.8	1.3	5	SSF
		10	754	2.53	19	21.42	155	30.37	9.66	1.5		22	1	48	.09	5	.4	1.0	16	KAO
		10	946	19.69	19	21.20	155	2.75	4.65	1.5		20	3	137	.20	2	1.0	1.6	7	SSF
		10	1233	16.82	19	18.61	155	13.30	8.08	1.5	1.1	16	1	83	.08	3	.7	1.4	13	SF2
		10	1550	37.76	19	26.66	155	45.15	5.14	2.6	2.7	32	3	73	.12	7	.5	2.6	22	KON
		10	2123	30.59	19	19.30	155	8.81	7.21	1.5	.9	19	0	86	.08	4	.6	1.4	17	SF4
		10	2251	1.49	19	13.17	155	30.22	9.16	1.4		24	0	70	.13	4	.5	1.0	15	LSW
		11	051	57.18	19	19.90	155	13.01	7.92	1.5	1.1	19	1	71	.07	5	.6	1.1	15	SF2
		11	136	.92	19	20.17	155	12.93	8.35	1.6	1.3	21	2	70	.08	5	.6	1.0	17	SF2
		11	329	54.92	19	19.84	155	6.96	4.60	1.0	.3	13	0	139	.09	5	.7	3.2	9	SSF
		11	342	17.29	19	19.29	155	10.40	6.58	1.0	.3	10	0	119	.03	5	.9	3.0	9	SF3
		11	810	.61	19	32.84	155	37.63	6.74	1.7	1.2	28	2	120	.19	7	.7	1.7	22	MLO
		11	917	59.50	19	18.75	155	14.18	7.22	1.6	1.3	20	1	102	.10	3	.6	1.1	17	SF2
		11	1355	52.22	19	18.37	155	12.77	7.20	1.6	.9	18	1	105	.08	3	.6	1.3	12	SF2
		11	1417	49.99	19	40.51	155	3.70	11.15	2.8	2.3	26	0	204	.15	28	1.0	1.1	19	HIL L
		11	1449	55.56	19	20.23	155	3.96	4.15	1.4	1.1	16	0	126	.08	2	.6	.9	10	SSF
		11	1523	49.83	19	21.24	155	.56	2.16	1.7	.6	24	2	185	.16	5	.8	1.4	15	SSF
		11	1546	58.96	19	19.87	155	7.37	6.52	1.4	.9	18	1	104	.10	5	.9	2.7	15	SF4
		11	1722	28.48	19	21.12	155	2.61	3.39	1.6	1.6	17	1	136	.08	2	.5	.7	13	SSF
		11	1737	51.52	19	19.84	155	13.55	7.35	1.1	.3	17	1	71	.06	5	.5	1.2	12	SF2
		11	18 2	23.49	19	20.73	155	6.20	6.82	1.5	.3	20	2	103	.10	4	.5	1.0	12	SF4
		11	1932	13.03	19	19.56	155	7.35	7.23	1.5	.9	23	3	110	.09	4	.6	1.3	17	SF4
		11	1949	46.95	19	22.86	155	7.48	2.97	1.2	.8	13	1	101	.07	2	.7	.5	9	SER
		11	21 6	8.15	19	19.37	155	11.18	8.87	2.1	1.1	23	1	100	.06	6	.5	1.0	22	SF3
		11	23 4	24.19	19	22.79	155	26.87	9.79	1.6	.9	26	2	44	.09	1	.4	.8	16	KAO
		12	311	37.53	19	19.75	155	12.65	7.52	1.5	.9	18	1	78	.07	5	.6	1.1	14	SF2
		12	5 9	9.79	19	20.45	155	6.69	9.85	1.4	.7	22	1	104	.08	5	.6	1.2	15	SF4
		12	755	11.83	19	21.98	155	1.38	6.41	1.6	.3	24	2	156	.14	5	.7	1.1	13	SF5
		12	1032	57.88	19	20.61	155	3.29	6.20	1.2	.3	11	1	102	.05	1	.6	1.1	9	SF5
		12	1328	21.40	19	20.13	155	12.06	8.27	1.6	1.1	21	3	79	.06	5	.5	.9	16	SF3
		12	1347	39.40	19	19.90	155	26.21	29.07	2.0	1.2	35	1	55	.10	5	.7	1.5	30	DML
		12	1417	48.58	19	22.45	155	24.72	10.33	1.7	1.2	31	1	51	.10	5	.4	.7	24	KAO
		12	1743	43.65	19	18.18	155	16.38	5.06	1.4	1.1	23	3	120	.10	4	.5	1.2	14	SF1
		12	1843	28.87	19	23.32	155	1.65	3.23	1.5	1.1	14	0	174	.11	5	.8	1.4	6	SSF
		12	21 0	25.33	19	22.50	155	1.79	1.80	1.3	1.1	19	2	166	.13	6	.6	1.1	8	SSF
		13	129	38.13	19	25.70	155	24.50	8.26	1.8	.9	31	3	47	.11	1	.4	.9	23	KAO
		13	137	9.18	19	19.42	155	13.68	8.09	1.3	.3	16	1	78	.08	4	.6	1.3	12	SF2
		13	151	22.79	19	26.28	155	28.34	8.54	1.6	.4	25	2	63	.09	6	.4	1.1	16	KAO
		13	413	16.70	19	16.31	155	14.75	8.71	1.5	.7	17	0	236	.06	3	1.4	1.4	9	SF1
		13	450	53.48	19	24.40	155	.33	5.95	1.3		14	1	180	.11	3	.8	1.1	8	SF5
		13	5 3	8.46	19	21.38	155	2.78	6.54	1.3	.3	22	1	133	.13	3	.7	1.0	9	SF5
		13	536	1.05	19	21.99	155	2.59	7.51	1.3	.4	18	2	141	.14	4	.6	.9	6	SF5
		13	6 2	31.01	19	19.72	155	8.07	8.26	1.3	.6	17	0	90	.08	4	.6	1.5	10	SF4
		13	640	8.82	19	20.79	155	3.74	6.16	1.2		18	0	91	.10	2	.6	1.2	9	SF5
		13	838	19.09	19	16.70	155	15.45	3.90	1.1	.6	18	1	210	.12	4	.8	1.1	15	SSF
		13	852	35.02	19	17.03	155	15.53	11.12	3.0	3.0	29	0	151	.10	6	.7	.5	22	SF1
		13	9 9	16.75	19	19.63	155	8.03	6.30	1.3	.9	21	3	92	.07	4	.6	1.3	14	SF4

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JAN	13	1141	44.46	19	20.13	155	9.40	7.02	1.4	1.1	22	3	79	.09	4	.6	1.0	17	SF3	
		13	1443	.57	19	19.68	155	10.95	9.06	1.4	.3	18	1	93	.08	5	.7	1.3	12	SF3	
		13	1655	21.66	19	20.22	155	13.11	7.49	.9		13	1	66	.05	4	.5	1.5	12	SF2	
		13	1948	25.31	19	17.64	155	20.85	7.79	1.4	1.3	28	2	129	.12	4	.5	1.2	17	SWR	
		13	22 8	14.39	19	20.76	155	7.95	9.39	1.5	1.4	22	1	81	.05	4	.6	1.1	19	SF4	
		13	2226	43.38	19	20.88	155	3.02	8.54	1.8	.9	18	1	116	.08	2	.7	1.0	11	SF5	
		14	038	25.90	19	9.50	155	24.56	43.00	2.0	1.2	37	2	221	.08	9	1.1	1.3	30	LOI	
		14	135	59.76	19	20.43	155	9.60	7.28	1.1		17	3	102	.06	3	.6	1.0	8	SF3	
		14	2 5	31.96	19	25.91	155	25.15	6.91	1.1	.6	15	1	74	.09	1	.5	1.2	12	KAO	
		14	310	34.90	19	21.36	155	17.19	1.53	2.5	3.2	31	2	50	.13	2	.3	.4	19	SWR	
		14	522	57.68	19	18.87	155	13.73	7.02	1.3	.6	18	2	88	.10	3	.6	1.2	13	SF2	
		14	548	11.06	19	21.93	155	1.14	4.46	1.9	1.1	24	1	162	.14	5	.6	2.6	18	SSF	
		14	6 9	1.30	19	20.17	155	3.93	4.81	1.5	.9	16	2	130	.06	2	.5	1.1	12	SSF	
		14	6 9	28.92	19	21.66	155	3.47	1.80	1.3	.3	13	2	100	.12	3	.4	.9	8	SSF	
		14	617	59.61	19	20.55	155	9.18	11.43	1.5	.7	25	3	69	.06	3	.6	1.0	18	SF3	
		14	646	22.34	19	19.06	155	9.69	3.40	1.0	.3	18	1	105	.08	4	.4	1.3	14	SSF	
		14	7 9	52.21	19	19.02	155	8.94	8.03	1.9	1.8	35	1	96	.09	4	.5	.7	25	SF4	
		14	747	59.72	19	20.07	155	6.46	6.63	1.1	.9	17	0	116	.07	5	.5	1.3	9	SF4	
		14	759	44.07	19	20.81	155	7.97	8.11	1.6	1.1	21	2	79	.06	4	.6	1.1	15	SF4	
		14	1032	35.63	19	22.13	155	15.44	33.37	2.3	2.1	38	0	57	.08	1	.8	1.2	34	DEP	
		14	15 0	46.94	19	19.56	155	6.76	6.77	1.6	1.5	21	0	124	.09	5	.6	1.6	18	SF4	
		14	1522	39.87	19	20.96	155	2.28	2.73	1.0	.6	6	1	173	.04	2	1.8	2.3	6	SSF	
		14	1910	46.74	19	19.85	155	11.77	6.35	1.8	2.3	26	1	86	.09	5	.5	1.0	21	SF3	
		14	2028	27.08	19	20.02	155	8.22	8.62	2.1	2.5	37	2	83	.07	5	.4	.6	26	SF4	
		14	2313	20.78	19	22.99	155	2.17	3.32	1.3	1.1	16	2	193	.09	5	.7	1.1	9	SSF	
		15	029	35.81	19	37.28	156	26.60	13.70	3.2	3.0	44	3	238	.13	64	1.8	3.5	32	DIS	
		15	036	3.78	19	3.96	155	20.96	31.14	2.0	1.5	32	0	209	.07	16	1.0	1.9	28	LOI	
		15	111	32.51	19	20.13	155	8.14	6.55	1.1	.6	14	1	84	.11	5	.7	1.2	6	SF4	
		15	210	53.70	19	24.85	155	51.37	8.05	1.7	1.3	19	2	136	.12	10	.7	1.5	8	KON	
		15	3 8	2.52	19	20.64	155	9.02	11.03	1.0	.4	18	2	68	.10	3	.7	1.2	12	SF4	
		15	420	42.04	19	20.56	155	7.40	7.87	1.5	1.3	25	4	92	.10	5	.6	1.0	18	SF4	
		15	549	29.03	19	20.23	155	13.25	7.44	1.0	.9	18	2	65	.05	4	.5	1.1	14	SF2	
		15	840	7.43	19	18.19	155	13.27	5.75	1.4	1.1	20	2	90	.11	2	.6	1.6	16	SF2	
		15	855	6.48	19	17.93	155	12.91	6.50	1.4	1.2	21	4	115	.09	2	.5	1.1	14	SF2	
		15	9 5	5.82	19	20.80	155	13.17	8.30	1.1	.6	16	3	76	.07	3	.6	1.0	9	SF2	
		15	917	18.77	19	18.93	155	8.85	5.80	1.4	1.0	17	1	96	.06	3	.5	1.6	11	SF4	
		15	1122	37.66	19	21.72	155	1.89	6.91	1.8	1.5	24	4	157	.13	4	.6	.9	12	SF5	
		15	1236	26.95	19	21.97	155	2.02	5.31	1.5	1.1	20	2	143	.13	4	.6	1.5	8	SF5	
		15	2256	58.27	19	18.60	155	14.02	6.36	1.4	1.3	21	0	101	.13	3	.6	1.3	18	SF2	
		15	2346	54.67	19	20.62	154	59.53	7.63	2.3	2.5	38	3	199	.18	6	.9	.7	23	LER	
		16	2 8	5.04	19	20.58	155	3.74	8.07	2.7	3.2	42	4	101	.11	2	.6	.4	35	SF5	
		16	357	54.17	19	19.40	155	15.35	7.05	.9	.6	17	1	104	.06	4	.5	1.1	12	SF1	
		16	4 9	42.00	19	19.99	155	3.34	8.40	1.4	.7	11	0	186	.08	1	1.4	1.4	6	SF5	
		16	425	32.02	19	27.46	155	26.48	14.23	1.9		26	1	63	.11	5	.4	.6	19	DML	
		16	436	53.06	19	19.80	155	13.28	7.21	1.6	1.1	20	2	69	.09	5	.6	1.1	17	SF2	
		16	514	43.81	19	21.49	155	.15	.01	1.9	2.3	27	2	186	.28	6	1.2	.8	13	SSF	*
		16	558	5.45	19	21.52	155	3.00	5.62	1.3	.9	16	2	129	.15	3	.9	1.7	9	SF5	
		16	627	3.76	19	19.19	155	8.96	5.94	1.3	.6	16	0	92	.05	4	.6	1.6	12	SF4	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JAN	16	655	58.74	19	19.48	155	9.02	6.22	1.6	1.5	31	3	86	.11	4	.5	1.2	22	SF4	
		16	733	53.65	19	21.23	155	7.36	9.24	3.9	3.9	48	4	82	.11	4	.4	.3	44	SF4	F
		16	747	8.77	19	20.74	155	7.41	8.22	2.3	2.3	42	3	88	.08	5	.4	.6	29	SF4	
		16	812	8.57	19	22.59	155	23.91	6.15	1.5	1.1	21	3	50	.10	5	.5	1.2	18	KAO	
		16	813	59.88	19	19.24	155	11.77	9.30	1.7	1.5	26	5	99	.08	5	.5	.8	23	SF3	
		16	1158	23.10	19	19.76	155	4.45	5.05	1.3	1.1	19	5	152	.08	3	.5	.9	15	SF5	
		16	1243	12.73	19	19.64	155	5.97	6.81	1.3	1.3	20	3	136	.11	5	.5	1.1	14	SF4	
		16	1356	7.22	19	21.87	155	30.36	10.04	1.9	1.5	30	1	45	.09	5	.5	1.0	29	KAO	
		16	1422	33.73	19	20.30	155	3.77	6.85		.3	22	3	119	.12	2	.5	.7	17	SF5	
		16	1711	1.29	19	30.63	155	39.16	8.18	2.0	1.6	26	5	103	.13	6	.5	.9	24	MLO	
		16	1826	39.85	19	19.42	155	14.09	8.52	2.1	2.1	38	1	77	.09	5	.4	.6	34	SF2	
		16	1950	19.45	19	19.81	155	12.54	7.96	.9		15	2	164	.05	5	.7	1.4	10	SF2	
		16	20 5	31.89	19	17.89	155	13.88	6.26	.9		15	1	117	.07	2	.6	1.4	13	SF2	
		17	131	11.90	19	20.05	155	10.48	6.90	1.6	.9	20	3	86	.11	4	.6	1.3	11	SF3	
		17	2 3	38.20	19	26.04	154	55.66	5.60	1.8	1.6	29	2	157	.13	3	.8	1.1	20	LER	
		17	313	37.63	19	20.48	155	13.15	8.01	1.2	.6	19	1	63	.08	4	.6	1.1	14	SF2	
		17	351	35.32	19	19.57	155	8.67	6.90	1.6	.9	21	3	78	.08	4	.6	1.1	11	SF4	
		17	5 2	17.40	19	18.00	155	14.83	7.43	.8		13	0	144	.04	3	.8	1.6	10	SF1	
		17	653	10.09	19	20.14	155	13.46	5.31	.8		17	2	68	.13	5	.5	1.8	11	SF2	
		17	718	23.88	19	25.66	154	54.28	7.06	1.5	1.0	17	1	177	.13	6	1.0	1.5	8	LER	
		17	758	57.55	19	24.91	155	25.52	7.11	1.2	.9	28	4	50	.12	1	.4	.8	17	KAO	
		17	8 5	50.11	19	26.25	155	38.24	4.05	2.6	2.2	23	1	195	.12	4	.8	1.5	16	MLO	
		17	13 0	53.31	19	13.64	155	27.82	5.49	2.1	1.7	33	2	102	.15	5	.5	1.3	21	LSW	
		17	14 3	45.01	19	20.50	155	3.40	6.10	1.1	.3	11	1	132	.07	1	.7	.9	7	SF5	
		17	1422	49.01	19	19.79	155	7.77	6.52	2.0	1.8	36	4	97	.11	5	.5	1.0	30	SF4	
		17	1728	59.67	19	21.21	155	4.80	8.42	2.8	3.1	39	1	92	.07	4	.5	.4	32	SF5	
		17	1758	24.81	19	16.22	155	22.82	3.06	1.0	.8	16	1	127	.07	4	.5	1.2	11	SWR	
		17	1937	13.58	19	19.60	155	10.13	7.22	1.6	.9	19	2	94	.13	5	.7	1.6	11	SF3	
		17	1955	30.91	19	19.54	155	12.39	4.49	.8		13	0	86	.10	5	.5	2.5	9	SSF	
		17	2325	8.17	19	18.85	155	15.16	8.39	.4		9	0	118	.06	5	.9	2.1	7	SF1	
		17	2325	50.82	19	18.58	155	15.12	8.48	1.0	.6	14	2	126	.03	4	.7	1.7	13	SF1	
		18	219	2.55	19	40.11	155	59.05	1.58	2.6	1.8	25	3	222	.20	15	1.5	1.0	15	HUA	
		18	3 5	47.46	19	22.08	155	1.68	5.20	1.6	.9	25	2	157	.14	5	.7	1.9	18	SF5	
		18	5 8	51.06	19	18.60	155	13.42	7.14	1.1	.3	14	1	81	.07	3	.6	1.3	10	SF2	
		18	934	6.52	19	20.34	155	11.81	8.35	1.3		18	2	77	.08	5	.6	1.0	14	SF3	
		18	948	48.31	19	20.62	155	12.80	8.90	1.6	1.1	23	3	65	.06	4	.5	.8	16	SF2	
		18	11 0	41.45	19	18.70	155	12.94	5.99	1.0	.3	16	1	92	.10	3	.6	1.7	13	SF2	
		18	1218	44.37	19	19.85	155	11.39	8.50	1.8	1.5	25	4	88	.06	5	.5	.9	19	SF3	
		18	1238	39.00	19	21.65	154	59.71	.24	1.8	2.3	21	0	187	.22	7	1.2	2.8	17	SLE	F*
		18	1249	54.86	19	23.99	155	25.23	9.95	1.4	.9	26	1	46	.10	2	.4	1.0	20	KAO	
		18	15 8	48.93	19	16.51	155	13.10	6.45	1.7	1.8	27	2	185	.12	1	.8	.7	20	SF2	
		18	1646	14.89	19	22.44	155	1.88	1.24	1.2	.6	15	2	166	.11	6	.5	.9	7	SSF	
		18	1653	35.50	19	18.95	155	13.19	7.91	1.5	1.1	22	2	81	.07	4	.5	1.0	18	SF2	
		18	17 0	56.22	19	19.64	155	8.15	8.00	2.5	2.4	45	4	89	.10	4	.4	.6	35	SF4	
		18	1822	46.64	19	19.05	155	11.60	7.69	1.2	.6	16	0	106	.05	5	.6	1.4	15	SF3	
		18	2041	11.65	19	20.87	155	2.31	7.11	2.4	2.3	35	2	155	.12	2	.5	.5	27	SF5	
		18	2050	51.73	19	23.91	155	28.57	9.09	1.5	.3	23	2	68	.06	3	.4	.9	18	KAO	
		18	2159	21.57	19	20.71	155	3.13	5.53	1.7	.9	19	3	116	.12	2	.5	1.1	14	SF5	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JAN	19	1 3	48.99	19	22.22	155	.85	6.64	1.9	1.3	24	2	161	.13	6	.7	1.1	18	SF5	
		19	233	16.33	19	19.97	155	10.50	7.92	1.6	.9	23	4	87	.10	4	.6	.9	19	SF3	
		19	234	2.14	19	19.79	155	10.30	6.78	1.4	1.1	22	3	91	.08	4	.5	1.1	16	SF3	
		19	242	25.66	19	21.17	154	59.56	.04	2.5	3.1	38	1	194	.24	6	.9	.8	21	SLE	*
		19	424	55.22	19	23.40	155	25.66	6.78	1.4	.9	22	2	47	.09	4	.4	.9	17	KAD	
		19	437	31.30	19	24.74	155	16.78	15.86	2.3	2.3	49	5	37	.15	1	.4	.4	41	DEP	
		19	642	29.78	19	16.71	155	22.13	7.14	1.9	2.5	47	3	130	.14	6	.5	.7	32	SWR	
		19	820	50.46	19	21.04	154	59.46	.02	2.4	2.8	32	2	196	.18	6	.9	.6	11	SLE	*
		19	1033	11.32	19	19.90	155	8.10	8.87	1.8	1.5	22	1	87	.07	5	.6	1.2	19	SF4	
		19	11 1	39.15	19	20.27	155	7.04	8.51	2.1	2.1	37	1	102	.14	5	.5	.7	25	SF4	
		19	1143	1.06	19	21.28	155	2.43	6.94	2.4	2.5	39	4	141	.12	3	.5	.6	27	SF5	
		19	1415	52.18	19	21.13	155	3.20	4.69	1.3		17	0	115	.15	2	.8	1.6	10	SSF	
		19	1449	32.77	19	15.38	155	20.29	5.80	1.0	.6	11	1	241	.04	10	1.7	7.2	9	SWR	
		19	1514	7.69	19	19.33	155	10.06	6.26	1.4	1.1	29	1	101	.10	5	.5	1.1	26	SF3	
		19	17 4	34.41	19	17.56	155	12.90	5.04	1.3	.3	20	3	134	.08	1	.6	.9	9	SF2	
		19	1717	41.00	19	18.42	155	13.47	8.71	1.1		18	2	86	.08	3	.6	1.1	13	SF2	
		19	1718	26.46	19	19.05	155	13.78	8.48	1.5	1.1	22	2	86	.06	4	.5	.9	16	SF2	
		19	1727	14.14	19	18.68	155	13.60	8.14	1.0		16	2	87	.06	3	.6	1.2	12	SF2	
		19	1815	31.13	19	19.49	155	9.94	8.06	2.2	2.3	41	3	96	.10	5	.4	.6	30	SF3	
		19	1859	11.47	19	21.62	155	4.90	11.11	1.4	.7	26	4	83	.08	4	.5	.7	14	SF5	
		19	19 3	38.42	19	21.76	155	5.04	12.84	1.3		18	0	118	.08	3	1.0	1.7	13	SF5	
		19	2024	20.86	19	17.72	155	12.89	7.21	1.9	1.9	35	2	125	.12	2	.5	.9	28	SF2	
		19	2237	48.09	19	17.55	155	12.79	5.37	1.5	.6	14	0	139	.09	2	.7	1.5	10	SF2	
		19	2332	31.45	19	21.77	155	2.40	6.44	1.6		18	1	147	.12	4	.7	1.3	10	SF5	
		20	010	12.04	19	18.10	155	12.99	6.52	2.0	1.9	38	2	105	.14	2	.5	1.0	31	SF2	
		20	215	49.27	19	20.74	155	12.44	9.36	1.2		15	1	78	.07	4	.8	1.2	8	SF2	
		20	435	41.61	19	26.98	155	13.80	32.95	1.6	.3	22	0	127	.07	4	1.1	2.7	14	DEP	
		20	1140	30.88	19	21.13	155	24.89	9.00	2.0	2.3	25	3	53	.11	3	.4	.8	25	SWR	
		20	1244	29.53	19	21.15	155	24.97	9.37	1.7	1.5	20	3	53	.10	3	.5	1.0	18	SWR	
		20	1329	49.94	19	19.95	155	7.92	7.56	2.5	2.6	32	2	117	.13	5	.6	.8	30	SF4	
		20	1341	15.59	19	19.18	155	8.35	6.33		1.3	25	4	87	.09	3	.5	.9	28	SF4	
		20	1358	24.69	19	18.51	155	27.91	.03	1.9	2.2	13	0	112	.12	7	.6	3.2	13	LSW	B*
		20	1629	.32	19	19.79	155	13.73	8.43	2.8	3.2	38	2	119	.11	5	.4	.6	36	SF2	
		20	1727	42.93	19	21.09	155	12.46	10.92		1.0	17	1	88	.11	3	.7	1.1	15	SF2	
		20	1750	40.35	19	20.99	155	2.63	5.40		1.1	24	2	145	.14	2	.7	1.3	23	SF5	
		20	2038	32.81	19	20.94	155	12.95	8.90	1.6	1.2	23	0	60	.09	3	.6	1.0	22	SF2	
		20	2123	38.91	19	19.78	155	7.59	6.80	1.8	1.8	32	2	101	.09	5	.6	.9	32	SF4	
		21	046	4.01	19	21.51	155	7.36	7.02	2.5	3.1	40	2	78	.12	3	.4	.8	38	SF4	
		21	122	36.12	19	25.65	155	37.83	1.22	2.8	3.2	31	0	96	.11	4	.5	1.3	31	MLO	
		21	422	35.06	19	17.88	155	20.77	7.37	2.3	2.6	37	2	125	.10	4	.4	.8	34	SWR	
		21	520	24.01	19	17.33	155	32.71	.09		1.2	22	2	108	.13	6	.5	.9	20	LSW	*
		21	548	49.58	19	46.56	155	59.97	7.07		1.6	19	1	245	.13	20	2.2	1.0	18	HUA	
		21	646	36.61	19	22.49	155	.43	3.94	1.6	.9	22	2	172	.21	6	1.1	3.2	22	SSF	
		21	647	33.35	19	20.55	155	3.15	4.42	2.0	2.5	28	1	104	.11	1	.6	1.1	26	SSF	
		21	859	42.36	19	20.91	154	59.03	.01	2.3	3.1	31	2	200	.22	7	1.0	.8	19	SLE	*
		21	921	50.14	19	16.46	155	21.29	6.93	1.8	2.0	41	4	137	.13	5	.5	.7	25	SWR	
		21	956	10.87	19	19.86	155	6.98	7.53	1.2	1.0	19	1	112	.11	5	.6	1.4	10	SF4	
		21	1232	4.69	19	19.89	155	5.19	5.35	1.4	1.1	17	3	137	.07	4	.5	1.9	8	SF5	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JAN	21	1844	54.84	19	19.47	155	7.99	6.15	1.1	.6	19	3	95	.08	4	.5	1.4	8	SF4	
		21	1958	56.99	19	19.57	155	15.24	7.58	1.0	.9	18	1	92	.06	4	.5	1.1	13	SF1	
		21	2136	38.24	19	19.86	155	10.19	7.48	1.3	.6	19	3	89	.07	4	.5	1.0	11	SF3	
		21	22 9	16.24	19	22.96	155	2.23	6.95	2.4	2.5	34	2	127	.18	5	.5	.8	17	SF5	F
		21	2213	49.54	19	21.86	154	59.17	3.86	1.9	1.5	22	1	189	.18	6	1.0	3.2	16	SLE	
		22	059	22.03	19	25.17	154	55.83	4.84	1.7	1.2	18	0	170	.13	5	.9	2.3	9	SLE	
		22	1044	1.52	19	21.15	155	3.24	6.88	1.3	1.2	17	2	164	.18	2	.9	1.1	11	SF5	
		22	1225	7.66	19	20.99	155	12.81	26.74	1.6	1.4	28	0	61	.08	3	1.0	1.5	26	DEP	
		22	2017	41.36	19	23.04	154	59.42	4.99	1.9	1.2	24	2	177	.19	4	1.0	2.0	16	SLE	
		22	2246	23.56	19	16.73	155	24.05	4.73	1.3	1.3	16	2	91	.13	4	.5	2.5	10	SWR	
		23	246	33.13	19	23.32	155	25.09	9.86	1.7	1.8	32	1	37	.11	4	.4	.7	23	KAD	
		23	442	11.03	19	16.48	155	22.63	2.34		1.0	14	1	126	.08	5	.4	1.1	10	SWR	
		23	719	7.04	19	18.99	155	13.53	8.72	2.0	2.5	41	3	138	.11	7	.5	.5	25	SF2	
		23	741	6.14	19	20.25	155	11.05	8.34	1.5	1.1	20	2	82	.05	4	.6	1.1	16	SF3	
		23	1011	18.35	19	22.06	155	3.38	11.05	1.8	1.7	26	5	104	.08	4	.5	.6	23	SF5	
		23	1013	39.86	19	22.76	155	3.58	12.04	3.3	3.5	46	6	99	.12	4	.5	.3	39	SF5	
		23	1044	23.45	19	22.33	155	3.50	10.90	1.9	1.6	25	4	101	.09	4	.5	.6	20	SF5	
		23	1046	46.62	19	22.78	155	3.60	12.02	3.5	3.9	48	5	99	.09	3	.4	.3	41	SF5	F
		23	1048	9.86	19	22.41	155	3.27	10.34	2.2	2.5	24	2	106	.07	4	.6	.8	20	SF5	
		23	1050	36.41	19	22.33	155	3.66	12.51	1.3	1.2	22	4	98	.08	4	.7	.6	18	SF5	
		23	11 6	42.98	19	22.13	155	3.32	11.21	1.4	1.5	27	6	105	.07	4	.5	.4	24	SF5	
		23	1240	30.72	19	22.27	155	3.45	11.91	1.5	1.4	28	5	102	.08	4	.5	.5	24	SF5	
		23	15 0	11.49	19	25.02	155	28.67	9.09	2.1	1.8	28	3	64	.12	5	.4	.9	26	KAD	
		23	1612	35.29	19	20.95	155	4.48	3.70	1.6	1.1	12	3	98	.17	3	.6	1.3	9	SSF	
		23	1721	48.07	19	19.65	155	7.02	6.48	1.2	1.2	21	4	117	.09	5	.5	1.3	18	SF4	
		23	1755	20.52	19	21.86	155	1.63	6.73	1.4	1.2	26	3	153	.12	4	.6	1.0	23	SF5	
		23	18 0	24.92	19	21.49	155	1.85	9.53	4.3	4.3	47	2	155	.11	4	.7	.4	45	SF5	F
		23	18 9	23.82	19	21.11	155	1.59	8.96	1.2	.9	23	4	170	.10	3	.5	.6	18	SF5	
		23	2014	57.40	19	19.04	155	13.52	5.57	1.6	1.2	22	2	80	.14	4	.5	1.4	21	SF2	
		23	23 4	45.66	19	20.01	155	6.55	9.20	1.4	1.2	20	1	116	.07	6	.6	1.3	18	SF4	
		24	057	1.42	19	18.95	155	13.76	7.66	1.1	1.0	18	3	88	.07	4	.5	1.1	17	SF2	
		24	143	32.85	19	23.70	155	26.93	10.25		1.1	21	3	51	.09	3	.5	.7	18	KAD	
		24	349	31.80	20	3.31	155	49.11	27.59		2.0	31	4	202	.11	9	.9	1.4	29	KOH	
		24	637	57.74	19	19.90	155	6.91	8.68	1.0	.7	15	2	113	.08	5	.6	1.3	14	SF4	
		24	659	33.66	19	21.46	155	1.99	9.63	1.5	1.2	25	5	152	.06	3	.5	.5	22	SF5	
		24	725	37.96	19	22.03	155	2.33	7.88	1.1	.9	20	5	146	.13	4	.6	.8	18	SF5	
		24	1055	.96	19	19.32	155	15.36	10.12	1.0	.7	13	2	108	.05	4	.7	1.5	11	SF1	
		24	1145	50.82	19	19.85	155	13.15	8.83	1.0	.3	13	2	115	.08	5	.6	1.4	11	SF2	
		24	12 5	37.36	19	20.21	155	11.52	8.37	1.2	.3	13	2	90	.05	5	.6	1.6	11	SF3	
		24	1647	13.99	19	20.44	155	4.06	6.30	1.2	.3	18	1	114	.11	2	.6	1.2	17	SF5	
		24	1849	4.48	19	18.79	155	13.91	7.96	1.0	.9	15	2	94	.06	3	.6	1.3	13	SF2	
		24	2258	58.68	19	12.59	155	27.53	7.20	2.0	1.6	26	3	115	.15	6	.6	1.5	23	LSW	
		24	23 6	52.06	19	18.22	155	15.13	7.87	1.0	.3	14	3	140	.04	4	.6	1.2	13	SF1	
		24	23 8	28.23	19	13.77	155	27.28	9.72	3.3	3.5	45	2	140	.15	6	.6	.7	42	LSW	
		24	2317	36.35	19	25.99	155	27.69	7.11	2.1	1.7	27	4	87	.11	5	.4	1.0	25	KAD	
		24	2324	16.50	19	21.86	155	29.94	7.99	1.9	1.7	30	1	44	.13	4	.4	1.0	17	KAD	
		25	057	3.79	19	19.73	155	6.52	8.85	1.9	1.5	22	1	124	.08	5	.7	1.2	18	SF4	
		25	136	37.36	19	20.30	155	12.21	8.08	1.0	.3	15	1	74	.07	5	.6	1.2	7	SF3	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	25	554	44.30	19	21.82	155	1.82	6.73	1.6	1.3	24	1	150	.13	4	.6	1.2	13	SF5
		25	942	32.83	19	19.67	155	6.64	7.90	1.7	1.1	18	1	124	.07	5	.6	1.4	13	SF4
		25	952	21.37	19	21.51	155	6.81	7.83	1.3	1.1	11	1	157	.04	3	.6	1.2	9	SF4
		25	1054	37.73	19	20.84	155	11.22	7.53	2.1	1.9	37	3	72	.15	3	.5	.9	27	SF3
		25	1151	26.57	19	20.00	155	6.57	7.51	2.5	2.4	37	5	116	.11	5	.4	.7	29	SF4
		25	15	0 45.49	19	20.69	155	13.28	8.57	2.1	2.3	28	1	60	.08	4	.4	.5	23	SF2
		25	15	3 9.91	19	20.10	155	13.23	6.59		1.1	20	2	67	.12	5	.6	1.1	16	SF2
		25	1517	32.49	19	21.89	155	2.49	8.76	2.1	2.1	30	1	131	.08	4	.5	.7	26	SF5
		25	1526	27.11	19	21.82	155	2.32	6.94	1.3	.3	17	1	149	.08	4	.5	1.2	12	SF5
		25	18	7 17.64	19	19.68	155	6.86	5.92	1.2	.9	23	2	119	.10	5	.6	1.3	23	SF4
		25	23	6 25.35	19	23.95	155	27.72	8.75	1.8	1.3	31	2	57	.12	3	.4	.8	20	KAO
		26	913	53.29	19	21.08	155	3.50	3.83		.6	16	1	107	.27	2	1.1	1.8	9	SSF
		26	1052	37.04	19	19.10	155	12.33	6.48			18	1	96	.08	4	.6	1.4	13	SF2
		26	1338	34.35	19	8.54	155	30.54	11.47	3.1	3.1	36	0	155	.15	5	.7	.6	28	LSW F
		26	1450	46.85	19	22.35	155	1.28	3.99		.6	16	1	161	.09	5	.6	2.0	10	SSF
		26	1557	58.06	19	22.47	155	25.31	10.49	3.2	3.2	48	4	32	.14	4	.4	.5	42	KAO
		26	1739	26.78	19	16.82	155	21.38	5.37	1.9	2.2	32	5	132	.10	5	.3	1.4	28	SWR
		26	1929	32.55	19	19.51	155	4.21	7.59		1.1	19	8	168	.08	2	.5	.8	17	SF5
		26	2027	28.90	19	8.86	155	30.52	10.30		1.2	23	1	147	.13	5	.7	1.0	22	LSW
		26	2043	29.08	19	19.82	155	6.76	7.46		.9	16	3	117	.06	5	.5	1.1	14	SF4
		26	2226	20.10	19	11.03	155	42.21	3.00	2.5	1.5	22	3	181	.27	12	1.3	3.0	19	LSW
		26	2347	33.77	19	19.19	155	12.05	6.08		.3	14	3	97	.08	5	.4	1.4	13	SF3
		27	2	4 14.73	19	22.19	155	24.50	6.75	2.4	2.5	32	4	41	.13	4	.5	.8	26	KAO
		27	626	39.75	19	20.25	155	3.68	5.53	1.9	2.1	34	5	120	.10	1	.4	.7	31	SF5
		27	636	25.48	19	21.15	155	2.09	8.49	1.6	.9	19	4	156	.06	3	.5	.7	16	SF5
		27	1039	9.74	19	24.08	155	26.62	8.67	1.8	1.1	29	4	49	.12	3	.4	.8	27	KAO
		27	1130	18.81	19	26.53	155	37.16	3.12	2.3	1.5	14	3	182	.10	2	.7	.5	13	MLO
		27	1130	53.25	19	26.40	155	38.84	2.36	2.6	2.5	18	4	209	.11	5	.6	.8	16	MLO
		27	13	8 35.42	19	23.54	155	15.12	1.51	1.4	2.4	11	1	96	.07	3	.3	.5	9	SEC
		27	1553	16.70	19	23.80	155	15.21	1.74	1.2	2.2	6	0	99	.06	2	.4	.7	6	SEC
		27	1649	55.19	19	22.08	155	2.11	7.84		1.3	20	5	138	.12	4	.5	.7	14	SF5
		27	1911	30.14	19	11.46	155	11.90	47.19		1.8	36	0	195	.09	11	1.1	2.0	31	DEP
		27	1927	34.79	19	19.02	155	11.35	5.91		1.5	26	2	109	.10	5	.5	1.2	16	SF3
		27	2341	45.69	19	22.02	155	25.59	9.87	1.9	2.3	32	3	43	.12	4	.4	.8	27	KAO
		27	2347	53.62	19	17.93	155	13.14	6.56		1.5	18	1	103	.07	2	.5	1.2	15	SF2
		28	033	16.05	19	23.48	155	26.36	10.95	2.3	2.6	38	3	46	.11	3	.4	.6	34	KAO
		28	322	56.42	19	20.15	155	11.78	9.09	2.3	2.8	36	0	81	.12	5	.5	.7	32	SF3
		28	1032	9.11	19	22.13	155	4.80	7.46	2.0	2.1	30	2	74	.14	3	.5	.8	26	SF5
		28	1526	11.06	19	19.83	155	10.58	7.41		.6	11	0	91	.03	4	.7	1.8	10	SF3
		28	16	4 23.08	19	19.82	155	12.68	9.55		1.1	19	1	77	.07	5	.7	1.1	17	SF2
		28	2024	44.18	19	19.99	155	13.04	7.94		.3	12	1	70	.06	5	.6	1.6	11	SF2
		29	334	54.47	19	19.17	155	11.73	4.27		.6	14	2	101	.08	5	.4	1.9	13	SSF
		29	515	53.28	19	19.07	155	11.25	8.19		.3	15	1	108	.06	5	.6	1.3	14	SF3
		29	517	37.59	19	19.16	155	10.17	6.87		.6	16	1	106	.05	5	.5	1.3	15	SF3
		29	849	22.89	19	19.44	155	10.96	8.32		.9	17	3	105	.07	5	.5	1.0	16	SF3
		29	1134	16.57	19	19.35	155	10.56	8.62	1.4	1.7	18	1	101	.06	5	.6	1.2	17	SF3
		29	1241	5.91	19	19.01	155	9.27	6.52		.3	17	1	101	.07	4	.5	1.5	15	SF3
		29	1246	17.43	19	19.09	155	13.98	7.96		.3	17	2	90	.06	4	.5	1.2	16	SF2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JAN	29	14	0 20.34	19	21.99	155	6.19	7.86		.6	15	2	89	.07	2	.5	.8	14	SF4
		29	1437	2.25	19	19.73	155	12.84	8.57		.9	16	1	76	.05	5	.5	1.2	15	SF2
		29	1856	10.54	19	19.07	155	9.93	6.32	1.4	1.3	23	1	107	.08	5	.4	1.0	20	SF3
		29	1925	6.03	19	20.34	155	12.83	8.77		.6	14	1	69	.05	4	.5	1.3	13	SF2
		29	2110	47.08	19	20.58	155	12.86	8.93		.3	9	1	88	.05	4	.7	1.2	8	SF2
		29	22	0 16.20	19	20.62	155	13.05	6.95		.3	14	1	64	.06	4	.4	1.4	13	SF2
		30	144	32.54	19	10.97	155	36.38	7.42	2.8	2.7	40	5	96	.19	7	.6	.8	37	LSW
		30	214	56.39	19	15.88	155	26.99	8.81	1.5	1.7	25	1	70	.17	6	.4	.7	11	LSW
		30	519	6.93	19	19.28	155	11.87	7.17		.3	13	1	97	.04	5	.5	1.5	12	SF3
		30	542	11.30	19	24.58	155	3.07	3.23		.6	10	1	96	.05	2	.5	.5	9	SME
		30	645	18.49	19	37.17	155	17.23	45.93		.9	26	0	199	.07	17	1.4	3.8	21	KEA
		30	7	9 56.85	19	20.60	155	9.36	7.93		.9	20	1	71	.06	3	.5	.9	14	SF3
		30	959	55.80	19	20.24	155	3.64	5.67		.9	25	4	120	.16	1	.6	1.0	14	SF5
		30	1151	20.85	19	19.39	155	10.39	7.33		.3	16	0	100	.05	5	.6	1.5	12	SF3
		30	1152	40.87	19	21.06	155	3.38	4.91	1.3	.9	21	2	106	.20	2	.7	1.6	11	SSF
		30	1236	35.41	19	19.49	155	11.68	7.84		.6	17	2	94	.08	6	.6	1.2	12	SF3
		30	1650	1.01	19	19.34	155	11.59	7.11	1.4	1.3	22	0	99	.11	5	.5	.9	19	SF3
		30	2238	25.66	19	19.30	155	11.61	7.48		1.3	13	0	99	.06	5	.7	1.9	11	SF3
		30	2258	23.45	19	21.19	155	1.94	5.91	1.9	1.8	21	0	159	.11	3	.5	.7	12	SF5
		31	041	29.53	19	18.29	155	13.44	6.55		.6	13	0	96	.07	2	.6	1.4	10	SF2
		31	248	39.32	19	19.55	155	6.98	7.65		.6	17	0	119	.08	4	.7	1.5	11	SF4
		31	7	0 11.18	19	19.08	155	8.61	6.68	1.4	1.5	22	0	86	.09	3	.6	1.3	18	SF4
		31	836	52.35	19	20.69	155	3.34	8.29	1.4	1.2	19	0	101	.11	2	.6	.9	10	SF5
		31	944	20.74	19	24.75	155	24.83	6.33	1.6	.9	20	1	100	.13	1	.5	1.2	15	KAO
		31	1038	51.12	19	21.09	155	3.41	6.79	2.1		31	1	106	.11	2	.5	.8	20	SF5
		31	1143	46.02	19	19.19	155	14.77	8.78		.6	11	0	102	.03	5	.7	1.5	8	SF1
		31	1241	27.40	19	19.88	155	6.12	8.11		.7	16	0	126	.07	6	.7	1.5	13	SF4
		31	1616	42.19	19	18.81	155	16.60	7.16	1.6	1.6	26	0	118	.15	3	.6	1.0	18	SF1
		31	1632	27.77	19	26.95	155	16.47	24.26	2.5	2.7	46	1	40	.20	3	.6	1.3	42	DEP
		31	1652	46.12	19	19.80	155	7.04	6.86	1.4	1.5	24	0	112	.11	5	.6	1.4	16	SF4
		31	1740	57.39	19	19.16	155	11.62	7.85		.9	14	0	103	.08	5	.7	1.6	9	SF3
		31	1914	21.04	19	19.66	155	10.32	5.75		.6	15	0	94	.09	6	.5	2.3	9	SF3
		31	1916	55.85	19	20.16	155	9.73	7.06		1.1	20	2	80	.09	4	.5	1.0	14	SF3
		31	20	0 19.32	19	20.64	155	13.26	8.45		.3	13	1	61	.07	4	.6	1.5	10	SF2
	FEB	1	649	44.57	19	27.96	155	27.10	10.48	2.7	2.9	44	3	57	.12	6	.4	.5	35	KAO
		1	9	9 35.32	19	25.96	154	55.02	5.08	1.7	1.5	20	2	183	.11	3	.9	1.3	18	LER
		1	1110	1.01	19	16.68	155	21.14	6.76	1.8	1.3	19	1	143	.10	5	.6	1.6	15	SWR
		1	1137	23.37	19	18.90	155	10.08	6.74		.3	12	0	113	.04	5	.6	1.7	9	SF3
		1	1138	39.05	19	18.95	155	10.17	6.63		.9	16	0	112	.08	5	.6	1.6	13	SF3
		1	1326	16.73	19	16.56	155	22.27	4.58		1.4	17	1	131	.11	5	.5	3.4	13	SWR
		1	1438	35.63	19	18.41	155	27.92	.06	2.2	2.6	20	0	76	.12	7	.4	2.5	16	LSW R*
		1	1611	42.20	19	21.28	155	6.82	5.34		.9	22	0	86	.11	3	.5	1.3	22	SF4
		1	1835	2.10	19	20.66	155	2.92	6.21	2.9	3.0	39	3	124	.09	1	.4	.6	30	SF5
		1	1849	35.05	19	21.62	155	1.33	3.91	1.6	1.1	21	2	164	.13	4	.6	1.6	12	SSF
		1	19	1 20.00	19	20.34	155	8.40	6.56	1.9	1.8	28	1	78	.11	4	.4	.8	25	SF4
		1	1953	22.77	20	31.81	155	32.94	.90		1.9	28	1	313	.14	51	20.0	7.2	23	DIS *
		1	20	9 41.36	19	21.69	155	1.77	5.43	1.3	.6	22	3	152	.13	4	.7	1.5	13	SF5
		1	2245	43.03	19	20.62	155	4.00	5.87	1.7	1.5	17	1	105	.12	2	.7	1.2	11	SF5

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	FEB	2	1 1	58.85	19	19.12	155	13.86	7.58	1.6	1.5	32	1	75	.11	4	.5	.9	24	SF2
		2	221	48.91	19	18.99	155	11.47	3.94		.3	19	1	108	.14	5	.6	2.3	17	SSF
		2	238	10.20	19	27.12	155	36.23	2.12	2.6		28	0	97	.20	0	.6	.4	17	MLO
		2	520	23.18	19	26.38	155	38.48	2.77	2.2		17	0	202	.12	4	.9	1.0	15	MLO
		2	6 7	42.17	19	19.85	155	11.75	7.11		.6	20	2	86	.09	5	.6	1.1	16	SF3
		2	18 9	16.72	19	19.36	155	11.23	6.98		.3	15	1	101	.06	6	.5	1.2	14	SF3
		2	1946	22.66	19	19.98	155	6.53	9.88	3.3	3.4	44	2	117	.11	5	.6	.4	41	SF4
		2	2352	35.76	19	21.47	155	3.31	8.13	1.6	1.4	24	4	105	.08	3	.4	.6	16	SF5
		3	041	7.76	19	22.42	155	28.37	3.92	1.9	1.6	18	1	49	.12	1	.4	.6	16	KAO
		3	636	47.00	19	20.73	155	9.97	8.17		.3	18	1	72	.08	2	.5	1.0	15	SF3
		3	644	31.43	19	15.77	155	22.23	8.49	2.2	2.4	35	3	149	.15	4	.5	.9	23	SWR
		3	822	36.43	19	15.91	155	22.26	7.91		1.3	23	5	145	.12	4	.5	1.0	20	SWR
		3	1817	9.12	19	20.06	155	12.95	8.73		1.2	16	1	70	.06	5	.6	1.2	15	SF2
		3	1859	37.53	19	19.82	155	11.71	7.59	1.4	1.1	17	1	87	.09	5	.5	1.2	15	SF3
		3	2138	7.68	19	.36	155	27.55	39.38	2.6	1.8	31	1	212	.09	17	1.1	2.1	29	DLS
		3	2140	21.14	19	.65	155	27.39	40.70		1.6	26	1	224	.06	16	1.1	2.2	23	DLS
		3	2157	24.88	19	22.84	155	30.69	8.35	2.4	2.7	38	2	43	.12	5	.4	.7	34	KAO
		3	2215	23.97	19	23.00	155	30.69	8.00	2.0	1.1	24	1	76	.13	5	.5	1.1	15	KAO
		3	2330	28.21	19	19.10	155	13.64	4.28	1.5	1.1	27	1	70	.15	4	.4	1.5	13	SSF
		4	6 6	23.73	19	24.53	155	37.15	.01	2.2	1.8	10	0	85	.19	5	.7	3.1	7	MLO *
		4	622	18.71	19	52.60	155	42.28	17.30	2.7	2.2	40	2	137	.10	28	.6	13.0	37	KEA
		4	729	15.95	19	29.65	155	27.20	10.60	1.9	1.3	24	1	77	.11	4	.5	.8	17	KAO
		4	1347	50.52	19	18.87	155	20.52	7.79	1.6	1.8	35	5	101	.13	4	.4	.6	21	SWR
		4	1350	17.60	19	18.36	155	15.48	8.12		.9	15	0	139	.05	4	.6	1.3	12	SF1
		4	1624	.45	19	19.31	155	15.54	8.51	2.0	2.1	38	2	100	.11	4	.4	.6	27	SF1
		4	1717	19.52	19	21.60	155	3.64	6.51		.4	20	2	95	.14	3	.6	1.2	11	SF5
		4	1840	41.38	19	20.38	155	13.04	8.60	1.4	1.1	20	2	65	.06	4	.5	.9	15	SF2
		4	2245	11.60	19	18.18	155	15.63	6.87	1.5	.8	17	1	147	.09	4	.6	1.3	15	SF1
		5	2 5	3.26	19	14.54	155	32.56	6.87	1.4	1.3	29	0	113	.19	4	.7	1.3	20	LSW
		5	1046	59.85	19	25.69	155	37.67	2.66	2.3	2.4	25	2	95	.13	4	.4	.9	20	MLO
		5	18 9	33.42	19	19.99	155	3.93	7.39		1.6	27	3	142	.10	2	.6	.9	21	SF5
		5	2332	44.32	19	19.27	155	10.26	5.32	1.4	.9	30	2	103	.12	5	.6	1.6	23	SF3
		6	033	51.50	19	25.13	155	25.39	8.11	1.4	.8	26	2	50	.10	1	.4	.9	17	KAO
		6	358	12.50	19	37.35	155	22.26	12.51		.9	24	1	72	.11	12	.5	1.1	16	KEA
		6	510	22.21	19	20.43	155	3.56	8.71	2.1	2.0	34	3	104	.09	1	.5	.6	26	SF5
		6	1821	12.56	19	16.81	155	30.47	8.41	3.1	3.1	43	3	49	.18	3	.4	.8	32	LSW F
		6	1831	25.49	19	22.22	155	1.51	8.02	2.4	2.5	36	3	150	.13	5	.7	.4	23	SF5
		6	1931	39.59	19	14.28	155	36.07	7.06	2.3	1.5	28	1	83	.19	2	.6	.9	21	LSW
		6	2255	46.28	19	19.20	155	15.53	8.39	1.9	2.4	37	3	102	.10	4	.4	.7	30	SF1
		6	2330	23.20	19	20.08	155	10.21	8.95		1.1	19	1	84	.05	4	.5	.9	17	SF3
		7	132	22.33	19	26.11	155	28.22	8.98		1.3	27	2	62	.11	6	.4	1.0	24	KAO
		7	2 8	34.21	20	10.74	155	31.95	45.09		1.7	27	4	238	.06	26	1.4	1.0	25	KEA
		7	353	55.96	19	28.40	155	37.23	1.54	2.2	1.6	16	1	101	.12	3	.4	.5	14	MLO
		7	441	7.31	19	45.94	155	27.76	24.76		1.4	18	5	112	.09	2	.7	1.2	15	KEA
		7	754	57.36	19	19.50	155	8.57	7.53	2.8	3.1	36	1	79	.11	4	.5	.7	27	SF4
		7	1048	40.26	19	18.55	155	15.09	7.74		1.3	20	3	127	.07	4	.5	.9	18	SF1
		7	16 2	45.49	19	21.47	155	14.44	28.01	4.1	4.2	44	0	59	.10	3	.6	.9	44	DEP F
		7	1610	7.78	19	21.91	155	14.30	26.75	2.3	1.9	42	6	57	.09	3	.6	.7	36	DEP

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	FEB	7	1611	18.81	19	20.84	155	2.55	7.87	2.3	2.3	33	2	144	.12	2	.6	.4	31	SF5
		7	1636	56.72	19	21.86	155	14.34	27.24	2.1	1.7	38	5	57	.09	3	.6	.8	35	DEP
		7	1749	50.70	19	20.05	155	12.91	8.08		1.1	15	1	71	.05	5	.5	1.3	14	SF2
		7	18 8	31.31	19	20.75	155	2.68	7.59	2.1	2.1	32	3	139	.15	2	.5	.6	26	SF5
		7	1923	14.59	19	21.80	155	14.58	27.76	2.6	2.7	44	4	58	.11	3	.6	.8	40	DEP
		7	2153	43.53	19	19.41	155	7.70	7.14		.6	17	1	104	.10	4	.6	1.3	13	SF4
		8	358	41.12	19	23.69	155	24.73	12.01	1.7	1.2	32	2	44	.10	3	.4	.6	23	KAO
		8	458	15.49	19	12.11	155	27.44	7.16	2.1	1.5	27	0	115	.17	5	.6	1.2	22	LSW
		8	1246	5.20	19	25.65	155	37.04	2.15	2.3	2.1	16	2	120	.25	3	.9	1.4	12	MLO
		8	1254	49.31	19	25.27	155	37.81	1.14	2.6	2.2	23	0	96	.17	5	.6	1.7	17	MLO
		8	1431	40.55	19	17.17	155	16.38	6.31	1.8	1.5	31	2	157	.14	4	.6	1.1	20	SF1
		8	1938	56.54	19	20.77	155	3.01	6.95	1.7	1.3	21	4	116	.10	2	.5	.8	15	SF5
		8	2349	23.01	19	21.81	155	1.69	7.95	1.6	.9	23	2	160	.12	4	.6	1.0	13	SF5
		9	0 5	13.46	19	19.15	155	15.56	7.97		1.1	19	3	112	.07	4	.5	1.0	17	SF1
		9	512	50.72	19	19.63	155	10.28	7.26		.9	20	2	94	.11	5	.6	1.2	17	SF3
		9	553	18.20	19	18.67	155	13.60	5.67	1.4	1.3	24	3	87	.11	3	.5	1.3	18	SF2
		9	9 3	11.36	19	19.51	155	11.44	7.63		1.1	21	2	95	.05	6	.5	1.0	15	SF3
		9	1336	13.67	19	20.16	155	7.46	6.93		1.1	18	2	97	.07	5	.5	.9	13	SF4
		9	1728	5.27	19	22.72	155	24.51	10.53	2.7	2.7	40	3	41	.14	5	.4	.5	32	KAO
		9	2137	42.16	19	.45	155	28.46	40.86	2.6	2.0	33	0	279	.07	17	3.0	2.4	29	DLS
		9	2332	54.25	19	21.94	155	18.10	25.61	2.1	1.5	37	1	29	.11	4	.7	1.0	34	DEP
		10	021	28.63	19	19.92	155	6.93	7.58	2.0	1.5	27	1	111	.09	5	.4	.8	20	SF4
		10	039	25.31	19	20.39	155	6.24	7.83	2.0	1.3	22	1	111	.09	5	.5	1.2	19	SF4
		10	053	57.63	19	18.66	155	13.70	7.63		.6	17	0	91	.10	3	.6	1.4	13	SF2
		10	125	21.76	19	20.46	155	6.79	6.99	1.7	.9	22	2	102	.09	5	.5	1.1	19	SF4
		10	254	32.48	19	48.04	155	42.75	20.56	2.9	3.0	38	0	245	.11	32	1.8	5.0	35	KEA
		10	1034	32.97	19	20.10	155	12.72	7.93		.9	20	2	72	.07	5	.5	1.0	16	SF2
		10	1439	37.95	19	21.05	155	3.59	7.02	2.5	2.4	33	2	101	.10	2	.5	.8	26	SF5
		10	1449	24.53	19	21.00	155	3.69	6.96	2.1	1.8	29	2	92	.12	2	.5	.9	16	SF5
		10	20 9	2.56	19	20.09	155	8.51	7.25	1.4	1.1	23	3	78	.09	4	.5	1.1	17	SF4
		11	838	30.38	19	20.41	155	12.81	7.92	1.6	1.6	23	0	68	.10	4	.6	.8	22	SF2
		11	927	21.50	19	16.61	155	22.29	6.95	2.3	2.6	40	2	129	.16	5	.5	1.0	33	SWR
		11	928	40.67	19	16.95	155	22.22	6.16	1.6	2.4	35	4	125	.21	6	.5	1.3	29	SWR
		11	1510	8.20	19	21.56	155	3.16	8.01	2.0	1.7	32	3	118	.14	3	.5	.8	20	SF5
		11	1528	21.28	19	21.88	155	1.99	7.36	1.6	1.3	26	1	144	.11	4	.5	.8	12	SF5
		11	1910	23.49	19	21.49	155	.83	6.18	1.9	2.4	28	1	176	.11	5	.6	.8	18	SF5
		11	2025	52.94	19	16.89	155	21.97	6.71		1.5	26	3	130	.10	6	.4	1.0	18	SWR
		11	21 2	23.23	19	20.88	155	2.27	7.04	2.3	2.4	37	1	157	.15	2	.6	.6	22	SF5
		12	058	38.13	19	31.02	156	.17	29.44	2.3	1.8	29	0	290	.09	25	5.3	2.8	27	KON
		12	721	48.18	19	15.45	155	23.00	6.31	1.2	1.5	22	2	145	.11	3	.6	1.4	12	SWR
		12	724	14.31	19	16.18	155	23.08	3.00	.9	1.0	14	1	122	.09	4	.5	1.4	11	SWR
		12	727	55.24	19	15.51	155	22.79	5.22	1.0	1.2	16	1	168	.08	3	.7	2.0	11	SWR
		12	729	43.02	19	16.53	155	23.34	2.10	.9	1.2	20	2	111	.13	4	.4	1.2	13	SWR
		12	730	55.59	19	15.74	155	22.89	4.56		.9	14	2	137	.07	3	.8	2.0	11	SWR
		12	733	.24	19	15.63	155	22.93	5.52	1.3	1.5	21	1	136	.08	3	.5	1.6	15	SWR
		12	8 9	49.31	19	16.79	155	23.54	3.37	1.8	1.9	26	0	133	.16	9	.7	8.4	18	SWR
		12	1237	45.73	19	16.33	155	22.32	7.06	1.8	2.3	30	2	134	.13	5	.5	1.3	20	SWR
		12	1327	29.36	19	18.28	155	13.43	6.10	1.7	1.6	28	2	85	.10	2	.5	1.0	18	SF2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	FEB	12	2328	16.98	19	19.37	155	7.09	3.79	1.9	1.3	23	3	121	.11	4	.4	1.3	11	SSF
		13	333	19.04	19	19.98	155	11.78	7.90	1.5	1.3	23	2	83	.07	5	.5	1.0	19	SF3
		13	647	34.22	19	19.69	155	6.81	7.42	1.9	1.9	31	2	120	.11	5	.5	1.0	16	SF4
		13	854	9.08	19	54.09	155	19.10	10.66	2.3	1.5	23	1	243	.08	3	1.5	.5	17	KEA
		13	1649	45.33	19	17.81	155	20.81	6.99	1.0	1.1	20	0	126	.08	4	.5	1.4	14	SWR
		14	0	3 52.76	19	18.59	155	14.88	7.66	1.2	1.1	28	2	105	.09	4	.5	.8	14	SF1
		14	713	6.30	19	24.15	155	.86	5.96		1.1	20	2	170	.12	4	.8	1.2	10	SF5
		14	11	1 11.30	19	23.76	154	58.86	6.02		1.4	22	3	163	.14	3	.8	1.0	14	LER
		14	1825	52.69	19	24.43	155	27.19	10.01	1.8	1.3	27	2	60	.11	4	.5	.9	14	KAO
		14	2311	54.02	19	20.17	155	6.56	8.86	3.4	3.4	43	4	112	.09	5	.4	.5	36	SF4
		15	043	19.69	19	21.22	155	2.46	7.84	1.3	1.2	20	2	141	.10	3	.6	1.0	10	SF5
		15	047	4.85	19	19.36	155	11.24	5.03	1.4	1.4	24	2	101	.08	6	.4	1.8	13	SF3
		15	225	5.66	19	23.16	155	24.39	10.99	2.5	2.7	41	3	41	.12	4	.3	.4	33	KAO
		15	337	55.67	19	21.30	155	2.35	6.93	1.3	1.1	17	1	150	.10	3	.6	1.1	10	SF5
		15	954	31.17	19	19.60	155	8.45	7.53	2.4	2.4	38	3	82	.10	4	.5	.8	23	SF4
		15	1259	40.20	19	20.60	155	12.99	7.37	1.2	1.3	27	2	64	.11	4	.5	.8	20	SF2
		15	19	6 20.42	19	19.65	155	7.53	8.70	2.8	2.9	38	3	105	.08	4	.4	.5	32	SF4
		15	19	9 9.07	19	19.58	155	7.30	8.18	2.2	2.5	36	3	111	.08	4	.5	.7	26	SF4
		16	7	0 57.23	19	19.80	155	7.65	7.37	1.3	1.5	29	3	99	.10	5	.5	.9	17	SF4
		16	1117	46.32	19	19.39	155	8.67	7.81	1.3	1.1	20	1	82	.08	4	.6	1.5	16	SF4
		16	1339	8.08	19	22.22	155	5.11	7.94	1.2	1.1	18	2	71	.10	2	.5	.7	12	SF5
		16	1540	27.70	19	19.85	155	6.87	7.23	1.2		21	2	115	.09	5	.6	1.5	17	SF4
		16	1858	3.87	19	19.81	155	7.72	7.87	1.4	1.1	23	2	98	.10	5	.6	1.2	16	SF4
		16	1947	35.33	19	31.17	155	41.10	7.47	2.2	1.4	29	3	105	.13	8	.6	1.3	20	MLO
		16	2033	6.53	19	23.88	155	27.78	10.17	1.7	1.4	32	1	45	.08	3	.4	.7	26	KAO
		16	2034	51.90	19	19.94	155	9.82	7.90	1.4		20	2	85	.08	4	.6	1.1	13	SF3
		17	043	48.59	19	19.33	155	11.77	7.21	1.4	1.1	20	1	97	.07	5	.6	1.3	14	SF3
		17	116	56.03	19	20.90	155	6.02	6.67	2.0	2.2	36	2	100	.11	4	.5	.8	20	SF4
		17	211	22.49	19	19.40	155	10.33	7.74	1.3	1.1	22	2	100	.06	5	.6	1.0	19	SF3
		17	222	32.06	19	19.71	155	11.11	32.78	1.6	1.2	33	0	92	.09	5	.8	1.4	26	DEP
		17	226	3.75	19	18.25	155	13.11	8.94	2.1	2.1	44	5	96	.11	2	.5	.4	33	SF2
		17	11	3 55.82	19	17.31	155	20.89	4.28	.8	1.1	20	3	133	.09	4	.5	1.5	13	SWR
		17	1721	23.52	19	19.96	155	7.13	7.53	1.3	1.3	21	0	107	.08	5	.7	1.5	18	SF4
		17	1956	28.39	19	25.18	155	39.43	3.68	2.2	2.5	21	2	209	.08	7	.8	2.5	16	MLO
		17	2337	48.47	19	18.47	155	15.12	5.18	1.6	1.6	28	3	112	.15	4	.6	1.8	17	SF1
		18	818	58.54	19	22.26	155	4.99	7.08		1.3	19	0	76	.13	3	.6	1.1	15	SF5
		18	1911	1.12	19	18.82	155	13.14	5.07	1.0	1.1	20	3	84	.07	3	.4	1.4	16	SF2
		18	2211	51.09	19	21.65	155	1.06	7.97	2.4	2.3	35	3	168	.10	5	.6	.5	23	SF5
		18	2217	51.24	19	19.84	155	16.78	6.75	1.5	1.1	28	3	92	.11	1	.4	.7	19	SF1
		18	2241	3.17	19	21.30	155	7.98	9.20	2.1	2.4	40	4	73	.09	4	.4	.5	32	SF4
		19	0	2 53.61	19	14.65	155	32.88	6.84	2.2	1.3	25	0	111	.15	5	.6	1.3	16	LSW
		19	121	53.75	19	26.02	155	28.49	7.71	1.6	1.1	31	2	62	.12	6	.4	1.1	23	KAO
		19	638	43.34	19	20.68	155	13.02	8.58	2.0	1.9	41	5	63	.12	4	.4	.6	28	SF2
		19	7	1 41.80	19	14.97	155	22.71	7.19	1.1	1.3	21	1	191	.09	3	.7	1.2	12	SWR
		19	1237	28.39	19	25.34	155	37.66	2.03	2.5	2.1	22	1	94	.12	4	.4	1.2	14	MLO
		19	1334	34.74	19	19.63	155	7.27	7.91	1.3	1.1	22	2	112	.07	4	.6	1.2	15	SF4
		19	1436	37.15	19	24.41	155	24.23	12.87	1.6	1.6	31	2	39	.10	2	.4	.6	24	KAO
		19	18	5 12.07	19	19.93	155	7.32	8.62	3.4	3.8	47	4	104	.09	5	.5	.4	35	SF4 F

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	FEB	19	1935	33.05	19	20.07	155	8.67	6.40	1.6	1.6	37	1	75	.13	4	.5	1.0	25	SF4
		20	324	18.74	20	12.25	156	41.22	36.17	2.7	3.2	35	1	255	.12	77	2.0	2.3	19	DIS
		20	5	1 46.90	19	27.05	155	24.12	7.06	2.8	2.8	46	2	31	.14	4	.4	.8	30	KAO
		20	554	9.12	19	20.37	155	8.75	8.42	1.1	1.1	21	2	72	.06	4	.6	1.1	12	SF4
		20	1549	40.75	19	19.08	155	13.40	6.49	1.2	1.1	17	2	76	.07	4	.5	1.4	15	SF2
		21	3	2 2.47	19	20.72	155	3.12	6.40	1.6	1.8	34	2	108	.11	2	.5	.6	21	SF5
		21	529	6.10	19	18.18	155	13.41	6.34	1.2	1.3	32	4	84	.11	2	.4	.8	16	SF2
		21	1016	20.17	19	19.70	155	7.54	4.33	1.4	1.1	31	2	103	.11	4	.5	1.7	17	SSF
		21	1240	40.02	20	2.59	155	59.26	10.87	2.9	3.0	23	2	253	.14	24	1.8	.8	20	KOH
		21	14	4 11.38	19	25.37	155	26.21	8.95	1.6	1.1	28	3	52	.10	2	.4	.9	21	KAO
		21	1535	41.90	19	19.14	155	11.57	7.18	1.3	1.1	23	2	104	.08	5	.5	1.1	18	SF3
		22	813	37.43	19	20.19	155	10.67	8.02	1.9	2.2	44	4	83	.11	4	.4	.6	35	SF3
		22	923	57.47	19	21.35	155	.06	6.05	1.9	2.0	29	1	188	.11	6	.8	.7	26	SF5
		22	11	8 1.37	19	1.25	155	16.20	5.20	2.4	2.5	26	0	274	.16	26	3.0	2.4	18	LOI L
		22	1934	30.24	19	14.45	155	34.66	4.38	2.2	1.9	33	2	108	.15	8	.5	2.9	21	LSW
		22	2114	15.35	19	23.93	155	1.46	8.52	2.1	2.1	34	3	135	.13	5	.6	.4	22	SF5
		22	22	6 36.59	19	21.13	155	30.18	7.51	2.0	1.5	35	1	48	.16	5	.5	1.3	26	KAO
		23	938	3.04	19	25.11	155	15.81	15.19	1.6	1.2	35	2	91	.08	2	.5	.4	26	DEP
		23	1943	45.62	19	26.51	155	37.03	3.38	2.5	2.3	21	2	119	.15	2	.6	.6	13	MLO
		23	2024	11.42	19	20.53	155	12.91	9.03	2.4	2.6	45	3	65	.12	4	.4	.5	37	SF2
		24	911	58.45	19	20.26	155	3.97	6.26	1.3	1.1	31	3	124	.14	2	.6	1.0	19	SF5
		24	1319	54.68	19	21.37	155	2.70	8.48	1.8	1.3	31	2	129	.07	3	.6	.5	19	SF5
		24	14	7 56.42	19	17.21	155	13.19	4.83	1.8	2.3	35	1	149	.12	1	.5	1.0	25	SSF
		24	1721	15.03	19	17.18	155	13.23	5.25	2.1	2.4	39	4	149	.12	1	.5	1.0	34	SF2
		24	1849	46.08	19	25.28	155	38.09	1.86	3.7	3.6	34	2	100	.13	5	.4	1.0	25	MLO
		24	22	3 21.00	19	19.40	155	12.31	4.69	1.5	1.3	28	2	89	.13	5	.4	1.8	16	SSF
		24	22	8 16.63	19	20.35	155	7.10	6.29	1.4	1.2	31	3	100	.12	5	.5	1.0	18	SF4
		25	239	55.60	19	18.69	155	15.97	8.52	1.3	1.3	29	4	117	.07	4	.4	.6	19	SF1
		25	527	22.77	19	20.46	155	11.20	7.43	1.9	1.4	20	1	77	.05	4	.4	.9	13	SF3
		25	529	31.20	19	20.45	155	11.34	5.29	1.5	1.3	14	0	94	.10	4	.6	1.9	10	SF3
		25	1238	47.29	19	18.27	155	15.55	6.30	1.0	1.1	30	2	113	.11	4	.5	1.0	18	SF1
		25	1751	34.57	19	20.24	155	11.33	7.44	1.6	1.1	31	3	81	.11	4	.5	.9	26	SF3
		25	1959	23.11	19	20.82	155	11.73	7.45	1.4	1.9	37	4	70	.10	4	.4	.6	25	SF3
		25	20	4 13.60	19	20.29	155	11.36	7.35	1.7	1.1	30	3	80	.09	4	.4	.8	22	SF3
		26	0	2 15.88	19	26.34	155	24.61	4.43	1.5	1.1	17	2	117	.10	2	.5	1.1	13	KAO
		26	357	44.23	19	20.47	155	2.92	4.73	1.4	1.1	12	0	132	.06	1	.6	.9	10	SSF
		26	1116	26.58	19	18.47	155	15.45	6.68	1.4	1.5	29	3	106	.10	4	.5	.8	23	SF1
		27	513	4.92	19	19.50	155	11.28	9.56	2.6	3.0	43	1	96	.10	5	.4	.4	36	SF3
		27	6	7 51.79	19	26.48	155	28.93	5.67	1.7	1.1	22	2	66	.09	8	.4	2.2	16	KAO
		27	621	24.31	19	45.02	156	27.12	3.51	2.9	1.9	43	1	284	.13	63	3.1	2.4	35	DIS
		27	747	42.52	19	21.13	155	13.11	8.15	1.9	1.8	43	4	58	.12	3	.4	.5	32	SF2
		27	8	6 53.76	19	20.44	155	12.80	10.16	2.0	2.2	25	1	67	.10	4	.5	.7	22	SF2
		27	1031	30.81	19	18.51	155	15.89	5.95	1.5	1.3	25	1	110	.12	4	.5	1.0	16	SF1
		27	2313	49.57	19	19.51	155	8.53	7.37	1.4	1.1	17	1	80	.10	4	.6	1.0	11	SF4
		28	5	0 49.71	19	11.04	155	28.13	7.15	2.3	2.4	33	2	113	.14	3	.5	.8	21	LSW
		28	616	51.29	19	20.14	155	7.10	8.69	2.6	2.5	40	4	104	.08	5	.4	.5	32	SF4
		28	1638	56.35	19	18.46	155	15.08	4.99	.4	1.1	27	2	102	.11	4	.4	1.3	16	SSF
MAR		1	010	26.32	19	19.66	155	8.50	6.50	1.4	1.1	29	1	80	.10	4	.5	1.2	19	SF4

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	MAR	1	437	36.84	19	25.37	155	39.07	2.81	2.7	2.0	21	2	202	.10	6	.8	1.6	13	MLO	
		1	633	42.87	19	19.81	155	11.09	8.95	1.5	1.1	29	3	90	.09	5	.5	.8	19	SF3	
		1	1054	3.60	19	19.76	155	13.08	7.47	1.2	1.1	27	2	72	.10	5	.5	1.0	14	SF2	
		1	1416	55.84	19	40.18	155	3.34	.25	2.9	2.7	32	1	203	.18	18	1.0	1.9	12	HIL	*
		1	1552	16.74	19	29.26	155	36.90	3.22	2.5	2.3	19	0	205	.11	2	.9	.5	13	MLO	
		1	1647	17.81	19	29.75	155	16.25	37.24	1.4	2.7	34	0	56	.12	9	.7	1.9	19	DEP	
		1	1654	34.21	19	20.03	155	11.78	7.69	1.7	1.6	31	3	82	.09	5	.5	.7	23	SF3	
		1	1719	43.46	19	26.33	155	38.51	3.30	2.5	2.2	18	1	202	.08	4	.8	1.1	14	MLO	
		1	1752	26.22	19	19.43	155	16.38	8.24	1.9	2.2	41	2	98	.13	2	.5	.6	27	SF1	
		1	2012	59.76	19	31.46	155	.72	50.95	2.3	1.9	30	0	196	.09	6	2.2	4.2	24	DEP	
		2	220	11.01	19	28.24	155	35.66	.26	2.6	2.5	16	2	97	.09	1	.2	.2	8	MLO	
		2	229	51.18	19	19.99	155	8.40	4.96	1.1	1.1	22	2	81	.12	5	.6	1.6	12	SSF	
		2	338	48.64	19	25.49	155	37.71	1.53	3.1	3.1	33	2	95	.11	4	.4	.9	28	MLO	
		2	434	7.86	19	22.27	155	.25	7.28	2.1	1.4	19	1	179	.09	6	.7	1.0	9	SFS	
		2	444	14.82	19	26.16	155	38.97	4.18	2.6	2.1	22	2	209	.10	5	.9	2.0	17	MLO	
		2	1359	31.39	19	43.78	156	5.23	25.88	2.9	2.2	24	2	240	.11	26	1.6	2.1	22	HUA	
		2	1728	50.78	19	26.20	155	38.35	2.82	2.8	2.9	25	1	187	.10	4	.7	1.0	13	MLO	
		2	2130	15.57	19	19.92	155	10.87	6.26	1.9	1.5	30	4	88	.09	4	.4	.9	16	SF3	
		3	035	9.83	19	21.28	155	1.54	4.41	1.4	1.1	30	3	168	.22	4	.7	1.6	18	SSF	
		3	7	4 52.03	19	22.77	155	17.47	25.68	2.0	1.4	37	0	32	.09	1	.6	1.0	30	DEP	
		3	947	52.03	19	22.45	155	29.76	8.64	2.3	2.2	40	2	33	.11	4	.3	.8	34	KAO	
		3	1227	24.76	19	21.62	155	2.72	8.02	2.0	1.6	29	1	127	.13	3	.6	.7	22	SF5	
		3	1242	56.70	19	19.74	155	7.90	6.48	1.3	1.2	28	3	95	.10	4	.5	1.1	19	SF4	
		3	14	0 58.04	19	18.39	155	13.36	7.81	1.7	1.7	36	5	83	.08	3	.4	.6	23	SF2	
		3	1654	52.70	19	26.45	155	27.64	8.63	1.7	1.3	33	3	54	.11	5	.4	.9	23	KAO	
		3	1713	59.29	19	20.47	155	6.76	7.12	1.3	1.4	30	2	102	.10	5	.5	.8	19	SF4	
		4	321	45.65	19	20.63	155	13.05	7.98	1.6	1.2	33	2	63	.11	4	.5	.7	20	SF2	
		4	6	8 16.73	19	19.11	155	15.73	8.44	2.1	2.3	40	3	106	.11	3	.4	.6	27	SF1	
		4	912	33.95	19	24.52	155	25.80	9.05	1.5	1.1	30	4	40	.11	2	.4	.7	20	KAO	
		4	1313	53.22	19	19.90	155	4.63	4.72	1.4	1.5	24	2	143	.10	3	.5	1.3	11	SSF	
		4	1315	1.46	19	19.69	155	4.52	5.25	2.1	2.3	25	1	154	.12	3	.5	.9	12	SF5	
		4	16	3 41.91	19	20.80	155	30.65	6.38	2.0	1.5	29	1	52	.16	6	.5	1.6	17	KAO	
		4	1615	13.95	19	20.77	155	30.45	10.03	2.0	1.4	30	1	52	.09	6	.4	.8	17	KAO	
		4	1640	3.95	19	18.81	155	13.20	5.96	2.0	2.3	41	2	82	.12	3	.4	.8	23	SF2	
		4	1648	26.64	19	19.60	155	8.06	7.36	1.4	1.5	34	3	91	.10	4	.4	.8	17	SF4	
		4	1650	25.12	19	16.48	155	15.11	6.66	1.8	1.5	28	3	174	.09	3	.6	.9	18	SF1	
		4	17	8 41.93	19	21.27	155	2.46	7.91	2.5	2.5	42	6	140	.11	3	.5	.5	24	SF5	
		4	2220	10.30	19	24.01	155	24.99	8.35	2.6	2.7	42	4	37	.13	2	.4	.7	32	KAO	
		4	2327	23.85	19	21.62	155	3.12	8.40	3.4	3.6	46	1	112	.12	3	.5	.4	42	SF5	F
		4	2335	42.70	19	21.04	155	2.74	8.08	1.8	1.5	31	3	131	.11	2	.6	.8	15	SF5	
		5	011	1.21	19	32.20	155	42.66	7.79	2.4	1.8	33	2	82	.12	6	.5	1.3	25	MLO	
		5	217	55.79	18	55.32	155	29.72	37.30	2.5	2.7	39	0	243	.07	19	1.7	2.2	35	DLS	
		5	223	59.31	19	19.92	155	8.36	9.19	2.5	2.6	43	3	81	.11	5	.4	.4	36	SF4	
		5	440	52.98	19	22.22	155	2.15	6.38	1.6	1.1	28	2	135	.18	5	.6	1.0	17	SF5	
		5	751	14.17	19	21.32	155	2.55	6.24	1.6	1.3	27	2	135	.12	3	.6	1.0	17	SF5	
		5	1610	2.45	19	45.51	156	8.05	40.37	3.5	3.4	45	3	249	.12	32	1.2	1.6	40	HUA	
		5	2127	43.49	19	18.67	155	15.16	7.11	1.0	1.1	28	2	98	.12	4	.5	1.0	18	SF1	
		5	2228	52.57	19	20.07	155	8.11	6.63	2.0	1.6	35	3	86	.11	5	.4	1.0	22	SF4	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	MAR	6	151	28.40	19	26.32	155	38.58	3.12	2.2	2.2	22	2	203	.11	4	.7	.9	16	MLO	
		6	242	16.45	19	20.01	155	6.68	8.46	1.4	1.3	29	1	114	.09	5	.5	.8	24	SF4	
		6	917	11.41	19	21.45	155	1.85	5.06	1.3	1.1	28	2	163	.16	3	.7	1.2	14	SF5	
		6	934	25.14	19	30.18	155	41.50	6.79	2.6	2.4	41	4	74	.14	8	.5	1.1	34	MLO	
		6	1029	54.00	19	22.61	155	27.61	6.21	1.3	1.1	22	1	44	.10	0	.4	.8	15	KAO	
		6	1047	26.30	19	34.92	155	8.02	19.43	2.1	1.3	34	1	67	.11	16	.5	2.0	25	HIL	
		6	2341	49.66	19	21.38	155	3.40	7.86	2.3	2.3	41	4	101	.10	3	.4	.5	26	SF5	
		7	640	32.61	19	21.58	155	1.54	6.23	1.9	1.7	33	3	160	.14	4	.6	.8	23	SF5	
		7	2017	43.73	19	22.62	155	.60	7.37	1.6		30	2	168	.16	6	.7	.8	19	SF5	
		7	2135	19.02	19	26.28	155	24.92	8.35	1.6	1.1	31	4	34	.13	2	.4	.8	18	KAO	
		7	2240	9.61	19	20.13	155	3.92	7.09	1.5	1.5	26	3	133	.12	2	.6	1.0	15	SF5	
		8	641	3.40	19	11.97	155	35.58	11.49	4.5	4.3	39	1	207	.14	6	.9	.5	38	LSW	F
		8	735	54.82	19	19.47	155	8.71	6.91	1.4	1.3	30	3	81	.09	4	.5	1.0	19	SF4	
		8	1713	56.56	19	27.93	154	52.62	4.07	1.6	1.4	25	1	120	.12	3	.7	1.3	16	SLE	
		8	1918	52.00	19	20.02	155	12.62	8.65	1.4	1.1	28	2	74	.11	5	.5	.8	18	SF2	
		8	2245	41.81	19	17.15	155	23.18	6.02	1.8	1.5	24	2	106	.09	5	.4	1.0	16	SWR	
		9	6	3 14.89	19	19.97	155	17.63	34.42	2.4	2.0	41	1	80	.09	1	.7	1.1	36	DEP	
		9	931	28.50	19	19.65	155	12.04	5.07	1.5		30	3	88	.11	5	.4	1.4	19	SF3	
		9	15	2 38.45	19	21.42	155	1.70	5.43	1.9	1.5	27	3	160	.14	4	.5	1.1	17	SF5	
		9	1537	55.64	19	20.38	155	12.23	9.98	1.5	1.1	25	1	74	.08	4	.6	.9	18	SF3	
		9	1749	53.05	19	22.44	155	27.47	8.91	1.8	1.7	32	3	42	.09	0	.4	.7	22	KAO	
		9	1855	45.46	19	37.91	156	3.64	32.53	2.6	2.4	33	2	235	.10	22	1.2	1.6	30	KON	
		9	1920	56.31	19	21.43	155	13.29	9.02	1.7	1.8	36	4	54	.09	2	.4	.6	23	SF2	
		9	2040	50.33	19	7.63	155	24.76	44.18	2.2	1.4	23	1	181	.08	6	1.5	2.6	13	LOI	L
		9	2126	56.86	19	13.67	155	57.36	40.49	2.6	2.4	42	0	236	.08	10	1.8	2.3	39	KON	
		9	22	1 30.54	19	16.23	155	23.54	3.81		1.3	20	3	109	.11	4	.5	1.4	17	SWR	
		10	011	23.55	19	20.37	155	13.56	8.61	1.6	1.8	32	4	61	.11	4	.4	.6	23	SF2	
		10	227	16.04	19	19.01	155	15.33	8.15	1.7	1.5	32	3	94	.11	4	.4	.7	23	SF1	
		10	642	53.23	19	20.08	155	8.46	6.96	1.2	1.1	21	2	79	.11	4	.5	1.1	13	SF4	
		10	2027	6.02	19	23.74	155	26.00	8.62	1.7	1.7	35	2	46	.13	3	.4	.8	29	KAO	
		11	056	35.55	19	17.68	155	16.00	7.57	.8	1.3	25	2	143	.11	5	.6	1.0	15	SF1	
		11	246	2.94	19	26.99	154	52.27	4.87	1.3	1.2	15	0	168	.11	2	.9	1.3	12	SLE	
		11	331	34.03	19	20.48	155	9.02	6.72	2.0	2.2	45	5	69	.13	3	.5	.8	32	SF4	
		11	419	21.77	19	21.46	155	3.25	5.75	1.6	1.2	23	3	115	.15	3	.5	1.1	15	SF5	
		11	429	28.62	19	25.53	155	37.62	1.17	2.7	3.2	31	0	93	.12	4	.4	1.2	20	MLO	
		11	12	0 1.55	19	16.76	155	15.67	6.02		1.2	21	1	168	.11	4	.7	1.1	15	SF1	
		11	22	5 58.61	19	20.60	155	10.96	8.22	2.0	2.2	38	1	76	.13	3	.5	.8	30	SF3	
		12	1344	34.32	19	20.52	155	12.67	8.55	2.6	2.7	47	4	67	.12	4	.4	.5	34	SF2	
		12	1659	2.28	19	19.74	155	6.87	8.96	2.5	2.9	42	5	117	.10	5	.5	.4	32	SF4	
		12	2243	4.93	19	58.92	155	19.98	13.53	3.0	3.1	45	2	204	.11	10	.9	.6	30	KEA	F
		13	0	5 19.78	19	14.10	155	29.87	11.75	2.1	1.4	31	2	119	.12	2	.6	.4	27	LSW	
		13	431	15.86	19	14.55	155	29.83	11.22	2.1	1.2	29	2	115	.13	1	.5	.6	20	LSW	
		13	1745	29.30	19	48.45	155	31.27	27.47	2.6	1.7	43	2	100	.10	7	.5	1.3	34	KEA	
		14	036	14.44	19	7.98	155	35.07	10.98	2.3	1.6	28	1	130	.13	13	.5	.7	15	LSW	
		14	122	14.40	19	8.11	155	35.07	9.79	2.6	2.7	34	2	129	.14	13	.5	.9	24	LSW	
		14	124	43.69	19	8.22	155	35.32	10.13	2.1	1.8	28	2	127	.13	13	.5	1.0	16	LSW	
		14	1228	42.43	19	21.84	155	.55	4.48	2.1	1.7	29	2	173	.16	6	.8	2.2	16	SSF	
		15	015	25.09	19	18.16	155	13.22	5.53	1.3	1.1	27	4	93	.08	2	.5	1.1	20	SF2	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	MAR	15	652	29.50	19	35.24	156	24.69	34.92	3.1	3.1	37	0	237	.10	53	2.0	2.3	33	DIS	
		15	1217	19.84	19	21.00	155	13.04	7.73	1.6	1.5	37	3	67	.13	3	.5	.7	29	SF2	
		15	1336	.07	19	19.18	155	13.19	6.19	1.6	1.3	29	2	77	.11	4	.4	1.1	18	SF2	
		15	1356	13.64	19	18.65	155	13.26	6.34	1.7	1.3	27	2	83	.11	3	.5	1.0	21	SF2	
		15	15	6 25.21	19	16.57	155	22.95	4.83	1.9	2.2	39	2	118	.15	5	.4	1.5	32	SWR	
		15	16	4 27.85	19	19.45	155	15.53	8.12	2.0	2.1	36	2	97	.11	4	.4	.6	29	SF1	
		15	1934	36.03	19	21.50	155	.86	8.10	1.6	1.2	24	1	191	.11	5	1.2	.6	14	SF5	
		16	219	44.72	19	20.21	155	7.14	6.47	1.4	1.1	26	2	102	.11	5	.5	1.2	10	SF4	
		16	320	35.49	19	20.36	155	3.62	7.33	1.9	1.5	31	2	110	.11	1	.7	.5	16	SF5	
		16	934	28.13	19	9.02	155	35.07	4.66	2.4	1.5	26	0	120	.14	12	.5	3.8	21	LSW	
		16	1218	33.20	19	21.17	155	2.69	8.39	2.1	1.7	31	3	139	.11	2	.8	.5	23	SF5	
		16	1333	28.02	19	21.52	155	1.86	6.49	1.4	1.5	30	2	154	.18	4	.7	.8	18	SF5	
		16	1610	7.13	18	27.17	154	16.71	39.46	4.3	5.0	42	0	318	.11	127	13.6	2.9	42	DIS	
		16	2124	15.49	19	21.08	155	7.99	8.20	.9	1.1	24	2	76	.08	4	.5	.8	18	SF4	
		16	2314	25.24	19	17.85	155	13.05	6.69	1.6	1.3	27	2	111	.10	2	.5	.9	16	SF2	
		16	2352	11.50	19	25.02	155	38.32	.02	2.4	2.1	25	1	103	.21	5	.6	1.4	13	MLO	*
		17	059	39.46	19	17.72	155	13.17	7.53	1.9	1.7	32	3	108	.11	1	.6	.8	21	SF2	
		17	1835	42.74	19	20.10	155	11.82	10.20	3.1	3.2	41	1	81	.08	5	.4	.3	34	SF3	
		18	331	57.81	19	20.20	155	12.52	7.12	1.8	1.6	33	3	73	.10	5	.4	.7	22	SF2	
		18	651	23.76	19	19.11	155	15.45	7.14	1.3	1.2	26	1	103	.10	4	.5	1.0	21	SF1	
		18	1020	49.21	19	18.89	155	15.08	8.16	1.9	1.5	31	1	93	.11	4	.5	.7	23	SF1	
		18	1845	30.05	19	23.29	155	26.56	10.03	3.5	3.8	48	3	31	.13	2	.4	.5	43	KAO	F
		18	20	9 41.93	19	20.59	155	13.48	7.55	1.6	1.6	30	1	59	.11	4	.5	.8	22	SF2	
		19	1	9 11.26	19	20.26	155	13.22	8.01	1.5	1.5	35	4	65	.11	4	.5	.7	22	SF2	
		19	2	0 59.08	19	18.20	155	15.10	5.47	1.3	1.1	25	2	120	.10	4	.5	1.3	15	SF1	
		19	655	20.27	19	21.47	155	24.75	8.56	2.0	1.8	33	4	45	.11	3	.4	.6	23	SWR	
		19	720	37.49	19	16.19	155	21.43	7.50	1.9	2.4	40	5	140	.12	6	.4	.8	28	SWR	
		19	745	46.06	19	16.07	155	21.08	7.03	1.7	2.1	37	4	143	.11	6	.4	.7	25	SWR	
		19	1543	15.67	19	22.01	154	59.09	8.76	2.2	2.2	34	3	196	.15	6	1.1	.5	20	LER	
		19	2038	11.31	19	24.21	155	17.56	16.38	2.4	2.3	44	4	37	.10	2	.4	.4	35	DEP	
		20	3	8 21.55	19	11.99	155	37.98	8.95	2.5	2.3	39	3	99	.19	6	.6	.8	30	LSW	
		20	553	26.55	19	20.51	155	3.57	4.12	1.4	1.1	20	2	99	.22	2	1.0	1.5	13	SSF	
		20	6	5 21.83	19	14.10	155	39.63	8.63	2.1	1.7	29	1	234	.15	5	1.3	.8	17	LSW	
		20	713	12.21	19	20.99	155	8.65	7.66	1.9	2.1	37	2	68	.12	3	.4	.7	30	SF4	
		20	838	26.70	19	19.71	155	6.96	8.95	2.8	3.2	36	2	116	.10	5	.6	.4	33	SF4	
		20	935	39.26	19	24.18	155	19.97	15.52	2.8	2.6	44	2	36	.11	1	.5	.3	37	DML	
		20	1317	58.01	19	17.97	155	14.99	7.19	1.2	1.4	28	0	114	.12	3	.6	1.0	23	SF1	
		20	1652	45.13	19	33.23	155	43.37	7.38	1.9	1.2	20	1	116	.14	7	.6	1.6	14	KON	
		20	1718	39.21	19	21.43	155	2.99	6.88	4.8	5.0	45	1	169	.11	6	.7	.6	43	SF5	F
		20	1744	12.12	19	20.46	155	4.15	2.50	1.2	1.3	15	3	115	.08	2	.4	.5	8	SSF	
		20	1753	23.48	19	20.60	155	3.33	5.55	1.4	1.5	26	2	99	.12	1	.6	.9	17	SF5	
		20	1759	43.07	19	19.09	155	13.09	4.99	1.3	1.1	30	3	81	.12	4	.4	1.4	22	SSF	
		20	1845	2.15	19	20.97	155	1.85	3.05	2.1	2.5	32	2	168	.12	3	.5	.7	24	SSF	
		20	2047	56.17	19	20.34	155	2.60	6.94	1.3	1.3	23	2	174	.13	1	.8	.8	11	SF5	
		20	2140	36.16	19	20.31	155	2.80	5.27	1.5	1.5	20	2	142	.14	1	.6	1.1	10	SF5	
		20	23	2 21.41	19	21.91	155	25.12	11.27	3.9	4.0	49	4	38	.12	5	.3	.4	44	KAO	F
		20	23	7 .47	19	21.42	155	25.63	9.62	1.6	1.1	32	4	49	.10	4	.4	.7	26	KAO	
		20	2356	50.98	19	20.83	155	13.27	7.37	1.8	1.5	37	3	59	.14	3	.5	.8	29	SF2	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	MAR	20	2357	14.84	19	20.84	155	13.46	8.11	2.3	2.5	39	3	57	.13	3	.4	.6	32	SF2	
		21	037	28.88	19	22.01	155	25.42	11.32	3.4	3.6	46	3	39	.13	4	.4	.4	41	KAO	
		21	128	41.37	19	21.86	155	25.12	8.73	1.4	1.1	20	3	54	.10	4	.5	.9	19	KAO	
		21	130	.70	19	21.67	155	25.42	10.20	1.4	1.1	25	3	46	.11	4	.5	.8	17	KAO	
		21	243	39.60	19	20.18	155	4.21	3.25	1.1	1.5	21	2	130	.10	2	.4	.7	12	SSF	
		21	3	7 33.80	19	21.81	155	2.06	2.40	1.4	1.5	20	2	152	.12	4	.4	.9	13	SSF	
		21	4	0 7.36	19	20.49	155	2.82	7.13	1.3	1.1	18	2	142	.10	1	.7	1.0	11	SF5	
		21	839	6.79	19	20.33	155	2.37	5.23	1.5	1.4	26	1	177	.17	1	.8	1.0	17	SF5	
		21	1312	.94	19	21.06	155	2.35	5.13	1.9	1.7	27	3	148	.12	2	.5	.9	13	SF5	
		21	1454	57.76	19	19.21	155	12.11	3.87	1.6	1.3	23	4	96	.12	5	.4	1.4	16	SSF	
		21	2136	23.05	19	21.22	155	27.76	11.16	3.3	3.3	47	4	42	.13	2	.4	.5	36	KAO	
		21	2146	41.06	19	20.87	155	2.08	5.30	1.7	1.7	26	1	164	.11	2	.6	.8	14	SF5	
		22	135	56.94	19	21.57	155	1.68	6.65	2.5	2.3	39	5	157	.12	4	.4	.6	22	SF5	
		22	251	42.84	19	8.07	155	35.31	8.51	2.4	2.2	32	1	128	.15	13	.5	1.0	22	LSW	
		22	851	22.20	19	20.56	155	4.42	5.76	2.0	1.9	19	1	113	.06	3	.5	.9	12	SF5	
		22	944	50.64	19	22.59	155	24.49	9.44	1.8	1.3	37	5	40	.12	5	.4	.5	29	KAO	
		22	1037	.69	19	21.72	155	3.06	1.17	1.3	1.1	18	3	125	.13	3	.3	.8	14	SSF	
		22	1345	4.42	19	21.04	155	2.16	3.97	1.5	1.1	22	2	156	.16	3	.7	1.1	13	SSF	
		22	1948	53.38	19	19.25	155	13.39	7.20	1.4	1.3	32	3	72	.11	4	.5	.9	24	SF2	
		22	2043	7.04	19	21.82	155	.32	7.55	2.3	2.1	41	3	177	.18	6	.8	.6	27	SF5	
		23	223	21.16	19	24.52	155	29.22	8.28	1.9	1.3	36	1	49	.09	5	.4	.8	30	KAO	
		23	224	24.29	19	22.14	155	24.56	9.86	1.8	1.8	40	4	41	.13	4	.4	.6	31	KAO	
		23	316	53.16	19	20.81	155	3.44	4.44	1.3	1.5	28	2	92	.14	2	.5	1.2	15	SSF	
		23	318	1.52	19	20.68	155	2.85	5.22	1.3	1.1	17	2	136	.14	1	.6	1.2	14	SF5	
		23	1058	47.30	19	20.53	155	3.23	6.19	2.0	2.1	31	2	97	.09	1	.5	.7	22	SF5	
		23	1925	16.23	19	17.24	155	27.66	10.35	1.8	1.5	27	1	52	.13	6	.4	.8	16	LSW	
		23	2255	20.58	19	20.47	155	12.14	8.55	1.3	1.1	29	1	72	.10	4	.5	.8	17	SF3	
		24	259	33.25	19	25.60	155	28.25	10.94	3.0	2.5	47	2	34	.11	6	.3	.4	40	KAO	
		24	348	1.74	19	24.89	154	57.32	5.73	2.0	1.2	32	3	161	.15	3	.7	.9	20	LER	
		24	456	25.70	19	22.11	155	.79	7.72	2.0	1.5	31	5	179	.13	6	.7	.5	19	SF5	
		24	633	14.73	19	24.77	155	25.62	7.30	1.6	1.1	30	3	50	.10	1	.4	.8	22	KAO	
		24	943	13.80	19	19.40	155	8.71	5.97	1.1	1.1	28	4	83	.11	4	.5	1.3	18	SF4	
		24	1026	53.78	19	19.54	155	11.46	6.61	1.3	1.2	26	2	94	.09	5	.5	1.1	22	SF3	
		24	1922	42.73	19	19.79	155	10.14	6.09	1.3	1.0	27	3	90	.11	4	.6	1.3	21	SF3	
		25	147	46.66	19	19.46	155	8.70	5.75	1.3	1.0	24	4	81	.08	4	.4	1.3	17	SF4	
		25	2	0 21.53	19	23.86	155	25.88	8.73	2.3	2.7	46	4	39	.13	3	.4	.6	35	KAO	
		25	441	23.04	19	20.24	155	13.53	6.63	.8	1.0	20	1	67	.08	5	.5	1.2	17	SF2	
		25	7	3 2.26	19	20.11	155	11.58	7.95	1.4	1.2	29	3	83	.07	5	.4	.8	20	SF3	
		25	858	12.40	19	24.57	155	26.30	8.68	2.4	2.8	43	3	41	.14	2	.4	.8	33	KAO	
		25	952	28.26	19	19.49	155	8.58	5.13	1.4	1.1	28	3	79	.12	4	.5	1.1	20	SF4	
		25	14	1 55.41	19	30.56	155	37.54	5.38	1.2	1.2	19	3	152	.21	4	.9	1.5	11	MLO	
		25	2227	11.22	19	20.69	155	2.90	4.84	1.5	1.5	20	1	125	.11	1	.6	1.2	14	SSF	
		26	031	49.67	19	28.66	155	38.88	5.95	1.7	1.4	27	3	108	.12	5	.5	.7	15	MLO	
		26	424	.82	19	20.08	155	6.78	8.47	2.2	2.5	35	2	111	.07	5	.4	.6	24	SF4	
		26	16	4 35.97	19	16.31	155	14.92	6.07	1.1	1.1	24	2	178	.19	3	.9	1.5	16	SF1	
		26	20	9 39.58	19	20.42	155	6.54	8.54	2.4	2.5	44	5	106	.09	5	.4	.5	31	SF4	
		26	21	5 31.63	19	20.62	155	26.21	9.81	1.4	1.3	28	3	53	.11	4	.4	.7	19	KAO	
		26	2130	25.95	19	21.16	155	6.81	8.25	1.2	1.3	28	3	88	.09	4	.5	.9	13	SF4	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	MAR	26	2135	3.68	19	19.78	155	13.63	7.63	1.6	1.3	37	4	65	.11	5	.4	.7	28	SF2
		26	2146	42.89	19	19.56	155	13.57	7.39	1.3	1.0	30	2	65	.08	5	.4	.8	18	SF2
		27	033	57.73	19	23.69	155	29.57	9.82	1.9	1.2	24	1	74	.09	4	.5	.9	16	KAO
		27	055	49.83	19	19.41	155	11.65	6.88	1.3	1.1	24	2	96	.08	5	.5	.9	20	SF3
		27	056	21.69	19	19.50	155	11.71	5.72	1.3	1.5	26	2	93	.12	6	.5	1.5	19	SF3
		27	155	39.98	19	20.93	155	6.99	6.51	1.6	1.5	31	2	91	.10	4	.4	.9	22	SF4
		27	449	48.45	19	20.99	155	3.25	7.05	1.8	1.3	29	2	115	.14	2	.6	1.1	16	SF5
		27	451	55.07	19	17.03	155	25.78	9.01	.9	1.3	20	2	97	.15	6	.6	.8	11	LSW
		27	827	57.93	19	18.96	155	11.56	4.77	1.2	1.0	28	4	109	.11	5	.5	1.9	18	SSF
		27	1844	44.95	19	20.74	155	6.75	8.83	1.1	1.1	23	3	97	.09	4	.6	1.0	14	SF4
		29	031	12.45	19	12.46	155	29.92	7.11	2.2	1.1	31	1	70	.21	5	.6	1.2	16	LSW
		29	257	23.02	19	20.69	155	2.44	5.93	1.3	.9	19	3	155	.10	2	.5	.9	10	SF5
		29	322	27.18	19	20.36	155	6.64	8.56	1.8	1.1	23	0	106	.11	5	.6	1.4	19	SF4
		29	354	39.92	19	20.14	155	20.83	31.50	3.2	3.4	48	2	72	.10	4	.6	.9	45	DEP
		29	9	1 25.89	19	22.44	155	30.16	10.29	2.0	1.2	23	0	85	.08	4	.5	1.3	17	KAO
		29	1848	57.04	19	19.94	155	8.23	8.44	1.9	1.7	37	3	84	.09	5	.4	.7	24	SF4
		30	236	50.72	19	18.97	155	13.81	7.53	1.5	1.3	30	2	75	.11	4	.5	.9	18	SF2
		30	1023	38.44	19	20.31	155	11.77	8.20	2.1	1.9	41	5	77	.11	5	.4	.6	26	SF3
		31	157	19.29	19	29.43	155	2.77	45.28	2.3	2.0	41	0	69	.13	2	1.0	2.6	38	DEP
		31	341	12.51	19	18.51	155	11.45	5.95	1.5	1.1	28	3	124	.12	4	.5	1.1	20	SF3
		31	533	49.41	19	23.34	155	26.52	8.25	1.6	1.1	26	1	46	.09	3	.4	.9	19	KAO
		31	11	2 36.41	19	17.73	155	23.19	4.03	1.7	2.2	28	2	99	.10	5	.4	1.5	24	SWR
		31	11	3 37.19	19	17.75	155	23.24	5.75	2.0	2.5	32	1	99	.13	5	.5	1.3	26	SWR
		31	2314	35.27	20	16.40	156	49.68	9.31	2.6	1.6	36	2	268	.12	81	3.3	5.6	24	DIS
		31	2324	16.04	19	20.27	155	8.01	7.25	1.9	2.2	34	2	85	.09	5	.4	.8	19	SF4
	APR	1	2	2 59.68	19	45.33	155	50.23	15.36	1.9	1.7	26	2	187	.21	8	2.1	1.3	17	HUA
		1	8	0 50.66	19	29.18	155	39.26	6.23	1.6	1.1	18	4	115	.09	6	.5	1.0	15	MLO
		1	1337	24.17	19	18.14	155	16.85	9.24	2.6	2.8	42	3	123	.13	3	.5	.5	33	SF1
		1	1518	29.78	19	18.95	155	13.81	7.41	1.7	1.3	23	0	86	.08	4	.5	1.1	18	SF2
		1	1540	37.23	19	20.50	155	12.00	7.78	1.6	1.3	28	3	73	.11	4	.6	.9	20	SF3
		1	2055	5.89	19	26.94	155	27.39	8.06	2.1	1.3	33	2	53	.11	8	.4	1.1	20	KAO
		2	054	43.69	19	20.41	155	12.07	8.72	1.5	1.5	30	1	74	.09	4	.5	.7	23	SF3
		2	5	5 37.13	19	20.40	155	2.68	1.90	1.6	1.1	28	2	182	.18	11	1.0	1.6	10	SSF
		2	510	46.60	19	18.75	155	15.34	8.45	2.3	2.3	44	5	99	.13	4	.5	.5	28	SF1
		2	7	0 42.33	19	19.41	155	8.81	6.50	1.6	1.5	29	2	84	.10	4	.5	1.2	19	SF4
		2	1322	26.81	19	30.22	155	15.14	6.11	1.5	1.3	36	4	58	.14	10	.4	1.8	27	GLN
		2	1519	58.62	19	11.49	155	37.83	8.21	2.8	2.5	38	2	100	.20	7	.6	1.2	29	LSW
		2	1548	48.58	19	22.60	155	19.68	30.72	2.6	2.4	46	3	40	.14	2	.6	1.0	40	DML
		3	221	59.72	19	20.82	155	17.61	34.77	2.4	2.3	46	3	35	.12	1	.7	1.0	41	DEP
		3	420	16.36	19	20.17	155	4.26	6.31	2.5	2.6	39	4	131	.10	2	.4	.7	23	SF5
		3	1356	13.97	19	20.48	155	2.47	4.99	1.4	1.1	17	0	182	.17	1	1.5	1.6	7	SSF
		3	1628	44.51	19	20.20	155	7.35	7.76	1.4	1.3	28	1	99	.11	5	.5	.9	16	SF4
		3	2149	19.68	19	21.28	155	2.17	6.74	1.9	1.4	29	3	158	.15	3	.6	.8	18	SF5
		4	243	44.14	19	19.90	155	7.62	8.84	2.2	2.3	39	3	99	.09	5	.4	.5	23	SF4
		4	1144	47.60	19	25.82	155	37.59	2.96	2.9	3.2	31	2	94	.12	4	.4	.9	27	MLO
		4	1232	48.04	19	19.17	155	13.09	6.35		1.3	21	0	80	.11	4	.5	1.2	18	SF2
		4	1340	58.56	19	24.64	154	57.30	7.89	1.9	1.2	22	2	171	.15	3	.7	.9	15	LER
		4	1525	53.89	19	17.71	155	20.34	7.56	1.7	1.5	24	2	126	.13	7	.5	1.6	16	SWR

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	APR	5	1815	.24	19	11.51	155	40.79	4.67	2.2	1.7	33	1	117	.23	9	1.0	2.7	21	LSW
		6	1113	47.13	19	25.86	155	38.71	3.43	2.5	2.7	25	1	201	.09	5	.7	1.5	16	MLO
		6	1514	25.05	19	20.75	155	1.92	5.21	1.9	1.2	16	1	174	.12	2	.8	1.5	10	SF5
		6	1758	10.38	19	19.31	155	13.62	7.58	1.9	1.9	39	3	68	.12	4	.4	.7	29	SF2
		6	1822	39.47	19	38.95	155	9.53	14.75	1.5	1.3	22	0	180	.07	19	.8	.6	15	KEA
		6	1912	25.07	19	23.91	155	16.04	2.48	1.6	2.0	19	3	106	.13	1	.4	.3	13	SEC
		6	23	4 24.97	19	24.87	155	25.57	7.64	1.5	1.1	29	4	49	.11	1	.3	.8	19	KAO
		7	311	9.96	19	20.93	155	3.22	7.15	2.1	2.0	33	2	105	.10	2	.6	.7	20	SF5
		7	333	22.17	19	17.35	155	21.21	8.87	1.4	1.1	27	3	130	.08	5	.4	.8	20	SWR
		7	550	54.94	19	23.55	155	3.30	6.14	1.3	1.1	31	2	104	.15	5	.5	1.3	20	SF5
		7	1017	12.51	19	20.61	155	3.61	5.60	1.6	1.2	26	2	95	.14	2	.6	1.0	20	SF5
		7	11	0 33.48	19	16.88	155	28.62	8.93	3.3	3.7	50	5	54	.15	4	.4	.6	44	LSW F
		7	1236	52.48	19	18.23	155	29.56	6.39		1.5	32	1	43	.18	6	.4	1.5	22	LSW
		7	1950	33.12	19	28.30	155	36.06	1.73	1.3	1.1	10	1	81	.10	2	.4	.3	6	MLO
		7	21	1 5.48	19	7.86	155	31.58	39.25	2.2	1.6	27	2	161	.11	14	.9	1.9	21	DLS
		8	1	7 42.02	19	21.34	155	2.79	7.75	2.4	2.5	31	3	126	.11	3	.5	.6	19	SF5
		8	624	24.09	19	20.16	155	10.77	7.09	1.5	1.5	34	2	84	.11	4	.5	.9	21	SF3
		8	1335	2.27	19	19.33	155	10.21	6.16	1.8	1.3	31	2	102	.11	5	.5	1.0	19	SF3
		8	1514	34.97	19	21.09	155	7.98	8.45	1.1	1.1	24	2	76	.09	4	.5	.8	19	SF4
		8	18	5 53.84	19	15.13	155	29.54	10.29	1.3	1.2	30	2	66	.14	1	.5	.7	18	LSW
		9	1629	21.29	19	22.11	155	1.34	5.39	1.5	1.1	22	3	169	.13	5	.7	1.5	18	SF5
		9	2045	42.77	19	21.35	155	1.93	7.86	2.2	2.3	36	6	155	.10	3	.5	.5	21	SF5
		9	2110	59.95	19	20.44	155	12.43	7.80	1.3	1.1	28	3	70	.09	4	.5	.7	17	SF2
		9	2314	3.66	19	13.49	155	29.69	6.77	1.8	1.7	34	3	75	.22	3	.5	1.1	17	LSW
		10	031	9.01	19	21.37	155	15.81	26.20	1.8	1.5	38	2	66	.09	2	.6	1.0	34	DEP
		10	113	29.23	19	26.43	155	38.21	3.29	2.6	2.8	21	2	196	.11	4	.7	.9	13	MLO
		10	944	19.67	19	21.06	155	4.23	2.71	2.1	1.8	10	1	96	.06	3	.4	.6	6	SSF
		10	1034	20.74	19	22.32	155	25.36	10.67	1.7	1.8	34	3	41	.11	4	.4	.6	24	KAO
		10	1324	30.10	19	35.25	155	41.51	7.77	1.4	1.2	21	1	101	.15	12	.6	2.5	11	KEA
		10	1359	6.63	19	21.66	155	1.56	7.53	2.5	2.3	36	3	158	.10	4	.5	.6	23	SF5
		10	1547	8.16	19	20.15	155	7.99	6.63	1.3	1.0	26	3	87	.09	5	.5	1.1	14	SF4
		11	145	25.71	19	22.44	155	28.09	6.63	2.6	2.6	42	4	43	.13	1	.3	.7	32	KAO
		11	716	56.53	19	20.47	155	11.44	8.13	1.6	1.2	32	3	77	.09	4	.5	.7	22	SF3
		11	734	7.87	19	53.29	155	57.39	43.11	1.8	1.9	31	3	220	.11	26	1.4	1.9	22	HUA
		11	1053	48.73	19	18.12	155	20.88	6.94	2.0	2.3	34	4	120	.12	4	.4	.8	21	SWR
		11	1214	39.75	19	19.45	155	15.52	5.98	1.0	1.3	29	2	97	.11	4	.4	1.0	20	SF1
		11	1548	4.87	19	26.43	155	38.33	2.84	2.5	2.7	19	3	200	.09	4	.6	.7	14	MLO
		11	1712	39.44	19	20.91	155	3.17	6.97	2.6	2.7	38	4	107	.11	2	.5	.6	26	SF5
		12	049	26.90	19	29.63	155	40.00	7.08	3.6	3.8	40	4	140	.12	7	.5	.7	32	MLO F
		12	514	15.44	19	21.75	155	24.92	9.11	1.5	1.1	26	2	44	.11	4	.4	.7	21	SWR
		12	7	1 48.12	19	19.48	155	6.91	7.71	1.7	1.5	31	5	123	.10	4	.5	.9	20	SF4
		12	7	4 50.84	19	20.09	155	6.82	8.63	2.7	2.7	41	2	110	.10	5	.4	.5	30	SF4
		12	7	8 10.79	19	19.88	155	7.18	7.83	2.1	2.1	36	1	108	.10	5	.5	.7	27	SF4
		12	835	22.93	19	21.21	155	27.79	9.18	1.9	1.3	15	0	125	.07	2	.6	1.5	9	KAO
		12	912	57.81	19	21.45	155	1.61	6.72	2.1	1.8	28	3	162	.10	4	.5	.6	19	SF5
		12	922	24.51	19	21.68	155	.96	8.83	2.3	2.5	36	2	169	.09	5	.7	.4	28	SF5
		12	1312	51.56	19	27.43	154	52.98	7.99	2.3	1.6	31	2	141	.13	3	.7	.5	19	LER
		12	1647	11.70	19	20.44	155	7.38	7.13	2.1	1.9	35	3	94	.13	5	.5	.9	23	SF4

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	APR	12	1838	59.92	19	18.74	155	15.06	6.83	1.7	1.5	33	1	95	.11	4	.5	.7	22	SF1
		13	233	56.15	19	18.77	155	29.50	9.10	2.3	2.5	35	2	52	.12	7	.4	.8	28	LSW
		13	326	5.78	19	23.50	155	24.08	8.27	2.3	2.6	39	3	33	.12	4	.4	.6	33	KAO
		13	638	31.59	19	20.67	155	2.75	4.33	1.3	1.1	19	1	144	.20	1	1.1	1.4	11	SSF
		13	1114	57.34	19	21.42	155	3.43	6.26	1.4	1.1	25	2	108	.13	3	.5	1.0	15	SF5
		13	1230	7.39	19	19.58	155	7.87	8.69	1.3	1.1	30	2	98	.08	4	.5	.7	19	SF4
		13	14 3	20.18	19	26.43	154	54.94	5.82	1.6	1.4	26	1	156	.10	2	.6	.8	18	LER
		14	350	58.69	19	20.52	155	11.83	8.61	1.7	1.8	32	2	74	.09	4	.4	.5	24	SF3
		14	517	25.90	19	25.83	155	29.86	8.30	1.6	1.1	25	2	64	.10	7	.4	1.1	18	KAO F
		14	1058	24.31	19	20.22	155	6.19	8.19	1.8	1.7	29	1	116	.08	5	.5	.9	22	SF4
		14	1142	22.99	19	19.68	155	11.96	6.65	2.4	2.5	42	1	88	.13	6	.5	.7	34	SF3
		14	12 9	43.57	19	20.37	155	13.10	7.53	1.6	1.5	26	2	65	.10	4	.5	.9	19	SF2
		14	1749	34.95	19	18.52	155	15.83	8.36	2.1	2.2	40	3	119	.12	4	.5	.5	26	SF1
		15	056	28.00	19	18.35	155	13.32	6.81	1.3	1.5	37	4	85	.10	2	.4	.8	29	SF2
		15	446	36.24	19	17.88	155	13.06	6.58	1.2	1.4	26	4	109	.08	2	.5	1.0	23	SF2
		15	614	50.51	19	19.21	155	11.18	6.60	1.3	1.0	28	2	104	.11	6	.6	1.2	23	SF3
		15	1337	2.28	19	20.00	155	7.33	7.77	2.0	1.8	36	2	102	.09	5	.4	.6	27	SF4
		15	14 3	44.85	19	17.90	155	12.36	7.61	1.2	.7	28	3	183	.12	3	.7	.9	17	SF2
		15	1451	14.46	19	20.09	155	11.85	9.23	3.1	2.9	38	2	81	.09	5	.4	.6	32	SF3 F
		15	2035	41.12	19	29.47	155	23.77	8.26	1.9	1.6	40	2	47	.13	1	.4	.7	31	KAO
		15	2339	25.36	19	21.85	155	25.11	9.31	1.7	1.4	39	5	43	.12	4	.4	.5	30	KAO
		16	428	28.69	19	32.17	155	35.94	14.79	1.4	1.0	21	3	90	.10	5	.7	.6	13	OML
		16	640	51.85	19	19.76	155	7.03	8.74	2.2	2.3	35	1	113	.07	5	.5	.5	28	SF4
		16	850	10.38	19	18.89	155	13.37	8.28	1.6	1.5	36	3	77	.12	3	.5	.6	23	SF2
		16	2327	56.36	19	25.49	155	25.83	10.48	1.6	1.5	34	3	40	.10	1	.4	.6	24	KAO
		16	2343	49.90	19	18.90	155	2.78	41.59	2.5	2.4	38	0	203	.09	2	1.3	2.0	30	DEP
		17	230	16.36	19	23.08	155	2.50	7.55	1.5	1.1	25	1	128	.15	6	.7	1.2	14	SF5
		17	6 9	35.25	19	10.24	155	22.11	37.08	2.0	1.6	38	2	176	.10	8	.8	1.4	27	DEP
		17	1236	59.72	19	21.01	155	8.10	7.87	1.4	1.7	32	2	75	.09	4	.4	.8	22	SF4
		18	425	29.25	19	20.06	155	8.33	7.49	1.8	2.1	41	4	81	.12	5	.4	.6	25	SF4
		18	844	41.75	19	19.58	155	9.07	5.80		1.3	20	0	85	.11	5	.6	1.4	18	SF4
		18	1525	9.76	19	20.84	155	2.11	5.89	2.0	2.1	26	2	164	.11	2	.6	.6	14	SF5
		18	20 6	59.24	19	20.40	155	12.94	7.10	1.5	1.3	31	2	67	.10	4	.5	.7	21	SF2
		19	140	37.74	19	20.11	155	3.89	6.48	1.8	1.7	26	0	133	.11	2	.7	.9	23	SF5
		19	1013	13.87	19	22.82	155	26.55	6.64	1.6	1.5	28	1	43	.11	2	.4	.8	22	KAO
		19	1046	23.40	19	4.10	155	8.89	20.39	1.7	1.4	24	0	268	.08	25	2.4	3.3	18	LOI
		19	1520	16.01	19	18.86	155	15.59	7.17	1.0	1.1	30	3	109	.11	4	.5	.8	18	SF1
		19	1633	50.77	19	26.11	155	28.23	8.36	1.8	1.1	33	3	62	.09	6	.3	.9	25	KAO
		20	050	59.60	19	22.12	155	25.47	8.55	1.7	1.1	30	2	43	.12	4	.4	.9	25	KAO
		20	731	19.91	19	26.51	155	30.26	9.61	2.0	1.4	29	2	68	.11	9	.4	1.1	18	KAO
		20	1235	29.76	19	15.33	155	22.00	8.48	1.9	1.5	25	2	184	.09	4	.6	1.0	19	SWR
		20	1641	26.57	19	6.56	155	28.69	30.33	1.8	1.5	30	0	240	.08	6	1.9	2.2	25	DLS
		20	2240	55.01	19	20.86	155	18.11	34.63	2.3	2.0	41	1	52	.10	2	.6	1.2	35	DEP
		20	2244	33.75	19	19.79	155	10.00	6.64	1.4	1.1	24	2	89	.11	4	.5	1.2	16	SF3
		21	629	52.40	19	21.03	155	2.29	6.60	2.4	2.3	33	3	152	.09	2	.5	.7	20	SF5
		21	12 3	6.32	19	20.42	155	6.85	4.84	1.9	1.5	25	0	102	.15	5	.6	1.9	18	SSF
		21	1519	44.94	19	20.21	155	13.00	6.69	1.6	1.5	31	3	68	.10	4	.5	.8	23	SF2
		21	2214	50.26	19	20.23	155	9.13	8.19	1.3	1.2	24	2	75	.08	4	.6	1.0	19	SF3

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	APR	21	2255	32.53	19	19.64	155	8.90	5.98	1.7		27	2	81	.10	5	.6	1.3	17	SF4
		22	631	28.98	19	27.07	155	14.84	31.91	2.6	2.6	39	0	84	.09	5	.7	1.3	39	DEP
		22	922	33.23	19	20.14	155	8.22	7.50	1.8	1.7	38	3	82	.09	5	.4	.6	26	SF4
		22	10 8	11.72	19	21.94	155	25.17	9.16	2.2	2.4	46	5	41	.13	4	.4	.5	35	KAO
		22	1514	13.65	19	20.47	155	12.85	7.35	1.3	1.1	26	3	67	.10	4	.5	.9	19	SF2
		22	2020	8.22	19	20.35	155	12.66	7.13	1.6	1.8	34	3	69	.10	4	.4	.6	26	SF2
		22	2043	41.88	19	19.99	155	8.23	9.21	3.0	3.3	43	2	84	.09	5	.4	.3	36	SF4
		22	2137	49.57	19	21.56	155	25.06	9.27	2.4	2.7	46	5	44	.14	4	.4	.5	34	KAO
		23	619	34.99	19	20.94	155	2.94	5.52	1.4	1.1	24	1	120	.11	2	.5	.9	16	SF5
		23	649	25.28	19	19.53	155	10.03	5.30	1.2	1.1	23	0	96	.10	5	.5	1.6	17	SF3
		23	715	31.71	19	20.35	155	8.42	7.49	2.0	1.9	36	0	77	.13	4	.5	.8	27	SF4
		23	814	50.44	19	24.24	155	26.30	9.37	1.7	1.3	32	3	49	.11	3	.4	.8	26	KAO
		23	1257	36.69	19	12.74	155	31.77	42.98	2.5		32	0	79	.12	5	.8	2.0	13	DLS
		24	0 4	26.02	19	19.43	155	8.60	7.37	1.8	1.7	30	1	80	.10	4	.5	.8	23	SF4
		24	1 9	17.77	19	21.08	155	11.61	8.68	2.9	3.2	48	5	67	.10	4	.3	.4	36	SF3
		24	224	31.47	19	26.48	155	22.58	6.83	1.6	1.7	22	3	76	.10	4	.4	1.1	17	KAO
		24	1157	31.76	19	32.75	155	28.51	12.73	1.4	1.3	27	3	88	.12	2	.4	.5	18	MLO
		24	2126	27.28	19	15.85	155	30.11	6.73	2.2	2.3	35	2	57	.20	1	.5	1.1	22	LSW
		24	2148	11.53	19	47.66	155	46.40	13.36	1.7	1.6	18	0	226	.07	14	1.4	.6	9	HUA
		25	145	7.94	19	20.48	155	3.69	5.48	1.7	1.1	26	2	105	.15	2	.6	1.0	19	SF5
		25	250	26.80	19	20.41	155	3.87	5.54	2.0	1.3	30	4	114	.14	2	.5	1.0	19	SF5
		25	8 9	7.16	19	20.41	155	8.35	5.51	1.4	1.1	13	0	78	.09	4	.6	1.6	13	SF4
		25	1142	59.45	19	25.60	155	28.22	9.75	2.5	2.5	44	4	33	.12	5	.4	.7	34	KAO
		25	1523	1.29	19	20.66	155	3.12	6.98	1.9	1.5	27	2	115	.17	1	.8	1.0	15	SF5
		25	1942	22.88	19	19.68	155	6.69	8.20	2.1	2.0	40	4	122	.10	5	.4	.5	26	SF4
		25	2058	54.00	19	20.82	155	3.44	7.13	1.9	1.7	30	3	100	.13	2	.6	.7	16	SF5
		25	22 2	51.59	19	21.31	155	3.14	7.49	2.9	3.2	42	3	111	.10	3	.5	.4	37	SF5 F
		26	336	42.01	19	19.99	155	6.82	7.19	1.3	1.3	30	0	112	.12	5	.5	1.1	25	SF4
		26	622	7.32	19	20.70	155	13.02	7.71	2.0	2.2	42	3	63	.13	4	.4	.6	32	SF2
		26	630	49.80	19	17.80	155	22.75	8.19	1.8		32	2	106	.19	5	.5	.8	19	SWR
		26	1431	29.76	19	20.09	155	7.18	7.15	2.1	1.8	36	4	104	.10	5	.4	.8	26	SF4
		26	1518	37.53	19	19.13	155	12.92	6.22	1.6	1.1	31	3	84	.11	4	.5	1.0	25	SF2
		26	2026	6.68	19	24.89	155	25.56	7.98	1.8	1.1	35	3	49	.12	1	.4	.8	28	KAO
		27	030	35.06	19	20.03	155	11.05	7.34	1.9	1.8	37	2	86	.12	4	.5	.7	27	SF3
		27	142	23.51	19	20.31	155	12.78	7.06	1.6	1.6	36	2	70	.11	4	.5	.7	25	SF2
		27	934	4.03	20	23.70	156	17.98	25.61	3.3	3.4	38	4	207	.13	42	.8	3.0	32	KOH
		27	1254	43.36	19	20.20	155	8.86	7.00	1.9	2.2	39	3	71	.10	4	.4	.7	27	SF4
		27	1510	22.29	19	23.32	155	26.64	7.86	1.7	1.1	29	3	45	.08	2	.3	.7	18	KAO
		27	2334	32.86	19	19.79	155	7.55	8.40	4.0	4.1	45	3	102	.09	5	.4	.3	38	SF4 F
		27	2339	54.31	19	19.96	155	8.34	7.35	1.3	1.3	30	4	82	.08	5	.5	.8	21	SF4
		27	2346	1.59	19	20.12	155	8.25	6.87	1.2	1.1	22	2	82	.11	5	.5	.9	13	SF4
		28	515	59.72	19	19.16	155	9.74	6.19	1.2	1.1	27	3	103	.10	5	.5	1.1	18	SF3
		28	1315	30.37	19	35.71	156	1.69	40.10	3.0	3.0	46	3	228	.09	17	1.0	1.4	42	KON
		28	1945	48.97	19	26.30	155	27.64	8.29	2.0	1.7	38	3	55	.12	5	.4	.8	23	KAO
		28	2250	27.60	19	20.40	155	7.07	8.11	2.1	2.1	36	1	99	.09	5	.5	.7	30	SF4
		29	559	59.63	19	19.70	155	18.60	4.02	1.4	1.1	23	3	63	.10	2	.4	.7	14	SWR
		29	619	32.38	19	21.28	155	2.51	6.01	1.6	1.5	28	2	137	.13	3	.6	.9	22	SF5
		29	1316	50.33	19	22.17	155	.51	.01	1.4	1.1	23	2	176	.24	6	.8	.7	13	SSF *

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	APR	29	1835	35.95	19	13.29	155	27.98	7.23	2.5	2.4	43	3	101	.19	5	.5	.9	30	LSW F
		29	2323	56.78	19	21.52	155	6.91	6.66	1.4	.9	34	3	81	.11	3	.5	.9	23	SF4
		30	356	59.64	19	21.92	155	5.06	6.63	1.1	.8	21	0	77	.14	3	.6	1.1	14	SF5
		30	18	4 47.60	19	20.60	155	8.89	7.88	2.0	2.0	40	1	135	.12	3	.5	.6	32	SF4
		30	1824	41.11	19	23.70	155	28.63	9.39	1.7	1.5	36	2	47	.10	3	.4	.7	28	KAO
		30	1919	6.00	19	20.32	155	7.13	7.81	1.6	1.7	33	3	100	.11	5	.4	.6	23	SF4
	MAY	1	737	44.87	19	19.36	155	15.27	7.30	1.4	.6	32	2	96	.10	4	.4	.7	23	SF1
		1	1852	23.24	19	20.90	155	1.99	6.20	2.1	1.8	23	1	166	.09	2	.5	.8	15	SF5
		1	2242	59.14	19	17.15	155	20.83	6.91	1.7	1.6	38	4	138	.12	4	.5	.8	26	SWR
		1	2253	14.45	19	19.82	155	10.69	7.95	1.6	1.3	31	4	91	.08	4	.5	.7	23	SF3
		2	026	10.56	19	17.86	155	21.64	8.35	1.7	1.3	36	5	117	.11	5	.4	.6	22	SWR
		2	1018	25.84	19	24.13	155	16.74	14.91	1.6	1.2	38	4	87	.09	1	.5	.3	26	DEP
		2	1335	7.18	19	17.56	155	23.43	5.52	1.8	1.6	26	4	97	.12	5	.4	1.6	18	SWR
		2	14	8 46.10	19	20.02	155	12.73	6.10	1.3	1.3	29	4	73	.11	5	.4	.8	20	SF2
		2	1719	37.92	19	55.66	155	40.02	22.95	3.0	3.1	48	4	124	.10	25	.6	2.5	42	KOH
		2	22	2 47.36	19	21.06	155	1.58	5.67	2.1	1.1	22	3	180	.13	3	.7	1.2	14	SF5
		3	318	6.29	19	19.83	155	17.89	35.32	2.2	1.9	46	2	78	.10	1	.6	1.1	38	DEP
		3	329	13.56	19	31.04	155	41.22	8.99	2.6	1.6	28	2	78	.10	10	.4	.9	19	MLO
		3	1017	48.01	19	28.91	155	39.25	4.33	2.4	1.6	26	4	92	.11	6	.4	1.3	16	MLO
		3	1029	12.61	19	29.80	155	39.65	6.02	2.3	1.6	24	3	148	.12	7	.7	1.5	11	MLO
		3	1752	19.27	19	20.73	155	12.91	6.64	1.6	1.3	31	3	63	.12	4	.5	.7	22	SF2
		3	1837	18.64	19	20.54	155	3.91	5.13	1.9	1.3	25	3	107	.12	2	.5	1.0	13	SF5
		3	2023	18.29	19	29.90	155	39.66	4.56	2.6	2.7	40	6	51	.15	7	.5	2.4	27	MLO
		4	749	4.30	19	22.29	155	1.43	8.24	2.3	2.6	38	2	150	.13	5	.6	.5	26	SF5
		4	824	30.70	19	19.10	155	14.04	7.28	2.5	2.5	35	1	91	.10	4	.4	.7	26	SF2
		4	1648	32.97	19	20.30	155	13.22	7.69	1.8	1.5	35	5	64	.11	4	.4	.6	24	SF2
		5	630	.51	19	28.84	155	39.69	4.12	2.6	1.2	11	0	120	.08	7	.7	3.3	8	MLO
		5	635	1.00	19	29.43	155	39.05	6.50	2.6	1.6	13	0	94	.13	5	.8	1.6	9	MLO
		5	8	4 47.20	19	29.21	155	39.51	5.98	1.5	1.9	26	5	94	.14	6	.6	1.2	18	MLO
		5	944	34.02	18	25.32	156	6.65	37.38	2.5	3.2	26	0	323	.24	106	39.9	4.7	5	DIS L*
		5	1628	50.17	19	16.65	155	13.29	5.91	1.2	1.1	28	3	162	.10	1	.6	.8	17	SF2
		5	1638	30.75	19	16.21	155	13.24	6.93	1.4	1.5	30	3	191	.11	2	.7	.9	17	SF2
		5	17	8 4.86	19	16.95	155	13.22	5.97	1.2	1.1	27	2	171	.11	0	.5	.8	19	SF2
		5	1716	1.17	19	16.80	155	13.43	5.49	1.1	1.1	26	2	174	.11	0	.6	.9	18	SF2
		5	1826	26.69	19	19.73	155	9.46	8.05	1.5	1.2	29	5	86	.07	4	.5	.8	21	SF3
		5	2128	55.92	19	20.19	155	10.59	8.25	2.1	2.1	42	3	83	.10	4	.4	.5	32	SF3
		5	2245	26.50	19	24.20	155	29.78	12.06	2.8	2.8	47	5	32	.11	5	.4	.4	36	KAO
		5	2332	24.34	19	6.93	155	23.64	42.26		2.0	44	1	187	.09	9	.8	1.6	36	LOI
		5	2337	33.02	19	25.62	155	38.69	2.69	1.3	1.2	11	1	198	.06	5	1.0	1.5	8	MLO
		6	116	52.18	19	11.68	155	19.97	46.27	1.9	1.6	34	0	173	.09	9	.9	1.8	26	DEP
		6	244	7.34	19	18.03	155	52.50	12.29	1.8	1.4	16	1	237	.15	4	1.8	.5	12	KON
		6	1631	54.47	19	18.15	155	13.21	7.32	1.7	1.5	31	3	94	.10	2	.5	.8	23	SF2
		6	1922	19.90	19	21.17	155	11.31	8.37	2.1	1.9	41	4	67	.12	3	.4	.6	31	SF3
		6	20	4 12.26	19	22.51	155	30.17	8.61	2.1	1.5	37	2	42	.10	4	.4	.8	29	KAO
		6	20	9 58.39	19	20.71	155	2.85	7.48	2.1	1.5	34	3	136	.12	1	.6	.6	18	SF5
		6	2015	27.46	19	18.45	155	14.89	6.87	1.3	1.1	28	2	109	.12	4	.5	1.0	21	SF1
		6	2122	47.49	19	18.58	155	15.13	6.57	.9	1.1	23	2	110	.08	4	.4	1.0	16	SF1
		7	847	10.39	19	18.08	155	29.28	9.02	3.0	3.3	45	3	45	.13	6	.4	.6	41	LSW

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	MAY	8	633	5.61	19	18.86	155	11.52	3.87	1.7	1.4	26	3	112	.11	5	.4	1.6	15	SSF
		8	954	29.09	19	20.54	155	12.59	7.44	1.6	2.0	36	4	68	.11	4	.5	.6	24	SF2
		8	1617	56.38	19	24.23	155	24.97	8.43	1.9	1.8	38	4	46	.11	2	.3	.7	31	KAO
		9	018	48.33	19	9.98	155	36.09	8.46	2.6	2.6	35	2	106	.20	9	.6	1.0	24	LSW
		9	337	45.85	19	19.92	155	6.76	7.56	2.2	2.4	37	2	114	.10	5	.4	.7	27	SF4
		9	616	52.33	20	39.15	155	55.25	31.30	3.0	3.3	30	3	207	.09	37	1.0	1.2	21	DIS F
		9	741	19.06	19	28.12	155	28.64	8.58	2.0	1.5	26	2	87	.12	7	.5	1.1	20	KAO
		9	1118	55.95	19	21.64	155	1.00	2.15		1.2	25	2	169	.14	5	.6	1.1	14	SSF
		9	14	6 1.19	19	20.43	155	2.58	7.53	2.2	2.1	29	2	165	.11	1	.6	.4	20	SF5
		10	251	44.22	19	20.27	155	13.77	6.26		1.2	20	0	70	.12	5	.6	1.0	19	SF2
		10	1118	1.13	19	20.87	155	2.99	7.16	2.4	2.6	28	0	125	.11	2	.6	.5	25	SF5
		10	1457	12.03	19	41.81	155	2.17	.13	3.1		28	0	109	.20	1	1.4	1.6	22	HIL *
		10	1457	58.99	19	19.21	155	14.24	7.36	2.4	2.6	44	4	72	.12	4	.5	.6	32	SF2
		10	1513	58.13	19	20.15	155	10.00	7.17	1.4	1.3	27	3	82	.10	4	.5	1.0	18	SF3
		10	17	0 45.80	19	20.95	155	12.74	8.79	2.4	2.7	45	4	62	.12	3	.4	.5	33	SF2
		10	1724	55.71	19	20.50	155	12.78	7.25	1.6	1.6	30	3	67	.10	4	.5	.7	19	SF2
		10	2310	48.65	19	19.66	155	10.02	8.36	2.3	2.5	40	3	93	.09	4	.4	.6	34	SF3
		11	210	5.59	19	19.98	155	13.32	5.30	1.0	1.1	30	1	66	.14	5	.5	1.4	23	SF2
		11	422	49.03	19	22.42	155	27.86	7.72	2.8	3.1	44	3	44	.12	0	.3	.7	38	KAO
		11	753	25.00	19	19.63	155	7.59	7.15	1.8	1.3	29	3	103	.09	4	.5	1.0	17	SF4
		11	817	7.06	19	19.74	155	7.37	7.12	1.3	1.1	24	2	107	.08	5	.5	1.1	18	SF4
		11	1122	54.35	19	26.31	154	53.96	7.10	2.0	1.2	29	3	166	.11	3	.6	.7	23	LER
		11	14	8 58.46	19	20.10	155	7.39	8.85	2.8	2.9	43	3	100	.10	5	.5	.4	37	SF4
		12	159	56.00	19	21.15	155	2.27	4.58	1.5	1.1	28	2	148	.16	3	.6	1.4	19	SSF
		12	233	33.98	19	21.27	155	3.68	5.82	2.0	1.7	34	1	90	.13	3	.5	.9	28	SF5
		12	629	9.57	19	46.06	155	34.48	17.53	2.5	2.6	43	3	205	.08	12	.9	2.0	35	KEA
		12	18	2 34.82	19	24.48	156	22.80	30.18	2.2	2.9	14	0	314	.09	49	11.8	3.8	14	DIS
		12	1952	27.24	19	20.18	155	7.97	7.95	1.4	1.4	37	4	86	.09	5	.5	.7	28	SF4
		12	1953	18.24	19	20.37	155	7.80	7.73	1.8	1.7	37	3	88	.10	5	.5	.7	29	SF4
		12	2152	28.07	19	24.93	155	15.65	38.74	1.4	1.9	27	0	91	.08	2	1.0	2.5	18	DEP L
		12	22	9 42.56	19	21.60	155	.85	4.61	2.2	2.6	37	1	173	.11	5	.6	1.4	21	SSF F
		13	025	50.89	19	24.70	155	15.70	39.22	2.2	1.5	33	2	89	.08	2	1.0	1.3	18	DEP L
		13	030	7.96	19	10.24	155	34.95	9.40	4.4	4.1	48	4	107	.20	9	.6	.8	43	LSW F
		13	1259	17.04	19	21.63	155	3.45	8.84	2.4	2.7	37	4	109	.09	3	.6	.4	27	SF5
		13	1444	33.22	19	19.94	155	12.75	7.12	1.8	1.3	29	2	74	.10	5	.5	.9	23	SF2
		14	418	18.17	19	21.67	155	2.18	8.14	3.3	3.7	44	4	142	.10	4	.6	.4	37	SF5
		14	5	1 9.20	19	26.06	155	24.82	7.39	1.8	1.1	29	5	48	.10	2	.3	.8	24	KAO
		14	627	36.30	19	19.58	155	8.78	6.79	1.6	1.3	35	5	81	.09	4	.4	.7	21	SF4
		14	1258	57.02	18	58.43	155	28.91	38.07	2.3	1.8	33	0	225	.07	19	1.5	2.1	29	DLS
		14	1938	38.41	19	19.68	155	8.98	6.17	1.7	1.6	35	3	81	.12	5	.5	.9	22	SF4
		15	4	6 38.89	19	24.59	155	29.83	7.85	2.4	2.2	39	3	53	.11	5	.3	.8	28	KAO
		15	417	14.96	19	21.45	155	1.86	6.97	1.6	1.3	27	2	163	.13	3	.6	.8	17	SF5
		15	6	1 1.47	19	23.17	155	2.25	7.43	2.0	1.8	35	2	125	.13	5	.5	.6	23	SF5
		15	1149	12.78	19	20.95	155	13.35	8.47	2.5	2.5	47	4	57	.13	3	.4	.5	39	SF2
		15	1151	48.08	19	20.48	155	13.36	7.74	1.9	1.9	41	2	118	.13	4	.5	.6	29	SF2
		15	1215	11.58	19	19.46	155	11.64	6.96	1.8	1.2	33	2	95	.10	6	.5	.9	28	SF3
		15	1217	56.15	19	19.50	155	11.79	6.73	1.5	1.3	32	3	93	.10	5	.5	.9	26	SF3
		15	1219	46.13	19	17.45	155	12.93	7.65	2.0	2.2	36	3	140	.11	1	.5	.6	25	SF2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	MAY	15	1343	30.94	19	20.77	155	11.98	8.31	2.8	3.0	46	3	70	.14	4	.4	.6	42	SF3	
		15	1714	14.15	19	17.63	155	13.07	7.89	1.8	2.2	37	4	119	.11	1	.6	.7	25	SF2	
		15	21 4	24.43	19	21.76	155	5.01	8.17	2.5	2.7	44	4	80	.09	3	.4	.5	29	SF5	
		16	218	49.06	19	19.74	155	8.95	6.66	1.1	1.2	29	4	80	.12	5	.5	1.0	22	SF4	
		16	258	1.63	19	18.44	155	13.11	4.12	1.3	1.1	31	3	92	.13	3	.5	1.0	18	SSF	
		16	743	17.75	19	19.40	155	11.49	8.76	1.6	1.5	32	2	98	.12	6	.5	.8	25	SF3	
		16	1051	31.37	19	18.78	155	30.51	3.97	2.0	1.3	32	2	65	.15	7	.4	2.7	23	LSW	
		16	1548	56.82	19	23.43	155	25.96	9.34	2.1	1.8	41	4	39	.13	3	.4	.6	33	KAO	
		16	1920	59.27	19	6.56	155	23.52	44.01	2.3	1.6	38	1	189	.08	9	.9	2.0	28	LOI	
		17	134	56.89	19	17.68	155	53.03	42.50	1.9	1.5	29	1	279	.07	24	1.9	1.9	24	KON	
		17	411	53.83	19	19.39	155	9.94	6.23	1.2	1.1	26	2	98	.09	5	.5	1.2	15	SF3	
		17	427	10.08	19	24.06	155	26.05	7.70	1.6	1.1	31	4	47	.10	3	.4	.8	26	KAO	
		17	730	49.21	19	21.60	155	30.17	8.69	2.0	1.3	31	2	46	.10	5	.4	.8	20	KAO	
		17	731	46.25	19	18.50	155	15.16	5.77	.8	1.1	26	4	112	.10	4	.4	1.1	19	SF1	
		17	751	36.00	19	21.52	155	30.06	9.30	2.9	3.1	41	3	45	.13	5	.4	.6	34	KAO	
		17	1614	2.15	19	20.96	155	30.06	8.23	1.7	1.3	29	1	47	.13	5	.5	1.2	22	KAO	
		17	1623	29.57	19	20.82	155	30.20	9.38	2.2	2.2	31	1	49	.07	6	.4	.9	28	KAO	
		17	1643	26.16	19	22.06	155	25.14	9.38	1.4	1.2	28	4	53	.11	4	.4	.7	23	KAO	
		17	2012	6.97	19	29.29	155	39.40	6.26	2.9	3.2	34	2	211	.12	6	.9	1.1	25	MLO	
		17	2154	25.43	19	20.12	155	12.63	7.34	1.4	1.5	23	1	73	.08	5	.5	.9	18	SF2	
		18	346	54.66	19	10.24	155	32.49	31.46	2.0	1.7	34	3	113	.09	8	.7	1.5	30	DLS	
		18	526	16.29	19	29.99	155	39.98	5.87	2.1	1.6	19	3	237	.10	7	1.1	1.7	16	MLO	
		18	549	13.34	19	43.88	155	43.77	40.88	3.2	3.3	43	3	237	.08	25	1.1	1.5	37	HUA	
		18	1321	19.20	19	20.11	155	12.21	6.89	1.3	1.1	31	3	78	.10	5	.5	.9	21	SF3	
		18	1650	30.19	19	36.31	155	41.86	1.62	2.4	2.1	27	1	88	.13	13	.5	3.1	14	KEA	
		18	2031	24.72	19	25.10	155	25.27	8.21	2.1	1.5	36	4	49	.11	0	.4	.7	25	KAO	
		18	2057	53.60	19	22.96	155	24.49	9.30	2.0	1.8	36	3	38	.11	4	.4	.6	30	KAO	
		18	21 6	19.13	18	57.83	155	16.91	11.72	2.8	2.8	35	0	234	.17	29	1.8	.7	11	LOI	
		19	429	9.37	19	20.04	155	6.56	7.81	2.4	2.4	40	2	115	.11	6	.5	.5	31	SF4	
		19	715	25.46	19	20.64	155	10.90	8.36	2.7	2.4	41	4	75	.09	3	.3	.5	32	SF3	
		19	717	55.05	19	20.42	155	11.00	7.30	1.2	1.1	28	1	79	.08	4	.5	.9	17	SF3	
		19	1049	9.06	19	20.80	155	13.00	7.74	2.3	2.5	43	3	62	.13	3	.4	.5	37	SF2	
		19	1052	20.63	19	19.73	155	14.45	8.14	2.1	1.8	41	2	121	.11	5	.5	.6	36	SF2	
		19	1146	37.28	19	33.96	155	41.62	1.64	3.3	3.1	38	4	82	.14	10	.5	1.1	27	MLO	
		19	1155	36.24	19	20.45	155	13.14	7.73	1.8	1.6	31	1	64	.11	4	.5	.7	24	SF2	
		19	1534	22.36	19	19.60	155	26.50	7.71	1.4	1.2	29	2	61	.15	6	.4	1.1	23	KAO	
		19	17 6	57.41	19	35.67	155	41.74	1.14	2.4	2.3	22	2	141	.10	12	.7	1.0	17	KEA	
		19	2313	12.18	19	19.71	155	7.40	7.09	2.0	1.8	36	2	106	.09	4	.5	.7	27	SF4	
		20	259	49.34	19	35.54	155	41.65	7.88		1.9	17	0	104	.12	12	.6	2.9	14	KEA	
		20	535	17.85	19	19.80	155	8.85	6.17	1.5	1.5	33	1	77	.10	5	.5	1.1	22	SF4	
		20	6 7	52.21	19	18.92	155	15.47	8.52	1.6	2.3	36	1	130	.12	4	.5	.7	23	SF1	
		20	7 6	18.76	19	17.33	155	22.43	6.90	1.8	2.3	34	2	116	.13	6	.4	.8	16	SWR	
		20	11 2	29.61	19	20.98	155	2.93	6.39	2.0	1.8	35	4	122	.14	2	.5	.7	20	SF5	
		20	1213	19.16	19	19.99	155	7.35	7.49	1.4	1.3	33	4	102	.09	5	.5	.8	21	SF4	
		20	1342	11.42	19	19.62	155	15.57	7.62	1.2	1.3	31	2	95	.10	3	.4	.7	18	SF1	
		20	1355	54.25	19	19.07	155	13.24	7.99	2.0	2.1	41	2	78	.12	4	.4	.6	32	SF2	
		20	20 1	46.40	19	11.60	155	37.58	7.99	2.9	2.9	45	4	98	.22	6	.6	.9	34	LSW	
		21	243	4.76	19	35.45	155	41.94	.01	3.1	3.1	36	3	89	.13	11	.4	.6	23	KEA	*

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	MAY	21	3 0	45.21	19	35.47	155	41.73	2.22	2.3	1.9	27	1	102	.11	12	.5	1.9	14	KEA	
		21	337	51.73	19	35.35	155	41.88	.77	2.8	2.9	36	2	88	.12	11	.4	.8	27	KEA	
		21	5 5	59.75	19	34.48	155	41.58	.83	2.5	2.6	35	3	83	.13	10	.4	.7	22	MLO	
		21	1057	53.85	19	21.52	155	25.84	8.99	1.4	1.1	29	4	57	.11	4	.4	.7	24	KAO	
		21	1923	27.71	19	19.96	155	7.49	7.07	1.4	1.1	29	2	100	.08	5	.5	1.0	17	SF4	
		21	2149	58.06	19	22.04	155	25.28	9.69	2.2	2.3	45	5	43	.14	4	.4	.5	38	KAO	
		22	949	49.69	19	29.85	155	39.28	6.09	1.9	1.6	26	5	75	.12	6	.4	1.1	16	MLO	
		22	1217	4.62	19	26.23	155	28.82	5.39	2.0	1.1	33	2	59	.11	7	.4	2.0	21	KAO	
		22	20 4	23.39	19	24.46	155	27.18	9.00	1.5	1.1	31	3	44	.12	4	.4	.8	23	KAO	
		23	040	48.35	19	28.62	155	39.09	5.73	1.2	1.3	21	4	69	.10	6	.4	1.0	13	MLO	
		23	115	13.29	19	17.55	155	21.86	8.29	1.6	1.7	36	5	120	.11	6	.3	.5	24	SWR	
		23	156	33.29	19	19.90	155	5.98	6.08	1.1	1.3	16	0	128	.09	5	.6	1.6	8	SF4	
		23	1812	2.53	19	19.77	155	7.53	7.38	1.6	1.3	35	3	102	.11	5	.5	.8	21	SF4	
		23	1818	15.98	19	21.11	155	7.43	8.66	1.3	1.3	26	2	83	.10	4	.5	.8	23	SF4	
		23	1837	55.85	19	25.30	155	26.95	10.91	1.9	2.0	37	2	52	.08	3	.4	.6	31	KAO	
		24	141	29.52	19	21.12	155	3.19	6.63	2.0	1.5	36	4	108	.17	2	.6	.8	20	SF5	
		24	3 1	31.28	19	19.43	155	16.42	8.03	2.0	2.1	41	3	105	.13	2	.4	.6	30	SF1	
		24	449	8.82	19	20.60	155	7.38	7.78	1.9	1.7	28	0	91	.14	5	.5	.8	20	SF4	
		24	749	17.85	19	19.49	155	8.67	9.52	3.1	3.3	44	2	77	.11	4	.5	.4	36	SF4	
		24	1637	9.38	19	20.96	155	1.97	7.11	1.6	1.5	27	3	165	.10	3	.5	.5	17	SF5	
		24	22 1	12.93	19	16.79	155	28.84	8.15	1.4	1.3	36	2	54	.18	4	.5	1.2	26	LSW	
		25	3 3	53.90	19	21.05	155	13.31	7.04	1.8	1.9	47	5	57	.14	3	.4	.6	36	SF2	
		25	11 7	20.31	19	12.91	155	15.39	46.42	2.5	2.7	38	2	180	.10	8	1.0	1.5	15	DEP	L
		25	1322	24.56	19	20.94	155	6.52	6.46	1.8	1.3	33	2	95	.14	4	.5	1.0	19	SF4	
		25	2042	38.85	19	16.89	155	3.28	46.61	2.5	2.3	46	1	196	.13	6	1.0	1.7	40	DEP	
		25	21 7	48.93	19	21.11	155	25.15	8.96	2.1	2.2	45	7	55	.13	4	.4	.5	33	KAO	
		25	23 6	9.30	19	21.29	155	4.59	8.21	2.3	2.4	39	2	88	.11	4	.5	.5	28	SF5	
		25	23 9	37.05	19	20.56	155	2.45	6.60	3.1	3.1	42	3	159	.12	1	.6	.5	34	SF5	
		26	051	54.43	19	20.09	155	6.77	7.81	1.9	1.3	30	2	111	.09	5	.4	.9	17	SF4	
		26	913	5.24	20	10.08	155	6.31	10.08		2.4	11	0	269	.09	40	5.6	3.7	5	KEA	
		27	245	36.98	19	49.20	155	21.29	16.79	3.0	2.3	43	3	115	.13	8	.8	2.2	37	KEA	
		27	613	8.91	19	20.62	155	8.36	5.20	1.5	1.4	20	3	76	.06	4	.5	1.3	13	SF4	
		27	1728	9.70	19	20.46	155	12.46	8.66	2.2	2.5	45	3	70	.14	4	.4	.5	36	SF2	
		27	1847	56.45	19	21.33	155	1.13	7.60	2.9	3.3	43	4	174	.10	4	.6	.4	30	SF5	
		27	1919	46.88	19	11.44	155	29.08	33.23	2.4	1.5	40	1	75	.08	4	.6	1.5	34	DLS	
		27	2040	45.32	19	38.23	156	28.52	24.89	2.3	2.7	16	0	283	.12	61	5.0	8.0	10	DIS	
		27	22 9	13.26	19	12.47	155	32.47	8.17	1.4	1.5	30	2	84	.15	6	.5	.8	22	LSW	
		28	0 3	40.93	19	12.07	155	31.67	6.19	1.4	2.2	26	1	89	.16	6	.6	1.9	13	LSW	
		28	012	33.72	19	46.01	156	2.84	40.10	3.0	3.3	49	4	189	.11	24	.8	1.3	41	HUA	
		28	542	10.30	19	20.41	155	12.65	7.32	1.5	1.4	30	2	69	.10	4	.5	.9	22	SF2	
		28	548	11.94	19	21.15	155	6.02	4.80	1.9	1.3	26	0	93	.12	6	.5	3.0	18	SSF	
		28	1234	18.91	19	35.93	155	43.31	1.02	2.4	2.4	15	1	115	.12	11	.6	1.5	10	KON	
		28	17 7	4.77	19	23.57	155	26.14	8.18	1.7	1.3	36	2	46	.11	3	.4	.8	29	KAO	
		28	1717	13.65	19	30.24	155	54.87	11.03	2.7	2.0	20	2	189	.13	2	1.1	.5	14	KON	
		28	1755	56.64	19	20.91	155	12.45	8.77	1.6	1.6	31	3	83	.09	3	.5	.6	27	SF2	
		28	1929	18.64	19	11.39	155	29.09	33.59	2.0	1.4	35	1	79	.08	4	.7	1.6	30	DLS	
		28	21 5	14.91	19	21.20	155	2.30	6.30	2.1	2.3	32	2	147	.15	3	.5	.7	24	SF5	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	MAY	29	434	23.30	19	19.45	155	9.81	6.47	1.4	1.1	31	2	96	.11	5	.5	.9	26	SF3	
		29	14 9	32.74	19	11.35	155	28.94	34.00	2.4	1.7	36	0	77	.08	4	.7	1.7	31	DLS	
		29	1432	7.88	19	20.79	155	12.71	8.92	1.5	1.4	35	3	64	.09	3	.5	.6	22	SF2	
		29	1710	39.46	19	31.47	155	42.67	6.01	1.1	1.2	27	4	78	.13	6	.5	1.7	20	MLO	
		30	310	9.30	19	19.66	154	47.52	47.78	1.9	1.6	36	0	277	.12	16	4.3	4.4	31	LER	
		30	1045	32.94	19	19.48	155	10.38	6.55	1.7	1.5	36	4	98	.12	5	.5	.8	30	SF3	
		30	1232	31.78	19	22.00	155	2.95	7.81	1.8	1.3	30	5	116	.13	4	.5	.6	20	SF5	
		30	2030	55.46	19	22.05	155	2.17	8.72	2.8	3.1	46	5	137	.09	4	.5	.4	36	SF5	
		30	2145	58.49	19	25.35	155	28.61	7.99	2.0	1.5	34	3	50	.11	6	.4	.9	27	KAO	
		30	2329	38.08	19	21.81	155	1.81	2.61	1.4	1.3	23	2	158	.12	4	.5	1.0	16	SSF	
		31	211	44.32	19	19.53	155	8.03	8.35	2.0	2.1	37	2	93	.08	4	.4	.5	25	SF4	
		31	359	3.40	19	20.56	155	31.37	23.74	3.4	3.6	51	5	34	.09	7	.5	.9	46	DML	F
		31	1053	30.37	19	20.67	155	10.58	8.02	1.5	1.1	30	3	74	.08	3	.4	.6	25	SF3	
		31	1154	30.06	19	20.88	155	2.37	7.33	2.1	1.5	31	3	152	.12	2	.6	.6	17	SF5	
		31	12 4	15.65	19	20.90	155	10.49	6.93	1.6	1.6	33	3	71	.11	2	.5	.8	27	SF3	
		31	2040	5.58	19	26.89	155	29.50	7.86	1.9	1.7	38	3	55	.13	8	.4	1.1	27	KAO	
	JUN	1	1 9	31.85	19	20.76	155	2.90	6.67	1.5	1.1	26	1	125	.13	2	.6	1.0	14	SF5	
		1	430	53.74	19	24.41	155	27.99	9.81	1.4	1.2	22	2	63	.08	4	.4	.8	17	KAO	
		1	915	46.51	19	15.02	155	34.60	7.10	1.9	1.2	31	2	105	.18	4	.6	1.2	23	LSW	
		1	942	21.61	19	20.33	155	6.06	7.65	1.3	1.3	18	1	115	.11	5	.6	1.2	12	SF4	
		1	13 6	16.47	19	22.06	155	25.49	8.85	1.8	1.3	22	3	106	.08	4	.5	.8	19	KAO	
		1	1329	6.25	19	20.23	155	11.82	7.57	1.4	1.1	28	2	78	.09	5	.5	.8	21	SF3	
		1	15 1	12.94	19	19.91	155	4.97	4.44	1.3	1.3	19	1	139	.12	4	.6	1.7	13	SSF	
		1	1543	47.12	19	18.57	155	14.87	6.02	1.1	1.1	23	1	105	.09	4	.5	1.1	22	SF1	
		1	1740	46.68	19	20.89	155	13.02	8.24	2.1	2.2	40	4	61	.11	3	.4	.5	35	SF2	
		1	1853	32.45	19	11.53	155	29.06	33.33	2.2	2.0	42	2	77	.07	4	.7	1.2	40	DLS	
		1	2049	11.92	19	19.58	155	11.72	5.18	1.1	1.3	28	1	91	.13	6	.5	1.7	19	SF3	
		2	141	43.99	19	18.53	155	13.91	5.83	1.2	1.1	30	1	94	.11	3	.5	1.1	26	SF2	
		2	239	40.88	19	26.52	155	29.21	8.02	1.8	1.3	33	2	59	.12	8	.4	1.1	25	KAO	
		2	759	14.42	19	21.69	155	25.36	9.44	1.7	1.3	33	3	54	.12	4	.4	.7	25	KAO	
		2	1028	54.42	19	21.44	155	2.63	6.56	1.4	1.2	28	1	131	.13	3	.6	1.0	19	SF5	
		2	1151	13.80	19	22.35	155	30.11	8.70	2.0	1.3	33	2	46	.12	4	.4	.9	21	KAO	
		2	1632	48.07	19	21.64	155	24.97	9.00	1.7	1.3	31	3	41	.11	4	.4	.7	22	SWR	
		3	8 2	10.23	18	57.04	155	29.67	37.06	2.0	2.0	29	1	244	.07	18	2.4	2.4	27	DLS	
		3	1139	22.20	19	20.63	155	13.47	8.57	2.0	2.2	40	2	59	.10	4	.4	.5	32	SF2	
		3	1746	1.08	19	19.65	155	4.97	4.92	1.1	1.1	16	1	149	.23	4	1.2	3.6	12	SSF	
		3	1947	38.39	19	21.39	155	3.65	2.54		1.1	11	1	104	.07	3	.4	.7	10	SSF	
		3	2247	38.34	19	19.84	155	15.70	8.56	3.3	3.5	44	2	87	.12	3	.4	.6	41	SF1	F
		3	23 8	19.46	19	19.93	155	11.30	7.96	1.3	1.1	27	1	87	.10	5	.5	.9	19	SF3	
		4	746	7.89	19	13.77	155	20.41	31.55	2.4	2.4	20	1	178	.07	8	1.1	1.5	19	DEP	
		4	1133	10.38	19	20.43	155	13.04	7.35	1.2	1.1	31	2	65	.10	4	.5	.7	20	SF2	
		4	2355	52.17	19	29.61	154	57.74	43.94	3.5	3.7	36	0	102	.11	6	1.6	2.8	33	LER	
		5	8 0	10.90	19	14.23	155	51.60	16.84	2.9	2.9	31	1	204	.17	29	2.5	60.0	30	KON	*
		5	1217	50.44	20	1.70	155	44.96	12.48	2.8	2.8	35	2	148	.13	12	.9	.9	29	KOH	
		5	1631	49.91	19	19.69	155	8.01	6.27	1.7	1.4	40	4	91	.11	4	.4	.7	27	SF4	
		5	1731	21.36	19	27.46	155	26.57	8.79	1.8	1.3	32	2	63	.10	5	.4	.8	22	KAO	
		5	1854	31.04	19	9.17	155	32.44	33.11	4.1	4.4	49	3	130	.08	8	.6	1.2	46	DLS	F
		5	19 7	26.70	19	27.20	155	25.02	8.31	1.7	1.2	26	2	52	.10	4	.4	.9	15	KAO	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JUN	5	2042	43.11	19	9.30	155	32.27	33.35	2.5	1.6	36	2	128	.07	8	.7	1.4	33	DLS	
		5	2318	34.88	19	23.69	155	1.27	8.39	1.9	1.3	31	2	144	.14	5	.7	.6	23	SF5	
		6	343	1.49	19	11.45	155	29.03	33.93	2.1	1.4	33	1	81	.07	4	.7	1.5	30	DLS	
		6	350	22.37	19	20.64	155	13.25	8.26	2.0	2.0	39	3	61	.10	4	.4	.6	27	SF2	
		6	629	9.17	19	19.93	155	6.50	8.15	2.2	2.3	38	3	119	.10	5	.5	.6	28	SF4	
		6	940	54.76	19	25.57	155	36.61	2.54	2.5	2.4	16	2	100	.12	3	.6	.9	12	MLO	
		6	20 8	9.89	19	26.22	155	38.32	2.82	2.3	2.7	19	1	197	.11	4	.7	1.0	15	MLO	
		7	221	19.90	18	57.57	155	13.65	39.31	2.0	1.7	35	0	241	.09	33	2.1	2.6	28	LOI	
		7	346	37.79	19	25.61	155	37.84	2.71	3.0	3.2	34	3	97	.12	4	.4	.8	26	MLO	
		7	430	13.31	19	19.72	155	12.29	4.98	1.5	1.4	35	4	83	.13	5	.4	1.3	23	SSF	
		7	838	45.16	19	19.81	155	3.83	6.14	1.3	1.1	16	3	156	.07	2	.6	1.1	12	SF5	
		7	857	.13	19	20.70	155	7.03	7.02	2.0	1.7	34	0	94	.11	4	.5	.9	25	SF4	
		7	11 6	22.26	19	22.83	155	18.70	29.33	2.2	2.2	27	1	35	.09	5	.6	1.5	14	DEP	
		7	12 1	40.84	19	30.38	155	52.82	10.79	2.8	3.3	33	2	125	.13	4	.7	.4	27	KON	F
		7	1426	42.05	19	25.18	155	24.97	8.76	1.4	1.1	25	2	43	.11	0	.4	.9	18	KAO	
		7	1512	27.44	19	19.83	155	7.53	8.61	1.4	1.7	30	4	102	.09	5	.5	.7	22	SF4	
		7	1759	17.10	19	25.46	155	24.64	10.80	1.1	.9	17	0	78	.08	8	.6	1.6	15	KAO	
		7	19 8	9.01	19	19.53	155	7.64	7.85	2.1	2.4	37	2	104	.10	4	.4	.7	31	SF4	
		8	939	38.99	19	17.22	155	25.12	6.64	.9	1.5	20	2	86	.12	6	.4	1.2	16	LSW	
		8	12 3	6.28	19	20.04	155	8.10	9.34	2.9	3.2	49	6	86	.09	5	.4	.4	37	SF4	
		9	017	33.89	19	22.90	155	2.72	8.43	1.7	1.2	32	1	117	.13	4	.5	.6	20	SF5	
		9	140	15.57	19	18.69	155	14.65	6.89	1.1	1.1	28	2	115	.10	4	.5	.8	24	SF1	
		9	528	.73	19	20.68	155	2.76	6.97	2.4	2.5	39	3	135	.14	1	.5	.5	22	SF5	
		9	551	9.74	19	19.57	155	6.44	8.03	2.1	2.0	36	1	129	.11	5	.6	.6	29	SF4	
		9	1110	4.92	19	9.66	155	32.20	31.73	1.8	1.4	24	2	124	.10	8	.8	1.8	21	DLS	
		9	1322	57.16	19	20.09	155	7.44	7.10	1.5	1.7	31	0	99	.10	5	.5	.9	24	SF4	
		9	22 8	3.47	19	21.57	155	4.60	7.58	1.9	1.5	34	1	81	.14	4	.4	.6	20	SF5	
		9	23 1	14.27	19	13.78	155	33.22	6.50	1.8	1.5	37	1	74	.22	6	.7	1.5	26	LSW	
		10	8 2	33.57	19	12.63	155	42.70	4.46	1.7	1.7	32	2	122	.23	11	.9	2.7	26	LSW	
		10	924	40.52	19	19.04	155	15.63	7.21	1.7	1.1	25	2	106	.11	4	.5	.9	21	SF1	
		10	1458	52.25	19	22.02	155	17.92	3.14	1.7	1.6	27	3	50	.11	3	.3	.6	22	SSC	
		10	1715	13.31	19	19.79	155	16.07	7.27	1.8	1.9	37	1	90	.12	2	.4	.7	30	SF1	
		10	2059	28.36	19	20.42	155	11.36	8.30	2.2	2.5	40	3	78	.13	4	.5	.7	31	SF3	
		10	23 7	8.11	19	19.74	155	11.45	6.95	1.3	1.3	27	1	131	.10	5	.6	1.0	21	SF3	
		10	2359	9.13	19	26.42	154	54.92	5.64	1.8	1.6	33	3	156	.14	2	.5	.7	18	LER	
		11	2 7	31.84	19	20.24	155	13.01	6.99	1.3	1.1	29	2	67	.11	4	.5	.9	23	SF2	
		11	210	47.86	19	15.97	155	19.63	7.33	1.3	1.3	22	0	152	.10	4	.6	1.2	17	SWR	
		11	1420	6.48	19	10.29	155	28.78	7.97	2.2	1.2	19	1	154	.12	2	1.2	1.2	15	LSW	
		11	21 7	49.06	19	24.50	155	24.91	9.72	1.6	1.3	29	2	46	.09	1	.4	.9	23	KAO	
		11	23 3	.88	19	18.61	155	14.69	6.30	1.1	1.1	28	2	102	.11	4	.5	1.0	22	SF1	
		12	0 6	10.38	19	19.52	155	13.12	8.08	1.5	1.5	36	3	75	.11	5	.5	.7	26	SF2	
		12	3 6	14.92	19	18.24	155	12.94	4.55	1.0	1.1	20	2	103	.10	2	.6	1.1	10	SSF	
		12	456	21.99	18	56.59	155	30.17	14.85	2.7	3.1	39	2	237	.10	18	1.4	.7	32	DLS	
		12	8 2	6.52	19	20.56	155	13.08	8.18	1.4	1.3	28	2	63	.09	4	.5	.8	19	SF2	
		12	1018	29.26	19	19.76	155	6.78	7.70	2.2	2.1	40	4	118	.13	5	.5	.6	29	SF4	
		12	1024	8.73	19	27.62	155	14.79	32.56	2.8	2.9	50	3	40	.11	6	.5	1.0	45	DEP	
		12	1057	55.13	19	26.95	155	35.98	2.66	2.2	1.6	11	1	173	.10	1	.6	.4	7	MLO	
		12	1138	12.45	19	25.66	155	16.23	16.32	1.7	1.9	32	3	116	.08	2	.6	.5	28	DEP	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JUN	12	2012	55.79	19	20.75	155	13.67	9.01	2.1	2.0	41	3	61	.12	4	.4	.5	28	SF2	
		12	2127	47.49	19	26.39	155	38.83	.28	2.3	2.2	14	1	209	.11	5	.8	.6	8	MLO	
		13	219	59.05	19	20.83	155	12.47	7.67	1.8	1.3	31	2	181	.12	4	.8	.7	22	SF2	
		13	235	46.16	19	20.88	155	30.27	9.41	1.9	2.2	30	1	50	.11	6	.4	1.0	24	KAO	
		13	922	8.57	19	20.87	155	6.07	7.86	1.6	1.1	19	0	100	.08	4	.5	1.0	12	SF4	
		13	1245	27.19	19	26.67	155	24.34	3.70			19	2	113	.10	3	.4	.9	14	KAO	
		13	15 2	3.92	19	19.92	155	12.13	9.69	2.4	2.5	43	4	81	.13	5	.4	.5	36	SF3	
		13	1532	8.28	19	24.87	155	23.42	8.98	1.4	1.0	23	4	46	.11	3	.4	.9	16	KAO	
		14	722	8.06	19	21.64	155	1.63	6.87	1.6	.9	28	2	157	.13	4	.6	.8	13	SF5	
		14	730	.95	19	24.31	155	14.12	30.79	2.1	1.8	42	3	60	.09	1	.6	1.0	36	DEP	
		14	1540	12.88	19	12.92	155	29.57	8.06	2.3	2.1	37	2	125	.19	4	.6	.9	23	LSW	
		14	1732	26.48	18	58.22	155	27.92	39.37	2.7	1.8	34	0	227	.07	21	1.8	2.3	33	DLS	
		14	1830	6.44	19	19.37	155	11.63	7.10	1.2	1.1	27	2	97	.09	5	.5	.9	18	SF3	
		14	1956	27.37	19	19.95	155	3.87	7.30	1.4	1.3	25	1	145	.10	2	.8	.5	10	SF5	
		14	2228	30.80	19	19.74	155	11.80	6.11	1.6	1.5	32	2	88	.10	5	.4	.9	23	SF3	
		14	2353	23.77	19	21.21	155	4.68	8.30	1.9	1.5	35	4	91	.12	4	.4	.4	20	SF5	
		15	630	46.29	19	18.45	155	13.46	7.80	1.9	1.7	35	3	84	.10	3	.5	.7	21	SF2	
		15	633	54.28	19	18.61	155	13.65	7.25	1.5	1.9	33	2	74	.12	3	.5	.9	19	SF2	
		15	1132	53.08	19	19.25	155	12.29	4.47	1.1	1.1	23	3	93	.10	5	.4	1.9	14	SSF	
		15	1137	26.20	19	18.30	155	13.43	10.03	2.6	2.8	45	4	82	.12	2	.5	.5	37	SF2	
		15	1150	55.20	19	18.58	155	13.43	7.25	1.2	1.1	22	1	78	.10	3	.5	1.2	16	SF2	
		15	1218	21.66	19	20.41	155	13.09	6.51	1.5	1.3	26	2	64	.10	4	.5	.8	16	SF2	
		15	13 5	59.54	19	21.95	155	6.55	8.05	2.4	2.3	41	4	77	.09	2	.4	.6	32	SF4	
		15	1448	40.39	19	19.83	155	13.52	5.44	1.0	1.1	25	2	72	.14	5	.5	1.4	17	SF2	
		15	19 3	55.23	19	25.40	155	25.52	4.04	1.6	1.1	15	1	128	.10	1	.5	.8	9	KAO	
		16	0 1	8.73	19	20.74	155	13.22	7.52	1.2	1.1	30	2	60	.10	4	.5	.7	19	SF2	
		16	519	34.59	19	18.89	155	12.97	7.28	1.9	1.9	42	2	67	.11	4	.5	.7	29	SF2	
		16	10 1	26.13	19	19.26	155	7.45	7.98	2.1	2.3	35	3	114	.09	4	.5	.7	30	SF4	
		16	1338	33.21	19	20.18	155	11.57	6.61	1.5	1.1	30	2	81	.12	5	.5	1.0	23	SF3	
		16	23 9	3.44	19	55.15	155	29.55	23.49	2.5	2.0	36	6	153	.10	16	.7	1.2	27	KEA	
		17	152	55.27	19	18.99	155	3.62	7.22	2.8	3.3	39	3	194	.09	9	.7	.6	29	SF5	
		17	156	47.53	19	26.83	155	29.05	8.53	1.6	1.2	21	2	69	.09	7	.4	1.2	17	KAO	
		17	3 4	17.70	19	25.03	155	24.16	9.68	1.4	1.3	26	3	44	.10	2	.4	.8	21	KAO	
		17	10 1	39.51	19	20.26	155	12.62	8.07	1.5	1.1	25	1	71	.09	4	.5	.8	19	SF2	
		17	1046	37.15	19	53.18	155	31.28	18.34	2.8	2.9	46	5	133	.11	14	.5	1.7	39	KEA	
		17	1248	41.96	19	20.77	155	13.28	7.55	2.0	2.3	44	6	59	.15	3	.4	.6	29	SF2	
		17	1643	58.30	19	13.33	155	28.53	.00	2.6	2.8	45	5	92	.15	7	.3	.4	23	LSW	*
		17	1726	50.47	19	17.92	155	20.99	7.28	1.1	1.3	31	4	122	.09	4	.4	.7	22	SWR	
		17	22 0	10.41	19	19.38	155	11.35	5.27	1.2	1.1	28	5	99	.11	6	.4	1.4	17	SF3	
		18	148	57.29	19	23.35	155	29.61	9.62	1.9	1.3	36	4	47	.07	4	.3	.7	22	KAO	
		18	151	23.81	19	24.97	155	16.01	15.22	1.4	1.2	38	4	73	.11	2	.5	.3	27	DEP	
		18	731	54.99	19	20.04	155	7.04	8.31	1.9	1.5	33	2	107	.08	5	.5	.6	21	SF4	
		18	1643	20.07	19	22.08	155	28.94	13.54	2.0	1.6	35	2	42	.09	2	.5	.5	26	DML	
		18	1717	15.96	19	25.61	155	36.89	1.61	2.2	2.0	18	3	85	.19	3	.5	1.1	12	MLO	
		18	1747	33.76	19	18.90	155	46.82	1.28	1.3	1.4	23	1	235	.14	13	1.4	1.5	19	KON	
		19	142	26.42	19	16.26	155	23.26	6.83	2.2	2.5	38	2	116	.15	4	.5	.8	33	SWR	
		19	748	41.95	19	20.28	155	7.29	8.30	2.5	2.5	34	2	98	.12	5	.4	.6	30	SF4	
		19	1335	48.97	19	16.08	155	21.98	7.07	1.7	1.9	38	4	144	.12	5	.4	.7	24	SWR	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JUN	19	1711	16.71	19	13.41	155	31.39	5.54	2.2	1.1	27	2	71	.23	4	.7	1.6	17	LSW	
		20	229	15.62	19	4.17	155	14.66	27.15	2.4	1.5	33	1	220	.08	24	1.2	1.9	29	LOI	
		20	355	41.65	19	17.91	155	22.07	7.26	1.2	1.1	29	2	112	.13	6	.4	1.0	15	SWR	
		20	1055	21.74	19	56.79	155	21.32	10.01	2.7	2.5	32	2	193	.12	21	.8	.6	24	KEA	
		20	1446	15.52	19	23.90	155	15.68	14.35	1.5	1.2	27	2	105	.07	2	.4	.5	25	DEP	
		20	16 0	42.49	19	11.32	155	28.89	33.56	2.1	1.7	32	2	83	.07	4	.7	1.5	27	DLS	
		20	1825	39.77	19	23.03	155	1.51	8.11	2.0	1.5	34	2	148	.15	6	.7	.6	20	SF5	
		20	1920	35.36	19	21.02	155	2.39	6.81	1.7	1.5	27	2	155	.14	2	.5	.7	18	SF5	
		21	5 5	36.80	19	20.66	155	13.15	7.54	2.0	1.9	43	5	62	.12	4	.4	.5	34	SF2	
		21	652	38.72	19	24.52	155	29.87	8.86	1.6	1.3	33	1	52	.11	5	.4	.9	20	KAO	
		21	754	47.69	19	28.48	155	37.35	1.01	2.4	2.4	28	2	101	.17	3	.4	.5	17	MLO	
		21	858	42.95	19	29.13	154	53.37	.04	2.2	1.8	23	0	95	.18	5	.5	1.3	13	SLE	*
		21	16 1	19.46	19	16.59	155	22.03	5.53	1.3	1.1	27	2	134	.12	5	.5	1.4	19	SWR	
		21	1755	15.74	19	14.53	155	34.07	8.92	3.8	3.8	46	2	75	.14	5	.5	.6	43	LSW	F
		21	2237	22.92	19	19.73	155	11.35	6.95	1.2	1.3	28	2	91	.10	5	.5	1.1	17	SF3	
		22	1251	13.49	19	29.36	155	51.77	10.77	3.3	3.0	34	2	97	.13	6	.6	.4	27	KON	
		22	1252	51.19	19	29.10	155	51.04	6.84	2.6	1.5	22	2	148	.14	7	1.0	1.1	15	KON	
		22	1531	54.32	19	28.27	155	51.08	7.57	2.8	2.4	28	2	122	.13	7	.7	.5	18	KON	
		22	1642	20.89	19	21.05	155	2.17	6.14	1.5	1.1	28	4	163	.12	3	.5	.7	16	SF5	
		23	958	53.49	19	10.72	155	39.80	2.79	2.4	2.0	22	1	199	.22	9	1.3	4.2	17	LSW	
		23	1910	14.93	19	6.86	155	23.52	43.13	2.0	1.8	32	0	187	.08	9	1.0	2.4	32	LOI	
		23	2221	22.64	19	19.91	155	8.68	5.11	2.1	1.8	39	2	76	.13	5	.5	1.1	28	SF4	
		23	2235	32.20	19	20.16	155	7.41	6.72	1.9	1.5	23	0	98	.12	5	.6	1.2	20	SF4	
		24	013	56.17	19	25.30	155	30.98	9.78	2.0	1.5	26	2	71	.10	8	.4	1.1	22	KAO	
		24	234	6.53	19	20.70	155	12.88	7.31	1.6	1.5	34	4	64	.12	4	.5	.6	24	SF2	
		24	3 5	4.85	19	17.04	155	26.82	8.82	1.4	1.5	27	3	53	.12	7	.4	.7	19	LSW	
		24	538	58.19	19	18.41	155	13.06	6.10	1.2	1.1	25	2	94	.10	3	.5	1.2	20	SF2	
		24	832	41.53	19	21.65	155	2.61	6.40	2.0	2.1	29	2	130	.16	3	.6	1.0	23	SF5	
		24	1353	18.12	19	2.34	155	22.30	32.94	2.0	1.5	37	1	213	.08	17	1.0	1.7	31	LOI	
		24	1457	30.99	19	19.86	155	11.84	4.81	.9		16	1	85	.09	5	.5	2.0	14	SSF	
		24	1457	35.48	19	20.18	155	11.85	6.29	3.0	2.8	39	2	79	.12	5	.4	.7	35	SF3	
		24	1853	20.69	19	27.29	154	52.58	6.76	1.8	1.2	16	1	148	.08	2	.8	1.1	12	LER	
		24	1946	44.60	19	24.22	155	16.97	14.21	1.6	1.2	32	4	66	.10	1	.4	.3	26	DEP	
		25	252	11.46	19	22.75	155	26.74	7.16	2.2	2.0	35	2	44	.12	2	.4	.8	29	KAO	
		25	621	10.23	19	21.23	155	6.26	7.86	2.1	1.9	38	3	91	.13	3	.5	.8	29	SF4	
		25	659	9.26	19	17.46	155	37.54	.25	2.1	2.0	19	0	159	.11	5	1.0	3.1	15	LSW	*
		25	1820	7.48	19	10.18	155	33.06	6.22	2.7	2.7	35	2	113	.14	9	.5	.9	25	LSW	
		25	2242	42.58	19	20.14	155	11.82	7.68		1.1	14	0	80	.11	5	.8	1.3	11	SF3	
		26	324	58.61	19	11.73	155	29.03	33.21	2.1	1.7	22	0	83	.05	5	.7	1.9	19	DLS	
		26	832	47.38	19	20.00	155	10.15	6.50	1.3	.9	31	3	86	.10	4	.5	.8	22	SF3	
		26	1034	45.84	19	11.41	155	29.00	34.03	1.8	1.4	30	0	77	.07	4	.7	2.0	24	DLS	
		26	1658	48.67	19	21.78	155	4.93	9.18	3.7	3.9	48	3	79	.11	3	.5	.3	44	SF5	F
		27	0 5	59.48	19	17.28	155	22.01	5.88	1.7	1.9	37	2	122	.15	6	.4	1.0	29	SWR	
		27	741	59.26	19	25.50	155	25.20	7.25	1.4	1.5	21	1	50	.10	9	.5	1.9	14	KAO	
		27	757	11.61	19	18.57	155	15.07	6.86	1.6	1.1	24	2	109	.11	4	.5	.9	16	SF1	
		27	1131	2.09	19	19.23	155	9.99	7.04	1.4	1.3	28	2	103	.09	5	.5	1.1	19	SF3	
		27	1644	58.71	19	20.63	155	13.01	7.00	1.5	1.8	37	4	63	.12	4	.5	.7	26	SF2	
		28	025	27.46	19	20.96	155	1.38	5.91	1.3	1.3	28	1	179	.15	3	.8	.8	19	SF5	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JUN	28	511	56.26	19	21.57	155	1.72	5.39	1.9	1.7	32	2	156	.14	4	.6	.9	25	SF5	
		28	2033	51.18	19	20.07	155	7.99	8.14	2.0	1.8	37	3	88	.11	5	.4	.5	22	SF4	
		29	159	27.63	19	19.23	155	13.41	6.01	1.2	1.3	28	2	73	.12	4	.5	1.2	16	SF2	
		29	359	3.64	19	32.12	155	35.71	6.99	2.2		19	1	112	.13	5	.6	1.5	16	MLO	
		29	359	13.21	19	30.45	155	36.76	9.54	2.8	2.5	37	4	115	.13	3	.6	.5	30	MLO	
		29	4	3 52.81	19	32.04	155	36.64	10.62	3.1		42	2	84	.14	5	.5	.5	37	MLO	
		29	4	5 8.81	19	30.87	155	36.45	9.08	2.3		27	1	122	.10	3	.6	.5	26	MLO	
		29	4	5 50.72	19	31.01	155	36.10	8.99	2.1	1.7	33	2	134	.10	3	.6	.4	25	MLO	
		29	1053	24.64	19	17.61	155	25.44	37.61	2.0	1.6	27	0	65	.09	6	.7	2.0	22	DLS	
		29	1544	46.70	19	20.55	155	10.83	7.79	2.1	2.0	42	3	77	.12	3	.4	.6	34	SF3	
		29	2047	45.40	19	20.15	155	10.67	7.76	2.4	2.7	43	3	84	.12	4	.4	.7	32	SF3	
		29	21	4 47.94	19	46.82	155	20.19	24.46	2.0	1.5	33	0	106	.11	12	.8	2.4	28	KEA	
		30	010	56.80	19	1.14	155	30.67	38.31	3.4	3.8	51	5	202	.09	16	.8	1.2	46	DLS	
		30	132	28.09	19	25.51	155	37.59	.56	2.5	2.5	25	0	93	.13	4	.4	1.1	17	MLO	
		30	134	50.88	19	20.51	155	12.86	7.64	2.1	2.3	43	3	66	.13	4	.5	.6	33	SF2	
		30	136	9.80	19	20.69	155	6.91	8.64	2.7	3.0	44	3	96	.10	4	.4	.4	32	SF4	
		30	215	12.37	19	43.66	156	1.47	7.57	2.7	2.9	34	1	227	.12	20	1.3	.7	20	HUA	
		30	1250	4.01	19	28.10	155	35.89	2.03	2.4	2.6	28	1	84	.15	2	.5	.3	22	MLO	
		30	1822	8.40	19	17.53	155	30.49	8.55	1.2	1.2	29	2	77	.14	5	.4	1.0	19	LSW	
		30	1948	23.46	19	32.20	155	42.04	3.35	1.2	1.4	32	5	83	.13	7	.5	2.2	24	MLO	
		30	2011	18.61	19	23.09	155	26.71	10.24	3.4	3.3	51	5	32	.13	2	.3	.4	46	KAO	F
		30	2158	21.48	19	22.99	155	26.96	10.01	1.7	1.5	33	1	42	.10	2	.4	.7	25	KAO	
		30	2213	20.04	19	16.88	155	21.87	5.53	1.8	1.5	34	1	130	.14	6	.5	1.5	26	SWR	
	JUL	1	4	0 57.68	19	17.70	155	13.12	6.65	1.2	1.1	27	3	112	.09	1	.5	.8	20	SF2	
		1	11	0 16.56	19	18.83	155	16.70	32.61	3.1	3.1	46	1	108	.10	3	.6	1.0	44	DEP	
		1	1329	51.21	19	19.44	155	11.50	7.75	1.8	1.2	28	1	97	.09	6	.5	1.0	22	SF3	
		1	1759	41.33	19	20.17	155	3.90	5.18	2.0	1.4	27	3	129	.12	2	.5	.9	19	SF5	
		1	20	6 55.34	19	21.17	155	2.60	7.14	2.1	1.7	34	3	143	.14	2	.7	.7	25	SF5	
		1	2238	53.50	19	25.44	155	36.96	.01	1.2	1.3	9	1	108	.18	4	.8	1.5	8	MLO	*
		1	2332	47.94	19	25.78	155	26.62	6.88	2.1	1.6	35	2	56	.11	3	.3	.9	29	KAO	
		2	217	42.55	19	19.87	155	3.03	5.02	2.2	1.4	29	3	183	.12	0	.6	.8	18	SF5	
		2	8	8 53.37	19	19.88	155	10.95	9.36	2.6	2.8	34	1	89	.09	4	.4	.4	29	SF3	
		2	856	59.62	19	22.90	155	27.08	10.42	2.5	2.5	43	3	42	.12	1	.4	.6	30	KAO	
		2	959	.54	19	25.76	155	37.46	.21	3.1	3.2	39	2	92	.11	6	.4	.6	33	MLO	
		2	18	9 49.93	19	20.58	155	10.77	8.50	2.4	2.5	38	2	76	.10	3	.4	.5	30	SF3	
		2	2016	30.96	19	29.56	155	38.39	7.13	1.4	1.2	18	2	73	.14	4	.5	1.5	12	MLO	
		2	2047	7.76	19	29.54	155	38.33	6.73	1.5	1.2	21	3	95	.14	4	.6	1.1	13	MLO	
		2	2252	18.48	19	19.43	155	9.94	7.63	1.4	1.2	32	3	98	.09	5	.5	.8	27	SF3	
		2	2325	33.93	19	23.78	155	37.47	2.19	1.0	1.1	9	2	114	.10	6	.6	1.8	6	MLO	
		2	2337	23.05	19	29.34	155	38.59	6.88	1.5	1.2	18	3	94	.15	5	.6	1.1	12	MLO	
		3	129	3.06	19	27.05	155	50.68	6.18	2.2	1.5	29	5	111	.11	9	.5	1.1	24	KON	
		3	437	25.30	19	19.02	155	13.85	7.69	1.9	2.3	40	3	75	.13	4	.5	.6	32	SF2	
		3	1119	7.22	19	19.26	155	15.12	8.90	2.2	2.1	38	3	96	.10	4	.4	.5	32	SF1	
		3	22	7 51.75	19	25.44	155	37.35	1.66	2.5	2.6	29	1	75	.20	8	.6	2.2	21	MLO	
		4	932	38.67	19	20.30	155	13.39	6.67	1.8	1.3	33	3	63	.13	4	.5	.9	28	SF2	
		4	1414	4.43	19	24.24	154	58.83	7.02	2.1	1.8	35	2	166	.13	2	.7	.7	24	LER	
		4	1837	51.04	19	21.13	155	15.44	26.63	2.3	1.9	45	4	69	.10	3	.6	.8	39	DEP	
		4	2032	31.79	19	19.36	155	13.22	6.84	2.0	1.5	39	3	75	.10	4	.4	.7	29	SF2	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JUL	4	2037	53.50	19	11.76	155	37.49	8.24	1.9	1.9	26	2	96	.21	6	.6	1.3	20	LSW	
		5	0	6 31.90	19	17.54	155	14.77	6.19	1.2	1.3	32	1	126	.11	2	.5	.8	21	SF1	
		5	432	19.61	19	21.20	155	25.17	9.56	2.1	2.2	32	4	52	.14	4	.4	.8	28	KAO	
		5	649	15.43	19	20.29	155	4.03	6.79		1.7	25	0	122	.10	2	.6	.7	22	SF5	
		5	1751	4.10	19	20.11	155	3.12	7.16	1.4	1.1	27	1	100	.11	1	.7	.7	18	SF5	
		5	1937	10.44	19	25.62	155	24.49	10.53	2.6	2.7	48	5	37	.13	1	.4	.4	35	KAO	
		5	21	6 8.49	19	18.99	155	15.20	7.68	1.3	1.3	26	3	102	.09	4	.4	.8	21	SF1	
		6	231	33.32	19	19.43	155	11.12	8.15	2.2	2.4	38	2	99	.10	5	.4	.6	27	SF3	
		6	1657	54.20	19	20.61	155	12.17	7.58	1.6	1.5	35	3	70	.14	4	.5	.7	20	SF3	
		6	2029	37.35	19	25.66	155	28.03	8.83	2.4	2.3	38	2	48	.12	6	.3	.8	27	KAO	
		6	2211	6.16	19	20.49	155	13.04	7.19	1.5	1.5	32	3	64	.10	4	.4	.6	27	SF2	
		7	2	5 17.29	19	23.08	155	36.38	35.76	3.7	3.4	46	5	312	.09	67	1.6	2.5	42	DIS	
		7	918	43.99	19	32.23	155	56.62	9.23	3.1	2.5	35	5	209	.20	6	1.1	.6	21	KON	
		7	1140	59.48	19	27.24	155	36.23	2.94	2.6	2.3	16	0	153	.18	4	.9	1.8	11	MLO	
		7	1157	3.63	19	28.73	155	41.51	6.84	2.6	1.6	29	4	90	.19	8	.6	1.7	26	MLO	
		7	1947	53.53	19	21.36	155	1.01	5.72	2.1	2.3	38	3	176	.21	4	.8	1.1	23	SF5	
		7	23	5 12.21	19	15.15	155	25.47	35.52	2.1	2.2	35	1	82	.10	3	.7	1.5	31	DLS	
		8	311	51.20	19	19.31	155	9.77	7.57	1.8	1.8	31	2	99	.08	5	.4	.7	26	SF3	
		8	841	59.65	19	24.35	155	28.06	9.64	2.2	2.3	24	0	52	.11	4	.5	1.0	15	KAO	
		8	1620	10.32	19	26.78	155	29.29	8.67	2.4	1.8	40	4	53	.11	8	.3	.7	29	KAO	
		8	18	9 30.04	19	24.70	155	25.95	9.64	1.7	1.3	36	3	50	.13	2	.4	.7	25	KAO	
		9	0	7 38.49	19	31.37	155	13.13	13.76	2.4	1.8	39	2	62	.11	13	.5	.4	32	DEP	
		9	057	16.09	19	31.44	155	13.02	14.50	2.2	1.8	38	3	61	.11	13	.5	.5	30	DEP	
		9	654	57.11	19	19.33	155	9.73	6.23	1.2	1.3	27	2	98	.12	5	.6	1.4	24	SF3	
		9	1130	32.42	18	54.75	155	15.68	11.13	2.9	3.3	36	1	248	.12	35	1.5	.6	15	LOI	
		10	634	38.35	19	23.06	155	3.47	7.99	1.4	1.1	22	1	105	.11	3	.5	.7	16	SF5	
		10	2310	14.85	19	3.77	155	22.86	36.08	2.8	2.7	39	1	203	.07	14	.9	1.4	36	LOI	
		11	317	5.86	19	19.74	155	7.97	6.53	1.3	1.6	29	1	92	.12	4	.5	1.2	21	SF4	
		11	456	23.98	19	20.59	155	12.21	8.80	1.6	1.5	29	2	71	.08	4	.5	.7	24	SF3	
		11	1049	39.07	19	25.81	155	37.74	1.97	2.5	2.1	12	0	95	.13	4	.6	1.2	5	MLO	
		11	1111	12.38	19	18.67	155	13.62	9.41	2.8	1.5	41	1	84	.12	3	.5	.5	38	SF2	
		11	1417	26.36	19	20.51	155	12.83	7.52	1.6	1.8	36	2	66	.11	4	.5	.7	25	SF2	
		11	1929	47.35	18	48.53	155	15.07	20.35	2.7	2.8	20	0	305	.14	45	10.2	20.3	2	LOI	L*
		11	23	5 51.42	19	23.08	155	27.52	7.67	2.2	2.1	43	3	56	.11	1	.4	.6	32	KAO	
		12	025	1.90	19	17.44	155	21.19	4.64	1.7	2.0	32	3	126	.11	5	.4	1.8	19	SWR	
		13	844	14.10	19	21.37	155	6.65	5.94	2.4	2.4	22	0	86	.13	3	.5	1.1	13	SF4	
		13	9	1 43.12	19	19.95	155	16.88	33.56	2.3	2.0	40	1	88	.11	1	.7	1.2	35	DEP	
		13	1045	30.53	19	16.01	155	22.87	6.04	1.8	1.6	33	1	130	.13	4	.5	1.1	23	SWR	
		13	1058	31.88	19	20.28	155	8.87	6.72	1.6	1.3	34	2	71	.10	4	.5	.9	24	SF4	
		13	1150	46.95	19	20.58	155	12.78	7.25	1.6	1.5	32	2	68	.11	4	.5	.7	21	SF2	
		13	1235	13.75	19	24.80	155	15.94	37.16	2.3	1.3	24	1	90	.10	2	1.3	3.4	10	DEP	L
		13	1242	13.49	19	51.58	155	22.51	31.49	2.8	1.8	43	3	99	.10	5	.7	1.5	32	KEA	
		14	036	8.37	19	26.19	155	24.61	8.05	1.8	1.5	28	1	47	.11	2	.4	.9	24	KAO	
		14	140	34.95	19	18.74	155	15.69	8.24	2.2	1.9	41	1	104	.12	4	.4	.6	34	SF1	
		15	133	46.17	19	33.37	155	42.32	.39	2.5	1.7	20	2	89	.10	8	.5	.6	11	MLO	
		15	10	8 51.61	19	20.75	155	11.90	8.34	3.0	2.9	48	4	70	.13	4	.4	.6	42	SF3	
		15	1545	59.99	19	18.44	155	13.39	8.17	2.2	2.5	44	2	82	.12	3	.4	.5	36	SF2	
		15	16	1 38.97	19	18.45	155	13.33	7.46	2.2	2.4	48	4	84	.13	3	.5	.6	35	SF2	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JUL	15	19 5	16.57	19	32.35	155	35.78	6.88	2.3	1.2	28	5	113	.13	6	.5	1.2	19	MLO
		16	040	29.09	19	21.42	155	1.39	7.04	3.1	3.2	43	1	167	.13	4	.6	.4	34	SFS
		16	053	34.85	19	19.56	155	12.55	5.04	.9	1.1	28	1	83	.12	5	.5	1.9	21	SF2
		16	544	36.13	19	19.11	155	15.14	7.69	2.0	2.3	42	1	90	.12	4	.5	.7	39	SF1
		16	1258	12.09	19	19.56	155	13.95	6.10	1.6	1.1	29	2	73	.10	5	.5	1.0	23	SF2
		16	2322	32.90	19	21.07	155	13.02	7.80	2.7	2.7	45	3	158	.14	3	.5	.6	40	SF2
		17	1 6	25.95	19	19.68	155	10.49	7.33	1.9	1.6	37	1	93	.10	5	.4	.6	27	SF3
		17	241	28.63	19	21.35	155	2.06	6.08	2.0	1.3	29	1	176	.17	7	1.2	1.7	23	SF5
		17	635	59.48	19	16.57	155	24.00	3.89	1.3	1.3	25	2	94	.11	4	.4	1.6	17	SWR
		17	817	4.47	19	24.12	155	.66	7.75	1.8	1.2	29	2	171	.19	4	.8	.7	23	SF5
		17	1041	25.18	19	32.36	155	36.00	7.19	2.5	1.9	34	3	90	.11	6	.5	1.0	25	MLO
		17	1538	45.69	19	16.77	155	33.91	6.75	1.6	1.4	33	1	83	.16	7	.5	1.7	24	LSW
		17	1657	29.49	19	20.57	155	6.93	8.50	2.1	1.8	36	1	98	.11	5	.5	.6	27	SF4
		17	17 0	54.87	19	20.23	155	13.14	6.14	1.6	1.1	31	3	66	.12	4	.5	1.2	25	SF2
		17	2217	37.53	19	19.91	155	6.60	7.88	2.3	2.6	33	0	153	.09	5	.6	.6	27	SF4
		17	2253	46.24	19	21.21	155	1.77	6.61	2.0	1.7	36	2	179	.11	8	.7	.7	29	SF5
		17	2257	44.65	19	21.57	155	14.24	25.99	1.8	1.3	37	2	57	.10	3	.6	.8	33	DEP
		18	452	27.31	19	25.18	155	25.08	8.93		1.2	20	0	61	.11	7	.5	1.5	19	KAO
		18	7 1	22.49	19	22.22	155	2.15	7.01	2.0	1.5	24	0	144	.15	5	.7	.8	22	SF5
		18	738	55.82	19	20.20	155	4.18	5.52		1.3	18	0	129	.10	2	.7	1.4	17	SF5
		18	1532	15.82	19	19.59	155	6.50	8.12	2.4	2.4	39	2	159	.10	5	.6	.4	29	SF4
		18	1624	37.25	19	20.42	155	7.04	7.09	1.9	1.6	32	0	137	.13	5	.6	1.1	26	SF4
		18	2035	33.96	20	12.33	157	40.18	28.70	3.1	3.6	22	1	330	.18	198	4.5	4.6	13	DIS
		19	7 5	2.57	19	21.20	155	2.37	4.19	2.1	1.5	33	2	175	.16	7	.9	4.0	24	SSF
		19	1138	8.86	19	19.19	155	12.08	8.37		1.3	23	0	97	.10	5	.6	.7	18	SF3
		19	1442	55.27	19	20.33	155	12.08	7.83	1.4	1.3	30	2	75	.11	5	.5	.7	24	SF3
		19	1742	34.63	19	24.89	155	24.81	9.53	2.7	2.9	51	5	35	.15	1	.4	.5	39	KAO
		19	1920	43.25	19	19.18	155	16.26	6.84	1.5	1.1	34	2	109	.09	3	.4	.7	26	SF1
		19	1934	50.90	19	50.58	155	23.22	26.44	2.5	2.1	41	4	151	.10	7	.7	1.4	35	KEA
		19	2035	10.43	19	21.28	155	6.12	7.47	1.1	1.1	32	0	90	.12	3	.4	.7	20	SF4
		19	2324	30.80	19	20.25	155	12.53	7.80	1.3	1.3	32	3	73	.10	5	.5	.8	21	SF2
		20	955	39.48	19	28.76	155	43.37	8.15	2.4	1.6	35	4	66	.13	6	.5	1.0	25	KON
		20	18 6	11.80	19	20.09	155	7.57	7.01	1.9	1.7	33	4	130	.09	5	.5	.7	19	SF4
		20	1858	27.99	19	19.84	155	12.36	6.71	1.3	1.1	28	3	81	.11	5	.5	1.0	20	SF2
		20	20 8	50.87	19	20.82	155	6.25	7.83	2.3	2.3	39	3	140	.11	4	.5	.7	28	SF4
		21	655	18.47	19	18.89	155	11.60	5.08	1.3	1.1	31	4	111	.10	5	.4	1.4	17	SF3
		21	1238	15.04	19	14.53	155	30.03	1.14	1.4	1.9	18	0	117	.16	1	.6	.3	13	LSW
		21	1455	55.64	19	18.59	155	14.48	6.70	1.9	1.9	43	3	87	.11	3	.4	.8	31	SF2
		21	2047	7.08	19	29.33	155	39.07	7.59	1.2	1.0	18	2	95	.12	5	.5	.9	13	MLO
		22	211	35.12	19	20.80	155	13.54	8.63	2.1	2.3	40	3	59	.11	3	.4	.6	28	SF2
		22	629	36.74	19	19.01	155	13.79	7.38	1.4	1.2	30	0	75	.10	4	.5	.9	23	SF2
		22	2127	27.06	19	20.11	155	10.12	7.11	2.0	1.6	35	2	83	.12	4	.5	.8	26	SF3
		22	2326	56.59	19	19.37	155	11.74	6.87	1.6	1.5	28	2	96	.11	5	.5	1.0	22	SF3
		23	259	20.12	19	20.67	155	2.80	7.21	2.3	2.2	39	2	178	.11	7	.7	.6	32	SF5
		23	6 8	45.22	19	22.75	155	30.18	7.79	1.9	1.3	32	2	74	.10	5	.4	.8	25	KAO
		24	0 5	12.89	19	21.78	155	25.03	9.49	1.6	1.3	29	3	44	.12	4	.4	.8	20	KAO
		24	524	45.17	19	14.42	155	35.09	7.80	2.4	2.1	37	2	88	.21	4	.6	1.1	27	LSW
		25	146	40.32	19	25.33	155	25.24	4.31	1.6	1.6	32	2	40	.11	0	.4	.8	24	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JUL	25	415	24.40	19	23.20	155	28.08	9.83	1.9	1.2	28	1	36	.12	2	.4	.8	15	KAO
		25	610	51.44	19	21.87	155	2.10	6.30	1.3	1.4	29	1	170	.14	6	.8	1.0	19	SF5
		25	937	33.37	19	21.85	155	24.97	9.41	1.7	1.3	30	2	93	.11	4	.4	.7	25	SWR
		25	16 4	59.03	19	21.53	155	2.79	6.81	1.7	1.2	35	2	169	.20	6	.9	1.0	25	SF5
		25	2117	48.73	19	24.75	155	24.72	9.74	2.4	2.5	47	5	36	.13	1	.4	.5	39	KAO
		26	2 8	47.16	19	33.59	155	42.50	2.52	2.9	2.2	27	1	90	.11	8	.5	2.6	20	MLO
		26	533	28.65	19	19.83	155	7.35	7.54	2.1	1.5	33	1	137	.09	5	.6	.7	24	SF4
		26	741	46.66	19	45.76	155	26.18	27.48	2.4	1.7	39	2	75	.11	3	.6	1.4	33	KEA
		26	941	26.62	18	56.51	155	33.53	38.49	2.1	1.7	35	2	248	.11	12	2.3	1.6	31	DLS
		26	1021	29.73	19	25.57	155	24.64	9.26	3.6	3.9	48	2	36	.12	1	.4	.5	46	KAO F
		26	1445	32.70	19	20.43	155	11.36	8.45	2.2	2.3	40	3	78	.12	4	.4	.6	29	SF3
		26	1634	38.04	19	25.58	155	28.93	5.73	1.8	1.3	25	2	60	.12	6	.4	1.6	18	KAO
		27	449	37.94	19	21.11	155	7.69	6.92	1.3	1.1	29	1	120	.10	4	.5	.8	21	SF4
		27	916	56.20	19	18.92	155	26.37	8.41		1.3	27	1	75	.18	6	.6	.9	15	LSW
		27	1216	41.97	19	20.00	155	4.64	5.84	1.4	1.7	25	3	171	.09	6	.6	1.2	15	SF5
		28	458	42.05	19	21.32	155	24.16	8.09	1.7	1.1	29	4	80	.12	3	.5	.8	19	SWR
		29	219	32.50	19	20.75	155	7.12	7.44	2.4	2.5	38	4	133	.11	4	.5	.7	29	SF4
		29	4 5	18.10	19	15.96	155	31.94	6.44	2.8	3.1	43	4	55	.22	4	.5	1.1	29	LSW
		29	1625	33.04	19	20.55	155	13.24	7.68	1.1	1.1	29	2	62	.13	4	.6	.8	21	SF2
		29	1924	46.23	19	21.37	155	2.21	7.41	1.9	1.5	33	1	155	.14	3	.8	.5	18	SF5
		30	052	22.51	19	24.08	155	16.27	1.55	1.8	2.0	24	2	102	.10	1	.2	.2	15	SEC
		30	2 1	6.76	19	21.95	155	6.54	8.10	3.0	3.0	47	4	77	.11	2	.4	.6	39	SF4
		30	325	8.15	19	6.13	155	25.92	49.15	2.4		34	0	185	.11	7	1.3	3.5	24	DLS
		30	749	56.08	19	25.37	155	24.75	9.84	3.3	3.4	46	3	72	.13	1	.4	.6	41	KAO
		30	9 3	56.89	19	22.98	155	23.82	9.78	1.8	2.1	42	3	35	.12	5	.4	.5	31	KAO
		30	950	43.75	19	21.73	155	15.21	8.92	3.0	2.9	46	3	61	.13	2	.4	.5	39	SF1
		30	1652	21.85	19	21.90	155	.65	6.92	1.9	1.4	32	2	170	.14	5	.7	.5	21	SF5
		30	1834	34.56	19	22.77	155	24.98	9.43	1.6	1.1	34	2	43	.13	5	.4	.7	24	KAO
		30	1954	17.68	19	19.06	155	15.21	8.95	2.3	2.5	40	3	101	.11	4	.5	.6	31	SF1
		31	343	55.23	19	21.11	155	8.31	7.55	2.8	3.2	41	3	71	.10	3	.4	.6	33	SF4 F
		31	4 0	26.06	19	19.19	155	11.91	6.36	1.2	1.1	31	3	99	.09	5	.4	1.0	26	SF3
		31	539	16.34	19	19.70	155	7.44	8.73	3.8	3.9	44	3	105	.09	4	.5	.4	36	SF4
		31	1329	13.63	19	18.23	155	15.60	8.33	2.5	2.7	43	2	138	.11	5	.4	.5	33	SF1
		31	1616	57.97	19	18.23	155	15.60	10.80	3.5	3.6	46	3	138	.11	5	.4	.4	42	SF1 F
		31	2359	3.99	19	21.07	155	2.71	7.49	1.9	1.3	32	0	132	.14	2	.6	.7	23	SF5
	AUG	1	228	20.48	19	19.68	155	10.19	7.46	1.5	1.3	29	1	93	.11	4	.5	1.0	25	SF3
		1	10 7	20.57	19	18.68	155	13.28	7.70	1.7	1.6	31	2	82	.09	3	.4	.7	21	SF2
		1	1030	31.55	19	20.03	155	12.68	7.69	1.5	1.8	36	3	74	.12	5	.5	.8	26	SF2
		1	1221	50.43	19	21.66	155	2.36	5.11	2.1	1.5	35	2	137	.16	3	.6	1.1	26	SF5
		2	053	38.80	19	24.13	155	16.83	16.48	2.2	2.4	48	6	44	.11	1	.4	.4	41	DEP
		2	3 3	12.38	19	24.54	155	27.22	10.83	1.8	1.5	39	2	35	.11	4	.4	.6	30	KAO
		2	739	20.18	19	28.27	155	28.27	8.81	2.3	1.5	38	6	63	.14	7	.5	1.0	25	KAO
		2	12 3	7.83	19	19.14	155	10.91	6.03	1.4	1.1	29	3	107	.10	6	.5	1.2	21	SF3
		2	1237	26.85	19	22.90	155	4.03	6.62	1.4	1.1	19	0	155	.10	3	.6	.9	14	SF5
		2	1330	55.38	19	16.31	155	15.65	8.32	1.8	1.8	29	2	187	.11	4	.7	.6	22	SF1
		2	1347	23.70	19	42.14	155	2.26	.03	2.4	2.3	28	1	148	.21	1	1.5	1.3	15	HIL B*
		2	2324	42.48	19	23.12	155	16.97	12.73	2.3	2.2	48	2	37	.13	1	.4	.3	41	INT
		3	040	55.66	19	54.88	156	22.71	2.75	2.2	2.4	35	2	285	.12	62	5.4	3.1	28	DIS

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	AUG	3	1 5	38.66	19	22.12	155	4.93	8.20	2.1	2.0	27	1	77	.10	3	.4	.6	20	SF5	
		3	1239	11.79	19	19.25	155	16.01	6.84	1.5	1.6	33	3	105	.11	3	.4	.7	25	SF1	
		3	14 1	42.94	19	28.20	155	38.75	4.59	2.4	1.7	31	5	79	.15	5	.5	1.6	21	MLO	
		4	032	49.82	19	19.95	155	8.46	6.41	1.4	1.1	26	1	79	.11	5	.5	1.0	23	SF4	
		4	2 2	12.50	19	20.73	155	11.85	8.04	1.8	1.9	43	5	71	.12	4	.4	.5	36	SF3	
		4	433	31.28	19	25.63	155	37.70	1.90	2.7	2.8	34	2	95	.12	4	.4	.8	27	MLO	
		4	628	10.89	19	19.72	155	8.54	5.11	1.6	1.1	24	1	79	.12	5	.5	1.6	20	SF4	
		4	1059	59.94	19	28.83	155	35.73	2.33	2.2	1.9	17	2	136	.09	1	.6	.2	12	MLO	
		4	1747	20.37	19	25.52	154	55.16	6.35	2.3	2.4	32	1	170	.15	4	.9	.6	21	LER	
		5	836	59.68	19	19.84	155	8.23	8.57	1.6	2.2	39	4	85	.10	5	.5	.5	28	SF4	
		5	1810	50.58	19	9.85	155	36.37	4.61	2.8	2.2	36	3	106	.19	10	.5	2.8	18	LSW	
		5	2343	23.45	19	20.28	155	12.80	8.48	1.5	1.0	28	2	69	.06	4	.4	.7	18	SF2	
		6	252	21.55	19	22.19	155	1.47	7.41	1.8	1.2	36	4	160	.15	5	.7	.5	23	SF5	
		6	1158	30.96	19	29.29	155	24.62	9.86	2.0	1.6	35	3	59	.12	3	.4	.7	25	KAO	
		6	12 7	41.27	19	25.74	155	36.96	2.37	1.2	1.5	14	3	105	.13	3	.5	.7	8	MLO	
		6	1933	21.13	19	19.91	155	6.62	8.14	2.4	2.4	39	3	118	.11	5	.6	.6	30	SF4	
		6	1941	50.54	19	31.89	155	56.13	13.46	2.7	1.8	24	2	257	.12	20	1.8	.6	15	KON	
		6	2042	47.02	19	20.23	155	3.56	6.11	2.0	1.5	28	1	119	.13	1	.6	.8	15	SF5	
		7	1041	26.27	19	27.29	154	50.86	8.37	2.9	3.0	40	4	232	.15	1	1.2	.4	32	LER	
		7	23 7	8.42	19	23.00	155	24.06	10.64	2.3	2.5	42	3	31	.10	5	.4	.5	34	KAO	
		8	444	6.21	19	16.66	155	23.80	3.38	1.8	1.9	30	3	99	.14	4	.4	1.2	14	SWR	
		8	1139	51.38	19	20.06	155	12.05	8.75	3.1	3.2	44	4	79	.09	5	.4	.5	32	SF3	
		8	1454	16.63	19	18.85	155	15.64	5.52	1.0	1.1	24	1	110	.10	5	.5	1.5	14	SF1	
		8	1657	2.12	19	22.08	155	4.69	6.54	1.2	1.1	27	1	81	.16	3	.6	1.0	19	SF5	
		8	2338	52.59	19	21.91	155	17.13	32.22	1.7	1.4	38	2	56	.11	2	.7	1.1	28	DEP	
		9	032	16.53	19	20.93	155	1.49	7.88	2.6	2.6	41	6	178	.18	3	.8	.5	29	SF5	
		9	858	42.37	19	20.51	155	45.56	9.89	2.8	2.1	31	2	224	.13	10	1.1	.7	21	KON	
		9	915	52.81	19	20.50	155	11.05	7.86	1.6	1.6	36	4	99	.11	4	.5	.7	28	SF3	
		9	1046	46.55	19	20.04	155	12.80	5.54	1.4	1.1	24	1	72	.12	5	.5	1.5	17	SF2	
		9	1132	8.23	19	20.16	155	9.57	7.58	1.8	1.5	31	2	79	.10	4	.5	.8	20	SF3	
		9	1533	21.26	19	17.72	155	20.64	5.07	1.1	1.1	24	2	125	.09	4	.4	1.3	20	SWR	
		9	2134	31.41	19	20.14	155	11.61	7.52	1.8	1.5	39	4	82	.11	5	.4	.6	29	SF3	
		10	036	24.54	19	21.22	155	6.68	7.79	2.0	1.5	39	3	88	.13	3	.4	.7	28	SF4	
		10	250	9.88	19	19.64	155	7.65	8.48	2.3	2.4	40	6	102	.10	4	.5	.5	31	SF4	
		10	1247	50.28	19	19.90	155	11.81	6.91	1.3	1.1	28	2	85	.10	5	.6	1.1	21	SF3	
		10	2132	18.01	20	54.22	154	51.17	2.35	2.5	2.6	20	0	332	.12	135	49.0	29.0	12	DIS	*
		10	23 2	25.80	19	35.11	155	54.69	27.30	2.8	2.9	47	6	188	.10	11	.7	1.2	33	KON	F
		11	5 2	36.22	19	19.49	155	11.39	6.35	1.2	1.1	31	2	96	.10	5	.5	1.1	20	SF3	
		11	510	55.30	19	20.19	155	4.11	5.18	1.3	1.1	18	2	129	.10	2	.6	1.1	10	SF5	
		11	613	18.96	19	20.52	155	11.91	7.93	2.5	2.8	48	4	73	.13	4	.5	.6	39	SF3	
		11	1318	28.32	19	20.27	155	13.49	6.63	1.1	.8	27	1	66	.12	4	.6	1.1	24	SF2	
		12	214	47.93	19	19.87	155	7.02	7.71	2.2	2.3	34	2	111	.10	5	.5	.7	29	SF4	
		12	552	27.75	19	19.41	155	13.91	6.32	1.2	.8	35	2	65	.12	4	.4	.9	29	SF2	
		12	622	24.63	20	19.32	155	6.61	15.05		2.5	15	0	294	.13	54	8.3	99.0	8	KEA	*
		12	1546	56.80	19	22.09	155	5.88	9.68	1.3	1.2	23	1	76	.11	2	.5	.8	16	SF4	
		13	021	33.47	19	25.93	155	37.69	1.56	2.9	3.2	33	2	94	.14	3	.5	.8	25	MLO	
		13	134	27.17	19	20.42	155	12.00	8.18	2.2	2.4	48	6	75	.13	5	.5	.5	34	SF3	
		13	648	50.03	19	14.88	155	33.79	6.67	2.7	2.7	41	2	71	.19	6	.5	1.3	33	LSW	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	AUG	13	1429	54.73	19	20.00	155	13.43	6.56	1.8	1.5	31	1	64	.13	5	.5	.8	25	SF2	
		13	1714	18.67	19	19.81	155	6.95	9.34	3.6	3.7	51	5	114	.10	5	.5	.4	43	SF4	F
		13	2041	58.86	19	23.95	155	13.49	31.04	2.1	1.8	42	1	67	.10	2	.6	1.0	38	DEP	
		14	225	58.89	19	20.38	155	12.79	7.72	1.2	1.1	27	1	68	.09	4	.5	.9	19	SF2	
		14	4 0	56.69	19	19.26	155	13.57	7.60	1.6	1.5	32	1	68	.11	4	.5	.7	23	SF2	
		14	511	20.04	19	21.37	155	49.93	12.42	2.9	2.5	37	0	126	.13	11	.6	.3	24	KON	
		14	615	37.18	19	20.75	155	6.98	7.74	1.9	1.7	31	1	94	.09	4	.4	.7	23	SF4	
		14	7 3	55.02	19	19.87	155	7.86	8.34	1.7	1.3	31	1	94	.09	5	.5	.6	18	SF4	
		14	1013	36.45	19	19.96	155	11.67	6.67	1.4	1.1	30	1	85	.10	5	.5	.9	23	SF3	
		14	13 6	8.07	19	23.18	155	24.30	12.83	1.6	1.5	36	2	40	.11	4	.5	.6	32	KAO	
		14	2049	10.33	19	19.88	155	6.57	6.96	1.8	1.3	24	0	119	.10	5	.5	1.2	18	SF4	
		15	413	45.74	19	21.51	155	2.01	6.25	1.4	1.2	20	1	158	.11	3	.5	.9	13	SF5	
		15	932	13.03	19	19.95	155	6.34	8.08	1.6	1.4	35	1	121	.12	6	.6	.6	26	SF4	
		15	1414	47.32	19	16.39	155	15.33	7.04	2.1	1.9	33	1	158	.12	4	.6	1.0	29	SF1	
		15	2030	1.49	19	21.85	155	7.22	6.17	1.9	.9	34	3	74	.13	5	.5	1.3	23	SF4	
		15	2251	.57	19	19.63	155	13.78	5.20	1.3	1.1	33	3	69	.13	5	.5	1.5	27	SF2	
		15	23 8	2.86	19	25.91	155	28.10	10.45	2.6	2.5	46	4	40	.13	6	.3	.5	36	KAO	
		15	2332	14.17	19	18.60	155	13.12	4.40	1.4	1.0	31	1	88	.10	3	.4	1.2	23	SSF	
		15	2334	40.73	19	18.31	155	13.01	6.13	1.3	.6	29	2	98	.09	3	.5	1.0	21	SF2	
		15	2335	21.47	19	19.01	155	13.07	9.70	3.0	2.7	46	4	128	.14	7	.5	.5	35	SF2	F
		15	2357	3.65	19	19.14	155	13.16	9.37	2.6	2.4	42	4	127	.12	6	.5	.6	34	SF2	F
		16	010	44.63	19	57.73	155	50.38	7.16	3.7	3.8	44	5	189	.11	19	.9	.9	37	KOH	F
		16	034	5.51	19	19.49	155	13.31	6.28	1.1	.6	25	1	72	.09	5	.5	1.3	20	SF2	
		16	712	8.22	19	18.09	155	12.87	9.27	2.7	2.4	39	1	141	.08	8	.5	.6	32	SF2	
		16	720	24.29	19	17.86	155	12.71	5.72	1.4	1.2	30	3	125	.10	2	.5	.9	25	SF2	
		16	842	18.13	19	18.36	155	12.92	9.57	2.8	2.4	38	1	136	.09	8	.5	.6	37	SF2	
		16	859	28.69	19	17.50	155	12.66	6.77	1.7	1.1	27	1	148	.11	2	.5	.9	22	SF2	
		16	9 0	19.88	19	18.67	155	13.02	10.35	2.7	2.9	44	4	155	.11	7	.4	.4	32	SF2	F
		16	9 5	25.67	19	18.52	155	12.96	8.66	1.9	1.3	33	1	135	.11	8	.5	.8	24	SF2	
		16	924	34.43	19	18.42	155	13.05	7.65	1.7	1.3	34	3	94	.09	3	.5	.7	23	SF2	
		16	10 2	58.13	19	18.38	155	13.40	7.15	1.8	1.8	36	2	82	.10	3	.5	.8	26	SF2	
		16	1034	1.84	19	17.52	155	12.82	5.76	1.6	1.6	28	2	140	.08	1	.6	1.0	17	SF2	
		16	1114	5.61	19	18.09	155	12.93	5.87	2.1	2.0	37	2	108	.11	2	.5	.9	28	SF2	
		16	1928	6.31	19	20.03	155	12.38	8.01	1.2	1.1	25	3	77	.08	5	.5	.7	19	SF2	
		16	2145	15.01	19	18.40	155	15.72	7.30	1.1	1.1	23	1	121	.11	4	.6	1.3	18	SF1	
		16	2155	45.10	19	23.86	155	16.09	3.25	1.6	1.4	18	3	102	.13	1	.5	.3	14	SEC	
		16	2249	40.77	19	17.84	155	12.30	10.38	2.1	2.1	35	2	145	.13	8	.6	.7	26	SF3	
		17	855	40.15	19	20.58	155	12.56	7.53	1.4	1.6	33	5	68	.09	4	.4	.6	27	SF2	
		17	1558	11.12	19	18.56	155	13.01	7.95	1.8		34	0	134	.11	8	.5	.9	28	SF2	
		17	1558	53.79	19	20.83	155	7.99	8.05	1.8	1.7	26	0	79	.10	4	.5	1.1	22	SF4	
		17	1744	30.96	19	19.34	155	11.78	8.69	1.8	2.2	37	3	97	.09	5	.4	.5	28	SF3	
		17	18 2	2.37	19	13.50	155	32.28	6.91	2.4	2.2	32	3	81	.16	5	.5	.9	21	LSW	
		17	2027	49.24	19	17.52	155	13.05	6.21	1.6	1.3	28	2	128	.10	1	.6	1.0	25	SF2	
		18	543	59.52	19	58.49	155	8.24	31.30	4.0	4.2	46	4	262	.10	23	1.1	1.9	41	KEA	F
		18	921	46.81	19	19.43	155	9.75	8.17	2.0	2.2	38	4	96	.08	5	.4	.6	26	SF3	
		18	1823	21.68	19	19.38	155	11.96	5.42	1.4	1.1	25	1	94	.11	5	.5	1.6	21	SF3	
		18	1914	51.69	19	25.40	155	38.33	2.16	2.2	1.9	20	3	181	.10	5	.6	1.0	11	MLO	
		18	2342	11.16	19	21.16	155	1.87	6.70	1.8	1.1	31	2	162	.15	3	.5	.8	24	SF5	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	AUG	19	355	44.00	19	57.51	155	38.75	9.63	2.5	2.3	20	3	139	.06	23	.6	.6	14	KOH	
		19	511	51.76	19	16.84	155	28.20	6.63	1.2	1.2	28	3	55	.19	5	.5	1.1	19	LSW	
		19	2036	56.01	19	19.60	155	11.40	7.10	1.5	1.3	34	3	94	.11	5	.5	.9	26	SF3	
		19	2246	17.03	19	20.40	155	5.93	7.97	2.4	2.4	41	2	114	.10	5	.5	.5	33	SF4	
		19	2252	50.86	19	25.95	155	37.04	2.70	3.1	3.5	46	4	63	.14	3	.4	.7	35	MLO	
		20	740	30.00	19	19.74	155	9.60	7.69	1.7	1.3	18	1	88	.05	4	.5	.9	17	SF3	
		20	1856	27.27	19	19.82	155	12.56	6.76	1.3	1.1	33	3	79	.11	5	.5	.9	22	SF2	
		20	2213	10.10	19	24.63	155	29.40	7.76	1.8	1.1	31	1	64	.12	5	.4	.9	21	KAO	
		20	2217	40.06	19	24.64	155	29.19	8.31	1.8	1.5	36	3	63	.11	5	.4	.8	23	KAO	
		21	1744	8.96	19	21.44	155	2.31	8.19	2.1	1.8	36	3	142	.13	3	.7	.4	27	SF5	
		21	2147	29.50	19	20.23	155	12.00	29.77	1.6	1.4	38	1	78	.09	5	.7	1.2	31	DEP	
		21	2353	39.77	19	19.77	155	7.22	7.93	2.5	2.7	40	2	110	.10	5	.5	.5	31	SF4	
		22	353	38.08	19	21.21	155	6.84	8.06	2.9	3.1	45	2	87	.12	3	.4	.6	37	SF4	
		22	620	7.72	19	25.82	155	30.34	10.67	1.4	1.2	16	1	67	.10	8	.6	1.5	10	KAO	
		22	1241	19.81	19	25.75	155	37.73	2.18	1.5	1.8	22	1	95	.12	4	.5	1.1	19	MLO	
		22	1258	15.46	19	20.23	155	12.77	7.69	1.5	1.1	31	2	70	.07	4	.5	.7	20	SF2	
		22	1639	35.92	19	20.31	155	3.42	5.94	1.6	1.3	28	1	178	.14	7	.8	1.2	17	SF5	
		22	1657	7.56	19	40.64	155	4.52	1.01	.9	1.2	13	0	202	.13	29	1.3	16.4	5	HIL	*
		22	1857	45.30	19	23.16	155	2.85	8.17	1.4	1.2	28	1	152	.14	4	.7	.6	17	SF5	
		22	23	9 25.31	19	21.59	155	.75	7.49	2.0	1.5	31	0	193	.14	7	1.0	.8	26	SF5	
		22	2348	41.79	19	24.85	155	28.80	7.56	1.6	1.3	28	0	46	.09	5	.4	1.1	21	KAO	
		23	141	58.73	19	23.17	155	26.40	7.18	1.4	1.1	21	0	49	.12	2	.5	1.0	15	KAO	
		23	150	26.06	19	19.72	155	4.50	5.47	1.2	1.2	16	0	153	.06	5	.6	1.2	11	SF5	
		23	348	35.10	19	20.25	155	12.79	9.69	3.7	4.1	44	1	70	.10	4	.4	.3	40	SF2	F
		23	840	18.84	19	20.61	155	7.94	6.96	1.4	1.5	28	2	83	.09	4	.5	.9	24	SF4	
		23	1617	44.47	19	24.22	155	26.33	8.65	1.7	1.3	31	1	56	.11	3	.4	1.0	23	KAO	
		23	1713	47.24	19	19.79	155	10.50	6.86	1.5	1.3	29	1	91	.10	4	.5	.9	21	SF3	
		24	952	30.01	19	20.33	155	7.96	8.34	1.9	1.7	30	0	86	.06	5	.4	.7	23	SF4	
		24	1433	49.85	19	20.26	155	12.69	8.31	1.6	1.1	25	1	71	.11	4	.6	.8	16	SF2	
		24	15	7 42.87	19	24.43	155	25.12	8.23	1.8	1.7	39	2	34	.12	2	.4	.9	29	KAO	
		24	1531	29.01	19	20.00	155	11.83	7.36	1.8	2.2	40	1	83	.14	5	.5	.8	31	SF3	
		24	1634	16.77	19	20.43	155	12.98	7.18	1.6	1.5	31	1	66	.12	4	.5	.8	27	SF2	
		24	2238	51.03	19	21.83	155	24.99	10.03	2.8	3.2	44	4	39	.13	4	.4	.5	33	SWR	
		25	2	5 52.58	19	23.91	154	57.89	5.98	1.7	1.4	25	0	175	.14	3	.9	.9	13	LER	
		25	842	39.83	19	21.77	155	18.62	31.30	2.5	1.7	41	1	36	.11	4	.7	1.1	37	DEP	
		25	1755	38.86	19	20.38	155	8.94	6.34	1.2	1.2	28	0	99	.12	4	.6	1.2	25	SF4	
		25	1810	10.84	19	19.69	155	7.68	8.36	2.5	2.2	41	3	130	.10	4	.5	.5	33	SF4	
		25	1833	1.11	19	19.98	155	8.10	6.35	1.8	1.5	30	0	112	.11	5	.6	1.1	24	SF4	
		25	1835	21.61	19	19.52	155	7.46	7.68	1.9	1.8	33	1	137	.08	4	.6	.6	28	SF4	
		26	042	2.08	19	19.45	155	8.88	5.50	1.8	1.5	18	0	123	.08	4	.8	2.1	17	SF4	
		26	351	12.53	19	25.28	155	38.21	2.12	2.2	1.4	14	2	178	.11	5	.7	1.2	11	MLO	
		26	531	18.74	19	15.95	155	19.63	39.87	1.9	1.7	38	0	150	.10	4	.9	1.5	34	DEP	
		26	623	52.10	19	25.29	155	37.45	1.35	3.4	3.1	36	2	74	.14	4	.4	1.0	30	MLO	
		26	722	58.90	19	25.34	155	29.26	6.88	2.0	1.4	30	1	62	.11	6	.4	1.5	24	KAO	
		26	1813	42.53	19	23.19	155	2.28	8.08	2.0	1.7	32	1	163	.15	4	.8	.5	22	SF5	
		26	2357	10.43	19	21.95	155	25.72	11.28	1.5	1.3	32	1	44	.10	3	.4	.8	24	KAO	
		27	111	38.69	19	19.58	155	11.89	6.78	1.4	1.1	31	1	91	.10	5	.5	.9	20	SF3	
		27	4	7 34.42	19	20.11	155	8.69	7.80	1.5	1.7	36	0	73	.10	4	.5	.7	26	SF4	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	AUG	27	1759	59.74	19	19.90	155	7.89	5.43	1.4	1.1	22	0	124	.13	5	.6	1.6	16	SF4	
		27	1846	12.94	19	21.07	155	7.72	5.56	1.3	1.1	22	1	120	.19	4	.9	1.7	18	SF4	
		27	1955	33.28	19	45.38	155	6.12	41.81	2.1	1.7	39	2	187	.12	10	.8	2.0	35	HIL	
		27	2331	32.70	19	22.66	155	25.04	9.53	1.8	1.7	36	2	40	.10	5	.4	.7	30	KAO	
		27	2352	44.18	19	20.22	155	11.30	6.08	1.7	1.6	36	1	81	.13	4	.5	.9	30	SF3	
		28	020	23.12	19	20.40	155	10.64	6.52	1.4	1.3	20	2	83	.11	3	.6	1.2	15	SF3	
		28	341	40.43	19	20.49	155	10.65	8.29	1.2	1.1	15	1	82	.03	3	.6	1.3	14	SF3	
		28	342	52.77	19	20.50	155	10.58	9.01	1.6	1.3	20	2	83	.04	3	.6	.9	17	SF3	
		28	734	.63	19	18.62	155	18.01	32.55	3.1	3.1	43	1	112	.10	2	.7	1.1	41	DEP	
		28	828	51.50	19	20.03	155	11.80	7.24	1.4	1.3	29	0	82	.11	5	.5	1.0	22	SF3	
		28	1546	17.34	19	22.66	155	1.12	8.23	2.0	1.2	30	1	178	.15	6	1.1	.7	19	SF5	
		28	1642	25.80	19	20.12	155	3.85	5.86	1.4	1.1	21	1	184	.11	7	1.0	1.8	11	SF5	
		28	18	0 53.04	19	19.66	155	11.60	7.26	1.3	1.1	27	1	91	.10	5	.5	1.0	19	SF3	
		28	1918	35.27	19	17.41	155	21.36	5.73	1.7	1.8	33	0	126	.14	5	.4	1.1	30	SWR	
		29	921	37.98	19	18.98	155	50.08	5.74	2.6	1.8	28	1	145	.19	7	.8	1.4	16	KON	
		29	1212	12.81	19	19.50	155	11.80	5.40	1.4	1.1	27	1	93	.13	5	.5	1.3	23	SF3	
		30	738	5.95	19	16.64	155	22.86	5.28	1.9	2.1	35	3	119	.13	5	.4	1.2	29	SWR	
		30	2248	3.43	19	18.28	155	17.63	33.23	2.6	2.4	46	1	121	.10	2	.7	1.0	44	DEP	
		31	145	35.76	18	54.78	155	14.68	11.69	3.1	3.8	35	0	248	.11	36	2.0	.8	22	LOI	L
		31	150	23.14	18	52.97	155	15.37	10.79	2.4	2.5	25	0	252	.14	38	2.7	.9	13	LOI	L
		31	2	2 12.80	18	54.22	155	15.76	13.10	2.6	2.7	23	0	257	.13	35	2.9	1.2	10	LOI	L
		31	2	8 58.40	18	56.01	155	16.57	12.37	2.3	2.9	27	0	246	.12	32	2.1	.7	11	LOI	L
		31	211	41.56	18	54.16	155	15.20	11.38	2.6	2.4	16	0	266	.11	36	3.2	.9	9	LOI	L
		31	250	2.66	18	52.31	155	14.85	9.77	2.5	2.9	30	0	255	.14	39	2.7	.9	10	LOI	L
		31	652	19.00	19	19.97	155	11.59	6.73	2.1	2.0	42	2	85	.13	5	.5	.7	35	SF3	
		31	654	21.50	19	19.35	155	11.64	6.43	1.1	1.1	23	1	98	.10	5	.6	1.4	19	SF3	
		31	912	40.56	19	22.13	155	.75	3.43	1.9	1.3	22	1	165	.17	6	.7	2.0	15	SSF	
		31	1348	48.85	19	23.35	155	27.78	6.71	1.8	1.5	26	1	47	.12	2	.4	1.1	23	KAO	
		31	1434	18.95	19	21.74	155	25.34	9.51	1.7	1.5	32	2	45	.13	4	.4	.8	27	KAO	
		31	1739	5.97	19	19.15	155	13.86	4.95	.9	1.1	30	2	65	.14	4	.4	1.5	21	SSF	
SEP		1	110	34.79	19	19.57	155	12.16	5.41	1.6	1.5	40	2	87	.12	5	.4	1.0	31	SF3	
		1	250	3.55	19	59.01	155	35.94	42.09	2.3	1.8	43	2	166	.09	25	.8	2.1	40	KOH	
		1	917	21.65	18	50.78	155	17.30	12.84	1.9	1.7	22	0	267	.12	39	3.2	2.0	18	LOI	
		1	1758	3.18	19	26.67	155	50.49	8.55	1.6	1.5	24	1	113	.15	9	.6	.9	18	KON	
		1	2033	53.19	19	20.76	155	18.44	32.24	2.1	1.8	45	1	56	.10	2	.7	1.0	39	DEP	
		1	2135	11.75	19	21.29	155	6.53	6.82	1.9	1.5	32	0	88	.13	3	.6	1.0	22	SF4	
		1	2145	26.78	19	20.44	155	11.46	8.28	2.4	2.5	44	2	77	.12	4	.4	.6	32	SF3	
		1	2156	33.83	19	17.89	155	12.99	6.39		1.2	26	1	112	.10	2	.6	1.1	22	SF2	
		1	2235	55.88	19	17.14	155	20.81	6.88	1.6	2.2	43	5	132	.14	4	.5	.8	32	SWR	
		1	2250	20.67	19	24.71	155	38.77	.02	2.3	2.1	20	1	110	.22	6	.7	1.2	13	MLO	*
		2	11	2 9.59	19	22.29	155	27.96	7.77	1.7	1.6	28	0	42	.12	1	.4	1.0	24	KAO	
		2	1225	14.55	19	17.41	155	15.21	6.65	1.2	1.1	24	1	148	.09	3	.6	1.0	20	SF1	
		2	1236	10.57	19	19.77	155	12.42	6.28	1.1	1.1	29	1	81	.11	5	.5	1.0	21	SF2	
		2	1657	11.05	19	16.69	155	21.69	7.14	1.8	1.5	31	1	133	.13	6	.5	1.1	27	SWR	
		2	1910	46.92	19	30.27	155	39.23	6.83	2.3	1.6	35	4	80	.13	6	.5	.9	25	MLO	
		2	2047	39.39	19	29.89	155	39.27	7.04	1.6	1.2	22	2	98	.10	6	.5	.8	17	MLO	
		3	044	13.36	19	30.24	155	39.20	8.40	2.3	1.6	30	1	80	.13	6	.5	.8	21	MLO	
		3	140	33.35	19	39.38	156	7.48	41.46	3.2	3.0	44	1	246	.10	29	1.1	1.8	41	HUA	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	SEP	3	4 1	8.75	19	28.82	155	35.94	2.59	2.6	2.6	31	0	78	.09	1	.4	.3	20	MLO
		3	1223	11.68	19	30.28	155	39.63	8.42	2.8	2.6	34	1	84	.12	7	.5	.7	25	MLO
		3	1416	50.58	19	16.95	155	21.01	5.26	1.0	1.3	24	3	139	.09	5	.4	1.3	17	SWR
		3	17 4	47.00	19	29.73	155	38.98	7.02	2.7	2.7	35	4	78	.14	5	.6	.9	29	MLO
		3	1841	21.74	19	30.35	155	39.44	6.99	1.6	1.1	26	2	77	.13	6	.5	1.1	18	MLO
		3	1843	43.33	19	30.35	155	39.21	7.98	1.3	1.1	21	3	100	.12	6	.6	1.0	19	MLO
		3	1921	47.06	19	30.86	155	39.40	7.15	2.8	2.8	42	2	52	.15	7	.4	.8	30	MLO
		3	1933	41.51	19	30.48	155	39.54	6.69	1.6	1.2	27	3	77	.13	7	.5	.9	22	MLO
		3	1955	17.58	19	30.02	155	39.24	5.90	2.4	1.9	33	3	78	.14	6	.5	.9	25	MLO
		3	2123	7.30	19	30.28	155	39.58	8.11	2.7	2.8	35	3	76	.12	7	.4	.7	23	MLO
		4	336	51.21	19	21.32	155	2.80	5.91	1.9	1.5	33	2	126	.18	3	.6	1.0	25	SFS
		4	339	35.95	19	21.43	155	2.68	5.72	1.5	1.1	24	1	137	.14	3	.7	1.2	21	SFS
		4	1214	5.10	19	19.93	155	6.81	5.75	1.3	1.1	25	0	113	.11	5	.6	1.5	19	SF4
		4	1235	9.55	19	19.34	155	11.66	6.30	1.2	1.1	25	1	98	.09	5	.5	1.2	22	SF3
		4	13 2	28.75	19	30.44	155	39.29	8.30	2.7	2.7	32	5	77	.14	6	.4	.8	20	MLO
		4	14 7	35.13	19	26.44	155	36.15	3.22	2.6	2.4	26	1	59	.11	2	.4	.5	16	MLO
		4	1617	38.33	19	18.82	155	28.88	8.28	1.3	1.1	22	0	64	.14	7	.5	1.4	16	LSW
		5	047	30.88	19	22.84	155	27.06	7.63	1.4	1.1	32	2	40	.12	1	.4	.9	23	KAO
		5	058	20.53	19	30.55	155	38.70	9.51	1.5	1.2	22	3	102	.15	5	.6	.9	15	MLO
		5	650	10.34	19	22.88	155	24.08	9.50	1.6	1.4	39	4	38	.13	5	.4	.7	33	KAO
		5	748	58.99	19	30.33	155	39.38	7.59	2.3	1.6	30	2	77	.13	6	.5	.9	21	MLO
		5	1256	43.77	19	21.67	155	24.73	9.21	1.7	1.1	30	2	44	.11	4	.4	.6	24	SWR
		5	13 0	4.38	19	20.26	155	7.32	7.16	1.3	1.3	32	2	98	.10	5	.5	.8	27	SF4
		5	1624	22.39	19	20.55	155	3.99	5.23	2.4	2.5	38	5	108	.13	2	.5	1.0	30	SFS
		5	1642	26.37	19	24.51	155	24.91	9.72	1.9	1.5	39	3	36	.11	1	.4	.6	31	KAO
		5	2227	44.70	19	20.39	155	12.75	10.44	3.5	3.7	45	2	69	.10	4	.5	.4	43	SF2 F
		5	2358	41.71	19	19.46	155	11.58	6.52	1.1	1.1	33	1	96	.11	6	.5	1.0	24	SF3
		6	356	41.02	19	30.38	155	39.24	7.67	3.3	3.4	42	1	96	.12	6	.5	.6	37	MLO
		6	544	18.62	19	20.51	155	12.54	6.88	1.6	1.5	30	1	69	.13	4	.5	.9	24	SF2
		6	1055	23.03	19	41.12	155	4.01	5.90	2.4	2.5	22	0	189	.16	31	1.1	3.0	9	HIL B
		6	16 0	18.51	19	21.50	155	1.10	6.70	1.9	1.1	31	3	179	.19	4	.8	.9	21	SFS
		7	5 9	10.02	19	20.45	155	17.86	39.29	3.5	4.3	50	5	68	.11	1	.6	1.0	45	DEP F
		7	529	25.43	19	20.37	155	12.86	7.09	2.0	1.9	24	2	67	.11	4	.5	1.1	22	SF2
		7	1039	29.15	19	19.43	155	13.43	7.78	1.9	2.1	40	0	70	.11	4	.5	.7	31	SF2
		7	1244	.79	19	19.65	155	11.56	7.95	1.4	1.1	26	1	92	.10	5	.6	1.1	22	SF3
		7	1711	17.38	19	23.87	155	23.80	10.61	1.8	1.5	36	3	33	.10	4	.4	.6	26	KAO
		7	2025	26.11	19	23.59	155	25.28	7.68	1.9	1.6	37	1	37	.11	3	.4	1.0	27	KAO
		7	2141	34.36	19	19.29	155	8.80	5.66	1.3	1.1	26	2	86	.10	4	.5	1.4	17	SF4
		8	027	9.42	19	30.37	155	39.04	8.36	2.3	2.2	25	4	77	.14	6	.5	.8	19	MLO
		8	1723	9.26	19	29.99	155	39.88	6.77	1.1	.7	16	4	104	.08	7	.5	1.1	12	MLO
		8	1731	59.21	19	30.44	155	39.46	8.60	1.4	1.1	19	3	101	.13	7	.6	1.1	16	MLO
		8	1820	52.27	19	27.00	154	53.38	5.10	1.4	1.0	16	2	153	.12	3	.9	1.0	13	LER
		8	2026	34.88	19	19.62	155	7.39	8.44	2.1	1.8	44	5	109	.10	4	.4	.5	26	SF4
		8	2250	51.20	19	30.60	155	39.30	6.93	2.6	2.0	30	7	78	.16	6	.4	1.1	21	MLO
		8	2323	56.08	19	30.82	155	39.21	8.75	1.3	1.0	17	5	105	.13	6	.6	1.0	13	MLO
		8	2332	17.81	19	29.96	155	39.81	5.90	1.4	1.2	18	4	103	.07	7	.5	1.3	13	MLO
		9	018	6.06	19	19.41	155	10.71	8.11	1.8	1.1	26	0	100	.09	5	.6	1.0	26	SF3
		9	042	57.53	19	30.51	155	39.02	9.57	1.2	1.0	15	2	102	.14	6	.8	1.2	9	MLO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	SEP	9	134	14.06	19	19.27	155	9.58	5.44	1.4	1.2	28	2	98	.11	5	.5	1.4	24	SF3
		9	226	50.26	19	30.70	155	39.06	10.05	1.1	.9	10	2	277	.10	6	2.3	1.0	7	MLO
		9	630	55.35	19	19.89	155	7.32	9.02	5.4	5.2	46	1	105	.10	5	.5	.4	45	SF4 F
		9	637	44.00	19	21.56	155	6.66	7.37	2.6	2.6	36	4	82	.12	3	.4	.6	27	SF4
		9	644	59.02	19	19.86	155	9.28	5.21	1.8	1.1	24	3	82	.11	4	.5	1.4	19	SF3
		9	726	20.73	19	18.00	155	6.87	3.77	1.4	1.0	15	1	176	.09	2	1.2	.8	12	SSF
		9	739	9.55	19	20.99	155	10.76	8.70	1.7	1.1	20	2	70	.09	3	.5	.7	12	SF3
		9	757	37.76	19	19.95	155	7.81	6.34	2.1	1.7	31	3	94	.11	5	.5	1.1	20	SF4
		9	847	40.63	19	19.98	155	8.41	6.52	1.6	1.1	21	3	80	.11	5	.5	1.1	15	SF4
		9	9 3	1.68	19	21.14	155	7.01	7.37	1.9	1.7	35	3	87	.12	4	.4	.7	27	SF4
		9	914	29.63	19	19.77	155	6.03	3.96	2.0	1.6	34	1	131	.17	5	.6	2.1	20	SSF
		9	925	49.02	19	19.42	155	13.69	6.83	2.0	1.8	43	5	64	.11	4	.4	.7	35	SF2
		9	1027	33.74	19	20.29	155	3.58	8.19	2.8	3.0	44	4	114	.10	1	.6	.5	35	SFS
		9	1116	12.50	19	20.64	155	4.03	7.49	2.6	2.9	49	5	105	.12	2	.5	.4	36	SFS
		9	1143	27.31	19	20.52	155	11.45	7.28	1.7	1.2	34	2	76	.11	4	.5	.7	25	SF3
		9	1348	27.69	19	20.08	155	7.65	7.78	2.0	1.9	35	2	95	.10	5	.5	.6	27	SF4
		9	14 9	17.02	19	19.91	155	8.68	7.77	1.3	1.1	27	2	76	.10	5	.6	1.0	18	SF4
		9	15 1	44.11	19	27.10	155	28.30	9.30	2.7	2.6	45	4	46	.11	7	.3	.6	37	KAO
		9	1744	4.92	19	30.48	155	39.62	6.46	3.1	3.0	39	3	102	.13	7	.5	1.0	24	MLO
		9	19 4	56.78	19	20.08	155	7.35	7.91	1.7	1.5	30	1	100	.08	5	.5	.7	23	SF4
		9	2028	12.23	19	10.03	155	37.86	8.52	2.6	2.2	33	3	115	.13	9	.4	.8	21	LSW
		9	23 2	43.70	19	21.36	155	6.45	5.62	1.3	1.3	26	1	87	.16	3	.6	1.4	17	SF4
		10	229	19.53	19	20.69	155	12.94	7.79	1.1	1.3	30	2	63	.11	4	.5	.8	24	SF2
		10	549	44.90	19	23.02	155	2.44	6.55	1.2	1.1	24	1	130	.10	4	.5	.8	14	SFS
		10	7 2	28.31	19	20.40	155	12.85	6.28	1.6	1.5	36	2	67	.14	4	.5	.8	29	SF2
		10	810	49.07	19	17.93	155	13.28	6.71	1.4	1.3	30	3	95	.09	2	.5	.8	19	SF2
		10	840	25.93	19	20.83	155	3.32	6.48	1.6	1.1	29	2	98	.11	2	.5	.9	15	SFS
		10	13 9	1.75	19	19.86	155	12.20	7.24	1.3	1.1	21	1	81	.10	5	.6	1.1	16	SF3
		10	1614	24.57	19	27.69	155	26.63	10.77	1.8	1.2	35	2	49	.11	5	.4	.7	24	KAO
		10	1927	41.33	19	19.71	155	3.34	4.96	2.0	1.7	28	2	181	.13	1	.6	.8	18	SSF
		10	2056	24.52	19	20.48	155	12.86	7.83	1.6	1.6	35	2	66	.11	4	.5	.6	23	SF2
		10	2117	42.72	19	20.50	155	12.82	7.88	1.6	1.5	31	2	66	.11	4	.5	.6	22	SF2
		10	2146	13.23	19	30.58	155	39.50	7.96	2.3	1.9	33	2	97	.11	7	.5	.8	24	MLO
		10	2235	14.70	19	20.05	155	13.06	6.33		1.1	29	1	69	.14	5	.5	1.2	26	SF2
		11	14 1	39.02	19	19.76	155	11.30	5.15	1.7	1.5	33	1	90	.11	6	.4	1.3	26	SF3
		11	1513	14.77	19	31.12	155	39.28	6.55	2.9	2.8	38	6	80	.17	7	.4	.9	21	MLO
		11	1931	21.62	19	20.57	155	12.79	7.40	1.6	1.1	26	1	66	.11	4	.5	.9	19	SF2
		11	2020	2.96	19	30.66	155	43.21	.71	1.1	1.1	14	1	74	.18	5	.7	1.8	12	KON
		11	2145	51.48	19	25.61	155	37.26	2.65	2.2	1.3	13	3	89	.15	4	.8	.9	11	MLO
		11	2214	23.25	19	19.97	155	12.16	6.98	1.6	1.4	34	2	80	.11	5	.5	.7	25	SF3
		11	23 2	28.57	19	30.17	155	39.23	8.70	1.3	1.0	19	3	100	.16	6	.7	1.1	12	MLO
		11	23 3	19.07	19	30.06	155	39.12	9.22	1.5	1.1	17	3	99	.15	6	.6	1.2	11	MLO
		11	23 6	40.80	19	30.10	155	39.01	8.31	1.5	1.2	17	3	99	.13	6	.6	1.1	14	MLO
		12	019	54.37	19	19.45	155	6.60	7.67	1.9	1.8	34	1	130	.09	5	.5	.6	22	SF4
		12	020	53.06	19	22.06	155	23.96	7.53	1.3	1.1	19	1	39	.10	4	.5	1.2	16	KAO
		12	332	15.30	19	19.37	155	13.05	4.99	1.2	1.3	30	1	78	.12	4	.5	1.7	25	SSF
		12	351	59.17	19	30.23	155	38.81	9.87	1.2	1.0	12	3	128	.08	5	.7	1.2	12	MLO
		12	5 1	14.54	19	29.86	155	39.58	6.12	2.4	1.9	30	5	78	.12	6	.4	1.0	21	MLO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	SEP	12	551	55.91	19	30.48	155	39.50	7.24	2.3	1.6	22	4	102	.13	7	.5	1.1	16	MLO
		12	639	18.11	19	20.82	155	24.40	10.79	1.3	1.1	29	2	57	.14	2	.5	.9	20	SWR
		12	727	51.11	19	20.16	155	9.24	6.97	1.2	1.3	23	2	76	.11	4	.6	1.1	18	SF3
		12	8	8 .34	19	30.01	155	39.81	5.46	2.6	1.6	26	5	78	.12	7	.4	1.4	16	MLO
		12	9	0 18.85	19	30.39	155	39.36	6.04	2.3	1.3	28	4	77	.17	6	.5	1.3	17	MLO
		12	1513	.94	19	19.88	155	6.58	7.77	1.4	1.3	30	2	119	.11	5	.6	.8	26	SF4
		12	1552	52.84	19	19.66	155	7.85	7.83	2.0	1.8	37	2	97	.10	4	.4	.7	22	SF4
		12	16	4 59.42	19	20.86	155	7.83	8.25	2.1	2.4	39	4	81	.10	4	.4	.6	30	SF4
		12	1612	58.71	19	21.19	155	8.27	8.10	2.1	2.4	35	4	71	.11	3	.4	.7	23	SF4
		12	1859	37.16	19	30.18	155	39.83	7.75	3.3	3.4	43	4	99	.11	7	.4	.6	30	MLO
		12	2130	50.18	19	23.64	155	27.99	5.73	1.5	1.4	20	1	54	.11	2	.5	1.2	18	KAO
		13	152	42.69	19	30.11	155	39.14	7.96	2.2		22	2	99	.13	6	.5	1.0	16	MLO
		13	153	38.43	19	30.19	155	39.18	7.55	2.5	1.9	36	4	76	.15	6	.4	.8	23	MLO
		13	3	3 49.03	19	29.81	155	39.63	5.42	1.3	1.0	21	4	97	.15	7	.5	1.3	16	MLO
		13	340	45.21	19	55.30	155	36.04	13.14	2.5	2.4	29	2	136	.14	22	.8	.8	20	KOH
		13	548	57.63	19	30.28	155	38.79	7.52	2.1	1.6	30	4	94	.18	5	.6	1.0	23	MLO
		13	725	8.99	19	29.20	155	38.29	.37	2.2	1.4	11	0	213	.08	4	1.0	1.6	6	MLO
		13	739	31.74	19	30.26	155	39.15	7.46	2.3	1.6	27	4	96	.12	6	.5	.8	19	MLO
		13	754	23.62	19	17.21	155	47.65	8.66	2.5	1.6	30	0	97	.18	8	.7	1.0	20	KON
		13	924	7.63	19	18.46	155	29.12	12.15	2.0	1.2	34	0	42	.11	7	.4	.7	30	LSW
		13	1215	42.22	19	19.85	155	9.99	6.60	1.5	1.3	27	3	116	.11	4	.6	1.1	18	SF3
		13	1537	20.03	19	29.71	155	39.44	6.04	2.5		34	4	97	.12	6	.4	.9	23	MLO
		13	1636	59.96	19	30.42	155	39.27	8.38	2.3	2.2	29	1	96	.13	6	.6	.9	21	MLO
		13	1748	39.72	19	20.34	155	4.01	6.19	2.3	2.6	41	4	120	.11	2	.4	.6	27	SF5
		13	19	3 56.26	19	20.35	155	12.28	7.64	1.9	1.9	43	3	73	.13	4	.4	.6	34	SF3
		13	1939	57.53	19	21.25	155	3.14	8.89	4.0	4.0	50	1	110	.11	3	.6	.4	48	SF5 F
		13	1943	43.11	19	21.09	155	3.21	6.24	2.2	2.4	43	2	107	.13	2	.5	.7	33	SF5
		13	2222	8.86	19	29.88	155	39.11	6.53	2.6	2.1	32	4	96	.14	6	.5	.9	17	MLO
		13	23	3 22.82	19	20.87	155	13.13	7.27	1.9	2.3	43	2	60	.15	3	.5	.6	38	SF2
		13	2333	31.72	19	29.51	155	39.46	6.54	2.6	2.9	33	3	97	.13	6	.5	.8	24	MLO
		14	049	25.86	19	30.34	155	38.86	6.79	2.5	2.5	38	3	94	.13	5	.5	.8	26	MLO
		14	2	6 57.18	19	29.45	155	38.96	7.21	2.3	2.3	35	2	94	.12	5	.4	.7	26	MLO
		14	216	51.74	19	29.60	155	39.25	5.83	1.9	1.6	31	4	96	.13	6	.5	.9	25	MLO
		14	227	18.70	19	29.85	155	39.49	6.14	1.9	1.6	31	4	97	.12	6	.4	.8	24	MLO
		14	254	59.83	19	30.58	155	39.58	5.02	2.7	3.0	43	4	97	.17	7	.5	1.5	32	MLO
		14	515	59.32	19	17.96	155	13.29	6.21	1.4	1.1	34	2	95	.10	2	.5	.9	28	SF2
		14	523	2.39	19	21.13	155	1.35	6.60	1.8	1.7	34	4	176	.14	4	.6	.5	21	SF5
		14	557	18.28	19	46.17	155	34.48	16.86	2.3	2.3	41	5	89	.09	12	.5	1.4	40	KEA
		14	6	6 17.44	19	16.90	155	26.72	8.94	1.3	1.3	29	1	54	.13	7	.4	.8	21	LSW
		14	643	43.50	19	30.26	155	39.32	8.05	3.5	3.6	46	3	96	.13	6	.4	.5	37	MLO F
		14	656	22.89	19	29.64	155	39.06	6.24	2.2	1.7	34	3	95	.12	5	.5	.8	26	MLO
		14	710	36.58	19	29.93	155	39.23	6.54	2.4	1.7	34	3	98	.13	6	.5	.9	23	MLO
		14	720	23.56	19	29.91	155	39.19	6.40	1.9	1.4	34	2	98	.14	6	.5	.8	26	MLO
		14	854	23.82	19	30.11	155	39.28	5.99	2.2	1.6	30	1	76	.13	6	.4	1.1	27	MLO
		14	855	58.36	19	30.65	155	39.24	7.70	3.0	3.5	42	2	51	.12	6	.4	.6	32	MLO
		14	921	18.93	19	30.23	155	39.17	6.57	2.3	1.6	27	3	80	.13	6	.5	1.0	23	MLO
		14	955	24.11	19	30.12	155	39.11	5.31	2.3	2.1	38	5	76	.13	6	.4	1.3	32	MLO
		14	10	7 55.96	19	30.26	155	39.28	6.12	2.4	2.5	34	3	80	.13	6	.5	1.1	30	MLO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	SEP	14	1016	41.32	19	29.64	155	39.13	6.57	2.5	2.6	39	5	74	.15	6	.5	.8	30	MLO
		14	1045	.48	19	30.19	155	39.27	6.44	2.3	1.4	25	2	80	.14	6	.5	1.1	22	MLO
		14	1048	32.26	19	18.17	155	13.28	8.09	1.5	1.5	31	3	90	.07	2	.5	.7	29	SF2
		14	1129	14.75	19	19.88	155	7.72	8.26	2.1	2.3	39	2	97	.09	5	.4	.7	35	SF4
		14	1258	17.08	19	31.02	155	39.51	7.03	2.1	2.3	30	6	129	.13	7	.5	1.1	29	MLO
		14	13	0 15.20	19	21.43	155	3.03	8.41	3.6	3.7	49	4	115	.10	3	.5	.4	43	SF5 F
		14	1312	48.23	19	20.55	155	2.90	8.00	2.3	2.3	42	5	126	.12	1	.5	.4	37	SF5
		14	1337	17.09	19	30.46	155	39.48	7.78	3.7	4.1	44	3	51	.13	7	.4	.6	41	MLO
		14	1346	50.34	19	29.97	155	39.01	6.97	1.9	2.0	24	6	95	.14	6	.5	.8	23	MLO
		14	1415	39.25	19	29.46	155	39.17	6.15	2.0	1.6	31	6	96	.14	6	.6	.8	30	MLO
		14	1444	3.66	19	29.88	155	39.29	6.45	2.3	2.0	39	6	75	.14	6	.4	.7	36	MLO
		14	15	8 57.41	19	30.15	155	39.09	6.62	1.9	1.6	29	4	95	.13	6	.4	.8	20	MLO
		14	1554	12.11	19	29.82	155	38.96	6.91	2.1	1.6	31	1	94	.14	5	.5	.9	21	MLO
		14	17	2 48.76	19	29.72	155	39.25	6.94	2.1	1.5	23	2	96	.14	6	.5	1.6	18	MLO
		14	1727	44.33	19	30.03	155	39.40	5.12	2.3	2.1	38	4	75	.14	6	.4	1.2	29	MLO
		14	2014	35.17	19	24.69	155	34.02	4.91	1.0	1.1	10	1	83	.14	2	.7	1.2	6	MLO
		14	2239	31.17	19	20.30	155	12.00	8.63	2.4	3.0	43	2	76	.13	5	.4	.5	35	SF3
		14	2356	35.59	19	29.93	155	39.30	6.17	2.3	1.7	35	3	96	.14	6	.4	.8	25	MLO
		15	124	15.89	19	19.46	155	6.84	3.84	1.4	1.3	22	0	125	.13	4	.6	1.8	17	SSF
		15	221	39.95	19	11.85	155	27.80	7.12	1.9	1.8	34	0	109	.14	4	.5	.9	28	LSW
		15	338	30.48	19	30.31	155	38.97	6.13	2.3	1.4	26	4	94	.19	6	.5	1.4	21	MLO
		15	342	.71	19	22.54	155	1.87	5.16	2.0	1.5	35	4	137	.20	5	.6	1.6	22	SF5
		15	6	9 52.95	19	30.12	155	38.61	8.74	1.5	1.2	21	1	99	.14	5	.6	1.1	16	MLO
		15	7	4 28.19	19	30.52	155	37.88	8.76	1.4	1.4	14	1	158	.11	4	.8	1.0	12	MLO
		15	923	43.38	19	26.38	155	27.53	7.53	2.2	1.8	40	4	41	.12	5	.3	.8	33	KAO
		15	1659	22.88	19	18.70	155	8.49	6.63	1.7	1.3	38	3	92	.10	3	.5	.9	26	SF4
		15	1819	20.17	19	11.92	155	28.38	8.16	2.2	1.4	30	1	113	.14	5	.5	.9	23	LSW
		15	1838	20.80	19	23.95	155	29.85	9.03	1.6	1.1	23	0	59	.08	5	.4	1.2	19	KAO
		15	1858	28.27	19	30.46	155	39.33	8.51	2.3	1.4	23	4	77	.14	6	.5	1.1	20	MLO
		15	22	3 39.51	19	18.94	155	13.74	6.60	1.5	1.1	34	3	74	.12	4	.4	.7	25	SF2
		15	2222	20.56	19	29.61	155	39.17	5.43	2.3	1.9	36	5	74	.15	6	.4	.8	29	MLO
		15	2315	36.69	19	29.98	155	38.83	6.51	2.3	1.7	33	3	75	.17	5	.5	1.1	25	MLO
		15	2319	21.74	19	29.92	155	38.97	6.93	1.4	1.2	19	1	75	.12	5	.5	1.0	14	MLO
		15	2322	39.52	19	29.33	155	38.94	6.02	2.4	1.4	32	3	92	.13	5	.5	.9	25	MLO
		15	2323	9.34	19	19.15	155	13.27	7.80	1.9	1.5	31	1	76	.11	4	.5	.6	23	SF2
		16	138	4.88	19	29.78	155	38.98	6.62	2.2	1.5	34	3	78	.14	5	.4	.9	24	MLO
		16	459	52.63	19	20.53	155	11.59	7.09	2.0	1.9	40	1	75	.12	4	.4	.7	32	SF3
		16	7	0 56.46	19	29.80	155	39.33	6.43	2.5	2.6	29	2	78	.13	6	.5	1.0	22	MLO
		16	922	12.22	19	30.19	155	39.19	7.68	4.0	4.1	46	2	50	.12	6	.4	.6	43	MLO F
		16	937	21.05	19	29.50	155	39.01	6.63	2.1	1.6	30	1	95	.11	5	.5	.8	25	MLO
		16	958	.49	19	29.41	155	39.03	7.98	2.7	2.5	35	2	76	.11	5	.4	.6	26	MLO
		16	959	42.56	19	19.45	155	11.09	6.59	1.4	1.3	31	1	98	.10	5	.5	1.0	23	SF3
		16	1024	3.88	19	29.78	155	39.14	6.03	2.5	2.2	33	3	78	.14	6	.5	.9	25	MLO
		16	1026	33.02	19	18.25	155	13.44	8.08	2.3	2.4	43	2	82	.11	2	.4	.5	35	SF2
		16	13	0 9.47	19	20.63	155	9.72	7.22	1.2	1.1	30	2	72	.10	3	.5	.8	17	SF3
		16	1323	18.68	19	17.47	155	13.91	6.33	1.8	1.5	27	1	117	.09	1	.6	.8	16	SF2
		16	15	9 53.21	19	30.08	155	39.06	8.23	4.2	4.2	45	1	50	.13	6	.4	.5	44	MLO F
		16	1512	22.82	19	29.34	155	38.92	6.08	2.3	2.1	33	4	93	.13	5	.5	.9	27	MLO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	SEP	16	16 9	50.18	19	22.57	155	24.33	10.02	2.6	2.6	48	3	27	.14	5	.3	.5	42	KAO
		16	1658	9.04	19	20.59	155	8.26	7.00	1.9	1.6	31	3	77	.09	4	.4	.9	21	SF4
		17	322	3.55	19	20.28	155	12.69	7.69	1.6	1.5	33	1	70	.11	4	.4	.7	24	SF2
		17	6 3	39.57	19	29.46	155	38.99	6.01	2.1	1.6	30	3	95	.15	5	.5	.9	24	MLO
		17	11 7	35.04	19	20.40	155	11.13	7.36	1.3	1.5	27	2	79	.11	4	.6	.9	22	SF3
		17	1828	9.01	19	30.02	155	38.68	8.77	2.3	1.4	22	1	76	.14	5	.5	1.0	16	MLO
		17	2053	17.99	19	19.22	155	8.88	6.35	1.4	1.3	29	1	89	.13	4	.6	1.2	21	SF4
		17	2131	5.10	19	29.19	155	38.96	6.46	2.4	2.1	31	4	91	.13	5	.5	.7	22	MLO
		17	2242	27.90	19	29.29	155	38.99	5.72	2.3	1.9	32	3	92	.14	5	.5	1.0	24	MLO
		17	2328	29.07	19	22.05	155	.07	6.38	3.5	4.0	46	3	175	.12	6	.6	.5	41	SF5
		18	247	41.46	19	22.01	154	59.51	4.40	1.8	1.7	27	0	183	.16	6	.9	2.3	19	SLE
		18	429	31.69	19	29.38	155	38.82	5.78	2.3	1.6	28	5	94	.11	5	.5	.8	25	MLO
		18	436	39.96	19	26.51	155	27.38	8.58	2.2	1.7	45	4	42	.12	5	.4	.7	36	KAO
		18	6 5	32.92	19	21.93	155	4.94	7.22	1.9	1.7	38	2	76	.14	3	.5	.6	26	SF5
		18	1122	6.31	19	29.79	155	39.12	6.29	1.6	1.2	33	3	74	.15	6	.4	.9	22	MLO
		18	13 5	18.21	19	21.82	155	28.40	5.93	2.4	2.3	39	3	43	.12	2	.4	1.0	31	KAO
		18	1429	5.62	19	23.06	155	17.00	12.82	2.4	2.5	50	3	38	.12	1	.4	.3	42	INT
		18	1840	52.63	19	11.61	155	29.09	32.89	2.5	1.9	39	0	77	.08	4	.7	1.5	35	DLS
		19	2 4	9.27	19	30.65	155	39.18	8.10	1.6	1.2	19	2	95	.13	6	.5	1.1	13	MLO
		19	231	25.32	19	19.36	155	11.98	6.88	1.7	1.4	40	3	95	.11	5	.4	.7	24	SF3
		19	4 8	30.66	19	21.84	154	59.82	5.05	2.0	2.1	33	1	182	.12	6	.7	.8	23	LER
		19	722	57.67	19	21.93	154	59.68	3.53	1.7	1.6	22	0	182	.15	6	.9	2.3	17	SLE
		19	1029	19.00	19	19.94	155	8.86	7.99	1.6	1.3	31	2	76	.09	4	.5	.8	23	SF4
		19	1523	43.53	19	21.51	155	1.62	5.19	1.7	1.1	25	1	168	.14	4	.6	1.1	19	SF5
		19	1542	51.43	19	22.00	155	4.60	6.97	2.0	1.9	38	3	77	.11	3	.5	.7	29	SF5
		19	2228	22.67	19	56.31	155	22.97	11.88	1.6	1.6	15	3	188	.10	7	.8	.5	10	KEA
		19	23 8	21.61	19	19.32	155	11.86	9.25	2.7	2.7	45	2	96	.12	5	.5	.4	37	SF3
		20	330	54.65	19	26.96	155	25.44	11.77	2.8	2.9	46	2	42	.12	3	.3	.4	41	KAO
		20	427	45.54	19	25.75	155	37.81	1.85	2.5	2.6	32	5	97	.16	4	.5	.8	28	MLO
		20	1138	1.58	18	56.35	155	9.48	43.56	2.7	2.3	40	1	267	.10	39	1.8	2.1	35	LOI
		20	1139	42.28	19	19.02	155	13.68	4.96	1.6	1.4	36	3	71	.14	4	.4	1.3	32	SSF
		20	1228	40.42	19	20.73	155	11.59	8.75	2.2	2.4	42	4	72	.10	4	.4	.5	37	SF3
		20	1629	18.44	19	18.18	155	13.07	7.24	1.8	1.9	38	2	99	.12	2	.5	.7	27	SF2
		20	1735	18.46	19	20.32	155	11.72	8.61	2.3	2.7	49	3	78	.12	5	.4	.6	46	SF3
		20	1741	29.76	19	17.99	155	13.14	7.20	1.7	1.8	35	2	101	.10	2	.5	.8	29	SF2
		20	1843	40.21	19	25.19	155	38.65	1.47	2.4	2.7	32	6	185	.11	6	.4	.6	27	MLO
		21	0 0	4.38	19	28.98	155	38.97	7.33	2.1	1.4	33	7	89	.20	5	.6	.9	30	MLO
		21	547	.49	19	26.58	155	25.61	10.97	2.2	2.4	46	4	43	.12	3	.3	.5	39	KAO
		21	834	49.35	19	19.18	155	26.48	11.24	3.1	3.5	51	5	55	.13	6	.3	.5	46	KAO
		21	922	36.66	19	30.04	155	38.89	8.43	1.6	1.4	26	4	98	.12	5	.6	.7	23	MLO
		21	1345	50.33	19	41.57	155	2.85	3.78	2.4	2.8	25	0	188	.15	21	1.0	20.9	25	HIL B*
		21	1738	46.34	19	29.27	155	39.21	8.93	1.7	1.4	25	5	93	.14	6	.5	.8	23	MLO
		21	2118	48.57	19	29.05	155	39.35	7.10	2.1	1.6	34	5	91	.11	6	.5	.7	32	MLO
		21	2222	47.85	19	19.63	155	12.51	7.61	1.4	1.6	38	3	83	.09	5	.4	.7	31	SF2
		22	328	8.55	19	19.24	155	13.04	7.54	1.3	1.1	29	3	80	.08	4	.4	.8	23	SF2
		22	747	57.54	19	20.99	155	52.42	8.22	2.3	1.5	20	2	214	.18	9	1.1	.8	15	KON
		22	11 4	57.89	19	20.68	155	12.22	7.61	2.3	2.0	47	6	69	.13	4	.4	.6	36	SF3
		22	1126	56.04	19	21.65	155	1.28	6.80	2.1	2.2	37	3	165	.21	4	.9	.6	24	SF5

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	SEP	22	1736	59.43	19	20.83	155	11.15	7.64	2.1	1.7	38	4	71	.11	3	.4	.6	28	SF3
		22	2129	45.80	19	28.23	155	35.20	.57	2.4	2.6	12	0	56	.15	0	.4	.2	9	MLO
		22	2250	55.69	19	25.30	155	37.60	.14	2.9	3.1	34	1	75	.14	4	.5	.7	22	MLO
		22	23 7	29.61	19	21.18	155	1.83	7.37	2.2	1.8	35	3	162	.11	3	.6	.5	27	SF5
		23	221	49.08	19	20.67	155	10.66	7.68	1.5	1.1	24	2	75	.08	3	.5	.7	16	SF3
		23	658	5.73	19	29.84	155	39.07	6.78	1.5	1.2	21	2	97	.16	6	.6	1.2	16	MLO
		23	721	5.17	19	43.82	156	10.70	39.42	3.0	2.1	37	2	255	.10	38	1.4	1.1	26	HUA
		23	9 1	6.16	19	21.29	155	3.24	7.47	2.2	2.5	42	1	107	.13	3	.6	.5	34	SF5 F
		23	2340	9.51	19	27.23	155	35.57	9.48	2.6	3.4	18	1	48	.13	1	.5	.9	8	MLO L
		24	016	25.07	19	1.88	155	19.49	36.56	2.8	2.4	51	5	216	.11	20	1.1	1.5	43	LOI
		24	230	21.89	19	24.47	155	27.22	10.74	1.7	1.2	31	0	35	.12	4	.5	.8	24	KAO
		24	337	49.93	19	29.76	155	39.21	5.88	1.4	1.6	33	5	74	.14	6	.5	1.0	25	MLO
		24	6 1	56.97	19	29.26	155	39.14	6.46	1.6	1.4	24	4	93	.11	6	.5	.9	20	MLO
		24	8 7	54.88	19	20.44	155	11.10	7.63	1.7	1.5	37	1	78	.11	4	.4	.7	29	SF3
		24	956	31.59	19	28.65	155	36.89	2.77	2.8	2.7	29	1	183	.13	2	.8	.4	20	MLO
		24	1519	16.54	19	27.99	155	.66	43.83	2.5	2.5	46	3	105	.09	6	.9	1.3	40	DEP
		24	1648	19.23	19	22.76	155	1.82	5.53	1.4	1.1	31	1	146	.12	6	.6	1.1	23	SF5
		24	1724	4.81	19	21.91	155	25.48	9.15	1.7	1.1	34	2	44	.10	4	.4	.7	27	KAO
		25	5 1	17.31	19	25.84	155	37.87	1.50	2.2	1.8	18	3	177	.11	4	.6	.7	15	MLO
		25	1112	58.40	19	22.42	155	3.31	8.45	2.0	1.7	31	2	114	.12	4	.5	.5	17	SF5
		26	2 2	22.47	19	17.87	155	46.59	10.63	3.0	3.0	40	0	90	.12	11	.5	.4	35	KON
		26	2 4	17.00	19	17.18	155	28.91	6.77	2.0	1.5	34	0	51	.18	4	.5	1.5	26	LSW
		26	1042	35.40	19	18.34	155	47.67	10.88	2.5	2.1	34	3	127	.12	9	.5	.4	32	KON
		26	1930	30.17	19	19.41	155	8.80	6.28	1.4	1.5	35	2	84	.13	4	.5	1.0	25	SF4
		26	2112	24.19	19	20.17	155	8.61	8.24	2.0	2.1	37	2	75	.10	4	.4	.8	26	SF4
		26	2255	44.32	19	19.90	155	4.10	6.17	1.3	1.1	15	2	147	.08	2	.6	1.1	11	SF5
		27	011	58.34	18	57.67	155	28.82	38.28		1.6	34	1	230	.08	20	1.8	1.8	26	DLS
		27	355	16.44	19	20.11	155	8.33	7.81	2.0	1.9	34	3	80	.10	5	.4	.6	26	SF4
		27	1056	28.64	19	19.85	155	10.25	6.13	1.4	1.1	24	2	89	.07	4	.5	1.1	17	SF3
		27	1132	39.39	19	22.04	155	25.23	9.21	2.3	1.8	45	5	43	.14	4	.4	.6	40	KAO
		27	1153	29.07	19	46.96	156	2.38	14.78	2.9	2.4	35	2	278	.12	24	2.3	1.0	29	HUA
		27	1934	54.84	19	19.71	155	11.09	5.28	1.0	1.1	26	2	92	.13	5	.6	1.6	23	SF3
		27	1944	32.79	19	19.78	155	8.27	9.37	3.2	3.5	45	3	85	.10	5	.5	.4	38	SF4 F
		28	238	40.07	19	28.56	155	37.12	1.42	2.3	2.4	22	0	105	.11	2	.5	.5	18	MLO
		28	334	49.61	19	21.32	155	2.55	6.40	2.0	1.7	36	4	143	.23	3	.8	.9	27	SF5
		28	457	33.16	19	20.07	155	10.49	7.45	1.3	1.1	24	2	85	.09	4	.6	1.0	18	SF3
		28	1553	19.16	19	24.59	155	1.71	5.99	1.8	1.3	32	2	166	.13	5	.6	.8	19	SF5
		29	856	19.88	19	24.94	155	28.11	9.60	1.8	2.0	38	3	37	.09	5	.3	.7	31	KAO
		29	1021	43.36	19	11.41	155	29.05	32.45	2.9	2.7	32	2	80	.09	4	.6	1.5	29	DLS
		29	1716	39.10	19	29.11	155	39.13	6.51	2.3	1.6	25	5	90	.14	6	.5	1.1	19	MLO
		30	226	28.58	19	20.84	155	12.94	7.65	2.1	1.9	40	4	62	.12	3	.4	.6	36	SF2
		30	247	13.24	19	21.29	155	7.03	6.74	1.5	1.1	29	2	84	.12	3	.6	.9	21	SF4
		30	527	57.23	19	3.40	155	40.47	3.62	2.7	2.7	28	2	146	.21	8	.8	3.4	15	LSW
		30	1019	57.80	19	31.17	155	54.11	9.45	2.8	2.5	38	2	173	.24	4	1.1	.6	25	KON
		30	1143	12.90	19	22.96	154	44.26	48.29	2.7	2.6	51	7	291	.12	15	1.1	1.1	43	LER
OCT		1	017	25.80	19	30.87	155	39.36	6.87	2.9	3.3	40	3	78	.15	7	.5	.9	28	MLO
		2	138	27.61	19	19.49	155	12.17	9.99	3.4	3.6	43	1	89	.10	5	.4	.3	42	SF3 F
		2	6 0	49.95	19	21.26	155	7.88	9.30	2.5	2.8	45	5	76	.11	4	.4	.5	35	SF4

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	OCT	2	1137	50.95	19	19.81	155	9.92	7.15	1.8	1.3	26	2	88	.10	4	.6	1.1	19	SF3
		2	2341	3.83	19	38.59	155	59.71	37.80		2.0	40	2	266	.09	17	1.9	1.9	34	KON
		3	1521	2.77	19	30.01	155	39.29	7.23	2.3	1.9	26	4	96	.13	6	.5	.9	20	MLO
		3	1549	12.98	19	20.24	155	11.57	8.52	1.6	1.1	28	2	80	.09	5	.5	.8	17	SF3
		3	1855	29.09	19	20.18	155	10.50	8.14	1.8	1.9	36	0	83	.11	4	.4	.7	31	SF3
		3	2020	23.62	19	19.44	155	11.39	6.62	1.4	1.1	26	0	98	.11	6	.5	1.2	19	SF3
		3	2145	38.51	19	20.71	155	4.56	6.27	2.0	1.8	32	2	107	.13	3	.5	.8	26	SF5
		4	812	33.23	19	19.73	155	7.91	5.22		1.6	26	0	95	.11	4	.6	1.6	26	SF4
		4	10 7	23.79	19	22.11	155	25.97	9.47	1.8	1.3	32	2	44	.12	3	.4	.8	23	KAO
		4	1315	28.49	19	19.30	155	11.77	5.27	1.7	1.3	31	3	98	.12	5	.5	1.6	20	SF3
		4	1428	16.53	19	19.44	155	8.50	5.16	1.7	1.1	27	2	82	.10	4	.5	1.5	23	SF4
		4	1611	50.82	19	22.53	155	25.15	7.78	1.3	1.1	26	1	41	.13	4	.4	.9	21	KAO
		4	1646	25.41	19	20.01	155	11.42	5.70	1.8	1.5	26	2	84	.14	5	.5	1.3	19	SF3
		4	1945	53.52	19	22.13	155	25.90	10.71	3.1	3.4	48	2	40	.15	3	.4	.5	43	KAO
		4	21 2	52.18	19	15.08	155	37.69	7.29	2.3	1.2	34	2	86	.21	1	.6	1.0	22	LSW
		5	147	17.29	19	13.36	155	36.87	9.06	2.3	1.4	20	0	89	.16	3	.7	1.0	16	LSW
		5	12 6	.78	19	21.74	155	4.68	8.43	2.4	2.9	40	1	79	.14	4	.5	.5	26	SF5
		5	1713	10.17	19	19.68	155	13.19	7.98	1.9	2.2	40	1	71	.13	5	.5	.6	35	SF2
		5	1738	34.81	19	20.50	155	9.49	6.78	1.6	1.1	27	2	73	.11	3	.6	1.1	24	SF3
		5	1842	15.42	19	18.65	155	15.35	8.79	2.6	2.7	49	3	101	.14	4	.5	.5	44	SF1
		5	1853	30.47	19	30.52	155	39.47	6.58	3.2	3.4	41	3	77	.14	7	.4	.9	29	MLO
		5	2325	28.76	19	30.17	155	39.19	8.72	1.9	1.6	26	4	80	.12	6	.5	.9	16	MLO
		6	153	15.56	19	25.69	155	27.85	7.96	2.8	2.6	48	4	45	.11	5	.3	.6	41	KAO
		6	254	20.38	19	17.58	155	29.69	6.72	1.4	1.1	30	1	60	.21	5	.5	1.7	24	LSW
		6	339	50.82	19	20.37	155	13.39	8.00	2.5	2.8	45	2	62	.13	4	.4	.5	39	SF2
		6	21 5	59.62	19	30.34	155	39.84	5.68	2.3	1.6	27	4	77	.15	7	.4	1.3	23	MLO
		7	134	21.95	19	19.72	155	7.59	8.85	2.9	3.2	48	6	102	.09	4	.4	.4	39	SF4
		7	552	1.59	19	21.20	155	3.12	6.22	1.8	1.2	32	3	123	.19	2	.7	1.1	16	SF5
		7	1135	20.20	19	30.45	155	39.56	7.89	1.5	1.6	23	3	128	.13	7	.5	1.1	17	MLO
		7	1721	36.29	19	44.52	155	28.38	15.84	3.9	4.2	53	6	118	.10	5	.4	.7	45	KEA F
		7	2039	41.97	19	10.26	155	30.50	7.21	1.6	1.8	31	0	113	.16	5	.7	1.1	22	LSW
		7	2152	58.72	19	34.37	155	54.04	23.66	1.8	1.9	39	2	196	.11	10	1.2	1.3	35	KON
		8	429	35.55	19	20.79	155	6.37	6.99	2.4	2.7	36	2	99	.12	4	.5	.8	31	SF4
		8	612	5.97	19	32.06	155	14.13	24.92	2.4	2.3	48	4	105	.10	14	.6	1.0	41	DEP
		8	1621	34.90	19	19.52	155	11.55	8.56	3.4	3.5	44	0	95	.09	6	.4	.3	41	SF3 F
		8	2117	49.77	19	57.65	155	36.54	48.48	2.5	1.9	34	3	148	.10	26	.7	1.6	24	KOH
		9	156	44.38	19	21.87	155	2.03	4.83	1.7	1.3	34	5	143	.17	4	.6	1.5	21	SSF
		9	556	27.27	19	20.42	155	6.53	7.72	1.6	1.5	31	1	106	.10	5	.5	.8	25	SF4
		9	1157	22.10	19	19.71	155	11.12	7.21	1.7	1.5	32	2	92	.10	5	.5	.8	22	SF3
		9	1314	44.24	19	21.52	154	59.79	4.83	1.8	1.3	33	4	189	.13	6	.7	1.4	21	SLE
		9	1445	39.19	19	29.98	155	39.06	6.24	2.6	2.4	19	2	99	.16	6	.6	1.3	13	MLO
		10	2056	47.21	19	19.46	155	11.57	6.75	1.7	1.2	26	2	96	.08	6	.5	1.0	22	SF3
		11	157	14.25	19	22.03	155	28.58	10.36	1.9	.9	26	0	43	.11	2	.4	1.1	26	KAO
		11	417	41.59	19	21.05	155	10.86	7.75	2.3	1.3	38	1	69	.12	3	.4	.7	37	SF3
		11	729	38.88	19	22.39	155	28.05	9.06	1.9	.9	33	0	38	.13	9	.4	1.1	33	KAO
		11	835	20.05	19	19.52	155	10.48	5.35	1.7	.8	30	0	97	.12	5	.5	1.3	30	SF3
		11	16 7	40.54	19	26.82	155	28.50	9.72	2.0	1.2	38	3	45	.11	7	.4	.9	28	KAO
		11	1816	14.63	19	19.22	155	15.31	6.18	1.3	1.1	35	3	99	.10	4	.4	.9	24	SF1

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	OCT	11	19 1	39.54	20	9.96	155	52.98	25.94		1.9	31	1	288	.12	12	2.8	1.6	22	KOH
		11	2232	2.40	19	28.34	155	27.81	8.06	2.3	2.3	43	3	56	.13	7	.4	.7	36	KAO
		12	142	34.92	19	19.57	155	12.17	7.26	2.6	2.6	47	3	87	.13	5	.4	.6	42	SF3
		12	232	42.29	19	17.57	155	14.52	8.11	1.5	1.1	16	3	160	.09	2	.6	1.1	13	SF1
		12	1327	28.74	19	20.23	155	12.01	7.62	1.8	1.5	37	3	78	.10	5	.5	.7	26	SF3
		12	22 2	7.74	19	26.28	155	24.42	7.62	1.8	1.5	36	3	53	.12	2	.4	.8	26	KAO
		12	22 3	54.11	19	16.27	155	23.50	3.66	1.2	1.4	33	4	110	.15	4	.4	1.3	27	SWR
		13	1850	.49	19	20.68	155	10.84	7.95	2.1	2.1	43	4	75	.11	3	.4	.6	37	SF3
		13	19 6	25.05	19	30.27	155	1.50	39.72	2.4	2.0	44	3	152	.10	4	1.0	1.5	40	DEP
		13	2249	44.33	19	28.91	155	38.98	5.48	2.4	2.1	45	7	71	.16	5	.5	.9	28	MLO
		14	426	44.19	19	30.84	155	39.49	7.82	1.5	1.4	20	5	79	.13	7	.5	1.2	16	MLO
		14	1018	22.68	19	28.78	155	39.05	7.54	2.3	1.2	23	5	182	.12	5	.7	.8	15	MLO
		14	1615	25.58	19	20.56	155	10.82	7.50	1.9	1.6	28	3	77	.11	3	.4	.8	20	SF3
		14	2215	42.37	19	19.42	155	15.29	7.96	1.4	1.5	34	1	95	.11	4	.4	.6	22	SF1
		15	213	.58	19	22.53	155	11.86	12.23	2.3	2.4	46	4	52	.11	2	.4	.4	40	SF3
		15	5 6	14.23	19	21.35	155	14.92	7.86	1.8	1.8	42	2	65	.13	3	.4	.5	29	SF1
		15	510	5.95	19	21.47	155	14.65	8.06	1.4	1.1	33	3	62	.11	3	.5	.7	26	SF1
		15	8 3	20.22	19	19.36	155	10.15	8.01		1.1	17	0	100	.06	5	.5	1.3	16	SF3
		15	943	26.34	19	48.28	155	33.31	23.30	2.6	2.0	44	5	113	.09	11	.5	1.4	36	KEA
		16	3 5	10.65	19	20.38	155	10.61	7.49	1.8	1.3	33	2	79	.11	3	.5	.8	24	SF3
		16	639	11.75	19	20.25	155	12.65	8.02		1.1	33	3	71	.11	4	.5	.7	22	SF2
		16	17 1	16.23	19	24.66	155	25.94	8.52	2.1	1.5	38	3	34	.14	2	.4	.8	31	KAO
		16	1932	59.29	19	26.52	155	29.39	8.54	1.6	1.2	29	3	43	.11	7	.4	.9	23	KAO
		16	2018	2.49	19	28.75	155	38.55	6.41	1.1	1.2	23	5	84	.13	5	.5	.9	18	MLO
		16	2353	.13	19	21.80	155	.49	8.46	2.3	2.1	42	3	174	.11	6	.7	.5	32	SF5
		17	124	9.74	19	23.15	155	26.43	8.45	2.1	1.7	37	2	31	.12	2	.4	.7	31	KAO
		17	957	30.59	19	20.21	155	12.42	7.74	2.0	1.3	31	2	74	.11	5	.5	.7	26	SF2
		17	1254	19.35	19	25.66	155	37.77	1.55	2.7	3.2	36	4	96	.12	4	.4	.7	31	MLO
		17	1922	1.46	19	20.34	155	4.77	4.08	2.1	1.5	36	5	123	.17	3	.6	1.4	26	SSF
		17	2134	5.84	19	20.52	155	7.71	5.95	1.7	1.1	34	4	88	.16	5	.5	1.0	23	SF4
		17	2339	53.57	19	18.89	155	8.66	7.24	2.1	2.4	37	1	87	.09	3	.4	.6	26	SF4
		18	236	59.67	19	26.79	155	28.01	8.81	1.8	1.3	40	3	44	.11	6	.3	.8	31	KAO
		18	1020	15.93	19	19.10	155	12.36	5.45	1.4	1.1	26	1	95	.10	4	.5	1.3	19	SF2
		18	1522	28.62	19	20.69	155	25.69	8.71	2.1	2.1	46	6	54	.12	4	.4	.6	39	KAO
		18	1722	8.03	19	24.71	155	29.18	9.11	2.2	2.1	40	2	38	.10	5	.3	.7	28	KAO
		18	18 6	51.69	19	24.44	155	29.14	9.29	1.6	1.2	29	2	68	.09	5	.4	.9	23	KAO
		19	334	48.27	19	21.13	155	6.21	7.94	2.6	2.6	42	2	93	.11	3	.4	.6	34	SF4
		19	954	37.49	19	20.24	155	10.71	6.84	1.9	2.4	39	0	83	.12	4	.5	.8	33	SF3
		19	10 5	26.86	19	23.98	155	26.52	8.48	2.3	2.5	42	3	35	.12	3	.4	.7	33	KAO
		19	1535	19.81	19	20.65	155	12.76	7.80	1.6	1.5	34	4	65	.10	4	.4	.6	26	SF2
		19	1547	55.89	19	33.51	155	36.45	5.44	1.9	1.9	18	0	135	.16	3	.9	1.7	15	MLO
		19	1947	36.21	19	20.56	155	13.48	8.35	1.8	1.8	46	4	59	.13	4	.4	.5	35	SF2
		19	2050	26.13	19	24.73	155	15.76	9.34	1.3	.6	16	2	150	.09	2	.8	1.1	13	INT L
		19	2052	13.67	19	23.33	155	15.56	10.75	1.5	1.3	14	2	94	.11	2	.9	1.8	8	INT L
		20	236	49.10	19	22.73	155	27.17	8.14	2.4	2.3	43	3	36	.14	1	.4	.8	32	KAO
		20	1251	22.44	19	15.14	155	22.50	7.12	1.4	1.7	27	1	166	.11	3	.6	.9	19	SWR
		20	1423	37.41	19	15.79	155	22.81	7.03	1.4	1.4	29	1	135	.10	3	.5	.9	18	SWR
		20	2029	22.85	19	20.33	155	11.36	7.12	1.9	1.6	42	3	80	.13	4	.5	.7	31	SF3

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	OCT	20	2149	59.92	19	38.21	156	29.81	32.65	2.4	1.7	23	1	319	.16	63	2.4	3.6	14	DIS
		20	2254	22.04	19	30.42	155	40.74	2.71	1.2	1.6	21	3	76	.22	9	.7	2.7	15	MLO
		21	310	57.23	19	19.36	155	11.98	6.83	1.6	1.3	32	3	94	.11	5	.5	.9	18	SF3
		21	1354	1.09	19	16.72	155	22.47	3.71	1.4	1.1	36	3	125	.14	5	.4	1.5	22	SWR
		21	1712	39.44	19	20.83	155	9.79	8.20	1.8	1.1	32	3	70	.09	2	.4	.7	24	SF3
		21	1827	33.56	19	17.79	155	16.72	8.99	2.8	2.7	48	4	141	.12	3	.5	.5	39	SF1
		21	2342	15.29	19	40.18	156	3.91	34.45	3.3	3.4	51	5	235	.11	25	.8	1.3	46	HUA
		22	141	41.31	19	20.31	155	12.46	7.71	2.1	2.3	47	4	118	.13	4	.5	.5	41	SF2
		22	311	51.12	19	20.09	155	12.93	6.46	1.5	1.1	31	4	70	.14	5	.5	.9	23	SF2
		22	438	55.05	19	22.23	155	24.51	10.51	2.8	3.1	48	1	27	.13	4	.3	.4	44	KAO
		22	557	48.96	19	8.59	155	38.52	9.05	2.1	2.3	32	3	112	.19	12	.6	1.1	20	LSW
		22	6 6	45.33	19	25.49	155	25.20	5.83	1.6	1.1	21	1	50	.11	0	.4	1.1	15	KAO
		22	1633	52.62	19	42.58	155	43.89	13.51	2.6	2.4	32	2	96	.17	11	.7	.5	22	HUA
		22	1721	35.52	19	22.49	155	25.07	10.89	2.6	2.8	49	3	30	.12	4	.4	.5	43	KAO
		22	2123	39.63	19	12.73	155	40.53	6.28	2.7	2.7	39	2	182	.22	7	1.0	1.4	30	LSW
		22	2339	29.42	19	19.70	155	9.86	6.22	1.4	1.1	37	3	90	.13	4	.4	.9	25	SF3
		23	415	42.39	19	25.27	155	26.72	6.08	1.7	1.3	35	3	37	.13	3	.3	1.0	25	KAO
		23	547	31.16	19	20.37	155	11.67	7.09	2.2	2.6	41	2	77	.13	4	.4	.7	36	SF3
		23	816	44.79	19	34.45	155	18.26	30.20	2.4	1.8	50	6	131	.10	12	.7	1.0	39	DEP
		23	1035	44.66	19	20.53	155	11.57	29.85	2.0	1.3	34	1	76	.10	4	.9	1.3	31	DEP
		24	114	58.17	19	21.12	155	17.96	28.45	2.1	1.5	43	1	40	.11	2	.6	1.0	39	DEP
		24	233	45.52	19	22.10	155	4.88	8.42	2.5	2.7	44	3	73	.12	3	.5	.4	37	SF5
		24	237	30.80	19	20.42	155	3.61	8.02	2.3	2.2	43	3	106	.12	2	.7	.5	32	SF5
		24	249	32.57	19	20.76	155	3.81	8.10	2.9	3.0	44	2	94	.11	2	.6	.4	38	SF5
		24	340	40.25	19	19.93	155	13.21	6.58	1.8	1.6	42	3	68	.13	5	.4	.7	33	SF2
		24	1335	54.04	19	24.20	155	16.41	9.05	1.3	1.1	15	2	101	.06	1	.7	.6	11	INT L
		24	19 5	26.25	18	52.50	155	10.15	43.57	3.4	3.3	50	3	256	.10	44	1.7	2.2	47	LOI
		24	2040	28.81	19	57.31	155	20.29	10.60	2.7	2.6	39	3	250	.10	7	1.6	.5	27	KEA
		24	21 9	42.27	19	29.57	155	38.79	7.44	2.3	1.5	23	4	94	.12	5	.5	.9	20	MLO
		25	050	.76	19	28.16	154	51.06	8.31	2.1	1.5	30	2	176	.14	1	1.2	.4	28	LER
		25	1 6	7.82	19	24.32	154	58.47	8.30	2.2	1.9	33	3	178	.16	2	1.0	.6	28	LER
		25	632	9.86	19	22.22	155	5.72	7.65	2.0	1.8	36	4	104	.10	2	.5	.5	26	SF4
		25	747	57.26	19	33.89	155	39.90	3.31	2.6	2.4	24	1	183	.10	9	.7	3.6	19	MLO
		25	756	45.33	19	33.27	155	38.25	5.14	2.3	1.3	18	1	174	.14	6	.9	3.1	16	MLO
		25	921	21.35	19	20.33	155	13.34	6.54		1.1	28	3	63	.12	4	.5	.9	23	SF2
		25	1029	21.74	19	29.46	155	38.86	6.33	2.3	2.1	32	5	121	.13	5	.5	.7	26	MLO
		25	11 2	35.36	19	29.69	155	38.85	8.21	4.0	4.1	45	2	80	.11	5	.5	.4	43	MLO F
		25	1313	.65	19	20.72	155	27.93	9.96	1.4	1.2	23	1	42	.13	3	.5	.9	17	KAO
		25	1338	16.11	19	42.32	155	2.77	4.79	2.5	3.1	30	0	192	.18	25	1.4	3.3	24	HIL L
		25	1454	11.84	19	20.41	155	8.63	6.76	1.8	1.3	35	3	73	.10	4	.5	.7	26	SF4
		25	1624	19.38	19	9.74	155	26.38	31.45	2.4	1.8	36	2	164	.08	3	.8	1.4	32	DLS
		25	2016	53.97	19	29.29	155	38.78	7.98	2.2	1.9	31	4	91	.13	5	.5	.7	21	MLO
		25	2255	19.64	19	29.76	155	38.68	8.00	2.3	1.6	26	6	74	.12	5	.4	.8	22	MLO
		25	2351	15.73	19	20.37	155	3.01	5.18	1.5	1.1	28	5	126	.20	1	.7	1.2	14	SF5
		26	624	57.03	19	19.82	155	9.72	6.22	1.7	1.1	27	3	87	.12	4	.5	1.2	19	SF3
		26	755	35.74	19	29.48	155	38.68	7.69	1.4	1.4	25	6	94	.12	5	.5	.7	21	MLO
		26	1049	35.40	19	17.34	155	26.96	7.18	1.1	1.1	26	2	97	.14	7	.5	1.1	18	LSW
		26	1157	34.88	19	19.62	155	11.04	6.89	2.0	1.8	39	4	95	.12	5	.4	.7	28	SF3

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	OCT	26	1321	12.82	19	20.45	155	9.63	7.79	2.1	2.1	35	3	75	.09	3	.4	.6	26	SF3
		26	1949	52.12	19	21.73	155	25.42	10.60	1.8	1.1	19	1	77	.12	4	.6	1.2	16	KAO
		26	21 9	47.90	19	22.45	155	2.42	6.07	1.6	1.1	28	1	135	.14	5	.6	.9	20	SF5
		26	2241	40.42	19	20.70	155	17.67	34.15	2.2	2.3	48	3	43	.11	1	.6	1.1	42	DEP
		27	18 3	35.35	19	19.65	155	7.80	9.25	3.4	3.5	49	5	98	.10	4	.5	.4	42	SF4
		27	1853	13.76	19	19.65	155	7.76	9.09	3.2	3.3	46	3	99	.10	4	.5	.4	42	SF4 F
		27	2022	10.15	19	20.22	155	30.13	7.72	2.7	2.4	44	3	44	.12	6	.4	.9	36	KAO
		27	2332	17.38	19	19.99	155	12.26	7.72	2.2	2.0	45	3	79	.13	5	.5	.6	38	SF3
		28	417	19.93	19	25.06	155	35.88	40.23	2.5	2.1	19	1	61	.12	4	1.2	2.0	5	DML L
		28	1356	36.60	19	20.18	155	4.00	6.59	1.9	1.7	38	4	129	.12	2	.5	.6	23	SF5
		28	1554	42.40	19	18.73	155	13.73	7.24	1.7	1.5	39	3	67	.11	3	.4	.7	25	SF2
		29	0 1	35.26	19	18.53	155	12.96	6.48	1.5	1.1	33	3	95	.12	3	.5	1.0	23	SF2
		29	421	28.84	19	19.09	155	14.77	6.29	1.4	1.1	30	3	94	.12	4	.4	.8	19	SF1
		29	447	59.50	19	17.57	155	22.96	2.66	.8	1.0	16	3	114	.08	5	.4	.9	11	SWR
		29	459	30.23	19	26.27	155	35.69	1.47	2.1	1.8	25	3	120	.21	2	.5	.8	20	MLO
		29	5 5	1.04	19	25.87	155	37.72	2.29	2.6	2.5	26	3	95	.14	4	.6	1.0	20	MLO
		29	627	29.19	19	20.61	155	13.50	8.21	1.9	2.2	39	3	59	.12	4	.4	.5	30	SF2
		29	17 3	56.03	19	20.41	155	11.49	7.79	1.7	1.3	37	5	77	.11	4	.4	.6	29	SF3
		29	1926	9.09	19	20.87	155	2.84	8.82	3.2	3.4	51	4	127	.13	2	.6	.4	42	SF5
		30	1 9	48.94	19	11.50	155	30.53	3.34	1.3	1.3	25	1	88	.16	6	.5	2.3	18	LSW
		30	5 4	11.35	19	20.33	155	11.63	6.75	1.6	1.3	35	3	78	.11	4	.5	.9	27	SF3
		30	935	15.02	19	20.97	155	13.98	8.62	1.9	1.3	39	3	64	.12	3	.4	.6	26	SF2
		30	1549	14.52	19	27.07	155	27.25	9.73	3.9	4.0	51	4	52	.13	5	.4	.5	46	KAO F
		30	1732	5.95	19	19.57	155	7.71	6.54	1.6	1.3	30	3	101	.09	4	.5	1.0	24	SF4
		30	1853	58.79	19	26.98	155	27.28	7.48	1.9	1.4	36	5	53	.13	5	.4	1.0	28	KAO
		30	1946	50.55	19	21.24	155	3.33	6.77	2.0		41	4	103	.16	3	.5	.7	25	SF5
		30	2027	43.34	19	19.57	155	12.21	4.03	1.5	1.1	28	2	87	.14	5	.5	1.8	20	SSF
		30	2226	30.80	19	25.00	155	26.71	9.99	1.7	1.4	35	2	35	.12	3	.4	.7	22	KAO
		31	832	38.27	19	27.08	155	27.32	6.68	1.8	1.3	23	2	61	.13	5	.5	1.3	16	KAO
		31	1636	43.47	19	24.19	155	16.82	14.77	1.6	1.2	37	2	76	.10	1	.5	.3	31	DEP
	NOV	1	1020	11.19	19	21.06	155	7.21	7.25	1.5	1.3	37	4	86	.11	4	.5	.7	25	SF4
		1	1547	12.94	19	17.36	155	20.91	4.29	1.1	1.1	24	5	146	.13	4	.4	1.5	17	SWR
		1	1755	47.51	19	19.25	155	15.33	7.56	1.6	1.3	35	4	99	.10	4	.4	.7	27	SF1
		1	21 4	15.87	19	24.54	155	26.05	9.18		1.1	37	2	35	.15	2	.4	.8	29	KAO
		2	255	47.80	19	20.54	155	11.99	7.51	2.6	2.7	46	4	73	.12	4	.4	.5	40	SF3
		2	2248	56.83	19	24.95	155	24.90	10.23	1.6	1.1	37	4	39	.12	1	.4	.6	26	KAO
		3	250	51.69	19	12.22	155	18.54	54.56	2.2	2.6	28	2	233	.10	13	1.5	1.1	7	DEP L
		3	433	38.86	19	20.35	155	30.37	7.69	2.0	1.5	38	1	53	.13	6	.4	1.0	31	KAO
		3	2237	55.10	19	27.03	155	27.14	7.15	2.4	1.8	33	1	56	.11	5	.4	1.1	31	KAO
		4	538	44.84	19	25.95	155	25.51	7.39	1.9	1.0	37	4	39	.11	1	.3	.9	30	KAO
		4	1011	44.47	19	18.77	155	14.86	6.12	1.3		28	3	101	.11	4	.5	1.0	24	SF1
		4	1710	49.03	19	18.18	155	14.02	6.41	1.8	1.5	33	2	82	.12	2	.5	.9	29	SF2
		4	1724	13.93	19	18.70	155	14.11	7.48	2.0	2.7	44	3	76	.13	3	.5	.7	32	SF2
		4	2251	12.07	19	16.59	155	22.80	2.84	1.1	1.0	16	1	121	.09	5	.4	1.2	13	SWR
		5	230	19.56	19	21.10	155	3.38	6.62	1.8	1.5	32	2	107	.15	2	.6	.8	24	SF5
		5	259	53.36	19	28.06	155	50.58	8.94	2.9	2.3	36	2	99	.20	8	.8	.7	30	KON
		5	546	23.32	19	48.76	155	23.75	24.87	2.3	1.5	45	5	80	.11	7	.6	1.3	34	KEA
		5	837	24.33	19	39.43	155	6.81	15.26	2.6	2.4	30	0	190	.06	18	.8	1.1	30	HIL

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	5	1222	41.61	19	40.35	155	6.83	14.39	2.6	2.6	43	5	97	.11	6	.4	.5	32	HIL
		5	1411	32.74	19	19.24	155	9.09	6.40	1.9	1.8	36	3	92	.13	4	.5	.9	24	SF4
		5	1445	41.36	19	20.91	155	24.59	9.68	2.2	2.4	48	8	56	.13	3	.4	.5	39	SWR
		5	1526	33.70	19	24.28	155	24.64	9.40	1.6	1.1	38	3	35	.11	2	.4	.6	26	KAO
		5	1745	3.58	19	19.06	155	13.09	5.59	1.5	1.1	32	2	81	.13	4	.5	1.1	23	SF2
		6	825	54.46	19	19.20	155	13.71	8.54	2.3	2.7	44	2	127	.12	6	.4	.4	34	SF2
		6	14 3	22.95	19	49.36	155	8.07	41.10	2.3	1.7	29	1	210	.11	12	1.2	2.0	23	KEA
		6	2335	28.15	19	20.44	155	11.92	8.59	2.5	2.6	46	5	75	.13	5	.4	.5	37	SF3
		7	722	34.08	19	25.69	155	25.80	3.65	2.6	2.4	44	4	36	.13	1	.3	.7	32	KAO
		7	828	25.15	19	25.19	155	38.38	2.13	2.5	2.5	23	0	181	.10	5	.7	1.4	19	MLO
		7	1233	30.33	19	21.25	155	3.21	6.11		1.3	30	4	108	.13	3	.5	1.0	20	SF5
		7	1323	56.99	19	22.86	155	16.55	8.26	1.8	1.9	6	0	128	.09	1	2.4	3.1	3	INT L
		7	1437	52.61	19	20.26	155	12.51	8.23	1.6	1.5	33	2	72	.09	5	.4	.6	20	SF2
		7	1456	34.15	19	21.16	155	3.69	6.47	1.4	1.1	27	1	88	.12	3	.5	1.0	20	SF5
		7	15 3	30.65	19	22.67	155	14.38	4.24	1.6	1.2	5	0	139	.09	2	1.6	2.6	1	SEC L
		7	18 3	17.03	19	23.81	155	16.00	3.07	1.4	1.7	17	3	101	.10	1	.4	.3	11	SEC
		8	855	54.88	19	20.63	155	12.11	7.93	2.2	1.3	31	1	71	.11	4	.5	.8	22	SF3
		8	9 7	.29	19	19.27	155	15.33	8.54	2.0	2.1	38	2	90	.11	4	.4	.6	27	SF1
		8	1834	50.17	19	20.39	155	12.84	8.08	2.0	2.2	40	2	67	.12	4	.5	.6	31	SF2
		9	217	24.89	19	21.37	155	7.16	4.20	1.1	1.1	11	0	93	.13	5	.7	2.5	10	SSF
		9	419	49.34	19	16.90	155	21.60	7.42	2.2	2.7	42	5	131	.12	6	.4	.6	32	SWR
		9	447	34.50	19	22.31	155	17.38	31.18	2.1	1.8	47	5	37	.11	2	.6	.9	36	DEP
		9	454	20.40	19	19.07	155	16.02	6.85	1.6	1.1	25	0	108	.09	3	.4	.9	25	SF1
		9	1013	55.07	19	20.01	155	12.78	5.81	1.5	1.2	31	1	73	.14	5	.5	1.0	24	SF2
		9	1333	4.19	18	58.50	155	18.20	27.82	2.2	1.9	41	2	231	.10	27	1.3	2.3	36	LOI
		10	6 6	45.76	19	20.99	155	13.16	7.31	2.1	1.1	30	2	64	.12	3	.5	.8	21	SF2
		10	17 4	25.49	19	19.85	155	12.92	6.72	1.5	1.1	27	2	74	.13	5	.6	1.1	24	SF2
		11	755	43.73	19	25.94	155	37.43	2.54	3.3	3.1	31	1	92	.12	3	.4	.8	30	MLO
		11	914	3.75	19	23.66	155	24.33	10.17	1.5	1.3	31	2	38	.10	3	.4	.7	25	KAO
		11	1045	6.25	19	21.17	155	2.64	6.44	1.9	1.8	34	3	134	.13	2	.5	.7	29	SF5
		11	1459	33.13	19	19.66	155	15.19	6.95	1.9	1.9	38	3	90	.11	4	.4	.6	32	SF1
		11	1711	24.53	19	20.70	155	11.36	9.14	2.7	2.7	45	4	73	.12	4	.4	.5	37	SF3
		11	2030	25.79	19	18.28	155	13.90	6.85	1.3	1.1	21	1	149	.12	7	.7	1.6	18	SF2
		11	22 5	38.32	19	24.90	155	16.05	15.51	3.6	4.0	52	3	36	.11	2	.4	.2	47	DEP
		11	22 9	13.87	19	24.96	155	15.86	15.05	2.1	1.9	49	8	36	.10	2	.5	.2	38	DEP
		11	2229	33.21	19	24.99	155	15.96	15.10	1.5	1.2	36	2	112	.10	2	.6	.4	32	DEP
		11	2356	17.72	19	21.99	155	1.71	5.53	1.6	1.5	39	5	149	.20	4	.6	1.0	20	SF5
		12	6 1	50.76	19	21.94	155	4.09	4.40	1.1	1.1	23	2	97	.21	4	.8	2.1	19	SSF
		12	657	26.14	19	17.04	155	21.32	5.51	1.7	1.8	32	3	130	.13	5	.5	1.2	22	SWR
		12	1252	14.51	19	20.48	155	12.86	8.55	2.2	2.5	45	5	66	.13	4	.4	.5	37	SF2
		12	1425	51.26	19	18.70	155	12.71	6.38	1.3	1.1	28	2	98	.09	3	.5	1.1	20	SF2
		12	1627	56.55	19	19.80	155	11.54	7.43	1.9	1.5	29	1	89	.09	5	.5	.9	24	SF3
		12	1716	19.50	19	19.87	155	12.88	7.05	1.4	1.1	29	2	73	.10	5	.5	.9	21	SF2
		12	1832	53.69	19	16.19	155	22.52	5.90	1.0	1.3	24	1	134	.08	4	.5	1.6	17	SWR
		12	1936	26.44	19	22.41	155	27.72	6.46	1.8	1.1	23	1	81	.10	0	.4	.8	18	KAO
		12	20 5	17.61	19	19.52	155	10.83	7.36	1.7	1.6	38	6	98	.11	5	.4	.8	28	SF3
		12	2112	37.85	19	22.02	155	.65	3.59	1.5	1.1	24	0	176	.17	6	.8	2.3	15	SSF
		13	047	12.46	19	20.98	155	3.38	4.69	1.4	1.1	24	3	105	.16	2	.6	1.5	13	SSF

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	NOV	13	123	57.03	19	21.80	155	3.83	6.51	1.5	1.1	33	3	91	.13	4	.5	1.0	22	SF5	
		13	6 9	58.29	19	20.32	155	13.02	6.61	1.2	1.1	25	3	67	.11	4	.5	.9	21	SF2	
		13	644	36.16	19	24.92	155	15.89	14.89	1.6	1.4	37	4	73	.09	2	.5	.3	24	DEP	
		13	1222	41.94	19	26.49	155	29.05	9.60	2.4	1.5	45	4	44	.12	7	.4	.7	31	KAO	
		13	1445	.32	19	21.22	155	2.36	5.91	1.7	1.4	27	2	144	.15	3	.7	1.1	16	SF5	
		13	1647	2.16	19	24.48	155	25.53	8.18	1.6	1.0	30	3	34	.11	2	.4	.8	23	KAO	
		13	20 3	15.50	19	25.05	156	17.32	33.89		2.2	31	0	268	.11	40	3.1	2.0	22	KON	
		13	23 0	37.43	19	19.79	155	13.05	6.39	1.7	1.1	31	3	72	.13	5	.5	.9	20	SF2	
		14	323	32.59	19	20.36	155	9.35	6.98	1.8	1.2	34	3	74	.12	3	.5	.9	23	SF3	
		14	448	20.43	19	27.13	157	.54	34.12		2.9	19	3	318	.09	114	2.4	4.1	15	DIS	
		14	716	49.42	19	26.22	155	37.14	2.07	3.5	3.3	44	2	63	.14	2	.4	.6	39	MLO	
		14	812	43.61	19	25.48	155	38.23	2.34	2.5	2.2	24	3	181	.10	5	.6	.8	18	MLO	
		14	1233	9.53	19	24.37	155	16.81	1.62	1.0	.9	13	2	100	.08	1	.4	.3	10	SSC	
		14	18 6	2.06	19	19.74	155	16.16	7.53	2.1	2.1	43	3	92	.13	2	.4	.7	32	SF1	
		14	23 6	28.25	19	20.48	155	13.19	7.78	2.0	2.0	41	6	63	.11	4	.4	.6	30	SF2	
		14	2343	34.48	19	21.50	155	28.31	9.19	1.9	1.5	35	3	45	.12	2	.4	.7	28	KAO	
		15	014	12.54	19	21.61	155	28.55	8.84	1.5	1.4	34	2	42	.12	2	.4	.7	27	KAO	
		15	231	8.98	19	18.53	155	15.42	6.20	1.8	1.5	31	3	105	.13	4	.5	1.0	23	SF1	
		15	1340	3.79	19	30.64	155	39.59	8.45	2.4	1.9	27	3	81	.12	7	.5	1.1	22	MLO	
		15	1356	16.26	19	31.00	155	39.76	8.03	2.4	2.6	30	5	80	.13	7	.4	1.0	24	MLO	
		15	14 3	48.42	19	30.16	155	39.58	6.04	1.5	1.4	25	5	100	.10	7	.5	1.2	18	MLO	
		15	2044	42.53	19	23.34	155	25.09	8.16	2.0	1.8	39	4	37	.11	4	.3	.7	32	KAO	
		16	113	12.21	19	22.30	155	5.17	7.26	2.0	1.5	39	3	71	.15	4	.5	.6	27	SF5	
		16	545	28.21	19	59.62	155	35.35	14.59	1.9	1.7	20	2	167	.08	25	1.6	1.3	15	KOH	
		16	613	.15	19	25.76	155	27.11	10.92	4.5	4.7	36	0	56	.12	4	.4	.9	36	KAO	
		16	936	55.98	19	25.56	155	21.33	6.86		1.5	4	0	267	.02	10	5.3	22.5	3	KAO	*
		16	948	14.10	19	24.30	155	27.23	9.75	2.8	2.7	14	0	188	.08	10	1.2	.9	6	KAO	
		16	953	48.70	19	24.88	155	19.77	7.51	2.6	2.7	11	1	120	.07	8	.8	2.8	9	KAO	
		16	10 1	.82	19	27.60	155	26.51	7.00	2.6	2.5	19	0	105	.12	5	.6	1.2	19	KAO	
		16	10 2	6.36	19	13.68	155	22.05	5.83	2.2	2.4	23	0	159	.12	4	.8	1.2	18	SWR	
		16	10 2	51.01	19	23.19	155	29.96	2.12	1.9	1.6	17	1	80	.08	13	.6	3.8	13	KAO	
		16	10 5	59.28	19	25.88	155	29.14	10.28	2.0	1.9	31	1	75	.13	7	.5	.8	27	KAO	
		16	10 9	10.12	19	25.05	155	30.32	12.06	2.0	2.5	30	1	55	.09	5	.4	.7	27	KAO	
		16	1016	16.69	19	24.84	155	26.73	12.24		1.6	7	0	306	.04	11	11.6	9.3	5	KAO	*
		16	1016	46.12	19	15.11	155	30.99	8.02	1.9	1.1	16	0	185	.14	11	1.0	3.3	13	LSW	
		16	1020	2.26	19	25.28	155	21.15	9.50	1.7	1.7	30	2	37	.13	4	.4	.8	24	KAO	
		16	1022	58.61	19	20.50	155	16.28	1.30	2.4	3.3	21	1	80	.11	2	.3	.6	17	SSF	
		16	1030	6.98	19	28.52	155	24.55	1.36	1.6	1.7	19	3	96	.17	6	.5	1.2	15	KAO	
		16	1036	49.91	19	15.66	155	22.82	6.00		2.8	26	3	140	.14	3	.6	1.2	23	SWR	
		16	1045	50.41	19	25.36	155	19.62	6.16	2.9	3.2	35	2	46	.14	3	.4	.8	34	KAO	
		16	1048	4.30	19	23.17	155	26.00	11.97		1.5	21	0	61	.12	4	.6	1.1	21	KAO	
		16	1048	42.21	19	25.06	155	15.80	14.91	2.4	2.2	35	2	79	.10	3	.5	.3	33	DEP	
		16	1054	12.63	19	17.58	155	28.01	9.59	2.8	2.5	39	4	82	.14	6	.4	.7	36	LSW	
		16	1058	44.37	19	26.31	155	24.34	9.57	2.5	2.4	41	7	54	.15	2	.4	.6	37	KAO	
		16	1059	35.10	19	25.22	155	21.80	12.66	2.6	1.7	23	0	51	.10	5	.5	.6	19	KAO	
		16	11 0	4.26	19	17.88	155	13.21	7.13	2.3	2.5	31	3	101	.13	2	.5	.8	28	SF2	
		16	11 1	19.83	19	21.88	155	21.39	9.12		1.5	14	1	83	.12	5	.7	1.3	13	SWR	
		16	11 2	45.34	19	23.05	155	22.28	10.49	1.5	1.5	15	1	70	.06	5	.7	1.2	13	KAO	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	16	11 6	6.59	19	23.18	155	29.28	11.73	1.7	1.4	24	1	91	.11	8	.6	1.0	24	KAO
		16	11 8	38.61	19	25.32	155	27.69	9.21	1.8	1.1	20	0	91	.11	4	.5	1.5	19	KAO
		16	1113	20.84	19	26.15	155	21.81	11.63	1.5	1.6	25	2	39	.10	3	.5	.7	19	KAO
		16	1119	57.45	19	28.08	155	26.14	9.82	1.7	1.4	29	2	47	.13	6	.6	1.1	27	KAO
		16	1120	20.26	19	22.69	155	25.04	13.47		1.4	17	2	94	.14	5	.8	1.4	15	DML
		16	1122	4.31	19	27.15	155	27.16	1.91	2.8	3.0	21	1	85	.12	5	.4	1.4	21	KAO
		16	1124	50.00	19	23.12	155	26.90	11.09	2.1	1.7	27	2	41	.11	5	.5	1.1	26	KAO
		16	1128	6.54	19	24.61	155	21.45	10.43	1.7	1.1	25	3	61	.11	4	.5	.7	24	KAO
		16	1129	6.70	19	25.77	155	27.73	16.92	2.0	1.0	20	0	120	.14	5	1.0	1.6	20	DML
		16	1131	7.53	19	22.78	155	25.94	11.06		1.5	25	2	41	.11	5	.6	1.3	25	KAO
		16	1133	22.72	19	20.86	155	23.10	11.22	1.8	1.3	12	0	72	.12	1	.8	1.3	9	SWR
		16	1135	48.02	19	25.39	155	20.19	2.75	1.9	2.2	23	1	56	.16	3	.4	.8	23	KAO
		16	1139	37.14	19	25.94	155	27.19	9.76	1.8	1.5	31	1	62	.13	4	.5	1.0	26	KAO
		16	1141	28.33	19	19.45	155	29.77	8.51	1.8	1.5	26	2	52	.10	6	.4	1.6	20	KAO
		16	1142	22.68	19	25.41	155	29.88	9.62	1.8	1.2	29	2	74	.11	5	.4	.8	25	KAO
		16	1148	19.90	19	20.54	155	24.41	12.98	1.5	2.1	10	0	161	.28	10	1.5	1.7	7	SWR
		16	1152	57.95	19	27.91	155	26.27	7.21	2.1	2.1	33	0	47	.13	5	.4	1.1	28	KAO
		16	1155	8.79	19	25.64	155	30.68	11.27	2.8	2.4	34	0	38	.10	9	.4	.6	32	KAO
		16	12 0	15.60	19	27.52	155	24.83	9.76	2.4	2.1	26	2	80	.14	4	.5	1.0	25	KAO
		16	12 1	51.86	19	25.45	155	27.98	11.54	2.2	2.5	28	0	42	.08	9	.4	.9	26	KAO
		16	12 3	20.84	19	22.02	155	25.68	12.47		1.5	26	1	44	.11	5	.5	.8	24	KAO
		16	1215	33.71	19	23.58	155	30.97	12.01		1.7	24	0	53	.08	11	.5	1.0	23	KAO
		16	1224	11.17	19	14.66	155	22.69	3.43	1.2	1.1	16	1	177	.08	2	.9	.9	16	SWR
		16	1224	59.00	19	27.27	155	24.00	11.36	1.7	1.6	24	2	47	.12	4	.5	.8	22	KAO
		16	1230	34.45	19	20.86	155	2.43	8.93	2.6	2.3	14	1	150	.06	2	1.0	1.2	13	SFS
		16	1231	35.08	19	19.92	155	25.65	10.20	1.9	1.8	27	2	58	.14	4	.5	.9	27	KAO
		16	1241	44.24	19	28.95	155	27.22	11.29	2.2	2.1	33	1	47	.11	6	.4	.6	31	KAO
		16	1244	45.23	19	28.47	155	25.92	9.72	2.6	2.1	36	2	45	.12	6	.4	.8	32	KAO
		16	1256	11.78	19	24.53	155	21.85	11.44	1.8	1.2	21	3	60	.10	4	.5	.7	19	KAO
		16	13 4	49.31	19	31.62	155	27.98	7.04	2.6	2.3	30	2	72	.13	1	.4	.9	27	MLO
		16	1311	14.23	19	27.60	155	24.28	11.40	1.9	1.6	28	1	48	.11	5	.6	1.0	27	KAO
		16	1314	31.90	19	27.62	155	22.86	3.53	2.1	2.0	25	2	49	.18	4	.5	1.0	24	KAO
		16	1318	7.10	19	22.98	155	30.28	10.65	1.9	1.9	27	2	56	.08	13	.4	1.3	27	KAO
		16	1322	51.64	19	23.46	155	25.20	10.41		1.5	25	1	47	.12	3	.5	1.0	22	KAO
		16	1324	15.94	19	28.05	155	26.34	10.25	1.8	1.2	25	2	111	.09	6	.5	1.1	23	KAO
		16	1324	45.70	19	26.59	155	22.87	9.68	2.5	2.7	42	6	40	.13	4	.4	.5	40	KAO
		16	1328	5.31	19	19.46	155	30.49	9.93	1.9	2.1	30	1	59	.10	8	.4	.9	25	KAO
		16	1330	47.55	19	29.14	155	23.77	11.75		4.2	45	4	44	.11	6	.3	.4	43	KAO F
		16	1334	35.70	19	22.84	155	26.68	10.39	1.9	1.1	27	1	40	.12	2	.5	.9	26	KAO
		16	1336	17.10	19	24.05	155	21.49	11.25	2.8	2.3	41	4	49	.12	3	.3	.4	38	KAO
		16	1343	3.69	19	19.50	155	26.98	11.38	1.8	1.2	30	3	51	.12	6	.4	.5	21	KAO
		16	1343	48.61	19	24.21	155	25.59	10.42	1.8	1.1	28	2	65	.12	2	.4	.7	20	KAO
		16	1352	8.64	19	22.37	155	22.09	10.21	1.9	1.8	31	5	50	.10	5	.4	.5	16	KAO
		16	1354	21.92	19	23.33	155	26.11	10.13	1.9	2.1	33	1	38	.14	3	.4	.6	30	KAO
		16	1358	3.52	19	28.00	155	22.17	1.79	1.8	1.3	17	1	119	.12	3	.4	.7	14	KAO
		16	14 6	13.19	19	27.42	155	24.53	1.27	2.0	2.2	33	1	40	.15	4	.3	1.0	26	KAO
		16	14 7	2.74	19	13.50	155	23.38	6.55	1.7	2.1	21	0	156	.09	2	.6	.8	15	SWR
		16	14 8	38.15	19	13.22	155	33.22	7.41	2.0	2.2	30	3	91	.21	6	.6	1.4	23	LSW

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	16	1410	6.94	19	26.77	155	26.41	3.04	2.6	2.0	34	3	51	.15	4	.4	.9	31	KAO
		16	1413	3.18	19	20.74	155	21.94	8.37	1.5	.9	16	2	68	.11	3	.6	1.1	15	SWR
		16	1413	56.03	19	20.17	155	30.33	7.14	1.8	1.1	20	1	54	.12	6	.5	1.5	18	KAO
		16	1422	54.09	19	28.59	155	22.04	5.35	1.8	1.3	28	4	94	.14	3	.5	1.1	27	KAO
		16	1423	43.43	19	23.61	155	26.08	11.12	3.3	3.5	42	6	31	.11	3	.3	.4	38	KAO
		16	1427	38.40	19	21.73	155	28.06	8.78	2.0	1.3	32	5	40	.13	2	.4	.7	27	KAO
		16	1439	14.29	19	25.69	155	20.46	8.51	1.7	.6	21	2	53	.11	4	.4	.8	21	KAO
		16	1452	11.09	19	27.21	155	23.30	8.34	2.4	2.2	37	4	41	.13	5	.3	.7	33	KAO
		16	1457	42.92	19	27.19	155	23.54	9.08	3.1	3.4	43	5	41	.14	5	.4	.6	39	KAO
		16	15 3	14.82	19	23.04	155	26.66	9.86	2.0	1.1	26	2	39	.10	2	.5	.7	23	KAO
		16	15 4	41.92	19	16.01	155	21.52	6.53	1.8	1.8	17	0	141	.08	5	.6	.9	13	SWR
		16	15 5	36.15	19	25.75	155	27.93	4.80	1.8	1.1	24	1	73	.13	5	.5	2.2	20	KAO
		16	1511	8.71	19	25.37	155	21.32	3.82	2.0	2.2	21	0	45	.18	4	.6	1.4	17	KAO
		16	1514	44.75	19	25.97	155	29.79	10.14	2.5	2.1	41	3	40	.12	7	.4	.5	35	KAO
		16	1516	41.66	19	25.21	155	19.65	3.52		1.5	19	1	51	.14	3	.5	.8	14	KAO
		16	1518	58.87	19	32.22	155	27.76	2.60	2.0	1.9	22	3	72	.20	0	.5	.4	16	MLO
		16	1520	44.44	19	25.11	155	28.78	8.30	1.6	.9	24	1	41	.10	5	.4	.8	20	KAO
		16	1533	12.06	19	20.52	155	24.11	12.49	2.1	2.3	26	4	63	.10	2	.5	.4	16	SWR
		16	1534	55.37	19	23.78	155	26.70	11.02	2.4	2.4	40	3	36	.11	3.	.3	.4	34	KAO
		16	1541	41.56	19	20.32	155	23.87	12.58		2.1	22	2	67	.11	1	.7	.8	18	SWR
		16	1559	4.75	19	25.03	155	19.69	5.22	2.8	3.1	38	0	37	.12	2	.4	1.1	33	KAO
		16	16 1	29.77	19	25.09	155	19.53	4.57	2.6	2.9	29	0	37	.13	3	.4	1.2	26	KAO
		16	16 4	18.25	19	26.95	155	23.19	1.33		1.0	23	3	83	.14	5	.4	.7	19	KAO
		16	16 6	37.33	19	26.41	155	29.59	9.30		1.2	27	2	64	.10	8	.4	1.0	19	KAO
		16	16 8	28.83	19	25.62	155	19.43	6.40	3.5	3.7	38	1	39	.15	4	.4	.9	36	KAO
		16	1615	53.64	19	24.62	155	21.64	11.09	2.1	1.4	36	4	37	.11	4	.3	.4	24	KAO
		16	1618	42.01	19	28.03	155	27.15	8.07	3.0	2.7	40	3	54	.12	6	.3	.7	32	KAO
		16	1621	56.37	19	24.44	155	28.15	8.43		1.1	28	2	58	.10	4	.4	.8	20	KAO
		16	1625	6.99	19	31.34	155	26.57	3.10	1.9	2.3	11	0	153	.10	2	.6	.8	9	MLO
		16	1628	36.94	19	18.47	155	13.35	5.58	1.2	.9	18	2	82	.10	3	.5	1.4	13	SF2
		16	1632	46.91	19	22.22	155	28.30	6.90	2.5	2.4	31	0	38	.12	8	.4	1.1	25	KAO
		16	1640	19.84	19	29.55	155	25.94	2.53	2.8	2.5	25	0	98	.12	5	.4	2.3	25	KAO
		16	1648	52.30	19	14.97	155	15.82	6.97		.9	14	0	219	.13	6	1.4	1.1	9	SF1
		16	1651	45.98	19	27.64	155	25.00	8.73	1.6	.9	28	1	47	.13	4	.5	1.2	19	KAO
		16	1657	40.77	19	22.38	155	26.46	10.18	2.0	2.0	35	2	39	.12	2	.4	.6	30	KAO
		16	1658	47.59	19	17.40	155	15.22	4.26	1.6	1.6	22	2	135	.11	3	.5	1.2	20	SSF
		16	17 1	2.39	19	29.29	155	27.28	7.02	2.0	1.5	42	3	61	.14	5	.4	.9	30	KAO
		16	17 4	42.04	19	17.54	155	15.30	4.43	1.2	.9	19	1	143	.10	3	.5	1.4	14	SSF
		16	17 5	26.54	19	27.21	155	23.50	11.05	2.2	2.2	41	6	47	.12	5	.4	.6	26	KAO
		16	1711	24.45	19	18.03	155	13.06	4.16	1.6	1.8	21	1	104	.08	2	.5	.9	18	SSF
		16	1714	2.44	19	25.88	155	19.66	3.12	2.1	1.3	19	4	102	.10	4	.4	.9	14	KAO
		16	1716	29.61	19	25.50	155	19.51	3.62	2.0	1.4	26	2	84	.13	3	.4	1.0	18	KAO
		16	1718	10.02	19	27.52	155	26.07	6.86	1.6	.6	33	2	49	.15	5	.5	1.1	22	KAO
		16	1725	5.10	19	22.83	155	27.00	7.82	2.0	1.9	31	2	35	.13	1	.4	.9	22	KAO
		16	1733	.24	19	21.73	155	28.42	10.57		3.4	46	4	38	.12	2	.3	.4	41	KAO
		16	1740	31.50	19	29.95	155	29.62	3.17	1.9	1.8	30	2	100	.13	5	.4	1.4	22	KAO
		16	1750	9.90	19	27.57	155	26.18	6.94		1.9	42	1	41	.14	5	.4	.8	36	KAO
		16	1754	17.49	19	27.90	155	24.03	4.19		2.0	35	2	36	.12	4	.3	1.0	24	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	16	1815	19.85	19	17.27	155	13.57	4.64	1.8	1.3	28	0	86	.11	0	.5	.9	24	SSF
		16	1816	17.03	19	17.38	155	13.36	5.36	1.8	2.3	27	0	106	.10	1	.5	1.0	23	SF2
		16	1819	47.50	19	27.58	155	25.77	9.36	2.1	1.2	32	3	47	.12	4	.4	.8	23	KAO
		16	1822	42.32	19	21.35	155	22.19	10.44	1.5	.9	29	2	60	.12	3	.5	.7	19	SWR
		16	1823	24.51	19	22.85	155	24.74	8.76	2.1	1.8	40	4	36	.13	5	.4	.6	28	KAO
		16	1834	54.74	19	28.30	155	28.49	8.79	1.5	.9	28	2	52	.09	7	.4	.8	17	KAO
		16	1839	18.23	19	25.05	155	19.68	4.62	1.9	.9	15	1	92	.10	3	.6	1.3	12	KAO
		16	1840	47.18	19	26.02	155	28.10	10.27	1.9	1.7	37	2	68	.11	5	.4	.7	26	KAO
		16	1842	17.24	19	12.36	155	22.10	1.67	1.3	1.1	14	1	183	.10	5	.7	1.1	8	SWR
		16	1848	1.92	19	24.28	155	29.57	8.91	1.8	1.1	12	1	108	.25	5	1.6	1.8	11	KAO
		16	1858	10.63	19	17.02	155	13.11	4.82	1.8	1.6	23	0	156	.09	1	.6	.9	17	SSF
		16	19	9 17.38	19	27.48	155	24.07	7.95	1.8	1.1	38	4	38	.11	5	.3	.6	28	KAO
		16	1913	11.44	19	27.73	155	25.50	7.88	1.9	1.5	39	3	37	.12	5	.4	.6	29	KAO
		16	1917	28.21	19	23.28	155	27.51	9.80	1.9	1.1	36	1	38	.11	1	.4	.7	29	KAO
		16	1918	11.60	19	21.48	155	22.10	9.70	1.8	1.3	34	3	59	.13	3	.4	.6	27	SWR
		16	1922	19.20	19	20.10	155	7.86	6.88	2.3	2.3	25	4	90	.10	5	.4	.9	15	SF4
		16	1924	13.93	19	17.96	155	13.16	6.71	1.4	1.3	30	3	100	.08	2	.5	.8	20	SF2
		16	1934	42.14	19	19.78	155	33.03	29.16	2.0	1.6	12	0	247	.21	10	7.0	7.8	11	DML
		16	1941	4.16	19	21.84	155	21.63	9.81	1.5	.6	22	2	54	.08	4	.5	1.0	21	SWR
		16	1942	42.42	19	26.91	155	23.31	10.20	1.8		35	5	69	.12	4	.4	.7	32	KAO
		16	1946	30.06	19	22.91	155	26.01	10.72	1.7	1.5	34	4	40	.11	3	.4	.7	32	KAO
		16	1950	28.16	19	29.99	155	22.79	7.91	2.3	2.2	38	3	48	.15	1	.4	.8	34	KAO
		16	1952	40.88	19	26.09	155	21.08	5.72	2.1	1.6	31	5	47	.11	3	.4	.9	25	KAO
		16	1956	10.73	19	25.25	155	19.67	8.16	1.5	1.3	28	5	46	.12	3	.4	.8	23	KAO
		16	20	1 22.75	19	26.56	155	23.97	9.88	1.8	1.2	26	3	42	.14	3	.4	.8	17	KAO
		16	20	7 17.05	19	28.14	155	25.10	9.36	1.6	.7	24	3	69	.11	4	.5	.9	16	KAO
		16	2018	27.06	19	28.06	155	21.35	.85	2.4	2.8	34	1	43	.24	1	.5	.6	22	KAO
		16	2026	54.90	19	22.30	155	24.11	11.73	1.8	1.1	26	3	43	.10	4	.4	.6	20	KAO
		16	2030	37.28	19	28.42	155	26.19	9.53	2.0	1.5	44	4	43	.13	6	.4	.7	30	KAO
		16	2042	3.42	19	23.46	155	27.24	10.72	1.8	.9	33	1	37	.10	2	.4	.6	21	KAO
		16	2047	34.62	19	21.20	155	31.02	8.64	2.3	2.2	34	1	51	.11	6	.4	.7	22	KAO
		16	2059	35.28	19	23.94	155	30.10	7.70	1.9	1.5	33	1	44	.11	5	.4	.9	22	KAO
		16	21	2 32.07	19	21.46	155	21.80	9.28	1.8	1.5	25	1	90	.10	3	.5	.7	16	SWR
		16	2111	51.30	19	27.49	155	25.58	7.07	2.1	2.1	37	4	44	.12	4	.3	1.0	25	KAO
		16	2116	26.28	19	23.17	155	29.52	10.13	1.6	.9	33	2	47	.07	4	.4	.7	21	KAO
		16	2117	23.43	19	30.07	155	27.18	3.43	3.0	2.9	41	2	58	.14	4	.3	1.0	36	MLO
		16	2121	23.51	19	12.09	155	22.49	7.59	2.1	2.6	35	0	185	.14	11	.7	.9	25	SWR
		16	2124	48.94	19	18.93	155	29.97	7.82	1.5	.9	32	2	57	.11	7	.4	.8	21	LSW
		16	2125	4.35	19	25.24	155	29.73	8.45	2.5	1.8	37	2	37	.11	6	.4	.9	35	KAO
		16	2126	52.79	19	26.83	155	24.01	11.97	1.8	1.2	25	5	40	.11	4	.5	.7	22	KAO
		16	2129	44.28	19	27.83	155	27.12	7.30	1.4	.9	20	3	68	.11	6	.4	1.3	18	KAO
		16	2134	30.90	19	25.00	155	25.53	10.16	1.7	.9	28	2	38	.11	1	.5	.9	26	KAO
		16	2136	34.45	19	25.59	155	28.46	9.15	2.2	1.5	35	1	39	.09	6	.3	.8	34	KAO
		16	2144	1.74	19	29.53	155	29.79	2.24	2.8	2.9	36	2	65	.14	6	.3	1.7	30	KAO
		16	2155	45.98	19	28.53	155	26.36	2.11	1.4	1.1	17	3	84	.11	6	.4	1.2	15	KAO
		16	2158	7.77	19	14.05	155	21.27	6.04	1.0	1.1	14	1	210	.09	5	1.0	1.8	14	SWR
		16	22	2 43.81	19	18.64	155	15.47	6.70	1.7	1.1	38	4	112	.12	4	.4	.8	34	SF1
		16	22	4 6.77	19	25.01	155	19.30	4.05	2.0	1.9	37	3	72	.12	3	.3	.8	34	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	16	22	5 16.01	19	25.51	155	20.08	8.43	1.8	.9	27	4	52	.09	3	.4	.8	25	KAO
		16	22	5 44.28	19	8.35	155	35.02	8.17		1.2	28	1	127	.14	13	.6	1.9	27	LSW
		16	22	7 7.73	19	22.98	155	34.74	9.24	2.1	2.2	32	5	53	.08	5	.3	.8	29	MLO
		16	2212	46.03	19	18.01	155	15.85	9.76	3.1	3.3	43	1	140	.12	5	.5	.5	42	SF1
		16	2221	50.51	19	22.83	155	28.40	1.97	1.8	1.7	27	0	53	.10	2	.4	.4	27	KAO
		16	2223	25.27	19	26.57	155	22.86	6.82	1.9	1.7	34	4	40	.12	4	.3	.8	30	KAO
		16	2233	58.85	19	15.39	155	26.30	3.71		.8	20	3	101	.12	4	.4	1.2	17	LSW
		16	2234	6.64	19	21.14	155	23.91	10.35	2.6	2.5	49	8	44	.13	2	.3	.4	44	SWR
		16	2239	5.02	19	28.98	155	25.20	2.85	1.9	1.5	28	4	58	.13	4	.3	.8	26	KAO
		16	2239	32.98	19	28.09	155	25.68	7.95	2.2	1.5	38	5	45	.12	5	.3	.7	36	KAO
		16	2245	25.01	19	28.57	155	25.47	6.00	1.6	1.1	23	2	82	.12	4	.5	1.3	20	KAO
		16	2246	41.47	19	25.21	155	19.39	4.99	1.4	1.1	18	2	122	.08	3	.4	.9	17	KAO
		16	2248	40.04	19	31.37	155	27.47	4.02	2.2	2.6	21	2	92	.15	1	.4	.6	18	MLO
		16	2251	.67	19	24.40	155	21.43	11.33	1.5	.9	29	5	58	.08	3	.4	.7	24	KAO
		16	2252	24.53	19	24.96	155	29.96	10.55	2.1	2.1	41	2	34	.09	6	.3	.5	33	KAO
		16	2255	2.25	19	23.07	155	27.21	10.16	2.6	2.5	32	3	38	.13	1	.4	.6	26	KAO
		16	2311	7.77	19	25.69	155	19.83	4.23		.6	9	0	138	.08	10	.9	99.0	9	KAO
		16	2316	19.28	19	24.62	155	21.54	10.96	1.9	1.5	40	6	56	.10	4	.5	.4	31	KAO
		16	2323	37.77	19	22.60	155	21.54	8.48	1.6	1.7	18	1	70	.11	4	.6	1.0	10	KAO
		16	2330	7.96	19	27.60	155	27.34	5.51	2.0	1.3	38	3	51	.15	6	.4	1.4	24	KAO
		16	2353	2.39	19	21.55	155	22.31	10.48	1.8	1.7	35	4	58	.14	3	.4	.5	26	SWR
		17	014	14.99	19	25.33	155	27.63	9.27	1.9	1.5	35	1	56	.12	4	.4	.8	24	KAO
		17	017	7.78	19	24.93	155	29.54	10.47	1.8	1.5	20	1	69	.17	6	.7	1.1	17	KAO
		17	018	8.04	19	27.45	155	25.50	8.42	1.8	1.8	42	2	35	.15	4	.4	.8	30	KAO
		17	023	26.90	19	13.41	155	21.41	5.60	1.8	2.0	35	1	159	.14	5	.6	1.0	25	SWR
		17	026	48.17	19	22.03	155	26.24	10.55	1.7	1.3	31	3	44	.10	3	.4	.6	22	KAO
		17	052	42.50	19	21.59	155	2.97	8.33	1.9	1.5	22	2	116	.08	3	.5	.6	15	SFS
		17	054	45.37	19	28.17	155	26.85	4.19	1.7	1.1	38	3	47	.15	6	.3	2.6	28	KAO
		17	114	37.05	19	21.57	155	28.29	8.65	1.8	1.3	34	3	39	.11	2	.4	.7	22	KAO
		17	128	.59	19	28.91	155	24.62	2.67	1.8	1.8	29	2	46	.21	3	.4	.9	22	KAO
		17	130	32.78	19	27.67	155	26.15	7.02	2.0	1.5	43	3	41	.12	5	.3	.8	30	KAO
		17	139	43.76	19	23.10	155	25.98	9.66	1.8	1.1	39	4	39	.12	3	.4	.6	27	KAO
		17	2	2 15.83	19	25.64	155	21.63	11.26	2.0	2.0	37	2	38	.11	4	.4	.6	25	KAO
		17	2	6 39.48	19	25.15	155	20.62	8.32	1.9	1.3	35	4	46	.11	3	.4	.6	25	KAO
		17	212	21.28	19	28.94	155	24.19	9.14	2.0	1.5	41	4	39	.14	2	.4	.6	30	KAO
		17	224	51.78	19	20.19	155	13.06	8.57	2.3	2.7	46	4	67	.15	5	.4	.6	37	SF2
		17	229	58.75	19	23.00	155	27.81	9.69	1.7	1.1	35	3	36	.11	1	.4	.6	24	KAO
		17	234	27.87	19	28.07	155	25.61	6.31	2.0	1.5	47	4	41	.16	5	.4	1.0	36	KAO
		17	251	7.40	19	26.03	155	27.00	9.84	2.2	1.8	21	0	58	.09	7	.4	1.0	16	KAO
		17	3	0 50.38	19	26.87	155	26.10	4.18	2.6	2.8	40	2	49	.16	3	.4	1.4	33	KAO
		17	3	7 1.28	19	28.27	155	27.33	2.73	1.9	1.1	33	3	49	.15	7	.3	1.6	21	KAO
		17	3	8 31.59	19	25.37	155	29.18	10.15	2.7	2.0	44	2	35	.11	6	.3	.6	41	KAO
		17	312	58.15	19	22.62	155	25.92	10.20		1.7	37	2	41	.13	3	.4	.7	33	KAO
		17	315	43.02	19	20.88	155	2.34	7.38	2.4	2.1	37	5	153	.12	2	.5	.4	32	SF5
		17	316	22.10	19	21.04	155	22.47	9.84	1.4	1.5	19	2	74	.10	2	.6	.9	18	SWR
		17	317	27.90	19	25.14	155	29.09	6.29		.6	26	1	65	.10	6	.4	1.4	25	KAO
		17	320	2.41	19	25.17	155	29.23	10.53	2.1	1.5	33	1	38	.10	6	.4	.7	28	KAO
		17	330	2.45	19	22.02	155	27.89	10.88	2.6	2.5	40	3	40	.11	1	.3	.5	37	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	17	335	7.67	19	31.94	155	27.37	4.42	1.9	1.5	25	2	88	.12	1	.5	.6	22	MLO
		17	339	15.72	19	26.73	155	25.75	2.68		1.1	23	2	46	.13	7	.4	2.4	21	KAO
		17	343	3.16	19	23.64	155	27.12	10.08	1.9	.9	30	1	45	.11	2	.4	.7	22	KAO
		17	349	27.76	19	21.65	155	19.36	31.20	2.6	2.7	45	1	43	.12	4	.6	1.0	43	DEP
		17	353	10.08	19	22.14	155	27.81	8.51	1.8	.9	32	2	43	.13	1	.5	.8	22	KAO
		17	4	5 23.87	19	21.86	155	21.85	10.88	1.8	1.1	23	1	59	.09	4	.5	.5	16	SWR
		17	4	9 40.75	19	14.54	155	17.58	8.62	1.7	1.5	33	1	171	.11	9	.7	.8	19	SWR
		17	416	20.31	19	27.27	155	25.89	8.41	1.7	1.1	31	1	47	.12	4	.4	.7	21	KAO
		17	417	8.64	19	21.57	155	19.63	31.97	2.7	3.1	47	3	45	.12	4	.6	1.0	44	DEP
		17	426	41.00	19	26.83	155	29.72	8.67	1.5	.7	22	3	63	.11	9	.5	1.4	14	KAO
		17	431	22.24	19	30.16	155	27.52	5.33	1.5	1.5	19	2	80	.08	3	.4	1.4	14	MLO
		17	437	22.19	19	26.12	155	30.27	8.45	2.5	1.5	36	2	41	.11	8	.3	.9	29	KAO
		17	439	2.18	19	25.07	155	19.16	3.87		1.1	18	2	123	.11	3	.5	.8	14	KAO
		17	439	38.73	19	27.23	155	24.43	9.23	1.3	1.2	29	2	59	.11	4	.5	.8	21	KAO
		17	441	53.42	19	27.89	155	25.32	8.29	2.2	1.6	35	2	43	.12	5	.4	.7	29	KAO
		17	443	25.00	19	20.88	155	2.56	7.21	2.9	2.5	43	4	143	.12	2	.5	.4	32	SFS
		17	445	51.66	19	20.80	155	4.43	4.72	1.8	2.5	23	1	103	.19	3	.7	2.1	20	SSF
		17	455	8.33	19	27.83	155	26.67	5.58	1.5	.9	28	2	49	.14	5	.4	1.2	21	KAO
		17	458	42.36	19	22.39	155	26.74	10.34	1.5	.9	34	1	42	.12	2	.4	.6	20	KAO
		17	5	0 16.50	19	11.31	155	21.08	5.77	2.1	2.3	39	0	173	.18	8	.7	1.0	28	SWR
		17	5	1 39.22	19	27.38	155	23.33	9.31	1.2	.9	26	3	53	.11	5	.4	.8	24	KAO
		17	5	2 42.73	19	13.66	155	20.48	.01	.8	.8	12	2	177	.08	6	.9	.4	11	SWR
		17	5	4 18.36	19	31.99	155	26.33	2.08	1.5	1.5	16	1	149	.14	2	.8	.7	15	MLO
		17	5	6 21.18	19	29.84	155	27.10	8.24	1.2	.7	13	3	103	.08	4	.4	1.2	11	KAO
		17	5	6 38.96	19	26.93	155	26.17	9.32	1.6	.9	28	3	55	.12	4	.4	1.0	25	KAO
		17	521	44.88	19	32.92	155	25.55	.01	1.3	1.4	12	1	183	.13	4	.6	1.3	10	MLO
		17	523	42.08	19	27.20	155	23.34	11.84	1.9	1.2	18	2	75	.10	5	.6	1.1	17	KAO
		17	527	35.87	19	29.31	155	23.96	9.68	1.5	.7	25	3	45	.11	2	.5	.7	22	KAO
		17	558	53.62	19	22.80	155	26.92	10.99	2.4	1.8	42	3	40	.11	1	.4	.5	38	KAO
		17	559	47.80	19	13.17	155	20.45	1.53	1.1	1.1	18	1	184	.09	7	.7	1.2	15	SWR
		17	6	4 44.64	19	26.81	155	28.07	8.53	1.6	.7	26	2	100	.10	8	.5	1.3	24	KAO
		17	6	9 9.96	19	25.85	155	25.15	8.35	1.4	.6	14	2	63	.08	8	.5	.9	6	KAO
		17	611	56.39	19	25.56	155	21.36	9.54	1.6	.9	31	3	33	.13	4	.4	.8	29	KAO
		17	614	8.69	19	20.20	155	20.43	30.50	2.1	1.4	36	3	69	.12	5	.8	1.4	33	DEP
		17	621	43.43	19	27.50	155	29.47	10.47	2.1	1.6	23	0	49	.12	8	.6	1.5	22	KAO
		17	624	13.78	19	27.59	155	26.01	8.05	1.8	.9	31	2	76	.13	5	.4	.9	28	KAO
		17	629	4.20	19	20.87	155	29.99	5.74	1.6	1.3	21	1	53	.10	5	.4	1.6	20	KAO
		17	640	58.78	19	22.47	155	26.47	10.99	1.8	.9	31	3	38	.10	2	.4	.7	29	KAO
		17	650	8.45	19	23.97	155	27.21	10.32	1.9	.9	31	3	61	.11	3	.4	.9	28	KAO
		17	654	1.10	19	28.23	155	27.05	7.30	1.6	1.1	28	2	49	.12	6	.4	1.1	26	KAO
		17	654	42.00	19	25.62	155	21.00	9.24	1.5	.3	24	3	51	.10	4	.5	1.0	19	KAO
		17	659	23.69	19	24.99	155	21.62	13.54	1.3	.7	17	2	74	.05	4	.6	1.7	14	DML
		17	712	26.80	19	24.86	155	28.05	8.98	1.8	.9	30	1	62	.11	4	.4	.9	27	KAO
		17	722	25.88	19	24.95	155	29.67	8.55	1.8	.9	27	1	40	.13	6	.4	1.0	20	KAO
		17	728	40.79	19	23.36	155	26.02	9.69	1.8	1.5	36	3	31	.11	3	.4	.6	27	KAO
		17	730	41.15	19	22.95	155	26.64	11.21	2.7	2.7	45	4	40	.13	2	.3	.4	37	KAO
		17	735	14.27	19	24.96	155	29.92	8.83	2.1	1.5	40	3	36	.11	6	.3	.8	30	KAO
		17	741	8.65	19	21.07	155	28.56	8.76	1.6	.9	25	2	41	.11	3	.4	.7	16	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	17	745	27.69	19	26.31	155	21.97	9.18	1.4	.9	25	2	53	.14	3	.5	.9	18	KAO
		17	746	15.93	19	32.04	155	27.42	3.03	1.7	1.5	21	2	67	.17	0	.4	.5	13	MLO
		17	750	31.70	19	27.19	155	26.17	3.49	1.7	.9	18	0	116	.10	16	1.0	19.4	12	KAO
		17	754	22.15	19	28.46	155	25.38	4.30	1.7	.9	31	2	46	.14	4	.3	1.5	21	KAO
		17	754	46.54	19	25.17	155	19.81	4.79	1.4	1.1	19	2	98	.11	3	.4	1.1	14	KAO
		17	755	9.77	19	24.91	155	20.31	8.04	1.6	1.1	23	3	92	.08	3	.4	.8	18	KAO
		17	829	6.24	19	25.52	155	27.75	7.94	1.6	1.3	31	3	55	.15	5	.5	.9	20	KAO
		17	833	2.19	19	22.53	155	25.88	9.71	2.1	1.7	42	4	82	.13	3	.4	.5	35	KAO
		17	833	42.35	19	15.14	155	20.04	8.56	1.6	2.0	15	0	160	.11	6	.8	.9	15	SWR
		17	840	4.54	19	26.70	155	27.40	5.12	1.6	.9	35	3	53	.12	5	.4	1.5	24	KAO
		17	849	47.51	19	13.91	155	23.01	8.06	2.3	2.5	42	3	155	.15	11	.5	.7	29	SWR
		17	925	27.43	19	22.70	155	20.59	8.93	1.8	1.3	38	4	44	.12	2	.3	.6	24	KAO
		17	927	53.06	19	28.09	155	26.60	7.46	1.7	1.1	25	3	75	.12	6	.5	1.1	19	KAO
		17	933	15.26	19	26.97	155	23.68	11.95	1.8	1.4	36	5	70	.12	4	.4	.6	28	KAO
		17	937	22.27	19	28.92	155	27.16	1.98	1.8	1.1	26	3	63	.11	6	.3	1.0	16	KAO
		17	941	20.57	19	26.12	155	22.10	7.58	2.2	1.5	32	4	58	.13	4	.4	.9	27	KAO
		17	957	57.05	19	28.20	155	26.16	9.48	1.7	.9	31	3	49	.11	6	.4	.7	22	KAO
		17	10	5 26.32	19	23.07	155	26.64	9.24	2.3	2.1	41	3	33	.11	2	.3	.6	31	KAO
		17	1010	8.25	19	28.33	155	24.38	3.69	1.6	1.5	27	3	56	.14	3	.3	.9	20	KAO
		17	1017	58.02	19	21.83	155	21.21	8.75	1.6	1.1	30	3	84	.10	4	.5	.8	18	SWR
		17	1022	37.13	19	27.84	155	23.86	8.95	1.7	1.2	22	1	72	.15	4	.5	1.2	15	KAO
		17	1027	34.25	19	22.05	155	28.85	3.93	2.7	2.9	42	3	38	.12	2	.3	.7	34	KAO
		17	1029	46.22	19	27.70	155	25.38	9.28	1.8	.9	32	2	43	.12	5	.4	.8	25	KAO
		17	1048	46.96	19	30.37	155	28.95	5.13	2.1	2.2	41	3	47	.12	4	.5	1.1	29	MLO
		17	11	5 4.17	19	23.68	155	26.09	6.71	2.1	1.9	40	2	36	.14	3	.4	.8	32	KAO
		17	11	6 40.55	19	25.54	155	28.54	6.78	2.0	1.9	32	2	59	.12	6	.4	1.2	23	KAO
		17	11	7 44.00	19	23.08	155	25.05	9.06	1.8	1.1	39	4	32	.12	4	.3	.6	30	KAO
		17	1114	47.67	19	27.74	155	26.92	6.03	1.8	.6	36	4	50	.13	6	.4	1.1	27	KAO
		17	1115	36.92	19	21.93	155	26.46	9.17	1.7	1.5	39	4	44	.15	2	.4	.7	29	KAO
		17	1126	10.81	19	25.11	155	21.22	9.02	1.4	.6	25	3	45	.09	4	.5	.9	19	KAO
		17	1143	30.66	19	23.98	155	27.17	10.29	1.8	1.5	36	2	33	.11	3	.4	.7	29	KAO
		17	1150	28.71	19	28.71	155	38.17	5.10	1.5	2.1	25	3	81	.11	4	.5	1.0	18	MLO
		17	12	9 3.44	19	21.24	155	29.44	5.25	1.7	1.5	35	2	43	.12	4	.3	1.1	24	KAO
		17	1212	47.50	19	22.19	155	28.65	8.69	3.7	3.9	48	4	37	.12	8	.3	.7	38	KAO
		17	1215	1.96	19	24.99	155	19.84	5.48	2.6	2.8	41	1	45	.13	2	.3	.9	32	KAO
		17	1216	7.12	19	25.83	155	19.24	3.53	1.9	2.2	25	3	126	.12	4	.4	1.0	21	KAO
		17	1224	36.40	19	24.98	155	16.15	15.20	1.0	.8	34	5	91	.10	2	.5	.3	30	DEP
		17	1225	45.62	19	25.67	155	19.48	7.70	1.8	1.3	29	3	103	.12	4	.5	.8	27	KAO
		17	1234	27.19	19	26.22	155	29.35	8.96	1.6	.7	29	2	61	.11	8	.5	1.1	26	KAO
		17	1242	56.59	19	25.41	155	28.43	9.64		1.5	35	1	38	.10	6	.4	.8	29	KAO
		17	1247	37.07	19	25.01	155	19.21	5.73	1.6	1.1	19	0	136	.11	3	.5	1.2	18	KAO
		17	1251	19.66	19	25.86	155	29.26	9.30	1.9	1.2	34	2	40	.12	7	.5	1.0	31	KAO
		17	1322	42.55	19	25.36	155	30.37	10.48	1.7	1.0	32	2	42	.11	7	.4	1.0	27	KAO
		17	1323	23.51	19	28.32	155	23.33	1.52	1.7	1.4	25	2	108	.14	3	.4	.7	18	KAO
		17	1324	5.54	19	23.04	155	26.84	8.55	1.8	1.1	38	2	33	.14	2	.4	.8	28	KAO
		17	1330	41.98	19	23.47	155	25.85	11.27	1.7	1.4	36	2	34	.12	4	.4	.6	26	KAO
		17	1340	25.36	19	22.42	155	25.97	9.53	1.6	1.1	34	2	42	.11	3	.4	.8	23	KAO
		17	1344	43.91	19	28.04	155	25.68	5.82	1.7	.9	30	3	67	.11	5	.4	1.0	18	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	17	1353	57.65	19	28.05	155	26.35	7.39	1.9	2.0	43	3	47	.13	6	.4	.9	35	KAO
		17	14 4	7.27	19	23.98	155	26.34	10.28	2.1	1.7	39	3	32	.11	3	.4	.6	31	KAO
		17	1412	29.20	19	23.62	155	26.91	9.26	1.8	1.5	38	3	37	.12	2	.4	.7	28	KAO
		17	1423	33.76	19	28.46	155	28.03	4.56	1.9	1.5	39	4	56	.14	7	.4	3.3	28	KAO
		17	1425	7.15	19	21.79	155	22.88	7.73	1.6	1.1	11	0	143	.15	3	1.2	2.3	7	SWR
		17	1457	20.66	19	23.08	155	26.38	8.81	1.6	.9	35	2	54	.13	2	.4	.7	29	KAO
		17	15 4	13.46	19	26.86	155	29.09	8.55	1.6	1.2	34	3	58	.11	8	.4	.9	20	KAO
		17	1526	49.75	19	26.80	155	22.71	8.89	1.4	1.1	33	4	62	.10	4	.4	.6	23	KAO
		17	1548	40.59	19	23.22	155	26.58	11.44	1.8	1.4	34	1	31	.11	2	.5	.8	30	KAO
		17	16 9	47.42	19	32.26	155	26.88	3.31	2.2	2.6	26	2	78	.15	1	.6	.5	23	MLO
		17	1625	23.33	19	18.50	155	13.00	8.44	2.5	2.4	44	5	94	.13	3	.4	.6	39	SF2
		17	1632	36.15	19	27.87	155	28.06	7.56	1.7	1.3	36	4	52	.11	7	.4	1.0	30	KAO
		17	1633	6.18	19	23.29	155	27.56	10.90	2.1	1.7	37	1	34	.12	1	.4	.7	35	KAO
		17	1635	32.39	19	20.80	155	23.08	9.18	1.6	1.5	25	4	65	.10	1	.5	.6	20	SWR
		17	1643	57.41	19	22.74	155	20.43	9.57	1.3	.6	21	2	58	.10	2	.6	1.0	20	KAO
		17	1646	23.25	19	21.82	155	23.05	10.21	1.6	1.1	34	3	55	.09	3	.4	.7	24	SWR
		17	1649	17.26	19	25.65	155	28.00	5.13	1.7	1.5	41	2	57	.14	5	.4	1.6	31	KAO
		17	1650	51.50	19	23.80	155	26.84	9.60	2.0	2.0	44	4	33	.12	3	.3	.5	32	KAO
		17	17 4	12.96	19	24.92	155	28.25	8.75	1.7	.9	26	1	58	.13	5	.5	1.1	23	KAO
		17	1724	38.83	19	15.43	155	22.76	7.62	1.2	1.2	17	1	138	.12	3	.7	1.4	12	SWR
		17	1727	58.28	19	21.30	155	21.94	10.91	1.6	1.1	34	5	60	.11	3	.4	.6	25	SWR
		17	1755	49.79	19	13.99	155	20.27	7.97	1.9	2.1	41	2	161	.16	7	.6	.9	34	SWR
		17	1757	9.69	19	21.14	155	24.86	12.62	2.0	1.8	41	5	52	.13	3	.4	.3	29	SWR
		17	1758	49.60	19	23.08	155	30.17	10.41	1.5	1.2	32	2	49	.09	5	.5	.9	25	KAO
		17	18 1	53.84	19	28.25	155	27.19	5.05	1.5	1.1	35	5	49	.13	7	.3	1.7	26	KAO
		17	18 6	59.25	19	24.56	155	20.18	6.94	1.4	1.1	30	3	52	.11	2	.4	.7	23	KAO
		17	18 9	40.66	19	26.42	155	27.64	5.07	2.0	1.8	41	2	54	.12	5	.3	1.5	35	KAO
		17	1820	25.58	19	25.16	155	19.53	3.43	1.2	1.3	20	3	118	.10	3	.4	.7	16	KAO
		17	1827	4.71	19	25.24	155	29.33	9.86	2.0	1.5	38	2	38	.11	6	.4	.8	31	KAO
		17	1844	24.86	19	17.55	155	13.97	6.67	2.2	2.4	37	4	103	.11	1	.5	.8	32	SF2
		17	1848	2.42	19	24.86	155	20.73	9.47	1.6	1.1	37	5	45	.10	3	.4	.5	22	KAO
		17	1853	9.50	19	25.87	155	27.98	6.38	1.6	1.1	34	2	40	.13	5	.4	1.2	29	KAO
		17	1914	47.44	19	27.21	155	23.71	7.91		1.8	46	4	46	.12	4	.3	.6	35	KAO
		17	1931	29.22	19	25.83	155	25.80	8.57	1.7	1.3	34	3	41	.13	2	.4	.9	27	KAO
		17	1932	48.63	19	24.62	155	21.83	9.44	1.6	1.5	40	5	37	.12	4	.4	.6	34	KAO
		17	1938	50.96	19	25.23	155	29.13	8.78	1.6		29	1	38	.08	6	.4	.8	24	KAO
		17	1939	40.90	19	27.45	155	25.54	9.76	1.6	.7	32	4	45	.11	4	.4	.9	27	KAO
		17	1950	38.48	19	13.10	155	22.39	3.34	1.3	1.1	20	0	166	.15	4	.7	1.1	16	SWR
		17	1951	42.84	19	22.70	155	26.67	10.09	1.9	2.2	47	5	36	.14	2	.4	.6	40	KAO
		17	1956	31.16	19	13.18	155	22.67	3.45	1.3	1.3	24	1	163	.09	3	.5	.7	22	SWR
		17	1959	.88	19	21.31	155	23.38	11.18	1.5	1.1	30	5	48	.10	2	.4	.7	25	SWR
		17	2012	24.70	19	15.53	155	21.00	7.47	1.2	1.7	29	0	147	.13	6	.6	1.1	27	SWR
		17	2017	4.63	19	21.64	155	23.63	9.69	2.2	2.3	41	4	40	.15	3	.4	.7	35	SWR
		17	2018	35.72	19	27.73	155	24.49	2.16	1.5	1.9	27	5	64	.12	4	.3	.7	24	KAO
		17	2039	57.81	19	24.82	155	19.15	4.88	1.0	1.1	18	0	100	.10	2	.4	1.0	18	KAO
		17	2040	38.63	19	28.79	155	22.79	3.15	1.3	1.5	21	2	142	.14	2	.7	.6	19	KAO
		17	2044	15.20	19	19.26	155	13.17	8.06	1.3	.9	18	2	77	.07	4	.5	1.1	14	SF2
		17	21 7	1.53	19	24.31	155	24.14	8.80	1.5	.6	28	3	52	.13	3	.5	.9	20	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	17	2110	.09	19	20.97	155	23.82	9.74	2.0	2.3	46	4	36	.14	2	.4	.5	35	SWR
		17	2116	4.72	19	28.20	155	23.67	.50	1.4	1.4	18	2	90	.14	3	.3	.7	13	KAO
		17	2119	19.35	19	27.76	155	26.74	6.48	1.6	1.1	31	2	49	.15	5	.4	1.3	23	KAO
		17	2125	40.72	19	21.27	155	2.19	6.14	2.2	2.5	39	3	149	.13	3	.5	.7	29	SF5
		17	2132	40.55	19	27.90	155	26.63	2.31	1.6	1.1	30	3	53	.14	6	.3	1.1	19	KAO
		17	2135	11.38	19	25.50	155	22.03	11.60		2.5	48	4	34	.12	5	.3	.4	39	KAO
		17	2147	.74	19	24.86	155	20.20	7.59	1.2	.6	16	1	100	.07	2	.5	1.3	12	KAO
		17	22 1	47.63	19	27.11	155	26.02	5.47	2.0	2.3	38	2	47	.14	4	.3	1.1	29	KAO
		17	2211	21.10	19	22.21	155	26.37	9.74	1.7	1.5	35	2	40	.11	2	.4	.7	26	KAO
		17	2232	43.03	19	10.61	155	21.82	.02	1.4	1.2	12	0	210	.07	8	.9	5.1	10	SWR
		17	2239	35.99	19	20.56	155	24.15	13.01	1.8	1.2	32	4	62	.11	2	.6	.7	26	DEP
		17	2242	20.00	19	25.35	155	30.12	10.95	1.9	1.4	38	1	37	.12	7	.4	.7	29	KAO
		17	2312	45.52	19	21.56	155	22.03	10.29	1.8	1.4	36	5	58	.11	3	.4	.6	23	SWR
		17	2320	30.92	19	24.98	155	20.15	7.11	1.4	1.1	28	2	79	.13	3	.4	.8	22	KAO
		17	2325	2.32	19	27.78	155	24.64	8.70	1.4	1.1	33	3	42	.12	4	.4	.9	29	KAO
		17	2325	30.64	19	28.13	155	25.16	.62	1.6	1.4	22	2	70	.12	5	.4	.7	19	KAO
		17	2326	25.12	19	28.43	155	26.12	9.95	1.4	.7	32	5	51	.11	6	.4	.8	25	KAO
		17	2328	1.95	19	27.89	155	26.18	8.05	1.7	1.1	38	3	47	.12	5	.4	.8	36	KAO
		17	2330	39.61	19	28.32	155	21.15	1.99		3.7	39	3	115	.14	2	.4	.3	36	KAO
		17	2339	59.79	19	26.75	155	27.56	8.55	1.9	1.5	33	3	43	.11	5	.4	1.0	27	KAO
		17	2343	11.29	19	18.64	155	13.19	5.38	1.4	1.1	29	2	86	.12	3	.4	1.2	26	SF2
		17	2348	18.79	19	26.99	155	29.10	9.71	1.9	.9	35	3	57	.11	8	.4	.9	31	KAO
		18	011	26.50	19	26.74	155	24.63	9.46	1.8	1.3	32	4	54	.13	3	.4	.8	29	KAO
		18	012	40.37	19	27.90	155	26.28	7.36	1.3	.6	36	4	50	.14	5	.4	1.0	31	KAO
		18	014	43.39	19	20.41	155	24.07	13.66	1.6	1.2	33	4	64	.10	1	.5	.4	30	DEP
		18	022	50.75	19	23.18	155	25.43	10.71	1.8	1.4	33	3	38	.10	4	.4	.7	29	KAO
		18	046	5.01	19	22.21	155	26.43	10.76	1.9	1.9	41	3	40	.12	2	.4	.7	36	KAO
		18	049	54.35	19	24.11	155	26.51	10.70	2.4	2.3	44	3	33	.13	3	.4	.6	39	KAO
		18	059	42.17	19	19.00	155	13.41	8.11		2.2	47	4	75	.13	4	.4	.6	40	SF2
		18	123	13.06	19	25.24	155	20.43	8.19	1.6	1.5	28	2	82	.12	3	.5	.9	24	KAO
		18	128	16.94	19	28.21	155	26.10	11.17	2.1	2.2	47	5	62	.13	6	.4	.5	37	KAO
		18	130	44.70	19	26.93	155	23.58	8.56	1.7	2.0	37	2	47	.10	4	.3	.7	24	KAO
		18	133	35.41	19	21.04	155	29.63	6.23		3.0	41	3	45	.12	4	.3	.8	31	KAO
		18	148	25.62	19	22.49	155	26.03	9.99	1.3	.9	25	1	59	.13	3	.5	.7	17	KAO
		18	156	23.83	19	24.84	155	19.93	5.71	1.3	.6	21	2	89	.09	2	.4	1.0	16	KAO
		18	212	34.44	19	24.82	155	19.94	5.55	1.9	1.5	33	5	45	.10	2	.3	.9	26	KAO
		18	220	13.35	19	21.98	155	22.14	10.35		2.6	49	5	54	.11	4	.3	.4	38	SWR
		18	231	1.61	19	23.44	155	21.36	10.20	2.1	2.2	46	3	42	.16	3	.4	.6	36	KAO
		18	235	29.54	19	27.11	155	28.88	9.66	1.6	.9	31	2	47	.09	7	.4	.8	18	KAO
		18	246	22.28	19	24.86	155	21.52	11.57	1.4	.9	22	2	75	.06	4	.5	1.0	15	KAO
		18	3 1	54.99	19	25.40	155	19.76	3.84		3.2	43	3	46	.13	3	.3	.9	35	KAO
		18	311	59.22	19	24.98	155	19.61	3.16	1.7	1.6	18	1	92	.09	2	.4	.6	13	KAO
		18	315	12.06	19	19.11	155	15.60	7.31	1.1	.9	21	2	105	.10	4	.5	1.0	16	SF1
		18	318	38.63	19	27.25	155	25.83	8.73		.7	24	2	51	.10	4	.4	1.0	20	KAO
		18	326	34.17	19	20.42	155	24.18	13.02	1.5	1.2	33	3	64	.11	2	.5	.6	23	DEP
		18	418	33.91	19	27.06	155	24.16	7.89	1.4	1.1	29	4	71	.15	4	.4	1.0	17	KAO
		18	424	28.83	19	25.29	155	30.01	8.45		.9	32	2	41	.09	7	.4	1.0	24	KAO
		18	432	38.21	19	25.45	155	19.90	7.31	1.7	1.5	39	3	46	.12	3	.4	.7	31	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	NOV	18	439	1.64	19	26.74	155	23.75	10.43	1.5	1.2	26	4	65	.13	4	.4	.7	17	KAO	
		18	442	24.89	19	25.15	155	20.51	8.58	1.8	1.3	38	6	80	.13	3	.4	.6	24	KAO	
		18	450	47.76	19	24.72	155	20.19	8.12		1.0	20	1	46	.10	6	.4	1.0	19	KAO	
		18	456	12.45	19	23.10	155	20.48	7.72		1.1	25	1	64	.11	2	.5	.9	20	KAO	
		18	526	17.44	19	27.02	155	25.96	2.09	1.5	.8	19	2	48	.15	4	.4	.9	12	KAO	
		18	529	6.64	19	22.20	155	24.08	12.55	2.1	1.8	49	6	34	.11	4	.3	.3	36	KAO	
		18	535	31.22	19	24.65	155	30.29	10.76	1.6	1.4	34	1	46	.07	6	.4	.8	23	KAO	
		18	539	27.74	19	27.53	155	24.30	8.41	1.1	.7	28	3	66	.09	4	.4	.8	17	KAO	
		18	549	57.53	19	28.42	155	27.20	3.22	1.5	1.1	30	4	60	.11	7	.3	1.4	22	KAO	
		18	610	43.65	19	25.06	155	28.91	12.78		.8	28	1	62	.20	5	.7	1.0	21	KAO	
		18	613	36.23	19	23.16	155	26.26	9.72	1.4	1.3	37	3	45	.11	3	.4	.6	31	KAO	
		18	619	39.99	19	50.56	155	34.74	15.40	2.6	1.9	33	2	111	.11	14	.6	.9	24	KEA	
		18	651	4.78	19	24.95	155	21.92	11.04	2.5	3.3	49	6	36	.11	5	.5	.4	38	KAO	
		18	7 4	14.22	19	25.10	155	21.05	8.61	1.4	.6	28	5	85	.12	4	.5	.7	22	KAO	
		18	7 4	45.14	19	28.15	155	25.21	7.63	1.9	1.3	38	3	43	.13	5	.4	.8	27	KAO	
		18	7 5	24.88	19	23.24	155	25.82	9.81	2.1	2.0	40	2	30	.12	3	.4	.7	34	KAO	
		18	7 7	6.45	19	27.60	155	25.04	8.29	1.5	.4	26	3	45	.11	4	.4	1.0	22	KAO	
		18	734	16.32	19	22.57	155	27.87	10.17	1.5	1.1	40	3	38	.13	0	.4	.7	33	KAO	
		18	742	30.87	19	50.56	155	34.70	16.01	2.9	3.0	42	3	111	.09	14	.6	1.3	28	KEA	
		18	818	46.99	19	24.97	155	19.35	4.42		1.3	23	5	120	.13	2	.5	.8	18	KAO	
		18	832	48.87	19	24.74	155	20.16	7.69	1.5	1.1	33	5	44	.13	2	.4	.7	27	KAO	
		18	850	35.49	19	26.02	155	29.73	8.45	1.8	1.3	36	3	41	.10	8	.4	.9	26	KAO	
		18	9 0	56.85	19	25.87	155	19.72	6.59	1.1	1.1	24	5	102	.11	4	.4	.8	12	KAO	
		18	931	20.16	19	9.88	155	20.43	4.69	2.1	2.5	37	0	214	.16	10	1.0	1.8	22	LOI	
		18	951	33.50	19	23.23	155	27.02	9.87	2.2	2.4	44	5	32	.12	2	.4	.5	38	KAO	
		18	954	38.15	19	25.93	155	19.91	3.83	2.2	2.6	32	1	47	.13	4	.4	1.3	23	KAO	
		18	958	6.04	19	22.03	155	26.45	11.11	2.4	2.1	44	4	42	.14	2	.4	.6	36	KAO	
		18	958	32.20	19	22.06	155	26.15	9.29	2.5	2.6	37	3	41	.13	3	.4	.7	29	KAO	
		18	1023	.17	19	13.97	155	23.29	6.05	2.1	2.7	40	0	153	.16	1	.5	1.0	28	SWR	
		18	1036	45.79	19	13.78	155	22.98	6.21	2.0	2.5	35	0	156	.14	2	.6	.9	24	SWR	
		18	1052	7.23	19	18.05	155	23.77	8.18	1.7	1.9	33	2	89	.14	4	.5	.9	21	SWR	
		18	1059	46.07	19	29.20	155	24.84	1.42	1.7	2.0	23	4	88	.15	3	.3	.8	20	KAO	
		18	11 5	41.49	19	24.86	155	20.51	7.41	2.1	2.1	38	3	45	.12	3	.4	.7	31	KAO	
		18	1127	6.72	19	28.44	155	24.94	.02	1.8	2.1	32	3	43	.14	4	.3	.6	22	KAO	*
		18	12 7	43.93	19	11.65	155	27.57	9.40	1.8	1.6	23	0	209	.11	8	.9	1.1	18	LSW	
		18	1220	23.89	19	25.93	155	21.71	10.62	1.8	1.4	43	6	32	.12	4	.4	.5	30	KAO	
		18	1232	8.65	19	19.69	155	26.99	10.12	1.6	1.3	31	2	50	.13	7	.4	.7	23	KAO	
		18	1245	11.48	19	28.53	155	28.60	3.52	2.1	1.3	30	2	74	.16	7	.5	2.4	24	KAO	
		18	1326	.72	19	27.43	155	27.45	7.43	1.8	1.3	31	2	52	.14	6	.4	1.1	23	KAO	
		18	1359	42.20	19	31.78	155	36.90	10.27	1.7	1.4	21	3	111	.18	3	.7	.9	16	MLO	
		18	1432	33.67	19	26.82	155	23.41	10.45	1.8	1.6	38	5	48	.10	4	.4	.6	28	KAO	
		18	1443	27.99	19	20.04	155	24.53	10.94		.8	29	4	65	.09	2	.4	.8	20	SWR	
		18	15 2	16.60	19	28.72	155	25.52	6.46	1.5	1.0	33	3	49	.14	4	.4	1.0	24	KAO	
		18	1515	47.02	19	28.76	155	26.26	4.80	2.1	2.1	41	5	44	.16	6	.4	2.6	30	KAO	
		18	1529	35.20	19	29.07	155	25.36	5.17	1.7	1.3	32	2	59	.13	4	.4	1.2	25	KAO	
		18	1533	26.13	19	22.91	155	25.84	9.47	1.5	1.0	35	4	40	.12	5	.4	.7	27	KAO	
		18	1541	52.19	19	30.55	155	28.60	4.82	1.3	.9	28	3	71	.12	3	.4	1.3	22	MLO	
		18	16 7	45.98	19	26.11	155	28.97	8.33	1.6	.9	36	5	42	.11	7	.4	.9	27	KAO	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	GAP NS	DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	NOV	18	1624	21.56	19	29.92	155	26.68	1.93	2.9	3.2	41	2	49	.14	4	.3	1.2	29	KAO	
		18	1630	6.44	19	28.16	155	26.49	10.02	2.8	2.5	44	2	55	.12	6	.4	.7	38	KAO	
		18	1635	43.01	19	27.15	155	27.39	7.49	1.9	1.3	38	4	52	.12	5	.4	1.0	31	KAO	
		18	1643	2.57	19	26.87	155	25.99	8.56	2.2	1.5	45	3	40	.13	5	.4	.7	34	KAO	
		18	1711	7.46	19	23.01	155	25.70	9.46	2.1	2.2	46	4	39	.11	4	.3	.5	39	KAO	
		18	1720	7.67	19	27.62	155	26.21	7.78	2.0	1.4	44	4	48	.14	5	.4	.7	33	KAO	
		18	18 0	29.53	19	22.29	155	27.33	9.60	2.0	1.3	36	2	40	.12	1	.4	.7	26	KAO	
		18	18 1	39.87	19	24.75	155	20.27	8.17	1.9	1.4	38	4	45	.12	2	.4	.7	31	KAO	
		18	1813	34.44	19	31.37	155	28.20	2.88	1.8	2.2	32	2	55	.15	2	.4	.6	18	MLO	
		18	1817	33.14	19	27.75	155	29.90	8.59	1.6	.9	31	3	50	.15	9	.5	1.2	24	KAO	
		18	1842	14.41	19	12.83	155	20.56	.00	1.6	1.2	30	3	188	.09	7	.7	.5	22	SWR	*
		18	1919	24.51	19	26.73	155	28.74	8.58	2.3	1.3	43	4	44	.15	7	.4	1.0	34	KAO	
		18	1938	15.25	19	27.96	155	26.78	5.53	1.7	1.1	39	5	49	.13	6	.3	1.1	30	KAO	
		18	1949	9.67	19	23.45	155	26.32	10.34	1.5	.8	31	1	38	.11	3	.4	.9	25	KAO	
		18	1958	10.17	19	20.02	155	28.73	10.15	1.8	1.5	22	2	104	.12	5	.6	1.1	20	KAO	
		18	2024	15.37	19	27.56	155	28.01	9.35	1.6	1.2	24	3	78	.10	7	.5	1.1	20	KAO	
		18	2025	24.86	19	26.75	155	27.38	8.67	1.7	1.1	31	3	81	.11	5	.4	.9	25	KAO	
		18	2029	43.35	19	22.60	155	23.93	12.38	1.9	1.8	40	2	37	.10	5	.4	.7	36	KAO	
		18	2038	6.06	19	24.74	155	19.70	7.54	1.5	.6	24	3	87	.09	2	.4	1.0	21	KAO	
		18	2047	13.91	19	24.19	155	25.63	10.61	1.7	1.4	33	2	32	.12	2	.4	.8	30	KAO	
		18	2114	24.63	19	13.10	155	22.17	1.79	1.3	1.4	17	3	173	.09	4	.5	.7	15	SWR	
		18	2117	11.61	19	25.59	155	21.53	12.32	1.8	.7	33	4	38	.09	4	.4	.6	25	KAO	
		18	2118	45.22	19	14.77	155	17.72	8.85	2.3	2.4	40	0	168	.11	10	.6	.8	36	SWR	
		18	2119	53.88	19	25.22	155	30.95	9.53	1.8	1.2	36	2	36	.11	8	.4	.9	30	KAO	
		18	2130	8.92	19	26.30	155	29.53	8.66	1.3	.7	24	2	62	.07	8	.4	1.0	20	KAO	
		18	2153	40.88	19	27.35	155	25.07	10.02	1.5	.9	30	3	40	.10	4	.4	.8	22	KAO	
		18	22 4	40.65	19	24.14	155	27.27	9.72	1.6	.9	35	2	54	.12	3	.4	.7	23	KAO	
		18	22 9	.63	19	21.18	155	28.46	9.49	1.9	2.2	46	5	39	.11	3	.4	.5	34	KAO	
		18	2216	45.69	19	25.29	155	30.02	9.61	2.1	2.1	40	1	57	.10	7	.4	.7	36	KAO	
		18	2217	41.19	19	26.95	155	29.34	8.89	1.9	1.4	36	4	46	.11	8	.4	.9	29	KAO	
		18	2226	38.01	19	26.13	155	27.76	10.01	1.6	1.0	30	1	64	.12	5	.4	.8	23	KAO	
		18	2228	11.76	19	26.35	155	23.75	10.06	1.3	.8	24	3	120	.11	3	.4	.7	19	KAO	
		18	2231	45.39	19	25.27	155	21.03	8.42	1.4	1.1	28	3	87	.11	4	.4	.8	22	KAO	
		18	2242	10.90	19	15.44	155	17.85	6.58	1.6	1.5	36	0	160	.13	5	.6	1.1	19	SWR	
		18	2246	22.45	19	11.57	155	22.54	7.36	2.3	2.7	40	0	187	.12	10	.7	.8	33	SWR	
		18	2250	16.91	19	27.05	155	27.21	9.15	2.1	1.5	35	3	44	.10	5	.4	.8	28	KAO	
		18	2251	15.09	19	27.45	155	27.20	8.33	1.5	.7	27	2	83	.12	5	.5	1.1	25	KAO	
		18	2256	6.45	19	21.38	155	21.90	10.76	1.6	1.3	29	2	59	.09	3	.4	.9	24	SWR	
		18	2315	42.95	19	21.64	155	22.02	10.51	1.6	1.3	32	5	57	.09	3	.4	.7	24	SWR	
		18	2331	35.29	19	25.19	155	20.41	8.41	1.6	1.1	35	5	72	.10	3	.4	.7	30	KAO	
		18	2353	47.72	19	18.06	155	15.69	7.13	1.8	1.8	40	1	119	.11	4	.4	.7	33	SF1	
		19	0 3	46.64	19	32.31	155	27.06	4.07	1.5	1.5	25	3	106	.12	1	.5	.7	21	MLO	
		19	025	1.89	19	24.97	155	21.28	12.29	1.8	1.0	23	2	60	.06	4	.5	1.0	20	KAO	
		19	042	22.40	19	25.03	155	21.49	10.86	1.7	.9	32	2	35	.09	4	.4	.8	27	KAO	
		19	058	46.14	19	26.13	155	22.02	7.91	1.5	1.1	27	2	38	.09	4	.3	.7	22	KAO	
		19	1 2	22.64	19	27.86	155	25.66	9.07	1.5	.9	27	4	48	.13	5	.5	1.1	21	KAO	
		19	1 4	15.35	19	27.70	155	26.99	6.88	2.3	2.2	41	2	50	.13	6	.3	.8	37	KAO	
		19	112	3.29	19	22.52	155	24.63	13.83	1.9	1.0	37	4	40	.11	5	.5	.6	32	DML	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	19	116	59.05	19	25.08	155	21.53	11.01	1.3	.7	29	5	41	.09	4	.4	.8	24	KAO
		19	135	7.19	19	26.84	155	26.73	8.32	1.7	.7	30	4	51	.10	4	.4	.8	25	KAO
		19	137	6.82	19	32.07	155	37.41	10.36		.8	28	4	161	.17	4	1.0	.7	26	MLO
		19	137	51.72	19	17.40	155	15.65	10.49	4.1	4.1	49	3	146	.13	5	.5	.5	47	SF1 F
		19	148	5.74	19	24.94	155	20.11	8.30	1.7	1.1	36	5	45	.12	2	.4	.8	31	KAO
		19	148	56.25	19	22.79	155	25.77	10.19	1.7	1.0	35	3	31	.12	3	.4	.8	31	KAO
		19	158	50.02	19	22.64	155	26.50	10.48	1.6	1.3	33	3	43	.11	2	.4	.7	27	KAO
		19	2 1	29.50	19	23.12	155	27.02	11.18	1.8	1.1	33	1	33	.11	2	.4	.8	29	KAO
		19	211	23.17	19	28.14	155	27.31	4.85	1.9	1.2	44	5	49	.14	7	.3	2.1	31	KAO
		19	213	44.63	19	20.62	155	3.08	5.37	2.0	1.3	30	4	110	.12	1	.5	1.0	20	SF5
		19	215	35.51	19	23.65	155	26.31	9.99	1.6	1.0	29	1	32	.09	3	.4	.7	23	KAO
		19	227	34.55	19	27.57	155	23.94	8.50	2.4	2.5	49	5	33	.15	4	.4	.6	42	KAO
		19	234	35.24	19	25.10	155	30.11	8.05	2.4	2.0	43	4	36	.10	7	.3	.8	33	KAO
		19	329	36.86	19	18.34	155	15.92	8.42	2.4	2.1	40	2	135	.10	4	.5	.6	37	SF1
		19	332	21.61	19	29.15	155	23.70	9.77	1.4	1.2	36	4	68	.12	1	.4	.6	26	KAO
		19	354	9.39	19	18.05	155	15.86	6.16	1.8	1.5	35	0	132	.12	5	.5	.9	30	SF1
		19	420	13.60	19	23.42	155	26.02	10.89	1.6	1.2	33	2	37	.09	3	.4	.5	26	KAO
		19	430	1.08	19	22.59	155	21.60	10.59		1.3	34	3	49	.10	4	.4	.6	25	KAO
		19	5 1	3.29	19	25.29	155	19.97	8.05	1.0	.9	21	3	130	.09	3	.5	1.1	16	KAO
		19	514	19.61	19	25.02	155	20.00	6.73		.9	20	3	124	.08	3	.5	1.2	15	KAO
		19	538	50.58	19	18.46	155	15.91	8.68	2.2	2.0	44	3	134	.11	4	.5	.5	34	SF1
		19	613	22.04	19	23.30	155	25.85	9.85	1.6	1.8	38	4	38	.12	3	.4	.6	32	KAO
		19	622	.21	19	28.49	155	25.79	7.09	2.9	2.9	50	6	63	.15	5	.4	.8	41	KAO
		19	632	37.13	19	29.13	155	26.00	9.27	3.0	3.1	51	5	43	.14	5	.4	.6	44	KAO
		19	636	20.08	19	22.77	155	30.03	9.39	2.1	1.5	37	0	80	.09	4	.4	.7	33	KAO
		19	657	52.91	19	27.09	155	26.56	5.35	1.9	1.1	33	4	50	.14	4	.4	1.3	24	KAO
		19	7 4	16.03	19	23.05	155	25.57	9.20	1.8	1.3	34	3	64	.11	4	.4	.7	29	KAO
		19	722	49.20	19	25.15	155	20.04	6.96		.6	20	2	107	.10	3	.5	1.0	16	KAO
		19	728	23.07	19	25.95	155	28.18	6.32	2.8	2.4	40	3	46	.11	5	.3	1.0	32	KAO
		19	742	25.81	19	26.61	155	22.90	8.94		2.7	49	4	48	.13	5	.4	.6	40	KAO
		19	837	17.22	19	25.51	155	20.74	10.75	1.4	.9	29	3	50	.09	4	.5	.9	25	KAO
		19	845	6.10	19	32.23	155	26.87	3.22	2.0	2.3	25	3	124	.12	1	.5	.6	22	MLO
		19	9 8	10.69	19	32.08	155	27.37	4.13	2.1	2.5	32	4	67	.13	1	.4	.5	25	MLO
		19	917	9.57	19	25.70	155	21.31	10.54	1.7	.9	29	2	47	.10	5	.4	.8	26	KAO
		19	918	34.62	19	25.07	155	30.02	10.28	3.2	3.2	49	5	35	.12	6	.3	.5	42	KAO
		19	922	4.92	19	26.30	155	29.61	9.84	1.8	1.4	28	2	67	.08	8	.5	1.1	26	KAO
		19	930	44.55	19	15.01	155	17.72	2.81	1.5	1.5	25	0	166	.10	6	.5	1.7	23	SWR
		19	935	24.97	19	27.25	155	29.67	10.66	3.0	3.2	50	5	34	.12	9	.3	.5	43	KAO
		19	947	7.52	19	27.36	155	25.07	9.61	2.2	2.2	44	5	40	.12	4	.4	.6	38	KAO
		19	951	21.25	19	22.61	155	20.76	11.01	1.8	1.2	30	3	45	.09	3	.4	.8	27	KAO
		19	1121	12.34	19	28.05	155	26.91	3.51	1.8	1.4	35	4	63	.13	6	.4	1.5	30	KAO
		19	1126	54.32	19	24.59	155	28.92	9.09	1.9	1.5	31	2	38	.08	5	.4	.8	27	KAO
		19	1130	32.21	19	25.08	155	21.44	11.98	3.0	3.2	46	5	34	.10	4	.5	.4	40	KAO
		19	1251	50.17	19	26.15	155	17.15	16.11	1.9	1.4	39	4	87	.10	2	.5	.4	35	DEP
		19	1343	40.32	19	27.58	155	25.43	9.84	1.9	2.1	42	4	47	.12	4	.3	.7	38	KAO
		19	1349	18.38	19	27.77	155	26.60	4.62	1.6	1.3	32	4	49	.14	5	.4	2.5	28	KAO
		19	1358	.31	19	27.32	155	25.64	6.25	1.9	2.5	35	3	44	.11	4	.5	1.0	32	KAO
		19	14 1	19.62	19	25.98	155	21.51	10.26	1.8	1.2	31	4	51	.10	3	.4	.8	26	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	19	14 7	58.92	19	26.82	155	29.09	10.85	2.2	2.4	39	2	45	.08	8	.3	.7	35	KAO
		19	1413	57.06	19	23.59	155	26.59	11.18		1.5	29	1	37	.11	3	.4	.9	28	KAO
		19	1459	23.59	19	25.60	155	21.05	10.13	1.7	1.2	34	4	47	.13	4	.5	.8	30	KAO
		19	1510	33.17	19	22.00	155	26.54	9.37	1.9	1.7	37	4	42	.11	2	.4	.7	33	KAO
		19	1533	42.40	19	27.17	155	29.58	10.23	2.3	1.9	43	4	46	.12	7	.4	.6	35	KAO
		19	1534	22.39	19	23.84	155	25.53	10.38	2.2	2.3	41	4	32	.11	3	.4	.6	34	KAO
		19	1540	16.62	19	20.47	155	24.31	11.34	1.6	.9	29	3	63	.12	2	.5	.9	23	SWR
		19	1616	28.28	19	27.56	155	24.44	8.49	1.4	.9	33	4	59	.12	4	.4	.8	23	KAO
		19	1629	16.23	19	27.58	155	23.39	1.61	2.2	2.4	43	5	42	.14	4	.3	.7	34	KAO
		19	1657	18.33	19	24.66	155	26.80	11.83	1.6	.9	22	2	75	.16	3	.9	1.3	19	KAO
		19	17 9	23.10	19	25.82	155	21.31	8.90	1.7	1.2	30	3	51	.11	5	.4	.7	24	KAO
		19	1817	.09	19	27.29	155	25.71	9.06	1.7	1.2	32	2	45	.14	4	.4	.9	28	KAO
		19	1827	24.16	19	23.27	155	26.60	10.04	2.1	2.2	40	3	39	.11	2	.3	.5	36	KAO
		19	1851	31.82	19	26.89	155	23.57	9.53	1.5	1.2	36	2	48	.11	4	.4	.6	26	KAO
		19	1951	19.62	19	26.39	155	29.34	10.42	2.2	2.2	46	3	36	.10	8	.3	.5	33	KAO
		19	2025	16.04	19	23.95	155	29.62	9.14	1.6	1.3	35	2	33	.10	4	.4	.8	24	KAO
		19	2026	14.87	19	22.01	155	28.62	5.15	1.7	1.5	33	3	42	.10	2	.3	.8	24	KAO
		19	2027	42.62	19	16.60	155	27.74	8.63	1.8	2.0	41	1	59	.14	5	.4	.8	28	LSW
		19	2034	18.94	19	27.81	155	24.72	7.57	2.2	2.1	40	2	38	.14	4	.4	.8	33	KAO
		19	2121	44.14	19	24.71	155	28.74	8.31	2.6	2.6	46	1	30	.12	5	.3	.7	40	KAO
		19	2133	6.54	19	24.90	155	19.02	6.20	1.2	1.2	27	5	120	.12	3	.4	1.0	19	KAO
		19	2138	33.29	19	28.00	155	26.25	9.37	2.4	2.1	45	6	70	.11	5	.3	.6	35	KAO
		19	2146	53.15	19	25.75	155	21.73	5.31	1.4	1.3	24	2	79	.11	4	.3	1.2	17	KAO
		19	2328	24.69	19	22.71	155	20.82	9.22		1.9	43	5	44	.12	3	.4	.5	36	KAO
		20	033	35.01	19	25.81	155	29.56	9.75	1.9	1.5	40	3	40	.12	7	.4	.7	29	KAO
		20	215	35.78	19	24.87	155	21.74	9.71	1.7	1.3	41	4	42	.12	4	.4	.6	33	KAO
		20	242	59.12	19	26.57	155	23.06	9.12	1.8	1.5	36	3	40	.14	4	.4	.8	25	KAO
		20	3 1	51.63	19	19.94	155	11.10	6.72	1.8	1.5	37	1	87	.13	5	.5	.8	25	SF3
		20	315	42.42	19	22.03	155	24.48	12.19	1.9	1.6	36	4	59	.12	4	.4	.6	30	KAO
		20	330	23.57	19	22.09	155	28.63	5.79	2.6	2.6	22	1	130	.11	2	.5	1.0	18	KAO
		20	355	59.09	19	22.57	155	20.96	10.39	1.4	1.7	24	1	91	.09	6	.4	.5	22	KAO
		20	356	43.30	19	22.38	155	28.37	6.90	3.2	3.5	25	0	63	.14	1	.5	1.0	16	KAO
		20	414	30.60	19	22.38	155	21.24	9.88	1.7	2.0	24	1	96	.11	5	.5	.7	17	KAO
		20	422	43.86	19	2.47	155	19.73	35.01	2.2	1.9	29	3	249	.08	19	1.5	1.3	25	LOI
		20	432	29.01	19	23.99	155	26.77	10.38	1.8	1.7	22	1	71	.10	3	.5	.9	17	KAO
		20	433	17.04	19	19.36	155	11.10	9.07	1.7	1.2	13	0	100	.04	5	.6	1.4	9	SF3
		20	443	19.33	19	26.28	155	29.36	9.75	1.8	1.3	23	0	65	.10	8	.5	1.1	15	KAO
		20	5 6	29.73	19	21.43	155	3.36	6.40	1.6	1.4	21	0	111	.12	3	.7	1.2	12	SFS
		20	5 8	19.97	19	20.03	155	17.42	4.58		1.1	9	0	118	.14	0	1.0	1.1	7	SWR
		20	548	1.72	19	27.38	155	26.72	5.20	2.6	2.2	27	0	65	.13	8	.4	1.8	16	KAO
		20	6 3	4.40	19	22.82	155	26.04	10.53	2.9	3.2	32	1	75	.11	3	.4	.4	19	KAO
		20	614	2.88	19	21.26	155	22.44	10.94		2.1	16	2	102	.07	2	.5	.8	16	SWR
		20	630	4.57	19	27.55	155	25.03	9.36	2.4	2.1	26	1	42	.12	5	.5	1.0	24	KAO
		20	633	37.92	19	25.06	155	21.59	11.24	1.6	.7	14	2	61	.04	8	.6	1.1	13	KAO
		20	714	53.97	19	27.89	155	27.06	8.87	1.8	1.2	17	2	62	.09	8	.5	1.2	15	KAO
		20	746	7.91	19	28.47	155	26.86	7.31	2.8	3.0	16	0	80	.09	7	.6	1.2	12	KAO
		20	835	50.57	19	24.46	155	20.23	7.56	1.7	1.5	37	5	44	.11	2	.4	.6	27	KAO
		20	853	17.08	19	26.23	155	29.67	9.36	1.8	1.4	37	3	41	.09	8	.4	.8	27	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	20	9 1	51.30	19	24.83	155	21.58	10.08	1.9	1.5	45	5	46	.13	4	.3	.5	34	KAO
		20	933	36.15	19	12.60	155	22.92	2.45	1.5	1.9	27	2	174	.10	4	.5	.8	19	SWR
		20	934	46.94	19	22.19	155	30.07	7.66	1.8	1.9	36	3	45	.12	4	.4	.9	30	KAO
		20	10 8	28.41	19	22.65	155	28.32	9.18	2.6	3.1	49	5	36	.12	1	.3	.5	43	KAO
		20	1019	29.73	19	22.96	155	26.58	10.16	1.6	1.3	34	4	51	.10	2	.4	.6	24	KAO
		20	1030	48.08	19	25.66	155	20.00	8.78	1.7	1.1	30	4	118	.10	4	.4	.7	21	KAO
		20	1132	36.89	19	28.28	155	26.74	8.35	1.7	1.5	36	3	61	.13	6	.4	1.0	27	KAO
		20	1133	54.43	19	21.96	155	1.83	7.22	2.1	1.8	35	5	147	.14	4	.5	.6	25	SF5
		20	1159	47.63	19	17.81	155	20.86	7.95	1.6	1.9	36	4	123	.11	4	.4	.7	24	SWR
		20	1217	42.28	19	25.39	155	19.88	7.78	1.8	1.3	33	5	60	.10	3	.3	.7	26	KAO
		20	1233	12.50	19	21.18	155	22.34	9.53	1.5	1.3	18	2	91	.10	2	.8	1.0	12	SWR
		20	13 0	24.17	19	24.65	155	25.12	7.79	1.7	1.3	40	5	34	.12	1	.3	.8	31	KAO
		20	1325	42.85	19	24.14	155	27.29	9.52	2.0	1.8	39	1	29	.11	3	.4	.7	30	KAO
		20	1338	45.69	19	16.78	155	15.33	5.03	1.6	1.6	30	1	169	.10	3	.6	1.1	21	SF1
		20	1342	22.64	19	18.51	155	13.91	5.47	1.2	.9	25	2	83	.11	3	.5	1.2	21	SF2
		20	1412	4.79	19	25.76	155	29.35	9.26	2.1	1.7	41	4	40	.11	7	.4	.8	31	KAO
		20	1432	32.79	19	27.43	155	27.01	5.41	1.8	1.3	33	3	51	.11	5	.3	1.1	23	KAO
		20	1441	12.98	19	25.15	155	29.90	8.58	2.0	1.3	37	3	41	.10	6	.3	.9	29	KAO
		20	1544	41.54	19	21.42	155	2.69	7.05	1.9	1.7	33	1	137	.14	3	.6	.6	26	SF5
		20	1614	34.97	19	24.04	155	25.79	10.61	1.9	1.5	37	2	32	.10	3	.4	.6	26	KAO
		20	1626	23.32	19	25.42	155	21.20	8.71	1.5	.9	29	6	84	.10	4	.4	.6	23	KAO
		20	1631	30.65	19	27.22	155	29.40	9.76		1.5	35	3	47	.11	8	.4	.9	23	KAO
		20	1636	24.92	19	25.18	155	22.32	10.59	2.0	1.4	37	3	42	.11	5	.4	.5	26	KAO
		20	1723	51.56	19	31.73	155	26.58	24.31	1.8	1.6	38	4	90	.10	2	.6	.9	28	DML
		20	1725	35.29	19	27.06	155	27.16	6.05	1.5	1.3	28	3	51	.11	5	.4	1.3	21	KAO
		20	1740	50.12	19	25.25	155	19.29	5.59	1.3	.9	22	3	125	.11	3	.5	1.2	17	KAO
		20	1919	15.48	19	23.95	155	27.62	10.00	1.8	1.5	35	1	33	.11	3	.4	.6	24	KAO
		20	1926	20.01	19	22.64	155	30.00	8.72	1.6	1.3	34	2	47	.11	4	.4	.9	26	KAO
		20	1948	47.06	19	19.07	155	13.01	5.07	1.7	1.4	39	2	83	.12	4	.4	1.3	31	SF2
		20	1951	45.26	19	22.92	155	25.74	10.46	2.6	3.0	48	4	39	.13	3	.3	.4	40	KAO
		20	1956	23.24	19	24.65	155	21.42	10.46	1.7	1.4	39	4	36	.12	4	.4	.5	29	KAO
		20	20 3	56.23	19	23.38	155	26.66	9.68	1.7	1.7	40	3	31	.11	2	.4	.6	32	KAO
		20	2012	53.95	19	22.65	155	2.23	6.69	1.3	1.1	29	4	141	.15	5	.6	.8	14	SF5
		20	2017	8.12	19	27.71	155	23.78	8.88	1.9	1.8	43	4	36	.13	4	.3	.6	30	KAO
		20	2018	21.85	19	22.30	155	1.51	6.70	2.1	2.2	40	6	148	.14	5	.5	.7	25	SF5
		20	2021	32.18	19	22.70	155	20.71	8.44	1.4	.7	27	5	44	.10	3	.4	.9	23	KAO
		20	2033	18.92	19	51.79	155	31.88	15.51	2.1	1.9	30	3	122	.12	12	.7	.9	16	KEA
		20	2036	36.09	19	28.62	155	38.23	4.61	1.2	1.2	26	3	81	.13	4	.5	1.2	20	MLO
		20	2055	23.48	19	24.76	155	21.58	10.40	1.5	.7	34	4	43	.11	4	.4	.5	26	KAO
		20	21 2	52.71	19	23.08	155	26.25	10.24	1.8	1.5	42	4	39	.11	3	.4	.5	36	KAO
		20	2125	2.56	19	27.36	155	23.49	10.35	1.9	1.7	46	7	41	.12	5	.5	.5	35	KAO
		20	2131	31.54	19	22.40	155	30.09	8.70	1.6	1.1	34	1	42	.10	4	.4	.8	24	KAO
		20	2144	29.55	19	23.28	155	26.31	10.06	1.6	1.3	33	1	32	.10	3	.4	.6	26	KAO
		20	2228	16.65	19	22.03	155	20.93	8.14	1.4	.6	27	6	80	.12	4	.4	.8	18	KAO
		20	2232	46.20	19	23.39	155	26.35	10.19	1.8	1.7	38	2	38	.11	3	.4	.5	33	KAO
		20	2312	22.77	19	21.62	155	2.82	7.99	1.8	1.5	29	3	130	.13	3	.6	.6	17	SF5
		20	2358	8.49	19	19.12	155	13.11	4.38	1.8	1.4	36	2	81	.15	4	.4	1.6	31	SSF
		21	0 8	26.28	19	27.86	155	25.63	7.62	1.9	1.3	43	4	38	.13	5	.4	.7	35	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	21	018	12.45	19	25.34	155	19.93	7.54	1.1	.6	24	2	114	.10	3	.5	1.1	19	KAO
		21	121	17.70	19	23.20	155	23.59	9.77	1.9	2.7	17	2	65	.13	5	.5	1.1	14	KAO
		21	255	26.50	19	27.75	155	25.20	8.73	1.6	1.1	37	4	42	.13	5	.4	.6	24	KAO
		21	334	.09	19	25.23	155	21.53	9.41	2.2	1.5	42	4	34	.13	4	.4	.5	34	KAO
		21	348	53.79	19	21.46	155	22.11	11.62	1.6	1.6	32	3	59	.10	3	.4	.6	22	SWR
		21	411	33.94	19	24.78	155	28.47	8.34	2.0	1.5	34	1	36	.10	5	.4	.8	30	KAO
		21	440	48.15	19	28.08	155	26.45	8.84	1.8	1.5	36	3	48	.12	6	.4	.9	29	KAO
		21	450	30.80	19	20.31	155	11.43	8.02	2.5	2.6	45	3	80	.13	4	.4	.6	35	SF3
		21	5 5	20.56	19	27.40	155	25.85	5.58	1.6	1.3	34	3	47	.12	4	.3	1.1	22	KAO
		21	534	10.24	19	26.12	155	28.99	9.16	1.7	1.2	31	3	44	.10	7	.4	.9	23	KAO
		21	629	21.31	19	15.08	155	22.63	7.15	1.3	1.5	29	1	163	.10	3	.5	1.0	21	SWR
		21	653	23.50	19	25.31	155	21.25	8.89	1.6		37	6	40	.13	4	.4	.7	28	KAO
		21	653	34.22	19	20.70	155	4.34	4.27	2.4	2.5	40	6	106	.22	3	.6	1.8	31	SSF
		21	7 7	22.24	19	22.87	155	27.68	9.87	2.2	2.2	37	4	48	.12	1	.4	.7	30	KAO
		21	818	54.04	19	22.73	155	20.74	8.79	1.7	1.7	44	6	44	.13	3	.4	.5	32	KAO
		21	10 9	29.30	19	21.11	155	28.68	8.84		1.7	30	1	47	.13	3	.5	.9	26	KAO
		21	13 3	32.01	19	24.04	155	26.42	10.20	1.8	2.1	37	3	36	.11	3	.4	.7	30	KAO
		21	13 4	54.51	19	27.16	155	22.84	9.72	2.8	2.8	47	4	41	.12	4	.4	.6	39	KAO
		21	1328	30.30	19	25.54	155	21.12	10.41	2.7	2.6	46	3	32	.12	4	.3	.5	39	KAO
		21	1359	10.49	19	21.57	155	2.44	7.42	2.1	2.6	39	3	135	.12	3	.5	.4	29	SF5
		21	14 2	8.73	19	27.48	155	26.88	5.18	1.6	1.1	30	5	65	.13	5	.3	1.4	24	KAO
		21	1448	45.74	19	22.15	155	29.93	8.83	2.6	3.1	46	2	33	.11	4	.3	.6	42	KAO
		21	1524	41.84	19	28.01	155	26.37	9.68	1.8	1.5	39	5	48	.12	6	.4	.8	30	KAO
		21	16 4	3.35	19	21.21	155	29.51	6.06	1.8	1.9	32	3	44	.12	4	.4	1.1	28	KAO
		21	1640	8.12	19	25.81	155	27.28	4.98	1.8	1.1	32	3	45	.11	4	.3	1.4	24	KAO
		21	1642	3.20	19	25.98	155	29.65	8.81	1.8	1.6	44	4	40	.11	7	.4	.8	36	KAO
		21	1645	3.85	19	27.87	155	27.11	5.53	1.4	1.1	30	5	66	.12	6	.3	1.0	19	KAO
		21	1718	30.20	19	24.92	155	19.14	5.56	1.1	1.1	23	4	99	.10	2	.4	1.0	18	KAO
		21	1720	57.60	19	24.78	155	19.29	6.87	2.5	2.7	39	3	37	.12	2	.4	.6	34	KAO
		21	1723	15.61	19	27.35	155	24.87	7.41	1.4	1.3	35	2	50	.14	4	.4	.8	25	KAO
		21	18 4	59.50	19	23.70	155	26.41	9.74	1.4	.9	27	3	37	.12	3	.5	.9	22	KAO
		21	1835	14.66	19	18.18	155	13.15	4.09		1.3	29	2	96	.09	2	.4	.8	21	SSF
		21	1849	19.41	19	26.48	155	22.80	7.38	1.9	1.6	44	5	40	.12	4	.3	.7	31	KAO
		21	1854	45.29	19	23.71	155	26.09	10.52	1.7	1.2	39	3	36	.12	3	.4	.6	31	KAO
		21	19 8	33.20	19	21.00	155	22.23	9.21	1.3	1.1	31	4	64	.11	2	.4	.8	20	SWR
		21	1928	7.98	19	27.17	155	26.48	6.51	2.3	2.2	46	6	50	.14	4	.3	.8	36	KAO
		21	2035	47.39	19	26.89	155	26.26	3.62	1.5	1.3	30	3	49	.15	4	.4	1.2	22	KAO
		21	2048	20.30	19	22.76	155	25.91	9.27	1.4	.9	34	3	47	.12	3	.4	.7	26	KAO
		21	2110	44.00	19	23.86	155	26.80	9.76	1.9	1.5	43	3	33	.12	3	.4	.6	34	KAO
		21	2136	3.05	19	27.97	155	27.29	8.49	2.1	2.0	45	6	57	.14	6	.4	.7	30	KAO
		21	2220	32.72	19	21.91	155	28.77	4.56	1.8	1.5	27	2	49	.11	2	.4	.9	21	KAO
		21	2250	34.74	19	20.22	155	23.12	8.81	1.1	1.0	17	3	92	.09	0	.6	.7	11	SWR
		21	2253	33.10	19	22.92	155	26.68	9.63		1.0	25	2	42	.13	2	.5	.9	18	KAO
		21	23 0	18.07	19	22.67	155	26.70	10.09	1.5	.9	37	5	41	.11	2	.4	.6	23	KAO
		21	2341	55.16	19	25.56	155	31.01	9.76	2.3	2.1	43	3	36	.10	8	.3	.7	36	KAO
		22	010	17.91	19	23.15	155	26.68	10.13	2.6	2.6	46	6	38	.13	2	.3	.5	41	KAO
		22	037	43.25	19	29.06	155	27.04	4.05	1.7	1.5	34	4	73	.12	6	.3	1.9	22	KAO
		22	124	45.12	19	26.85	155	19.79	8.26	1.1	.7	22	5	131	.10	2	.6	.9	15	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	22	344	54.72	19	22.45	155	30.03	8.87	1.7	1.1	36	3	45	.11	4	.4	.9	29	KAO
		22	410	3.08	19	54.37	156	6.59	42.89	2.1	2.1	29	6	254	.11	37	1.2	1.9	23	HUA
		22	439	15.73	19	18.86	155	13.38	9.30	3.1	3.1	50	6	77	.11	3	.4	.4	40	SF2 F
		22	512	8.21	19	22.23	155	2.36	7.16	2.1	1.3	37	3	139	.15	4	.6	.7	33	SFS
		22	520	20.26	19	8.65	155	35.30	8.72		1.6	25	1	123	.14	12	.7	1.1	17	LSW
		22	550	39.01	19	26.21	155	23.62	7.48	2.4	2.4	41	2	40	.13	3	.4	.9	34	KAO
		22	553	11.34	19	56.49	155	31.11	34.18	3.2	3.8	52	6	159	.12	19	.7	1.7	45	KEA F
		22	749	6.88	19	9.72	155	27.75	7.31	2.4	2.8	39	1	141	.13	0	.8	.6	31	LSW
		22	830	8.80	19	56.54	155	31.07	35.42	3.6	3.9	51	4	159	.10	19	.7	1.5	45	KEA
		22	1019	32.83	19	23.41	155	26.65	9.83	2.1	2.1	40	2	31	.12	2	.4	.6	31	KAO
		22	1032	37.57	19	18.99	155	13.31	6.23		1.1	21	1	78	.08	4	.5	1.3	14	SF2
		22	1039	26.11	19	24.43	155	30.11	9.09	1.9	1.8	40	3	34	.10	6	.3	.8	27	KAO
		22	1128	36.01	19	25.42	155	29.61	8.54	1.6	.9	33	3	39	.10	6	.4	1.0	22	KAO
		22	1237	12.03	19	27.78	155	25.39	4.79		1.3	24	4	48	.16	5	.5	2.7	17	KAO
		22	1327	25.18	19	13.62	155	22.63	3.35		1.3	23	2	163	.12	3	.6	.7	13	SWR
		22	16	0 59.42	19	25.49	155	29.60	7.71		1.3	39	4	38	.13	7	.4	1.1	32	KAO
		22	17	9 47.84	19	22.66	155	28.04	9.88		1.7	35	3	40	.11	1	.4	.6	27	KAO
		22	1726	13.05	19	25.10	155	27.82	8.34		1.5	32	2	56	.09	5	.4	.8	26	KAO
		22	1753	50.21	19	20.84	155	10.98	7.73		1.9	39	3	72	.13	3	.4	.7	33	SF3
		22	2026	41.30	19	25.19	155	21.11	8.93	1.7	1.4	40	6	38	.12	4	.4	.6	31	KAO
		22	2032	30.04	19	31.50	155	24.93	23.97	3.6	4.2	51	3	47	.12	4	.5	.9	47	DML F
		22	21	1 57.68	19	20.67	155	2.62	6.81		1.1	19	2	145	.09	2	.6	.9	13	SFS
		22	2155	4.31	19	28.39	155	27.75	2.64	2.5	2.4	48	6	54	.13	7	.3	1.1	40	KAO
		22	2233	33.72	19	25.99	155	21.42	10.78	1.8	1.2	27	3	76	.09	3	.5	.6	21	KAO
		22	2336	58.13	19	24.55	155	21.62	9.39	1.2	.6	27	3	62	.10	4	.5	.6	16	KAO
		22	2337	51.44	19	26.90	155	28.59	9.36	1.6	1.2	31	3	45	.11	7	.4	1.0	25	KAO
		23	0	4 1.79	19	25.29	155	21.13	8.84	1.3	.7	29	3	78	.10	4	.4	.7	23	KAO
		23	034	48.64	19	25.47	155	29.38	9.09	1.8	1.8	40	4	38	.11	6	.4	.8	28	KAO
		23	038	45.93	19	27.88	155	26.87	8.57	3.1	3.0	52	6	54	.12	6	.3	.6	42	KAO
		23	2	4 36.99	19	27.61	155	24.79	9.81	1.6	1.2	35	3	49	.12	4	.4	.7	21	KAO
		23	220	52.10	19	27.80	155	27.28	5.90	1.5	.9	39	6	50	.15	6	.4	1.4	22	KAO
		23	233	40.58	19	23.55	155	26.08	11.17	3.8	3.7	49	4	27	.12	3	.3	.4	45	KAO F
		23	250	17.85	19	25.74	155	23.31	9.50	2.1	1.7	40	7	39	.12	6	.3	.7	30	KAO
		23	3	4 17.03	19	18.85	155	13.16	5.61	1.3	1.1	18	2	83	.10	3	.5	1.4	16	SF2
		23	311	23.22	19	23.14	155	27.17	9.62	1.6	1.3	33	3	39	.12	1	.4	.8	26	KAO
		23	334	23.76	19	25.25	155	21.36	9.17	2.1	2.1	47	7	33	.14	4	.4	.5	34	KAO
		23	347	50.09	19	27.78	155	23.83	9.01	1.6	1.2	36	4	38	.11	4	.4	.7	27	KAO
		23	356	16.98	19	24.84	155	20.13	5.14	1.6	.9	27	4	45	.10	2	.3	.9	19	KAO
		23	515	23.23	19	25.59	155	21.73	9.78	2.0	2.1	44	5	33	.13	4	.4	.6	35	KAO
		23	622	41.19	19	24.85	155	20.47	7.63	2.3	2.7	42	5	37	.10	3	.3	.6	30	KAO
		23	741	37.22	19	25.68	155	21.54	10.43	2.3	2.4	44	6	32	.11	4	.4	.6	34	KAO
		23	1121	31.21	19	31.76	155	27.38	4.99	2.2	2.3	31	2	50	.13	1	.4	1.0	24	MLO
		23	1139	36.25	19	23.60	155	26.34	9.90	1.6	1.7	32	2	37	.10	3	.4	.7	27	KAO
		23	1143	33.09	19	21.44	155	22.11	11.36		1.3	29	1	59	.09	3	.4	.6	20	SWR
		23	12	5 14.33	19	22.73	155	30.22	8.09	1.6	1.5	31	2	46	.11	5	.4	.9	28	KAO
		23	1217	8.09	19	13.49	155	26.67	7.78	1.6	2.3	26	1	119	.13	5	.5	.8	17	LSW
		23	1224	10.84	19	32.20	155	26.62	2.80	2.0	2.3	19	1	125	.11	2	.4	.5	14	MLO
		23	1325	32.36	19	25.12	155	21.18	9.58	1.7	1.8	36	5	37	.11	5	.4	.6	28	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	23	14	4 59.29	19	25.36	155	19.89	8.80	1.6	1.1	26	4	107	.12	3	.4	.9	19	KAO
		23	14	8 9.26	19	25.25	155	20.99	10.08	2.2	2.2	44	6	33	.12	4	.4	.5	39	KAO
		23	1641	29.54	19	26.26	155	29.29	10.60	2.4	2.5	42	4	60	.11	8	.4	.8	37	KAO
		23	17	9 59.66	19	19.55	155	13.60	7.51	1.8	1.9	41	2	65	.11	5	.4	.7	35	SF2
		23	18	5 28.61	19	21.16	155	2.69	7.87	2.3	2.6	44	4	131	.13	2	.5	.5	38	SFS
		23	19	5 14.29	19	22.25	155	29.08	10.17	2.5	2.9	44	3	35	.11	3	.5	.6	41	KAO
		23	1910	27.70	19	27.42	155	28.10	8.48	1.8	1.2	31	4	55	.11	7	.4	1.0	20	KAO
		23	2020	34.47	19	25.31	155	21.11	8.90	1.7	1.3	36	6	41	.11	4	.4	.5	29	KAO
		23	2024	29.80	19	46.35	155	2.95	37.37	2.2	1.7	38	1	211	.11	7	1.1	2.2	34	HIL
		23	2032	45.11	19	27.81	155	27.42	2.82	2.1	1.1	38	5	56	.15	6	.4	1.1	27	KAO
		23	2038	57.36	19	25.25	155	19.83	4.02	1.5	1.1	21	4	103	.11	3	.4	.8	17	KAO
		23	21	0 55.19	19	24.61	155	24.36	9.16	2.0	2.0	43	6	38	.13	2	.4	.6	31	KAO
		23	2144	59.98	19	22.61	155	26.56	10.14	1.9	1.3	43	4	36	.12	2	.4	.6	34	KAO
		23	2159	23.84	19	22.70	155	24.86	13.21	1.8	1.4	38	5	40	.12	5	.5	.6	30	DML
		23	22	0 30.07	19	18.27	155	13.65	7.11	1.3	.6	16	2	96	.06	2	.6	1.2	14	SF2
		23	23	9 37.63	19	22.76	155	26.46	9.47	1.8	1.5	36	5	41	.12	2	.4	.6	26	KAO
		23	2317	54.03	19	22.70	155	29.97	7.96	1.9	1.5	33	2	55	.13	4	.4	1.0	21	KAO
		23	2337	31.79	19	27.29	155	25.53	8.19	2.1	1.5	41	5	43	.13	4	.5	.7	29	KAO
		23	2338	38.58	19	27.32	155	25.56	7.15	2.0	1.5	42	5	44	.15	4	.4	.8	31	KAO
		23	2344	19.38	19	27.28	155	27.49	6.14	2.3	1.8	41	4	53	.12	6	.3	.9	28	KAO
		23	2353	37.14	19	25.62	155	19.90	1.83	2.2	2.8	35	3	39	.14	4	.3	.6	26	KAO
		24	0	2 41.48	19	22.73	155	26.72	10.18	2.1	2.0	45	3	40	.12	2	.4	.5	36	KAO
		24	011	24.80	19	25.22	155	21.56	9.42	1.6	.9	36	4	39	.11	4	.4	.6	26	KAO
		24	011	57.40	19	24.78	155	21.86	10.92	1.8	1.5	34	3	51	.09	4	.4	.5	24	KAO
		24	2	8 2.36	19	28.20	155	26.28	6.48	1.7	1.1	34	4	48	.12	6	.4	.9	24	KAO
		24	229	19.85	19	27.37	155	25.72	4.91	1.9	1.5	41	4	45	.14	4	.3	1.5	32	KAO
		24	242	16.21	19	26.02	155	29.51	8.57	2.1	1.8	41	4	41	.14	7	.4	1.0	30	KAO
		24	250	15.23	19	21.54	155	30.59	8.46	2.8	2.8	44	2	32	.12	6	.4	.8	40	KAO
		24	334	40.16	19	22.59	155	30.07	8.05	1.9	1.5	35	2	45	.12	4	.4	.9	28	KAO
		24	345	25.55	19	14.35	155	32.85	7.33	1.9	1.5	39	2	114	.15	5	.5	.9	29	LSW
		24	357	31.39	19	23.24	155	26.88	9.06	1.9	1.5	36	3	41	.11	2	.4	.7	27	KAO
		24	447	14.97	19	29.29	155	23.68	9.05	2.7	2.1	49	7	42	.13	1	.3	.5	38	KAO F
		24	533	10.79	19	27.93	155	25.34	8.62	2.6	2.0	48	5	69	.14	5	.4	.6	38	KAO
		24	619	32.43	19	25.56	155	28.96	7.01	2.0	1.3	35	3	40	.13	6	.4	1.2	30	KAO
		24	633	45.91	19	27.32	155	25.57	9.23	1.7	1.4	33	3	45	.12	4	.4	.9	22	KAO
		24	740	56.46	19	24.83	155	25.67	9.56	1.6	1.3	38	3	34	.12	1	.4	.7	30	KAO
		24	838	15.38	19	21.44	155	29.84	9.75	2.1	1.6	27	0	44	.07	4	.4	1.0	27	KAO
		24	9	2 6.67	19	17.71	155	13.14	6.00	1.6	1.0	36	3	111	.09	1	.5	.9	24	SF2
		24	912	36.19	19	27.68	155	26.96	6.81	2.6	2.1	50	6	45	.12	6	.3	.6	41	KAO
		24	921	13.61	19	27.25	155	23.60	7.70	2.8	3.1	54	6	41	.16	5	.4	.7	44	KAO
		24	10	2 12.41	19	58.91	155	18.30	11.40	2.4	1.9	20	4	208	.11	11	1.0	.5	15	KEA
		24	1022	33.27	19	22.07	155	26.62	10.23	2.0	1.4	35	4	42	.11	2	.4	.7	28	KAO
		24	1032	36.53	19	22.51	155	26.99	9.13	1.9	1.8	34	1	41	.13	1	.4	.7	30	KAO
		24	1152	32.37	19	20.08	155	30.74	7.60	1.6	1.3	30	2	57	.11	7	.4	1.0	24	KAO
		24	1445	25.52	19	22.28	155	27.95	7.06	2.1	1.9	42	4	38	.13	1	.3	.7	36	KAO
		24	1456	15.63	19	27.28	155	28.44	8.85	1.8	1.0	32	2	54	.13	7	.4	1.0	19	KAO
		24	1528	30.25	19	28.69	155	26.14	9.38	1.8	1.0	39	3	55	.12	5	.4	.7	28	KAO
		24	1622	29.75	19	28.99	155	22.40	12.29	1.7	1.3	38	6	81	.11	2	.4	.5	28	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	24	1624	14.74	19	28.54	155	26.24	6.01	2.0	1.2	37	4	46	.12	6	.3	1.0	26	KAO
		24	1642	5.48	19	24.94	155	30.08	10.44	1.6	1.3	38	3	42	.10	6	.4	.7	26	KAO
		24	1643	39.46	19	23.94	155	25.42	9.80	2.0	1.7	21	3	59	.09	5	.4	.8	17	KAO
		24	1725	38.32	19	32.16	155	36.19	9.70	2.7	1.9	39	3	84	.14	2	.4	.6	30	MLO
		24	1730	14.14	19	30.49	155	37.02	9.19	1.6	1.2	30	2	95	.12	3	.7	.7	14	MLO
		24	1847	43.48	19	31.65	155	36.62	9.47	2.8	1.8	40	5	87	.15	3	.5	.5	27	MLO
		24	19	5 12.87	19	21.64	155	22.18	8.58	1.8	1.3	42	6	57	.14	3	.4	.6	28	SWR
		24	1929	31.48	19	25.54	155	21.58	9.56	2.1	1.7	50	7	33	.13	4	.3	.5	35	KAO
		24	1949	57.57	19	24.12	155	26.46	9.60	2.0	2.1	44	4	36	.13	5	.4	.6	33	KAO
		24	2048	53.66	19	23.99	155	26.44	9.40	1.8	1.3	38	2	33	.10	5	.4	.6	23	KAO
		24	2123	27.87	19	26.99	155	22.22	7.31	2.2	1.8	45	5	48	.14	3	.4	.8	35	KAO
		24	2150	27.47	19	20.12	155	24.76	11.95	1.8	1.2	41	7	63	.12	3	.4	.5	29	SWR
		24	2226	17.41	19	25.03	155	31.14	8.45	1.9	1.2	36	2	36	.10	8	.4	1.0	31	KAO
		24	2255	7.58	19	22.15	155	26.53	9.86	2.1	1.8	33	2	47	.12	2	.4	.6	27	KAO
		24	2257	28.85	19	21.91	155	21.63	11.78	1.4	.5	31	2	53	.09	4	.4	.6	23	SWR
		24	23	9 44.80	19	25.89	155	29.21	7.96	2.3	1.8	42	2	40	.12	7	.3	1.0	30	KAO
		25	035	57.36	19	31.97	155	36.93	8.18	1.7	1.2	32	4	112	.17	3	.6	1.0	27	MLO
		25	1	8 25.91	19	25.52	155	21.83	11.31	2.5	2.3	51	8	33	.11	4	.3	.4	40	KAO
		25	143	52.86	19	26.23	155	21.22	11.07	1.6	1.0	31	4	75	.10	3	.5	.7	26	KAO
		25	246	29.11	19	29.53	155	27.67	1.18	2.3	2.1	32	2	57	.14	8	.4	1.0	29	KAO
		25	259	43.12	19	29.06	155	27.70	5.86	2.6	2.4	44	5	56	.12	8	.3	1.3	39	KAO
		25	3	3 58.89	19	25.75	155	27.93	7.62	2.3	1.9	43	4	39	.13	5	.3	.9	33	KAO
		25	322	52.24	19	29.09	155	27.56	5.00	2.2	1.7	36	4	54	.11	8	.4	2.2	28	KAO
		25	457	23.56	19	26.35	155	23.36	10.38		.6	13	3	89	.09	5	.6	1.3	11	KAO
		25	529	3.30	19	28.42	155	25.08	9.26	2.0	1.3	16	2	64	.14	4	.6	1.2	7	KAO
		25	627	48.74	19	25.40	155	21.14	10.31	1.5	1.2	17	3	86	.09	4	.6	1.3	10	KAO
		25	714	5.70	19	25.68	155	19.80	8.12	2.3	2.2	24	3	115	.10	4	.5	.8	19	KAO
		25	729	12.77	19	23.92	155	17.66	21.52		.5	6	0	174	.01	4	3.6	6.9	4	DEP
		25	755	23.99	19	24.04	155	26.82	10.17		.9	24	0	52	.10	4	.6	1.2	24	KAO
		25	9	9 55.65	19	29.34	155	23.44	8.49	1.8	1.4	40	2	43	.12	1	.3	.6	33	KAO
		25	935	8.53	19	20.26	155	28.33	7.99	1.6	1.1	30	2	42	.14	4	.4	.9	19	KAO
		25	1045	59.10	19	22.26	155	27.52	9.80	2.1	1.8	36	4	42	.13	0	.4	.7	28	KAO
		25	1049	19.69	19	25.15	155	20.30	5.49	2.1	1.6	36	3	45	.12	3	.4	.9	24	KAO
		25	1314	28.78	19	20.07	155	28.45	9.70	1.8	1.5	34	2	41	.11	5	.3	.7	25	KAO
		25	1332	4.91	19	23.30	155	27.32	10.52	1.8	1.4	33	2	32	.10	2	.4	.7	22	KAO
		25	1343	51.47	19	27.51	155	25.87	8.67	2.1	1.1	44	6	47	.11	4	.3	.6	30	KAO
		25	1344	13.45	19	25.06	155	19.61	3.95	1.8	1.3	25	5	65	.12	3	.4	.7	19	KAO
		25	1513	7.86	19	21.52	155	1.76	7.17	2.2	2.0	44	4	156	.14	4	.6	.4	33	SF5
		25	1530	44.97	19	20.65	155	28.44	9.52	1.7	1.7	35	1	40	.11	4	.4	.7	26	KAO
		25	1730	4.20	19	25.26	155	20.66	7.21	2.0	1.3	30	3	46	.10	3	.4	.8	21	KAO
		25	1732	7.82	19	23.25	155	26.73	10.22	1.4	1.1	34	2	39	.11	2	.4	.8	24	KAO
		25	18	8 29.19	19	27.98	155	26.80	5.51	1.9	1.1	42	6	49	.13	6	.3	1.1	30	KAO
		25	1817	32.98	19	8.95	155	34.93	11.11	3.7	3.9	50	2	121	.17	12	.6	.6	41	LSW F
		25	2130	58.92	19	27.76	155	25.67	9.05	1.9	1.2	35	4	46	.11	5	.4	.8	28	KAO
		25	2143	43.87	19	28.12	155	27.49	6.47	1.9	1.1	37	5	50	.13	7	.4	1.4	28	KAO
		25	2213	31.64	19	22.83	155	20.63	10.54	1.9	1.4	33	4	43	.09	2	.4	.8	26	KAO
		26	1	8 3.39	19	18.92	155	13.45	10.07	2.1	2.4	42	6	130	.12	7	.5	.6	34	SF2
		26	114	18.34	19	28.74	155	26.63	7.60	2.1	1.1	36	5	48	.13	6	.4	1.0	29	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	26	129	12.44	19	21.91	155	1.97	8.42	2.4	1.7	38	3	144	.11	4	.6	.5	33	SF5
		26	252	19.94	19	27.41	155	26.78	8.60	1.8	1.1	27	4	64	.11	5	.4	1.0	22	KAO
		26	341	25.73	19	22.25	155	30.26	10.27	1.7	1.3	26	1	47	.06	5	.4	.9	25	KAO
		26	458	39.05	19	23.62	155	27.53	10.16	1.7	1.2	27	3	64	.08	2	.4	.8	24	KAO
		26	516	55.05	19	23.27	155	21.16	10.63	2.0	1.1	38	3	42	.10	5	.4	.7	33	KAO
		26	525	21.37	19	24.00	155	26.83	10.96	1.6	1.2	30	2	49	.10	3	.4	.8	26	KAO
		26	545	55.07	19	23.39	155	26.29	10.94	1.5	1.2	28	2	49	.11	3	.5	.9	25	KAO
		26	614	1.55	19	22.70	155	26.76	11.04	2.2	1.8	46	5	41	.12	2	.4	.5	39	KAO
		26	619	59.99	19	23.17	155	26.69	10.66	1.6	1.2	32	3	48	.11	2	.4	.8	26	KAO
		26	627	18.75	19	30.91	154	55.19	27.78	2.7	2.3	48	5	79	.10	3	.8	1.2	42	LER
		26	730	3.27	19	25.35	155	19.89	8.69	1.8	1.4	28	5	89	.10	3	.4	.9	23	KAO
		26	9	7 .72	19	27.00	155	26.56	8.91	1.9	1.1	35	2	51	.10	4	.4	.8	29	KAO
		26	934	55.23	19	21.91	155	30.31	9.84	1.9	1.4	29	2	45	.07	5	.4	.9	23	KAO
		26	1023	28.20	19	22.03	155	5.54	7.20	1.8	1.5	33	4	77	.13	4	.5	1.0	29	SF4
		26	1347	21.73	19	26.00	155	29.08	10.04	2.0	1.4	36	3	41	.09	7	.4	.9	30	KAO
		26	15	2 58.31	19	28.50	155	38.60	3.11	2.1	1.5	29	4	81	.19	5	.6	1.1	26	MLO
		26	16	3 8.99	19	23.36	155	20.51	9.94	1.7	1.1	32	4	53	.10	2	.4	.7	25	KAO
		26	1617	46.25	19	23.43	155	27.40	11.42	2.2	2.1	44	3	31	.12	2	.4	.6	37	KAO
		26	17	8 52.55	19	28.29	155	27.29	9.14	3.0	3.2	50	5	40	.12	7	.3	.7	44	KAO F
		26	1841	45.55	19	25.81	155	19.89	8.04	1.5	1.1	29	5	101	.11	4	.4	.9	23	KAO
		26	20	6 21.23	19	23.58	155	27.02	11.49	2.3	2.4	45	3	29	.12	2	.4	.6	39	KAO
		26	2059	13.53	19	17.70	155	23.65	9.52	2.0	2.3	42	4	93	.14	5	.4	.6	34	SWR
		26	2144	38.04	19	18.36	155	13.40	7.14	1.7	1.3	37	4	82	.10	2	.4	.8	29	SF2
		26	22	2 37.43	19	26.48	155	29.71	10.37	1.9	1.2	33	4	43	.09	6	.4	1.0	27	KAO
		26	2317	44.24	19	29.44	155	30.00	2.86	2.7	2.7	45	3	36	.11	6	.3	1.3	35	KAO
		26	2356	44.63	19	21.61	155	27.95	8.97	1.6	1.2	29	1	43	.11	2	.4	.7	19	KAO
		27	037	1.88	19	23.57	155	25.67	10.46	1.4	1.0	38	3	35	.12	3	.4	.6	28	KAO
		27	051	25.08	19	21.64	155	28.56	8.52	1.9	1.7	41	3	38	.13	2	.4	.8	33	KAO
		27	255	15.93	19	24.86	155	21.65	10.85	1.9	1.4	40	3	35	.10	4	.4	.5	30	KAO
		27	330	8.44	19	24.58	155	21.57	10.74	1.7	1.2	42	7	44	.12	4	.4	.6	35	KAO
		27	342	26.81	19	25.23	155	21.83	10.22	1.6	1.2	42	4	39	.11	5	.4	.5	27	KAO
		27	424	3.27	19	26.47	155	29.41	8.50	1.8	1.3	38	3	43	.10	8	.4	.9	31	KAO
		27	433	14.71	19	25.07	155	20.09	5.21	1.4	1.1	19	4	91	.10	3	.4	1.0	13	KAO
		27	434	34.71	19	24.60	155	29.77	7.57	1.6	1.1	29	1	35	.11	5	.4	1.1	25	KAO
		27	436	42.81	19	22.76	155	26.02	9.71	1.7	1.2	39	4	40	.13	3	.4	.6	26	KAO
		27	610	44.68	19	23.96	155	17.15	15.74	1.8	1.4	44	7	55	.09	1	.4	.3	31	DEP
		27	722	18.43	19	22.88	155	27.16	9.24	1.4	.9	32	2	40	.14	1	.4	.7	23	KAO
		27	927	31.66	19	21.48	155	2.99	8.87	3.9	4.0	52	4	117	.11	3	.5	.4	46	SF5
		27	946	27.14	19	21.18	155	2.85	7.40	2.4	2.3	41	3	124	.13	2	.6	.5	32	SF5
		27	1023	5.14	19	21.42	155	2.71	7.89	1.5	1.2	19	0	128	.12	3	.6	1.2	13	SF5
		27	1047	18.22	19	21.79	155	2.83	6.09	1.8	1.1	24	2	122	.13	3	.5	1.3	17	SF5
		27	1055	54.45	19	23.11	155	27.14	9.59	2.1	2.0	42	3	33	.11	1	.4	.6	33	KAO
		27	13	1 12.79	19	21.68	155	24.15	13.74	3.2	3.4	47	6	42	.11	3	.4	.3	41	DEP
		27	14	6 28.15	19	22.09	155	24.10	11.57	2.1	2.1	42	6	29	.12	4	.4	.5	30	KAO
		27	1520	41.98	19	22.34	155	27.46	10.80	3.5	3.5	50	3	39	.13	0	.3	.4	47	KAO
		27	1524	19.71	19	22.46	155	20.95	10.42	1.7	2.2	48	7	47	.11	3	.4	.4	33	KAO
		27	1539	18.48	19	22.29	155	27.50	9.69	3.1	2.9	50	6	40	.11	0	.3	.4	42	KAO
		27	1750	12.20	19	21.98	155	28.50	4.13	2.3	2.3	35	3	42	.11	2	.3	.6	26	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	27	19 2	49.10	19	19.91	155	13.29	6.88	1.3	1.1	24	1	68	.11	5	.6	1.0	20	SF2
		27	1911	17.71	19	22.58	155	21.00	9.50	1.7	1.1	30	6	47	.08	3	.4	.7	22	KAO
		27	1931	59.18	19	11.22	155	27.81	7.59	2.2	1.8	32	3	111	.13	3	.5	.9	22	LSW
		27	1933	28.13	19	29.20	155	27.41	7.11	3.7	3.7	49	4	42	.13	5	.4	.7	45	KAO
		27	2127	54.11	19	30.65	155	26.87	3.75	1.8	1.6	26	3	93	.13	3	.4	.9	21	MLO
		27	2129	29.76	19	21.39	155	30.32	9.50	3.3	3.4	49	4	32	.12	5	.3	.5	42	KAO
		27	22 5	51.93	19	4.19	156	15.06	34.92	2.9	3.0	45	1	283	.09	46	2.2	1.8	38	KON
		28	220	49.77	19	25.57	155	21.63	9.73	1.6	1.5	37	3	33	.13	4	.4	.6	28	KAO
		28	229	43.38	19	25.40	155	21.08	8.61	1.6	1.5	43	5	38	.13	4	.4	.6	29	KAO
		28	252	45.53	19	25.85	155	19.70	7.66	1.5	1.1	21	2	129	.09	4	.5	1.0	17	KAO
		28	314	4.78	19	23.74	155	26.27	10.72	2.4	2.5	45	3	26	.13	3	.4	.6	37	KAO
		28	411	33.69	19	21.31	155	21.88	10.36	1.4	1.3	28	3	60	.10	3	.5	.7	18	SWR
		28	526	50.50	19	21.91	155	28.16	8.89	1.6	1.1	34	1	39	.13	1	.4	.7	25	KAO
		28	712	7.57	19	20.16	155	11.43	8.59	1.7	1.8	38	2	82	.11	4	.4	.5	23	SF3
		28	722	28.91	19	25.31	155	21.29	8.62	1.7	1.3	42	6	33	.14	4	.4	.6	37	KAO
		28	734	21.47	19	25.94	155	20.87	9.76	1.6	.9	25	4	93	.09	3	.5	.9	18	KAO
		28	748	26.22	19	26.72	155	23.37	11.18	2.1	1.9	40	4	65	.11	4	.4	.5	23	KAO
		28	8 0	34.09	19	24.67	155	20.36	7.13	1.5	1.3	33	4	45	.12	2	.4	.8	25	KAO
		28	8 6	6.38	19	18.95	155	13.56	5.12	1.3	1.1	28	2	71	.13	4	.5	1.5	20	SF2
		28	8 7	44.04	19	21.96	155	2.18	7.35	2.9	3.1	42	4	138	.13	4	.5	.5	32	SFS F
		28	822	20.29	19	25.75	155	29.55	7.96	2.3	1.8	43	4	40	.13	7	.4	1.0	32	KAO
		28	1056	42.74	19	25.83	155	29.21	9.38	2.3	1.7	39	3	40	.11	7	.4	.9	24	KAO
		28	1113	.19	19	26.58	155	23.55	11.21	2.3	2.3	36	6	63	.11	4	.4	.6	26	KAO
		28	1510	56.46	19	26.24	154	55.80	5.31	2.2	2.2	32	1	152	.12	2	.6	.8	25	LER
		28	1627	10.41	19	19.38	155	15.31	6.44	1.7	1.6	36	3	88	.11	4	.4	.8	26	SF1
		28	1729	56.69	19	15.54	155	32.21	6.36	2.3	2.4	41	3	102	.18	4	.5	1.2	33	LSW
		28	1745	2.39	19	23.80	155	25.97	7.08	2.2	2.3	43	3	32	.13	3	.3	.8	32	KAO
		28	2119	24.00	19	24.03	155	25.59	7.49	1.8	1.6	38	3	35	.14	2	.4	.9	29	KAO
		28	2352	9.59	19	22.56	155	26.90	10.06	1.9	1.8	41	5	42	.12	1	.4	.6	32	KAO
		29	0 9	27.93	19	25.49	155	30.92	9.94	2.2	1.7	39	2	37	.10	8	.4	.7	31	KAO
		29	151	58.01	19	17.47	155	12.94	5.81	1.8	1.8	24	2	138	.12	1	.6	1.1	16	SF2
		29	233	4.76	19	24.87	155	21.59	10.45	1.7	1.7	39	5	36	.11	4	.4	.5	27	KAO
		29	321	17.28	19	25.74	155	21.75	10.38	1.7	1.4	38	5	32	.11	4	.4	.5	21	KAO
		29	339	52.58	19	25.31	155	19.64	2.95	1.6	1.7	27	6	110	.14	3	.3	.6	17	KAO
		29	6 0	20.54	19	21.44	155	2.51	7.01	1.3	1.3	20	1	144	.14	3	.7	1.3	11	SF5
		29	830	26.30	19	25.85	155	27.50	7.21	2.2	1.9	34	1	39	.12	4	.4	1.1	33	KAO
		29	9 5	2.18	19	25.09	155	21.03	10.03	2.2	2.3	39	1	39	.09	4	.4	.6	38	KAO
		29	1019	54.64	19	22.53	155	23.26	14.12	3.7	4.1	50	4	45	.11	4	.4	.3	46	DML F
		29	1045	2.97	19	21.63	155	21.74	8.12	1.7	1.3	30	3	56	.11	4	.4	.9	23	SWR
		29	11 8	41.26	19	26.20	155	29.15	9.10	2.2	2.2	41	4	42	.12	7	.4	.8	32	KAO
		29	1445	49.86	19	22.99	155	26.64	10.12	2.2	2.0	44	4	39	.13	2	.4	.5	35	KAO
		29	1543	11.65	19	22.53	155	23.25	13.50	3.1	3.1	51	5	45	.11	4	.4	.3	43	DML
		29	1654	49.39	19	21.86	155	.23	6.16	2.4	2.5	45	6	177	.20	6	.7	.8	31	SF5
		29	1836	20.14	19	22.15	155	30.09	8.50	2.0	2.1	38	3	46	.12	4	.4	.8	32	KAO
		29	1919	2.54	19	25.34	155	21.30	9.79	2.5	2.5	50	7	33	.12	4	.3	.4	38	KAO
		29	2131	51.32	19	23.88	155	27.03	10.11	2.0	2.1	42	3	36	.12	3	.4	.6	32	KAO
		29	2138	15.33	19	23.86	155	26.94	10.11	1.9	2.1	44	3	32	.11	3	.4	.5	36	KAO
		29	2235	29.30	19	18.80	155	12.90	5.52	1.3	1.1	22	1	90	.12	3	.5	1.4	20	SF2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	30	152	6.41	19	27.02	155	26.02	3.93	2.1	1.8	40	3	48	.13	4	.3	1.2	30	KAO
		30	227	22.63	19	22.09	155	2.76	5.70	1.8	1.3	26	2	122	.18	4	.7	1.7	15	SFS
		30	515	55.96	19	25.45	155	21.34	8.92	2.0	1.5	42	9	32	.13	4	.3	.6	33	KAO
		30	555	59.79	19	23.38	155	20.43	10.09	1.9	1.3	28	6	56	.07	1	.4	.8	20	KAO
		30	647	26.19	19	25.25	155	21.09	8.00	1.6	1.1	35	6	40	.12	4	.4	.7	28	KAO
		30	1559	50.84	19	26.98	155	23.64	8.09	2.3	2.1	42	3	47	.12	4	.4	.7	33	KAO
		30	1618	47.94	19	25.59	155	20.54	10.02	1.7	1.2	35	6	76	.10	4	.4	.6	24	KAO
		30	1638	44.79	19	20.21	155	12.64	5.95	1.4	1.1	22	1	72	.11	5	.6	1.4	15	SF2
		30	1720	6.63	19	27.73	155	26.66	8.18	2.4	1.7	35	4	69	.13	5	.4	1.0	28	KAO
		30	1725	24.71	19	24.95	155	20.94	8.58	1.9	1.7	30	4	43	.10	3	.4	.7	23	KAO
		30	20 6	58.43	19	23.18	155	25.47	10.23	1.8	1.7	45	7	30	.12	4	.4	.6	30	KAO
	DEC	1	013	25.83	19	21.83	155	21.51	11.04	1.8	1.5	38	6	54	.11	4	.3	.4	24	SWR
		1	113	11.78	19	25.54	155	28.34	5.12	1.9	1.3	26	1	58	.11	6	.4	1.9	22	KAO
		1	543	21.18	19	25.61	155	23.43	8.70	2.5	2.5	47	4	39	.12	3	.3	.5	41	KAO
		1	642	52.50	19	25.04	155	21.35	10.60	1.6	1.2	32	4	42	.09	4	.4	.6	26	KAO
		1	7 1	.65	19	22.42	155	29.96	8.43	2.1	1.3	36	1	40	.13	4	.4	.9	31	KAO
		1	716	31.96	19	23.99	155	26.94	10.20	2.2	2.2	43	4	33	.13	3	.4	.6	35	KAO
		1	733	47.36	19	25.86	155	24.13	7.96	2.2	2.3	41	3	41	.12	2	.3	.8	32	KAO
		1	10 3	48.69	19	25.51	155	29.40	10.20	1.6	1.2	30	2	39	.10	6	.4	.9	21	KAO
		1	1149	23.64	19	21.72	155	30.12	9.19	2.7	2.5	41	3	33	.10	5	.4	.8	30	KAO
		1	12 5	36.16	19	25.95	155	27.13	5.63	2.2	2.2	41	4	60	.13	4	.4	1.1	32	KAO
		1	1239	33.78	19	27.50	155	27.19	6.29	2.6	2.4	46	6	57	.11	6	.3	.8	34	KAO
		1	17 9	40.92	19	22.87	155	1.88	4.46		1.2	20	1	177	.13	5	.8	2.8	17	SSF
		1	1829	22.83	19	22.66	155	20.76	9.24	1.7	1.3	42	7	45	.10	3	.3	.5	27	KAO
		1	2220	10.74	19	24.92	155	21.52	11.06	2.4	2.5	51	6	35	.11	4	.3	.4	40	KAO
		1	2226	42.63	19	22.36	155	29.04	10.15	2.5	2.6	47	2	36	.11	3	.3	.5	42	KAO
		1	2321	28.90	19	27.25	155	15.35	32.24	2.7	2.6	50	3	50	.10	5	.5	.9	46	DEP
		2	030	19.25	19	26.49	155	29.50	9.12	1.7	1.2	34	2	43	.11	8	.4	.9	24	KAO
		2	039	25.78	19	15.08	155	35.46	6.88	2.6	2.4	40	3	102	.19	3	.6	1.1	34	LSW
		2	140	57.06	19	26.42	155	29.98	9.19	2.0	1.4	41	4	42	.10	8	.4	.8	32	KAO
		2	256	4.54	19	21.43	155	2.67	7.21	2.1	2.1	35	3	129	.13	3	.5	.6	29	SFS
		2	442	19.47	19	22.35	155	24.75	13.46	2.0	1.2	36	4	40	.11	5	.5	.5	29	DML
		2	633	52.23	19	23.34	155	26.61	9.34	1.9	1.2	36	5	38	.12	2	.4	.6	29	KAO
		2	846	16.99	19	25.13	155	29.44	7.78	1.6	1.1	31	2	37	.12	6	.4	1.1	25	KAO
		2	10 8	24.64	19	21.08	155	3.26	4.83	1.3	1.3	21	2	112	.12	2	.5	1.2	13	SSF
		2	1014	52.33	19	20.23	155	30.17	7.53	2.0	1.5	36	2	52	.13	6	.4	1.0	28	KAO
		2	1047	17.27	19	27.18	155	23.42	11.41	2.1	2.1	46	7	75	.13	5	.4	.5	35	KAO
		2	1157	36.23	19	24.96	155	21.39	9.95	2.0	2.2	48	7	35	.12	4	.4	.5	37	KAO
		2	1411	7.43	19	25.31	155	20.95	9.13	1.7	1.5	40	8	82	.10	4	.4	.5	34	KAO
		2	1428	16.47	19	41.33	155	3.58	6.72	2.5	2.9	27	0	184	.15	30	1.0	3.4	17	HIL A
		2	1532	8.19	19	22.54	155	20.79	10.76	2.7		53	7	46	.11	3	.3	.4	41	KAO
		2	1620	23.91	19	23.83	155	16.88	14.39	1.8	1.4	44	5	43	.10	1	.5	.3	32	DEP
		2	1632	36.16	19	26.67	155	28.32	9.46	1.9	1.5	37	3	56	.11	6	.4	.8	26	KAO
		2	1735	13.05	19	26.72	155	28.78	9.47	2.4	2.1	47	5	42	.12	7	.3	.6	31	KAO
		2	1737	33.13	19	27.13	155	15.26	31.66	2.4	2.4	46	2	50	.10	5	.6	1.0	44	DEP
		2	1839	6.13	19	25.42	155	29.60	7.11	2.2	1.5	39	3	38	.13	6	.4	1.1	27	KAO
		2	1926	7.10	19	28.67	155	23.99	9.97	1.8	1.2	36	2	68	.13	2	.5	.7	27	KAO
		2	23 7	53.99	19	21.56	155	5.88	8.38	2.5	3.1	42	3	86	.11	4	.4	.5	32	SF4

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	2	2342	28.76	19	29.16	155	26.10	7.61	2.3	2.1	43	4	42	.15	5	.4	.8	33	KAO
		3	222	29.63	19	26.07	155	29.22	6.67	1.8	1.3	34	2	41	.12	7	.4	1.4	24	KAO
		3	240	5.28	19	24.76	155	20.26	7.66	1.4	1.1	28	4	75	.12	2	.4	.8	23	KAO
		3	3 9	22.78	19	29.03	155	27.76	4.97	2.3	1.9	38	2	64	.17	6	.4	1.8	34	KAO
		3	321	4.45	19	26.22	155	19.73	7.54	1.6	1.3	26	4	103	.12	3	.5	.9	20	KAO
		3	515	49.36	19	27.86	155	26.82	7.08	1.9	1.3	33	4	49	.12	6	.4	.9	20	KAO
		3	547	38.77	19	21.73	155	26.61	9.91	1.5	1.1	27	1	46	.11	2	.4	.8	19	KAO
		3	819	19.91	19	25.79	155	27.84	6.30	2.0	1.9	32	2	40	.11	5	.4	1.2	24	KAO
		3	1046	16.37	19	18.33	155	29.78	5.83	2.4	2.6	39	2	42	.16	6	.4	1.3	30	LSW
		3	1522	53.69	19	28.64	155	27.11	3.43	2.2	2.0	34	2	55	.16	6	.4	1.9	26	KAO
		3	1618	42.79	19	22.66	155	21.55	8.62	1.8	1.5	36	4	47	.14	4	.4	.7	25	KAO
		3	1737	16.30	19	23.38	155	27.44	9.49	1.9	1.3	32	2	38	.11	2	.4	.7	23	KAO
		3	1946	58.93	19	25.43	155	21.04	9.07	2.0	2.2	40	5	39	.14	4	.4	.6	31	KAO
		3	2024	32.15	19	27.68	155	25.96	7.70	2.1	1.3	36	4	68	.12	5	.4	.8	21	KAO
		3	2227	44.09	19	18.37	155	19.35	5.75	1.3	1.3	22	3	104	.12	1	.5	1.0	19	SWR
		3	2322	46.71	19	25.81	155	19.69	7.41	1.6	1.3	27	4	95	.10	4	.4	.7	20	KAO
		4	223	10.64	19	25.63	155	21.12	9.01	1.5	1.1	22	3	82	.09	4	.4	.9	17	KAO
		4	323	17.55	19	26.98	155	23.43	11.99	2.1	2.2	43	5	41	.12	4	.4	.5	28	KAO
		4	647	29.78	19	25.15	155	22.13	10.23	1.8	1.3	30	5	45	.12	5	.5	.7	23	KAO
		4	739	19.99	19	28.81	155	27.77	6.88	3.2	3.7	45	5	54	.14	6	.4	1.0	37	KAO
		4	756	5.72	19	25.24	155	21.59	9.09	1.9	1.5	26	1	40	.10	4	.5	.9	20	KAO
		4	854	28.95	19	23.68	155	27.10	9.79	1.8	1.3	31	1	37	.12	2	.4	.7	20	KAO
		4	856	25.10	19	20.32	155	4.00	6.94	2.8	3.1	39	4	121	.09	2	.5	.5	30	SF5
		4	939	47.21	19	25.28	155	19.39	5.76	1.8	1.8	22	5	112	.12	3	.5	1.2	16	KAO
		4	1021	8.81	19	21.88	155	30.41	8.51	2.7	2.8	41	1	32	.12	5	.4	.8	37	KAO
		4	1048	27.09	19	26.72	155	24.12	6.98	1.9	1.3	25	3	60	.13	3	.4	1.1	17	KAO
		4	1143	32.74	19	21.09	155	3.12	7.78	3.5	3.9	42	4	122	.11	2	.6	.4	38	SF5
		4	1236	43.03	19	25.19	155	21.42	10.09	2.0	1.7	39	4	34	.12	4	.4	.6	32	KAO
		4	1512	53.06	19	25.37	155	21.47	8.40	1.8	1.8	34	4	34	.13	4	.4	.7	30	KAO
		4	1529	15.64	19	35.46	156	7.21	14.13	3.0	3.5	43	1	246	.15	31	1.9	1.2	41	KON
		4	1735	25.48	19	22.34	155	30.38	9.22	1.8	1.3	28	1	47	.10	5	.4	1.0	23	KAO
		4	1827	34.35	19	25.27	155	21.40	10.55	2.0	2.0	40	4	33	.12	4	.4	.5	31	KAO
		4	1951	41.39	19	27.56	155	25.47	8.19	3.7	3.9	44	2	47	.15	4	.4	.7	41	KAO
		4	2024	52.51	19	25.16	155	30.59	9.32	2.3	1.8	34	3	44	.10	7	.4	.9	25	KAO
		4	2035	27.68	19	23.87	155	27.16	9.66	1.6	1.1	32	2	36	.12	3	.4	.7	20	KAO
		4	2040	37.83	19	28.84	155	25.77	8.86	1.9	1.2	25	3	56	.12	5	.4	.8	21	KAO
		4	2047	17.17	19	25.63	155	21.10	8.66	1.8	1.5	28	4	46	.12	4	.4	.7	19	KAO
		4	2051	8.97	19	23.14	155	27.67	10.74	2.1	2.1	38	2	37	.13	1	.4	.6	29	KAO
		4	2113	16.78	19	22.41	155	23.18	8.34	1.6	1.1	22	3	106	.11	6	.5	1.1	14	KAO
		4	2133	55.67	19	24.62	155	20.38	8.32	1.6	1.3	34	4	45	.12	2	.4	.7	21	KAO
		4	2141	26.55	19	25.56	155	21.50	8.73	1.5	1.1	24	4	72	.10	4	.4	.8	17	KAO
		4	2241	41.43	19	25.05	155	30.22	10.74	2.6	2.5	43	5	34	.10	7	.3	.5	32	KAO
		5	330	37.46	19	22.63	155	21.12	8.59	2.1	1.5	27	5	46	.10	3	.4	.7	22	KAO
		5	517	55.45	19	23.27	155	26.99	5.56	2.5	2.7	41	3	39	.13	2	.3	.8	31	KAO
		5	611	31.90	19	24.62	155	20.45	7.53	2.2	2.2	37	4	37	.11	2	.4	.7	30	KAO
		5	750	35.50	19	24.99	155	25.47	10.79	2.5	2.8	30	1	52	.11	6	.4	.7	17	KAO
		5	1128	49.70	19	24.94	155	29.05	9.21	2.1	1.5	36	3	37	.09	5	.4	.8	28	KAO
		5	1131	21.62	19	20.22	155	3.81	6.85	2.0	2.3	39	2	124	.12	2	.7	.6	31	SF5

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	5	1313	48.34	19	31.82	155	27.42	4.18	2.9	3.5	41	4	45	.11	1	.3	.7	32	MLO
		5	1326	41.31	19	28.64	155	27.90	3.47	2.1	1.5	36	4	58	.14	6	.4	1.8	28	KAO
		5	1335	20.08	19	26.79	155	25.04	9.25	1.9	1.3	37	4	50	.12	3	.4	.7	27	KAO
		5	14 2	23.22	19	19.63	155	13.25	9.11	2.6	3.4	42	3	71	.11	5	.4	.5	34	SF2
		5	1517	17.50	19	29.42	155	23.51	9.40	2.3	1.5	42	5	43	.12	1	.4	.6	28	KAO
		5	1817	30.50	19	22.12	155	17.15	31.24	2.4	1.9	44	4	44	.12	2	.7	.9	35	DEP
		5	1820	29.08	19	20.43	155	13.26	7.40	1.6	1.3	37	3	63	.12	4	.5	.7	26	SF2
		6	027	11.08	19	27.86	155	26.12	7.20	1.5	1.1	39	5	47	.13	5	.4	.8	30	KAO
		6	1 9	46.53	19	28.44	155	26.45	10.50	2.1	2.2	43	3	62	.12	6	.4	.6	33	KAO
		6	120	12.89	19	29.06	155	26.22	7.63	3.0	3.1	48	4	57	.12	5	.3	.7	39	KAO
		6	2 6	20.66	19	19.01	155	15.35	6.45	1.3	1.1	22	1	104	.10	4	.5	1.2	18	SF1
		6	214	2.40	19	20.35	155	30.48	8.19	2.4	2.4	40	3	42	.12	6	.4	.7	33	KAO
		6	354	43.68	19	23.77	155	26.61	10.18	1.8	1.1	27	1	52	.12	3	.5	.7	21	KAO
		6	5 9	3.49	19	19.12	155	14.44	6.21	1.2	1.3	13	2	196	.09	6	1.1	1.7	10	SF2
		6	741	14.98	19	27.65	155	15.20	32.29	3.3	4.1	40	1	41	.12	6	.6	1.4	33	DEP
		6	746	58.15	19	28.15	155	27.00	9.41	2.2	2.1	26	3	56	.10	6	.4	.9	20	KAO
		6	8 6	10.67	19	13.31	155	34.42	7.71	2.0		11	1	182	.15	6	1.0	1.9	8	LSW
		6	912	19.23	19	5.23	155	29.07	29.15	2.6	1.7	38	2	181	.09	8	.8	1.6	36	DLS
		6	920	53.84	19	22.66	155	27.42	9.70	2.4	2.8	46	6	41	.14	0	.4	.6	39	KAO
		6	11 6	29.33	19	26.04	155	24.62	10.92	1.6	1.2	32	3	49	.12	2	.5	.9	28	KAO
		6	12 8	17.08	19	29.92	155	26.82	5.22	2.1	2.4	38	4	72	.12	4	.3	1.1	30	KAO
		6	1252	2.17	19	23.37	155	26.33	11.40	2.0	2.1	34	4	31	.10	3	.4	.7	30	KAO
		6	1255	45.24	19	8.67	155	34.41	9.93	2.5	3.0	26	2	127	.21	12	.7	1.4	22	LSW
		6	1658	16.54	19	15.39	155	22.84	6.48	1.7	1.9	27	2	158	.12	3	.5	1.3	23	SWR
		6	17 4	35.85	19	16.08	155	22.85	6.23	1.9	2.4	40	1	129	.15	4	.5	1.0	34	SWR
		6	1724	9.80	19	25.47	155	22.19	11.05	1.8	1.7	39	7	41	.12	5	.4	.5	32	KAO
		6	1725	13.25	19	26.40	155	28.86	9.00	1.9	1.5	27	2	43	.09	7	.4	1.2	25	KAO
		6	1942	27.09	19	23.87	155	27.47	11.69	2.4	2.5	44	2	33	.11	3	.4	.6	42	KAO
		6	2054	45.77	19	24.00	155	26.51	10.36	2.1	2.3	43	3	35	.12	3	.4	.6	37	KAO
		7	019	48.05	19	25.36	155	21.02	9.21	2.0	2.0	47	6	39	.11	4	.4	.5	42	KAO
		7	1 3	17.00	19	18.80	155	11.29	6.91	1.7	1.5	31	3	116	.10	5	.5	.8	25	SF3
		7	132	36.42	19	22.14	155	26.53	10.15	1.8	1.5	14	2	84	.10	2	.6	1.1	12	KAO
		7	3 0	28.28	19	22.63	155	26.61	11.06	1.8	1.7	22	1	49	.09	7	.5	1.4	21	KAO
		7	345	11.37	19	22.29	155	29.73	9.30	2.9	3.2	45	2	33	.10	4	.3	.7	42	KAO
		7	1026	24.04	19	25.14	155	21.54	10.90	1.9	1.8	38	3	35	.10	4	.4	.6	33	KAO
		7	1032	10.81	19	19.95	155	11.60	7.84	2.0	2.4	43	3	85	.12	5	.5	.6	30	SF3
		7	1242	21.94	19	21.19	155	2.50	4.86	1.8	2.0	32	4	140	.15	2	.6	1.3	19	SSF
		7	1431	13.75	19	21.32	155	1.34	6.78	2.1		43	4	171	.17	4	.7	.5	36	SF5
		7	1431	55.98	19	21.79	155	1.43	7.02	2.2	2.6	40	3	159	.13	4	.6	.6	28	SF5
		7	1454	6.84	19	16.29	155	26.74	8.02	2.2	2.5	44	4	62	.16	6	.4	.8	33	LSW
		7	1744	13.18	19	23.14	155	27.23	9.69	1.9	1.3	38	3	43	.13	1	.4	.6	23	KAO
		7	1922	4.62	19	22.33	155	29.63	8.67	1.7	1.3	38	5	40	.10	4	.3	.8	30	KAO
		7	2122	56.22	19	20.20	155	12.82	8.22	1.4	1.1	28	2	70	.11	5	.5	.7	18	SF2
		7	2143	8.17	19	17.17	155	29.02	8.54	2.3	2.6	43	4	51	.15	4	.4	.7	36	LSW
		7	2153	51.10	19	22.65	155	26.90	9.03	1.6	1.1	36	3	41	.13	1	.4	.8	26	KAO
		7	22 7	10.91	19	20.73	155	6.25	6.32	1.6	1.3	21	0	102	.12	5	.6	1.3	15	SF4
		7	22 9	57.04	19	23.25	155	27.42	9.60	2.5	2.6	44	3	55	.15	1	.4	.7	37	KAO
		8	0 0	55.66	19	25.25	155	21.35	9.03	1.7	1.1	37	8	34	.13	4	.4	.6	28	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	8	235	17.28	19	22.96	155	27.69	10.30	2.6	2.7	45	5	35	.12	1	.4	.6	38	KAO
		8	241	57.97	19	23.79	155	25.12	7.80	2.1	1.5	46	7	36	.14	3	.3	.7	31	KAO
		8	253	12.32	19	25.51	155	21.76	10.45	1.7	1.5	44	4	33	.13	4	.4	.5	34	KAO
		8	257	3.37	19	17.81	155	20.63	7.38	1.4	1.1	28	3	124	.11	4	.4	.6	22	SWR
		8	522	2.09	19	23.64	155	26.86	10.59	1.6	1.2	34	2	37	.11	3	.4	.7	28	KAO
		8	650	7.29	19	29.07	155	26.37	7.49	2.6	2.6	44	3	78	.13	6	.4	.9	36	KAO
		8	749	43.46	19	23.91	155	26.74	10.04	1.8	1.5	38	2	32	.11	3	.4	.7	29	KAO
		8	932	34.44	19	25.01	155	30.25	11.65	2.3	1.6	41	3	36	.09	7	.4	.6	36	KAO
		8	10	6 41.78	19	28.33	155	26.90	3.61	1.9	1.1	33	4	76	.13	6	.4	1.6	28	KAO
		8	1121	30.93	19	21.37	155	24.13	13.12	2.2	2.4	43	5	34	.10	3	.4	.5	37	DEP
		8	1419	45.82	19	25.07	155	21.69	11.46	2.8	3.2	54	10	35	.11	4	.3	.3	47	KAO
		8	15	6 47.77	19	25.50	155	29.44	8.30	1.9	1.3	33	3	64	.11	6	.4	1.1	27	KAO
		8	1649	21.23	19	25.43	155	29.65	10.30	2.3	2.0	40	2	58	.10	7	.4	.7	36	KAO
		8	1712	11.32	19	25.55	155	20.74	10.56	2.2	2.3	47	7	46	.10	4	.3	.5	41	KAO
		8	21	5 59.76	19	5.48	156	12.38	32.79	3.0	2.9	50	4	279	.10	40	1.2	1.2	47	KON
		8	2243	11.95	19	23.50	155	20.44	10.57	1.6	1.1	31	5	54	.09	1	.4	.6	23	KAO
		9	041	11.65	19	24.99	155	30.32	12.25	2.0	1.2	33	2	43	.09	7	.5	.7	26	KAO
		9	2	7 55.05	19	25.18	155	27.96	8.98	2.0	1.1	35	4	64	.12	5	.4	1.0	29	KAO
		9	219	42.47	19	24.92	155	21.85	10.80	2.2	2.2	50	9	35	.11	4	.3	.5	43	KAO
		9	334	12.90	19	19.45	155	15.36	8.19	1.9	1.7	38	3	87	.10	4	.4	.7	28	SF1
		9	724	20.74	19	21.04	155	29.36	6.32	1.6	1.3	18	2	80	.08	4	.5	1.2	16	KAO
		9	725	59.58	19	26.31	155	22.47	10.39	1.6	1.2	27	3	63	.11	4	.5	.9	22	KAO
		9	1023	33.30	19	22.29	155	29.45	9.53	1.7	1.3	22	1	80	.10	3	.5	.9	20	KAO
		9	1040	50.00	19	23.40	155	26.74	6.47	2.4	2.6	42	3	32	.14	2	.4	.8	36	KAO
		9	12	5 50.13	19	23.54	155	26.99	5.71	1.7	1.6	26	2	47	.12	2	.4	.9	22	KAO
		9	1420	45.47	19	23.00	155	26.01	10.82	1.6	1.5	29	2	45	.11	3	.5	1.0	26	KAO
		9	1726	31.91	19	23.66	155	25.68	10.88	2.2	2.4	45	6	31	.11	3	.4	.5	38	KAO
		9	1936	58.18	19	27.67	155	29.02	10.88	2.2	1.7	28	2	82	.11	8	.5	1.1	25	KAO
		9	2056	4.72	19	24.91	155	21.50	12.41	1.8	1.6	31	4	57	.10	4	.5	.8	25	KAO
		9	2114	40.20	19	19.59	155	15.49	8.98	3.0	3.3	54	8	86	.13	3	.4	.4	45	SF1
		9	2333	41.83	19	20.97	155	29.61	6.26	2.1	2.4	34	3	45	.11	5	.3	.9	27	KAO
		10	020	17.57	19	21.58	155	21.83	11.07	1.7	1.3	25	4	87	.09	4	.5	.9	20	SWR
		10	436	14.65	19	21.28	155	6.76	7.16	1.8	1.5	19	0	87	.11	4	.7	1.1	17	SF4
		10	1015	48.46	19	20.03	155	11.21	9.27	2.2	2.5	39	3	85	.12	4	.4	.6	36	SF3
		10	1215	14.96	19	21.02	155	29.34	5.93	2.0	1.8	29	1	43	.10	4	.4	1.1	25	KAO
		10	1230	31.24	19	20.97	155	23.61	10.47	2.2	2.5	40	4	35	.11	2	.4	.5	29	SWR
		10	1324	54.09	19	22.10	155	24.24	12.73	2.4	2.4	53	8	27	.11	4	.3	.3	39	KAO
		10	1556	1.63	19	22.41	155	.99	6.59	2.1	2.5	40	1	156	.18	6	.6	.8	27	SF5
		10	16	6 47.09	19	25.92	155	29.23	9.46	2.0	2.1	44	5	40	.12	7	.4	.8	35	KAO
		10	1633	28.30	19	22.65	155	29.91	8.32	2.1	2.3	40	3	45	.11	4	.4	.8	30	KAO
		10	2014	18.37	19	25.80	155	29.06	7.95	1.8	1.3	40	5	40	.12	7	.4	1.0	26	KAO
		10	2312	52.08	19	19.76	155	7.21	6.22	1.2	1.1	22	1	110	.09	5	.6	1.5	20	SF4
		11	147	10.44	19	30.34	155	27.34	3.71	3.1	3.3	47	4	48	.13	3	.3	1.0	39	MLO
		11	7	4 23.05	19	22.63	155	28.11	8.24	1.8	1.1	35	4	40	.12	1	.4	.8	28	KAO
		11	937	32.77	19	19.30	155	13.14	5.56	1.3	1.1	30	3	77	.12	4	.4	1.3	20	SF2
		11	939	57.79	19	26.22	155	28.62	9.22	2.0	1.7	37	5	58	.11	6	.4	.9	28	KAO
		11	1031	16.47	19	19.88	155	27.27	8.87	2.6	3.0	48	5	47	.15	5	.4	.6	41	KAO
		11	1120	29.49	19	25.42	155	24.48	10.22	2.2	2.4	47	6	38	.12	1	.4	.5	35	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	11	1128	26.64	19	11.82	155	32.75	9.21	2.7	3.0	45	2	92	.16	8	.5	.8	32	LSW
		11	1239	40.25	19	28.27	155	26.79	5.85	2.1	1.5	39	5	52	.13	6	.4	1.0	28	KAO
		11	1517	43.99	19	28.29	155	27.36	3.00	2.2	2.3	40	7	54	.11	7	.3	1.0	29	KAO
		11	1611	46.03	19	15.84	155	29.68	10.76	1.8	1.4	31	0	59	.12	2	.4	.6	24	LSW
		11	17	2 34.51	19	21.72	155	28.17	8.78	2.3	2.2	40	2	40	.13	2	.4	.8	35	KAO
		11	1741	43.17	19	17.76	155	20.90	6.58	1.3	1.3	29	5	124	.12	4	.4	1.1	25	SWR
		11	19	1 .36	19	21.99	155	29.71	12.26	2.5	2.9	48	4	34	.09	4	.3	.4	41	KAO
		11	1917	3.84	19	32.60	155	58.01	8.81	2.8	2.4	39	4	215	.21	8	1.4	.5	35	KON
		11	1952	49.08	19	24.99	155	30.17	11.62	2.2	2.3	39	1	36	.10	6	.4	.6	37	KAO
		11	20	6 19.29	19	26.65	155	23.19	12.03	2.1	2.5	43	6	40	.12	4	.4	.5	39	KAO
		11	2152	53.01	19	20.23	155	12.97	6.98	1.4	1.3	34	3	68	.15	4	.5	.8	29	SF2
		12	0	9 18.57	19	22.64	155	28.60	10.29	1.8	2.0	42	4	36	.12	2	.4	.7	36	KAO
		12	1	1 41.92	19	22.99	155	25.91	10.68	1.8	2.0	40	5	39	.13	3	.4	.7	32	KAO
		12	150	40.94	19	26.44	155	23.26	13.07	1.8	1.6	34	5	59	.12	4	.5	.8	29	DML
		12	411	53.64	19	20.20	155	12.76	8.50	1.5	1.5	27	3	70	.10	5	.5	.7	23	SF2
		12	5	5 58.76	19	5.24	156	13.39	36.32	2.4	2.0	38	7	280	.11	42	1.2	1.6	35	KON
		12	529	8.96	19	27.51	155	24.07	10.33	1.7	1.2	30	3	72	.10	4	.5	.8	24	KAO
		12	748	23.71	19	21.02	155	21.58	10.61	2.0	1.8	35	5	63	.11	3	.4	.7	30	SWR
		12	939	17.97	19	19.39	155	15.05	6.24	1.9	1.6	35	0	84	.10	4	.4	.7	33	SF1
		12	1126	.95	19	22.73	155	24.43	13.54	1.8	1.2	36	3	39	.10	5	.5	.8	30	DML
		12	1251	57.96	19	24.02	155	26.92	10.66	2.0	2.4	43	4	33	.12	3	.4	.6	37	KAO
		12	1422	20.04	19	17.58	155	21.16	8.01	1.4	1.3	29	3	125	.10	5	.4	1.1	21	SWR
		12	16	4 37.49	19	25.25	155	29.49	10.02	2.2	2.0	43	4	37	.09	6	.4	.7	36	KAO
		12	1739	35.67	19	20.33	155	13.51	9.35	1.3	1.1	26	5	65	.06	4	.5	.7	20	SF2
		12	1841	34.23	19	18.95	155	13.48	8.09	1.4	1.3	23	2	72	.09	4	.6	1.0	18	SF2
		12	2020	10.70	19	22.56	155	20.88	10.56	1.8	1.5	35	5	45	.09	3	.4	.6	28	KAO
		13	018	5.28	19	23.23	155	26.24	9.36	1.9	2.0	39	3	31	.12	3	.4	.6	32	KAO
		13	523	32.13	19	23.71	155	17.00	13.72	1.9	1.4	40	3	62	.10	1	.5	.4	29	DEP
		13	553	30.55	19	22.30	155	1.21	3.18	1.5	1.1	29	1	154	.15	5	.6	1.5	19	SSF
		13	658	25.31	19	18.40	155	15.43	7.88	1.9	2.3	40	3	118	.11	4	.4	.6	28	SF1
		13	7	1 34.57	19	28.32	155	27.02	9.19	2.7	2.4	45	5	54	.12	7	.3	.6	37	KAO
		13	856	13.62	19	23.35	155	20.70	9.61	2.0	2.0	40	7	43	.12	2	.4	.6	28	KAO
		13	1052	23.77	19	27.43	155	26.08	9.98	2.4	2.0	44	5	48	.14	4	.4	.7	35	KAO
		13	1641	.05	19	18.83	155	15.53	6.88	1.3	1.3	28	5	109	.11	4	.5	.9	24	SF1
		13	1713	28.60	19	23.91	155	26.86	10.77	2.3	1.8	44	2	36	.11	3	.3	.5	36	KAO
		13	1817	37.43	19	21.42	155	23.47	10.51	1.7	1.5	36	5	45	.11	2	.4	.6	23	SWR
		13	2031	59.80	19	24.69	155	21.80	9.78	1.8	1.3	42	9	52	.12	4	.4	.5	27	KAO
		13	2059	36.10	19	25.86	155	21.68	8.28	1.7	1.1	42	6	32	.14	4	.4	.7	24	KAO
		14	0	5 4.56	19	22.57	155	26.56	9.44	1.8	1.7	41	4	42	.12	2	.4	.6	33	KAO
		14	0	6 3.39	19	24.63	155	22.03	10.57	1.8	1.5	39	5	48	.11	4	.4	.6	27	KAO
		14	225	18.28	19	20.50	155	29.89	6.08	2.0	1.8	34	3	48	.11	5	.4	1.1	27	KAO
		14	4	2 48.17	19	29.29	155	47.63	8.55	2.3	1.8	29	4	79	.14	4	.6	.7	20	KON
		14	419	23.91	19	27.19	155	29.42	8.84	2.0	1.5	36	3	57	.12	6	.4	1.0	25	KAO
		14	434	34.28	19	28.40	155	25.47	1.16	2.2	2.2	33	4	71	.12	5	.3	.6	22	KAO
		14	717	10.10	19	23.68	155	26.77	11.08	2.9	2.9	50	5	26	.12	3	.4	.5	41	KAO
		14	725	6.36	19	17.30	155	20.18	8.65	1.7	1.1	25	3	142	.10	3	.6	.5	19	SWR
		14	9	1 43.75	19	23.71	155	27.10	9.71	1.8	1.2	39	3	50	.12	2	.4	.6	30	KAO
		14	1045	25.13	19	25.57	155	20.30	5.21	2.0	1.8	35	5	47	.13	4	.4	1.1	27	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	14	1312	18.69	19	21.18	155	7.86	6.47	2.0	1.9	37	3	77	.13	4	.5	.9	25	SF4
		14	14 6	53.17	19	22.51	155	30.09	8.29	1.6	1.1	31	1	46	.12	4	.4	1.1	26	KAO
		14	1454	33.56	19	28.45	155	24.59	9.87	2.4	1.5	39	3	40	.11	3	.4	.7	24	KAO
		14	1859	38.91	19	27.56	155	24.68	7.97	2.2	1.2	43	4	51	.14	4	.4	.7	31	KAO
		14	2036	18.63	19	18.69	155	13.14	3.88	1.5	.9	31	2	66	.12	3	.4	1.2	21	SSF
		14	2037	.21	19	18.14	155	13.14	6.17	1.8	1.6	36	3	97	.11	2	.5	.8	25	SF2
		14	2056	23.97	19	21.99	155	30.13	9.98	3.6	3.8	53	5	32	.10	5	.3	.5	46	KAO F
		14	2222	32.83	19	23.88	155	26.70	9.69	2.4		47	6	32	.14	3	.4	.5	37	KAO
		15	059	22.92	19	25.37	155	21.10	9.55	2.4	2.1	49	6	37	.12	4	.4	.5	37	KAO
		15	1 9	40.50	19	27.30	155	23.48	8.95	2.0	1.6	42	5	41	.11	5	.3	.6	31	KAO
		15	528	28.21	19	25.92	154	56.48	3.04	1.9	1.3	33	1	153	.14	4	.6	.7	24	SLE
		15	6 9	34.12	19	23.30	155	23.57	13.43	2.8	2.7	51	6	36	.11	5	.3	.3	40	DML
		15	650	30.40	19	24.22	155	26.29	9.45	1.6	1.0	31	1	42	.12	3	.4	.9	23	KAO
		15	714	28.90	19	23.10	155	27.34	9.84	1.7	1.1	34	2	50	.12	1	.4	.7	26	KAO
		15	727	18.69	19	25.43	155	21.19	9.24	1.8	1.3	41	7	35	.12	4	.4	.6	33	KAO
		15	815	20.35	19	26.97	155	23.93	9.58	1.6	.9	29	4	66	.10	4	.4	.7	21	KAO
		15	838	20.12	19	26.50	155	29.82	8.21	2.1	1.4	22	0	62	.08	8	.4	1.4	22	KAO
		15	842	25.13	19	22.74	155	26.02	10.44	2.2	2.1	25	1	49	.09	3	.4	1.1	24	KAO
		15	1122	49.27	19	28.31	155	27.60	9.28	2.3	1.5	39	5	57	.11	7	.4	.8	31	KAO
		15	1337	51.33	19	22.15	155	25.92	10.28	1.5	1.3	24	2	43	.13	3	.5	1.0	17	KAO
		15	1447	47.07	19	26.48	155	19.83	6.62	2.2	1.6	37	4	48	.12	3	.4	.7	28	KAO
		15	1450	17.61	19	26.66	155	19.89	6.76	1.6	1.1	25	3	63	.11	2	.5	.9	21	KAO
		15	15 0	39.95	19	25.71	155	21.38	9.16	1.6	1.1	34	7	76	.11	4	.4	.6	26	KAO
		15	1729	5.23	19	19.70	155	11.17	6.50	2.1	1.9	39	5	93	.13	5	.5	.8	25	SF3
		15	1816	59.28	19	18.21	155	26.02	9.24	1.6	1.2	27	3	79	.10	6	.4	.8	19	LSW
		15	20 4	4.80	19	27.63	155	27.17	5.50	2.2	1.2	46	8	58	.14	6	.4	1.2	32	KAO
		15	2035	50.21	19	23.78	155	27.46	9.60	1.9	1.4	36	3	32	.10	2	.4	.7	29	KAO
		15	2151	10.30	19	21.03	155	21.66	10.07	1.9	1.3	37	6	63	.11	3	.4	.6	26	SWR
		15	22 8	45.30	19	24.31	155	25.46	8.08	1.5	1.0	31	2	47	.12	2	.4	.9	25	KAO
		15	2211	10.10	19	26.16	155	29.22	8.84	1.5	.8	32	3	41	.11	7	.4	.9	20	KAO
		15	2241	56.32	19	23.40	155	27.19	10.37	1.6	1.2	36	3	31	.12	2	.4	.7	27	KAO
		16	1 1	37.55	19	26.48	155	29.76	8.12	1.4	.9	24	2	43	.09	8	.4	1.2	17	KAO
		16	347	8.26	19	27.90	155	26.08	9.09	2.3	1.2	29	2	69	.11	5	.4	.8	27	KAO
		16	422	7.25	19	23.06	155	27.22	11.21	2.6	2.7	42	2	38	.12	1	.4	.7	40	KAO
		16	841	23.60	19	23.26	155	27.34	9.19		1.3	32	0	37	.11	2	.4	.8	32	KAO
		16	1041	19.67	19	24.51	155	19.62	6.63		1.9	29	0	70	.09	2	.4	.9	29	KAO
		16	1545	25.70	19	21.88	155	21.82	9.60		1.9	25	0	54	.08	4	.4	.8	24	SWR
		16	1558	38.91	19	19.54	155	14.76	6.02	1.4	1.1	21	0	87	.07	5	.4	1.0	21	SF1
		16	1644	.53	19	25.31	155	21.65	10.33	1.7	1.2	32	0	52	.07	5	.4	.8	31	KAO
		16	1716	22.37	19	25.72	155	15.86	19.62	2.1	2.5	43	1	38	.11	3	.5	.8	41	DEP
		16	2031	2.52	19	22.78	155	20.76	8.78	2.0	1.5	33	0	47	.11	3	.4	.6	33	KAO
		16	2047	3.43	19	19.52	155	15.65	6.34	2.1	1.3	29	0	90	.10	3	.4	.6	29	SF1
		16	2235	56.27	19	23.84	155	20.59	9.01	1.4	1.6	26	0	68	.12	2	.5	.8	26	KAO
		16	2318	27.70	19	28.38	155	25.54	9.33	2.4	1.4	36	0	63	.12	5	.4	.7	36	KAO
		16	2334	31.57	19	15.66	155	22.30	7.01		1.5	15	0	175	.08	4	.7	1.7	15	SWR
		16	2343	58.80	19	24.29	155	26.68	10.04	2.1	2.1	32	0	44	.10	4	.4	.7	24	KAO
		17	222	16.69	19	27.13	155	25.49	9.40	2.1	2.3	36	0	51	.12	4	.4	.8	34	KAO
		17	255	16.45	19	22.77	155	.34	6.32	2.0	1.3	20	0	170	.13	5	.7	1.7	20	SF5

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	17	412	52.90	19	18.09	155	12.93	4.34	1.4	1.4	25	0	108	.09	2	.4	1.1	25	SSF
		17	432	1.92	19	18.49	155	12.81	3.37	1.4	1.4	22	0	100	.11	3	.4	.9	22	SSF
		17	511	54.39	19	20.34	155	13.70	6.78	1.9	1.5	29	0	63	.11	4	.4	.9	29	SF2
		17	528	15.47	19	25.24	155	21.04	10.15	2.5	2.5	40	0	33	.09	4	.4	.6	39	KAO
		17	648	20.79	19	27.84	155	24.40	9.12	1.4	1.2	20	0	76	.10	4	.6	1.3	19	KAO
		17	815	14.62	19	17.68	155	12.79	6.84	1.6	1.4	29	2	132	.08	2	.5	.9	23	SF2
		17	1056	49.73	19	18.47	155	13.44	4.84	1.6	1.5	30	3	79	.11	3	.4	1.3	25	SSF
		17	1927	28.34	19	24.10	155	26.28	10.16	2.1	1.7	38	2	35	.13	3	.4	.7	36	KAO L
		17	2015	13.07	19	25.42	155	21.13	9.25	1.9	1.2	28	1	79	.10	4	.4	.8	27	KAO
		17	2129	26.00	19	27.93	155	27.02	5.64	2.0	1.2	30	4	70	.12	6	.4	1.4	24	KAO
		17	2154	31.88	19	25.34	155	20.90	8.29	1.6	1.4	23	1	83	.09	4	.4	.7	22	KAO
		17	2338	24.26	19	24.97	155	21.32	8.64	2.2	1.9	35	1	35	.11	4	.4	.7	34	KAO
		18	028	6.44	19	29.00	155	26.98	9.14	2.1	1.2	27	1	73	.09	6	.4	.9	26	KAO
		18	425	42.31	19	25.26	155	20.17	7.39	2.0	1.5	24	1	97	.09	3	.5	.8	23	KAO
		18	427	55.15	19	27.95	155	26.55	8.63	2.4	1.5	32	2	74	.12	6	.4	1.0	30	KAO
		18	454	25.62	19	27.86	155	26.63	8.14	2.4	1.4	20	0	78	.09	5	.4	1.1	20	KAO
		18	1020	24.49	19	23.24	155	26.00	11.46	2.6	2.6	43	5	31	.11	3	.4	.6	35	KAO
		18	1023	34.27	19	21.02	155	21.76	10.28	1.9	2.2	40	4	63	.11	3	.4	.6	33	SWR
		18	1025	51.43	19	20.92	155	21.44	10.30	1.5	1.3	28	3	64	.07	3	.4	.7	25	SWR
		18	1116	40.01	19	21.52	155	23.23	11.29	1.8	2.0	34	6	54	.08	2	.4	.5	26	SWR
		18	1139	10.70	19	25.17	155	19.21	6.20	1.7	2.1	25	4	110	.12	3	.5	1.0	21	KAO
		18	1216	36.05	19	24.96	155	19.23	5.23	1.9	2.4	29	3	45	.10	3	.4	.7	26	KAO
		18	1226	21.76	19	25.16	155	19.05	5.47	1.6	1.6	26	4	112	.10	3	.4	.8	22	KAO
		18	1229	26.98	19	24.86	155	19.09	4.99	1.6	1.3	23	3	107	.09	2	.4	.7	19	KAO
		18	1329	36.26	19	31.21	155	36.65	9.41	2.1	1.6	27	1	106	.12	4	.6	.5	21	MLO
		18	14 3	38.22	19	24.72	155	19.71	6.59	2.9	3.4	47	8	37	.10	2	.3	.5	38	KAO
		18	14 5	47.01	19	25.20	155	19.69	3.73	1.7	1.1	21	4	105	.10	3	.4	.7	16	KAO
		18	1411	9.15	19	25.14	155	19.44	3.58	1.8	1.3	26	5	106	.12	3	.4	.6	20	KAO
		18	1421	1.09	19	24.80	155	19.57	3.89	1.8	1.3	21	3	107	.11	2	.4	.7	15	KAO
		18	1427	36.04	19	25.12	155	19.70	4.64	1.8	1.5	25	4	102	.12	3	.4	.9	18	KAO
		18	1536	3.67	19	23.94	155	20.96	9.47	1.7	1.3	31	6	61	.13	2	.4	.7	20	KAO
		18	1616	20.02	19	17.81	155	20.76	6.61	1.5	1.3	27	2	123	.12	4	.5	1.2	18	SWR
		18	1619	11.83	19	25.55	155	29.42	9.13	2.5	2.6	48	4	38	.11	6	.3	.7	40	KAO
		18	1628	14.93	19	25.10	155	19.61	4.15	1.4	1.3	22	5	102	.10	3	.4	.7	16	KAO
		18	1724	21.00	19	27.63	155	24.48	9.29	2.0	1.4	38	5	38	.11	5	.4	.7	25	KAO
		18	1827	36.78	19	25.09	155	19.03	4.26	1.3	1.1	24	4	108	.11	3	.4	.6	20	KAO
		18	2015	22.24	19	20.73	155	22.42	10.85	1.8	1.5	32	5	67	.11	2	.4	.8	22	SWR
		18	2111	56.18	19	29.12	155	26.59	8.29	3.2	3.1	50	4	62	.13	6	.4	.7	42	KAO
		18	2313	51.01	19	23.41	155	23.60	13.51	2.4	2.2	48	7	35	.09	4	.3	.3	35	DML
		18	2322	36.99	19	23.79	155	26.10	11.02	1.8	1.2	32	2	32	.12	3	.4	.9	28	KAO
		18	2341	31.74	19	21.50	155	30.08	9.62	3.3	3.6	51	6	33	.11	5	.3	.5	43	KAO
		19	148	9.61	19	25.31	155	20.98	9.96	1.8	1.5	42	5	40	.12	4	.4	.5	33	KAO
		19	241	29.12	19	26.14	155	50.11	31.12	2.6	2.4	49	4	112	.11	10	.8	1.4	44	KON
		19	3 2	50.20	19	23.59	155	26.77	10.70	1.7	1.2	36	2	32	.11	3	.4	.8	33	KAO
		19	915	1.06	19	21.90	155	26.22	10.16	1.8	1.5	31	1	51	.10	3	.4	.7	27	KAO
		19	936	44.37	19	25.22	155	21.22	9.42	2.4	2.2	45	6	34	.12	4	.4	.5	38	KAO
		19	1013	41.55	19	20.40	155	13.56	6.46	1.7	2.0	35	4	59	.12	4	.4	.8	25	SF2
		19	1157	53.07	19	19.14	155	10.01	7.29	1.5		18	1	106	.03	5	.6	1.4	13	SF3

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	19	1326	43.54	19	19.68	155	11.05	7.83	1.8	2.2	36	3	93	.10	5	.4	.7	30	SF3
		19	1442	56.13	19	21.85	155	23.92	9.26	1.4	1.3	26	3	60	.09	3	.4	.7	22	SWR
		19	1450	59.45	19	28.26	155	26.88	9.29	2.8	2.5	42	5	60	.12	6	.4	.7	36	KAO
		19	1722	26.85	19	22.22	155	29.96	9.18	2.1	1.8	34	3	43	.08	4	.4	.8	27	KAO
		20	354	59.40	19	7.69	156	7.13	32.88	3.2	3.6	46	0	269	.11	30	4.9	1.9	45	KON
		20	420	46.51	19	25.00	155	20.45	10.03	2.5	2.5	47	6	42	.11	3	.3	.5	40	KAO
		20	544	38.06	19	24.86	155	21.25	11.43	1.8	1.4	35	5	43	.09	3	.4	.6	29	KAO
		20	6 6	30.97	19	25.47	155	19.97	7.55	1.5	1.1	26	5	92	.09	3	.4	.8	17	KAO
		20	652	.36	19	27.22	155	30.00	10.56	2.2	1.7	37	6	62	.12	9	.4	.7	26	KAO
		20	9 0	3.84	19	19.54	155	8.12	5.20	1.9	2.3	37	7	90	.11	4	.5	1.4	29	SF4
		20	1456	57.70	19	19.08	155	15.69	7.05	1.7	1.9	37	4	106	.12	4	.4	.8	25	SF1
		20	1731	45.82	19	20.40	155	4.40	7.37	1.9	2.1	39	6	119	.13	3	.4	.6	28	SF5
		20	1736	21.18	19	22.19	155	29.99	9.30	1.7	1.3	33	2	45	.09	4	.4	.9	25	KAO
		20	2023	43.51	19	25.59	155	20.66	10.00	2.6	2.6	50	5	39	.12	4	.4	.5	44	KAO
		20	2144	6.04	19	18.99	155	13.62	4.59	1.4	1.1	22	2	70	.10	4	.4	1.6	19	SSF
		20	2154	33.94	19	21.35	155	30.43	9.11	1.7	1.3	24	2	92	.10	5	.5	1.0	17	KAO
		21	012	4.63	19	21.26	155	23.50	9.50	1.8	1.5	37	5	44	.12	2	.4	.7	26	SWR
		21	039	25.41	19	22.87	155	26.54	10.11	2.3	2.4	45	5	40	.12	2	.4	.5	34	KAO
		21	050	5.35	19	21.33	155	28.41	8.29	1.9	1.5	35	4	46	.12	3	.4	.8	27	KAO
		21	234	49.37	19	22.70	155	4.74	8.19	3.0	3.3	48	5	79	.10	4	.3	.5	31	SF5
		21	428	7.16	19	21.51	155	2.73	7.62	2.1	2.0	44	4	127	.12	3	.5	.4	32	SF5
		21	618	51.58	19	23.90	155	20.84	10.08	1.7	1.1	31	5	62	.08	2	.4	.6	21	KAO
		21	623	42.04	19	25.25	155	19.24	5.25	2.1	1.6	26	5	113	.12	3	.4	1.0	18	KAO
		21	956	27.36	19	30.79	155	46.49	7.11	2.9	3.0	37	3	110	.14	1	.5	.7	31	KON
		21	1332	54.63	19	23.14	155	26.34	9.18	2.1	1.5	34	4	31	.13	3	.4	.7	24	KAO
		21	1431	37.34	19	20.05	155	6.88	7.24	2.4	2.5	45	5	110	.12	5	.5	.7	31	SF4
		21	15 3	34.19	19	20.93	155	29.89	2.57	2.8	2.9	39	2	69	.14	5	.4	1.1	27	KAO
		21	15 6	18.40	19	21.03	155	30.09	2.72	3.2	3.6	44	3	34	.13	5	.3	1.2	36	KAO
		21	1518	7.00	19	20.73	155	29.77	6.34	2.7	3.0	39	3	46	.15	5	.4	.9	33	KAO
		21	1523	17.87	19	20.90	155	30.17	3.22	2.5	2.7	27	2	53	.10	5	.3	1.4	16	KAO
		21	1532	52.25	19	20.94	155	29.98	2.54	3.3	3.6	46	4	47	.12	5	.3	1.0	38	KAO
		21	1632	20.04	19	19.22	155	9.30	4.70	1.1	1.1	21	3	96	.07	4	.4	1.7	14	SSF
		21	1636	4.86	19	25.07	155	19.69	6.29	2.1	2.0	29	5	64	.11	3	.4	.9	21	KAO
		21	1738	52.30	19	23.16	155	29.33	10.56	2.2	1.5	36	5	41	.08	3	.4	.7	27	KAO
		21	1930	18.79	19	22.35	155	29.88	8.77	2.0	2.0	38	3	42	.11	4	.4	.8	31	KAO
		21	20 1	32.57	19	24.53	155	25.95	10.93	2.0	1.7	37	3	34	.11	2	.4	.6	26	KAO
		21	22 3	24.36	19	25.17	155	20.26	7.91	1.9	2.2	31	5	84	.09	3	.4	.7	22	KAO
		21	23 5	5.52	19	25.57	155	30.10	9.40	2.2	1.7	35	3	40	.08	7	.4	.8	27	KAO
		21	2353	.35	19	22.25	155	29.97	9.50	2.0	1.5	35	4	45	.08	4	.4	.8	28	KAO
		22	713	58.27	19	24.32	154	58.36	7.00	1.9	1.5	23	1	168	.16	2	.8	.9	19	LER
		22	740	.10	19	24.99	155	20.02	5.79	1.6	1.3	25	5	92	.10	2	.4	1.2	18	KAO
		22	929	48.77	19	20.78	155	15.55	33.73	3.3	3.6	52	4	74	.12	3	.6	.9	48	DEP
		22	1034	14.50	19	22.65	155	2.88	4.52	2.0	1.9	33	5	116	.22	4	.7	2.3	24	SSF
		22	14 4	20.49	19	21.26	155	21.98	10.06	2.1	1.9	37	4	61	.10	3	.4	.7	28	SWR
		22	1429	13.44	19	25.30	154	59.41	5.09	2.1	2.0	28	1	134	.13	1	.7	1.1	20	LER
		22	17 0	21.90	19	21.64	155	21.85	9.66	1.6	1.1	25	4	56	.09	4	.4	.9	18	SWR
		22	1732	58.20	19	24.40	155	29.39	8.95	2.2	2.0	36	3	74	.10	5	.4	.8	24	KAO
		22	1833	39.85	19	28.10	155	27.08	9.18	2.0	1.4	29	3	71	.13	6	.5	1.2	20	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	22	2014	51.45	19	23.70	155	29.98	7.48	2.1	2.1	44	3	32	.12	5	.4	.9	33	KAO
		22	21 3	1.45	19	16.72	155	22.24	4.00	1.5	1.4	29	4	129	.11	5	.4	1.9	22	SWR
		22	2141	27.76	19	21.87	155	29.86	9.17	2.7	2.6	47	3	33	.11	4	.3	.6	37	KAO
		22	2348	39.89	19	24.81	155	21.75	10.60	2.4	2.4	50	6	36	.13	4	.3	.4	37	KAO
		23	033	31.19	19	19.08	155	15.15	6.81	1.7	1.3	39	2	90	.09	4	.4	.6	28	SF1
		23	038	54.28	19	25.57	155	21.19	10.68	2.7	2.5	47	5	32	.13	4	.3	.5	42	KAO
		23	1 3	17.24	19	11.57	155	28.96	32.42	2.3	1.7	36	3	84	.09	4	.7	1.3	32	DLS
		23	126	12.39	19	25.15	155	21.53	10.19	1.7	1.5	35	4	55	.12	4	.4	.7	30	KAO
		23	340	28.37	19	17.58	155	20.59	7.90	1.8	1.3	33	6	127	.11	4	.4	.7	20	SWR
		23	841	48.83	19	18.01	155	13.58	7.77	2.6	3.0	38	0	88	.09	2	.5	.6	38	SF2
		23	1117	31.02	19	22.20	155	29.83	9.10	2.6	2.9	46	3	34	.11	4	.3	.6	39	KAO
		23	14 0	8.82	19	29.08	155	37.83	5.36	2.7	2.9	37	2	72	.17	3	.5	1.2	24	MLO
		23	1838	6.88	19	20.71	155	21.46	10.43	1.5	1.3	30	3	66	.10	3	.5	.9	21	SWR
		23	1957	19.02	19	48.76	155	.26	39.78	2.3	1.7	32	1	261	.10	14	2.3	1.9	30	KEA
		23	2052	.03	19	11.30	155	28.59	6.79	2.9	3.1	51	5	124	.17	4	.6	.8	45	LSW F
		23	2053	33.09	19	12.98	155	27.69	8.29	3.0	3.3	49	4	107	.16	6	.5	.7	40	LSW F
		23	2328	41.17	19	22.25	155	28.90	9.55	2.2	2.1	45	3	36	.12	2	.3	.6	40	KAO
		23	2340	54.85	19	22.80	155	20.80	10.94	2.3	2.0	43	4	44	.11	3	.3	.5	30	KAO
		24	0 0	26.01	19	47.36	156	7.98	31.15	2.8	2.7	46	3	250	.12	40	1.3	1.9	38	HUA
		24	130	20.63	19	26.95	155	23.34	6.59	2.0	1.7	37	2	48	.14	4	.4	1.0	24	KAO
		24	523	8.40	19	25.75	155	19.92	7.50	1.6	1.1	23	3	119	.09	4	.5	1.0	19	KAO
		24	715	15.81	19	25.69	155	27.77	6.29	2.3	1.8	36	4	46	.12	5	.4	1.1	27	KAO
		24	838	17.40	19	23.43	155	20.61	11.19	1.8	1.4	31	4	55	.09	2	.4	.8	21	KAO
		24	1236	24.74	19	28.14	155	27.19	5.72	2.4	2.3	46	5	65	.14	6	.4	1.0	36	KAO
		24	1238	48.25	19	19.39	155	13.56	7.34	2.6	2.8	46	4	66	.13	4	.4	.7	40	SF2
		24	1320	43.34	19	25.21	155	21.23	10.58	1.8	1.4	35	6	50	.10	4	.3	.5	24	KAO
		24	1342	21.52	19	21.01	155	29.67	5.44	2.1	2.0	29	3	52	.11	5	.4	1.1	17	KAO
		24	1620	55.22	19	26.69	155	23.68	10.89	1.9	1.9	28	3	65	.10	4	.4	.8	17	KAO
		24	1654	.24	19	18.40	155	13.32	7.14	1.8	1.8	33	3	85	.11	3	.5	.9	21	SF2
		24	1727	7.84	19	21.78	155	27.99	5.63	2.8	3.0	45	3	40	.13	1	.3	.9	37	KAO
		24	21 4	48.45	19	21.28	155	7.43	6.89	2.5	2.6	45	5	81	.13	4	.4	.7	38	SF4
		24	2238	52.48	19	23.63	155	26.27	10.55	2.0	2.0	35	3	37	.09	3	.4	.6	27	KAO
		25	142	49.63	19	25.24	155	29.64	8.80	1.7	1.5	31	2	51	.12	6	.4	1.0	24	KAO
		25	224	40.43	19	24.79	155	21.69	10.94	1.8	2.0	30	4	43	.12	4	.4	.6	21	KAO
		25	447	8.38	19	23.44	155	20.25	10.40	1.9	2.0	35	5	52	.09	1	.4	.6	22	KAO
		25	639	40.53	19	46.24	155	53.56	30.04	3.1	3.0	46	4	191	.11	11	.7	2.0	38	HUA
		25	839	1.17	19	26.57	155	29.65	10.07	2.8	3.0	47	3	35	.12	6	.3	.5	40	KAO
		25	1257	32.42	19	18.90	155	15.88	6.89	1.4	1.3	32	2	111	.11	4	.4	.8	24	SF1
		25	1535	20.00	19	28.11	155	23.38	1.88	2.6	2.2	39	4	49	.13	3	.3	.6	24	KAO
		25	2136	11.38	19	19.11	155	13.61	7.37	1.5	1.5	35	3	69	.10	4	.4	.7	25	SF2
		26	214	52.11	19	20.98	155	2.77	4.80	1.9	2.1	34	5	130	.17	2	.5	1.3	18	SSF
		26	258	11.98	19	25.33	155	21.11	8.95	1.7	1.1	31	5	37	.09	4	.4	.7	22	KAO
		26	7 7	47.22	19	22.15	155	27.49	9.27	2.5	2.7	35	2	41	.12	1	.4	.9	33	KAO
		26	10 1	33.27	19	25.07	155	20.91	8.79	1.6	1.3	34	5	42	.10	3	.4	.7	25	KAO
		26	1018	14.39	19	25.33	155	21.17	9.38	2.1	2.0	43	5	62	.12	4	.4	.6	32	KAO
		26	1259	59.07	19	19.94	155	9.74	7.11	2.4	3.2	45	2	84	.13	4	.5	.7	37	SF3
		27	0 9	58.43	19	19.27	155	11.33	6.25	1.5	1.5	32	3	103	.07	6	.4	.9	26	SF3
		27	1 2	57.21	19	18.51	155	13.06	7.43	2.3	2.3	48	6	92	.13	3	.4	.6	39	SF2

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	27	326	44.66	19	23.48	155	27.28	10.97	1.9	1.4	30	1	62	.10	2	.5	.9	24	KAO
		27	613	49.99	19	25.59	155	20.98	9.87	2.3	2.3	47	5	40	.11	4	.4	.5	40	KAO
		27	621	17.69	19	25.91	155	29.95	10.37	2.3	2.0	34	3	40	.09	8	.4	.8	25	KAO
		27	934	4.19	19	26.21	155	28.71	8.85	2.2	2.0	39	1	42	.12	7	.4	1.1	32	KAO
		27	11	8 .90	19	25.88	155	29.77	8.55	1.9	1.3	32	2	70	.09	7	.4	1.1	25	KAO
		27	1450	26.55	19	18.69	155	11.63	8.77	3.4	3.7	51	6	116	.10	4	.4	.4	41	SF3
		27	1646	18.59	19	23.00	155	26.61	10.46	1.9	1.5	38	4	39	.11	2	.4	.6	30	KAO
		27	18	3 37.31	19	19.66	155	15.00	6.46	1.3	1.1	33	1	88	.10	4	.4	.8	23	SF1
		27	2057	25.04	19	22.37	155	29.79	9.31	2.2	2.0	44	3	34	.10	4	.3	.6	35	KAO
		27	21	9 41.21	19	19.58	155	10.92	8.14	1.8	1.9	43	4	96	.09	5	.4	.5	31	SF3
		27	2252	.75	19	26.21	155	20.24	6.84	1.7	1.5	28	0	47	.09	3	.4	.9	21	KAO
		27	23	7 13.24	19	17.66	155	16.19	7.87	1.8	2.1	44	3	131	.14	4	.5	.7	28	SF1
		27	2326	54.81	19	27.41	155	28.41	8.22	2.1	1.5	38	5	48	.11	7	.4	1.1	28	KAO
		28	156	23.23	19	19.13	155	15.25	6.79	1.6	1.8	38	2	100	.11	4	.4	.7	26	SF1
		28	336	.94	19	21.76	155	1.63	4.95	1.7	1.7	26	2	188	.28	8	1.5	3.9	11	SSF
		28	341	4.39	19	22.43	155	27.73	10.04	1.9	1.3	29	2	39	.11	0	.4	.7	22	KAO
		28	427	10.29	19	24.62	155	38.05	1.02	2.3	2.6	33	0	98	.13	6	.4	1.7	24	MLO
		28	1026	52.11	19	20.54	155	12.99	7.44	1.8	1.9	44	4	65	.11	4	.4	.7	35	SF2
		28	1052	42.62	19	23.36	155	26.37	10.60	1.8	1.8	35	4	38	.12	3	.4	.7	29	KAO
		28	1342	22.67	19	25.01	155	20.00	5.84	1.8	1.8	31	5	58	.11	3	.4	.9	22	KAO
		28	1627	37.03	19	24.08	155	27.08	10.14	1.6	1.1	32	2	60	.10	3	.4	.7	23	KAO
		28	1752	26.01	19	23.01	155	20.83	10.22	1.9	1.7	35	3	43	.10	2	.4	.6	26	KAO
		28	1823	35.26	19	20.92	155	21.38	9.95	1.7	1.3	31	6	63	.11	4	.4	.9	20	SWR
		28	1829	45.39	19	20.92	155	21.56	11.49	2.1	2.3	45	6	64	.09	3	.4	.4	29	SWR
		28	21	7 23.60	19	21.96	155	29.66	10.00	1.9	1.8	35	1	42	.08	4	.4	.7	22	KAO
		28	2337	49.59	19	25.94	155	21.22	8.75	2.0	1.5	33	5	31	.10	3	.4	.8	20	KAO
		29	0	4 58.92	19	25.46	155	21.43	9.58	1.6	1.1	33	5	42	.11	4	.4	.7	24	KAO
		29	115	4.90	19	22.33	155	29.89	9.35	2.0	1.5	38	2	42	.09	4	.3	.9	27	KAO
		29	133	19.34	19	30.00	155	4.03	44.25	2.3	1.9	36	2	63	.12	1	.8	1.8	32	DEP
		29	247	35.03	19	40.04	156	13.49	30.16	2.9	3.0	49	2	260	.13	38	1.6	2.1	41	HUA
		29	258	6.93	19	18.45	155	13.42	10.35	3.7	4.0	46	1	81	.09	3	.5	.4	43	SF2 F
		29	357	17.65	19	21.61	155	30.36	9.16	2.0	1.5	35	4	47	.09	5	.4	.8	24	KAO
		29	539	29.02	19	22.65	155	27.09	9.20	1.7	1.5	27	2	59	.10	1	.4	.8	22	KAO
		29	6	4 54.12	19	18.60	155	13.10	5.28	1.8	1.8	40	6	89	.16	3	.5	1.4	29	SF2
		29	616	57.47	19	18.85	155	13.59	7.38	2.0	2.0	45	4	71	.12	3	.5	.7	30	SF2
		29	620	57.19	19	19.84	155	12.41	6.19	1.7	1.3	29	2	80	.11	5	.5	1.1	23	SF2
		29	958	50.78	19	30.13	155	27.29	5.67	3.5	3.8	51	4	47	.14	4	.3	.9	46	MLO
		29	10	5 2.72	19	23.45	155	25.73	10.65	2.1	1.2	36	5	31	.11	4	.4	.7	29	KAO
		29	1150	11.82	19	25.40	155	37.64	.91	3.3	3.3	41	1	94	.12	4	.4	.9	32	MLO
		29	1319	55.50	19	29.55	155	27.39	4.30	2.1	1.2	24	3	78	.10	5	.4	2.0	17	KAO
		29	21	8 11.25	19	25.40	155	30.82	9.19	2.0	1.2	34	2	44	.11	8	.5	1.1	25	KAO
		29	2135	26.47	19	11.51	155	28.87	32.69	2.5	1.8	47	5	81	.08	4	.6	1.0	39	DLS
		30	126	17.51	19	26.14	155	22.42	8.99	1.6	1.1	38	4	40	.11	4	.3	.7	25	KAO
		30	224	41.44	19	18.39	155	13.45	6.62	1.7	1.5	41	2	80	.11	3	.5	.7	28	SF2
		30	257	17.36	19	29.70	155	38.06	3.71	2.3	1.1	38	2	74	.18	4	.5	1.0	28	MLO
		30	257	45.29	19	24.85	155	21.51	9.83	1.9	1.1	31	2	62	.11	4	.4	.7	24	KAO
		30	3	8 8.81	19	28.55	155	35.73	2.32	2.5	2.1	18	0	73	.11	1	.5	.3	9	MLO
		30	6	5 39.86	19	25.47	155	21.74	11.30	2.1	1.5	41	5	33	.10	4	.4	.6	30	KAO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	30	9	0 19.85	19	23.98	155	20.76	9.60	1.7	1.3	33	5	63	.11	2	.4	.7	17	KAO
		30	942	46.82	19	25.55	155	21.53	10.05	2.5	2.5	49	7	35	.11	4	.3	.4	39	KAO
		30	1132	4.17	19	21.80	155	6.98	6.69	1.7	1.3	31	2	76	.13	3	.5	1.0	25	SF4
		30	1355	25.72	19	26.60	155	23.50	10.42	2.3	2.1	44	4	64	.12	4	.4	.6	27	KAO
		30	1419	29.51	19	15.74	155	23.18	5.02	2.0	2.0	36	4	127	.12	3	.4	1.4	28	SWR
		30	1535	27.21	19	18.37	155	13.33	5.23	1.5	1.5	27	3	85	.10	3	.4	1.1	21	SF2
		30	2026	50.25	19	22.24	155	30.21	8.06	1.8	1.3	36	2	44	.12	5	.4	.8	22	KAO
		31	13	8 45.60	19	22.43	155	30.12	9.70	1.8	1.2	26	1	46	.07	4	.4	1.0	22	KAO
		31	1410	25.57	19	23.58	155	25.51	9.96	1.6	1.5	34	2	34	.12	3	.4	.8	29	KAO
		31	17	1 16.40	19	20.51	155	30.02	9.64	1.8	1.5	34	1	50	.09	6	.4	.8	18	KAO
		31	2127	50.06	19	16.56	155	22.83	5.87	1.9	1.9	36	1	121	.15	5	.5	1.2	24	SWR
		31	2243	14.83	19	26.36	155	37.53	1.42	2.5	2.2	23	1	93	.14	3	.4	.7	14	MLO

Table 6. HVO EARTHQUAKE SUMMARY LIST

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	JAN	1	2148	41.71	19	21.44	155	8.84	6.19	2.6	3.2	36	4	63	.12	5	.5	1.2	24	SF4	
		2	148	44.87	19	21.54	155	9.93	1.87	2.5	3.4	32	4	61	.13	1	.4	.2	22	SER	
		2	925	51.33	19	22.43	155	6.81	2.06	2.3	3.1	22	2	92	.09	1	.4	.3	21	SME	
		2	948	51.32	19	21.97	155	11.25	2.52	2.9	3.1	30	2	71	.12	3	.4	.8	22	SER	
		2	17 0	10.66	19	20.69	154	59.80	9.18	3.3	3.4	44	2	197	.12	6	.8	.5	37	LER	
		2	1939	52.51	19	18.79	155	7.29	9.52	3.3	3.0	49	9	130	.10	3	.5	.3	42	SF4	
		3	1155	4.02	19	21.03	155	3.86	7.97	3.8	4.0	44	2	85	.11	3	.4	.5	38	SF5	F
		3	1747	37.04	19	22.33	155	6.01	9.15	2.8	3.0	41	4	72	.09	1	.4	.5	35	SF4	
		5	454	13.03	19	18.77	155	13.54	9.91	3.4	3.7	43	2	80	.13	3	.5	.4	41	SF2	F
		8	1450	15.20	19	22.22	155	15.59	33.58	3.1	3.0	48	2	56	.10	1	.6	1.0	45	DEP	
		10	721	5.93	19	22.50	155	2.60	7.98	2.2	3.0	17	1	160	.10	5	1.0	1.3	12	SF5	
		13	852	35.02	19	17.03	155	15.53	11.12	3.0	3.0	29	0	151	.10	6	.7	.5	22	SF1	
		14	310	34.90	19	21.36	155	17.19	1.53	2.5	3.2	31	2	50	.13	2	.3	.4	19	SWR	
		15	029	35.81	19	37.28	156	26.60	13.70	3.2	3.0	44	3	238	.13	64	1.8	3.5	32	DIS	
		16	2 8	5.04	19	20.58	155	3.74	8.07	2.7	3.2	42	4	101	.11	2	.6	.4	35	SF5	
		16	733	53.65	19	21.23	155	7.36	9.24	3.9	3.9	48	4	82	.11	4	.4	.3	44	SF4	F
		17	1728	59.67	19	21.21	155	4.80	8.42	2.8	3.1	39	1	92	.07	4	.5	.4	32	SF5	
		19	242	25.66	19	21.17	154	59.56	.04	2.5	3.1	38	1	194	.24	6	.9	.8	21	SLE	*
		20	1629	.32	19	19.79	155	13.73	8.43	2.8	3.2	38	2	119	.11	5	.4	.6	36	SF2	
		21	046	4.01	19	21.51	155	7.36	7.02	2.5	3.1	40	2	78	.12	3	.4	.8	38	SF4	
		21	122	36.12	19	25.65	155	37.83	1.22	2.8	3.2	31	0	96	.11	4	.5	1.3	31	MLO	
		21	859	42.36	19	20.91	154	59.03	.01	2.3	3.1	31	2	200	.22	7	1.0	.8	19	SLE	*
		23	1013	39.86	19	22.76	155	3.58	12.04	3.3	3.5	46	6	99	.12	4	.5	.3	39	SF5	
		23	1046	46.62	19	22.78	155	3.60	12.02	3.5	3.9	48	5	99	.09	3	.4	.3	41	SF5	F
		23	18 0	24.92	19	21.49	155	1.85	9.53	4.3	4.3	47	2	155	.11	4	.7	.4	45	SF5	F
		24	23 8	28.23	19	13.77	155	27.28	9.72	3.3	3.5	45	2	140	.15	6	.6	.7	42	LSW	
		26	1338	34.35	19	8.54	155	30.54	11.47	3.1	3.1	36	0	155	.15	5	.7	.6	28	LSW	F
		26	1557	58.06	19	22.47	155	25.31	10.49	3.2	3.2	48	4	32	.14	4	.4	.5	42	KAO	
	FEB	1	1835	2.10	19	20.66	155	2.92	6.21	2.9	3.0	39	3	124	.09	1	.4	.6	30	SF5	
		2	1946	22.66	19	19.98	155	6.53	9.88	3.3	3.4	44	2	117	.11	5	.6	.4	41	SF4	
		6	1821	12.56	19	16.81	155	30.47	8.41	3.1	3.1	43	3	49	.18	3	.4	.8	32	LSW	F
		7	754	57.36	19	19.50	155	8.57	7.53	2.8	3.1	36	1	79	.11	4	.5	.7	27	SF4	
		7	16 2	45.49	19	21.47	155	14.44	28.01	4.1	4.2	44	0	59	.10	3	.6	.9	44	DEP	F
		10	254	32.48	19	48.04	155	42.75	20.56	2.9	3.0	38	0	245	.11	32	1.8	5.0	35	KEA	
		14	2311	54.02	19	20.17	155	6.56	8.86	3.4	3.4	43	4	112	.09	5	.4	.5	36	SF4	
		19	18 5	12.07	19	19.93	155	7.32	8.62	3.4	3.8	47	4	104	.09	5	.5	.4	35	SF4	F
		20	324	18.74	20	12.25	156	41.22	36.17	2.7	3.2	35	1	255	.12	77	2.0	2.3	19	DIS	
		21	1240	40.02	20	2.59	155	59.26	10.87	2.9	3.0	23	2	253	.14	24	1.8	.8	20	KOH	
		24	1849	46.08	19	25.28	155	38.09	1.86	3.7	3.6	34	2	100	.13	5	.4	1.0	25	MLO	
		27	513	4.92	19	19.50	155	11.28	9.56	2.6	3.0	43	1	96	.10	5	.4	.4	36	SF3	
	MAR	2	338	48.64	19	25.49	155	37.71	1.53	3.1	3.1	33	2	95	.11	4	.4	.9	28	MLO	
		4	2327	23.85	19	21.62	155	3.12	8.40	3.4	3.6	46	1	112	.12	3	.5	.4	42	SF5	F
		5	1610	2.45	19	45.51	156	8.05	40.37	3.5	3.4	45	3	249	.12	32	1.2	1.6	40	HUA	
		8	641	3.40	19	11.97	155	35.58	11.49	4.5	4.3	39	1	207	.14	6	.9	.5	38	LSW	F
		11	429	28.62	19	25.53	155	37.62	1.17	2.7	3.2	31	0	93	.12	4	.4	1.2	20	MLO	
		12	2243	4.93	19	58.92	155	19.98	13.53	3.0	3.1	45	2	204	.11	10	.9	.6	30	KEA	F
		15	652	29.50	19	35.24	156	24.69	34.92	3.1	3.1	37	0	237	.10	53	2.0	2.3	33	DIS	
		16	1610	7.13	18	27.17	154	16.71	39.46	4.3	5.0	42	0	318	.11	127	13.6	2.9	42	DIS	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK	
1983	MAR	17	1835	42.74	19	20.10	155	11.82	10.20	3.1	3.2	41	1	81	.08	5	.4	.3	34	SF3	
		18	1845	30.05	19	23.29	155	26.56	10.03	3.5	3.8	48	3	31	.13	2	.4	.5	43	KAO	F
		20	838	26.70	19	19.71	155	6.96	8.95	2.8	3.2	36	2	116	.10	5	.6	.4	33	SF4	
		20	1718	39.21	19	21.43	155	2.99	6.88	4.8	5.0	45	1	169	.11	6	.7	.6	43	SF5	F
		20	23 2	21.41	19	21.91	155	25.12	11.27	3.9	4.0	49	4	38	.12	5	.3	.4	44	KAO	F
		21	037	28.88	19	22.01	155	25.42	11.32	3.4	3.6	46	3	39	.13	4	.4	.4	41	KAO	
		21	2136	23.05	19	21.22	155	27.76	11.16	3.3	3.3	47	4	42	.13	2	.4	.5	36	KAO	
		24	259	33.25	19	25.60	155	28.25	10.94	3.0	3.5	47	2	34	.11	6	.3	.4	40	KAO	
		29	354	39.92	19	20.14	155	20.83	31.50	3.2	3.4	48	2	72	.10	4	.6	.9	45	DEP	
	APR	4	1144	47.60	19	25.82	155	37.59	2.96	2.9	3.2	31	2	94	.12	4	.4	.9	27	MLO	
		7	11 0	33.48	19	16.88	155	28.62	8.93	3.3	3.7	50	5	54	.15	4	.4	.6	44	LSW	F
		12	049	26.90	19	29.63	155	40.00	7.08	3.6	3.8	40	4	140	.12	7	.5	.7	32	MLO	F
		15	1451	14.46	19	20.09	155	11.85	9.23	3.1	2.9	38	2	81	.09	5	.4	.6	32	SF3	F
		22	2043	41.88	19	19.99	155	8.23	9.21	3.0	3.3	43	2	84	.09	5	.4	.3	36	SF4	
		24	1 9	17.77	19	21.08	155	11.61	8.68	2.9	3.2	48	5	67	.10	4	.3	.4	36	SF3	
		25	22 2	51.59	19	21.31	155	3.14	7.89	2.9	3.2	42	3	111	.10	3	.5	.4	37	SF5	F
		27	934	4.03	20	23.70	156	17.98	25.61	3.3	3.4	38	4	207	.13	42	.8	3.0	32	KOH	
		27	2334	32.86	19	19.79	155	7.55	8.40	4.0	4.1	45	3	102	.09	5	.4	.3	38	SF4	F
		28	1315	30.37	19	35.71	156	1.69	40.10	3.0	3.0	46	3	228	.09	17	1.0	1.4	42	KON	
	MAY	2	1719	37.92	19	55.66	155	40.02	22.95	3.0	3.1	48	4	124	.10	25	.6	2.5	42	KOH	
		5	944	34.02	18	25.32	156	6.65	37.38	2.5	3.2	26	0	323	.24	106	39.9	4.7	5	DIS	L*
		7	847	10.39	19	18.08	155	29.28	9.02	3.0	3.3	45	3	45	.13	6	.4	.6	41	LSW	
		9	616	52.33	20	39.15	155	55.25	31.30	3.0	3.3	30	3	207	.09	37	1.0	1.2	21	DIS	F
		10	1457	12.03	19	41.81	155	2.17	.13	3.1		28	0	109	.20	1	1.4	1.6	22	HIL	*
		11	422	49.03	19	22.42	155	27.86	7.72	2.8	3.1	44	3	44	.12	0	.3	.7	38	KAO	
		13	030	7.96	19	10.24	155	34.95	9.40	4.4	4.1	48	4	107	.20	9	.6	.8	43	LSW	F
		14	418	18.17	19	21.67	155	2.18	8.14	3.3	3.7	44	4	142	.10	4	.6	.4	37	SF5	
		15	1343	30.94	19	20.77	155	11.98	8.31	2.8	3.0	46	3	70	.14	4	.4	.6	42	SF3	
		17	751	36.00	19	21.52	155	30.06	9.30	2.9	3.1	41	3	45	.13	5	.4	.6	34	KAO	
		17	2012	6.97	19	29.29	155	39.40	6.26	2.9	3.2	34	2	211	.12	6	.9	1.1	25	MLO	
		18	549	13.34	19	43.88	155	43.77	40.88	3.2	3.3	43	3	237	.08	25	1.1	1.5	37	HUA	
		19	1146	37.28	19	33.96	155	41.62	1.64	3.3	3.1	38	4	82	.14	10	.5	1.1	27	MLO	
		21	243	4.76	19	35.45	155	41.94	.01	3.1	3.1	36	3	89	.13	11	.4	.6	23	KEA	*
		24	749	17.85	19	19.49	155	8.67	9.52	3.1	3.3	44	2	77	.11	4	.5	.4	36	SF4	
		25	23 9	37.05	19	20.56	155	2.45	6.60	3.1	3.1	42	3	159	.12	1	.6	.5	34	SF5	
		27	245	36.98	19	49.20	155	21.29	16.79	3.0	2.3	43	3	115	.13	8	.8	2.2	37	KEA	
		27	1847	56.45	19	21.33	155	1.13	7.60	2.9	3.3	43	4	174	.10	4	.6	.4	30	SF5	
		28	012	33.72	19	46.01	156	2.84	40.10	3.0	3.3	49	4	189	.11	24	.8	1.3	41	HUA	
		30	2030	55.46	19	22.05	155	2.17	8.72	2.8	3.1	46	5	137	.09	4	.5	.4	36	SF5	
		31	359	3.40	19	20.56	155	31.37	23.74	3.4	3.6	51	5	34	.09	7	.5	.9	46	DML	F
	JUN	3	2247	38.34	19	19.84	155	15.70	8.56	3.3	3.5	44	2	87	.12	3	.4	.6	41	SF1	F
		4	2355	52.17	19	29.61	154	57.74	43.94	3.5	3.7	36	0	102	.11	6	1.6	2.8	33	LER	
		5	1854	31.04	19	9.17	155	32.44	33.11	4.1	4.0	49	3	130	.08	8	.6	1.2	46	DLS	F
		7	346	37.79	19	25.61	155	37.84	2.71	3.0	3.2	34	3	97	.12	4	.4	.8	26	MLO	
		7	12 1	40.84	19	30.38	155	52.82	10.79	2.8	3.3	33	2	125	.13	4	.7	.4	27	KON	F
		8	12 3	6.28	19	20.04	155	8.10	9.34	2.9	3.2	49	6	86	.09	5	.4	.4	37	SF4	
		12	456	21.99	18	56.59	155	30.17	14.85	2.7	3.1	39	2	237	.10	18	1.4	.7	32	DLS	
		17	152	55.27	19	18.99	155	3.62	7.22	2.8	3.3	39	3	194	.09	9	.7	.6	29	SF5	

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	JUN	21	1755	15.74	19	14.53	155	34.07	8.92	3.8	3.8	46	2	75	.14	5	.5	.6	43	LSW F
		22	1251	13.49	19	29.36	155	51.77	10.77	3.3	3.0	34	2	97	.13	6	.6	.4	27	KON
		24	1457	35.48	19	20.18	155	11.85	6.29	3.0	2.8	39	2	79	.12	5	.4	.7	35	SF3
		26	1658	48.67	19	21.78	155	4.93	9.18	3.7	3.9	48	3	79	.11	3	.5	.3	44	SF5 F
		29	4	3 52.81	19	32.04	155	36.64	10.62	3.1		42	2	84	.14	5	.5	.5	37	MLO
		30	010	56.80	19	1.14	155	30.67	38.31	3.4	3.8	51	5	202	.09	16	.8	1.2	46	DLS
		30	136	9.80	19	20.69	155	6.91	8.64	2.7	3.0	44	3	96	.10	4	.4	.4	32	SF4
		30	2011	18.61	19	23.09	155	26.71	10.24	3.4	3.3	51	5	32	.13	2	.3	.4	46	KAO F
	JUL	1	11	0 16.56	19	18.83	155	16.70	32.61	3.1	3.1	46	1	108	.10	3	.6	1.0	44	DEP
		2	959	.54	19	25.76	155	37.46	.21	3.1	3.2	39	2	92	.11	6	.4	.6	33	MLO
		7	2	5 17.29	18	23.08	155	36.38	35.76	3.7	3.4	46	5	312	.09	67	1.6	2.5	42	DIS
		7	918	43.99	19	32.23	155	56.62	9.23	3.1	2.5	35	5	209	.20	6	1.1	.6	21	KON
		9	1130	32.42	18	54.75	155	15.68	11.13	2.9	3.3	36	1	248	.12	35	1.5	.6	15	LOI
		15	10	8 51.61	19	20.75	155	11.90	8.34	3.0	2.9	48	4	70	.13	4	.4	.6	42	SF3
		16	040	29.09	19	21.42	155	1.39	7.04	3.1	3.2	43	1	167	.13	4	.6	.4	34	SF5
		18	2035	33.96	20	12.33	157	40.18	28.70	3.1	3.6	22	1	330	.18	198	4.5	4.6	13	DIS
		26	1021	29.73	19	25.57	155	24.64	9.26	3.6	3.9	48	2	36	.12	1	.4	.5	46	KAO F
		29	4	5 18.10	19	15.96	155	31.94	6.44	2.8	3.1	43	4	55	.22	4	.5	1.1	29	LSW
		30	2	1 6.76	19	21.95	155	6.54	8.10	3.0	3.0	47	4	77	.11	2	.4	.6	39	SF4
		30	749	56.08	19	25.37	155	24.75	9.84	3.3	3.4	46	3	72	.13	1	.4	.6	41	KAO
		30	950	43.75	19	21.73	155	15.21	8.92	3.0	2.9	46	3	61	.13	2	.4	.5	39	SF1
		31	343	55.23	19	21.11	155	8.31	7.55	2.8	3.2	41	3	71	.10	3	.4	.6	33	SF4 F
		31	539	16.34	19	19.70	155	7.44	8.73	3.8	3.9	44	3	105	.09	4	.5	.4	36	SF4
		31	1616	57.97	19	18.23	155	15.60	10.80	3.5	3.6	46	3	138	.11	5	.4	.4	42	SF1 F
	AUG	7	1041	26.27	19	27.29	154	50.86	8.37	2.9	3.0	40	4	232	.15	1	1.2	.4	32	LER
		8	1139	51.38	19	20.06	155	12.05	8.75	3.1	3.2	44	4	79	.09	5	.4	.5	32	SF3
		13	021	33.47	19	25.93	155	37.69	1.56	2.9	3.2	33	2	94	.14	3	.5	.8	25	MLO
		13	1714	18.67	19	19.81	155	6.95	9.34	3.6	3.7	51	5	114	.10	5	.5	.4	43	SF4 F
		15	2335	21.47	19	19.01	155	13.07	9.70	3.0	2.7	46	4	128	.14	7	.5	.5	35	SF2 F
		16	010	44.63	19	57.73	155	50.38	7.16	3.7	3.8	44	5	189	.11	19	.9	.9	37	KOH F
		18	543	59.52	19	58.49	155	8.24	31.30	4.0	4.2	46	4	262	.10	23	1.1	1.9	41	KEA F
		19	2252	50.86	19	25.95	155	37.04	2.70	3.1	3.5	46	4	63	.14	3	.4	.7	35	MLO
		22	353	38.08	19	21.21	155	6.84	8.06	2.9	3.1	45	2	87	.12	3	.4	.6	37	SF4
		23	348	35.10	19	20.25	155	12.79	9.89	3.7	4.1	44	1	70	.10	4	.4	.3	40	SF2 F
		24	2238	51.03	19	21.83	155	24.99	10.03	2.8	3.2	44	4	39	.13	4	.4	.5	33	SWR
		26	623	52.10	19	25.29	155	37.45	1.35	3.4	3.1	36	2	74	.14	4	.4	1.0	30	MLO
		28	734	.63	19	18.62	155	18.01	32.55	3.1	3.1	43	1	112	.10	2	.7	1.1	41	DEP
		31	145	35.76	18	54.78	155	14.68	11.69	3.1	3.8	35	0	248	.11	36	2.0	.8	22	LOI L
	SEP	3	140	33.35	19	39.38	156	7.48	41.46	3.2	3.0	44	1	246	.10	29	1.1	1.8	41	HUA
		5	2227	44.70	19	20.39	155	12.75	10.44	3.5	3.7	45	2	69	.10	4	.5	.4	43	SF2 F
		6	356	41.02	19	30.38	155	39.24	7.67	3.3	3.4	42	1	96	.12	6	.5	.6	37	MLO
		7	5	9 10.02	19	20.45	155	17.86	39.29	3.5	4.3	50	5	68	.11	1	.6	1.0	45	DEP F
		9	630	55.35	19	19.89	155	7.32	9.02	5.4	5.2	46	1	105	.10	5	.5	.4	45	SF4 F
		9	1027	33.74	19	20.29	155	3.58	8.19	2.8	3.0	44	4	114	.10	1	.6	.5	35	SF5
		9	1744	4.92	19	30.48	155	39.62	6.46	3.1	3.0	39	3	102	.13	7	.5	1.0	24	MLO
		12	1859	37.16	19	30.18	155	39.83	7.75	3.3	3.4	43	4	99	.11	7	.4	.6	30	MLO
		13	1939	57.53	19	21.25	155	3.14	8.89	4.0	4.0	50	1	110	.11	3	.6	.4	48	SF5 F
		14	254	59.83	19	30.58	155	39.58	5.02	2.7	3.0	43	4	97	.17	7	.5	1.5	32	MLO

YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	SEP	14	643	43.50	19	30.26	155	39.32	8.05	3.5	3.6	46	3	96	.13	6	.4	.5	37	MLO F
		14	855	58.36	19	30.65	155	39.24	7.70	3.0	3.5	42	2	51	.12	6	.4	.6	32	MLO
		14	13	0 15.20	19	21.43	155	3.03	8.41	3.6	3.7	49	4	115	.10	3	.5	.4	43	SF5 F
		14	1337	17.09	19	30.46	155	39.48	7.78	3.7	4.1	44	3	51	.13	7	.4	.6	41	MLO
		14	2239	31.17	19	20.30	155	12.00	8.63	2.4	3.0	43	2	76	.13	5	.4	.5	35	SF3
		16	922	12.22	19	30.19	155	39.19	7.68	4.0	4.1	46	2	50	.12	6	.4	.6	43	MLO F
		16	15	9 53.21	19	30.08	155	39.06	8.23	4.2	4.2	45	1	50	.13	6	.4	.5	44	MLO F
		17	2328	29.07	19	22.05	155	.07	6.38	3.5	4.0	46	3	175	.12	6	.6	.5	41	SF5
		21	834	49.35	19	19.18	155	26.48	11.24	3.1	3.5	51	5	55	.13	6	.3	.5	46	KAO
		22	2250	55.69	19	25.30	155	37.60	.14	2.9	3.1	34	1	75	.14	4	.5	.7	22	MLO
		23	721	5.17	19	43.82	156	10.70	39.42	3.0	2.1	37	2	255	.10	38	1.4	1.1	26	HUA
		23	2340	9.51	19	27.23	155	35.57	9.48	2.6	3.4	18	1	48	.13	1	.5	.9	8	MLO L
		26	2	2 22.47	19	17.87	155	46.59	10.63	3.0	3.0	40	0	90	.12	11	.5	.4	35	KON
		27	1944	32.79	19	19.78	155	8.27	9.37	3.2	3.5	45	3	85	.10	5	.5	.4	38	SF4 F
	OCT	1	017	25.80	19	30.87	155	39.36	6.87	2.9	3.3	40	3	78	.15	7	.5	.9	28	MLO
		2	138	27.61	19	19.49	155	12.17	9.99	3.4	3.6	43	1	89	.10	5	.4	.3	42	SF3 F
		4	1945	53.52	19	22.13	155	25.90	10.71	3.1	3.4	48	2	40	.15	3	.4	.5	43	KAO
		5	1853	30.47	19	30.52	155	39.47	6.58	3.2	3.4	41	3	77	.14	7	.4	.9	29	MLO
		7	134	21.95	19	19.72	155	7.59	8.85	2.9	3.2	48	6	102	.09	4	.4	.4	39	SF4
		7	1721	36.29	19	44.52	155	28.38	15.84	3.9	4.2	53	6	118	.10	5	.4	.7	45	KEA F
		8	1621	34.90	19	19.52	155	11.55	8.56	3.4	3.5	44	0	95	.09	6	.4	.3	41	SF3 F
		17	1254	19.35	19	25.66	155	37.77	1.55	2.7	3.2	36	4	96	.12	4	.4	.7	31	MLO
		21	2342	15.29	19	40.18	156	3.91	34.45	3.3	3.4	51	5	235	.11	25	.8	1.3	46	HUA
		22	438	55.05	19	22.23	155	24.51	10.51	2.8	3.1	48	1	27	.13	4	.3	.4	44	KAO
		24	249	32.57	19	20.76	155	3.81	8.10	2.9	3.0	44	2	94	.11	2	.6	.4	38	SF5
		24	19	5 26.25	18	52.50	155	10.15	43.57	3.4	3.3	50	3	256	.10	44	1.7	2.2	47	LOI
		25	11	2 35.36	19	29.69	155	38.85	8.21	4.0	4.1	45	2	80	.11	5	.5	.4	43	MLO F
		25	1338	16.11	19	42.32	155	2.77	4.79	2.5	3.1	30	0	192	.18	25	1.4	3.3	24	HIL L
		27	18	3 35.35	19	19.65	155	7.80	9.25	3.4	3.5	49	5	98	.10	4	.5	.4	42	SF4
		27	1853	13.76	19	19.65	155	7.76	9.09	3.2	3.3	46	3	99	.10	4	.5	.4	42	SF4 F
		29	1926	9.09	19	20.87	155	2.84	8.82	3.2	3.4	51	4	127	.13	2	.6	.4	42	SF5
		30	1549	14.52	19	27.07	155	27.25	9.73	3.9	4.0	51	4	52	.13	5	.4	.5	46	KAO F
	NOV	11	755	43.73	19	25.94	155	37.43	2.54	3.3	3.1	31	1	92	.12	3	.4	.8	30	MLO
		11	22	5 38.32	19	24.90	155	16.05	15.51	3.6	4.0	52	3	36	.11	2	.4	.2	47	DEP
		14	716	49.42	19	26.22	155	37.14	2.07	3.5	3.3	44	2	63	.14	2	.4	.6	39	MLO
		16	613	.15	19	25.76	155	27.11	10.92	4.5	4.7	36	0	56	.12	4	.4	.9	36	KAO
		16	1022	58.61	19	20.50	155	16.28	1.30	2.4	3.3	21	1	80	.11	2	.3	.6	17	SSF
		16	1045	50.41	19	25.36	155	19.62	6.16	2.9	3.2	35	2	46	.14	3	.4	.8	34	KAO
		16	1122	4.31	19	27.15	155	27.16	1.91	2.8	3.0	21	1	85	.12	5	.4	1.4	21	KAO
		16	1330	47.55	19	29.14	155	23.77	11.75		4.2	45	4	44	.11	6	.3	.4	43	KAO F
		16	1423	43.43	19	23.61	155	26.08	11.12	3.3	3.5	42	6	31	.11	3	.3	.4	38	KAO
		16	1457	42.92	19	27.19	155	23.54	9.08	3.1	3.4	43	5	41	.14	5	.4	.6	39	KAO
		16	1559	4.75	19	25.03	155	19.69	5.22	2.8	3.1	38	0	37	.12	2	.4	1.1	33	KAO
		16	16	8 28.83	19	25.62	155	19.43	6.40	3.5	3.7	38	1	39	.15	4	.4	.9	36	KAO
		16	1618	42.01	19	28.03	155	27.15	8.07	3.0	2.7	40	3	54	.12	6	.3	.7	32	KAO
		16	1733	.24	19	21.73	155	28.42	10.57		3.4	46	4	38	.12	2	.3	.4	41	KAO
		16	2117	23.43	19	30.07	155	27.18	3.43	3.0	2.9	41	2	58	.14	4	.3	1.0	36	MLO
		16	2212	46.03	19	18.01	155	15.85	9.76	3.1	3.3	43	1	140	.12	5	.5	.5	42	SF1

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YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	NOV	17	417	8.64	19	21.57	155	19.63	31.97	2.7	3.1	47	3	45	.12	4	.6	1.0	44	DEP
		17	1212	47.50	19	22.19	155	28.65	8.69	3.7	3.9	48	4	37	.12	8	.3	.7	38	KAO
		17	2330	39.61	19	28.32	155	21.15	1.99		3.7	39	3	115	.14	2	.4	.3	36	KAO
		18	133	35.41	19	21.04	155	29.63	6.23		3.0	41	3	45	.12	4	.3	.8	31	KAO
		18	3 1	54.99	19	25.40	155	19.76	3.84		3.2	43	3	46	.13	3	.5	.9	35	KAO
		18	651	4.78	19	24.95	155	21.92	11.04	2.5	3.3	49	6	36	.11	5	.3	.4	38	KAO
		18	742	30.87	19	50.56	155	34.70	16.01	2.9	3.0	42	3	111	.09	14	.6	1.3	28	KEA
		18	1624	21.56	19	29.92	155	26.68	1.93	2.9	3.2	41	2	49	.14	4	.3	1.2	29	KAO
		19	137	51.72	19	17.40	155	15.65	10.49	4.1	4.1	49	3	146	.13	5	.5	.5	47	SF1 F
		19	632	37.13	19	29.13	155	26.00	9.27	3.0	3.1	51	5	43	.14	5	.4	.6	44	KAO
		19	918	34.62	19	25.07	155	30.02	10.28	3.2	3.2	49	5	35	.12	6	.3	.5	42	KAO
		19	935	24.97	19	27.25	155	29.67	10.66	3.0	3.2	50	5	34	.12	9	.3	.5	43	KAO
		19	1130	32.21	19	25.08	155	21.44	11.98	3.0	3.2	46	5	34	.10	4	.3	.4	40	KAO
		20	356	43.30	19	22.38	155	28.37	6.90	3.2	3.5	25	0	63	.14	1	.5	1.0	16	KAO
		20	6 3	4.40	19	22.82	155	26.04	10.53	2.9	3.2	32	1	75	.11	3	.4	.4	19	KAO
		20	746	7.91	19	28.47	155	26.86	7.31	2.8	3.0	16	0	80	.09	7	.6	1.2	12	KAO
		20	10 8	28.41	19	22.65	155	28.32	9.18	2.6	3.1	49	5	36	.12	1	.5	.5	43	KAO
		20	1951	45.26	19	22.92	155	25.74	10.46	2.6	3.0	48	4	39	.13	3	.5	.4	40	KAO
		21	1448	45.74	19	22.15	155	29.93	8.83	2.6	3.1	46	2	33	.11	4	.3	.6	42	KAO
		22	439	15.73	19	18.86	155	13.38	9.30	3.1	3.1	50	6	77	.11	3	.4	.4	40	SF2 F
		22	553	11.34	19	56.49	155	31.11	34.18	3.2	3.8	52	6	159	.12	19	.7	1.7	45	KEA F
		22	830	8.80	19	56.54	155	31.07	35.42	3.6	3.9	51	4	159	.10	19	.7	1.5	45	KEA
		22	2032	30.04	19	31.50	155	24.93	23.97	3.6	4.2	51	3	47	.12	4	.5	.9	47	DML F
		23	038	45.93	19	27.88	155	26.87	8.57	3.1	3.0	52	8	54	.12	6	.3	.6	42	KAO
		23	233	40.58	19	23.55	155	26.08	11.17	3.8	3.7	49	4	27	.12	3	.5	.4	45	KAO F
		24	921	13.61	19	27.25	155	23.60	7.70	2.8	3.1	54	6	41	.16	5	.4	.7	44	KAO
		25	1817	32.98	19	8.95	155	34.93	11.11	3.7	3.9	50	2	121	.17	12	.6	.6	41	LSW F
		26	17 8	52.55	19	28.29	155	27.29	9.14	3.0	3.2	50	5	40	.12	7	.3	.7	44	KAO F
		27	927	31.66	19	21.48	155	2.99	8.87	3.9	4.0	52	4	117	.11	3	.5	.4	46	SF5
		27	13 1	12.79	19	21.68	155	24.15	13.74	3.2	3.4	47	6	42	.11	3	.4	.3	41	DEP
		27	1520	41.98	19	22.34	155	27.46	10.80	3.5	3.5	50	3	39	.13	0	.3	.4	47	KAO
		27	1539	18.48	19	22.29	155	27.50	9.69	3.1	2.9	50	6	40	.11	0	.3	.4	42	KAO
		27	1933	28.13	19	29.20	155	27.41	7.11	3.7	3.7	49	4	42	.13	5	.4	.7	45	KAO
		27	2129	29.76	19	21.39	155	30.32	9.50	3.3	3.4	49	4	32	.12	5	.3	.5	42	KAO
		27	22 5	51.93	19	4.19	156	15.06	34.92	2.9	3.0	45	1	283	.09	46	2.2	1.8	38	KON
		28	8 7	44.04	19	21.96	155	2.18	7.35	2.9	3.1	42	4	138	.13	4	.5	.5	32	SF5 F
		29	1019	54.64	19	22.53	155	23.26	14.12	3.7	4.1	50	4	45	.11	4	.4	.3	46	DML F
		29	1543	11.65	19	22.53	155	23.25	13.50	3.1	3.1	51	5	45	.11	4	.4	.3	43	DML
	DEC	2	23 7	53.99	19	21.56	155	5.88	8.38	2.5	3.1	42	3	86	.11	4	.4	.5	32	SF4
		4	739	19.99	19	28.81	155	27.77	6.88	3.2	3.7	45	5	54	.14	6	.4	1.0	37	KAO
		4	856	25.10	19	20.32	155	4.00	6.94	2.8	3.1	39	4	121	.09	2	.5	.5	30	SF5
		4	1143	32.74	19	21.09	155	3.12	7.78	3.5	3.9	42	4	122	.11	2	.6	.4	38	SF5
		4	1529	15.64	19	35.46	156	7.21	14.13	3.0	3.5	43	1	246	.15	31	1.9	1.2	41	KON
		4	1951	41.39	19	27.56	155	25.47	8.19	3.7	3.9	44	2	47	.15	4	.4	.7	41	KAO
		5	1313	48.34	19	31.82	155	27.42	4.18	2.9	3.5	41	4	45	.11	1	.3	.7	32	MLO
		5	14 2	23.22	19	19.63	155	13.25	9.11	2.6	3.4	42	3	71	.11	5	.4	.5	34	SF2
		6	120	12.89	19	29.06	155	26.22	7.63	3.0	3.1	48	4	57	.12	5	.3	.7	39	KAO
		6	741	14.98	19	27.65	155	15.20	32.29	3.3	4.1	40	1	41	.12	6	.6	1.4	33	DEP

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YEAR	MON	DA	ORIGIN TIME HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	AMP MAG	DUR MAG	NR	NS	GAP DEG	RMS SEC	MIN DIS	ERH KM	ERZ KM	NO FM	REMK
1983	DEC	6	1255	45.24	19	8.67	155	34.41	9.93	2.5	3.0	26	2	127	.21	12	.7	1.4	22	LSW
		7	345	11.37	19	22.29	155	29.73	9.30	2.9	3.2	45	2	33	.10	4	.3	.7	42	KAO
		8	1419	45.82	19	25.07	155	21.69	11.46	2.8	3.2	54	10	35	.11	4	.3	.3	47	KAO
		8	21 5	59.76	19	5.48	156	12.38	32.79	3.0	2.9	50	4	279	.10	40	1.2	1.2	47	KON
		9	2114	40.20	19	19.59	155	15.49	8.98	3.0	3.3	54	8	86	.13	3	.4	.4	45	SF1
		11	147	10.44	19	30.34	155	27.34	3.71	3.1	3.3	47	4	48	.13	3	.3	1.0	39	MLO
		11	1031	16.47	19	19.88	155	27.27	8.87	2.6	3.0	48	5	47	.15	5	.4	.6	41	KAO
		11	1128	26.64	19	11.82	155	32.75	9.21	2.7	3.0	45	2	92	.16	8	.5	.8	32	LSW
		14	2056	23.97	19	21.99	155	30.13	9.98	3.6	3.8	53	5	32	.10	5	.3	.5	46	KAO F
		18	14 3	38.22	19	24.72	155	19.71	6.59	2.9	3.4	47	8	37	.10	2	.3	.5	38	KAO
		18	2111	56.18	19	29.12	155	26.59	8.29	3.2	3.1	50	4	62	.13	6	.4	.7	42	KAO
		18	2341	31.74	19	21.50	155	30.08	9.62	3.3	3.6	51	6	33	.11	5	.3	.5	43	KAO
		20	354	59.40	19	7.69	156	7.13	32.88	3.2	3.6	46	0	269	.11	30	4.9	1.9	45	KON
		21	234	49.37	19	22.70	155	4.74	8.19	3.0	3.3	48	5	79	.10	4	.3	.5	31	SF5
		21	956	27.36	19	30.79	155	46.49	7.11	2.9	3.0	37	3	110	.14	1	.5	.7	31	KON
		21	15 6	18.40	19	21.03	155	30.09	2.72	3.2	3.6	44	3	34	.13	5	.3	1.2	36	KAO
		21	1518	7.00	19	20.73	155	29.77	6.34	2.7	3.0	39	3	46	.15	5	.4	.9	33	KAO
		21	1532	52.25	19	20.94	155	29.98	2.54	3.3	3.6	46	4	47	.12	5	.3	1.0	38	KAO
		22	929	48.77	19	20.78	155	15.55	33.73	3.3	3.6	52	4	74	.12	3	.6	.9	48	DEP
		23	841	48.83	19	18.01	155	13.38	7.77	2.6	3.0	38	0	88	.09	2	.5	.6	38	SF2
		23	2052	.03	19	11.30	155	28.59	6.79	2.9	3.1	51	5	124	.17	4	.6	.8	45	LSW F
		23	2053	33.09	19	12.98	155	27.69	8.29	3.0	3.3	49	4	107	.16	6	.5	.7	40	LSW F
		24	1727	7.84	19	21.78	155	27.99	5.63	2.8	3.0	45	3	40	.13	1	.3	.9	37	KAO
		25	639	40.53	19	46.24	155	53.56	30.04	3.1	3.0	46	4	191	.11	11	.7	2.0	38	HUA
		25	839	1.17	19	26.57	155	29.65	10.07	2.8	3.0	47	3	35	.12	8	.3	.5	40	KAO
		26	1259	59.07	19	19.94	155	9.74	7.11	2.4	3.2	45	2	84	.13	4	.5	.7	37	SF3
		27	1450	26.55	19	18.69	155	11.63	8.77	3.4	3.7	51	6	116	.10	4	.4	.4	41	SF3
		29	247	35.03	19	40.04	156	13.49	30.16	2.9	3.0	49	2	260	.13	38	1.6	2.1	41	HUA
		29	258	6.93	19	18.45	155	13.42	10.35	3.7	4.0	46	1	81	.09	3	.5	.4	43	SF2 F
		29	958	50.78	19	30.13	155	27.29	5.67	3.5	3.8	51	4	47	.14	4	.3	.9	46	MLO
		29	1150	11.82	19	25.40	155	37.64	.91	3.3	3.3	41	1	94	.12	4	.4	.9	32	MLO