USGS
science for a changing world

Hawaiian Volcano Observatory
1976 Annual Administrative Report

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

Compiled By Jennifer S. Nakata

Summary 76
January to December 1976
By Robert Y. Koyanagi, Karen Meagher,
Fred W. Klein, and Gary S. Puniwai

Chronological Summary
By Peter W. Lipman

Open-File Report 2007-1336
U.S. Department of the Interior
U.S. Geological Survey

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

U.S. Geological Survey
Mark D. Myers, Director

U.S. Geological Survey, Reston, Virginia 2007

For product and ordering information:
World Wide Web: http://www.usgs.gov/pubprod
Telephone: 1-888-ASK-USGS

For more information on the USGS—the Federal source for science about the Earth,
its natural and living resources, natural hazards, and the environment:
World Wide Web: http://www.usgs.gov
Telephone: 1-888-ASK-USGS

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 76

JANUARY TO DECEMBER 1976

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

Menlo Park, California

1978

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HAWAIIAN VOLCANO OBSERVATORY

SUMMARY 76
JANUARY TO DECEMBER 1976

BY
ROBERT Y. KOYANAGI, KAREN MEAGHER*, FRED W. KLEIN*,
AND GARY S. PUNIWAI

CHRONOLOGICAL SUMMARY
BY
PETER W. LIPMAN

OBSERVATORY STAFF

GEOLOGY

GORDON P. EATON (SCIENTIST-IN-CHARGE)
PETER W. LIPMAN
JOHN P. LOCKWOOD
ROBERT I. TILLING (SCIENTIST-IN-CHARGE)

GEOCHEMISTRY

REGINALD T. OKAMURA

GEOPHYSICS

LENNART A. ANDERSON
KENNETH T. HONMA
GEORGE KOJIMA
ROBERT Y. KOYANAGI
ERWIN MCPHERSON, JR.
ARNOLD T. OKAMURA
JENNIFER S. NAKATA
GARY S. PUNIWAI

SUPPORT

JOHN C. FORBES
WILLIAM E. FRANCIS
JACK E. HARRIS
MARIE S. ONOUYE
MAURICE K. SAKO
AKIRA YAMAMOTO
KENNETH M. YAMASHITA

*OFFICE OF EARTHQUAKE STUDIES, MENLO PARK, CALIFORNIA

CONTENTS

CONTENTS (continued)

INTRODUCTION

The Hawaiian Volcano Observatory (HVO) summaries present data gathered during the year together with a chronological narrative intended to describe in geologic terms the volcanic activity associated with the seismic events and tilt data included. The seismic, tilt, and chronological summaries are 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 recently shifted from quarterly measurements at a few water-tube tilt stations ("wet" tilt) to a larger number of continuously recording borehole tiltmeters and repeated measurements at numerous spirit-level tilt stations ("dry" tilt). To maintain continuity with past summaries, we will continue to publish weekly data from the Uwekahuna vault tiltmeter (Kilauea summit) and from water-tube tilt stations as they are reoccupied. A comprehensive summary of the numerous and varied tilt and deformation data now gathered is beyond the scope of this publication.

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 (Koyanagi, et al.) 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.

Publication of the summary represents a group effort by the staffs of the Hawaiian Volcano Observatory and the National Center for Earthquake Research in Menlo Park, California.

1976 CHRONOLOGICAL SUMMARY

No eruptive activity occurred at either Kilauea or Mauna Loa during 1976 -- the first such quiet year on the Island of Hawaii since 1966. Perhaps the most impressive feature recorded at HVO was the continued high seismicity along Kilauea's south flank, reflecting aftershock activity from the November 1975 M = 7.2 earthquake.

The large deflation at the summit of Kilauea related to this earthquake finally bottomed out in February, with a total southeasterly tilt of 241 microradians at Uwekahuna Vault. Extensive Geodimeter and leveling studies of the entire Kilauea network, carried out during the winter and spring, showed that the Kilauea summit area subsided 1.7 meters, and that along the coast between Halape and Keauhou Landing subsidence was as much as 3.5 meters (Tilling et al., 1976). The entire Kilauea area moved seaward in a horizontal component, including areas mauka of the two main rift zones. Preliminary displacement solutions indicate a maximum horizontal displacement vector of 8-9 meters southward at Kalue.

Through the remainder of 1976 the Kilauea summit area showed a distinctive pattern of ground deformation, different from that observed for the past 10 years, that appears to reflect continued adjustment to effects of the 1975 earthquake and related aftershocks. Weak summit inflation--only a few microradians per month--was accompanied by sizable continued seaward horizontal motions of the entire summit area that tended to overwhelm the effect of the inflation. On June 21 and again on July 14 this pattern was interrupted by an abrupt 5-10 microradians of summit deflation accompanied by swarms of sharp earthquakes along the upper east rift zone. Both events were interpreted as marking draining of lava from the summit area into the the east rift zone, with accumulation of lava occurring mainly along upper parts of the rift system. Some connection with lower parts of the east rift zone was also indicated, however, by strikingly increased steaming, centered on the south flank of the prehistoric Heiheihulu cone, that broke out in the spring, and by sizable extensions along geodimeter lines in the same area.

An unusual espisode of large prolonged aseismic deflation at the summit of Kilauea occurred in August and September. Deflation continued at a rate of almost 2 microradians per day, totaling about 40 microradians and finally stopping at about the same level reached during the major subsidence associated with the November, 1975 earthquake. During the deflation episode levels of seismic activity were in no way anomalous, and this deflation episode thus appears unique for the 20-year period for which modern tilt data are available. Previous deflations of similar magnitude have been associated either with a flank eruption or with pronounced local seismicity that marked the locus of shallow intrusive activity. At year's end Kilauea was again in a pattern of steady slow inflation.

Mauna Loa was characterized throughout 1976 by continued summit inflation, accompanied by a surprisingly low level of seismic activity. Earthquake frequency, which was at a high level for 14 months before the July 1975 summit eruption, decreased to near-background levels by late fall 1975 and fluctuated little during the following year. Dry-tilt and Geodimeter measurements showed, however, that the summit area had begun to reinflate immediately after the 1975 eruption, and inflation continued at a high rate through 1976. Tilt

occurred at a rate of 3-5 microradians per month, and Geodimeter lines across Mokuaweoweo extended by as much at 15 mm/month. Measurements at Mauna Loa's summit for the time interval August-December 1976 suggested a slight slowing in the rate of inflation, but the changes were too small to be interpreted with confidence. Much HVO staff effort during 1976 was directed to increasing the geodetic baseline control for Mauna Loa, especially Geodimeter and dry-tilt nets.

Reoccupation for the first time of the "super triangle" Geodimeter lines between Mauna Loa, Mauna Kea, and Hualalai, showed an outward directed displacement vector for the north rim of Mokuaweoweo consistent with summit inflation, and permitted for first time tying to a stable base line the geometry of summit inflation. Both these results and the dry-tilt data demonstrated that the center of Mauna Loa inflation is asymmetric with respect to Mokuaweoweo caldera, lying near the southeast margin of the caldera. This asymmetry is strikingly similar to that long and well documented at Kilauea.

The continued summit inflation of Mauna Loa, as well as the historic record for this volcano in which flank eruptions have typically followed summit activity within a few years, led to the forecast by HVO of a probable Mauna Loa rift eruption within three years after the July 1975 summit activity (Lockwood, et al., 1976). Considerable staff activity was directed toward briefing civil defense and other state and local government officials about contingency planning, should Mauna Loa erupt along its northeast rift and threaten Hilo. Additional planning and several field exercises were devoted to enhancing techniques of lava diversion. At the end of the year the HVO staff was becoming increasingly uncertain about the Mauna Loa prediction, however, because of the continued seismic lull as well as the obvious fact that the 25-year period of inactivity at Mauna Loa between 1950 and 1975 was itself atypical in terms of the historic record for this volcano. One obvious major need, for both Mauna Loa and Kilauea, is the reliable geologic understanding of recurrence intervals for different types of activity, that would extend our frame of reference back beyond the 150 years of written history for these volcanoes.

SEISMIC INSTRUMENTATION

The network. The Hawaiian Volcano Observatory has installed and maintains an extensive telemetering seismometer network on the island of Hawaii. In January 1976 the seismometer network consisted of 40 stations spread over an area with a diameter of 125 kilometres on the island of Hawaii (Figs. 1 and 2). Of these 40 stations, two are low-gain multicomponent stations (optical), six are two-component, three are three-component, and twenty-nine are vertical only. The coverage is most complete on and around the main center of seismic and volcanic activity, Kilauea Volcano. Other stations in the network are part of a larger net located on other volcanoes of the island of Hawaii. With the exception of HIL, all seismometer signals from the short period network are telemetered to the observatory for recording. During 1976, station DAN on the southeast rift of Mauna Loa was added, and station SCA was moved a short distance and renamed WIL.

Figure 1 is a map of selected geographic and geologic features, and Figure 2 shows the seismic stations which were operated or added during the year. Table 1 lists all seismic stations operated by the U.S. Geological Survey in Hawaii during 1976. Listed are station name, three letter code, coordinates in degrees and minutes, elevation in meters, and other data described below.

Instrumentation and recording. Each telemetering station has a voltage controlled oscillator (VCO) for FM multiplex transmission to HVO via either hardwire or VHF radio. The VCO frequencies are listed in Table 1. These telemetering stations are now all of Type 1, the NCER standard system used in USGS seismic networks (see Table 2 for details). After discrimination, the analog signals from thirty-two stations are recorded on two Develocorders using 16mm microfilm. Beginning in late 1975, FM signals from the telemetering network were recorded directly on one inch magnetic tape. Selected larger events are copied onto condensed library tapes which are currently archived in Menlo Park.

Develocorder records are read on a film viewer with 20x magnification. Arrivals are read to the nearest 0.05 second. The recorded arrival times, amplitudes (where readable), and other key data are routinely sent to N.C.E.R. in Menlo Park for computer processing.

In addition to the standard stations, optical seismographs are maintained at Uwekahuna (HVO), Hilo, Maui, and on Oahu (Kipapa station operated by Honolulu Observatory). The less sensitive short period records are used primarily for S data and amplitude measurements for magnitude calculations to supplement readings from 16mm film. Optical seismographs listed in Table 1 are of four types. Types numbered three and four are electro-mechanical systems of high and low gain respectively. Hilo and Haleakala are each equipped with two low-gain Wood-Anderson torsion seismographs. Long period Press-Ewing seismographs record in three components in the Uwekahuna vault. The paper (optical) records as well as the 16mm develocorder microfilm are archived at HVO.

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 magnifcation of the standard NCER 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 the factors CAL listed in 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,and major changes in attenuation or recalibrations are listed in Table 1 along with the dates they took place. Minor changes in CAL factors may not be listed if they are less than 20%.

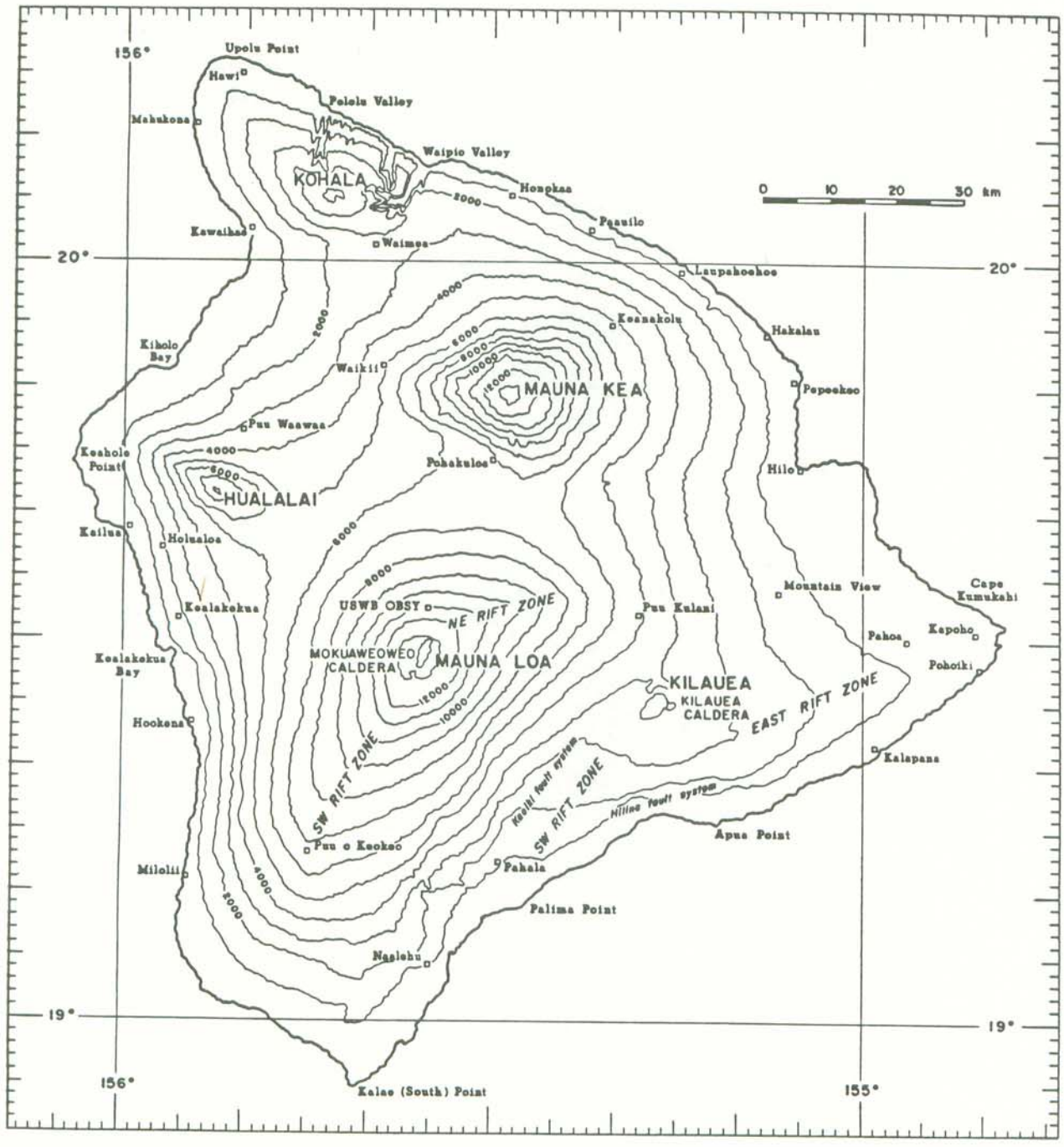

Figure 1 Map of the island of Hawaii showing principal settlements and selected geographic and geologic features.

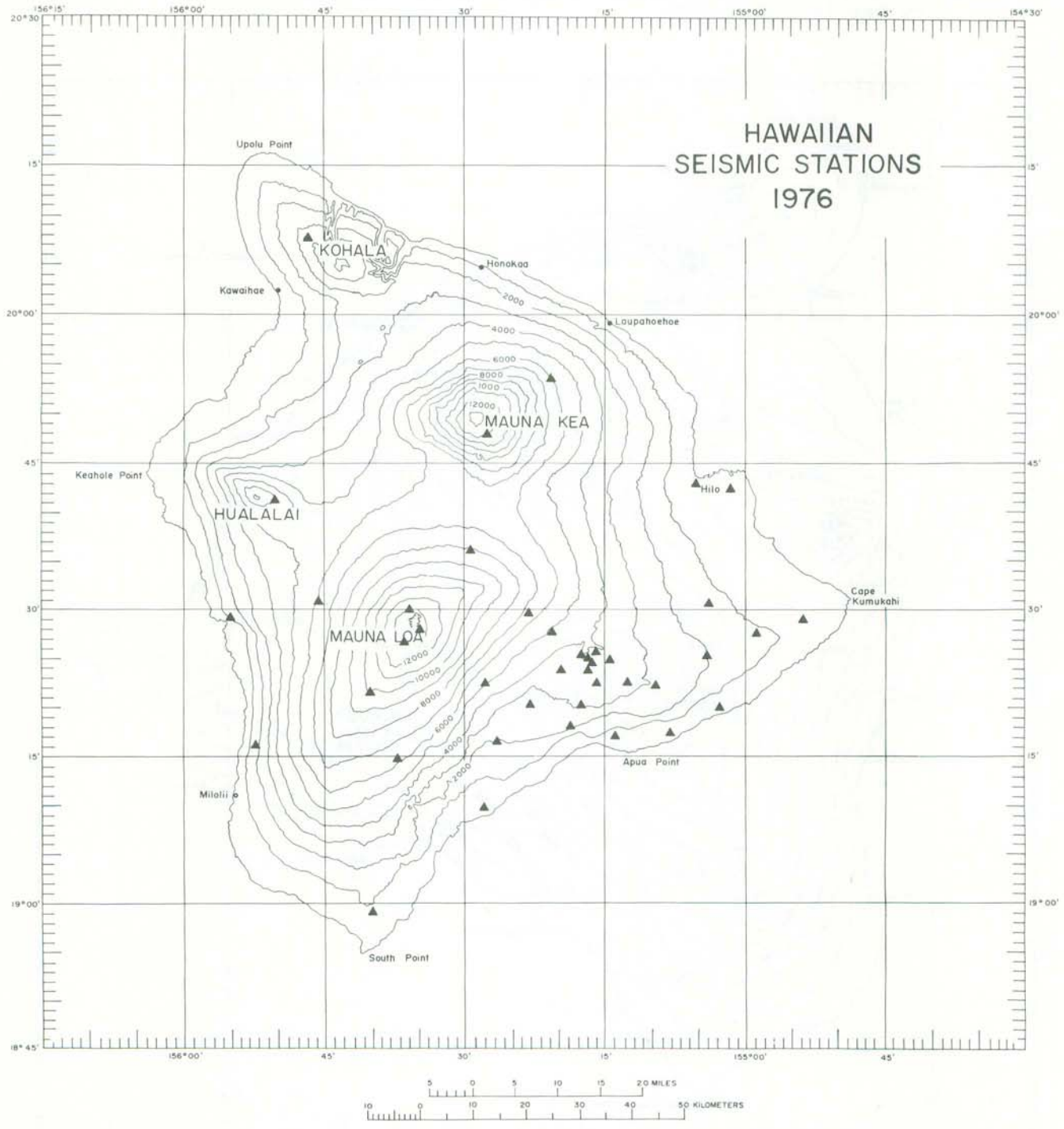

Figure 2 Map of the island of Hawaii showing seismic stations operated by the U.S. Geological Survey.

TABLE 1.Seismometer stations in Hawaii operated by the U. S. Geological Survey, 1976.

Station Name	Code	LAT-N	LON-W	Delay	ELEV	VCO	Old Type/Cal	Date of Change	New Type/Cal
AHUA	AHU	19 22.40	155 15.90	.06	1070	2380	1 3.8	76/09/29	1 4.3
AINAPO	AIN	19 22.50	155 27.62	.33	1524	1020	1 8.5		
	AINE					2380	1		
	AINN					2720	1		
CAPTAIN COOK	CAC	19 29.29	155 55.09	.15	323	1360	1 3.3	76/01/22	1 5.4
CONE PEAK	CPK	19 23.70	155 19.70	-.04	1038	1700	1 4.0		
	CPKH					1020	1		
DANDELION	DAN	19 21.42	155 40.04	-.07	3003	2380	none	76/05/10	1 4.8
DESERT	DES	19 20.20	155 23.30	-.10	815	680	1 4.8	76/03/16	1 4.2
ESCAPE ROAD	ESR	19 24.68	155 14.33	.01	1177	1360	1 1.7	76/09/21	1 2.0
HALE POHAKU	HPU	19 46.85	155 27.50	.42	3396	2720	1 4.5	76/10/02	1 4.7
HILINA PALI	HLP	19 17.96	155 18.63	.18	707	2040	1 5.0	76/01/05	1 4.0
HUALALAI	HUA	19 41.25	155 50.32	.58	2189	1700	1 2.2	76/01/27	1 2.6
HUMUULA	HSS	19 36.31	155 29.13	.35	2445	1700	1 6.2		
	HSSE					680	1		
	HSSN					2720	1		
KAAPUNA	KAA	19 15.98	155 52.28	.00	524	1020	1 4.9	76/12/01	1 5.2
KAENA	KAE	19 17.35	155 7.95	.15	37	2380	1 2.2	76/10/27	1 1.3
KAHUKU	KHU	19 14.90	155 37.10	.08	1939	1700	1 3.5		
KALALUA	LUA	19 24.55	155 04.25	-.02	622	1020	1		
KANEKII	KII	19 30.56	155 45.90	.18	1841	1700	1 7.1		
	KIIE					1020	1		
	KIIN					1360	1		
KAPAPALA RANCH	KPR	19 16.40	155 26.70	.05	610	1700	1 4.33	76/01/26	1 6.0
KEANAKOLU	KKU	19 53.39	155 20.58	.86	1863	2380	1 2.3		
KIPUKA NENE	KPN	19 20.10	155 17.40	.07	924	1360	1 5.0	76/08/16	1 6.4
KOHALA	KOH	20 7.69	155 46.77	.21	1166	2380	1 2.4		
MAUNA LOA	MLO	19 29.80	155 23.30	.24	2010	1360	1 10.5	76/01/29	1 10.0
	MLOH					2040	1		
MAUNA LOA X	MLX	19 27.60	155 20.70	.27	1474	1360	1 2.1		
	MLXH					2720	1		
MAKAOPUHI	MPR	19 22.07	155 9.85	-.01	881	2720	1 2.1	76/01/12	1 3.3
MOKUAWEOWEO	MOK	19 29.28	155 35.98	.28	4104	2040	1 7.5	76/09/23	1 5.4
MOUNTAIN VIEW	MTV	19 30.25	155 3.75	.17	409	680	1 3.2	76/11/18	1 7.8
NATIONAL GUARD	NAG	19 42.12	155 1.72	.63	18	1360	1 8.5	76/02/11	1 10.2
NORTH PIT	NPT	19 24.90	155 17.00	-.06	1115	680	1 9.0	76/08/17	1 4.4
OUTLET	OTL	19 23.40	155 16.80	.02	1084	1360	1 4.15	76/09/22	1 4.9
	OTLH					2040	1		
PAU	PAU	19 22.62	155 13.10	-.06	994	2040	1 3.8		
	PAUH					1020	1		
POLIOKEAWE PALI	POL	19 17.02	155 13.47	.10	169	2720	1 4.8		
PUU HOHUAULA	PHO	19 28.90	154 53.40	.03	215	2720	1 4.8	76/01/06	1 1.9
PUU PILI	PPL	19 9.50	155 27.87	.24	35	1360	1 2.2		
RIM	RIM	19 23.90	155 16.60	.02	1128	1020	1 7.3		
	RIMH					2040	1		
SOUTH POINT	SPT	18 58.91	155 39.92	-.07	244	2040	1 3.6		
SOUTHWEST RIFT	SWR	19 27.26	155 36.30	.14	4048	1020	1 2.4		
SUMMIT CABIN	SCA	19 28.20	155 35.08	.30	4048	1700	1 11.5	76/12	off
TANGERINE	TAN	19 27.79	154 58.51	.02	351	1020	1	76/03/17	1 8.0
WAHAULA	WHA	19 19.90	155 2.92	.06	29	680	1 3.66	76/10/27	1 2.3
WALDRON LEDGE	WLG	19 25.49	155 15.69	-.02	1067	2380	1 2.2		
WILKINS	WIL	19 28.15	155 35.02	.30	4037		none	76/12	1 5/1

TABLE 1. (continued) Optical Seismographs

HALEAKALA Z	HAL	20 46.00	156 15.00		2090	3	0.71
HALEAKALA EW	HAE	20 46.00	156 15.00		2090	WA	1.0
HALEAKALA NS	HAN	20 46.00	156 15.00		2090	WA	1.0
HILO Z	HIL	19 43.20	155 5.30	.64	20	3.	1.0
HILO EW	HIE	19 43.20	155 5.30	.64	20	WA	1.0
HILO NS	HIN	19 43.20	155 5.30	.64	20	WA	1.0
KIPAPA	KIP	21 25.40	158 .90		76	3	0.56
UWEKAHUNA Z	UWE	19 25.40	155 17.60	.06	1240	3	0.7
UWEKAHUNA Z	USZ	19 25.40	155 17.60	.06	1240	4.	1.0
UWEKAHUNA EW	USE	19 25.40	155 17.60	.06	1240	4.	1.0
UWEKAHUNA	PEZ	19 25.40	155 17.60		1240	PE	
UWEKAHUNA	PEE	19 25.40	155 17.60		1240	PE	
UWEKAHUNA	PEN	19 25.40	155 17.60		1240	PE	

Table 2. -- Seismic Instrumentation Types

Type 1. Consists of:

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

b) Preamp/VCO Develco Model 6202 voltage controlled oscillator or a USGS/NCER Model JE202. 3 db points for bandpass filter at 0.1 Hz and 30 Hz. Signals are transmitted on audio FM carrier over cable or FM radio link to HVO. USGS Model J302 was introducted in 1974.

Type 3. Consists of:

a) EV-17 - Electrotech EV-17 (as described above), Hall-Sears HS-10 0.5 sec. period moving coil seismometer or Observatory-built 0.8 sec. period moving coil seismometer with HVO-built solid state seismic preamplifier (voltage gain, 2000X), or Observatory-built electronmagnetic seismometer approximately 40,000 at 4 Hz.

Type 4. Consists of:

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

Experimental type amplifier systems are not given type numbers.
Type 2 instruments have been discontinued.

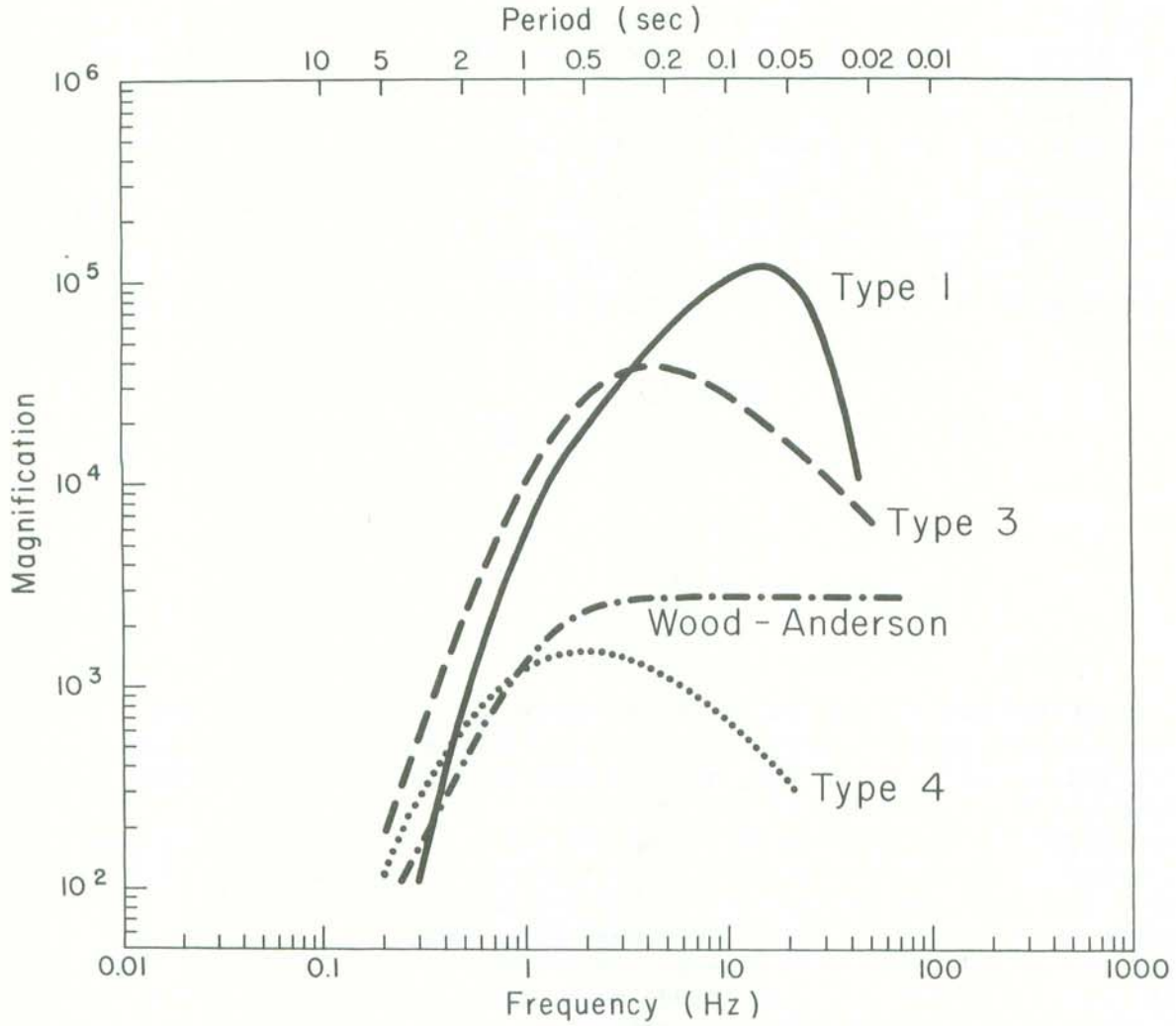

Figure 3. System response curves for the Wood-Anderson torsion seismograph and for the 3 different types of seismometers in use by the Hawaiian Volcano Observatory. Types 3 and 4 are electro-mechanical seismographs recorded optically on photographic paper. Type 1 is the standard NCER seismometer recorded on Develocorder film. 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 the factors CAL listed in Table 1 to get the response for an individual station.

SEISMIC DATA PROCESSING

Earthquakes are located by the combined efforts of HVO and NCER in Menlo Park. Develocorder films are read at HVO, and lists of P and S arrival times, event amplitude and duration, clock correction, etc. are sent to Menlo Park. Data are then keypunched, computer locations are made using the program HYPOELLIPSE (Lahr, et al., in preparation), and problem events are reread at HVO and rerun. Card and magnetic tape copies of all arrival time (phase) and output summary data (one card per event), are kept in Menlo Park. All computer output (including first motion plots) are on microfiche, and copies are available for inspection at HVO and in Menlo Park.

The crustal model used consists of flat, homogeneous layers and contains a embedded low velocity zone. It is a modified version of Crosson's (1976) model and is:

LAYER	VELOCITY (km/sec)	DEPTH TO TOP (km)
1	2.00	0.0
2	3.25	0.8
3	6.00	2.0
4	6.40	5.5
5	5.30	9.5
6	8.30	13.0

An empirical set of station delays or corrections were used in the locations, and are given in Table 1. They have been adjusted so the mean delay of Kilauea stations is zero, and are most appropriate for locating earthquakes on the south side of the island.

Magnitudes for most events were computed using both recorded amplitudes on calibrated stations and signal or coda duration on short-period vertical stations. Amplitude magnitudes used by HVO are based on readings from Wood-Anderson seismographs. Amplitudes read from other instruments are corrected to an equivalent Wood-Anderson amplitude using the curves of Figure 3 and CAL factors of Table 1. 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, KAA, OTL, or PPL.

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 to about twice the noise level, or to about 1 cm peak-to-peak on the Develocorder viewer. A plot of log (F-P time) versus local (amplitude) magnitude appears in Figure 4. The bilinear relation shown in the figure 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).

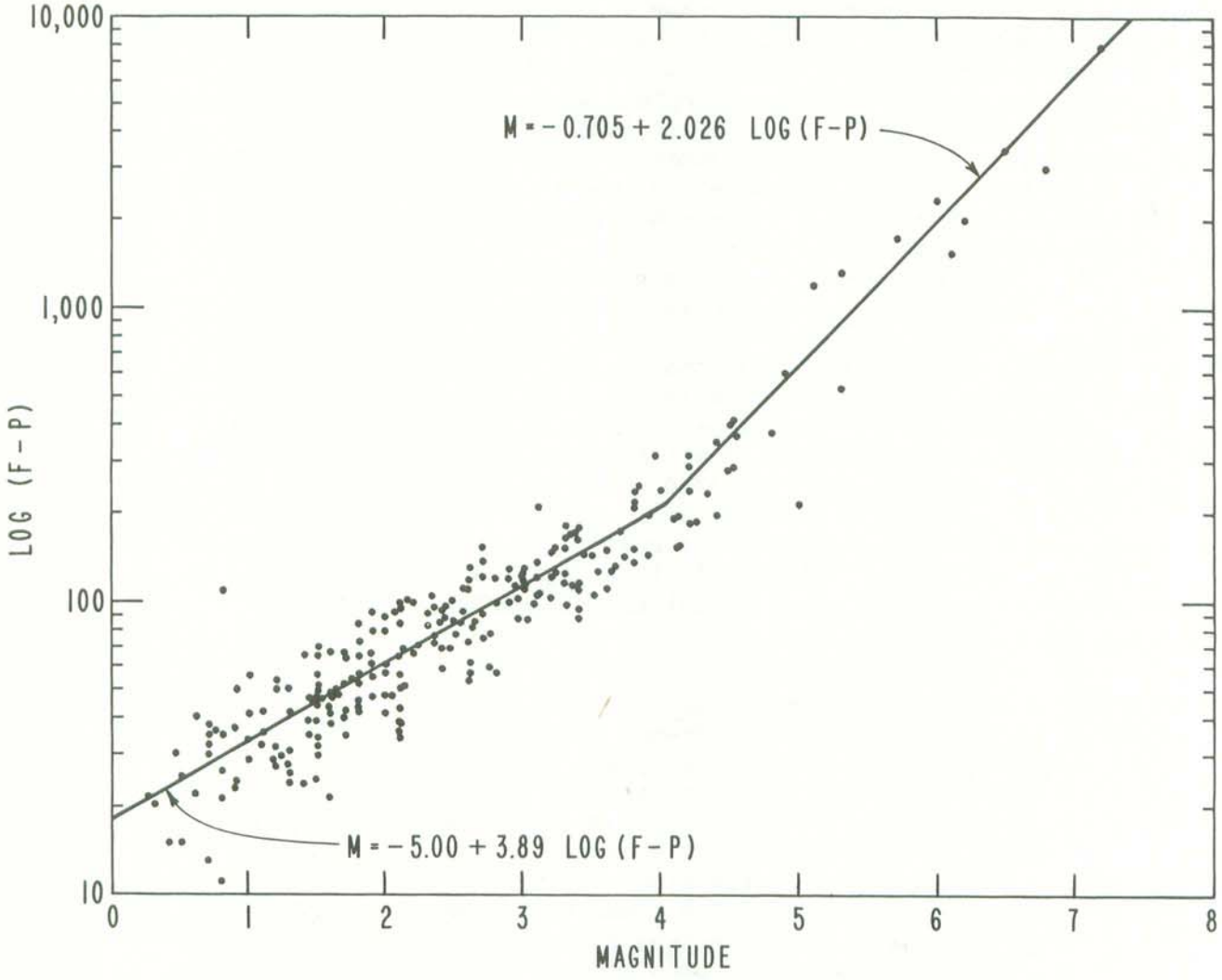

Figure 4. Relationship between signal duration (F-P time) and local magnitude for a large number of earthquakes which occurred during 1975 and 1976. Local magnitude is determined from amplitudes read on Wood-Anderson and other calibrated seismographs. The dual linear relationship between magnitude and log(F-P) appears to hold over a magnitude range of 7 units.

SEISMIC SUMMARY

The emphasis in both station coverage and detailed data analysis is on the highly active south flank 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 to 2.5. 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 of all depths are given in Figures 5, 6, 7 and 8. The epicenter maps are on two 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 in some cases on its depth. Figure 9 is a map 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 Figure 9. Table 6 relists the events in Table 5 for which either duration or amplitude magnitude is 3.5 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. Tremor is separated into three categories: Deep, Intermediate, and Shallow, on the basis of relative amplitude on seismographs in the summit region. Unless otherwise stated, tremor is presumed to be associated with movement of magma within the central complex of Kilauea Volcano. Earthquake categories are: Kilauea Summit 30 km, earthquakes from about 30 km beneath the summit region; Kilauea Summit long-period, earthquakes characterized by low-frequency waves from intermediate depths roughly 5-10 km beneath the summit region: Kilauea Summit Shallow, earthquakes from within a few km beneath the caldera region; SW Rift and Kaoiki, earthquakes along the southwest rift zone of Kilauea and the adjacent portions of the Kaoiki fault system; Upper East Rift, earthquakes from the upper east rift zone of Kilauea; Koae, earthquake from along the northeast-trending Koae fault system south of the caldera; Lower East Rift, earthquakes from the lower east rift zone of Kilauea; South Flank, faults on the south flank of Kilauea; Mauna Loa L-P, earthquakes characterized by low-frequency waves from Mauna Loa volcano; Mauna Loa S-P earthquakes from within a few kilometers beneath the summit of Mauna Loa; Offshore PPL, earthquakes from mostly offshore areas south of Puu Pili station.

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes											
				Kilauea Summit			Kilauea Flank				Mauna Loa		Off-shore PPL	Remarks and Events of Interest
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P		
Jan 1				1	16	37	570	890	131	292	7	1		LPD-1, offshore-1
2				1	9	78	481	807	128	266	2		3	
3					5	84	131	451	116	126		11		Kona-3
4				5	6	146	469	865	141	59	1	2	3	
5	2m				17	216	325	656	99	59				Power outage 1900-2100, LPD-1
6					21	170	327	666	78	106	2	1	1	
7					12	88	397	756	16	105	9	10		Kona-2
8					35	56	329	665	81	101	7	6		NER-1
9					13	154	365	676	79	173	4	5		Kona-2, LPD-1
10	3m			2	38	71	402	761	90	185	2	3	2	LPD-2, NER-2
11				5	44	88	369	664	93	151	2	3		LPD-3
12				2	40	66	310	670	75	128	2	2	1	
13	17m		5m	3	9	89	329	915	114	142	2	4	8	Kona-2, LPD-12
14				1	59	113	391	985	99	150	16	14	1	LPD-2
15				9	37	85	439	926	77	158	11	5		LPD-2
16		20m		12	55	149	438	823	83	177	2	18	3	
17		10m		5	5	126	402	736	72	196	1	1		LPD-3
18					5	170	417	1035	72	208	3	6		LPD-2, Kona-1
19	31m			2	34	125	432	922	96	132	14	8		LPD-1, NER-2
20	10m			2	41	109	353	912	94	102	18	13	3	Kona-1, LPD-3, NER-1
21	15m			3	31	136	276	909	120	75	17	7		Kona-1, Kohala-1, 15 km-1, LPD-6
22	2m			3	119	135	316	925	100	105	9	11		LPD-9, Kona-1
23	3m			1	118	105	127	496	83	125	4	15		Kona-1
24	7m[1/]			1	8	119	263	825	110	121	9	8	17	LPD-1
25				4	13	125	362	877	103	118	4	3	1	Mauna Kea-1, LPD-2
26				3	20	126	313	819	146	88	9	9		Kona-2, LPD-1, NER-2
27				1	14	94	266	691	93	73	25	5	2	LPD-3, NER-1
28				3	11	87	326	884	103	120	10	5	1	
29	2m				9	118	329	1009	87	148	3	8	2	
30				1	19	263	320	816	119	100	2	2		Kona-1
31				2	14	227	294	892	284	92			3	LPD-2

1/MOK-Tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes										
				Kilauea Summit			Kilauea Flank				Mauna Loa			
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P	Off-shore PPL	Remarks and Events of Interest
Feb 1	6m			1	11	123	326	934	134	110		1	1	
2				1	23	146	246	995	143	215	3	3		Mauna Kea-1, Kona-2
3	2m			1	23	141	261	985	151	241		7		
4					13	192	167	790	69	65	1	4	1	LPD-1
5					3	72	242	582	87	107	1	5	9	Heavy rains, LPD-1
6		5m		1	15	155	237	691	38	91		11	1	Electrical storm
7				1	11	87	216	752	86	126	2	7	3	15 km-1, LPD-1
8					8	100	228	776	90	74		1		
9					2	86	213	807	92	71	3	4		Kona-2
10					24	326	183	903	161	70	4	4		LPD-1
11	4m[1/]	3m[1/]			6	208	231	874	150	72		10	1	NER-2, Kona-1
12				1	7	146	175	600	97	67	4	4	1	LPD-2, Kona-1
13	20m				1	67	41	222	25	70		8		High winds
14						104	174	530	54	93	1	5		Heavy rains
15	15m					71	31	253	43	59		6		High winds
16					7	122	123	612	68	50				Heavy rains, Kona-1
17					7	150	150	646	68	62	2	8	2	Kona-1
18				1	9	183	165	732	90	60	2	12		
19	4m			3	10	202	219	779	74	48	8	2		
20	2m				22	141	145	660	41	79	3	3		Kohala-1, LPD-1, Kona-3
21	36m			1	8	98	202	551	43	73	3	1	1	
22	5m	2m		1	23	118	221	593	41	59	2			LPD-2
23	9m				1	64	126	717	56	34	4			Kona-1
24				3	6	120	121	655	65	31	5	9		NER-2
25			2m[1/]	4	26	511	119	750	27	99	1	28		LPD-1, NER-5
26	25m				14	263	64	627	15	51	2	16		NER-4, Kona-1
27		3m	10m	2	8	143	52	858	20	99	2	9		NER-3
28			10m	1	12		65	835	25	98	4	8	1	NER (2), Kona (2), Electrical storm
29					25		177	857	74	97	6	3		

1/MOK-Tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes										
				Kilauea Summit			Kilauea Flank				Mauna Loa			
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P	Off-shore PPL	Remarks and Events of Interest
Mar 1				1	1	97	174	677	72	92	2	4		Kona-2
2				1	2	103	192	754	56	77	3	1	1	
3	4m			1	29	220	152	880	81	74		5		LPD-2, Kona-2
4					7	135	168	842	114	84		1	1	NER-1, Kona-1
5	10m				10	113	41	328	43	66	32	2		
6	2m			1	23	123	40	413	54	50	1	6		
7				1	14	110	141	717	62	66	2	2		
8	4m	7m[1/]			12	91	152	671	88	80	21	13		
9				1	15	256	158	820	75	94	4	3		
10				1	28	185	148	826	62	82	1	2		LPD-5
11				3	50	98	168	733	79	80	1	2		LPD-8, Kona-1
12				1	15	172	161	697	60	74	1	2		LPD-1
13				2	9	180	177	841	79	75		1		Kona-2
14				1	35	161	140	737	90	75	1	2		LPD-11
15	3m	7m		1	17	183	144	757	78	86	2	2		LPD-8
16				1	13	150	140	697	77	77	4	2		NER-1, LPD-7
17				1	15	128	156	804	79	83	11	3		LPD-2
18	2m			3	42	185	139	791	77	86	7	8		Kona-2
19	10m[1/]	20m			34	130	52	1017	14	72	1	5		Mauna Kea-1
20	6m[1/]		20m	3	69	99	76	711	15	55	11	2		
21				1	59	109	152	570	43	60		1		Kona-1
22		2m		4	11	135	121	582	53	65	5	6		LPD-4
23				1	9	158	120	661	51	61	1	8		Kona-1
24	37m		11m[1/]		9	135	135	647	60	64	8	3		Offshore-1, Kona-1
25				2	5	146	132	641	79	86	11	13		Kona-3
26					6	129	39	316	48	49		10	1	
27					79	143	38	346	58	69		5		
28	7m		3m	1	1	82	107	552	65	36	7	9		Kona-2
29		10m[1/]		2	13	71	133	564	49	27	13	17		LPD-1
30				2	9	70	101	471	43	44	13	20		LPD-1, Kona-2
31				1	1	56	85	433	19	44	35	18		

[1/] MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes										
				Kilauea Summit			Kilauea Flank				Mauna Loa			
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P	Off-shore PPL	Remarks and Events of Interest
Apr 1					8	62	81	488	33	68	22	10		LPD-1
2					22	438	99	711	49	51	7	6		Kona-2
3		8m		2	17	191	74	714	65	56	7	5		LPD-1
4					4	87	102	486	21	48	3	2		Kona-3
5			2m[1/]		24	104	80	402	37	36	7	5		High winds
6					4	121	77	449	48	35	9	2		High winds
7	2m[1/]		4m[1/]		11	147	110	594	43	47	5	4		High winds
8				3		186	103	654	6	46	3	4		LPD-1
9					11	169	58	815	11	40		9		NER-3, Kona-1
10					24	163	37	579	6	34		3		Power outage 1200-1300
11		20m			29	161	55	573	17	61	5	6		NER-1, Kona-1
12				2	3	172	115	589	37	45	3	12		
13	2m			1	18	166	88	475	48	32	3	2		
14		6m		2	34	99	93	527	37	46	20	5		Kona-1
15	15m			2	1	91	94	494	41	61	7	3		Kona-1
16					7	114	37	273	37	64		5		
17					28	160	30	338	47	70		6		
18				3	9	452	110	972	91	38		1		Kona-1
19				2	10	137	118	546	54	63	5	11		Kona-2
20					8	70	109	448	49	42	2	3		Kona-1
21	5m				9	118	125	532	55	53	9	5		Kulani-1, Offshore-1, LPD-1, Kona-1
22	48m 3m[1/]			2	9	105	101	484	50	52		8		Kulani-1
23					21	107	75	432	27	57	2	1		
24				1	11	159	104	584	68	68		1		Kona-1
25				2	11	209	129	636	67	71	4			LPD-9
26					7	261	142	583	75	49	5	3		Kona-3
27				2	13	229	104	507	71	75	9	11		
28	8m			1	15	223	131	629	78	56	11	6		Kona-1, LPD-5, NER-5
29	10m			2	13	178	135	572	65	70	2	6		Kona-2
30	32m				20	155	52	354	10	54	9	13	1	LPD-6

[1/] MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes										
				Kilauea Summit			Kilauea Flank				Mauna Loa		Off-shore PPL	Remarks and Events of Interest
	Deep	Inter-mediate	Shallow	30KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P		
May 1	69m	10m		2	23	177	132	424	54	65	2	9		Kona-1, Mauna Kea-1 LPD-53, NER-1
2	174m	2m[1/]		1	9	190	133	458	77	104		3		Kona-3, LPD-12, NER-1
3	22m				12	152	106	543	61	83	26	9		Kona-3, LPD-19, NER-5
4					14	161	87	504	42	66	4	3		LPD-10, Kona-2
5				1	5	172	87	633	50	72	10	6		Kulani-3, LPD-4, NER-6, Kona-3
6					4	196	85	503	64	86	20	33		NER-1, Kona-1
7					1	160	20	249	51	49	5	43		
8	40m					182	29	258	53	79	19	26		
9				1	2	117	94	471	36	64	10	10		Mauna Kea-1, NER-2, Kona-3
10					8	157	86	557	64	76	18	8		NER-2, Kona-1
11				2	32	182	86	474	53	81	17	8		NER-4
12		5m			37	173	27	237	10	20	8	16		Kona-1, Mauna Kea-1
13		2h			437	136	23	233	4	52	1	2		
14	23m				50	149	35	389	7	67	6	2		
15		20m		3	148	226	46	429	5	37	4	2		
16				1	47	94	97	486	44	77	32	14		Kona-2
17		8m			49	199	106	462	67	97	12	9		LPD-5, Kona-1
18				1	8	126	97	397	70	87	11	3	1	Mauna Kea-1, 15 km-1
19				2	1	222	88	588	62	87	17	87		NER-1, Kona-1
20					3	234	71	317	32	66	11	6		
21					6	204	86	373	45	59	10	3		LPD-7, Kona-1
22			10m[1/]		1	219	86	350	34	42	12	4		LPD-4
23				1	5	244	61	405	47	50	7	8		NER-1
24	3m			2	2	237	75	388	38	63	15	4		NER-1
25	1m				9	274	82	446	37	75	11			
26				3	2	286	88	457	56	95	9	2		
27				3	1	257	85	396	42	61	5	2		LPD-6
28						382	32	227	50	58		5		
29					2	326	32	385	66	36	1	3		
30					1	386	57	408	77	38	1	6		
31					13	290	113	525	55	22		1		Kohala-7

1/MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes										
				Kilauea Summit			Kilauea Flank				Mauna Loa		Off-shore PPL	Remarks and Events of Interest
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P		
Jun 1	5m				7	325	86	509	49	31	7	1		
2		7m1/			56	308	84	590	68	60	7	3		LPD-4, Kona-1
3				4	78	271	109	552	62	71	1	1		NER-1
4	2m	4m1/		7	91	332	105	686	76	52	3	1		Kona-1
5	22m			1	302	299	91	498	47	34	2	2		Kona-2
6				3	107	341	127	427	52	58	5	1		Kohala-1, Kona-1
7	16m			1	10	276	74	393	51	47		1		Kohala-5
8	10m				10	312	85	448	42	73	3	1		Kona-1
9	2m			1	14	326	52	579	30	78	2	1		
10	11m				79	335	56	544	78	61	2	1		Mauna Kea-1
11	5m	15m		1	98	294	28	429	18	39	7			Offshore-1, NER-8
12		8m	5m1/		44	347	23	445	14	3	5	3		NER-4
13				1	4	344	86	519	55	56	1	2		NER-2, Kona-1
14	3m				6	241	86	373	44	38	3	2		Kona-1
15					5	210	71	460	47	33	2	2		NER-1, Kohala-1
16					3	144	63	299	34	36	6	2		Kona-1
17	5m				3	207	52	319	36	43	6	5		
18	6m				6	205	53	387	42	39	22	6		Kohala-1
19					5	286	54	479	73	35	12	17		NER-1
20				1	4	352	67	423	53	34	8	6		Mauna Kea-1
21					6	142	39	3134	22	29	10	8		East Rift swarm
22					27	133	73	828	59	56	29	8		NER-5, Kona-2
23		28m1/		1	14	126	87	660	23	51	14	10		NER-2
24				1	20	163	71	382	11	53	6	8		NER-1, Kona-1
25					15	218	20	253	54	31	2	2		
26	15m					298	30	257	64	31		7		
27	4m1/			2		277	97	531	34	52	7	9		Kohala-1, Kona-1
28				4	8	231	72	440	20	32	17	2		
29	35m			1	8	263	78	432	25	34	2	5		Kona-1
30					1	245	73	396	19	44	31	3		

1/MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes										
				Kilauea Summit			Kilauea Flank				Mauna Loa			
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P	Off-shore PPL	Remarks and Events of Interest
Jul 1				3	8	228	69	380	21	59		5		
2	21m				3	268	72	364	44	45	5	2		
3					5	282	75	401	33	33		1		LPD-2
4					6	88	6	105	2	10		2		High winds
5					2	349	49	395	31	39		2		Kona-1
6					4	277	59	451	21	42				Kona-1
7				2	7	117	38	188	17	21	1			Power outage 2000-0700
8				1	24	125	46	352	19	26		2		Power outage 0100-0730, Mauna Kea-1
9						96	22	161	46	32		37		
10						150	25	315	39	38		2		Kona-1
11				4	57	140	47	613	16	56		9		
12	6m			1	17	119	40	636	28	32	1	2		KOH-1, LPD-3
13	24m				8	126	42	767	46	41	4	2		Kona-1, KOH-1, LPD-1, NER-3
14	15m[1/]			1	16	320	62	1677	26	42	3	4		NER-1, Kona-2
15					7	105	90	591	41	44	3	2		Kona-1, LPD-1, NER-1
16				2	9	106	55	534	39	49		5		Kona-4, LPD-1, NER-1
17	8m[1/]			4	34	132	51	548	41	47	4			Kona-3, LPD-1, NER-5
18				2	28	138	46	435	40	46	2	4		LPD-1, NER-4
19				2	7	167	57	497	48	29	2	3		NER-4, LPD-1, Kona-1
20				2	5	164	62	376	34	17	1	1		
21				2	2	114	41	470	30	31	2	1		LPD-2
22				3	27	160	57	478	48	26	2	1		LPD-1, NER-1
23					12	329	19	525	19	21			2	LPD-1, Kona-1
24					9	319	49	732	9	29	4	6	1	
25		7m			2	193	45	439	33	45	2	3		LPD-1
26	41m	6m			3	341	63	422	38	28	1	3		Kona-1
27	36m				9	221	59	587	23	34	9	3		LPD-4
28			3m[1/]	2	20	254	64	560	34	29	28	3		LPD-2
29				1	13	245	64	435	53	30	6	1		LPD-1, Kona-1
30				2	16	296	70	568	39	39	7	3		LPD-2, Kona-1, NER-4
31				1	14	302	51	635	51	29		3		LPD-1

1/MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes											
				Kilauea Summit			Kilauea Flank				Mauna Loa		Off-shore PPL	Remarks and Events of Interest
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P		
Aug 1					16	191	42	434	16	30	1	2		NER-1
2					7	184	55	350	26	40	19	19		Kona-2
3				1	4	144	59	282	20	33	5	11		LPD-1
4					1	176	42	302	30	19	6	28		
5	5m				5	257	59	469	38	41	13	12		Kona-1
6					28	319	18	318	74	34	1	6		
7	7m				2	264	14	290	73	41	1	7		Kona-1
8					10	214	50	468	24	41		8		
9				4	13	320	55	504	29	38	9	7		
10	7m1/				4	270	56	427	33	39	29	3		NER-1
11	2m1/ 4m				1	255	54	411	26	31	16	2		Kona-1
12					4	223	49	214	22	33		3		Kona-2
13	3m1/				3	345	22	353	6	27	13	4		NER-1, Kona-2
14			10m1/	1	6	431	20	494	6	21	12	6		Kona-1
15					10	262	33	494	30	48	3	26	3	
16				1	1	332	66	572	58	29	16	6		Kona-2, LPD-1
17	2m			1	4	267	68	584	47	98	14	7		LPD-1
18				2	2	201	61	652	44	32	4	3		NER-1, Kona-1
19					8	246	77	509	30	33	7	9		Kona-2
20	7m				5	209	55	445	37	27	3	3		Distant-2, NER-2
21	3m	3m			11	238	63	521	68	38	4	1		LPD-3, NER-2
22					6	118	33	211	27	26	1	8	5	
23	6m			1	13	108	77	295	40	41	5	2		LPD-2, NER-1
24	14m				5	65	85	301	39	28	11	1		LPD-12, Kona-1, NER-1
25				1	10	99	59	339	56	33	4	5		LPD-1, NER-3
26					13	90	97	413	46	25	10	2		Kohala-1
27					3	146	21	196	41	32	2	11		Kona-3
28			5m		4	131	21	211	42	28			1	NER-1
29					27	129	55	226	39	65	3	19	1	NER-4
30	52m			2	13	153	63	303	43	35	1	2		LPD-3
31	4m				13	167	82	322	43	44	2	3		Kona-3, LPD-1, Mauna Kea-1

1/MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquake											
				Kilauea Summit			Kilauea Flank				Mauna Loa				
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P	Off-shore PPL	Remarks and Events of Interest
Sep 1					11	117	76	359	40	27				NER-5, Mauna Kea-1, Kona-1
2				2	25	106	54	375	59	36	2	6	1	Mauna Kea-1, NER-4
3					35	125	43	300	64	84	29	15	2	
4					28	77	65	172	44	48	40	10		Kona-4, NER-1
5				2	25	83	69	258	52	45	4	5	1	NER-2, Kona-1
6	4m[1/]				9	102	63	365	43	33	4	2		LPD-6, NER-1
7				2	20	83	79	384	52	31	4	3		Mauna Kea-2
8				2	10	52	71	261	15	29	4			Kona-1, LPD-1, NER-1
9	10m			3	7	72	56	225	23	33	3	1	3	LPD-1, Kona-2
10		9m	10m[1/]		11	271	28	286	3	56	10	10	3	Kona-1
11					11	363	12	291	1	171	10	1	2	LPD-2, NER-3
12				2	21	211	76	334	35	200	5			Kohala-1
13	6m	3m		1	7	171	54	320	34	116	13			LPD-2, Kona-3
14					5	99	60	197	5	71	17	4		Mauna Kea-4
15					3	75	39	212	8	62	10	2		
16				2	17	78	80	299	26	83	6			Offshore-1, Kona-1
17				2	7	82	74	330	49	80	4	4		LPD-2, Kohala-1
18		20m		1	55	209	75	339	40	56	12	3		NER-1
19		4m	15m[1/]		16	99	72	340	38	82	29	1		
20				3	15	65	76	287	26	69	31	2		LPD-4, Kona-3
21				1	3	52	75	278	49	36	16	1		Kona-3
22	8m			2	11	79	67	352	38	41	15	1		
23		11m			27	87	76	342	40	47	16	2		NER-5, Kona-1
24	33m		2m		22	70	24	155	42	45	2	9		
25		5m			127	81	28	131	38	35	14	7		Kona-1
26		3m			53	69	68	348	29	46	5	3	1	
27					32	70		321		44	3	2		Kona-2, LPD-2, NER-1
28					25	75	75	394	26	31	1	2		NER-1
29				2	23	88	87	382	47	42		4		Kona-1
30					53	84	81	421	40	30	10			Kona-1

[1/] MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes										
				Kilauea Summit			Kilauea Flank				Mauna Loa			
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P	Off-shore PPL	Remarks and Events of Interest
Oct 1	35m	10m		2	150	110	15	293	12	39	3	9		
2		97m												
		3m[1/]			287	106	34	232	9	22	3	2		LPD-4
3				1	58	114	89	402	32	41	1	4		Kona-1, Kulani-1
4				4	49	91	88	390	38	39	1	3		Kona-2, LPD-3, NER-1
5				2	26	108	83	451	25	24	1	3		Kohala-1, LPD-1, Kona-1
6		7m			147	82	81	422	48	34	4	4		
7		16m			128	95	67	264	15	34	8			LPD-2, Kona-1
8				2	32	76	64	249	19	27	4	1		Kona-2
9	4m			3	30	106	61	301	11	29	3	2		LPD-1, NER-1
10		19m		4	91	92	37	251	11	34	4	1		Offshore-1, LPD-4
11	5m[1/]	6m		3	46	175	24	254	1	25	3	9		NER-1
12		24m		3	135	159	32	264	4	19		2	3	NER-3
13				1	36	175	31	229	3	23	3	2		NER-1
14		110m		5	102	167	19	197	10	19	2	4		Kona-1
15	8m				9	210	17	167	55	31	1	10	1	
16					187	245	26	198	70	47	3	5		
17	8m	55m			121	200	31	230	11	24	1	6	3	
18		14m			47	242	22	219	12	23	3	6		Kona-4
19					23	204	30	217	1	13	1	1	1	NER-2, Kona-2
20		74m		4	180	180	36	283	13	32	2	6		NER-1, Kona-2
21		30m			111	227	21	256	8	39	2	1		NER-2, Kohala-1
22		4m		2	35	153	40	219	11	12	7			Kona-2, LPD-9, NER-1
23					27	176	10	247	4	25	1			
24		65m		3	121	213	21	231	6	26		3	1	LPD-1, NER-1, Kona-1
25		40m		1	101	222	26	186	7	18	2	3		LPD-1
26				1	60	300	25	194	12	28	4	6		LPD-1
27				1	6	287	29	235	11	37	1	5		NER-1
28					17	385	32	274	13	52	2	9		NER-1, LPD-1, Distant-2
29					7	233	45	188	59	32	11	12		NER-1
30		136m			72	245	23	243	16	31	1	6		LPD-1, NER-1, Kona-2
31					20	276	40	267	5	22	3	3	2	LPD-3, NER-2

1/MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes											
				Kilauea Summit			Kilauea Flank				Mauna Loa		Off-shore PPL	Remarks and Events of Interest
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P		
Nov 1	9m[1/]			4	27	346	45	325	11	26	15	2		NER-1, LPD-8
2					21	285	32	307	34	32	3	2		Kona-2
3		7m		1	20	302	34	187	18	23	2	4		LPD-1, NER-2
4					20	324	26	154	8	28	2	2	2	NER-1
5				2	24	256	45	135	14	41	4	8		NER-2, Kona-2
6					3	398	33	189	11	39	2	5		NER-1, Kona-2
7				2	3	349	24	211	12	38	3	8	1	LPD-3, NER-1
8					44	374	41	224	21	36	10	10		
9		3m[1/]			21	397	17	277	11	41	2	9		Distant-1, Kona-1
10				1	20	352	23	259	19	51	23	16	1	LPD-1
11					9	321	21	208	9	27	7	4		LPD-2
12				1	1	317	15	155	50	30	1	8		Mauna Kea-1
13					2	549	23	161	42	28	2	6		
14		5m			34	350	21	260	4	27		5		Maui-1, LPD-1
15					5	322	24	303	1	30	1	5		Maui-1, NER-1
16				3	9	384	14	181	3	29		1	1	NER-1
17	26m	80m[1/]		1	23	468	15	173	5	39	45	2		LPD-2, Kona-1
18		24m		5	28	425	34	180	9	41	7	7	2	Kona-1
19				1	39	370	36	127	46	34	347	21	1	NER-1
20					32	374	30	132	31	41	306	4		NER-5
21	19m			1	62	419	19	154	4	28	223	1		NER-1
22	28m	5m		2	51	385	32	166	9	29	152	39		Kona-2, LPD-2, NER-4
23		14m[1/] 20m			92	389	33	176	43	32	67	27	1	
24		5m			22	343	22	144	10	38	36	18	1	NER-5, Kona-2, LPD-2
25	6m				28	354	21	186	10	26	17	46		NER-1, Kona-1
26					27	371	14	194	9	34	24	17		NER-4, Kona-4
27	47m				14	364	26	203	5	36	7	17		LPD-1, NER-2, Kona-1
28		7m			13	356	41	194	6	33	8	19		NER-2
29		3m[1/]			13	388	30	159	1	21	14	17		Maui-1, NER-2
30					20	379	39	283	3	27	8	12		NER-1

[1/]MOK-tremor beneath Mauna Loa Volcano

Date (1976)	Tremor (m = minutes h = hours)			Earthquakes										
				Kilauea Summit			Kilauea Flank				Mauna Loa			
	Deep	Inter-mediate	Shallow	30 KM	L-P	S-P	SW Rift and Kaoiki	Upper East Rift	Koae	Lower East Rift	L-P	S-P	Off-shore PPL	Remarks and Events of Interest
Dec 1	38m				13	406	43	274	2	45	2	9		NER-3, LPD-5, Kona-1
2				2	19	345	30	275	15	41	11	2		NER-2, Kona-1
3					3	396	28	209	35	38	1	4		
4					4	431	22	220	37	26	2	4		NER-3
5					13	332	32	273	6	53	5	4		Kona-1
6	30m			1	18	403	33	203	2	29	6	2		
7				2	23	383	30	207	7	30	3	2		Kona-1
8		5m		1	14	493	26	185	1	29	4	10		NER-2
9		5m			17	467	38	193	3	26	6	5		Kona-1, NER-1
10					12	272	44	176	15	25	2	4		LPD-4
11	23m				19	167	42	143	37	38	13	7	3	
12				2	19	333	48	245	2	17	7	10	2	
13					23	486	20	217	32	26		7		Mauna Kea-2, NER-4
14	20m			1	42	319	48	266	15	11	7	5		Kulani-2, LPD-2
15					12	501	114	474		72	13	15	2	NER-2
16					4	767	20	147	35	23		9		
17				2	4	358	64	496	10	20	5	3		LPD-7
18	31m			1	3	161	26	211	4	8	3	4		NER-2, Kulani-1
19		9m			20	303	30	146	5	57	8	21	3	
20				1	18	372	39	270	7	10	4	8		
21		7m		3	19	422	24	259	11	21	8	1	1	NER-1
22					7	338	49	232	1	11	5	17	1	
23					24	296	21	264	8	20	10	1		NER-1
24	60m[1/]	5m		3	32	318	21	258	5	24	14			Kona-1
25				1	19	311	35	330	9	20	3	1		NER-2, Kona-1
26				1	9	355	38	377	9	24	4			NER-1, Kona-2
27		3m[1/]			20	361	25	299	18	12	8	4		
28		5m[1/]		1	5	481	28	338	21	19	8	2		NER-1
29	30m	8m[1/]		1	20	296	26	355	18	21	15	2	1	LPD-7
30						519	19	168	77	4		9		
31						414	5	137	37	9	8	7		

[1/] MOK-tremor beneath Mauna Loa Volcano

CONTENTS

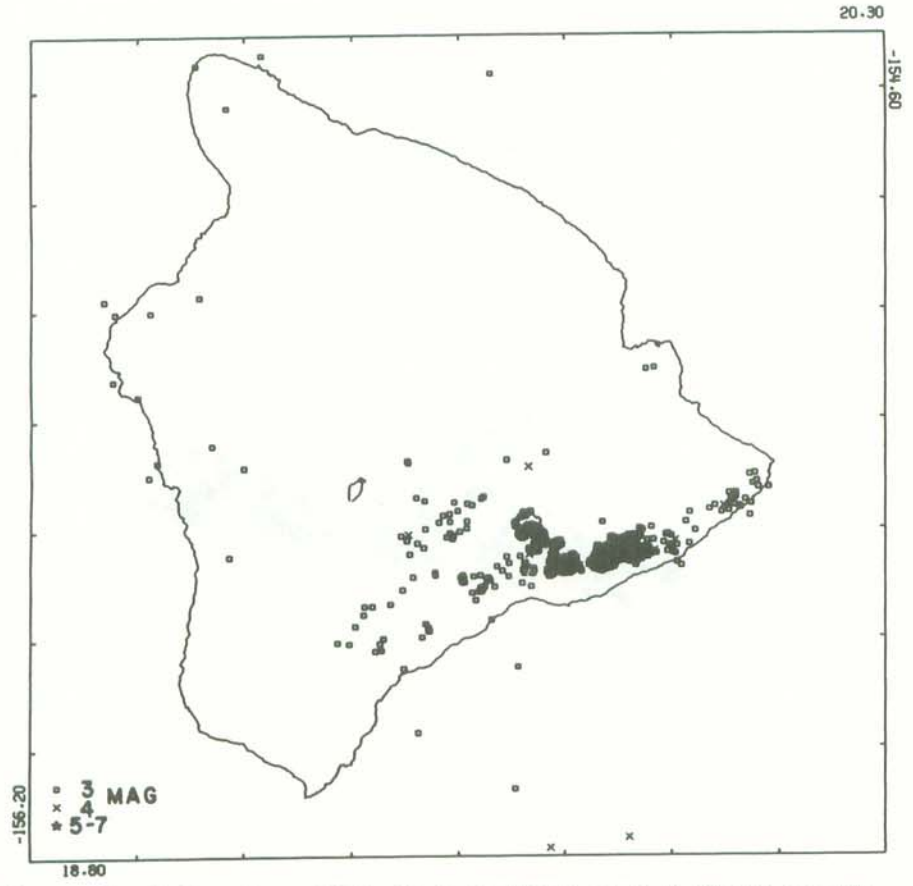

Figure 5 Epicenter plot of magnitude 3 and above earthquakes for the year 1976.

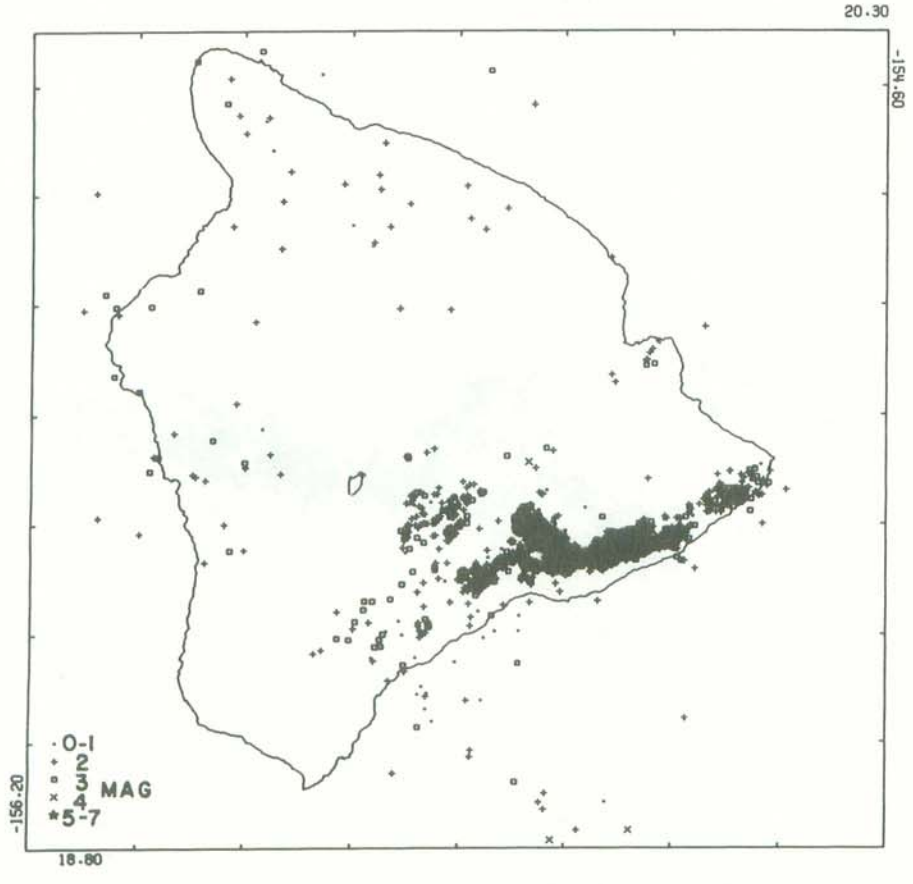

Figure 6. Epicenter plot of all events located for the year 1976.

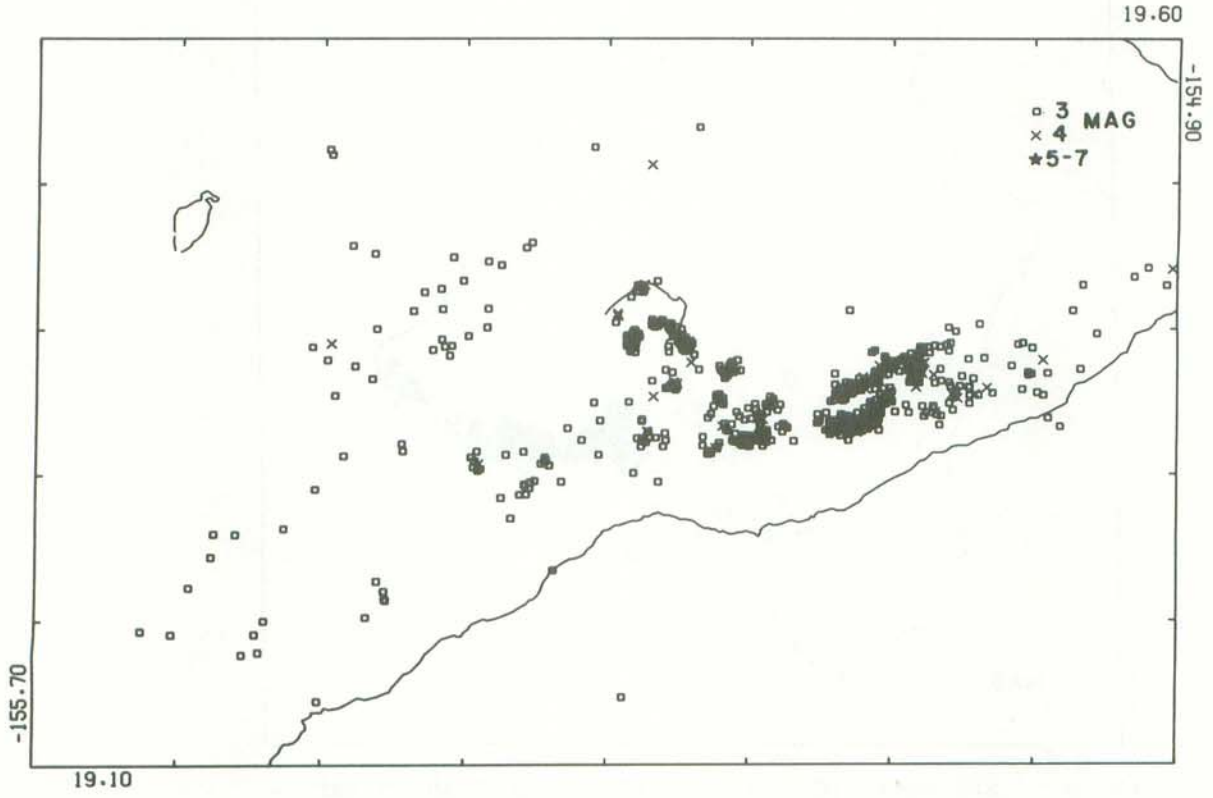

Figure 7. Epicenter plot of Mauna Loa and Kilauea earthquakes magnitude 3 and above for the year 1976.

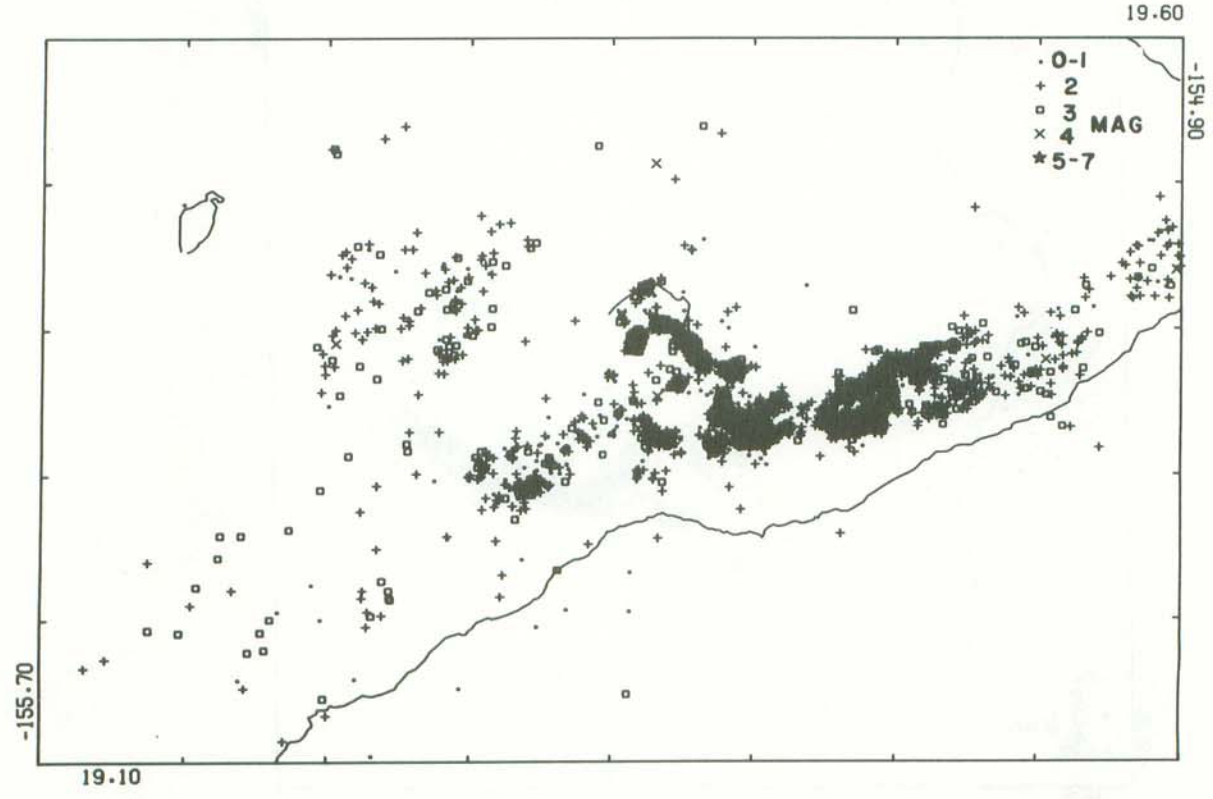

Figure 8. Epicenter plot of all Mauna Loa and Kilauea earthquakes located for the year 1976.

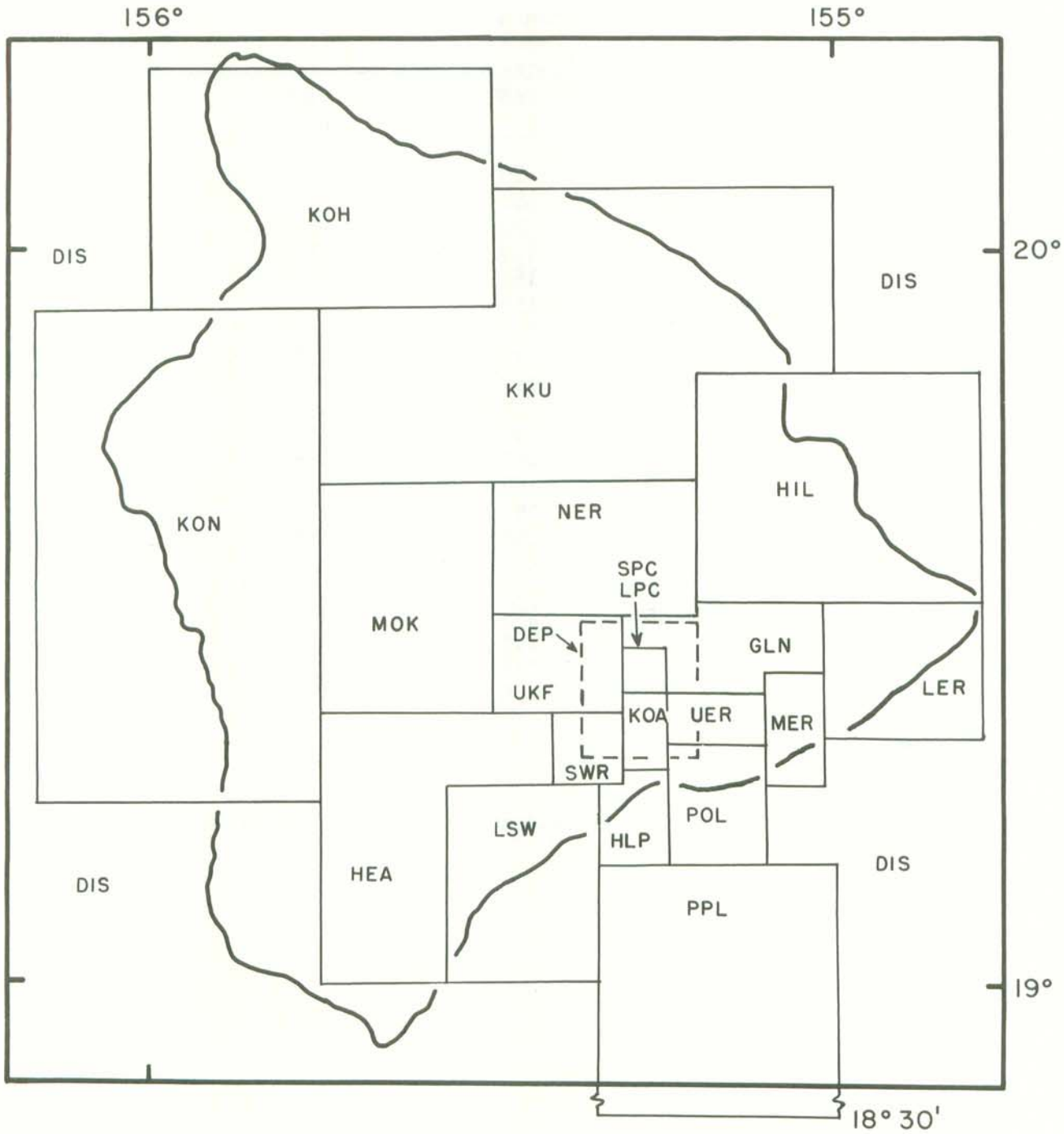

Figure 9. Map indicating limits of areas for specific mnemonic codes used in the remarks column of the earthquake summary. DEP is a code applied to earthquakes with depths greater than 13 kilometres in the Kilauea region. SPC is used for depths between 0 and 6 km, and LPC is used between 6 and 13 km.

Table 4. Coordinates of named regions.

Name	(Limits)								
	NORTH		SOUTH		EAST		WEST		DEPTHS
	D	M	D	M	D	M	D	M	0
SPC	19	27	19	23	155	15	155	19	0 - 6
LPC	19	27	19	23	155	15	155	19	6 - 13
DEP	19	29	19	18	155	22	155	22	13 - 70
UER	19	23	19	19	155	6	155	15	
KOA	19	23	19	17	155	15	155	19	
SWR	19	22	19	16	155	19	155	25	
UKF	19	29	19	22	155	19	155	30	
MER	19	25	19	16	155	1	155	6	
LER	19	31	19	20	154	47	155	1	
POL	19	19	19	10	155	6	155	15	
LSW	19	16	19	0	155	21	155	34	
PPL	19	10	18	30	155	0	155	21	
HLP	19	17	19	10	155	15	155	21	
MOK	19	40	19	22	155	30	155	45	
GLN	19	31	19	23	155	1	155	19	
KON	19	55	19	15	155	45	156	10	
HEA	19	22	19	0	155	25	155	45	
KOH	20	15	19	55	155	30	156	0	
NER	19	40	19	29	155	12	155	30	
HIL	19	50	19	31	154	47	155	12	
KKU	20	5	19	40	155	0	155	45	
DIS	EVERYPLACE ELSE								
BLS	QUARRY BLAST								

When coordinates imply an overlap, precedence is given as shown in Figure 9.

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.

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

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

ERH km - Standard error of the epicenter in km.

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

REMK - Remarks, three letter code for geographic location of event. See Figure 9 for location of mnemonic code.

Table 5 lists all events located during 1976. Table 6 lists only events of magnitude 3.5 or larger.

TABLE 5. HVO EARTHQUAKE SUMMARY LIST PAGE 1

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	REMK
1976	JAN	1	0 2	48.09	18	50.09	155	4.68	16.61	3.6	4.1	28	0	269	.10	54	3.9	29.5	PPL
		1	120	25.68	19	19.92	155	10.87	8.08	2.1	2.5	27	0	88	.15	7	.9	1.4	UER
		1	854	19.82	18	40.44	155	2.80	50.32	4.7	4.2	15	1	310	.08	78	6.0	14.1	PPL
		1	1536	47.31	19	21.71	155	15.08	9.34	3.5	3.9	30	0	60	.10	4	.4	.5	KOA
		1	2052	16.02	19	22.70	155	6.25	6.44	2.3	2.6	29	0	69	.15	8	.8	1.6	UER
		2	214	55.86	19	23.34	154	58.95	7.08	2.5	2.4	28	0	184	.13	10	1.2	.9	LER
		2	3 5	32.22	19	20.24	155	12.36	7.66	2.6	2.6	29	0	74	.13	6	.7	.9	UER
		2	311	36.82	19	22.40	155	4.31	7.06	2.3	2.5	27	0	94	.15	10	.9	1.5	MER
		2	19 8	23.79	19	20.05	155	7.69	7.11	2.9	3.4	27	0	93	.11	8	.8	1.1	UER
		2	2011	27.16	19	19.43	155	12.70	5.93	2.1	2.4	27	0	82	.14	7	.7	1.5	UER
		2	2018	21.43	19	22.31	155	7.00	5.98	2.3	2.5	30	0	68	.16	8	.9	2.0	UER
		3	137	13.34	19	20.42	155	19.29	9.13	2.5	2.7	30	0	51	.18	6	1.0	1.0	SWR
		3	537	1.25	19	17.60	155	20.78	7.87	2.1	2.6	29	0	125	.16	8	.9	1.3	SWR
		3	918	56.06	19	27.20	154	53.50	8.64	2.9	2.9	23	1	258	.11	19	2.4	.7	LER
		3	1352	3.34	19	17.38	155	22.08	6.00	1.9	2.3	23	0	133	.15	8	1.0	2.6	SWR
		3	1519	32.13	19	21.49	155	7.75	7.21	2.3	2.3	20	0	74	.12	9	.8	1.3	UER
		3	1532	22.26	19	19.75	155	19.42	6.54	1.9	2.4	25	0	61	.16	7	.9	1.8	SWR
		3	1834	25.26	19	19.67	155	13.34	6.62	2.2	2.8	28	0	68	.13	7	.7	1.0	UER
		3	2335	41.36	19	21.76	155	2.54	7.32	2.1	2.2	21	2	165	.15	13	1.5	1.1	MER
		4	157	55.96	19	27.42	154	55.81	7.82	2.3	2.3	25	1	243	.16	16	2.7	1.0	LER
		4	451	7.70	19	22.45	155	1.51	3.28	2.4	2.7	22	0	179	.17	11	1.2	1.4	MER
		4	5 8	9.16	19	19.44	155	13.14	7.79	2.0	2.5	26	0	74	.15	7	.9	1.3	UER
		4	521	39.41	19	20.31	155	8.67	7.10	1.8	2.1	25	0	73	.14	9	.9	1.7	UER
		4	557	26.71	19	24.23	155	16.18	1.64	1.3	2.1	10	0	125	.07	3	.5	.3	SPC
		4	620	50.96	19	28.56	154	52.23	9.76	2.3	2.3	22	0	263	.17	22	6.9	.6	LER
		4	727	58.90	19	22.60	155	5.06	7.23	1.9	1.7	24	0	93	.13	8	.7	1.3	MER
		4	1256	39.63	19	24.52	154	59.04	5.88	2.6	2.8	25	0	210	.17	11	2.2	1.6	LER
		4	1424	2.39	19	20.89	155	10.70	7.80	2.8	3.1	29	0	71	.12	8	.6	.9	UER
		4	2030	30.24	19	22.75	155	5.62	7.46	2.6	3.1	27	0	85	.13	8	.7	1.1	MER
		4	2342	26.70	19	19.47	155	19.40	8.60	2.3	2.8	27	0	65	.15	7	.8	1.0	SWR
		5	634	43.45	19	19.67	155	19.29	8.75	2.4	2.6	29	0	59	.15	7	.8	1.0	SWR
		5	941	30.46	19	19.74	155	12.75	3.95		1.2	17	0	76	.14	7	.8	2.3	UER
		5	1021	16.61	19	22.38	155	6.78	4.08		1.0	18	1	105	.17	8	1.0	2.6	UER
		5	1052	19.62	19	20.05	155	16.62	7.16	1.5	1.4	9	0	170	.07	5	1.3	2.6	KOA
		5	11 4	18.96	19	17.76	155	25.50	7.09	1.9	1.5	22	0	122	.18	12	1.2	3.1	HEA
		5	1111	15.10	19	20.44	155	8.78	8.25	1.8	1.6	23	0	70	.07	9	.5	.8	UER
		5	1120	6.87	19	19.54	155	20.73	5.06	1.5	1.5	19	0	125	.18	6	1.2	1.4	SWR
		5	1130	28.44	19	18.41	155	19.91	1.90		1.2	14	0	189	.19	7	2.0	99.0	SWR
		5	1138	22.91	19	27.28	155	28.33	8.72	2.0	1.3	12	0	106	.07	12	.7	2.8	UKF
		5	1243	43.97	19	24.63	155	16.41	35.83	2.5	2.9	16	1	135	.09	4	1.8	2.7	DEP
		5	1249	24.10	19	19.19	155	21.08	6.87	1.6	1.2	17	0	136	.14	7	1.2	1.7	SWR
		5	1254	47.75	19	18.17	155	21.17	7.03	1.7	1.6	18	0	117	.13	8	.9	1.7	SWR
		5	1327	22.74	19	20.08	155	16.33	8.17	2.0	2.3	26	0	87	.14	6	.8	1.1	KOA
		5	1353	40.46	19	21.39	155	10.91	7.59	1.8	1.9	25	0	64	.12	9	.7	1.0	UER
		5	1417	59.77	19	21.97	155	6.41	7.27	1.9	2.2	24	0	76	.12	7	.7	1.2	UER
		5	1421	40.27	19	19.95	155	8.44	7.31		1.1	20	0	79	.13	10	1.0	2.0	UER
		5	1439	4.26	19	18.41	155	11.89	1.17	2.2	2.3	24	1	121	.19	8	1.1	1.6	POL
		5	1451	29.28	19	14.52	155	21.79	7.76	1.9	1.4	22	0	155	.09	11	.6	1.3	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	REMK
1976	JAN	5	1530	52.83	19	18.11	155	21.27	6.01	1.7	1.4	20	0	118	.13	8	.8	2.0	SWR
		5	1625	59.31	19	17.82	155	21.31	6.99	1.7	1.1	15	0	158	.11	8	1.1	2.3	SWR
		5	1629	32.01	19	17.89	155	21.54	3.36	1.7	1.1	21	0	119	.16	8	1.0	2.2	SWR
		5	17 4	4.11	19	22.95	155	24.34	9.50	2.2	2.0	28	0	61	.11	8	.5	.7	UKF
		5	17 5	31.42	19	22.08	155	2.39	5.90	2.2	1.8	20	0	160	.16	13	1.2	2.4	MER
		5	1723	18.81	19	20.21	155	19.41	6.61		.9	11	0	108	.06	6	.6	1.5	SWR
		5	1745	45.86	19	22.02	155	6.70	6.84	1.9	2.0	21	0	78	.15	8	1.0	1.8	UER
		5	18 0	17.10	19	23.95	155	23.70	8.91	1.9	2.1	23	0	68	.11	7	.6	1.2	UKF
		5	2223	27.03	19	20.51	155	5.89	1.24	2.2	2.4	14	0	110	.21	8	1.5	55.7	MER
		5	2311	21.63	19	15.61	155	8.29	3.81	2.1	2.2	20	0	221	.13	12	2.1	1.6	POL
		5	2317	44.84	19	19.54	155	12.72	6.51	3.4	2.5	13	0	80	.17	7	1.5	3.0	UER
		6	043	37.58	19	18.71	155	23.77	5.49	3.0	3.3	28	0	103	.17	9	.8	1.1	SWR
		6	047	2.75	19	19.24	155	12.94	5.60	1.6	1.2	17	0	81	.15	8	1.0	2.9	UER
		6	054	34.51	19	12.39	155	19.91	4.23	2.0	1.4	19	0	196	.09	14	1.1	1.1	HLP
		6	1 1	3.77	19	22.48	155	5.39	7.05		1.1	18	0	110	.12	8	.9	2.2	MER
		6	153	22.51	19	20.90	155	12.63	7.76	1.6	1.4	22	0	63	.11	6	.7	1.0	UER
		6	2 9	7.38	19	22.42	155	5.78	7.15	2.1	2.2	23	0	81	.12	7	.7	1.2	MER
		6	236	57.85	19	19.53	155	15.05	8.20	1.6	.9	17	0	96	.10	6	.7	1.3	KOA
		6	242	2.58	19	19.14	155	19.86	6.54	1.6	.7	14	0	120	.09	6	.8	1.6	SWR
		6	244	35.32	19	19.81	155	16.49	8.51	2.0	2.2	26	0	92	.12	5	.7	1.0	KOA
		6	258	12.78	19	20.02	155	16.71	7.06	1.5	.8	15	0	87	.09	5	.7	1.4	KOA
		6	316	6.23	19	19.00	155	13.36	7.81		.6	10	0	136	.05	7	.8	2.1	UER
		6	323	27.33	19	20.53	155	17.78	8.11	1.5	1.2	15	0	66	.08	5	.6	1.2	KOA
		6	525	42.28	19	25.58	155	24.59	11.84		1.1	14	0	79	.06	10	.6	2.4	UKF
		6	532	17.73	19	21.84	155	6.42	7.88	1.9	1.4	22	0	78	.15	7	.9	1.7	UER
		6	626	58.37	19	20.98	155	11.18	8.38	2.1	2.0	24	0	69	.14	8	.8	1.3	UER
		6	719	44.42	19	21.31	155	19.20	1.53		.8	10	0	83	.06	6	.5	99.0	SWR
		6	724	2.05	19	20.04	155	11.33	7.44	1.8	1.8	24	0	84	.14	7	.8	1.2	UER
		6	745	8.98	19	20.54	155	9.13	8.53	1.8	1.5	22	0	69	.08	8	.5	.7	UER
		6	752	7.19	19	17.51	155	20.69	7.98	2.1	2.1	27	0	126	.18	7	1.1	1.5	SWR
		6	758	29.20	19	20.44	155	10.08	7.52	1.7	1.3	22	0	76	.14	7	.9	1.8	UER
		6	8 6	12.76	19	21.80	155	8.35	8.07	2.8	2.9	26	0	65	.10	8	.5	.9	UER
		6	958	33.64	19	19.13	155	19.05	8.67	2.6	2.8	27	0	60	.12	8	.7	.8	SWR
		6	1258	52.02	19	26.69	154	53.65	8.54	3.2	3.3	25	0	226	.13	19	1.9	.8	LER
		6	1517	45.74	19	21.54	155	6.70	8.08	2.5	3.0	25	0	81	.12	7	.7	1.1	UER
		7	016	39.36	19	18.69	155	20.66	9.64	3.7	3.7	30	0	106	.11	6	.7	.4	SWR
		7	144	33.33	19	27.20	154	53.21	7.69	3.8	3.9	28	1	238	.09	19	.9	.5	LER
		7	952	33.40	19	18.96	155	23.34	6.20	2.4	2.5	25	0	102	.15	8	.8	1.6	SWR
		7	1031	13.26	19	20.65	155	17.57	7.37	2.3	2.7	25	0	57	.14	5	.7	1.0	KOA
		7	1051	8.52	19	17.69	155	21.88	7.05	2.4	2.8	26	0	120	.17	9	1.0	1.6	SWR
		7	1135	7.85	19	22.28	155	5.70	7.89	3.1	3.2	28	0	81	.11	7	.6	1.0	MER
		8	222	53.36	19	47.65	156	2.54	7.79	3.3	3.2	23	0	234	.16	43	2.6	1.2	KON
		8	817	42.30	19	21.38	155	13.26	8.71	2.3	2.0	26	0	54	.12	6	.7	.9	UER
		8	1925	7.08	19	20.22	155	16.55	9.23	2.8	3.4	29	0	84	.09	6	.4	.5	KOA
		8	22 7	53.11	19	21.44	155	8.23	7.31	2.5	3.0	23	0	69	.12	9	.8	1.2	UER
		9	911	19.37	19	19.61	155	12.61	6.58	2.3	2.8	26	0	80	.17	7	.9	1.8	UER
		9	2140	45.84	19	19.81	155	12.91	6.51	1.9	3.0	25	0	73	.19	7	1.1	2.1	UER
		10	139	.58	19	21.97	155	2.54	7.12	2.9	3.3	28	0	138	.13	13	.9	.9	MER

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	REMK
1976	JAN	10	4 7	4.26	19	20.74	155	6.60	8.98	3.0	3.3	27	0	97	.09	7	.6	.7	UER
		10	510	25.42	19	21.19	155	13.38	7.42	2.6	3.2	29	0	55	.15	6	.8	1.2	UER
		10	1029	7.83	19	20.24	155	18.33	29.43	2.9	3.0	32	0	62	.10	6	.8	1.4	DEP
		10	11 8	15.74	19	23.44	155	.46	6.61	2.6	3.0	25	0	163	.14	9	.9	1.3	LER
		10	1534	51.74	19	24.06	155	24.14	10.75	2.5	2.7	24	0	64	.06	8	.4	.2	UKF
		10	1652	22.99	19	20.72	155	6.85	7.08	2.5	2.8	25	0	95	.11	7	.7	1.2	UER
		10	2051	50.55	19	22.04	155	8.34	8.57	2.4	2.8	27	0	64	.14	9	.9	1.2	UER
		11	133	6.65	19	20.32	155	16.78	8.96	2.6	2.8	28	0	80	.09	5	.5	.6	KOA
		11	734	5.42	19	18.92	155	20.02	9.04	2.1	2.6	28	0	92	.12	6	.6	.8	SWR
		11	1226	9.77	20	1.20	155	36.98	17.99	2.7	2.7	25	5	172	.18	44	1.4	7.7	KOH
		11	14 5	40.17	19	30.77	155	16.17	24.49	4.2	4.2	32	0	61	.11	13	.7	1.8	GLN
		12	348	32.91	19	21.90	155	6.67	9.31	3.0	3.2	28	0	76	.11	8	.7	.8	UER
		12	829	10.09	19	20.43	155	13.19	5.95	2.0	2.1	15	0	166	.11	7	1.0	2.1	UER
		12	855	17.11	19	19.55	155	15.23	7.34		1.2	20	0	97	.10	6	.7	1.2	KOA
		12	925	33.36	19	21.18	155	6.00	7.76	1.9	2.0	25	0	92	.13	7	.8	1.4	UER
		12	938	5.95	19	24.21	155	15.97	1.51	1.7	1.6	17	0	124	.13	3	.6	.3	SPC
		12	938	48.69	19	19.17	155	7.38	6.33	1.9	1.1	19	0	116	.12	8	.9	1.8	UER
		12	949	20.79	19	20.73	155	11.01	8.64	1.7	1.3	18	0	80	.09	8	.7	1.4	UER
		12	951	31.95	19	24.13	155	15.93	1.57	1.6	1.7	12	0	121	.07	3	.4	.2	SPC
		12	1045	1.26	19	24.06	155	15.92	1.57	1.8	2.2	15	0	113	.11	3	.5	.4	SPC
		12	1113	38.78	19	21.03	155	13.43	9.30	2.7	2.9	29	0	55	.13	7	.7	.8	UER
		12	1133	11.32	19	19.87	155	16.08	7.55	1.7	1.7	23	0	88	.15	6	.9	1.3	KOA
		12	1241	26.15	19	21.12	155	7.89	7.64		1.6	20	0	81	.09	9	.8	1.2	UER
		12	1329	56.19	19	22.00	155	14.76	8.78	2.0	2.2	27	0	60	.16	4	.9	1.2	UER
		12	1344	56.35	19	19.59	155	12.47	6.16	2.4	2.9	29	0	83	.14	6	.8	1.3	UER
		12	1416	43.09	19	19.70	155	12.62	5.03		.9	18	0	79	.12	8	.7	1.3	UER
		12	1442	51.60	19	20.10	155	8.54	8.13		1.2	19	0	89	.09	9	.8	1.1	UER
		12	1734	57.69	19	19.59	155	20.84	6.86	1.7	2.0	21	0	112	.12	6	.7	1.4	SWR
		12	1737	34.49	19	19.64	155	16.30	6.86		1.0	16	0	98	.09	5	.6	1.3	KOA
		12	1746	24.82	19	20.46	155	13.11	7.40		1.3	21	0	63	.13	6	.9	1.6	UER
		12	1755	32.61	19	21.63	155	6.21	9.23	2.4	2.3	25	0	82	.11	7	.7	.9	UER
		12	1840	8.08	19	21.52	155	6.77	7.07	1.9	1.9	23	0	81	.12	7	.8	1.6	UER
		12	1950	16.70	19	27.96	154	55.00	4.21	2.5	2.1	26	0	165	.17	16	1.9	1.1	LER
		12	2013	14.70	19	19.21	155	12.12	7.15	2.6	2.7	27	0	95	.14	7	.8	1.2	UER
		12	2017	12.11	19	20.61	155	12.26	6.72		1.1	24	0	79	.13	7	.8	1.3	UER
		12	2027	14.98	19	19.78	155	12.43	6.65	1.6	1.4	22	0	80	.15	6	.9	2.0	UER
		12	2043	54.80	19	20.78	155	13.66	6.90		.9	18	0	62	.11	7	.8	1.5	UER
		12	21 7	.19	19	19.07	155	12.36	3.76		1.1	21	0	95	.15	7	.8	2.0	UER
		12	2138	32.63	19	20.29	155	17.35	6.82	1.5	1.7	22	0	62	.12	5	.7	1.1	KOA
		12	2339	12.12	19	21.37	155	13.77	8.24		.9	18	0	73	.09	6	.7	1.0	UER
		12	2356	20.82	19	21.01	155	6.91	8.96	3.2	3.2	29	0	89	.11	7	.7	.6	UER
		13	022	31.91	19	19.50	155	12.44	6.05	2.0	2.1	26	0	85	.16	7	.9	1.8	UER
		13	029	56.12	19	24.91	154	57.66	7.79	2.2	1.9	23	0	180	.16	12	1.8	1.2	LER
		13	046	20.82	19	19.97	155	11.96	6.82	2.1	2.1	27	0	81	.15	6	.9	1.3	UER
		13	233	18.22	19	17.48	155	21.72	3.61	1.3	1.3	21	0	123	.15	9	1.0	2.2	SWR
		13	256	43.88	19	19.92	155	14.24	7.22		1.3	24	0	65	.12	6	.7	1.1	UER
		13	344	.09	19	20.51	155	8.55	8.71	2.3	2.2	25	0	73	.10	10	.7	.9	UER
		13	350	23.70	19	20.74	155	7.14	5.86		1.2	23	0	91	.16	8	1.1	2.9	UER

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	REMK
1976	JAN	13	439	6.71	19	21.31	155	8.43	6.97		1.4	23	0	68	.14	9	.9	2.0	UER
		13	459	26.05	19	17.79	155	22.49	6.23		1.3	21	0	116	.14	8	.9	2.3	SWR
		13	516	41.93	19	21.32	155	11.19	8.81		1.1	21	0	90	.10	8	.7	1.2	UER
		13	534	23.25	19	19.88	155	7.06	8.35	1.9	1.2	21	0	153	.24	12	1.6	1.9	UER
		13	542	.26	19	20.15	155	6.91	5.66		.8	20	0	106	.12	7	.9	2.0	UER
		13	6 8	25.24	19	19.47	155	13.88	7.46	2.1	1.6	24	0	62	.14	6	.8	1.5	UER
		13	617	54.90	19	18.97	155	13.63	5.54	1.6	1.3	22	0	69	.12	7	.6	1.7	POL
		13	638	8.13	19	23.66	154	59.36	4.41		1.2	21	0	175	.15	9	1.4	1.3	LER
		13	659	19.41	19	28.12	154	54.60	4.02		1.3	21	0	168	.18	16	2.2	1.7	LER
		13	7 7	3.08	19	19.76	155	12.21	6.39	1.7	1.1	18	0	83	.14	6	.9	2.3	UER
		13	722	38.73	19	17.71	155	21.51	5.61		.9	19	0	121	.18	8	1.3	3.1	SWR
		13	745	54.53	19	19.72	155	12.37	5.98	1.8	1.5	25	0	82	.16	6	.9	1.8	UER
		13	847	23.20	19	20.26	155	13.91	8.24		1.3	15	0	70	.08	6	.6	1.4	UER
		13	921	23.76	19	23.12	155	4.90	7.28		1.9	19	0	97	.19	9	1.4	3.5	MER
		13	943	28.27	19	19.28	155	20.30	5.34	.7	1.2	12	0	158	.04	6	.4	.6	SWR
		13	955	34.85	19	20.40	155	17.73	7.29	1.8	2.4	22	0	65	.10	5	.6	1.1	KOA
		13	1023	26.17	19	21.57	155	10.79	7.61	2.1	2.5	23	0	85	.12	8	.8	1.1	UER
		13	1038	18.30	19	20.24	155	7.21	2.60	1.0	1.2	14	0	99	.14	8	1.0	16.3	UER
		13	1046	45.80	19	19.98	155	17.77	7.34	.6	1.1	8	0	130	.06	6	1.0	2.6	KOA
		13	1118	46.07	19	21.34	154	59.75	3.76	1.4	1.8	14	2	206	.18	12	1.8	2.5	LER
		13	1137	56.28	19	19.12	155	13.68	6.94		1.6	18	0	82	.12	7	.9	2.0	UER
		13	1139	57.47	19	19.06	155	11.50	8.37	1.2	1.0	11	0	144	.02	7	.3	.6	UER
		13	1143	46.43	19	20.34	155	16.70	7.33		1.6	14	0	80	.06	6	.5	1.0	KOA
		13	1213	35.54	19	21.17	155	8.13	7.45	2.1	2.6	19	0	75	.12	9	.9	2.1	UER
		13	1248	57.81	19	20.68	155	2.94	6.82	2.1	2.8	18	0	131	.09	11	1.0	1.2	MER
		13	1340	57.79	19	21.35	155	7.82	9.34		2.3	16	0	107	.08	9	.8	1.8	UER
		13	1412	34.18	19	17.04	155	21.97	3.41	1.1	1.7	20	2	126	.20	8	1.2	3.7	SWR
		13	1423	19.98	19	21.60	155	2.62	5.94		1.0	9	1	157	.14	12	1.8	3.8	MER
		13	1443	51.46	19	19.52	155	8.05	8.53		1.9	17	0	92	.07	9	.6	1.5	UER
		13	1531	34.65	19	20.82	155	11.08	6.79	1.1	1.5	14	0	72	.14	8	1.0	2.1	UER
		13	16 1	35.23	19	22.29	155	6.54	6.56	2.2	2.9	22	0	71	.15	8	1.0	1.7	UER
		13	16 4	19.69	19	22.30	155	5.23	7.08		2.1	16	0	88	.13	8	1.0	2.8	MER
		13	1616	33.99	19	20.03	155	7.07	9.13	2.4	3.0	28	0	105	.11	7	.7	.7	UER
		13	1621	32.48	19	20.41	155	8.92	6.90		1.6	14	0	116	.12	8	1.1	2.7	UER
		13	1658	40.29	19	20.67	155	9.68	7.48		1.4	14	0	71	.11	7	1.0	2.2	UER
		13	1659	26.34	19	21.47	155	2.99	7.16		1.1	8	0	144	.03	12	.6	1.1	MER
		13	17 8	36.59	19	24.83	154	59.12	10.25		1.1	8	0	163	.32	11	9.1	2.4	LER
		13	17 9	54.34	19	20.68	155	9.91	8.64	1.4	2.3	16	0	72	.08	7	.6	1.4	UER
		13	1720	24.39	19	18.96	155	16.32	7.53	.8	1.1	12	2	120	.05	6	.5	.9	KOA
		13	1728	36.76	19	21.26	155	13.95	10.03	1.0	1.1	14	0	60	.04	6	.5	1.4	UER
		13	1747	56.18	19	20.41	155	9.04	8.74		1.9	16	0	70	.08	8	.7	1.5	UER
		13	1756	25.20	19	20.35	155	20.69	2.81		1.6	7	2	126	.11	6	.8	6.9	SWR
		13	1816	43.54	19	21.57	155	8.28	6.64		2.2	18	0	77	.13	9	.9	2.2	UER
		13	1819	11.66	19	26.49	155	24.15	7.91	1.2	1.1	13	0	94	.09	10	.9	3.0	UKF
		13	1824	9.61	19	17.58	155	20.61	5.52		1.3	7	2	237	.04	7	1.7	.7	SWR
		13	1843	54.02	19	22.38	155	5.04	6.42	1.1	1.4	19	0	92	.15	8	1.1	3.0	MER
		13	1850	27.59	19	19.71	155	18.04	5.51	.6	1.1	11	0	78	.05	6	.5	.8	KOA
		13	19 3	50.39	19	19.82	155	17.89	5.13		1.3	15	0	77	.09	6	.6	.9	KOA

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	REMK
1976	JAN	13	19 5	4.99	19	19.63	155	17.89	5.68	.7	1.2	11	0	131	.07	6	.7	1.3	KOA
		13	19 5	51.95	19	19.58	155	17.91	5.28	.7	1.3	11	0	82	.05	6	.5	.5	KOA
		13	1916	25.61	19	19.64	155	17.90	5.70	.7	1.6	12	0	80	.09	6	.8	1.4	KOA
		13	1925	51.27	19	20.79	155	13.50	7.29	1.4	1.8	16	0	60	.11	7	.8	1.6	UER
		13	1937	46.02	19	19.63	155	18.10	4.85		1.7	11	0	80	.04	6	.4	.8	KOA
		13	1953	6.27	19	24.75	155	16.62	13.29		1.1	21	0	91	.09	4	.7	1.0	DEP
		13	20 9	52.18	19	23.67	155	24.86	6.70	1.8	2.1	18	0	76	.09	9	.6	1.8	UKF
		13	2021	41.02	19	20.13	155	7.06	2.64		1.4	14	0	104	.12	7	.9	4.2	UER
		13	2026	40.00	19	24.03	154	49.89	5.72	2.4	2.0	21	1	283	.20	24	2.5	2.6	LER
		13	2027	43.11	19	26.29	155	23.23	4.00	1.1	1.3	11	2	131	.14	10	.7	3.3	UKF
		13	2046	33.27	19	23.57	155	25.32	7.29	1.3	1.5	14	0	133	.09	10	.9	2.0	UKF
		13	2113	55.98	19	21.91	155	5.20	7.99	1.8	2.2	21	0	86	.18	8	1.3	1.8	MER
		13	2126	44.80	19	20.89	155	8.44	7.22		2.0	17	0	72	.09	9	.7	1.7	UER
		13	22 5	3.17	19	21.65	155	5.70	.48		1.0	7	0	98	.07	7	1.0	99.0	MER
		13	22 9	25.35	19	19.21	155	12.18	7.36		1.3	15	0	94	.15	7	1.4	2.8	UER
		13	2230	19.30	19	20.37	155	17.65	7.39	.8	1.1	16	0	67	.13	5	1.0	1.9	KOA
		13	2243	35.00	19	20.88	155	9.02	7.47	.6	1.3	8	0	100	.05	8	.7	1.4	UER
		13	23 1	54.03	19	20.52	155	6.75	6.76	1.0	1.5	13	0	169	.16	9	1.8	4.2	UER
		13	23 2	57.90	19	19.85	155	16.29	6.29		1.2	17	0	93	.13	5	1.0	1.9	KOA
		13	23 5	28.72	19	20.14	155	10.65	6.88	1.1	1.2	16	0	166	.11	8	1.2	1.9	UER
		13	2318	9.76	19	21.67	155	6.83	7.04		1.3	18	0	78	.16	8	1.2	2.2	UER
		13	2320	27.73	19	20.79	155	10.90	7.71		1.1	17	0	82	.11	8	.8	1.6	UER
		13	2346	8.94	19	19.07	155	22.54	6.57		1.2	14	0	129	.15	9	1.5	2.7	SWR
		14	012	39.23	19	21.27	155	.77	5.86	1.3	1.3	19	0	218	.23	13	3.3	2.4	LER
		14	1 4	.00	19	19.80	155	11.59	6.74		2.3	23	0	87	.12	6	.7	1.6	UER
		14	2 9	22.85	19	18.39	155	11.43	5.57	1.1	1.0	15	0	127	.14	7	1.2	3.6	POL
		14	213	48.59	19	21.70	155	15.16	7.30		1.2	16	0	60	.11	4	.8	1.4	KOA
		14	235	46.78	19	20.19	155	7.68	7.20	2.2	2.6	25	0	91	.10	8	.6	1.0	UER
		14	248	37.61	19	21.73	155	8.39	8.71	2.5	3.1	29	0	65	.13	8	.7	.9	UER
		14	346	18.39	19	20.80	155	10.69	7.01		1.1	18	0	72	.13	8	1.0	1.9	UER
		14	4 8	56.19	19	22.03	155	1.09	6.33		1.5	20	0	173	.17	12	1.5	2.3	MER
		14	414	58.41	19	19.83	155	12.56	4.21		1.2	19	0	78	.17	6	1.0	1.7	UER
		14	427	6.56	19	18.76	155	12.16	8.00		1.0	6	0	125	.02	7	.7	2.0	POL
		14	434	15.09	19	17.89	155	23.46	5.18		1.4	16	0	149	.11	8	.8	1.0	SWR
		14	450	36.79	19	22.19	155	2.63	4.09		1.1	12	0	152	.11	13	1.0	1.7	MER
		14	452	14.09	19	27.05	155	23.54	9.62		1.6	17	0	93	.10	11	1.0	3.9	UKF
		14	544	41.32	19	21.81	155	15.43	8.33		2.0	23	0	59	.15	4	.9	1.5	KOA
		14	545	43.30	19	21.06	155	7.49	7.00	1.0	1.0	12	0	82	.16	8	1.5	3.9	UER
		14	552	5.89	19	26.39	155	27.18	8.45	1.1	1.1	11	0	118	.14	13	1.9	5.2	UKF
		14	556	19.84	19	20.16	155	7.18	7.84		1.6	19	0	101	.10	7	.7	1.0	UER
		14	557	15.92	19	19.99	155	12.71	4.55		2.1	21	0	73	.17	6	1.0	1.5	UER
		14	622	29.79	19	21.98	155	8.40	10.24	1.1	1.2	16	0	79	.08	9	.7	2.6	UER
		14	625	43.46	19	21.37	155	6.37	6.74		1.4	19	0	86	.14	7	1.0	2.0	UER
		14	629	57.79	19	21.21	155	12.16	8.64		1.0	14	0	65	.14	7	1.3	2.5	UER
		14	645	9.74	19	21.10	155	8.26	7.45		1.5	17	0	82	.12	9	1.1	2.2	UER
		14	710	50.60	19	18.07	155	20.58	5.69		1.1	13	0	205	.11	7	1.3	2.4	SWR
		14	713	54.91	19	18.55	155	16.67	6.45		1.6	22	0	113	.16	6	1.0	1.9	KOA
		14	722	26.97	19	19.90	155	12.47	5.90		2.0	23	0	77	.15	6	.9	2.2	UER

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	REMK
1976	JAN	14	729	16.68	19	21.77	155	2.87	5.00		1.2	13	0	147	.14	12	1.5	1.5	MER
		14	729	42.23	19	21.48	155	7.07	4.96		1.0	8	0	106	.08	8	1.1	2.3	UER
		14	746	12.78	19	26.17	155	29.54	8.83	1.1	1.0	11	0	137	.07	13	1.1	3.1	UKF
		14	750	2.06	19	20.91	155	17.91	6.29	2.1	2.7	18	0	44	.13	5	.8	1.8	KOA
		14	8 3	27.61	19	22.22	155	6.52	8.95	3.2	3.3	29	0	71	.11	8	.6	.7	UER
		14	846	42.25	19	20.12	155	6.61	7.68	2.1	2.6	28	0	111	.12	7	.6	1.0	UER
		14	1034	27.90	19	17.18	155	21.45	7.27	2.6	3.1	28	0	127	.18	9	1.0	1.7	SWR
		14	12 9	51.84	19	22.15	155	6.54	7.35	2.3	3.0	25	0	72	.12	8	.7	1.4	UER
		14	16 9	14.54	19	17.93	155	21.26	6.78	2.4	2.6	24	0	120	.13	8	.8	1.4	SWR
		14	2043	14.29	19	22.90	155	4.21	7.22	2.0	2.6	25	0	98	.10	10	.5	.9	MER
		15	721	47.45	19	20.16	155	7.80	7.78	2.2	2.5	24	0	90	.12	9	.7	1.3	UER
		15	934	47.09	19	20.12	155	9.08	9.10	2.2	2.8	29	0	75	.11	8	.6	.5	UER
		15	1038	23.91	19	20.19	155	8.61	8.17	2.3	2.9	29	0	74	.08	9	.4	.5	UER
		15	1241	45.31	19	24.55	155	17.59	14.21	4.4	4.5	35	0	46	.09	4	.5	.8	DEP
		15	1259	26.09	19	24.65	155	17.60	16.07	4.5	4.7	34	0	46	.10	4	.6	1.0	DEP
		15	1357	51.81	19	23.20	155	3.64	7.69	2.5	2.9	29	0	109	.13	11	.8	.9	MER
		15	22 7	45.62	19	22.64	155	6.49	7.66	2.4	2.8	27	0	66	.11	8	.6	.9	UER
		15	2212	49.26	19	22.27	155	.08	5.60	2.5	2.7	28	0	185	.12	11	.9	1.2	LER
		15	2217	43.92	19	22.23	155	.24	5.65	2.5	3.1	27	0	183	.12	11	1.1	.9	LER
		15	2350	33.50	19	23.24	155	.08	6.85	2.4	3.1	27	0	171	.15	9	1.2	1.1	LER
		16	1428	39.50	19	28.36	155	22.35	7.93	2.9	2.8	28	0	99	.14	11	.7	1.4	UKF
		16	1929	13.84	19	22.49	155	6.53	8.43	3.7	4.0	29	0	68	.09	8	.7	.6	UER
		16	20 0	3.85	19	21.29	154	59.61	2.18	3.2	3.8	25	0	206	.12	12	1.2	1.5	LER
		16	2337	1.23	19	21.63	155	15.10	8.34	2.5	2.9	30	0	61	.14	4	.8	.9	KOA
		17	1520	5.29	19	24.22	155	17.48	14.69	2.8	2.9	32	0	39	.09	4	.5	.9	DEP
		17	1613	28.37	19	19.85	155	11.47	7.45	2.3	2.8	27	0	87	.13	6	.7	1.2	UER
		17	2041	39.33	19	27.23	154	49.95	9.40	2.6	2.5	23	0	276	.14	25	4.4	.8	LER
		18	236	51.83	19	26.41	154	52.47	8.24	2.9	3.0	28	0	256	.12	21	2.2	.7	LER
		18	449	28.37	19	21.73	155	15.30	9.70	3.6	3.8	31	0	60	.09	4	.5	.3	KOA
		18	538	56.91	19	26.75	154	51.17	8.53	2.8	3.1	27	0	271	.14	23	3.4	.9	LER
		18	817	52.38	19	20.21	155	6.80	8.06	1.9	2.7	24	0	106	.12	7	.8	1.3	UER
		18	1137	26.46	19	22.20	154	59.44	1.73	2.4	3.1	25	0	195	.18	10	1.8	13.9	LER
		18	1319	21.23	19	22.92	155	5.79	7.23	2.7	2.8	30	0	75	.14	8	.8	1.2	MER
		18	1343	47.09	19	21.73	154	59.42	.07		2.4	11	0	203	.07	11	1.1	14.3	LER
		18	14 5	10.92	19	21.77	155	7.01	9.35	3.6	4.0	30	0	76	.10	8	.6	.5	UER
		18	1413	37.89	19	21.65	155	7.62	7.03	3.6	3.7	31	0	73	.09	8	.5	.7	UER
		18	1520	31.05	19	20.43	155	3.91	6.40	2.6	3.0	28	0	112	.15	9	1.1	1.0	MER
		18	1528	51.19	20	2.61	155	42.98	6.67	2.8	2.8	26	0	149	.16	41	1.0	1.2	KOH
		18	2357	46.47	19	22.56	155	5.92	7.94	3.6	3.5	32	0	71	.10	7	.5	.7	MER
		19	0 2	16.64	19	23.13	155	7.26	6.97	1 9	2.7	27	0	62	.17	10	1.0	2.0	GLN
		19	10 6	25.49	19	24.05	155	15.85	1.44	1.9	2.7	13	0	117	.13	3	.6	.4	SPC
		19	1853	37.22	19	18.97	155	22.23	7.15	1.7	2.5	23	0	103	.17	9	1.3	2.0	SWR
		19	2320	54.07	19	24.69	155	13.10	8.17	2.0	2.7	25	0	59	.09	6	.5	.9	GLN
		20	355	50.91	19	22.05	155	4.18	6.27	1.9	2.7	26	0	95	.12	10	.6	1.1	MER
		20	1113	53.89	19	22.56	155	13.81	.50	1.2	2.6	9	0	98	.06	4	.4	.4	UER
		20	15 0	32.72	19	21.82	155	3.57	7.31	2.5	3.0	27	0	108	.13	11	1.0	1.0	MER
		21	013	18.76	19	29.53	154	51.47	8.09	2.4	2.4	24	2	266	.17	22	2.1	1.0	LER
		21	522	17.72	19	21.92	155	6.70	7.89	3.0	3.2	28	0	75	.10	8	.5	.9	UER

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	REMK
1976	JAN	21	1141	21.24	19	22.02	155	7.21	8.48	4.1	4.2	24	0	178	.12	10	1.3	.9	UER
		21	1529	12.82	19	19.96	155	8.43	9.12	2.6	3.0	30	0	79	.12	10	.8	.5	UER
		21	2155	8.76	19	27.53	154	51.84	8.06	2.4	2.8	20	0	269	.14	21	3.2	.8	LER
		21	2225	24.22	19	23.91	155	3.29	8.20	2.5	3.0	25	0	125	.10	11	.8	.7	MER
		22	348	48.29	19	21.78	155	7.25	7.27	2.1	3.0	26	0	74	.11	8	.5	.9	UER
		22	412	3.95	19	20.09	155	8.49	8.50	2.8	3.4	28	0	77	.09	9	.5	.7	UER
		22	737	4.20	19	22.60	155	1.15	6.77	2.3	2.8	23	0	162	.14	11	1.2	1.0	MER
		22	1332	4.59	19	24.32	155	17.42	14.89	2.4	2.7	32	0	40	.09	4	.5	.9	DEP
		22	2016	24.70	19	19.87	155	8.64	8.31	2.3	3.0	29	0	76	.09	9	.5	.7	UER
		23	145	47.84	19	18.54	155	23.63	4.57	2.2	3.0	23	0	105	.13	9	.7	1.2	SWR
		23	247	40.05	19	21.63	155	4.98	8.96	3.7	4.0	31	0	82	.13	9	.8	.6	MER
		23	5 2	52.40	19	19.57	155	9.99	8.17	1.8	2.8	29	0	93	.12	8	.7	1.2	UER
		23	659	12.14	19	19.33	155	11.82	8.54	2.0	2.7	21	0	96	.14	6	1.0	1.9	UER
		23	739	20.97	19	20.69	155	17.62	9.06	1.9	2.8	27	0	39	.14	5	.7	.5	KOA
		23	752	20.09	19	19.46	155	13.97	7.02	2.1	2.8	21	0	64	.13	6	.8	1.8	UER
		23	820	14.11	19	21.82	155	7.92	8.91	3.2	3.5	26	0	79	.10	8	.6	.7	UER
		23	1017	15.49	19	19.73	155	11.58	9.90	2.7	3.3	29	0	89	.14	6	.9	.4	UER
		23	2059	15.03	19	18.30	155	20.61	7.71	1.7	2.7	29	0	117	.15	7	.8	1.3	SWR
		24	052	27.98	19	19.93	155	10.39	2.33	2.0	3.0	18	0	124	.20	7	1.2	3.5	UER
		24	1 2	47.29	19	23.07	155	4.19	8.47	2.4	2.9	29	0	99	.10	10	.6	.7	MER
		24	251	7.39	19	20.31	155	7.31	7.69	1.9	2.7	29	0	96	.13	8	.8	.7	UER
		24	847	47.24	19	18.79	155	23.30	5.24	1.9	2.6	24	0	104	.14	8	.7	1.0	SWR
		24	1347	14.73	19	19.42	155	7.82	.48	2.4	3.1	23	0	99	.14	9	.9	6.1	UER
		24	1455	43.66	19	26.10	155	15.93	.47	1.9	2.5	19	2	107	.13	3	.5	.2	SPC
		24	1643	26.73	19	20.42	155	16.65	8.84	1.9	2.6	22	0	79	.09	5	.5	1.0	KOA
		25	016	42.31	19	19.50	155	12.69	6.23	2.0	2.5	25	0	81	.16	7	.9	1.8	UER
		25	126	15.87	19	18.91	155	7.73	5.04	1.9	2.5	15	0	110	.14	9	1.2	2.0	POL
		25	212	10.73	19	21.45	155	3.37	6.38	2.0	2.7	21	0	128	.14	11	1.1	1.9	MER
		25	413	16.98	18	54.26	155	14.22	9.86	2.9	2.8	22	0	257	.12	44	4.5	.7	PPL
		25	1851	48.54	19	23.90	155	15.30	1.62	2.2	2.7	18	0	96	.11	3	.5	.3	SPC
		25	1933	31.12	19	20.88	155	5.40	6.77	2.5	3.2	27	0	102	.14	8	.8	1.0	MER
		26	956	9.68	19	19.50	155	16.73	8.05	2.7	3.0	26	0	98	.13	6	.7	1.1	KOA
		26	1055	58.65	19	25.79	154	54.45	8.49	3.0	3.4	27	0	216	.16	17	2.3	1.1	LER
		26	1119	27.86	19	20.09	155	7.83	8.03	2.5	2.9	25	0	90	.14	9	.9	1.3	UER
		26	1123	6.89	19	47.51	155	30.71	31.84	2.9	2.6	31	1	95	.14	21	1.1	2.7	KKU
		26	13 0	4.04	19	27.33	154	53.15	8.59	2.4	2.6	26	0	240	.17	19	2.8	.9	LER
		26	1622	3.95	19	25.35	154	55.72	7.29	2.1	2.7	26	0	200	.17	15	2.2	1.4	LER
		27	0 2	57.51	19	19.58	155	12.24	6.95	2.1	2.8	30	0	86	.15	6	.8	1.2	UER
		27	131	18.79	19	20.12	155	7.68	1.31	1.8	2.5	20	1	148	.13	10	.9	1.7	UER
		27	535	51.38	19	21.20	155	6.17	8.69	3.6	3.8	31	0	91	.11	7	.7	.5	UER
		27	610	27.17	19	21.01	155	13.36	8.95	2.5	2.7	29	0	56	.12	6	.6	.7	UER
		27	1134	4.58	19	20.57	155	5.28	6.64	2.9	3.3	31	0	112	.13	8	.7	.9	MER
		27	2047	58.40	19	32.02	155	13.39	11.27	2.1	2.5	28	0	65	.12	17	.7	.3	NER
		27	2226	28.16	19	20.28	155	6.64	9.25	4.0	4.1	31	0	107	.10	7	.7	.5	UER
		28	330	37.81	18	53.24	155	14.88	9.15	2.6	2.6	21	0	260	.08	45	2.4	.6	PPL
		28	348	15.92	19	20.12	155	7.44	8.47	1.9	2.8	24	0	97	.11	8	.6	.9	UER
		28	641	27.79	19	19.02	155	20.04	9.30	2.2	2.8	25	0	90	.14	6	.8	1.1	SWR
		28	956	41.57	19	22.97	155	6.34	6.24	2.5	2.9	29	0	69	.16	8	.8	1.4	UER

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	REMK
1976	JAN	28	1620	18.59	19	20.49	155	6.90	9.29	2.8	2.7	29	0	99	.12	7	.8	.7	UER
		28	1845	25.87	19	19.74	155	11.33	8.79	2.5	3.1	26	0	90	.11	6	.6	1.0	UER
		28	2010	15.30	19	21.30	155	13.28	8.60	2.2	3.0	26	0	54	.12	6	.7	1.0	UER
		29	2 7	24.32	19	11.55	155	37.53	9.85	3.0	3.4	25	0	97	.22	21	1.5	.7	HEA
		29	5 0	56.17	19	20.61	155	6.46	9.04	3.2	3.4	27	0	102	.10	7	.7	.5	UER
		29	1019	56.47	19	22.74	154	59.64	8.66	4.7	4.9	33	0	184	.14	10	1.2	.9	LER
		29	1415	54.41	19	20.17	155	8.06	7.71	2.1	2.6	27	0	85	.13	9	.7	.9	UER
		29	1423	57.95	19	23.24	155	4.59	7.59	2.1	2.9	25	0	141	.13	9	.9	.9	MER
		29	2346	47.54	19	20.12	155	7.66	5.51	2.2	2.5	29	0	93	.13	8	.8	1.6	UER
		30	134	16.89	19	19.89	155	12.29	9.17	2.2	2.8	27	0	80	.11	6	.6	.9	UER
		30	2027	14.32	19	19.31	155	13.25	10.09	2.8	3.1	26	0	74	.13	7	.8	.4	UER
		31	122	.20	19	26.61	155	22.54	9.17	3.1	3.1	29	0	74	.14	10	.7	1.2	UKF
		31	8 7	17.22	19	24.13	155	15.64	1.88	2.2	2.7	23	0	63	.11	3	.5	.5	SPC
		31	1247	20.56	19	20.29	155	16.53	9.33	2.8	3.3	32	0	82	.11	6	.5	.4	KOA
		31	1345	48.81	19	25.27	154	54.51	8.15	2.2	2.3	25	0	220	.14	17	2.0	.9	LER
		31	1632	9.40	19	20.77	155	7.37	7.36	1.9	2.7	28	0	88	.11	8	.6	1.0	UER
		31	1759	11.76	19	27.86	154	53.62	8.41	2.4	3.3	24	0	217	.16	18	2.6	1.1	LER
		31	20 7	26.96	19	22.10	155	4.83	7.52	3.3	3.9	28	0	82	.13	9	.7	.9	MER
	FEB	1	916	5.08	19	22.20	155	6.84	8.57	2.2	2.4	26	0	71	.09	8	.5	.9	UER
		1	1741	9.45	19	19.07	155	19.95	9.77	2.6	2.9	28	0	87	.13	6	.6	.6	SWR
		2	332	18.25	19	20.93	155	11.12	8.87	2.2	2.6	28	0	70	.14	8	.8	1.1	UER
		2	549	52.21	19	27.65	154	55.20	7.87	1.8	1.9	16	4	185	.19	16	1.8	1.1	LER
		2	11 2	34.78	19	21.81	155	15.11	8.31	1.9	2.5	26	0	59	.12	4	.6	.9	KOA
		2	1217	7.63	19	23.83	155	16.80	1.51	1.7	2.3	15	0	80	.10	3	.5	.3	SPC
		2	1433	23.44	19	21.26	155	8.25	9.31	2.1	2.5	26	0	71	.07	9	.4	.5	UER
		3	739	57.67	19	20.75	155	4.02	5.57	2.0	2.5	25	0	114	.15	10	1.0	1.7	MER
		3	758	21.54	19	26.45	154	53.66	7.88	2.4	2.4	22	0	227	.17	19	2.9	1.4	LER
		3	1350	16.10	19	54.09	155	43.97	8.91	2.7	2.4	10	3	247	.08	42	.9	.8	KKU
		3	1454	23.30	19	20.40	155	13.68	8.52	2.0	2.4	21	0	57	.08	6	.5	.9	UER
		3	1642	13.45	19	22.68	155	5.95	8.74	3.4	3.7	30	0	72	.11	7	.6	.6	MER
		3	1737	6.19	19	18.37	155	20.48	9.56	2.5	3.1	28	0	115	.15	6	.9	.7	SWR
		3	2045	21.72	19	20.30	155	11.73	7.14	1.7	2.6	22	0	77	.12	7	.7	1.5	UER
		3	2050	58.46	19	21.67	155	15.18	9.78	3.5	3.8	29	0	61	.08	4	.4	.3	KOA
		3	21 3	35.93	19	23.25	155	4.70	8.07	2.3	2.9	25	0	91	.13	9	.9	1.4	MER
		3	21 5	25.71	19	29.11	154	52.11	6.93	2.4	2.7	19	0	263	.18	20	4.1	1.4	LER
		4	5 2	37.85	19	23.38	155	.67	6.75	2.4	3.0	24	0	160	.08	9	.7	.5	LER
		4	848	41.68	19	20.29	155	4.57	7.03	2.0	2.6	23	0	124	.11	8	.9	1.0	MER
		4	1029	49.54	19	21.63	155	7.61	7.96	2.8	3.3	27	0	73	.11	8	.6	.9	UER
		4	1150	51.72	19	21.27	155	2.29	6.04	2.6	2.9	24	0	156	.13	12	1.0	1.7	MER
		4	1533	39.32	19	39.55	155	6.40	.96	2.1	2.2	9	0	246	.17	33	3.9	50.2	HIL
		5	1 7	21.20	19	19.11	155	11.50	9.01	1.8	2.2	18	0	104	.09	7	.7	1.2	UER
		5	1149	4.48	19	21.42	155	8.12	8.14	3.1	3.6	28	0	71	.12	9	.7	.9	UER
		5	1457	58.60	19	24.09	155	15.11	2.00	1.9	3.1	12	0	117	.22	3	1.8	.0	SPC
		5	1919	16.71	19	20.45	155	7.11	9.27	3.2	3.6	28	0	96	.08	7	.6	.4	UER
		6	1 1	6.19	19	19.65	155	20.07	7.03	1.9	2.5	26	0	75	.14	6	.7	1.4	SWR
		6	139	.29	19	21.59	155	8.17	7.40	2.6	3.0	27	0	68	.16	9	.9	1.7	UER
		6	240	7.96	19	20.82	155	8.69	8.34	2.2	2.9	27	0	69	.12	8	.7	1.1	UER
		6	844	15.49	19	28.00	154	51.45	8.47	2.4	2.5	24	0	268	.15	22	3.4	1.1	LER

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	REMK
1976	FEB	6	845	22.08	19	20.68	155	13.05	8.10	2.0	2.9	26	0	62	.12	6	.7	.9	UER
		6	1848	31.45	19	25.60	155	25.49	9.42	2.4	2.5	28	0	52	.11	11	.5	.8	UKF
		6	2346	29.99	19	29.53	154	51.34	7.77	2.7	2.8	23	0	267	.16	22	3.4	1.0	LER
		7	5	8 55.01	19	21.36	155	8.16	11.20	2.2	2.7	17	0	71	.07	9	.6	.4	UER
		7	529	35.26	19	20.15	155	6.69	9.14	2.4	2.8	27	0	109	.09	7	.5	.6	UER
		7	742	42.77	19	19.10	155	22.05	5.96	1.8	2.7	21	0	101	.14	8	.9	1.9	SWR
		7	2248	12.26	19	19.77	155	7.46	7.82	3.2	3.7	27	0	103	.09	8	.5	.8	UER
		7	2346	41.99	19	20.46	155	6.78	9.29	2.0	2.7	24	0	101	.09	7	.6	.5	UER
		8	2	5 10.83	19	22.44	154	58.92	6.61	2.1	2.4	23	3	197	.15	15	1.3	1.7	LER
		8	540	55.17	19	14.61	155	34.62	10.35	2.7	3.0	25	0	114	.19	19	1.6	.6	HEA
		8	9	3 49.18	19	19.43	155	19.10	9.06	1.7	3.2	27	0	57	.13	7	.7	.8	SWR
		8	1441	32.43	19	18.01	155	19.77	6.64	2.0	2.8	24	0	123	.17	7	1.0	1.9	SWR
		9	020	21.18	19	22.90	154	58.92	6.33	2.2	2.5	27	0	191	.15	10	1.4	1.1	LER
		9	929	57.42	19	24.25	155	16.15	1.76	1.7	2.2	16	1	70	.14	2	.6	.4	SPC
		9	1041	52.28	19	21.33	155	2.37	6.01	2.1	2.5	16	0	152	.10	12	.9	1.2	MER
		9	1216	48.31	19	25.73	155	28.18	9.51	2.7	2.6	26	0	49	.14	13	.8	1.4	UKF
		9	1457	17.20	19	21.86	155	3.61	5.97	2.0	2.5	18	0	122	.09	11	.6	1.1	MER
		9	1853	48.76	19	22.99	155	4.95	7.22	2.1	2.7	22	0	96	.11	9	.7	1.4	MER
		10	638	25.33	19	19.42	155	16.49	9.00	2.3	2.8	29	0	97	.11	6	.6	.9	KOA
		10	839	39.73	19	20.33	155	13.27	6.97	1.6	2.5	21	0	63	.13	6	.8	1.5	UER
		10	1639	53.69	19	20.06	155	12.28	7.01	1.8	2.6	19	0	77	.10	6	.7	1.4	UER
		10	1646	17.38	19	18.26	155	23.24	5.05	1.1	1.9	15	0	146	.09	8	.6	.9	SWR
		10	1655	26.92	19	23.39	155	2.64	7.34	2.1	2.2	22	0	126	.12	11	1.0	.8	MER
		10	1744	30.45	19	23.71	155	16.70	1.68	1.6	2.2	15	0	80	.09	3	.5	.3	SPC
		10	1820	8.55	19	20.33	155	6.87	9.50	2.8	3.5	25	0	102	.09	7	.6	.6	UER
		10	1956	7.78	19	21.31	155	7.39	7.85	2.5	2.8	24	0	79	.10	8	.6	1.0	UER
		11	6	6 52.37	19	23.23	155	16.84	1.93	1.8	2.8	20	0	57	.13	2	.6	.3	SPC
		11	650	53.65	19	19.33	155	12.29	7.23	1.7	2.5	23	0	90	.11	7	.7	1.5	UER
		11	1457	22.73	19	28.20	154	49.40	8.01	2.5	2.4	19	0	277	.15	25	6.4	1.2	LER
		11	1513	39.03	19	27.49	154	52.44	9.25	2.5	2.9	21	0	264	.09	20	1.8	.6	LER
		11	1740	5.06	19	21.75	155	6.24	7.43	2.1	2.6	26	0	80	.13	9	.7	1.2	UER
		11	1847	3.99	19	20.21	155	7.08	6.83	1.9	2.2	24	0	102	.10	7	.6	1.2	UER
		11	21	6 34.24	19	20.74	155	8.68	8.56	1.8	2.6	25	0	70	.09	8	.5	.8	UER
		11	2219	30.53	19	17.81	155	21.24	5.70	1.7	2.4	22	0	121	.14	8	.8	2.3	SWR
		12	457	32.16	19	18.63	155	22.21	7.91	2.1	2.8	27	0	109	.12	9	.7	1.0	SWR
		12	618	26.21	19	21.67	155	3.51	7.25	3.2	3.8	28	0	109	.12	11	.8	.8	MER
		12	1531	19.56	19	20.84	155	6.41	6.99	2.1	2.6	23	0	97	.09	7	.5	1.0	UER
		12	1726	53.56	19	22.06	155	17.96	4.05	2.0	2.4	18	0	51	.12	4	.6	1.5	KOA
		12	1949	46.81	19	25.06	155	17.01	.90	1.7	2.6	12	0	150	.07	2	.6	.3	SPC
		12	2114	43.35	19	18.68	155	23.01	4.97	1.7	2.7	20	0	106	.11	8	.6	1.0	SWR
		13	049	51.86	19	31.33	155	57.70	9.68	3.6	3.1	27	0	234	.15	22	2.1	.4	KON
		13	712	29.09	19	22.12	155	4.99	7.14	2.9	3.1	28	0	80	.10	9	.5	1.0	MER
		13	1327	27.05	19	20.83	155	6.55	9.46	2.9	3.1	26	0	96	.09	7	.7	.6	UER
		13	2227	59.83	19	21.03	155	6.00	8.84	2.8	3.1	25	0	96	.10	7	.6	.9	UER
		14	049	47.22	19	22.07	155	3.02	7.14	2.7	3.1	24	0	124	.11	12	.7	1.0	MER
		14	1356	27.52	19	27.03	154	54.87	8.14	2.2	2.4	17	0	190	.14	17	2.1	1.0	LER
		14	2025	29.40	19	20.76	155	10.50	9.10	2.0	2.5	16	0	87	.08	8	.7	1.1	UER
		15	1028	53.34	19	21.44	155	6.00	8.39	2.3	3.1	16	0	111	.09	8	.7	1.1	UER

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	REMK
1976	FEB	15	2319	46.79	19	19.25	155	12.36	7.37	2.4	3.0	25	0	91	.12	7	.7	1.4	UER
		16	359	20.30	19	20.14	155	7.34	7.83	2.6	3.1	24	0	98	.15	8	.9	1.5	UER
		16	845	26.30	19	19.53	155	15.31	8.20	1.6	1.5	18	0	98	.08	6	.6	1.2	KOA
		16	856	10.72	19	22.39	155	13.22	4.14	2.1	2.7	19	0	51	.10	5	.6	1.2	UER
		16	1043	59.96	19	20.61	155	6.47	7.85	2.1	1.4	21	0	102	.12	7	.9	1.5	UER
		16	1045	24.32	19	21.15	155	2.59	5.93	2.2	1.5	23	0	164	.16	12	1.4	1.7	MER
		16	1136	11.46	19	21.83	155	13.01	1.83	1.4	1.4	7	0	162	.04	6	.8	.4	UER
		16	1219	34.16	19	19.49	155	12.58	7.33	1.8	2.0	22	0	83	.13	7	.9	1.7	UER
		16	1320	37.99	19	19.90	155	7.24	11.54		1.4	16	0	105	.11	8	1.2	.5	UER
		16	1411	48.31	19	20.56	155	6.58	8.42	2.5	2.7	24	0	101	.11	7	.7	.8	UER
		16	1418	26.81	19	19.76	155	16.74	7.12		1.1	17	0	94	.12	5	.9	1.7	KOA
		16	1419	2.53	19	19.79	155	15.16	8.11	1.6	1.6	20	0	91	.07	6	.5	.9	KOA
		16	1517	21.38	19	19.74	155	15.31	8.01		1.1	18	0	93	.06	6	.5	1.0	KOA
		16	1537	20.33	19	18.67	155	13.85	8.67		1.5	14	0	94	.07	7	.7	1.2	POL
		16	1549	5.28	19	23.10	155	17.06	1.63	1.0	1.3	9	0	121	.06	3	.6	.3	SPC
		16	17	0 23.77	19	19.24	155	20.99	5.87	1.6		19	0	123	.13	6	.9	2.0	SWR
		16	17	0 39.01	19	21.69	155	15.15	9.48	2.9	3.3	27	0	64	.10	4	.6	.7	KOA
		16	17	5 7.00	19	18.22	155	19.84	6.45		1.3	14	0	156	.09	7	1.2	1.6	SWR
		16	19	3 54.17	19	26.90	154	52.60	9.16		1.0	12	0	275	.11	20	3.7	.9	LER
		16	1917	22.52	19	23.57	155	2.52	7.62	2.1	1.5	19	0	144	.11	10	.8	1.3	MER
		16	1918	32.94	19	22.04	155	1.85	5.18	2.1	1.6	19	0	177	.17	12	2.1	1.6	MER
		16	1920	1.75	19	19.12	155	13.47	9.71	1.7	.7	21	0	77	.13	7	.9	1.2	UER
		16	20	3 28.08	19	20.84	155	29.96	8.63	2.0	1.4	21	0	58	.12	12	.9	1.2	HEA
		16	2056	7.40	19	19.07	155	16.38	6.92		1.1	13	0	116	.05	6	.5	1.2	KOA
		16	2128	39.21	19	30.54	154	50.09	8.85	2.5	1.6	19	0	320	.11	24	3.8	.8	LER
		16	2150	33.41	19	22.91	155	.38	4.01		1.4	18	0	199	.26	10	2.8	2.1	LER
		16	22	8 19.92	19	20.44	155	18.52	7.43		1.4	15	0	70	.06	6	.5	1.0	KOA
		16	2222	37.86	19	18.56	155	21.19	1.50		1.4	15	0	111	.10	7	.7	.0	SWR
		16	2241	46.16	19	19.16	155	15.44	7.00		.6	15	0	110	.06	6	.4	1.2	KOA
		16	23	7 25.54	19	19.49	155	11.92	4.79		1.6	18	0	173	.10	6	.7	.9	UER
		17	017	15.37	19	28.07	154	51.61	7.74		1.2	18	0	267	.15	22	3.9	1.1	LER
		17	026	5.94	19	21.16	155	4.01	6.67	2.5	2.6	23	0	102	.17	10	1.3	2.2	MER
		17	029	17.69	19	17.57	155	20.63	7.21	2.1	2.3	25	0	126	.14	7	.9	1.2	SWR
		17	054	2.35	19	23.71	155	24.25	9.95		1.1	15	0	63	.08	8	.7	1.2	UKF
		17	140	55.45	19	17.71	155	22.50	7.88		1.2	15	0	157	.13	8	1.3	1.5	SWR
		17	237	58.15	19	20.30	155	10.38	8.52		1.1	17	0	88	.09	7	.7	1.6	UER
		17	241	6.19	19	20.62	155	8.52	7.60		.6	19	0	73	.13	9	1.0	1.3	UER
		17	324	46.46	19	22.28	155	4.16	15.66		2.0	15	0	151	.12	10	2.8	4.4	MER
		17	343	16.98	19	34.43	155	45.99	7.39	2.5	1.7	13	0	133	.15	20	1.5	2.2	KON
		17	411	59.03	19	20.71	155	11.75	7.29		1.3	17	0	142	.15	7	1.4	2.4	UER
		17	532	2.18	19	23.91	155	16.00	3.00	1.9	2.3	18	2	105	.15	3	.7	2.0	SPC
		17	553	7.59	19	23.61	154	59.97	5.63	2.4	2.3	20	0	167	.13	9	1.3	2.0	LER
		17	6	4 21.92	19	19.64	155	12.30	7.10		1.4	16	0	146	.08	6	.6	1.2	UER
		17	6	6 42.83	19	19.86	155	7.69	7.30	1.9	2.2	24	0	96	.10	8	.6	.9	UER
		17	610	22.45	19	24.03	155	13.06	8.10	1.6	1.5	19	0	62	.11	6	.7	1.3	GLN
		17	7	4 6.97	19	20.36	155	9.35	7.62		1.4	20	0	73	.10	8	.7	1.4	UER
		17	721	43.25	19	22.01	155	6.13	6.91		1.6	23	0	76	.14	7	.9	1.6	UER
		17	726	57.11	19	24.41	155	16.22	1.83	.9	1.1	8	0	138	.04	3	.4	.2	SPC

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	REMK
1976	FEB	17	752	16.59	19	24.14	155	15.93	1.67	1.7	2.2	14	0	113	.13	3	.7	.6	SPC
		17	8 2	24.76	19	22.47	155	5.00	7.50		1.5	18	0	93	.12	9	.9	1.8	MER
		17	1552	5.06	19	20.01	155	12.12	6.97	2.0	2.6	22	0	79	.12	6	.8	1.5	UER
		17	17 0	21.74	19	17.65	155	21.11	7.08	2.0	2.5	17	0	123	.13	8	1.1	2.4	SWR
		17	1931	59.20	19	13.23	155	34.04	9.39	2.7	2.9	22	1	122	.18	20	1.4	1.6	HEA
		18	425	36.76	19	20.12	155	7.47	8.12	2.5	3.0	25	0	96	.11	8	.7	.8	UER
		18	514	37.65	19	20.25	155	6.71	6.79	1.9	2.8	23	0	107	.10	7	.6	1.2	UER
		18	1050	47.59	19	27.07	154	52.51	8.67	2.4	2.1	21	1	259	.15	21	2.2	.8	LER
		18	1840	52.61	19	25.82	155	16.46	.69	2.8	4.1	21	1	128	.15	2	.6	1.2	SPC
		18	1848	55.63	19	25.49	155	16.45	.56	1.7	2.6	15	2	147	.10	2	.4	.2	SPC
		18	2020	23.77	19	17.41	155	21.18	7.48	1.9	2.6	21	0	126	.11	8	.8	1.3	SWR
		19	616	29.44	19	19.27	155	11.88	7.32	2.2	2.7	22	0	97	.11	7	.7	1.6	UER
		19	641	55.48	19	21.13	155	4.01	6.48	2.0	2.7	20	0	134	.11	10	.9	1.1	MER
		19	938	41.33	19	28.56	154	49.92	9.13	2.4	2.3	19	2	274	.15	24	2.7	1.0	LER
		19	2239	13.35	19	26.46	155	25.11	7.88	2.9	2.9	28	0	68	.12	11	.6	1.0	UKF
		19	2321	45.75	19	21.56	155	1.97	8.19	2.5	2.7	25	0	161	.11	13	1.0	.7	MER
		20	533	1.70	19	22.31	155	6.34	7.99	2.2	2.6	24	0	73	.12	7	.7	1.1	UER
		20	736	10.04	19	19.53	155	13.86	9.72	2.4	2.9	21	0	61	.10	6	.7	2.3	UER
		20	1332	45.36	19	18.03	155	22.05	8.68	2.1	2.7	19	0	116	.11	9	.8	1.1	SWR
		20	1951	14.91	20	24.95	156	1.29	31.75	5.1	4.6	5	0	162	.00	83	34.8	55.7	DIS
		21	136	29.96	19	17.27	155	21.66	7.51	2.4	2.9	27	0	125	.18	9	1.2	1.4	SWR
		21	4 0	4.66	19	20.65	155	6.82	8.16	1.9	2.6	24	0	97	.09	7	.5	.8	UER
		21	958	55.73	19	19.56	155	11.56	7.50	2.0	2.7	25	0	93	.09	6	.6	1.0	UER
		22	1251	27.47	19	22.51	155	5.21	9.03	2.5	3.0	21	0	90	.08	8	.6	1.1	MER
		22	1352	28.08	19	21.57	155	6.35	7.49	1.9	1.8	19	0	83	.14	7	1.1	2.0	UER
		22	2126	57.89	19	16.71	155	22.21	3.13	1.8	2.6	18	0	129	.15	8	1.0	3.8	SWR
		23	020	8.08	19	21.12	155	13.18	8.54	2.0	2.6	21	0	57	.09	6	.6	1.0	UER
		23	426	47.70	19	13.87	155	22.61	5.43		2.2	19	3	159	.12	12	.7	1.2	LSW
		23	7 2	28.80	19	22.18	155	12.98	2.77	1.4	2.4	15	0	62	.08	5	.6	1.5	UER
		23	736	.02	19	20.37	155	8.35	9.46	2.2	2.8	19	0	78	.08	9	.6	1.1	UER
		23	855	49.91	19	22.98	155	4.92	7.48	2.6	3.0	22	0	87	.12	9	.7	1.2	MER
		23	945	23.48	19	21.61	155	15.24	9.19	3.2	3.3	25	0	62	.11	4	.6	.9	KOA
		23	950	13.85	19	24.83	155	24.75	10.34	2.6	2.9	18	0	86	.08	9	.6	.5	UKF
		23	1150	2.34	19	24.75	155	24.63	9.03	2.8	2.8	20	0	85	.14	9	1.0	1.6	UKF
		23	1731	16.80	19	20.74	155	12.92	8.33	2.3	2.9	25	0	62	.08	6	.5	.5	UER
		23	1828	47.92	19	19.09	155	7.94	6.94	1.9	2.2	20	0	100	.10	9	.8	1.7	UER
		24	248	43.18	19	21.56	155	7.22	7.13	1.9	2.6	22	0	77	.09	8	.5	1.2	UER
		24	550	19.19	19	22.20	155	6.65	8.59	4.2	4.2	29	0	71	.11	8	.6	.7	UER
		24	6 4	15.91	19	22.12	155	6.24	7.09	1.9	2.2	23	0	87	.13	7	.7	1.4	UER
		24	9 0	.18	19	27.51	155	28.33	11.12	1.9	2.1	19	0	71	.10	12	.6	.6	UKF
		24	1442	32.63	19	23.27	155	4.81	7.82	3.2	3.6	23	0	129	.11	9	.7	1.0	MER
		24	1623	9.77	19	22.13	155	6.58	7.29	1.9	2.5	24	0	72	.10	8	.6	.9	UER
		24	1918	30.56	19	21.12	155	7.96	9.38	3.1	3.5	31	0	76	.11	9	.7	.4	UER
		25	325	47.55	19	20.09	155	13.08	6.90	1.7	2.5	24	0	67	.08	7	.5	.8	UER
		25	1030	35.10	19	22.36	155	6.64	8.41	2.4	2.7	23	0	76	.10	8	.6	1.0	UER
		25	1035	50.63	19	19.85	155	7.92	8.26	2.2	2.7	25	0	91	.11	9	.6	.7	UER
		25	1038	13.60	19	20.21	155	8.16	8.16	2.7	3.3	25	0	82	.13	9	.8	1.1	UER
		25	1048	25.20	19	19.42	155	11.74	6.34	2.0	2.4	25	0	94	.14	6	.8	1.7	UER

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	REMK
1976	FEB	25	11 2	43.48	19	20.21	155	17.03	7.23	1.8	2.4	21	0	81	.13	5	.8	1.2	KOA
		25	1348	20.37	19	22.17	155	6.35	8.98	3.9	4.2	31	0	73	.09	7	.5	.4	UER
		25	1957	6.62	19	20.08	155	8.61	8.16	2.0	2.6	28	0	75	.11	9	.6	.7	UER
		25	2258	5.60	19	22.69	155	24.98	9.56	1.9	2.3	30	0	57	.15	9	.8	.5	UKF
		26	342	21.55	19	24.09	155	16.06	1.40	1.5	2.3	14	0	110	.13	3	.6	.4	SPC
		26	1423	37.39	19	24.01	155	15.62	1.91		2.2	14	0	113	.06	3	.4	.3	SPC
		26	18 3	54.85	19	19.29	155	16.45	8.43	1.6	2.3	17	0	109	.05	6	.4	.6	KOA
		27	048	11.32	19	22.07	155	6.65	9.39	2.7	3.2	21	0	111	.07	8	.6	.5	UER
		27	1135	6.58	19	19.71	155	15.56	9.67	2.5	3.1	27	0	85	.09	6	.5	.3	KOA
		27	1526	18.92	19	21.13	155	10.99	8.35	2.5	3.1	25	0	68	.12	9	.6	.9	UER
		27	1758	35.41	19	21.90	155	7.05	8.00	2.9	3.3	28	0	74	.09	8	.4	.7	UER
		28	622	37.16	19	23.32	155	24.62	9.39	2.9	3.1	27	0	60	.12	9	.6	1.0	UKF
		28	1047	55.02	19	23.28	154	59.78	6.93	2.2	2.4	20	0	174	.12	9	1.2	1.2	LER
		28	1112	2.43	19	21.16	155	7.35	9.48	2.3	2.6	23	0	82	.10	8	.6	.8	UER
		28	1212	55.61	19	23.21	155	4.68	8.07	2.7	3.3	24	0	91	.10	9	.5	.9	MER
		28	1526	58.09	19	18.04	155	26.26	8.14	1.9	2.5	24	0	95	.17	9	.9	1.6	HEA
		28	1738	35.85	19	19.18	155	12.07	8.78	2.5	2.8	22	0	97	.09	7	.6	1.0	UER
		28	2037	49.12	19	21.89	155	15.09	9.94	2.0	2.5	22	0	58	.08	5	.5	.7	KOA
		28	2355	25.89	19	22.42	155	6.36	8.12	3.3	3.6	25	0	69	.11	8	.6	.8	UER
		29	1133	.35	19	25.85	155	16.24	1.09	2.1	2.6	15	3	119	.16	4	1.0	.6	SPC
		29	1446	11.92	19	17.73	155	21.09	8.34	2.7	3.2	24	0	122	.13	8	.9	1.2	SWR
		29	18 3	10.88	19	19.68	155	15.54	8.78	2.0	2.9	23	0	86	.07	6	.4	.7	KOA
		29	1941	58.83	19	20.28	155	6.61	9.13	3.1	3.5	27	0	107	.11	7	.8	.5	UER
	MAR	1	325	44.79	19	23.62	155	3.11	7.28	2.3	2.6	21	0	117	.13	11	.9	1.4	MER
		1	517	11.98	19	19.46	155	8.49	7.92	1.9	2.3	19	0	81	.08	10	.5	.8	UER
		1	854	57.59	19	19.35	155	16.28	8.20	2.0	2.7	24	0	97	.07	6	.5	.6	KOA
		2	023	44.65	19	25.26	155	16.79	.79	1.6	2.6	9	0	158	.06	3	.7	.2	SPC
		2	433	33.70	19	18.98	155	13.57	9.10	2.5	2.9	28	0	70	.09	7	.6	.8	POL
		2	812	33.82	19	23.49	154	58.28	6.02	2.5	2.8	23	0	190	.15	11	1.5	1.9	LER
		2	938	7.81	19	20.29	155	12.21	6.55	1.6	1.4	20	0	74	.16	6	1.1	2.2	UER
		2	946	27.07	19	20.77	155	11.14	8.99		1.4	18	0	72	.07	8	.6	1.0	UER
		2	10 6	32.52	19	19.25	155	11.91	6.50		1.2	20	0	97	.16	7	1.1	2.4	UER
		2	1026	23.53	19	22.46	155	5.32	8.01	1.9	2.3	23	0	88	.15	8	1.0	1.5	MER
		2	11 4	22.70	19	19.29	155	12.84	8.15		1.4	19	0	82	.07	7	.5	1.1	UER
		2	1114	30.99	19	20.10	155	13.21	7.73		.9	19	0	66	.13	6	1.0	1.9	UER
		2	1150	12.64	19	20.76	155	11.77	9.21	1.7	1.8	23	0	70	.09	8	.6	1.0	UER
		2	1228	2.97	19	20.92	155	13.31	7.88		1.7	20	0	60	.13	6	.9	1.1	UER
		2	1343	42.38	19	17.80	155	23.66	4.86	2.2	2.6	22	0	111	.16	9	.8	1.4	SWR
		2	1452	39.66	19	19.36	155	16.43	6.76		1.0	18	0	106	.11	6	.8	1.3	KOA
		2	1531	21.05	19	19.93	155	16.87	6.61		1.1	18	0	88	.10	5	.7	1.3	KOA
		2	1634	16.63	19	21.54	155	13.53	8.95	2.0	2.2	24	0	100	.10	6	.7	.9	UER
		2	1653	56.25	19	19.76	155	13.56	6.91		.9	20	0	71	.16	6	1.1	2.4	UER
		2	1750	45.08	19	19.09	155	13.93	8.11		1.1	16	0	88	.08	7	.7	1.5	UER
		2	1814	27.57	19	19.43	155	15.06	6.43		.9	18	0	99	.11	6	.8	1.8	KOA
		2	1832	56.05	19	19.01	155	13.01	7.03		1.5	20	0	83	.10	8	.7	1.6	UER
		2	1852	25.90	19	20.05	155	17.04	7.45		1.5	19	0	84	.13	5	.7	1.1	KOA
		2	1939	44.97	19	20.89	155	10.44	7.77	1.7	1.4	23	0	70	.12	8	.8	1.4	UER
		2	1941	29.95	19	17.86	155	24.01	1.29	1.9	2.2	24	0	109	.18	9	.9	36.9	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	REMK
1976	MAR	2	2059	40.60	19	20.70	155	6.30	7.23		1.0	25	0	101	.13	7	.8	1.6	UER
		2	2114	17.46	19	21.34	155	7.14	6.76	1.9	2.0	25	0	81	.15	8	1.0	1.6	UER
		2	2148	47.22	19	26.69	155	25.17	9.95		1.4	23	0	54	.11	11	.7	1.4	UKF
		2	2153	27.15	19	19.50	155	12.15	8.00		1.0	18	0	88	.10	6	.7	1.5	UER
		2	22 3	51.64	18	52.45	155	14.36	10.83	2.8	2.4	25	0	256	.11	46	3.6	99.0	PPL
		2	2221	15.40	19	20.94	155	13.07	7.38		.9	21	0	59	.14	6	.9	1.7	UER
		2	2229	31.30	19	24.31	155	13.34	8.95		.9	19	0	88	.09	6	.7	1.0	GLN
		2	2249	16.06	19	21.44	155	14.21	9.48		1.3	22	0	59	.09	6	.6	.9	UER
		2	23 0	13.23	19	19.22	155	11.79	6.91	2.4	2.6	29	0	99	.15	7	.9	1.4	UER
		2	2325	22.48	19	22.05	155	1.35	6.08		2.0	23	0	167	.16	12	1.3	1.9	MER
		3	045	21.56	19	19.98	155	8.41	8.38		1.1	19	0	80	.08	10	.5	.9	UER
		3	046	50.86	19	17.41	155	21.78	1.99		1.5	20	2	123	.17	9	.9	1.6	SWR
		3	1 3	50.67	19	20.68	155	17.61	8.14	1.5	1.5	24	0	39	.08	5	.4	.6	KOA
		3	351	11.79	19	19.16	155	15.29	7.27		1.2	17	0	108	.05	6	.4	.9	KOA
		3	420	49.25	19	18.89	155	21.16	7.02	1.9	2.2	26	0	103	.15	7	.8	1.7	SWR
		3	428	59.39	19	19.91	155	18.74	28.07		1.1	23	0	68	.08	7	1.0	1.9	DEP
		3	440	44.10	19	21.20	155	6.07	7.11		1.9	24	0	91	.13	7	.9	1.8	UER
		3	530	16.50	20	9.93	155	15.68	3.24	2.9	2.7	18	2	299	.09	57	1.8	.7	DIS
		3	6 0	57.64	19	25.16	155	28.11	8.82	2.5	2.5	33	0	43	.15	12	.7	1.0	UKF
		3	6 2	6.99	19	25.06	155	27.87	8.42	2.3	2.1	28	0	55	.12	12	.6	1.2	UKF
		3	638	49.03	19	18.63	155	11.66	7.90		1.3	22	0	117	.14	7	1.0	2.0	POL
		3	652	1.22	19	23.72	155	15.25	4.63	2.5	3.3	27	0	89	.12	3	.6	.7	SPC
		3	726	36.53	19	17.21	155	22.98	6.23		1.4	19	0	120	.14	11	1.0	3.0	SWR
		3	934	44.56	19	20.97	155	2.90	5.63	2.4	2.7	26	0	132	.14	11	1.0	1.4	MER
		3	952	32.24	19	17.06	155	22.64	8.03	1.7	1.4	17	2	123	.13	11	.9	2.6	SWR
		3	1249	50.81	19	20.06	155	7.18	8.98	2.6	2.8	25	0	103	.10	7	.7	.5	UER
		3	13 6	10.20	19	25.61	155	16.53	.64	2.2	3.1	19	0	117	.12	4	.6	.5	SPC
		3	1634	39.39	19	20.06	155	6.96	8.63	2.9	3.2	28	0	107	.09	7	.6	.5	UER
		3	2048	47.28	19	22.24	155	5.11	8.43	2.0	2.6	21	0	79	.10	8	.6	1.2	MER
		4	235	11.76	19	18.40	155	23.52	5.17	2.1	2.6	24	0	107	.14	8	.7	1.0	SWR
		4	630	47.68	19	24.25	155	16.02	1.63	1.8	2.6	16	0	114	.07	3	.3	.2	SPC
		4	22 8	42.63	19	21.48	155	7.76	8.64	2.5	3.2	27	0	74	.10	8	.6	.8	UER
		4	2212	11.39	19	18.85	155	13.22	7.72	2.2	2.8	27	0	81	.12	8	.7	.9	POL
		5	234	25.88	19	20.82	155	11.11	8.89	2.5	3.1	27	0	71	.13	8	.8	1.3	UER
		5	316	52.46	19	24.76	155	7.80	11.10	2.6	3.2	30	0	75	.11	10	.8	.3	GLN
		5	548	14.28	19	20.96	155	9.54	7.95	2.1	2.8	26	0	66	.14	7	.9	1.6	UER
		5	710	6.93	19	24.11	155	16.01	1.39	1.9	3.0	17	0	112	.12	3	.5	.3	SPC
		5	913	28.34	19	20.04	155	8.41	7.31		3.1	25	0	79	.14	9	.9	1.7	UER
		5	1142	51.29	19	16.68	155	22.97	6.51	1.8	2.5	26	0	125	.18	8	1.1	2.6	SWR
		5	2156	14.98	19	12.94	155	22.70	10.99	2.3	2.8	28	0	157	.14	12	1.1	.4	LSW
		6	613	12.70	19	22.67	155	5.92	9.04	2.9	3.4	29	0	72	.11	7	.7	.7	MER
		6	745	47.00	19	19.76	155	8.71	7.40	1.8	2.4	24	0	75	.12	9	.7	1.4	UER
		6	8 9	26.31	19	23.29	155	24.90	10.26	2.5	3.1	29	0	58	.13	9	.7	.4	UKF
		6	1149	5.00	19	21.23	155	13.35	9.49	2.7	3.3	27	0	54	.09	6	.5	.6	UER
		6	1223	4.59	19	21.60	155	1.95	6.04	3.5	4.0	29	0	160	.11	13	.7	1.1	MER
		6	19 3	44.53	19	23.31	155	16.99	1.90	2.6	3.4	16	0	62	.09	3	.5	.3	SPC
		6	2338	34.21	19	22.37	155	3.94	7.40	2.8	3.3	19	0	112	.10	12	.8	1.8	MER
		7	749	14.09	19	19.35	155	12.01	10.29	3.1	3.4	18	0	93	.09	6	.7	.8	UER

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	REMK
1976	MAR	7	834	24.07	19	20.80	155	6.14	6.78	1.9	2.4	12	2	318	.17	16	4.6	2.3	UER
		7	927	32.08	19	20.81	155	10.46	8.00		1.4	20	0	72	.11	8	.8	1.5	UER
		7	10 5	39.83	19	18.04	155	20.21	6.96		1.3	10	0	127	.09	7	1.1	2.3	SWR
		7	11 9	17.48	19	26.09	155	29.06	8.89	1.9	1.7	13	0	120	.12	13	1.3	6.6	UKF
		7	1120	37.15	19	24.53	155	3.09	7.57	2.4	2.7	18	0	128	.11	13	.9	1.4	MER
		7	1123	54.42	19	21.00	155	10.72	8.58	2.2	2.2	17	0	81	.07	8	.6	1.2	UER
		7	12 0	51.74	19	20.47	155	12.47	8.27		1.3	22	0	69	.12	7	.8	1.6	UER
		7	1319	55.56	19	23.59	155	16.84	1.67	1.4	2.0	15	0	68	.09	3	.4	.3	SPC
		7	1416	9.40	19	19.12	155	12.32	5.93		1.1	19	0	94	.14	7	1.0	2.5	UER
		7	1456	43.27	19	22.12	155	18.02	1.71	1.0	1.5	11	0	80	.08	4	.5	99.0	KOA
		7	1457	37.14	19	20.47	155	17.83	6.83		1.3	17	0	65	.08	5	.5	1.0	KOA
		7	1523	47.63	19	24.50	155	.84	6.94		1.6	20	0	169	.14	9	1.3	1.5	LER
		7	1542	27.42	19	19.07	155	12.63	7.70	1.7	1.4	20	0	90	.09	7	.6	1.0	UER
		7	16 9	2.44	19	25.79	155	9.77	11.63		1.4	23	0	45	.13	8	.9	.4	GLN
		7	1625	34.64	19	21.78	155	7.17	8.24	3.7	4.0	30	0	74	.12	8	.6	.8	UEP
		7	1635	3.83	19	23.78	155	16.93	1.76	1.6	2.1	14	0	47	.06	3	.3	.2	SPC
		7	1818	56.52	19	20.54	155	13.31	8.04		1.3	22	0	60	.12	7	.8	1.4	UER
		7	1825	1.59	19	26.59	155	25.21	10.64		1.3	16	0	71	.09	11	.9	.5	UKF
		7	1928	35.40	19	19.65	155	11.67	7.52	1.7	2.0	29	0	90	.13	6	.7	1.1	UER
		7	1936	9.93	19	20.59	155	17.84	6.99		1.1	16	0	70	.10	5	.7	1.5	KOA
		7	1953	46.47	19	17.59	155	22.53	5.92	1.8	2.0	26	0	118	.17	8	1.0	2.5	SWR
		7	2131	24.57	19	19.26	155	14.06	7.58	1.6	1.5	23	0	67	.12	6	.8	1.3	UER
		7	2139	5.42	19	19.32	155	11.80	6.88		1.7	25	0	96	.13	7	.8	1.5	UER
		7	2152	1.96	19	19.43	155	11.72	7.64		1.0	20	0	94	.14	6	1.0	2.2	UER
		7	2231	13.16	19	19.67	155	7.72	6.62		1.5	23	0	98	.11	8	.7	1.8	UER
		7	2234	32.76	19	19.41	155	12.95	5.93		1.3	20	0	78	.15	7	.9	2.3	UER
		7	2236	10.58	19	19.68	155	11.87	6.87	1.7	1.5	25	0	88	.11	6	.6	.8	UER
		7	2341	4.05	19	19.04	155	12.58	6.85		1.5	19	0	92	.09	7	.6	1.2	UER
		8	0 0	10.96	19	19.06	155	12.10	5.94		1.2	21	0	99	.12	7	.8	1.9	UER
		8	042	18.85	19	19.46	155	13.50	6.92	2.1	2.4	29	0	68	.18	7	1.0	1.4	UER
		8	047	7.83	19	21.74	155	14.93	9.20	2.1	2.7	24	0	59	.10	4	.5	.7	UER
		8	117	21.98	19	19.56	155	18.62	4.91		1.0	18	0	67	.15	7	.9	1.3	KOA
		8	136	1.39	19	30.25	154	50.78	8.12		1.3	15	0	318	.14	23	4.0	1.1	LER
		8	243	8.58	19	19.24	155	15.34	7.47		.9	16	0	106	.10	6	.7	1.5	KOA
		8	3 1	36.64	19	20.63	155	9.33	7.25		1.0	22	0	69	.16	8	1.1	2.0	UER
		8	322	54.48	19	20.27	155	8.97	7.39		1.3	24	0	71	.11	8	.7	1.4	UER
		8	352	22.10	19	21.21	155	3.67	6.22		1.5	21	0	115	.12	10	.9	1.6	MER
		8	4 7	40.64	19	21.79	155	2.88	6.90		2.2	24	0	146	.14	12	1.2	1.0	MER
		8	427	26.41	19	21.77	155	4.91	6.72		1.3	23	0	90	.13	9	.8	1.4	MER
		8	439	24.53	19	27.31	154	52.87	9.94		1.1	18	0	250	.16	20	3.2	.6	LER
		8	446	4.17	19	28.07	154	54.57	5.44		1.5	18	0	171	.20	17	2.9	2.1	LER
		8	5 1	36.68	19	18.71	155	22.20	7.82	1.9	2.2	26	0	108	.17	9	1.0	1.3	SWR
		8	546	51.00	19	19.34	155	11.31	5.87		1.1	21	0	100	.11	7	.8	1.6	UER
		8	549	33.14	19	12.91	155	28.54	8.12	2.1	2.1	25	0	140	.14	16	1.1	1.4	LSN
		8	6 2	12.52	19	28.04	154	54.86	5.04		1.9	22	0	165	.13	16	1.3	.9	LER
		8	641	46.06	19	20.87	155	7.24	6.84	1.9	2.4	23	0	87	.13	8	.9	1.5	UER
		8	10 6	10.48	19	22.09	155	5.37	6.76	1.9	2.9	25	0	84	.12	8	.6	1.2	MER
		8	1536	57.08	19	17.66	155	21.28	7.97	2.5	3.2	29	0	123	.16	8	1.0	1.3	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	REMK
1976	MAR	9	238	42.37	19	22.28	155	5.28	6.91	2.5	3.3	28	0	77	.15	8	.8	1.2	MER
		9	443	59.18	19	23.79	154	59.19	6.54	2.2	2.6	28	0	175	.17	10	1.4	1.3	LER
		9	5 5	17.66	19	18.54	155	20.65	9.37	2.8	3.5	30	0	110	.09	6	.5	.4	SWR
		9	21 6	17.50	19	21.80	155	.77	5.81	2.1	2.4	24	0	183	.11	12	.8	1.0	LER
		9	2322	22.80	19	19.13	155	13.65	8.07	2.0	2.6	24	0	67	.10	7	.6	1.0	UER
		10	026	52.24	19	24.13	155	16.11	1.45	1.6	2.5	13	0	110	.08	3	.4	.3	SPC
		10	049	26.40	19	19.95	155	6.79	7.13	1.8	2.6	27	0	74	.11	9	.7	1.3	UER
		10	613	34.98	19	20.79	155	13.21	8.80	2.2	2.6	27	0	59	.10	6	.6	.8	UER
		10	8 7	36.01	19	21.07	155	6.32	8.71	2.1	2.8	26	0	93	.09	7	.6	.6	UER
		10	932	54.04	19	20.18	155	19.58	7.75	2.2	2.6	27	0	59	.12	6	.7	1.0	SWR
		10	952	20.49	19	18.23	155	23.38	6.42	2.4	3.0	29	0	109	.18	8	.9	2.2	SWR
		10	1832	40.95	19	20.30	155	7.13	9.05	2.8	3.6	26	0	99	.13	7	.9	.7	UER
		10	2141	14.15	20	2.21	155	33.10	26.35	3.1	2.3	33	0	191	.14	30	1.4	3.9	KOH
		11	231	33.54	19	20.62	155	6.56	8.50	2.2	3.0	29	0	100	.10	7	.7	.5	UER
		11	4 0	10.65	19	21.49	155	15.22	8.77	2.0	2.8	28	0	63	.14	4	.7	.9	KOA
		11	4 2	42.23	19	21.60	155	15.45	8.98	3.1	3.6	25	0	67	.11	5	.7	.8	KOA
		11	628	31.83	19	21.75	155	15.30	9.27	2.0	2.7	29	0	60	.13	4	.5	.6	KOA
		11	933	16.86	19	20.50	155	13.80	8.59	2.3	2.6	27	0	56	.10	6	.6	.9	UER
		11	1019	32.18	19	20.34	155	8.05	8.10	2.4	2.7	25	0	83	.10	9	.5	.8	UER
		11	1422	48.08	19	20.93	155	11.24	8.91	2.8	3.1	28	0	70	.13	8	.7	1.1	UER
		12	339	5.14	19	19.64	155	15.77	34.35	2.9	2.8	31	0	88	.10	6	.9	1.6	DEP
		12	518	.94	19	20.04	155	8.47	8.29	2.2	2.6	25	0	78	.09	9	.5	.7	UER
		12	14 0	31.94	19	17.25	155	21.70	9.51	2.5	2.8	25	0	125	.14	9	.8	.7	SWR
		12	21 1	12.47	19	19.65	155	11.66	7.41	2.2	2.8	23	0	90	.09	6	.6	1.1	UER
		12	2110	17.30	19	30.03	154	50.74	9.18	3.3	3.4	12	1	269	.13	29	3.3	1.3	LER
		13	616	16.38	19	8.69	155	30.14	11.26	3.5	3.5	28	3	156	.13	24	1.0	.4	LSW
		13	1012	14.16	19	20.19	155	8.05	6.64	2.2	2.6	23	0	85	.13	9	.8	1.8	UER
		13	1141	19.57	19	18.29	155	23.68	8.15	2.5	3.1	28	0	107	.15	9	.8	1.2	SWR
		13	1642	37.02	19	19.15	155	22.00	5.87	2.2	2.8	23	0	100	.15	8	.8	1.8	SWR
		13	2022	3.78	19	49.45	155	53.06	11.94	3.0	3.2	28	0	193	.19	37	1.9	.7	KON
		14	322	32.68	19	23.66	155	16.68	2.26	2.2	2.9	21	0	75	.15	3	.7	1.9	SPC
		14	354	42.19	19	19.33	155	12.51	7.51	2.4	2.7	27	0	87	.15	7	.9	1.1	UER
		14	1114	58.13	19	22.94	155	25.02	7.89	2.2	2.3	24	0	57	.13	9	.7	1.4	UKF
		14	2110	40.26	19	23.68	155	15.09	1.01	2.2	2.7	23	1	82	.15	3	.5	.5	SPC
		15	1526	12.53	19	17.91	155	23.54	.77	1.9	2.3	26	2	111	.18	9	.7	.6	SWR
		15	1532	25.41	19	19.47	155	12.38	6.93	2.2	2.6	24	0	86	.14	7	.9	1.4	UER
		15	1555	26.14	19	17.96	155	23.60	8.83	2.2	2.8	27	0	110	.14	9	.9	1.0	SWR
		15	1953	2.46	19	22.79	155	26.64	9.63	2.0	2.3	26	0	51	.13	12	.6	.5	UKF
		16	648	16.94	19	21.82	155	7.13	9.27	2.8	3.0	27	0	74	.12	8	.7	.7	UER
		16	12 2	32.67	19	19.65	155	7.51	8.94	2.2	2.8	21	0	103	.10	8	.9	.6	UER
		16	2341	17.49	19	20.54	155	6.56	7.92	2.1	2.9	27	0	102	.11	6	.6	.9	UER
		17	237	56.03	19	20.85	155	6.53	8.75	2.2	2.9	27	0	96	.13	7	.6	.8	UER
		17	341	30.32	19	17.15	155	21.91	7.60	2.2	2.9	30	0	126	.16	9	.9	1.3	SWR
		17	1158	28.69	19	20.06	155	12.10	6.94	2.3	2.7	26	0	79	.15	6	.8	1.2	UER
		17	1443	31.14	19	20.14	155	8.51	7.00	2.1	2.7	27	0	77	.14	9	.8	1.3	UER
		17	1936	18.08	19	19.83	155	12.36	6.54	1.6	2.4	26	0	80	.15	6	.9	1.4	UER
		17	2332	40.10	19	20.84	155	6.80	9.29	2.5	2.9	30	0	93	.10	7	.7	.5	UER
		18	541	43.63	19	21.20	155	10.66	7.86	1.8	2.6	26	0	68	.13	9	.8	1.1	UER

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	REMK
1976	MAR	18	1154	54.43	19	24.18	155	16.15	1.48	2.2	3.0	16	0	111	.08	3	.4	.2	SPC
		19	3 4	1.31	19	24.36	155	15.72	3.96	2.7	3.3	26	0	89	.11	5	.5	.8	SPC
		19	3 8	23.68	19	20.56	155	8.76	6.94	2.1	3.1	27	0	70	.16	8	1.0	1.6	UER
		19	414	15.18	19	11.99	155	32.42	10.60	2.8	3.0	27	1	132	.16	21	1.2	.5	LSW
		19	1324	30.32	19	21.32	155	3.43	8.11	3.9	4.1	29	0	110	.12	11	.8	1.0	MER
		19	1555	6.57	19	20.90	155	2.96	6.62	2.4	2.8	25	0	129	.11	11	.8	1.0	MER
		20	3 5	36.30	19	18.74	155	9.16	5.99	1.9	2.3	27	0	102	.14	8	.8	1.9	POL
		20	7 8	49.48	19	20.63	155	6.74	7.63	2.2	2.8	25	0	98	.09	7	.5	.9	UER
		20	1313	19.86	19	19.83	155	6.53	9.21	3.1	3.5	27	0	120	.09	7	.7	.5	UER
		21	850	38.46	19	21.86	155	15.16	8.13	2.2	2.6	26	0	59	.12	4	.7	.9	KOA
		21	931	33.54	19	22.23	155	15.26	9.78	3.3	3.6	20	0	55	.11	4	.8	1.6	KOA
		21	1358	.16	19	20.90	155	11.30	7.48	2.6	3.0	25	0	75	.14	8	.8	1.3	UER
		21	1745	48.58	19	20.34	155	6.70	8.40	2.6	2.9	23	0	105	.08	7	.6	.7	UER
		21	2031	24.60	19	20.22	155	8.61	8.42	3.2	3.6	27	0	74	.11	9	.6	.7	UER
		21	23 9	36.13	19	19.81	155	16.13	7.93	2.5	2.6	24	0	89	.09	6	.5	1.0	KOA
		21	2355	24.10	19	19.32	155	11.82	6.82	2.2	2.6	18	0	96	.12	6	.9	1.5	UER
		22	115	7.94	19	22.72	155	5.32	8.26	2.7	3.0	26	0	80	.11	8	.6	1.0	MER
		22	727	41.74	19	17.16	155	21.73	8.60	2.4	3.3	28	0	126	.17	9	1.0	1.3	SWR
		22	1745	49.37	19	20.24	155	7.08	6.95	1.9	2.0	23	0	101	.12	7	.8	1.3	UER
		22	2048	26.94	19	21.85	155	5.03	8.75	3.3	3.5	29	0	77	.11	8	.7	.6	MER
		22	2111	26.71	19	21.14	155	20.81	29.44	2.4	2.4	29	0	63	.12	6	1.0	2.0	DEP
		22	2119	56.70	19	20.44	155	6.66	9.59	3.1	3.2	25	0	103	.09	7	.7	.3	UER
		23	6 1	17.06	19	25.52	155	14.99	36.79	2.1		17	2	128	.09	5	2.3	1.9	DEP
		23	1438	11.08	19	19.83	155	11.53	7.89	2.8	3.1	27	0	87	.14	6	.8	1.1	UER
		23	15 6	3.24	19	18.82	155	18.38	9.48	3.7	3.9	30	0	84	.13	8	.6	.7	KOA
		23	1623	53.31	19	21.35	155	7.69	7.08	1.8	2.7	26	0	76	.12	8	.7	1.0	UER
		23	1725	57.51	19	22.95	155	14.00	2.09	2.1	2.9	20	0	63	.13	3	.6	4.1	UER
		24	418	33.99	19	20.55	155	6.48	7.91	2.6	3.4	27	0	103	.11	7	.6	.9	UER
		24	1049	4.40	19	17.72	155	21.25	7.47	2.3	2.5	17	0	122	.10	8	.8	1.6	SWR
		24	1218	9.85	19	22.54	155	13.03	4.59	2.5	2.9	26	0	78	.16	5	.7	1.0	UER
		24	1533	14.87	19	23.04	155	4.42	7.48	2.6	3.0	20	0	95	.12	10	.8	1.5	MER
		24	17 6	28.03	19	20.97	155	5.96	8.05	2.2	2.9	22	0	97	.09	7	.6	1.2	MER
		24	1722	24.35	19	19.63	155	11.55	7.45	2.0	2.5	25	0	91	.10	6	.7	1.0	UER
		24	2214	.81	20	5.73	155	32.46	27.47	2.9	2.5	32	3	211	.16	36	1.2	2.1	KOH
		25	720	51.92	19	20.33	155	8.46	8.07	2.1	2.6	22	0	76	.08	9	.5	.7	UER
		25	18 8	45.75	19	22.26	155	5.09	8.57	2.7	3.1	25	0	80	.11	8	.6	1.0	MER
		25	1940	57.42	19	18.81	155	15.34	9.39	2.3	2.8	25	0	94	.08	6	.5	.6	KOA
		26	657	55.03	19	19.28	155	15.30	7.63	1.9	2.6	25	0	88	.10	6	.6	.8	KOA
		26	844	47.75	19	20.67	155	10.80	9.43	2.9	3.5	18	0	74	.08	8	.6	1.2	UER
		26	1050	39.98	19	21.34	155	7.68	7.42	2.6	3.2	28	0	76	.14	8	.7	1.1	UER
		26	1356	31.39	19	19.45	155	16.49	8.75	2.6	3.4	24	0	97	.10	6	.6	.9	KOA
		26	1444	25.45	19	23.11	155	17.04	1.89	1.8	2.7	11	0	87	.07	3	.5	.3	SPC
		26	1721	55.84	19	19.86	155	8.20	8.45	2.3	3.2	18	0	85	.07	9	.6	.9	UER
		26	1830	46.82	19	21.97	155	15.07	9.80	2.1	2.8	24	0	57	.10	4	.5	.5	KOA
		27	932	52.58	19	22.03	155	6.85	7.56	1.9	2.5	22	0	73	.11	8	.7	1.1	UER
		27	933	41.63	19	21.92	155	6.78	7.75	1.9	2.7	23	0	75	.11	8	.7	1.5	UER
		27	2248	53.85	19	19.92	155	10.36	9.52	2.1	2.8	28	0	87	.11	7	.7	.4	UER
		28	927	53.31	19	18.76	155	22.37	7.05	2.3	2.8	26	0	107	.15	9	.9	1.8	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	REMK
1976	MAR	28	1559	9.53	19	23.11	155	3.44	8.29	2.0	2.5	17	0	126	.11	11	1.0	.9	MER
		28	1911	24.10	19	21.43	155	3.19	7.00	2.0	2.6	18	0	135	.09	11	.9	.8	MER
		28	2352	21.96	19	20.33	155	19.19	8.44	2.3	2.8	23	0	50	.12	7	.7	1.0	SWR
		29	5 9	52.00	19	21.83	155	15.19	9.73	3.7	4.0	27	0	59	.12	4	.7	.5	KOA
		29	536	33.78	19	17.99	155	24.01	8.95	2.1	2.7	24	0	108	.14	9	.8	1.5	SWR
		29	831	29.84	19	24.08	155	15.43	13.40	3.0	3.2	32	0	45	.13	3	.7	1.1	DEP
		29	1014	54.11	19	21.32	155	6.33	8.68	2.3	2.8	23	0	88	.11	7	.7	.8	UER
		29	1036	46.25	19	19.18	155	21.58	7.75	2.0	2.6	26	0	98	.14	8	.8	1.2	SWR
		29	1730	45.49	19	18.94	155	19.85	9.22	2.1	2.8	27	0	89	.10	6	.6	.7	SWR
		29	23 6	55.53	19	17.64	155	21.11	5.55	1.7	2.6	19	0	127	.11	8	.8	1.9	SWR
		30	457	17.49	19	20.08	155	13.65	7.90	2.1	2.9	23	0	60	.15	6	1.0	1.2	UER
		30	1452	10.26	19	20.01	155	7.32	9.50	3.4	3.7	29	0	101	.10	8	.8	.5	UER
		30	20 4	39.43	19	19.82	155	12.35	7.37	2.2	2.7	28	0	114	.14	8	.9	1.2	UER
		31	1540	44.96	19	24.86	155	24.66	8.74	2.3	2.6	31	0	37	.13	9	.6	.9	UKF
		31	2030	58.17	19	18.99	155	13.56	7.93		2.6	27	0	70	.11	7	.7	1.0	POL
	APR	1	549	2.18	19	20.26	155	7.44	9.56	2.4	2.8	26	0	95	.08	8	.6	.3	UER
		2	338	7.71	19	21.53	155	.69	4.14	2.1	2.3	25	0	189	.18	12	1.8	1.2	LER
		2	354	46.86	19	20.35	154	59.41	9.86	2.7	3.1	26	0	214	.19	14	2.6	.7	LER
		2	814	6.50	19	20.62	155	6.50	9.37	4.6	4.6	33	0	101	.10	7	.6	.4	UER
		2	828	26.31	19	20.46	155	7.09	8.63	2.5	2.3	30	0	97	.11	7	.8	.5	UER
		2	829	33.35	19	20.58	155	7.95	7.07	2.4	2.4	28	0	82	.10	9	.6	1.0	UER
		2	914	11.70	19	38.57	155	59.93	6.64	3.4	3.6	24	2	221	.21	29	1.6	1.2	KON
		2	955	3.26	19	19.86	155	12.98	8.41	3.6	3.9	28	0	72	.09	7	.5	.7	UER
		2	18 1	59.38	19	20.11	155	13.57	7.70	2.2	2.7	32	0	61	.13	6	.6	.8	UER
		2	2114	54.30	19	24.28	155	15.77	1.68	2.2	2.9	24	0	46	.12	3	.5	.3	SPC
		2	2331	38.25	19	24.08	155	15.84	1.34	1.9	2.6	18	0	45	.13	3	.5	.4	SPC
		3	143	42.22	19	23.72	155	17.02	3.91	3.0	3.6	32	0	37	.16	3	.6	.9	SPC
		3	635	43.03	19	22.47	155	29.74	7.95	2.2	2.7	32	0	43	.16	12	.8	1.4	UKF
		3	13 0	21.73	19	19.20	155	12.36	7.15	2.0	2.7	27	0	92	.12	7	.7	1.3	UER
		3	1740	55.66	19	29.39	154	52.32	6.21	2.5	2.9	27	4	262	.17	20	1.2	1.3	LER
		4	124	51.43	19	23.58	155	28.56	9.00	2.0	2.6	27	0	49	.12	14	.6	1.1	UKF
		4	949	24.06	19	26.72	154	55.75	6.70	2.2	2.7	12	0	179	.08	15	1.0	1.3	LER
		4	1547	46.83	19	24.17	155	15.40	1.89	2.2	2.5	17	0	114	.13	3	.7	.6	SPC
		4	2036	42.19	19	22.72	155	2.81	7.26	2.0	2.3	23	0	127	.15	12	1.2	1.1	MER
		5	10 2	4.01	19	12.17	155	27.69	4.19	2.3	2.5	21	0	109	.13	17	.8	1.3	LSW
		5	2250	40.52	19	20.16	155	11.95	7.70	2.0	2.6	28	0	78	.13	6	.7	1.2	UER
		6	249	26.94	19	19.46	155	8.70	6.92	1.8	2.3	16	0	100	.09	10	.9	1.9	UER
		6	312	52.13	19	20.59	155	12.54	9.21	3.4	3.7	29	0	67	.13	7	.8	.9	UER
		6	425	42.76	19	22.76	155	13.94	3.36	2.1	2.4	18	0	89	.10	4	.6	1.4	UER
		6	613	3.29	19	20.33	155	7.22	8.51	1.9	2.4	27	0	97	.10	8	.5	.7	UER
		6	1954	40.30	19	24.26	155	15.93	1.66	1.7	2.3	18	0	114	.08	3	.4	.2	SPC
		7	115	15.92	19	25.71	155	24.43	8.93	2.2	2.5	26	0	62	.12	9	.6	1.3	UKF
		7	1736	58.02	19	17.63	155	21.06	7.68	2.0	2.3	23	0	124	.13	8	.7	1.4	SWR
		7	2124	53.17	19	22.30	155	5.25	7.33	2.1	2.6	23	0	78	.14	8	.9	1.9	MER
		8	154	4.63	19	18.29	155	20.23	8.22	1.7	2.8	26	0	117	.14	6	.8	1.3	SWR
		8	439	19.98	19	20.23	155	9.05	9.34	2.6	3.2	29	0	73	.09	8	.6	.4	UER
		8	1054	22.21	19	8.86	155	17.30	5.48	3.1	3.4	24	0	194	.15	19	1.8	14.7	PPL
		8	2323	11.12	19	22.60	155	6.00	7.69	2.3	2.8	27	0	71	.13	7	.7	1.1	UER

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	REMK
1976	APR	9	1 6	32.97	19	19.03	155	13.46	7.93	2.3	2.7	26	0	73	.11	7	.6	1.1	UER
		9	136	24.79	19	27.17	154	56.16	6.40	2.4	2.8	21	0	165	.14	14	1.3	1.8	LER
		9	1712	22.33	19	22.16	155	12.95	4.92	2.7	3.3	22	0	65	.12	5	.6	.9	UER
		10	127	14.82	19	20.14	155	9.14	8.64	2.2	3.1	25	0	75	.11	8	.7	1.1	UER
		10	232	14.67	19	17.56	155	21.57	6.22	1.7	2.1	27	0	123	.16	9	.9	1.7	SWR
		10	746	25.11	19	20.30	155	8.75	8.04	1.8	2.2	20	0	71	.10	9	.7	1.0	UER
		10	2017	43.32	19	49.03	156	3.76	12.99	2.8	3.2	17	0	239	.18	61	4.8	99.0	KON
		11	337	39.89	19	17.53	155	21.45	7.32	1.7	2.5	25	0	123	.14	9	.9	1.2	SWR
		11	4 2	30.45	19	20.46	155	17.69	8.37	1.5	2.4	20	0	57	.07	5	.5	.8	KOA
		11	548	21.35	19	24.26	155	15.68	3.24	2.3	3.2	23	0	63	.11	2	.6	1.3	SPC
		11	1030	58.17	19	21.34	155	6.49	9.06	2.7	3.1	27	0	86	.10	7	.7	.6	UER
		11	1453	27.55	19	33.95	155	55.92	9.63	2.7	2.2	19	0	226	.17	19	2.4	.6	KON
		11	1535	49.18	19	20.95	155	3.56	5.33	3.4	3.7	26	0	99	.14	10	1.0	.9	MER
		11	1546	4.60	19	20.50	155	9.12	8.74	2.5	3.2	29	0	69	.13	8	.7	.7	UER
		12	5 7	29.25	19	20.83	155	4.70	7.28	2.8	3.3	25	0	103	.12	9	.7	1.1	MER
		12	726	23.45	19	18.94	155	21.56	9.41	3.0	3.5	27	0	103	.12	8	.7	.8	SWR
		12	1157	52.61	19	20.48	155	13.90	8.61	2.0	2.4	24	0	57	.12	6	.7	1.2	UER
		12	2249	37.69	19	20.00	155	8.54	7.86	1.8	2.0	23	0	77	.09	9	.5	1.0	UER
		13	020	.74	19	21.24	155	8.24	7.24	2.1	2.5	19	0	147	.10	10	1.0	1.3	UER
		13	1234	45.95	19	19.38	155	18.92	8.50	2.1	2.6	27	0	55	.14	8	.8	.9	KOA
		13	1652	16.38	19	17.48	155	22.34	2.95	1.7	2.2	23	0	120	.18	8	1.0	3.1	SWR
		14	136	20.53	19	19.25	155	12.03	6.18	2.4	2.7	27	0	95	.11	6	.6	1.2	UER
		14	332	5.75	19	19.47	155	11.88	7.00	2.2	2.6	27	0	92	.14	6	.8	1.4	UER
		14	653	38.79	19	19.49	155	12.21	8.29	2.7	3.1	28	0	88	.12	6	.7	.9	UER
		14	1458	29.19	19	21.10	155	13.12	7.52	2.5	2.6	27	0	57	.14	6	.8	1.1	UER
		14	17 7	1.27	19	16.59	155	12.51	5.07	2.2	2.7	31	0	164	.17	11	1.1	1.0	POL
		14	22 1	36.02	19	27.63	154	53.07	8.16	3.3	3.5	29	0	244	.15	19	2.3	.9	LER
		15	329	14.60	19	21.73	155	2.71	6.30	2.1	2.5	27	0	135	.13	12	.8	1.4	MER
		15	543	26.74	19	21.60	155	.24	5.54	2.4	2.8	30	0	195	.18	12	1.6	1.9	LER
		15	733	5.01	19	22.87	155	14.79	1.21	2.0	2.5	17	0	68	.12	3	.6	.4	UER
		15	749	18.58	19	21.30	155	8.76	9.70	2.3	2.6	27	0	65	.10	8	.7	.3	UER
		15	9 1	7.27	19	19.53	155	19.20	8.49	2.4	2.9	29	0	59	.12	7	.7	.8	SWR
		15	2037	17.75	19	21.03	155	10.74	8.18	2.2	2.5	27	0	69	.14	8	.8	1.2	UER
		15	21 1	9.02	19	16.53	155	28.61	9.24	2.0	2.8	25	0	84	.14	11	.8	1.0	HEA
		15	2247	28.27	19	21.25	155	4.32	6.64	2.0	2.5	21	0	204	.15	16	2.1	1.6	MER
		16	0 1	49.66	19	20.00	155	9.37	8.12		2.3	20	0	198	.12	12	1.2	1.3	UER
		16	2 9	27.95	19	25.44	154	51.26	6.89	2.7	3.0	17	0	285	.04	23	1.5	.3	LER
		16	338	4.17	19	27.09	154	50.31	8.85		2.5	14	0	291	.16	24	7.7	1.4	LER
		16	841	17.26	19	21.58	155	13.09	9.34	2.1	2.6	21	0	147	.11	6	.8	.7	UER
		16	2257	48.23	19	18.99	155	11.59	6.71		1.3	14	0	107	.08	7	.6	1.4	POL
		17	216	.62	19	20.08	155	7.68	9.14	2.6	3.1	29	0	93	.10	8	.6	.5	UER
		17	1732	11.48	19	18.96	155	13.76	8.09	2.1	2.4	23	0	86	.08	7	.6	.8	POL
		18	729	47.96	19	20.92	155	11.75	9.15	2.9	3.2	27	0	69	.10	8	.6	.8	UER
		18	1031	56.74	19	24.10	155	16.03	1.60	2.1	2.5	15	0	111	.09	3	.4	.3	SPC
		18	1350	14.55	19	21.72	155	15.39	8.50	2.1	2.7	25	0	61	.11	4	.6	.9	KOA
		18	1458	16.12	19	23.35	155	14.85	2.13	2.2	2.6	17	0	72	.07	3	.3	3.5	GLN
		18	1858	14.88	19	23.04	155	14.39	3.43	1.7	2.4	16	0	53	.05	3	.3	.8	GLN
		18	2159	22.16	19	24.19	155	16.11	1.76	1.7	2.6	16	0	113	.10	3	.5	.3	SPC

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	REMK
1976	APR	18	2312	14.03	19	21.00	155	13.19	9.17	2.3	3.0	23	0	58	.11	6	.7	1.2	UER
		19	1057	27.25	19	21.32	155	13.24	8.03	1.9	2.4	27	0	55	.13	6	.6	.8	UER
		19	1133	38.07	19	21.78	155	4.39	6.77	2.0	2.6	27	0	88	.14	10	.8	1.1	MER
		19	2029	.96	19	22.68	155	5.95	6.87	1.9	2.5	28	0	72	.17	7	.9	1.4	MER
		19	2241	58.01	19	19.47	155	12.55	7.02	2.1	2.8	30	0	84	.16	7	.8	1.1	UER
		20	144	52.25	19	20.41	155	12.42	7.29	2.6	3.3	29	0	71	.15	7	.8	1.2	UER
		20	311	19.36	19	19.68	155	12.43	7.06	2.1	2.7	29	0	82	.12	6	.6	.9	UER
		20	711	3.11	19	21.70	155	15.25	9.50	3.5	3.7	31	0	60	.11	4	.5	.5	KOA
		20	926	18.62	19	20.41	155	11.88	8.33	2.4	2.6	23	0	75	.12	7	.8	1.5	UER
		20	1511	28.63	19	22.78	155	1.20	6.83	2.4	2.7	23	0	159	.14	10	1.2	1.1	MER
		20	1925	44.68	19	21.26	155	6.34	8.14	1.9	2.5	23	0	89	.12	7	.8	1.4	UER
		20	1934	15.46	19	19.95	155	11.82	7.48	1.7	2.3	26	0	83	.10	6	.6	.9	UER
		21	1423	10.63	19	19.69	155	10.52	7.55	1.8	2.6	25	0	105	.13	7	.9	1.3	UER
		21	1813	34.49	18	47.70	155	.30	49.81	4.6	4.2	22	0	278	.09	63	4.8	9.0	PPL
		22	2 3	38.70	19	22.22	155	5.13	8.27	2.3	2.6	23	0	79	.11	8	.6	1.0	MER
		22	4 5	10.35	19	19.58	155	8.18	6.15	1.9	2.4	23	0	88	.14	9	.9	2.0	UER
		22	554	4.92	19	31.50	155	18.64	11.84	3.4	3.6	32	0	61	.14	15	.8	.3	NER
		22	833	.97	19	18.57	155	20.64	9.76	3.4	3.7	26	0	109	.11	6	.7	.4	SWR
		22	11 5	49.30	19	29.11	155	36.14	11.18	2.2		15	0	103	.13	18	1.3	.5	MOK
		22	2015	14.37	19	21.02	155	6.08	8.86	2.2	2.9	25	0	95	.10	7	.6	.8	UER
		23	145	15.82	19	21.40	155	7.56	6.54	2.2	2.4	24	0	76	.13	8	.8	1.9	UER
		23	336	44.64	19	22.44	155	5.32	9.22	2.3	2.9	23	0	78	.10	8	.7	.9	MER
		23	1229	53.77	19	21.88	155	5.15	8.95	4.2	4.3	28	0	77	.11	8	.7	.6	MER
		23	1851	53.08	19	19.38	155	10.11	8.93	2.7	3.1	31	0	99	.11	7	.6	.5	UER
		24	358	29.49	19	21.85	155	2.57	6.02	2.2	2.6	25	0	139	.13	13	.9	1.3	MER
		24	1754	11.09	19	19.92	155	19.70	8.31	2.3	3.0	26	0	64	.13	6	.6	.8	SWR
		24	2055	31.31	19	20.88	155	11.18	8.14	2.3	2.7	27	0	70	.14	8	.9	1.3	UER
		25	825	21.65	19	19.80	155	15.66	7.12	2.0	2.5	16	0	85	.09	6	.6	1.3	KOA
		25	1449	11.98	19	16.55	155	21.85	6.99	2.3	2.9	25	0	133	.12	8	.8	1.3	SWR
		25	15 3	20.35	19	16.18	155	22.09	8.86	2.8	3.3	25	0	141	.13	8	1.0	1.1	SWR
		25	1632	28.03	19	22.87	155	4.63	7.52	2.3	2.6	26	0	91	.13	9	.7	1.1	MER
		25	1639	58.83	19	23.15	155	3.63	8.53	2.0	2.5	24	0	109	.11	11	.7	.7	MER
		25	1820	24.91	19	21.46	155	3.32	7.04	2.3	2.8	26	0	115	.11	11	.8	.7	MER
		26	637	17.42	19	19.99	155	12.45	8.69	2.2	2.7	25	0	76	.14	6	.9	1.3	UER
		26	8 4	4.58	19	23.32	155	16.87	1.94	1.7	2.7	18	0	54	.10	3	.5	.4	SPC
		26	1142	30.62	19	16.87	155	21.71	7.40	2.2	2.9	27	0	130	.14	9	.9	1.3	SWR
		26	2144	41.56	19	23.26	155	16.96	5.40	3.1	3.8	26	0	44	.10	5	.4	.6	SPC
		27	539	40.27	19	20.12	155	6.68	9.25	2.6	2.9	26	0	110	.10	7	.7	.6	UER
		27	1146	47.28	19	21.30	155	10.72	9.29	2.4	2.8	25	0	68	.11	9	.7	.8	UER
		27	1317	51.64	19	17.03	155	22.50	5.60	2.4	3.0	26	0	124	.19	7	1.1	3.6	SWR
		27	1340	12.13	19	24.37	155	15.72	3.09	2.7	3.4	27	0	84	.13	3	.5	1.3	SPC
		27	2121	24.52	19	24.09	155	15.87	1.57	1.8	2.5	22	0	88	.13	3	.5	.3	SPC
		27	22 3	57.51	19	24.09	155	15.91	1.46	2.0	2.9	16	0	113	.09	3	.4	.2	SPC
		28	259	47.08	19	21.64	155	3.31	6.74	2.3	2.6	26	0	116	.14	11	.9	1.1	MER
		28	322	6.29	19	19.33	155	12.37	7.53	2.2	2.7	28	0	89	.14	7	.8	1.3	UER
		28	1355	2.65	19	19.84	155	7.05	6.22	2.3	2.6	24	0	110	.11	7	.8	1.7	UER
		28	1611	50.88	19	23.69	154	59.17	8.21	2.5	2.5	26	0	177	.14	10	1.5	1.0	LER
		28	2148	17.39	19	20.83	155	7.98	7.53	2.1	2.6	28	0	79	.13	9	.7	1.0	UER

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	REMK
1976	APR	29	130	38.26	19	23.36	155	16.85	3.85	2.5	3.4	30	0	53	.14	3	.6	.8	SPC
		29	1334	51.60	19	25.63	155	16.50	.54	2.2	3.2	22	0	48	.13	4	.6	.5	SPC
		29	14 8	35.88	19	21.65	155	15.33	10.00	2.4	3.0	29	0	61	.12	4	.6	.4	KOA
		30	0 6	51.19	19	24.84	155	23.09	10.42	2.7	3.1	33	0	76	.12	9	.6	.3	UKF
		30	537	36.24	19	25.97	155	16.48	.55	1.0	1.6	8	0	182	.09	4	.7	2.9	SPC
		30	6 5	11.69	19	26.04	155	16.55	.74	1.0		7	0	186	.10	4	1.0	3.0	SPC
		30	1358	36.78	19	20.10	155	7.40	8.53	2.2	2.3	22	0	98	.09	8	.6	.6	UER
		30	14 3	40.66	19	5.42	155	28.55	29.61	2.5		17	0	188	.18	23	2.8	6.5	LSW
		30	1436	25.38	19	17.54	155	22.09	4.89	2.1	2.4	26	0	121	.16	8	.8	1.2	SWR
		30	2143	34.73	19	22.50	155	30.15	9.67	2.3	2.4	28	0	50	.13	13	.7	.5	MOK
		30	2145	23.93	19	21.53	155	.48	6.14	2.6	3.1	28	0	193	.16	12	1.5	1.2	LER
		30	2318	29.50	19	19.31	155	12.38	6.63	1.7	2.1	26	0	89	.12	7	.7	1.5	UER
	MAY	1	024	54.37	19	26.11	154	55.82	7.59	2.3	2.2	25	0	188	.13	15	1.5	1.0	LER
		1	239	15.72	19	25.94	155	24.96	7.55	2.2	2.5	31	0	56	.14	10	.7	1.1	UKF
		1	319	53.57	19	2.40	155	26.89	51.54		1.5	14	0	299	.07	33	8.8	12.8	LSW
		1	322	34.95	19	5.55	155	27.48	56.22		1.7	18	1	191	.14	24	2.9	2.7	LSW
		1	343	31.23	19	20.83	155	4.23	6.79	2.7	3.2	31	0	98	.13	9	.8	.8	MER
		1	357	46.38	19	25.61	154	53.37	9.55		1.6	16	0	238	.13	19	3.1	.6	LER
		1	613	58.83	19	21.63	155	2.89	6.54	2.4	2.6	26	0	130	.11	12	.7	.8	MER
		1	854	1.01	19	18.86	155	13.60	9.45	2.4	3.0	28	0	70	.09	7	.5	.6	POL
		1	921	52.26	19	23.41	155	17.11	1.53		2.8	11	0	58	.06	3	.4	.2	SPC
		1	1437	26.45	19	26.98	154	52.93	8.71	2.3	2.8	24	0	246	.13	20	2.2	.7	LER
		1	1852	4.85	19	18.43	155	23.46	6.63	3.2	4.0	31	0	107	.17	9	.8	1.6	SWR
		1	2115	11.27	19	27.50	154	54.14	8.43	2.3	2.4	21	0	201	.14	18	2.1	.8	LER
		2	2 5	46.14	19	19.98	155	8.11	8.42	2.0	2.4	26	0	86	.13	9	.7	.9	UER
		2	952	8.66	19	21.13	155	10.78	9.05	2.0	2.7	24	0	80	.12	9	.8	.9	UER
		2	2039	1.60	19	7.96	155	30.01	32.22	2.9	2.5	28	0	160	.18	18	1.9	4.4	LSW
		2	2040	57.43	19	6.91	155	31.83	60.13	3.3	2.7	28	0	159	.21	20	4.0	9.8	LSW
		3	156	48.39	19	19.88	155	7.29	9.36	2.5	3.0	28	0	104	.11	8	.8	.5	UER
		3	158	49.07	19	22.40	155	7.01	7.70	2.0	2.8	27	0	67	.13	9	.7	1.1	UER
		3	7 8	12.59	19	22.35	155	.97	7.30	2.6	2.8	27	0	169	.15	11	1.2	1.0	LER
		3	1120	58.36	19	20.08	155	12.74	6.95	2.5	3.0	29	0	72	.16	7	.8	1.6	UER
		3	15 5	28.83	19	18.06	155	16.15	7.60	1.8	2.5	30	0	120	.13	5	.8	1.1	KOA
		4	1816	37.44	19	19.57	155	13.45	9.21	2.4	2.9	30	0	67	.13	7	.8	1.0	UER
		5	515	4.76	19	13.22	155	28.50	10.30	2.4	2.8	28	0	139	.16	16	1.2	.5	LSW
		5	10 6	53.96	19	27.01	155	23.55	8.61	2.3	2.5	30	0	75	.14	11	.7	1.4	UKF
		5	1832	20.28	19	24.14	155	15.99	1.53	2.2	3.1	25	0	88	.11	3	.4	.2	SPC
		5	2317	51.14	19	56.20	155	21.18	30.32	2.4	2.4	39	4	192	.19	37	1.0	1.4	KKU
		5	2326	14.79	19	21.04	155	8.58	6.43	2.9	3.4	31	0	69	.13	8	.7	1.3	UER
		6	026	16.34	19	23.28	155	3.96	8.65	2.7	3.1	33	0	103	.12	11	.7	.5	MER
		6	027	29.35	19	23.11	155	3.58	8.38	2.9	3.4	31	0	110	.10	11	.6	.6	MER
		6	4 3	5.18	19	19.62	155	10.79	8.44	2.1	2.6	31	0	94	.12	7	.7	1.0	UER
		6	17 2	48.21	19	19.29	155	16.45	8.96	2.6	2.9	28	0	99	.11	6	.7	.8	KOA
		6	2010	4.50	19	21.02	155	8.90	8.50	2.0	2.4	27	0	65	.14	8	.8	1.0	UER
		7	2136	16.96	19	20.57	155	7.12	9.34	2.6	3.0	25	0	94	.10	7	.7	.5	UER
		8	727	16.08	19	23.44	155	16.88	2.07	2.2	3.2	29	0	66	.17	3	.7	1.6	SPC
		8	8 6	20.25	19	17.43	155	21.31	6.26	2.6	3.1	27	0	131	.16	8	1.0	2.2	SWR
		9	241	7.80	19	23.37	155	15.07	4.90	2.3	2.9	26	0	55	.11	3	.6	.6	SPC

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	REMK
1976	MAY	9	614	43.37	19	21.55	155	7.95	9.72	3.4	3.6	30	0	71	.08	9	.5	.3	UER
		9	838	17.08	19	17.60	155	21.67	5.50	2.3	2.3	29	0	122	.15	9	.8	1.1	SWR
		10	827	4.45	19	23.27	155	4.48	7.73	3.5	3.6	32	0	94	.12	10	.5	.8	MER
		10	935	5.64	19	23.79	155	2.76	8.33	2.4	2.5	26	0	122	.10	10	.7	.6	MER
		11	822	40.20	19	18.15	155	15.68	9.24	2.1	2.6	26	0	165	.11	8	.9	.9	KOA
		11	919	43.50	19	20.39	155	7.10	9.47	2.9	3.1	26	0	98	.08	7	.6	.4	UER
		12	555	11.56	19	20.33	155	11.66	9.26	3.7	4.2	31	0	77	.10	7	.6	.7	UER
		12	931	3.08	19	24.05	155	28.01	9.63	2.2	2.6	26	0	53	.12	13	.8	.4	UKF
		12	11 6	21.18	19	24.16	155	15.76	3.63	2.2	2.9	20	0	108	.09	3	.5	1.0	SPC
		12	19 6	51.79	19	19.72	155	11.96	6.59	1.7	2.2	20	0	86	.12	6	.8	1.8	UER
		12	2241	17.13	19	23.27	155	17.15	1.64	1.7	2.3	17	0	56	.11	3	.6	.3	SPC
		13	054	19.59	19	19.42	155	12.43	7.06	1.7	2.2	26	0	86	.13	7	.8	1.3	UER
		13	2 7	29.38	19	19.18	155	12.51	8.40	2.3	2.6	28	0	90	.12	7	.8	1.0	UER
		13	635	36.89	19	21.44	155	7.41	7.77	2.2	2.5	25	0	77	.11	8	.7	1.0	UER
		13	638	10.77	19	21.20	155	7.40	8.22	2.2	2.6	25	0	81	.09	8	.6	.8	UER
		13	919	21.08	19	21.31	155	3.32	7.03	2.7	3.1	25	0	114	.10	11	.8	.7	MER
		13	1141	.27	19	26.58	154	53.05	9.46	2.8	3.1	25	0	243	.10	20	1.6	.5	LER
		13	1435	42.54	19	18.82	155	11.48	7.86	1.8	1.8	17	0	113	.08	7	.6	1.4	POL
		13	1445	49.95	19	23.70	155	16.67	1.74	2.2	3.0	15	0	77	.09	3	.5	.3	SPC
		13	2313	46.61	19	17.66	155	21.40	5.78	1.9	2.5	21	0	128	.16	8	1.0	2.7	SWR
		13	2315	32.50	19	17.21	155	21.25	6.67	1.7	2.1	19	0	133	.12	9	1.0	1.9	SWR
		14	225	38.07	19	25.68	154	55.87	6.40	2.1	2.0	17	0	193	.13	15	2.1	3.2	LER
		14	544	42.18	19	22.19	155	6.27	6.83	2.4	2.7	24	0	72	.12	7	.7	1.1	UER
		14	652	35.93	19	20.15	155	5.03	5.60	2.0	2.2	24	0	128	.12	8	.7	1.3	MER
		14	815	43.80	19	22.72	154	59.26	6.26	2.2	2.5	24	0	189	.11	9	1.2	1.0	LER
		14	912	42.17	19	17.38	155	30.51	9.56	3.1	3.2	28	0	100	.14	13	.9	.6	HEA
		14	1950	4.15	19	19.99	155	9.16	8.73	2.0	2.5	27	0	78	.09	8	.6	.7	UER
		15	454	26.32	19	19.62	155	11.49	7.21	1.7	2.1	25	0	92	.13	6	.8	1.5	UER
		15	646	.77	19	20.42	155	7.73	7.33	2.0	2.4	22	0	87	.10	8	.7	1.4	UER
		15	740	51.48	19	19.91	155	12.13	7.45	2.5	2.8	28	0	81	.10	6	.6	1.0	UER
		15	744	1.63	19	26.74	154	52.76	3.63	2.4	2.5	19	3	259	.18	20	1.7	1.7	LER
		15	850	2.45	19	22.38	155	12.98	3.14	2.1	2.4	21	0	53	.12	5	.6	1.2	UER
		15	14 9	19.99	19	22.99	155	30.24	8.89	2.4	2.4	26	0	45	.14	13	.7	1.1	MOK
		15	1444	.76	19	19.59	155	11.08	8.21	1.9	2.3	27	0	95	.13	7	.8	1.3	UER
		15	1846	23.74	19	20.02	155	8.57	7.56	2.1	2.2	25	0	76	.11	9	.7	1.1	UER
		15	1910	31.63	19	21.99	155	6.68	7.52	2.2	2.6	21	0	74	.10	8	.6	1.0	UER
		15	2139	58.45	19	25.77	155	16.76	4.02	2.6	3.3	31	0	67	.18	5	.7	1.5	SPC
		15	2150	24.66	19	23.83	155	16.84	1.19	2.0	2.7	18	0	71	.12	3	.6	.4	SPC
		16	324	19.34	19	24.19	155	16.06	1.67	1.3	2.2	14	0	124	.07	3	.4	.3	SPC
		16	328	57.68	19	21.60	155	7.59	8.15	2.4	3.0	29	0	74	.09	8	.5	.6	UER
		16	4 7	9.40	19	27.24	155	14.62	31.65	2.3	2.4	35	0	52	.11	8	.8	1.8	DEP
		16	436	33.24	19	24.15	155	15.79	1.78	1.8	2.6	18	0	88	.10	3	.5	.4	SPC
		16	926	39.90	19	27.69	155	14.13	23.57	2.1	1.9	32	0	53	.11	9	.8	1.7	DEP
		16	1239	20.42	19	19.96	155	16.10	7.86	1.5	2.0	27	0	87	.11	6	.6	1.0	KOA
		16	15 6	29.40	19	24.03	155	16.18	1.81	1.7	2.5	13	0	133	.08	3	.7	.4	SPC
		16	1542	42.10	19	23.25	155	14.38	4.43	2.0	2.4	24	0	45	.14	3	.7	1.0	GLN
		16	16 8	38.64	19	21.08	155	2.45	5.55	2.1	2.2	24	0	153	.19	12	1.3	1.6	MER
		16	1915	34.97	19	20.16	155	11.78	7.21	1.7	2.0	28	0	79	.16	7	.9	1.5	UER

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	REMK
1976	MAY	16	2153	5.05	19	24.57	155	29.29	9.23	2.4	2.2	28	0	54	.12	13	.6	.9	UKF
		16	2222	9.13	19	20.23	155	7.29	8.19	2.2	2.7	27	0	98	.11	8	.6	.7	UER
		17	125	7.07	19	19.91	155	12.19	6.37	1.6	1.8	29	0	80	.16	6	.9	1.6	UER
		17	145	6.09	19	19.78	155	16.26	9.60	3.6	3.8	32	0	91	.09	5	.5	.4	KOA
		17	2 7	51.71	19	29.44	154	50.99	7.04		1.9	22	0	269	.19	22	4.9	1.3	LER
		17	627	30.37	19	22.69	155	6.25	8.12	2.6	3.0	29	0	68	.12	8	.6	.8	UER
		17	847	17.06	19	27.52	154	54.51	5.57	2.3	2.7	26	0	189	.15	17	1.7	1.0	LER
		17	953	41.08	19	17.90	155	21.21	7.60	2.1	2.5	27	0	120	.14	8	.8	1.2	SWR
		17	10 9	24.15	19	19.65	155	6.57	8.10	2.2	2.3	24	0	124	.12	7	.9	.6	UER
		17	1016	34.64	19	19.48	155	12.27	6.63	2.0	2.1	27	0	87	.12	6	.7	1.2	UER
		17	1759	16.67	19	23.76	155	16.68	6.86	1.8	2.8	13	0	65	.19	3	1.6	2.0	LPC
		17	1840	32.47	19	25.27	154	56.03	6.60		2.1	25	0	196	.13	14	1.6	1.1	LER
		17	2054	49.19	19	19.66	155	8.60	9.51	3.0	3.6	28	0	78	.09	10	.6	.2	UER
		17	2136	18.60	19	20.42	155	4.64	7.41	3.1	3.4	30	0	118	.12	8	.8	.6	MER
		18	121	41.29	19	19.35	155	13.64	7.78	2.2	2.5	30	0	66	.15	7	.8	1.2	UER
		18	520	58.16	19	22.16	155	12.97	6.96	2.5	3.2	29	0	55	.09	5	.4	.8	UER
		18	616	41.31	19	19.76	155	7.48	8.63	3.5	4.0	32	0	102	.12	8	.8	.6	UER
		18	7 5	6.62	19	9.08	155	24.41	39.27		1.1	17	0	225	.09	21	3.9	6.9	LSW
		18	1044	56.03	19	19.39	155	11.43	5.96	2.0	2.2	28	0	97	.15	7	.9	1.8	UER
		18	1348	50.13	19	21.84	155	17.85	24.01	2.0	1.8	28	0	58	.08	4	.7	1.2	DEP
		18	1410	58.49	19	19.45	155	15.87	9.91	2.4	2.8	30	0	91	.10	6	.6	.3	KOA
		18	1455	20.13	19	24.04	155	26.93	9.31	2.2	2.4	30	0	49	.12	12	.6	.8	UKF
		18	1540	51.26	19	18.99	155	13.59	6.99	2.0	2.1	26	0	70	.13	7	.8	1.5	POL
		18	1824	17.92	19	20.14	155	8.46	7.33	2.2	2.5	19	0	78	.11	9	.8	1.8	UER
		18	22 2	.51	18	38.95	155	4.49	28.60		1.6	25	2	289	.13	72	4.1	20.3	PPL
		18	2244	35.55	19	19.97	154	58.58	9.97	2.5	2.7	30	0	221	.15	14	2.2	.5	DIS
		18	2246	47.68	19	20.09	155	6.72	8.33	2.2	2.4	28	0	110	.10	7	.7	.5	UER
		18	2347	52.55	19	58.52	155	18.64	7.29	2.8	2.1	22	0	256	.17	42	5.4	1.0	KKU
		19	132	20.99	19	26.26	155	29.92	8.22	2.1	2.0	30	0	67	.16	11	.8	1.6	UKF
		19	4 0	11.21	19	27.20	155	29.29	9.30	2.5	2.6	32	0	60	.15	12	.7	1.3	UKF
		19	1114	1.65	19	22.82	155	2.08	7.34	2.5	3.0	29	0	142	.13	11	.9	.8	MER
		19	1456	16.55	19	24.40	155	15.84	2.27	1.9	2.7	21	0	110	.14	3	.7	2.7	SPC
		19	1712	5.53	19	19.80	155	7.74	9.29	3.8	4.1	31	0	96	.12	8	.8	.6	UER
		19	1727	4.61	19	19.29	155	12.09	8.53	2.5	2.9	31	0	94	.14	6	.8	.9	UER
		19	1756	8.15	19	19.20	155	12.29	8.81	2.5	3.0	32	0	93	.12	7	.7	.7	UER
		19	1839	26.53	19	27.11	154	53.46	8.63	2.6	2.8	27	0	229	.11	19	1.6	.5	LER
		19	2314	36.30	19	20.49	155	11.88	7.06	2.0	2.6	30	0	73	.16	7	.9	1.4	UER
		20	221	7.08	19	29.43	155	53.81	10.41	2.8	2.3	29	2	202	.24	25	2.6	.7	KON
		20	420	50.43	19	22.26	155	13.18	2.89	1.7	2.0	26	0	48	.13	5	.6	1.2	UER
		20	542	41.62	19	23.17	155	14.48	4.98	2.3	2.8	26	0	50	.10	3	.4	.5	GLN
		20	6 2	54.81	19	24.46	155	26.62	8.49	1.8	1.9	28	0	50	.14	11	.7	2.0	UKF
		20	631	25.44	19	23.20	155	14.94	1.80	1.6	2.3	17	0	70	.09	3	.4	.5	GLN
		20	7 8	3.24	19	20.20	155	13.36	7.90	1.6	1.9	26	0	64	.11	6	.6	.9	UER
		20	1418	3.31	19	21.29	155	3.07	7.21	2.5	2.9	27	0	124	.13	11	1.0	.7	MER
		20	19 9	57.38	19	20.61	155	5.86	8.13	2.6	3.1	31	0	107	.11	7	.7	.5	MER
		20	1917	42.81	19	21.67	155	4.98	5.52		2.1	26	0	81	.16	9	.9	1.6	MER
		20	20 9	28.08	19	20.44	155	11.64	8.99	2.2	2.6	31	0	76	.16	7	.8	.9	UER
		20	2142	50.87	19	21.39	155	2.41	6.34	2.1	2.5	30	0	149	.17	12	1.0	1.2	MER

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	REMK
1976	MAY	20	2313	38.38	19	20.68	155	6.73	8.32	2.2	2.6	28	0	97	.10	7	.5	.6	UER
		21	653	37.22	19	19.53	155	12.32	6.67	1.7	2.3	28	0	86	.17	6	1.0	1.6	UER
		21	757	23.93	19	18.16	155	16.91	3.22	2.0	2.6	25	0	121	.20	6	1.2	2.1	KOA
		21	932	40.61	19	18.18	155	16.62	5.16	2.2	2.8	24	0	118	.13	6	.7	.8	KOA
		21	1439	48.98	19	21.19	155	48.03	11.24	3.1	2.8	27	0	136	.17	18	1.3	.6	KON
		21	1722	20.28	19	20.66	155	9.09	7.61	1.8	2.2	28	0	67	.15	8	.8	1.2	UER
		21	1949	27.92	19	20.26	155	8.90	7.57	1.8	2.3	30	0	70	.16	9	.8	1.2	UER
		21	1953	9.83	19	21.08	155	6.06	9.27	3.2	3.5	31	0	94	.11	7	.8	.5	UER
		22	234	3.72	19	19.83	155	7.44	8.14	1.9	2.4	29	0	102	.10	8	.6	.5	UER
		22	253	55.36	19	23.69	154	58.91	6.21	2.2	2.3	27	0	180	.21	10	1.9	1.6	LER
		22	15 5	17.18	19	20.67	155	9.17	8.03	1.8	2.1	27	0	67	.14	8	.9	1.0	UER
		22	1852	8.44	19	21.68	155	15.11	10.51	3.7	4.0	31	0	60	.09	4	.5	.2	KOA
		22	2218	2.64	19	19.62	155	10.46	8.83	1.9	2.4	30	0	94	.13	7	.6	.7	UER
		22	2234	32.49	19	20.62	155	7.60	8.08	2.0	2.5	26	0	87	.14	8	.8	.8	UER
		23	427	55.52	19	28.66	155	23.60	6.82	2.1	2.0	25	0	71	.16	13	.9	1.9	UKF
		23	449	33.07	19	20.42	155	4.25	7.73	2.0	2.6	31	0	116	.11	9	.9	.6	MER
		23	557	57.33	19	18.06	155	16.88	9.64	2.4	3.1	31	0	121	.12	6	.6	.6	KOA
		23	831	48.93	19	27.69	154	52.51	9.27	2.4	2.4	24	0	263	.13	20	2.3	.8	LER
		23	1311	13.83	19	22.06	155	6.12	6.09	1.9	2.6	28	0	75	.15	7	.9	1.7	UER
		23	1731	20.18	19	20.44	155	6.81	9.38	4.0	4.0	31	0	101	.11	7	.8	.5	UER
		23	1734	59.58	19	20.79	155	11.62	7.74	2.6	2.7	22	0	152	.18	8	1.4	1.3	UER
		23	18 3	25.75	19	20.49	155	6.72	7.74	1.9	2.2	26	0	101	.12	7	.7	.8	UER
		23	2324	7.63	20	54.93	156	23.40	49.09	4.3	4.2	34	2	206	.14	169	3.2	1.6	DIS
		24	121	50.68	19	21.00	155	13.47	9.72	1.6	2.2	28	0	55	.13	7	.8	.7	UER
		24	244	4.17	19	20.56	155	8.09	7.71	2.1	2.6	29	0	80	.14	9	.7	1.0	UER
		24	546	55.74	19	21.12	155	13.49	9.67	2.0	2.4	29	0	54	.13	7	.7	.5	UER
		24	816	57.79	19	24.34	155	19.58	12.20	2.0	2.0	30	0	45	.11	5	.8	.3	UKF
		24	1130	17.52	19	19.15	155	11.82	6.95	1.7	2.1	27	0	100	.13	7	.8	1.4	UER
		24	1234	49.03	19	6.27	155	28.08	23.18		1.8	24	4	185	.13	25	1.2	2.7	LSW
		24	1641	.12	19	24.02	155	15.79	1.50	1.5	2.5	15	0	112	.11	5	.5	.3	SPC
		25	531	34.45	19	21.53	155	7.44	8.14	2.6	3.0	30	0	76	.12	8	.6	.7	UER
		25	731	17.19	19	21.69	155	17.10	31.71	2.7	2.3	33	0	47	.09	3	.7	1.4	DEP
		25	949	57.32	19	28.07	154	54.58	5.44		2.0	23	0	171	.15	17	1.8	1.0	LER
		25	2113	38.98	19	21.94	155	2.03	6.09	2.1	2.2	29	0	153	.14	12	.9	1.2	MER
		25	2146	49.04	19	21.10	155	13.21	8.70	1.6	2.1	27	0	57	.14	6	.8	1.2	UER
		26	2 6	9.27	19	24.07	155	15.88	1.56	1.3	2.0	14	0	113	.13	5	.6	.4	SPC
		26	650	54.40	19	20.59	155	4.29	5.19	2.0	1.9	27	0	109	.18	9	1.4	1.1	MER
		26	8 5	30.60	19	19.65	155	7.54	9.03	1.9	2.2	28	0	103	.15	8	1.2	.9	UER
		26	830	16.42	19	23.41	155	17.31	1.47	1.8	2.5	14	0	55	.08	3	.5	.3	SPC
		26	1138	4.28	19	21.75	155	6.42	6.85	2.0	2.2	27	0	83	.14	7	.8	1.2	UER
		26	1312	49.61	19	21.82	155	6.30	6.55	1.9	2.0	26	0	78	.13	7	.8	1.2	UER
		26	1413	58.67	19	19.27	155	13.93	5.95	2.1	2.0	26	0	65	.15	6	.9	1.6	UER
		26	16 3	34.91	19	19.83	155	11.02	8.34	2.3	2.6	28	0	89	.13	7	.8	1.1	UER
		26	1738	12.45	19	19.61	155	8.16	9.10	2.7	3.2	29	0	88	.09	9	.6	.5	UER
		26	1948	.19	19	19.86	155	8.74	8.40	2.2	2.4	28	0	74	.10	9	.6	.6	UER
		26	2233	7.53	19	25.98	155	24.14	9.11	3.1	3.2	31	0	66	.13	9	.6	1.1	UKF
		26	2238	9.00	19	19.93	155	7.70	7.59	1.9	2.4	28	0	95	.13	8	.7	.7	UER
		26	2240	54.28	19	20.21	155	7.61	6.83	1.9	2.2	29	0	93	.14	8	.8	1.3	UER

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	REMK
1976	MAY	26	2347	5.78	19	17.33	155	15.82	9.75	2.1	2.6	30	0	133	.13	6	.9	.3	KOA
		27	022	54.32	19	22.12	155	17.92	4.77	1.8	2.2	15	0	82	.13	4	.8	1.2	KOA
		27	026	.69	19	23.76	155	29.81	9.34	1.9	2.0	27	0	50	.12	13	.6	.9	UKF
		27	250	24.48	19	23.68	155	16.92	2.71	1.8	2.4	19	0	66	.11	3	.6	1.3	SPC
		27	337	33.64	19	20.19	155	7.21	8.24	2.1	2.1	28	0	100	.14	8	.8	1.0	UER
		27	1349	9.15	19	19.23	155	11.66	6.87	1.9	2.0	26	0	100	.12	7	.7	1.2	UER
		27	1357	40.84	19	23.27	155	30.48	9.93	2.9	3.1	32	0	59	.14	13	.7	.4	MOK
		27	1816	44.71	19	24.66	154	59.46	6.58	2.3	2.5	26	0	198	.15	11	1.6	1.1	LER
		27	1921	31.12	19	27.28	154	53.30	9.49	2.6	2.8	29	0	234	.11	19	1.6	.6	LER
		27	1951	9.49	19	27.45	154	55.91	7.26	2.3	2.6	26	0	163	.15	15	1.5	.8	LER
		27	23 7	53.47	19	19.57	155	12.33	5.63	1.6	2.1	31	0	85	.18	6	.9	1.8	UER
		28	050	32.59	19	16.97	155	22.77	6.01	1.8	2.2	27	0	123	.19	7	1.1	2.4	SWR
		28	337	3.05	19	28.46	154	54.68	5.74	2.3	2.3	24	0	152	.15	16	1.6	1.1	LER
		28	719	23.27	19	24.04	155	15.67	1.50	1.6	2.3	18	0	113	.13	3	.6	.4	SPC
		28	12 8	45.51	19	23.03	155	4.84	8.11	3.3	3.7	26	0	98	.09	9	.5	.6	MER
		28	14 1	19.91	19	22.10	155	6.72	9.25	2.4	2.6	24	0	72	.11	8	.8	.5	UER
		28	1455	32.92	19	20.39	155	7.90	9.39	2.3	2.7	24	0	85	.13	9	.9	.7	UER
		28	1622	4.15	19	24.10	155	15.88	2.51	1.9	2.1	17	0	108	.11	3	.6	2.0	SPC
		28	1812	19.28	19	20.09	155	8.17	8.80	2.5	2.7	22	0	83	.09	9	.6	.6	UER
		28	1958	46.27	19	21.67	155	3.11	6.47	2.6	3.0	26	0	122	.11	12	.5	.8	MER
		28	2320	36.62	19	23.27	155	17.00	2.94	2.3	3.2	23	0	57	.13	3	.6	1.3	SPC
		29	129	29.39	19	22.76	155	4.85	8.69	2.7	3.1	29	0	87	.12	9	.8	.6	MER
		29	311	39.48	19	21.99	155	6.31	7.24	1.9	2.1	25	0	76	.12	7	.6	.8	UER
		29	1220	55.60	19	23.63	155	16.90	1.73	1.5	2.1	9	0	107	.08	3	.7	.3	SPC
		29	1714	42.83	19	22.12	155	13.21	1.93	1.7	2.0	10	0	140	.06	5	.7	.3	UER
		29	1727	25.32	19	19.94	155	12.09	7.27	2.1	2.4	15	0	190	.08	8	1.0	2.0	UER
		29	1858	6.45	19	19.42	155	12.45	7.46	2.0	2.3	14	0	213	.07	8	1.1	2.1	UER
		29	1927	51.16	19	24.89	155	16.12	13.45	2.8	2.9	16	0	134	.08	3	.9	1.0	DEP
		29	1950	24.64	19	20.32	155	6.60	8.26	2.2	2.6	27	0	106	.09	7	.7	.4	UER
		30	1010	9.71	19	23.21	155	14.66	5.06	2.5	2.7	26	0	46	.09	3	.4	.5	GLN
		30	11 2	26.73	19	22.14	155	13.14	5.89	2.3	2.9	24	0	72	.11	6	.6	1.2	UER
		30	1131	14.78	19	21.91	155	12.92	2.04	1.7	1.8	22	0	59	.09	5	.4	2.3	UER
		30	1229	9.53	19	23.32	155	14.97	3.28	1.9	2.2	20	0	70	.13	3	.7	1.6	GLN
		30	1632	32.58	19	20.23	155	6.30	9.42	2.6	3.4	26	0	80	.11	9	.8	.5	UER
		30	17 4	38.84	19	23.06	155	4.73	7.54	2.7	3.2	29	0	90	.12	9	.6	.8	MER
		30	1743	16.73	19	18.85	155	15.03	7.97	1.6	2.0	26	0	92	.11	7	.7	1.0	KOA
		30	19 7	53.92	19	22.76	155	24.66	11.21	1.9	2.4	26	0	59	.09	9	.6	.3	UKF
		30	1944	28.24	19	23.42	155	14.75	2.45	1.8	2.2	19	0	66	.11	3	.6	2.2	GLN
		30	2022	58.31	19	19.76	155	11.92	7.25	2.0	2.2	27	0	86	.12	6	.7	1.0	UER
		30	2051	24.01	19	17.83	155	21.41	7.80	1.7	2.1	21	0	127	.13	8	1.0	1.5	SWR
		31	146	3.02	19	27.38	154	52.62	8.78	2.4	2.6	24	0	263	.16	21	4.9	1.0	LER
		31	410	51.23	19	23.56	155	17.10	2.67	2.0	2.8	24	0	58	.15	3	.7	1.5	SPC
		31	431	57.01	19	23.92	155	17.00	2.44	1.3	2.0	16	0	63	.14	3	.8	2.0	SPC
		31	627	21.09	20	14.77	155	53.55	31.66	3.6	3.3	9	0	303	.04	70	5.8	9.7	KOH
		31	744	31.69	19	23.67	155	17.11	3.69	2.6	3.4	25	0	58	.13	3	.6	1.1	SPC
		31	748	59.15	19	23.63	155	17.17	1.88	1.4	2.3	15	0	55	.13	3	.7	.4	SPC
		31	831	51.29	20	4.95	155	44.97	17.16	2.9		22	0	149	.18	60	7.6	13.2	KOH
		31	832	9.99	20	15.86	155	46.17	2.68	4.1	3.9	6	2	175	.07	75	10.1	5.6	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	REMK
1976	MAY	31	839	2.57	19	21.14	155	11.72	8.59	2.4	2.5	31	0	65	.13	8	.7	.7	UER
		31	853	52.70	20	8.80	155	48.76	28.95	3.0	2.1	18	2	296	.18	55	16.0	17.6	KOH
		31	955	50.30	20	6.84	155	47.98	24.61	3.0	2.7	22	3	137	.23	54	2.2	3.4	KOH
		31	1036	53.76	20	8.17	155	45.75	22.80	2.9	1.8	21	0	158	.10	52	2.6	3.2	KOH
		31	1155	13.56	19	18.28	155	21.71	6.10	1.8	1.9	29	0	115	.18	8	1.0	2.5	SWR
		31	1156	46.16	19	19.68	155	12.10	7.07	1.7	2.0	25	0	85	.12	6	.7	1.3	UER
		31	1713	23.66	19	20.96	155	13.37	8.79	2.2	2.5	30	0	56	.13	6	.7	1.0	UER
		31	1748	42.42	19	17.68	155	21.96	6.98	2.3	2.7	31	0	120	.19	9	1.0	1.9	SWR
		31	1750	40.98	19	23.76	155	17.01	2.64	1.7	2.1	19	0	62	.10	3	.5	1.3	SPC
		31	1921	7.38	19	23.83	155	16.85	3.64	2.2	2.5	24	0	70	.13	3	.6	1.0	SPC
	JUN	1	5 8	35.86	19	19.96	155	8.48	8.38	2.2	2.3	27	0	79	.09	9	.5	.5	UER
		1	10 2	22.18	19	20.11	155	11.53	9.01	2.9	3.4	26	0	82	.10	8	.5	.6	UER
		1	1317	55.15	19	20.91	155	11.47	9.06	2.8	2.8	30	0	69	.11	8	.5	.6	UER
		1	1343	15.00	19	27.56	154	51.91	9.36	2.6	2.5	20	0	266	.11	21	2.3	.7	LER
		1	1616	16.40	19	41.36	155	2.92	2.31	3.0	3.2	29	0	198	.17	28	1.4	2.5	HIL
		1	1628	53.28	19	19.38	155	19.19	8.20	1.7	1.8	29	0	60	.12	7	.7	1.0	SWR
		1	1635	23.71	19	20.26	155	7.80	9.56	2.7	3.2	31	0	88	.11	9	.8	.3	UER
		1	1923	8.13	19	21.88	155	4.98	7.32	2.0	2.1	27	0	89	.15	9	.9	1.2	MER
		1	2026	24.27	19	27.14	155	23.06	8.97	2.6	2.3	31	0	85	.13	11	.6	1.2	UKF
		2	339	47.11	19	19.81	155	15.27	7.68	2.0	2.1	29	0	81	.12	6	.7	1.0	KOA
		2	353	38.16	19	22.14	155	.28	6.00	2.4	2.1	27	0	212	.12	11	1.4	1.0	LER
		2	851	36.92	19	25.97	154	55.43	7.57		2.2	23	0	250	.13	17	3.1	1.3	LER
		2	1514	25.55	19	23.90	155	15.26	3.82	2.2	2.6	22	0	95	.12	3	.7	1.1	SPC
		2	2150	50.79	19	19.78	155	22.06	4.60	1.9	2.3	25	0	89	.13	8	.6	1.2	SWR
		3	0 4	50.43	19	20.02	155	13.69	7.05	2.1	2.4	29	0	60	.15	6	.8	1.1	UER
		3	2 1	11.72	19	20.06	155	3.97	7.48	2.7	3.1	29	0	135	.11	9	.9	.6	MER
		3	7 6	50.18	19	19.67	155	11.76	6.82	1.7	2.0	27	0	89	.17	6	1.0	1.8	UER
		3	922	35.52	19	20.98	155	10.75	9.24	2.2	2.5	25	0	69	.08	8	.5	.6	UER
		3	945	28.07	19	19.80	155	13.88	7.91	2.3	2.7	27	0	60	.14	6	.8	1.1	UER
		3	1115	35.44	19	17.71	155	19.96	9.56	2.4	3.1	30	0	126	.10	7	.6	.5	SWR
		3	1525	42.50	19	20.24	155	7.27	9.41	2.2	2.6	25	0	98	.09	8	.7	.5	UER
		3	1845	24.60	19	19.76	155	25.32	8.27	1.8	2.2	29	0	87	.18	7	1.0	1.5	HEA
		3	2038	53.35	19	26.63	154	51.90	8.94	2.4	2.3	29	0	268	.14	22	2.5	.8	LER
		3	23 5	23.47	19	22.17	155	25.12	9.38	2.2	2.3	34	0	53	.14	10	.6	.7	UKF
		4	3 7	22.72	19	21.38	155	13.41	7.90	1.7	2.3	31	0	53	.15	6	.8	1.0	UER
		4	446	13.06	19	22.00	155	1.12	5.38	2.1	2.4	29	0	173	.14	12	1.1	.8	MER
		4	545	12.13	19	24.23	155	15.57	1.40	1.5	2.2	18	0	115	.16	3	.8	.5	SPC
		4	723	12.36	19	17.65	155	21.35	7.47	2.3	2.6	30	0	122	.15	8	.8	1.6	SWR
		4	1031	10.64	19	19.37	155	12.09	6.54	2.2	2.5	30	0	92	.16	6	.9	1.5	UER
		4	1419	44.77	19	21.53	155	7.78	8.40	2.1	2.3	26	0	73	.10	8	.6	.8	UER
		4	1427	46.90	19	15.49	155	24.96	34.08	2.9	2.6	34	0	121	.12	12	1.0	2.2	LSW
		4	15 3	3.14	19	4.72	155	21.43	30.41		1.1	28	0	203	.09	25	1.3	2.5	LSW
		4	1535	30.87	19	15.41	155	24.93	33.07		1.1	28	0	122	.10	12	1.1	2.4	LSW
		4	1832	38.81	19	20.24	155	8.47	9.21	2.8	3.4	30	0	77	.10	9	.7	.5	UER
		4	2250	51.27	19	21.54	155	7.10	9.37	4.1	4.4	32	0	78	.12	8	.7	.5	UER
		4	2343	15.42	19	21.39	155	7.98	9.53	2.9	3.2	27	0	72	.11	9	.7	.4	UER
		4	2348	4.12	19	25.22	155	24.65	9.22	2.3	2.7	33	0	60	.14	9	.6	1.0	UKF
		5	142	44.34	19	19.90	155	6.55	8.42	2.2	2.5	28	0	118	.10	7	.7	.5	UER

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	REMK
1976	JUN	5	247	2.62	19	21.34	155	7.95	7.89	1.8	2.0	26	0	73	.14	9	.8	1.0	UER
		5	1056	54.18	19	20.12	155	11.51	7.81	2.0	2.0	24	0	82	.10	7	.6	1.0	UER
		5	1118	20.99	19	21.59	155	7.40	8.05	2.2	2.4	27	0	75	.12	8	.6	.9	UER
		5	1344	44.20	19	25.52	155	16.52	.46	1.6	2.5	18	0	117	.13	4	.7	.5	SPC
		5	14 4	2.03	19	25.51	155	16.43	.32	1.0	2.1	13	0	169	.18	4	1.5	1.0	SPC
		5	17 0	54.97	19	17.89	155	16.87	9.01	1.7	2.2	31	0	124	.13	6	.7	.9	KOA
		5	1752	22.73	19	19.70	155	11.79	7.18	2.0	2.4	29	0	88	.13	6	.7	1.2	UER
		5	2046	5.20	19	3.73	155	27.66	45.20	2.6		23	2	201	.11	23	2.1	1.4	LSW
		5	2138	30.53	19	20.50	155	4.09	6.45	2.5	3.0	28	0	111	.15	9	.9	1.2	MER
		6	037	20.02	19	24.33	155	14.75	3.28	1.6	2.3	21	0	97	.14	4	.8	1.2	GLN
		6	343	14.87	19	19.33	155	16.37	9.52	3.1	3.4	32	0	98	.08	6	.4	.3	KOA
		6	5 0	54.19	19	19.34	155	11.88	6.82	1.7	1.9	29	0	95	.13	6	.7	1.3	UER
		6	913	19.19	19	20.57	155	12.87	8.43	2.8	2.2	22	0	64	.13	7	.8	1.1	UER
		6	1714	3.95	19	21.46	155	6.60	7.60	2.2	2.4	31	0	83	.12	7	.6	.8	UER
		6	1928	59.14	19	20.29	155	17.04	30.88	2.3	2.1	31	0	79	.09	5	.8	1.5	DEP
		7	719	47.08	19	18.52	155	13.32	8.05	2.1	2.3	27	0	103	.15	8	1.1	1.5	POL
		7	1039	37.57	19	19.15	155	15.64	31.40	3.5	3.3	35	0	93	.09	6	.7	1.3	DEP
		7	1126	10.28	19	24.06	155	15.97	1.55	1.9	2.5	19	0	107	.10	3	.4	.3	SPC
		7	2120	37.03	19	20.72	155	7.13	8.99	2.2	2.5	26	0	91	.13	8	.9	.7	UER
		7	2256	19.84	20	8.57	155	45.40	23.69	2.9	2.2	18	3	159	.07	52	1.6	2.0	KOH
		8	210	10.84	19	25.58	155	17.10	.68	1.7	2.7	19	0	116	.17	5	.9	.6	SPC
		8	1413	49.47	19	21.76	155	3.30	6.36	2.2	2.8	27	0	116	.15	11	.8	1.2	MER
		8	1743	32.63	19	27.01	154	54.14	8.82	2.3	2.4	24	0	209	.18	18	2.6	1.0	LER
		8	1949	42.96	19	21.94	155	7.01	7.23	2.6	3.2	30	0	73	.12	8	.6	.9	UER
		8	2132	46.00	19	20.70	155	13.26	7.69	1.9	2.4	30	0	59	.14	6	.8	1.1	UER
		9	831	22.18	19	19.56	155	12.43	6.92	2.4	2.8	31	0	84	.14	6	.8	1.3	UER
		9	11 3	42.72	19	13.21	155	27.39	10.35	2.7	3.4	28	0	142	.12	17	.9	.4	LSW
		9	1133	6.46	19	12.34	155	17.20	42.70		1.3	18	0	194	.07	19	1.5	3.3	HLP
		9	1137	4.34	19	21.10	155	13.20	8.87	2.2	2.6	29	0	57	.12	6	.7	.9	UER
		9	1439	43.64	19	19.74	155	7.54	7.74	2.2	2.5	27	0	101	.12	8	.7	.6	UER
		9	1827	51.14	19	27.85	154	52.77	7.66	2.4	2.6	24	0	260	.14	20	2.4	1.0	LER
		9	2211	2.41	19	20.60	155	11.25	8.81	2.8	3.2	31	0	74	.10	8	.6	.7	UER
		10	015	3.85	19	20.07	155	7.32	8.55	3.3	3.7	32	0	100	.11	8	.7	.6	UER
		10	746	33.78	19	10.32	155	39.32	8.16	2.7	2.7	26	0	112	.20	21	1.3	1.5	HEA
		10	2018	53.34	19	21.25	155	8.41	8.42	2.2	2.8	26	0	79	.11	9	.7	.8	UER
		10	22 5	5.23	19	19.78	155	8.51	9.55	3.2	3.7	33	0	79	.09	10	.6	.2	UER
		10	2318	45.63	19	12.83	155	27.32	9.73	2.7	3.0	22	0	145	.16	18	1.3	.5	LSW
		10	2328	36.60	19	20.36	155	13.70	10.23	2.4	2.9	30	0	57	.10	6	.6	.3	UER
		10	2344	39.42	19	23.47	155	14.82	2.03	1.8	2.5	20	0	73	.11	3	.5	3.1	GLN
		11	016	55.97	19	23.30	155	14.84	1.65	2.0	2.6	20	0	70	.12	3	.5	.4	GLN
		11	3 5	35.62	19	47.43	155	25.05	18.00	2.6	2.5	33	0	81	.10	22	.7	1.9	KKU
		11	1437	49.53	18	55.52	155	17.60	16.99	2.6	3.1	21	0	249	.15	40	3.9	20.0	PPL
		12	328	13.91	19	20.15	155	9.33	8.56	1.8	2.5	27	0	77	.12	8	.8	.9	UER
		12	6 6	8.28	19	20.76	155	6.64	8.96	2.8	3.3	30	0	96	.10	7	.7	.5	UER
		12	1242	15.55	19	20.27	155	8.04	9.12	3.1	3.4	25	0	84	.07	9	.5	.4	UER
		12	1359	49.28	19	23.67	155	16.92	1.80	1.1	2.0	12	0	71	.06	3	.4	.2	SPC
		12	14 0	31.31	19	23.65	155	16.77	1.56	1.3	2.2	13	0	76	.08	3	.5	.3	SPC
		12	1932	20.92	19	21.80	155	4.18	7.06	2.6	3.2	29	0	93	.12	10	.6	.9	MER

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	REMK
1976	JUN	13	1421	41.00	19	20.20	155	8.22	9.25	3.0	3.4	29	0	81	.09	9	.6	.4	UER
		14	048	22.04	19	24.70	156	4.44	31.79	2.9	2.5	23	1	254	.15	39	3.2	1.4	KON
		14	631	39.00	19	23.14	155	14.77	4.05	2.5	3.0	26	0	61	.14	3	.7	1.0	GLN
		14	7 4	21.03	19	20.00	155	7.43	7.94	2.2	2.5	26	0	99	.14	8	.8	.9	UER
		14	1417	15.19	19	24.25	155	15.84	4.37	3.2	3.9	24	0	109	.14	3	.8	1.0	SPC
		14	1432	41.09	19	19.08	155	13.36	9.28	2.8	3.2	25	0	74	.12	7	.8	1.0	UER
		14	17 0	34.34	19	19.97	155	8.25	8.94	2.6	3.1	27	0	83	.12	9	.8	.6	UER
		15	423	39.28	19	21.37	155	8.37	8.16	2.9	3.3	31	0	68	.08	9	.4	.4	UER
		15	5 0	32.52	19	27.42	155	28.80	9.51	3.4	3.4	33	0	62	.14	11	.6	.4	UKF
		15	815	31.95	19	22.87	155	6.31	7.22	2.7	3.1	30	0	69	.13	8	.6	1.0	UER
		15	852	10.59	19	12.59	155	35.77	10.49	2.9	2.8	27	0	116	.18	23	1.3	.5	HEA
		15	1846	41.01	19	23.47	155	16.96	3.39	2.3	3.0	23	0	63	.13	3	.7	1.2	SPC
		16	917	15.92	19	21.81	155	4.84	7.79	3.4	3.6	31	0	79	.09	9	.5	.6	MER
		16	1744	18.20	19	23.17	155	14.62	5.07	2.6	3.1	27	0	56	.10	3	.4	.5	GLN
		16	1746	33.78	19	24.39	155	23.84	9.46	2.4	2.7	31	0	44	.13	8	.7	.9	UKF
		16	2117	42.41	19	17.56	155	27.93	8.47	2.4	2.7	29	0	45	.15	9	.7	1.3	HEA
		17	9 7	39.53	19	19.32	155	11.99	6.74	2.5	2.8	30	0	94	.14	6	.8	1.3	UER
		17	955	13.71	19	18.98	155	13.65	6.96	2.5	3.0	29	0	68	.16	7	.9	1.5	POL
		18	12 1	11.60	19	22.53	155	6.06	7.50	3.4	3.6	28	0	69	.11	7	.6	.9	UER
		18	1426	16.76	19	23.08	155	4.73	7.32	2.3	2.6	21	0	90	.13	9	.9	1.4	MER
		18	1513	14.08	19	23.97	155	23.78	8.39	2.3	2.8	30	0	45	.13	7	.6	.9	UKF
		19	943	42.80	19	20.88	155	11.28	8.54	2.5	2.6	27	0	70	.12	8	.6	.7	UER
		19	1549	22.61	19	19.44	155	12.45	6.87	2.3	2.7	30	0	86	.15	7	.8	1.1	UER
		19	1748	13.42	19	19.31	155	11.76	9.26	2.6	2.9	29	0	97	.13	7	.8	.7	UER
		20	021	26.55	19	18.94	155	16.43	8.61	2.0	2.6	28	0	104	.12	6	.7	.9	KOA
		20	025	11.27	19	23.50	155	15.04	4.82	3.1	3.4	29	0	76	.10	3	.4	.5	SPC
		20	3 6	23.81	19	11.44	155	32.81	10.64	3.1	3.5	23	0	132	.17	22	1.3	.6	LSW
		20	1624	10.79	19	22.23	155	12.69	5.49	2.5	3.0	26	0	79	.12	5	.7	.7	UER
		21	344	51.92	19	22.34	154	58.91	6.71	2.5	2.7	29	0	199	.16	10	1.7	1.3	LER
		21	453	37.14	19	54.73	155	33.63	19.98	2.7	2.4	28	1	140	.15	33	1.1	4.2	KKU
		21	513	56.13	19	24.13	155	16.15	1.62	2.0	2.6	13	0	109	.16	3	1.0	.6	SPC
		21	915	18.16	19	24.15	155	15.34	2.08		2.9	19	0	108	.10	3	.5	3.1	SPC
		21	952	3.60	19	22.91	155	14.06	3.29	2.0	2.8	22	2	61	.11	3	.6	1.2	UER
		21	1427	49.74	19	22.00	155	13.04	7.19	2.5	3.1	23	0	53	.08	7	.5	.9	UER
		21	1446	46.29	19	22.41	155	11.88	1.40	1.9	2.1	20	0	90	.10	6	.7	.5	UER
		21	1456	11.34	19	22.24	155	12.61	3.43	2.0	2.2	22	0	60	.14	5	.8	1.4	UER
		21	1539	5.68	19	22.49	155	13.27	6.80	2.9	3.6	26	0	54	.10	6	.5	1.0	UER
		21	17 2	18.46	19	21.99	155	12.55	1.98	2.0	2.0	20	0	59	.10	6	.5	18.3	UER
		21	1742	57.46	19	22.29	155	12.95	2.94	1.9	2.1	21	0	52	.11	5	.6	1.1	UER
		21	1752	32.44	19	22.01	155	13.00	5.03	2.2	2.6	27	0	51	.15	6	.7	.9	UER
		21	1816	27.24	19	22.15	155	12.92	5.39	3.1	3.5	28	0	50	.12	5	.5	.5	UER
		21	1835	54.31	19	22.23	155	13.13	4.84	2.0	2.0	28	0	49	.15	5	.6	.8	UER
		21	1848	49.42	19	22.19	155	13.16	3.21	2.0	2.0	24	0	49	.15	5	.8	1.4	UER
		21	1859	45.86	19	22.15	155	13.41	6.57	2.7	2.7	27	0	49	.09	6	.5	.8	UER
		21	19 1	13.17	19	21.93	155	12.89	1.71	1.9	2.1	22	0	52	.11	5	.5	.4	UER
		21	19 3	34.10	19	22.27	155	13.13	6.15	3.4	3.7	27	0	54	.09	6	.4	1.0	UER
		21	19 6	27.29	19	22.29	155	13.03	4.43	2.0	2.4	26	0	49	.15	5	.7	1.0	UER
		21	1922	11.60	19	22.43	155	13.36	3.72	1.9	2.2	21	0	85	.14	6	.7	1.4	UER

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	REMK
1976	JUN	21	1927	7.43	19	22.28	155	13.01	5.80	2.0	2.3	25	0	49	.15	5	.7	1.2	UER
		21	1935	13.32	19	22.49	155	13.34	2.92	2.0	1.9	22	0	47	.11	6	.6	1.6	UER
		21	1936	29.86	19	22.10	155	12.95	6.06	3.1	3.6	20	0	61	.13	9	.8	2.6	UER
		21	1941	6.18	19	22.17	155	13.05	5.63	2.5	2.7	29	0	50	.18	6	.9	1.7	UER
		21	1951	1.33	19	22.26	155	13.10	2.00	1.8	2.1	20	0	49	.09	5	.4	1.1	UER
		21	20 0	34.66	19	22.34	155	13.23	5.30	3.3	3.9	26	0	63	.13	7	.6	.7	UER
		21	2012	17.12	19	22.66	155	14.04	4.14	2.1	2.1	23	0	48	.14	4	.7	1.1	UER
		21	2013	11.07	19	22.41	155	12.82	4.68	2.2	2.2	25	0	49	.14	5	.6	.9	UER
		21	2015	12.03	19	22.81	155	5.04	9.38	3.2	3.5	30	0	84	.11	9	.7	.6	MER
		21	2035	46.04	19	22.63	155	14.08	4.48	1.9	2.2	24	0	70	.15	4	.7	1.0	UER
		21	2038	50.23	19	20.25	155	13.47	7.13	1.6	2.0	26	0	65	.16	6	.9	1.5	UER
		21	2118	37.95	19	22.40	155	12.85	2.01	1.8	2.2	22	0	49	.09	5	.5	1.1	UER
		21	2120	46.81	19	23.23	155	13.17	5.30	2.5	2.6	27	0	58	.19	5	.8	.9	GLN
		21	2127	28.99	19	23.17	155	14.84	5.42	3.0	3.4	20	0	64	.13	3	.7	1.4	GLN
		21	2143	23.51	19	23.16	155	14.63	5.52	2.0	2.5	26	0	46	.13	3	.6	1.1	GLN
		21	2148	12.93	19	21.35	155	12.44	.53	1.9	2.4	19	0	60	.19	6	.8	4.4	UER
		21	2152	1.73	19	22.39	155	13.25	5.62	2.4	2.8	23	0	73	.08	6	.5	.9	UER
		21	22 2	3.43	19	22.32	155	14.03	1.66	1.6	1.9	18	0	81	.10	4	.6	.5	UER
		21	22 6	37.46	19	23.16	155	14.57	3.65	1.9	2.3	23	0	59	.13	3	.6	1.1	GLN
		21	22 8	13.01	19	22.43	155	13.45	2.72	2.0	2.1	23	0	48	.14	4	.7	1.4	UER
		21	2241	19.86	19	22.36	155	12.75	4.87	2.8	3.6	28	0	77	.16	5	.7	.9	UER
		21	2323	47.47	19	23.13	155	14.36	2.29	1.8	2.2	23	0	46	.12	3	.5	1.7	GLN
		21	2338	14.28	19	22.61	155	14.09	1.89	1.8	1.9	19	0	49	.12	5	.6	29.5	UER
		21	2355	30.06	19	28.52	154	50.37	8.31	3.1	3.0	25	0	272	.12	24	3.6	.7	LER
		22	023	5.35	19	22.65	155	14.19	4.02	2.0	2.4	29	0	49	.15	4	.7	1.0	UER
		22	029	47.86	19	22.69	155	14.23	3.45	2.1	2.5	27	0	56	.15	4	.7	1.2	UER
		22	031	15.47	19	22.44	155	14.04	4.40	2.4	2.7	30	0	50	.16	4	.7	1.0	UER
		22	032	19.69	19	22.22	155	12.90	1.96	2.0	2.5	22	0	50	.11	5	.6	.4	UER
		22	034	47.50	19	22.81	155	13.98	2.13	1.5	2.2	20	0	47	.11	4	.5	2.0	UER
		22	036	31.15	19	22.48	155	14.19	5.44	2.3	2.5	25	0	50	.11	7	.5	.6	UER
		22	041	10.92	19	22.54	155	14.12	1.63	1.7	1.9	20	0	49	.10	4	.5	.6	UER
		22	047	40.90	19	22.81	155	14.04	.43	1.7	2.0	19	0	69	.12	5	.5	2.7	UER
		22	057	41.18	19	22.30	155	13.87	2.10	1.9	2.2	17	0	76	.12	4	.7	2.9	UER
		22	1 9	6.92	19	22.68	155	13.91	2.11	2.0	2.4	20	0	48	.11	4	.5	2.0	UER
		22	111	53.59	19	22.51	155	13.97	2.13	1.6	2.0	18	0	60	.11	4	.6	2.4	UER
		22	2 0	39.89	19	23.17	155	14.74	1.64	1.7	2.1	19	0	65	.12	3	.6	.4	GLN
		22	2 5	.77	19	22.38	155	14.59	1.70	1.6	1.9	20	0	52	.14	4	.6	.6	UER
		22	224	59.79	19	22.57	155	14.23	.46	1.5	1.9	18	0	76	.11	4	.5	.6	UER
		22	239	18.64	19	22.44	155	14.18	1.07	1.7	2.1	19	0	55	.14	4	.7	.6	UER
		22	246	24.50	19	22.37	155	14.22	.62	1.4	1.9	16	0	78	.13	4	.7	2.6	UER
		22	247	42.04	19	22.97	155	14.35	.08	1.4	2.0	17	0	65	.13	3	.6	.4	UER
		22	252	14.27	19	22.57	155	14.23	.44	1.2	2.1	16	0	76	.14	4	.7	.7	UER
		22	257	5.09	19	23.23	155	14.73	1.34	1.8	2.2	20	0	66	.12	3	.5	.4	GLN
		22	3 4	39.56	19	22.64	155	14.46	2.53	3.2	4.0	32	0	50	.15	4	.6	1.5	UER
		22	311	37.13	19	22.80	155	14.66	.82	1.6	2.3	16	0	88	.13	4	.6	.6	UER
		22	341	9.92	19	23.13	155	14.60	5.37	3.0	3.5	30	0	46	.11	3	.4	.4	GLN
		22	359	.46	19	22.21	155	14.32	.34	1.5	2.1	14	0	101	.13	5	.8	1.1	UER
		22	422	19.15	19	22.60	155	6.09	6.63	1.9	2.0	26	0	78	.11	7	.6	1.0	UER

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	REMK
1976	JUN	22	425	46.32	19	22.34	155	14.13	.05	2.0	3.0	23	0	51	.14	4	.5	.4	UER
		22	433	38.46	19	19.99	155	7.00	9.15	2.6	3.2	29	0	108	.10	7	.8	.5	UER
		22	522	1.67	19	22.19	155	14.30	.11	1.6	2.6	20	0	53	.13	5	.6	.4	UER
		22	531	10.65	19	23.17	155	14.78	1.64	1.5	1.9	14	0	66	.09	3	.5	.3	GLN
		22	549	44.07	19	21.87	155	14.32	1.09	1.8	2.3	22	0	56	.11	5	.4	.6	UER
		22	6 1	44.11	19	23.27	155	14.72	1.76	1.6	2.2	17	0	66	.11	3	.5	.6	GLN
		22	630	35.60	19	22.71	155	14.58	1.00	1.1	1.9	12	0	87	.15	4	.6	.5	UER
		22	643	13.21	19	22.46	155	14.04	.63	1.6	2.7	18	0	79	.10	4	.5	.5	UER
		22	646	41.04	19	23.16	155	14.52	1.75	1.4	2.0	18	0	59	.14	3	.7	.9	GLN
		22	710	31.16	19	22.62	155	14.51	.15	1.1	2.0	12	0	85	.10	4	.6	.4	UER
		22	742	17.23	19	23.55	155	15.16	1.52	1.5	2.1	14	0	87	.09	3	.5	.3	SPC
		22	8 6	25.88	19	22.45	155	14.22	.42	1.2	2.4	12	0	83	.10	4	.5	.7	UER
		22	8 8	17.17	19	20.02	155	8.63	7.78	2.0	2.5	27	0	75	.10	9	.5	.8	UER
		22	820	20.78	19	20.12	155	12.88	7.47	1.8	2.0	28	0	70	.11	6	.6	.9	UER
		22	833	7.26	19	23.41	155	14.88	2.00	1.7	2.3	12	0	76	.04	3	.3	.0	GLN
		22	1237	36.76	19	46.90	156	2.24	3.95	2.9	2.7	20	1	232	.14	47	1.5	1.9	KON
		22	1451	34.89	19	22.92	155	14.21	4.07	2.2	2.7	19	0	57	.11	3	.7	1.3	UER
		22	2029	28.30	19	21.03	155	13.27	9.33	2.3	2.9	29	0	57	.11	6	.5	.6	UER
		22	2149	8.13	19	19.41	155	12.08	6.26	2.0	2.5	27	0	91	.18	6	1.1	1.8	UER
		22	2353	54.35	19	23.28	155	14.50	3.51	2.4	2.8	25	0	45	.13	3	.6	1.1	GLN
		23	052	25.03	19	21.58	155	15.54	2.17	2.9	3.7	29	0	62	.16	4	.6	2.0	KOA
		23	541	38.22	19	22.67	155	25.18	9.52	2.4	2.7	30	0	56	.14	10	.7	.5	UKF
		23	1413	10.74	19	19.80	155	8.64	8.13	2.4	2.9	26	0	76	.12	9	.7	.7	UER
		24	256	57.19	19	23.21	155	14.55	3.64	2.1	2.7	22	0	47	.14	3	.8	1.2	GLN
		24	15 2	4.26	19	27.10	154	53.51	7.72	2.7	2.8	21	0	228	.15	19	2.7	1.0	LER
		24	1640	8.68	19	19.15	155	13.50	8.33	2.2	2.7	25	0	77	.12	7	.7	1.1	UER
		24	1947	53.85	19	20.31	155	11.90	9.23	3.6	3.8	29	0	76	.10	7	.5	.5	UER
		24	2017	27.31	19	20.93	155	16.73	29.76	2.4	2.3	32	0	70	.11	6	.9	1.6	DEP
		25	129	52.49	19	23.27	155	16.91	3.77	2.5	3.5	25	0	45	.14	3	.7	1.0	SPC
		25	144	9.16	19	23.34	155	14.90	1.92	2.3	3.0	22	0	68	.14	3	.7	14.1	GLN
		25	814	31.80	19	14.07	155	20.29	7.31	2.8	3.4	29	0	157	.15	12	1.0	1.6	HLP
		25	17 1	29.50	19	23.24	155	4.20	8.38	2.5	2.9	18	0	99	.11	10	1.0	1.7	MER
		26	1523	50.27	19	27.76	154	47.28	7.56	2.8	2.6	18	0	295	.07	29	9.0	2.6	LER
		26	2248	37.68	19	19.44	155	16.02	9.18	2.6	2.9	28	0	93	.09	5	.6	.7	KOA
		27	2318	7.02	19	23.19	155	14.56	5.09	2.5	2.9	27	0	55	.09	3	.4	.4	GLN
		28	8 6	54.39	21	1.41	156	3.54	4.00	3.4	3.1	3	2	360	.00	35	99.0	93.0	DIS
		28	11 0	39.55	19	31.66	155	45.13	9.55	2.5	2.5	21	0	77	.20	17	1.3	.7	KON
		28	1546	13.68	19	40.37	155	6.79	7.63	2.5	2.7	9	0	270	.11	36	4.5	50.8	HIL
		28	2318	53.52	20	7.18	156	20.46	13.21	3.2	2.3	6	2	220	.06	72	1.6	.0	DIS
		29	1 3	38.30	19	22.79	155	5.72	7.34	2.5	2.7	27	0	75	.14	7	.8	1.1	MER
		29	1627	14.88	19	17.84	155	16.24	7.83	2.6	2.9	30	0	123	.14	5	.8	1.0	KOA
		29	1748	6.12	19	20.61	155	8.02	9.15	2.5	2.9	26	0	80	.08	9	.5	.4	UER
		30	139	6.56	19	21.50	155	3.27	6.21	2.6	3.0	27	0	117	.16	11	1.0	1.4	MER
		30	617	47.31	20	13.33	155	39.55	6.64	3.2	.8	12	1	286	.12	71	2.0	1.2	KOH
	JUL	1	057	3.81	19	19.48	155	11.93	8.61	2.4	2.9	28	0	91	.14	6	.8	1.0	UER
		1	1817	26.42	19	26.98	155	24.65	6.41	2.4	2.8	29	0	56	.15	11	.7	2.1	UKF
		2	031	28.57	19	23.42	155	14.71	3.31	2.6	3.3	28	0	45	.18	3	.8	1.4	GLN
		2	211	2.44	19	19.48	155	10.97	8.57	2.2	2.5	29	0	97	.11	7	.6	.8	UER

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	REMK
1976	JUL	2	557	37.96	19	15.78	155	31.62	9.63	2.6	3.0	28	0	119	.20	14	1.3	.8	LSW
		2	1311	55.49	19	21.68	155	15.01	8.61	2.4	2.9	29	0	60	.11	4	.6	.6	KOA
		2	2317	39.84	19	9.45	155	33.74	36.18	2.5		28	0	120	.21	18	2.3	6.1	LSW
		3	039	27.62	19	23.54	155	16.86	3.35	2.4	3.1	27	0	67	.11	3	.5	.8	SPC
		3	1325	6.86	19	19.32	155	12.52	6.60	2.0	2.5	28	0	87	.15	7	.9	1.4	UER
		4	8 7	6.30	19	19.12	154	57.40	10.28	2.4	2.6	21	0	239	.18	16	4.2	.7	DIS
		4	1215	28.20	19	20.84	155	10.93	8.88	2.0	2.2	22	0	71	.07	8	.5	.8	UER
		4	1236	4.91	19	24.27	155	16.14	1.70	1.3	1.9	10	0	127	.05	3	.5	.2	SPC
		5	140	43.57	19	24.07	155	3.59	8.08	3.1	3.6	21	0	119	.12	11	1.0	.8	MER
		5	1714	23.00	19	20.22	155	13.27	6.94	2.1	2.5	27	0	64	.15	6	.9	1.3	UER
		5	1824	7.37	19	22.96	155	25.33	9.88	2.1	2.5	27	0	55	.14	10	.6	.6	UKF
		6	13 2	9.34	19	24.11	155	16.04	1.58	1.8	2.5	18	0	62	.12	2	.5	.3	SPC
		6	1345	47.97	19	21.61	155	15.27	9.41	3.2	3.5	28	0	62	.09	4	.5	.6	KOA
		6	1518	11.24	19	23.45	155	14.98	1.77	2.6	3.2	23	0	73	.12	3	.5	.4	GLN
		6	17 4	8.35	19	23.81	155	16.70	2.33	2.7	3.3	24	0	77	.14	3	.6	1.8	SPC
		6	18 7	18.28	19	23.37	155	14.45	3.32	2.5	2.9	23	0	52	.15	3	.8	1.5	GLN
		6	2145	4.23	19	23.44	155	14.60	2.17	2.1	2.7	20	0	59	.11	3	.5	2.1	GLN
		7	1749	6.58	19	24.26	155	15.75	4.37	2.5	3.3	21	0	109	.11	3	.6	.9	SPC
		7	2139	17.01	19	23.29	155	15.43	5.44	2.6	3.2	12	0	74	.11	20	.8	2.5	SPC
		7	2159	40.11	19	24.03	155	15.72	.82	2.0	2.7	9	0	71	.11	24	1.0	38.1	SPC
		8	1016	3.45	19	24.16	155	14.39	29.53	2.8	2.6	29	0	40	.07	4	.6	1.3	DEP
		8	21 1	31.23	19	19.38	155	11.61	6.83	2.2	2.6	27	0	97	.11	7	.7	1.0	UER
		9	033	3.45	19	54.37	155	33.78	24.45	2.4	1.6	30	3	242	.15	58	2.9	1.8	KKU
		9	1 7	4.52	19	19.46	155	12.03	6.27	2.2	2.7	28	0	91	.13	6	.7	1.4	UER
		9	651	17.52	19	20.20	155	7.51	8.95	2.6	2.9	12	0	94	.11	10	1.6	1.2	UER
		9	17 2	19.72	19	20.40	155	6.72	8.45	3.2	3.3	25	0	103	.08	7	.6	.4	UER
		10	741	36.58	19	20.22	155	11.37	9.21		2.3	26	0	80	.10	7	.5	.5	UER
		10	1150	24.82	19	20.51	155	13.61	10.56	3.0	3.4	26	0	57	.07	6	.5	.2	UER
		10	1541	3.55	19	22.48	155	15.94	30.72	2.8	2.9	30	0	57	.11	5	.9	1.7	DEP
		10	1920	26.79	19	19.48	155	11.52	8.08	1.6	2.5	22	0	95	.10	6	.7	1.0	UER
		11	1754	57.25	19	23.31	155	14.69	5.35	2.6	3.3	26	0	45	.12	3	.6	.5	GLN
		11	22 6	5.05	19	20.91	155	6.82	9.26	2.8	3.2	29	0	91	.11	7	.8	.5	UER
		11	2326	10.83	19	21.11	155	13.35	9.48	3.2	3.5	31	0	55	.09	6	.5	.4	UER
		12	0 4	15.48	19	19.75	155	9.97	7.65	2.3	2.8	28	0	89	.13	8	.8	1.1	UER
		12	1 1	41.87	19	23.42	155	14.97	2.51	2.3	2.7	21	0	72	.08	3	.4	2.1	GLN
		12	734	39.42	19	20.98	155	18.59	12.19	2.8	3.3	33	0	52	.10	5	.6	.2	KOA
		12	923	24.80	19	22.51	155	12.85	4.68	2.5	3.2	27	0	78	.18	5	.9	1.1	UER
		12	1245	35.20	19	23.10	155	14.73	4.41	3.0	3.3	23	0	59	.12	3	.7	.9	GLN
		13	0 0	45.44	19	15.43	155	16.00	6.57	2.1	2.6	26	0	166	.11	9	.8	1.3	HLP
		13	1648	55.74	19	9.50	155	28.79	46.96	3.1		28	0	135	.12	18	1.5	4.2	LSW
		13	18 0	53.97	19	19.39	155	15.68	8.06	2.1	2.6	28	0	91	.12	6	.7	1.1	KOA
		13	2121	5.18	19	22.51	155	5.05	7.57	2.6	2.8	31	0	82	.13	8	.6	1.0	MER
		13	2329	44.43	19	20.07	155	7.98	7.66	2.5	2.8	26	0	87	.12	9	.7	1.2	UER
		13	2343	46.16	19	23.43	155	14.85	1.87	2.1	2.5	23	0	72	.10	3	.5	10.4	GLN
		14	2 5	2.37	19	23.21	155	14.55	4.89	3.3	3.7	25	0	55	.12	3	.6	.7	GLN
		14	936	54.38	19	20.30	155	11.44	8.78	1.6	1.8	21	0	79	.08	7	.6	1.1	UER
		14	1014	49.18	19	21.70	155	15.06	8.18	1.6	1.9	21	0	60	.11	4	.7	1.1	KOA
		14	1040	31.68	19	20.46	155	11.00	8.45		1.0	16	0	77	.13	8	1.3	2.2	UER

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	REMK
1976	JUL	14	1044	58.74	19	19.64	155	16.28	8.01		.6	9	0	98	.03	5	.4	1.2	KOA
		14	1049	26.62	19	22.39	155	13.32	2.00		.6	7	0	133	.03	5	.5	.2	UER
		14	1057	55.09	19	23.97	155	29.69	9.58	1.9	2.1	21	0	51	.12	13	.7	2.2	UKF
		14	1342	48.03	19	22.31	155	13.08	3.27		1.5	14	0	78	.16	5	1.2	2.8	UER
		14	1346	56.49	19	22.31	155	12.89	2.92		1.6	12	0	105	.06	5	.5	1.2	UER
		14	1348	44.93	19	21.59	155	12.87	1.26		1.3	13	0	82	.16	6	1.0	1.2	UER
		14	1353	13.97	19	21.96	155	12.95	1.80	1.7	1.8	12	0	100	.07	5	.6	.3	UER
		14	1356	20.35	19	22.30	155	12.83	5.32	2.6	3.3	22	0	77	.14	7	.7	1.0	UER
		14	1359	47.28	19	22.20	155	12.85	1.95		1.9	13	0	103	.06	5	.5	.2	UER
		14	14	8 2.09	19	22.33	155	12.97	2.99	2.0	2.6	15	0	70	.08	5	.6	2.2	UER
		14	1414	38.07	19	22.65	155	12.76	4.88	3.1	3.8	25	0	97	.14	8	.7	1.0	UER
		14	1419	34.16	19	22.57	155	12.80	3.49	2.6	3.3	23	0	62	.13	5	.7	1.5	UER
		14	1427	7.70	19	22.05	155	12.90	.06	1.4	1.4	7	0	117	.06	5	.9	99.0	UER
		14	1435	40.85	19	21.94	155	12.51	1.42		1.2	12	0	104	.19	6	1.4	1.1	UER
		14	1442	40.90	19	22.25	155	13.12	1.79	1.7	2.2	14	0	91	.09	5	.7	.4	UER
		14	1447	12.28	19	22.74	155	14.12	2.13	1.5	1.5	14	0	85	.06	4	.4	5.7	UER
		14	1448	13.27	19	22.25	155	12.38	1.34	2.6	2.8	18	0	100	.14	8	.9	.6	UER
		14	1450	43.68	19	22.43	155	12.59	1.74	2.0	1.9	16	0	111	.11	5	.8	.3	UER
		14	1452	39.70	19	22.31	155	12.92	1.83	1.7	1.8	14	0	103	.08	5	.6	.3	UER
		14	1458	44.07	19	22.33	155	12.65	1.77		2.2	17	0	81	.11	5	.7	.4	UER
		14	15	1 34.25	19	21.98	155	13.09	1.68		1.4	10	0	144	.05	5	.5	.3	UER
		14	1511	51.94	19	22.48	155	13.24	2.70	2.0	2.4	18	0	68	.11	5	.6	1.5	UER
		14	1520	25.87	19	21.92	155	12.72	1.60	1.4		13	0	99	.07	6	.5	.4	UER
		14	1521	47.00	19	22.21	155	12.78	2.93	1.8	2.2	18	0	76	.10	5	.6	1.4	UER
		14	1524	11.01	19	22.00	155	12.83	6.26	2.5	2.6	24	0	74	.10	6	.6	1.3	UER
		14	1525	42.58	19	21.81	155	12.50	1.02	1.4	1.1	12	0	107	.09	6	.7	.9	UER
		14	1527	55.57	19	21.91	155	12.84	1.35	1.9	2.7	18	0	91	.11	5	.6	.6	UER
		14	1534	38.56	19	22.00	155	12.76	1.31	1.4	1.5	14	0	100	.07	6	.5	.4	UER
		14	1536	54.46	19	22.19	155	13.04	5.48	2.2	3.1	20	0	74	.09	6	.6	.6	UER
		14	1554	3.24	19	22.55	155	12.64	1.42		2.3	14	0	113	.13	5	1.0	.5	UER
		14	16	0 26.25	19	22.35	155	12.44	1.59		2.3	13	0	112	.07	5	.7	.3	UER
		14	16	1 56.14	19	22.72	155	12.51	5.32	2.3	3.0	22	0	89	.14	5	.7	.8	UER
		14	16	7 55.43	19	22.58	155	13.59	4.84		2.2	13	0	96	.12	6	1.0	2.9	UER
		14	1610	1.70	19	22.13	155	13.15	1.90	1.8	1.9	12	0	86	.08	5	.7	.3	UER
		14	1621	47.06	19	22.73	155	12.64	1.71		1.8	14	0	117	.06	5	.5	.2	UER
		14	1625	19.53	19	22.36	155	12.57	2.03	2.2	3.0	19	0	82	.10	5	.5	1.7	UER
		14	1630	19.56	19	22.31	155	12.39	1.67	2.6	3.4	21	0	84	.10	6	.6	.4	UER
		14	1633	40.14	19	22.22	155	12.44	1.54	1.4	1.7	14	0	109	.08	6	.7	.3	UER
		14	1640	10.43	19	22.38	155	12.64	1.74	1.7	1.6	15	0	82	.08	5	.6	.3	UER
		14	1654	6.82	19	23.24	155	11.92	.14	1.4	1.6	12	0	178	.19	5	1.8	1.4	GLN
		14	1655	59.12	19	22.63	155	12.59	1.66	1.7	2.0	15	0	115	.09	5	.7	.3	UER
		14	1657	17.12	19	22.29	155	12.60	4.42	2.2	2.2	16	0	109	.10	5	.8	1.4	UER
		14	17	5 55.96	19	22.55	155	12.74	6.41	2.6	3.0	20	0	96	.05	9	.5	.9	UER
		14	1735	2.97	19	22.53	155	12.60	3.64	2.1	2.4	17	0	61	.07	5	.5	1.0	UER
		14	1742	8.11	19	22.39	155	12.61	2.75	1.7	2.1	16	0	82	.09	5	.6	1.5	UER
		14	1744	53.86	19	22.43	155	12.52	5.69	2.0	2.2	18	0	50	.09	5	.5	1.1	UER
		14	1749	59.37	19	22.47	155	12.09	4.11	2.2	2.9	25	0	89	.16	6	1.0	1.4	UER
		14	1831	22.31	19	20.10	155	9.02	8.64	2.2	2.6	24	0	74	.11	11	.8	.6	UER

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	REMK
1976	JUL	14	2035	22.09	19	23.42	155	14.77	1.10	1.9	2.1	13	0	70	.09	3	.4	.3	GLN
		14	2037	13.06	19	23.25	155	14.65	1.18	1.9	2.6	20	0	63	.11	3	.4	.4	GLN
		14	2119	30.82	19	22.99	155	14.61	.29	1.8	2.7	19	0	65	.16	3	.6	.7	UER
		14	2221	43.49	19	22.19	155	14.04	2.00	1.7	2.1	14	0	71	.11	5	.7	.0	UER
		14	2241	51.36	19	19.97	155	9.08	7.70	2.4	2.9	28	0	77	.14	9	.9	1.2	UER
		14	2311	54.50	19	21.36	155	14.72	.22	1.4	1.4	12	0	83	.08	5	.5	2.5	UER
		15	016	56.78	19	22.66	155	14.33	.43	1.2	1.4	11	0	92	.05	4	.3	.3	UER
		15	2 7	30.44	19	25.37	155	16.21	.48	1.3		11	0	151	.19	4	1.5	.8	SPC
		15	218	36.34	19	22.16	155	12.61	1.93	1.4	1.8	13	0	106	.05	6	.4	.2	UER
		15	221	48.51	19	23.06	155	14.77	2.00	1.1	1.8	10	0	115	.20	3	1.7	.0	GLN
		15	248	8.31	19	22.69	155	14.71	.33	1.9	2.8	20	0	69	.12	4	.5	.5	UER
		15	313	19.75	19	22.12	155	12.67	1.88	1.4	1.9	15	0	105	.07	6	.5	.2	UER
		15	437	30.48	19	22.62	155	14.61	.38	2.0	2.9	21	0	72	.14	4	.6	.6	UER
		15	547	50.03	19	22.18	155	13.57	2.00	1.3	1.8	12	0	87	.12	5	.9	.0	UER
		15	854	39.83	19	21.66	155	7.67	7.81	3.3	3.5	28	0	72	.14	8	.7	.8	UER
		16	111	28.75	19	10.70	155	32.65	8.83	3.2	3.8	27	0	136	.18	23	1.3	1.4	LSW
		16	447	5.75	19	19.70	155	11.56	9.34	2.5	3.1	28	0	90	.13	6	.8	.7	UER
		16	7 4	4.17	19	19.39	155	16.50	9.47	2.5	3.2	30	0	98	.12	6	.7	.7	KOA
		16	1128	47.24	19	20.19	155	6.70	8.06	2.4	2.9	24	0	108	.11	7	.8	.7	UER
		16	2156	22.76	19	23.31	155	14.52	4.21	2.1	2.9	23	0	54	.15	3	.8	1.2	GLN
		17	026	11.30	19	20.00	155	8.59	8.42	2.3	2.8	29	0	76	.09	9	.6	.4	UER
		17	344	33.04	19	21.15	155	17.10	.56	1.7	2.7	16	0	66	.14	4	.7	2.7	KOA
		18	117	52.60	19	19.19	155	13.95	9.73	2.7	3.0	28	0	62	.13	7	.8	.5	UER
		18	250	45.49	19	20.42	155	7.93	8.45	2.4	3.1	27	0	84	.10	9	.6	.5	UER
		18	1549	51.00	19	19.15	155	15.98	8.78	2.2	2.4	26	0	98	.13	6	.8	1.1	KOA
		18	1947	18.76	19	22.08	155	5.06	7.59	2.1	2.2	23	0	90	.11	8	.7	1.1	MER
		18	2044	59.82	19	23.49	155	14.80	3.85	2.2	2.5	20	0	48	.11	3	.6	1.1	GLN
		18	2331	25.59	19	19.83	155	7.64	9.32	3.4	4.0	27	0	98	.10	8	.8	.5	UER
		19	051	15.95	19	19.89	155	7.67	9.51	3.0	3.4	29	0	96	.09	8	.7	.3	UER
		19	929	46.72	19	23.28	155	14.46	3.80	2.2	2.7	20	0	54	.13	3	.8	1.2	GLN
		19	1358	29.12	19	20.29	155	7.24	6.57	2.3	2.8	29	0	97	.14	8	.8	1.3	UER
		19	1858	30.65	19	22.99	155	5.95	7.43	2.4	2.7	25	0	73	.11	8	.6	.7	MER
		19	2019	8.00	19	23.53	155	14.44	2.18	2.1	2.8	22	0	53	.15	3	.7	3.2	GLN
		20	023	7.67	19	21.23	155	13.12	9.33	2.2	2.8	28	0	56	.13	6	.7	.8	UER
		21	237	5.32	19	19.42	155	12.71	7.84	2.6	3.1	32	0	82	.17	7	1.0	1.4	UER
		21	610	5.58	19	24.04	155	15.67	1.31	1.8	2.7	17	0	113	.13	3	.6	.4	SPC
		22	240	53.05	19	22.63	155	4.62	9.20	3.7	4.1	34	0	90	.13	9	.8	.5	MER
		22	1753	13.31	19	19.92	155	11.19	7.33	2.4	2.9	28	0	87	.14	7	.8	1.3	UER
		22	2149	45.42	19	23.77	155	14.85	4.82	3.2	3.6	31	0	56	.14	3	.5	.7	GLN
		22	2314	4.27	19	23.45	155	14.41	4.08	2.2	2.9	23	0	53	.12	3	.7	1.0	GLN
		23	132	50.83	19	20.68	155	3.40	7.71	2.8	3.3	29	0	100	.14	10	1.2	.7	MER
		23	7 2	5.36	19	24.13	155	15.92	1.36	1.9	2.8	18	0	113	.15	3	.7	.5	SPC
		23	9 4	52.08	19	23.83	154	57.41	7.57	2.7	3.0	22	0	196	.12	12	1.1	1.2	LER
		23	1017	8.43	19	23.54	155	14.73	3.88	2.7	3.2	21	0	65	.07	3	.4	.7	GLN
		23	15 4	23.83	19	20.39	155	13.45	9.71	1.8	2.4	23	0	60	.10	6	.7	1.1	UER
		23	1938	17.12	19	20.05	155	8.59	9.55	3.7	4.0	32	0	80	.10	10	.6	.3	UER
		24	0 3	49.14	19	20.73	155	11.23	9.33	1.9	2.5	24	0	73	.11	8	.7	1.0	UER
		24	122	14.65	19	13.35	155	35.54	10.32	3.4	3.5	29	0	115	.19	17	1.2	.5	HEA

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	REMK
1976	JUL	24	2053	44.16	19	23.05	155	6.85	8.47	2.9	3.1	29	0	65	.08	9	.4	.6	GLN
		24	2346	30.98	19	23.34	155	14.74	5.03	3.3	3.9	28	0	45	.12	3	.5	.6	GLN
		25	114	38.87	19	20.00	155	13.14	7.85	2.1	2.5	25	0	68	.08	7	.5	.8	UER
		25	2252	54.61	19	18.85	155	13.75	9.50	2.7	3.2	32	0	66	.13	7	.8	.7	POL
		26	418	4.91	19	23.28	155	14.50	5.04	2.5	2.9	29	0	49	.12	3	.5	.6	GLN
		26	1533	8.29	19	21.82	155	6.10	7.86	2.7	2.9	30	0	79	.11	7	.7	.6	UER
		27	714	26.85	19	22.27	155	4.89	9.39	4.0	4.1	32	0	83	.12	9	.9	.5	MER
		27	12 8	15.96	19	11.97	155	30.27	42.28	2.8		24	0	157	.18	19	4.4	8.3	LSW
		27	2037	12.69	19	23.49	155	14.57	4.70	3.6	4.0	30	0	46	.12	3	.5	.6	GLN
		27	2214	6.43	19	21.46	155	7.59	8.01	2.9	3.3	29	0	75	.11	8	.6	.8	UER
		27	2339	53.27	19	20.02	155	7.00	7.60	2.4	2.9	25	0	107	.11	7	.6	.9	UER
		28	358	37.44	19	19.57	155	11.52	6.81	2.4	3.0	28	0	93	.15	6	.9	1.5	UER
		28	16 3	19.82	19	23.73	155	23.92	9.67	3.5	3.3	31	0	66	.12	7	.6	.5	UKF
		28	1839	6.19	19	19.63	155	14.28	7.35	2.2	2.7	26	0	68	.11	6	.6	1.0	UER
		28	2334	22.78	19	20.13	155	8.57	8.29	2.6	3.1	28	0	76	.12	9	.7	.6	UER
		29	135	59.43	19	23.64	155	14.75	2.58	2.2	2.8	22	0	68	.12	3	.6	1.9	GLN
		29	257	38.83	19	23.54	155	14.64	4.17	2.7	3.1	22	0	62	.13	3	.7	1.1	GLN
		29	341	.63	19	20.96	155	2.70	6.24	2.5	3.0	30	0	143	.12	11	.9	.7	MER
		29	856	57.57	19	29.17	154	50.55	7.76	2.9	3.3	27	0	271	.15	23	3.7	.9	LER
		29	1043	12.25	19	21.46	155	6.24	7.77	2.4	2.7	28	0	85	.15	7	.9	.8	UER
		29	1429	54.89	19	21.79	155	7.74	7.69	2.5	3.0	25	0	79	.14	8	.6	1.1	UER
		29	1953	6.94	19	19.51	155	15.94	8.90	2.5	2.9	29	0	91	.14	6	.8	.8	KOA
		29	2246	35.39	19	23.07	155	15.42	4.91	2.9	3.3	28	0	72	.19	4	.8	.9	SPC
		30	2 6	31.54	19	19.60	155	11.24	8.26	2.8	3.0	30	0	93	.13	6	.8	.8	UER
		30	5 9	43.69	19	20.40	155	6.66	8.04	3.8	4.1	33	0	104	.09	7	.5	.4	UER
		30	8 2	34.99	19	20.50	155	6.76	9.26	2.7	3.1	29	0	100	.09	7	.7	.4	UER
		30	1825	47.04	19	21.28	155	6.13	8.59	2.8	3.4	31	0	89	.12	7	.8	.5	UER
		30	2319	14.05	19	20.27	155	12.19	8.62	3.0	3.5	31	0	75	.13	6	.6	.6	UER
		31	943	46.96	19	21.17	155	6.20	8.36		2.9	28	0	91	.12	7	.8	.6	UER
		31	955	24.01	19	23.46	155	14.73	5.17	3.1	3.3	20	0	64	.10	5	.5	.6	GLN
		31	1137	1.21	19	19.48	155	16.24	8.80	2.3	2.8	27	0	95	.11	5	.7	.8	KOA
		31	1312	44.26	19	19.89	155	16.31	7.86	2.2	2.9	28	0	90	.14	5	.8	1.0	KOA
		31	1651	36.05	19	24.28	155	15.86	4.61	3.3	3.8	29	0	109	.12	3	.5	.6	SPC
	AUG	1	9 2	55.71	19	21.57	155	6.35	8.22	2.7	3.2	17	0	180	.09	15	1.5	.9	UER
		1	1151	33.27	19	23.19	155	14.53	1.76	3.0	3.3	21	0	46	.12	3	.6	31.5	GLN
		1	15 1	17.48	19	21.84	155	5.26	8.16	3.4	3.4	29	0	78	.11	8	.7	.5	MER
		1	1639	18.04	19	23.58	155	14.80	6.21	3.6	3.8	25	0	85	.12	6	.6	1.2	GLN
		1	1647	19.81	19	23.34	155	14.65	1.46	2.5		18	0	68	.11	3	.5	.4	GLN
		1	1648	10.58	19	23.46	155	14.62	1.98	2.5	2.8	16	0	70	.12	3	.5	23.4	GLN
		2	253	49.48	19	16.57	155	23.50	5.36	2.3	2.6	26	0	134	.16	9	.9	1.2	SWR
		2	637	1.42	19	21.52	155	15.11	9.87	3.2	3.5	29	0	62	.10	5	.6	.4	KOA
		3	330	17.09	19	19.35	155	12.62	8.48	3.0	3.4	33	0	85	.15	7	.8	.9	UER
		3	523	31.91	19	26.50	154	53.67	8.88	3.0	3.5	27	0	227	.09	19	1.4	.5	LER
		4	2124	8.35	19	23.45	155	14.47	4.18	2.3	2.9	24	0	53	.14	3	.7	1.0	GLN
		4	22 4	20.39	19	23.42	155	14.57	2.58	2.1	2.6	26	0	45	.15	3	.6	1.9	GLN
		5	957	20.60	19	24.14	155	15.89	1.54	2.2	3.0	19	0	108	.11	3	.5	.3	SPC
		6	338	55.38	19	22.71	155	5.58	8.12	3.2	3.6	30	0	76	.11	8	.6	.6	MER
		6	755	40.42	19	22.51	155	5.92	8.05	2.3	2.9	26	0	71	.13	7	.8	1.1	MER

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	REMK
1976	AUG	6	1450	31.83	19	24.22	155	15.33	1.26	2.3	3.2	18	0	115	.09	3	.4	.4	SPC
		7	131	45.35	19	21.29	155	2.69	6.59	3.3	3.8	27	0	140	.11	12	.8	.8	MER
		7	1142	19.32	19	19.17	155	11.98	9.06	3.1	3.8	23	0	98	.10	7	.7	.9	UER
		7	1414	31.87	19	19.67	155	7.77	7.91	2.8	3.3	21	0	97	.10	9	.8	.9	UER
		7	2247	41.02	19	21.51	155	6.15	7.81	2.4	2.9	25	0	85	.11	7	.7	.7	UER
		8	510	32.20	19	23.95	155	15.19	1.93	1.9	2.8	17	0	58	.09	3	.3	18.8	SPC
		8	1411	29.25	19	23.46	155	14.91	4.68	2.6	2.9	21	0	97	.10	3	.5	.6	GLN
		8	19 4	12.23	19	19.69	155	10.01	8.43	2.2	2.6	24	0	91	.13	8	.8	1.0	UER
		9	13 1	39.94	19	23.54	155	14.42	1.72	2.2	2.5	22	0	52	.10	3	.4	.7	GLN
		9	13 9	33.49	19	23.37	155	14.62	4.99	3.4	3.7	30	0	45	.13	3	.5	.6	GLN
		9	1757	33.62	19	20.97	155	11.27	8.09	2.5	2.9	30	0	69	.13	8	.6	.7	UER
		10	158	46.17	19	21.31	155	13.28	7.93	2.5	3.0	29	0	54	.14	6	.8	.9	UER
		10	19 3	47.59	19	19.17	155	13.31	10.12	3.5	3.8	32	0	74	.10	7	.6	.2	UER
		11	119	4.60	19	23.41	155	14.44	3.97	2.7	3.2	29	0	44	.13	3	.5	.8	GLN
		11	3 5	24.73	19	23.59	155	14.78	3.50	2.5	2.8	26	0	49	.13	3	.6	1.1	GLN
		11	1630	11.09	19	20.48	155	11.50	8.20	2.7	3.3	29	0	76	.14	7	.8	1.0	UER
		12	720	18.70	19	19.37	155	13.61	8.63	2.4	2.9	29	0	66	.14	7	.8	1.0	UER
		13	753	18.24	19	28.98	155	2.67	10.63	2.4	2.7	22	0	87	.11	9	1.0	.4	GLN
		13	1624	11.76	19	42.73	155	2.59	.16	2.4	2.8	14	0	206	.14	34	2.1	41.6	HIL
		13	2023	20.87	19	23.95	155	15.35	4.41	2.7	3.3	25	0	63	.12	3	.6	.8	SPC
		14	020	11.88	19	24.07	155	15.72	2.16	1.5	2.0	13	0	113	.11	3	.7	9.8	SPC
		14	231	.47	19	23.50	155	14.60	2.27	2.1	2.4	19	0	59	.12	3	.6	2.9	GLN
		14	938	48.16	19	22.07	155	7.17	8.15	2.5	2.7	28	0	77	.08	6	.5	.6	UER
		14	1334	46.02	20	.19	156	4.85	10.43	2.9	2.3	15	3	261	.17	60	4.2	1.6	DIS
		14	17 1	.37	19	21.44	155	8.07	8.44	3.2	3.6	29	0	71	.10	9	.5	.6	UER
		14	1753	34.07	19	20.38	155	12.60	8.04	2.5	2.9	26	0	69	.12	6	.7	1.2	UER
		14	2237	8.83	19	19.18	155	11.97	8.62	2.6	3.3	30	0	98	.17	7	1.0	1.2	UER
		15	117	51.35	19	20.19	155	13.20	7.31	2.2	2.6	27	0	65	.10	6	.6	1.0	UER
		15	2128	7.49	19	23.53	155	15.03	4.05	2.2	2.7	20	0	51	.09	3	.5	.9	SPC
		15	2323	15.72	19	23.27	155	14.53	1.84	2.1	2.5	18	0	55	.12	3	.5	31.7	GLN
		16	0 6	58.48	19	23.22	155	14.56	3.56	2.1	2.6	19	0	47	.07	3	.4	1.0	GLN
		16	231	8.43	19	21.89	155	3.90	7.44	2.4	3.5	18	0	114	.08	10	.7	.6	MER
		16	848	24.91	19	20.60	155	12.08	6.70	2.5	2.6	27	0	71	.16	7	.9	1.5	UER
		16	1856	16.77	19	20.33	155	7.73	9.08	2.8	3.3	27	0	134	.10	10	.8	.6	UER
		17	0 0	33.52	19	21.25	155	13.36	9.44	2.6	3.0	28	0	54	.12	6	.7	.8	UER
		17	423	39.90	19	27.44	154	52.91	7.93	2.7	3.0	26	0	252	.20	20	3.6	1.0	LER
		17	822	45.53	19	23.79	155	17.21	1.75	1.8	2.7	20	0	53	.10	3	.4	.3	SPC
		17	1725	34.44	19	24.23	155	15.36	2.15	2.3	3.2	26	0	109	.16	3	.7	3.1	SPC
		18	615	38.53	19	22.27	155	6.70	7.69	2.7	3.0	29	0	70	.16	8	.9	1.2	UER
		18	642	48.37	19	22.53	155	6.58	6.56	2.4	2.6	27	0	70	.15	8	.9	1.5	UER
		18	1129	42.91	19	23.42	155	14.79	1.80	2.0	3.0	20	0	45	.09	3	.4	.5	GLN
		18	1140	29.36	19	23.53	155	14.78	4.55	2.7	3.1	24	0	44	.09	3	.4	.7	GLN
		18	1147	31.62	19	23.70	155	14.58	2.20	2.7	2.8	24	0	44	.14	3	.6	2.7	GLN
		18	1348	49.33	19	31.82	155	27.68	6.47	2.6	2.7	26	0	77	.14	15	.7	3.6	NER
		18	1541	6.94	19	20.11	155	13.04	9.27	2.2	3.0	29	0	68	.13	7	.8	.8	UER
		19	12 7	42.51	19	19.47	155	11.80	9.76	2.7	3.2	30	0	93	.12	6	.8	.4	UER
		19	16 7	44.48	18	58.37	155	22.67	31.68	3.1	2.7	30	0	230	.11	34	2.0	3.6	DIS
		19	2039	4.00	19	19.73	155	11.31	8.71	2.4	2.9	29	0	90	.13	6	.7	.9	UER

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	REMK
1976	AUG	20	022	45.09	19	21.89	155	4.98	7.61	2.3	2.8	28	0	78	.13	9	.7	.9	MER
		20	328	30.79	19	22.07	155	4.96	6.88	2.6	3.3	29	0	80	.16	9	.9	1.3	MER
		20	11 6	22.66	19	22.10	155	4.77	6.43	2.3	2.5	25	0	95	.15	9	.9	1.5	MER
		20	1225	43.17	19	20.51	155	6.51	7.35	2.6	2.8	27	0	103	.13	7	.8	1.2	UER
		20	1319	23.28	19	21.83	155	15.11	8.54	2.1	2.6	25	0	59	.13	4	.8	.9	KOA
		21	254	17.41	19	27.09	155	27.86	9.70	2.9	3.0	35	0	43	.13	13	.6	.3	UKF
		21	1557	4.96	19	19.74	155	8.01	8.16	2.4	2.9	27	0	90	.11	9	.6	.6	UER
		21	1951	14.24	19	19.52	155	12.59	7.66	2.4	2.7	30	0	82	.15	7	.8	1.2	UER
		22	5 3	18.27	19	20.68	155	13.66	8.43	2.1	2.5	31	0	56	.16	7	.8	1.0	UER
		22	1626	55.87	19	22.95	155	14.34	4.34	2.2	3.3	22	0	66	.12	3	.7	1.1	UER
		22	17 9	18.33	19	24.93	155	24.87	9.48	2.4	2.9	23	0	58	.10	9	.5	.8	UKF
		22	1726	14.98	19	20.50	155	7.95	8.32	2.2	2.6	24	0	83	.11	9	.7	.7	UER
		22	1736	37.78	19	20.76	155	13.61	9.58	2.5	2.8	24	0	62	.09	7	.6	.4	UER
		23	1132	2.33	19	24.21	155	2.29	7.46	2.9	3.4	28	0	127	.11	9	.7	.6	MER
		23	1834	23.30	19	23.49	155	21.71	9.75	2.1	2.5	23	0	59	.09	9	.5	.3	UKF
		23	2349	7.25	19	20.17	155	7.32	7.38	2.4	2.9	29	0	98	.10	8	.6	.8	UER
		24	2 9	23.73	19	20.94	155	11.09	7.11	2.1	2.5	27	0	70	.15	8	.9	1.3	UER
		24	1937	1.90	19	17.51	155	21.61	5.87	2.1	2.6	33	0	123	.18	9	.9	2.0	SWR
		25	20 6	32.36	19	19.95	155	9.96	8.45	2.3	2.7	27	0	85	.12	7	.7	.8	UER
		26	319	43.60	19	21.78	155	15.06	10.15	3.6	4.0	31	0	59	.10	4	.6	.3	KOA
		26	710	45.38	19	21.62	155	8.22	8.87	2.2	2.7	26	0	68	.09	9	.5	.5	UER
		26	736	13.04	19	19.66	155	15.91	8.21	2.0	2.6	29	0	89	.14	6	.8	1.0	KOA
		26	1451	14.03	19	19.84	155	10.64	8.40	2.2	2.7	27	0	89	.12	7	.7	.8	UER
		27	050	44.29	19	22.17	155	8.40	7.91	2.5	3.0	31	0	61	.16	8	.7	1.0	UER
		28	734	59.95	19	21.41	154	59.85	1.88	2.5	3.2	18	1	203	.12	12	1.4	1.0	LER
		28	1859	55.45	19	21.29	155	13.39	9.66	3.0	3.6	30	0	55	.09	6	.5	.3	UER
		28	1817	47.52	19	22.02	155	6.76	7.62	2.3	2.9	22	0	73	.12	8	.8	1.5	UER
		29	1331	42.73	19	20.00	154	58.91	4.78	2.5	3.0	14	3	238	.18	14	2.2	1.4	LER
		29	1549	6.23	19	21.24	155	1.53	7.40	2.1	2.1	21	0	184	.19	13	2.2	1.4	MER
		29	2036	25.54	19	27.89	154	52.91	7.68	2.9	3.5	18	0	258	.14	19	3.2	1.0	LER
		29	23 7	14.28	19	20.27	155	13.78	8.39	2.0	2.4	17	0	69	.09	6	.6	.9	UER
		30	654	13.35	19	21.46	155	6.12	6.70	2.1	2.4	23	0	86	.12	7	.8	1.2	UER
		30	1035	50.88	19	20.62	155	13.08	7.84	2.1	2.7	28	0	62	.16	6	.8	1.1	UER
		30	2143	46.64	19	20.57	155	12.13	9.01	2.3	2.9	31	0	71	.15	7	.7	.8	UER
		30	22 4	23.91	19	12.31	155	32.08	41.68	2.5	1.8	31	0	84	.18	20	2.0	5.2	LSW
		31	258	14.50	19	20.57	155	6.67	8.34	2.2	2.6	30	0	100	.12	7	.7	.6	UER
		31	1041	8.47	19	23.42	155	29.67	10.18	4.0	4.1	35	0	40	.13	13	.6	.3	UKF
		31	1120	3.78	19	20.57	155	7.40	8.36	2.2	2.7	28	0	90	.12	8	.6	.7	UER
		31	14 0	38.53	19	19.89	155	7.01	9.05	3.4	3.8	30	0	110	.12	7	.9	.6	UER
		31	2041	8.04	19	19.60	155	11.81	7.73	2.2	2.5	28	0	90	.11	6	.6	.9	UER
	SEP	1	029	52.15	19	56.50	155	31.85	13.73	2.8	2.5	36	3	158	.17	33	1.0	20.6	KOH
		1	639	35.71	19	23.90	155	28.35	9.11	2.2	2.6	31	0	47	.14	14	.7	1.1	UKF
		1	1729	10.43	19	22.31	155	4.23	7.69	2.5	2.9	25	0	95	.14	10	.9	1.0	MER
		1	2034	34.25	19	19.40	155	11.06	8.39	2.7	3.4	33	0	99	.15	7	.8	.9	UER
		2	1020	26.76	19	21.18	155	3.20	7.62	3.5	4.0	31	0	118	.11	11	.8	.5	MER
		2	20 1	49.06	19	2.71	154	58.44	37.61	2.8	2.4	31	4	278	.11	37	2.3	2.6	DIS
		2	2216	9.45	19	23.44	155	3.52	7.29	2.6	3.0	29	0	111	.12	11	.6	.9	MER
		3	116	1.41	19	19.60	155	7.73	7.68	2.4	2.5	30	0	99	.11	8	.5	.7	UER

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	REMK
1976	SEP	3	116	55.89	19	19.77	155	10.60	8.90	3.1	3.5	33	0	91	.12	7	.7	.6	UER
		3	728	27.24	19	20.91	155	16.92	2.52	1.8	2.5	18	0	69	.15	5	.8	2.5	KOA
		3	12 6	55.99	19	21.06	155	8.06	8.45	2.9	3.1	26	0	75	.10	9	.5	.6	UER
		3	15 5	9.27	19	22.50	155	5.57	7.08	2.3	2.6	23	0	84	.13	8	.7	1.0	MER
		3	1523	20.02	19	22.93	155	24.70	9.57	2.9	3.5	19	0	82	.11	9	.8	.8	UKF
		3	1543	28.17	19	22.86	155	5.48	8.23	2.8	3.2	25	0	78	.12	8	.7	1.0	MER
		3	22 3	41.40	19	28.89	154	50.99	7.62	3.5	3.8	27	0	269	.14	22	3.2	.9	LER
		3	2329	57.62	19	21.86	155	5.24	8.44	2.7	3.1	26	0	78	.12	8	.9	.6	MER
		4	121	32.09	19	20.28	155	7.96	9.00	2.5	3.0	28	0	85	.09	9	.7	.5	UER
		4	10 1	22.22	19	30.21	155	47.91	9.90	2.9	2.3	20	0	86	.20	21	1.4	.7	KON
		4	1121	11.00	19	23.39	155	3.51	8.81	2.6	2.9	21	0	111	.10	11	.9	.5	MER
		4	1310	54.24	19	19.79	155	16.32	9.62	3.9	4.0	33	0	91	.10	5	.5	.4	KOA
		4	2333	29.61	19	23.00	155	59.79	40.13	3.1	2.3	26	1	270	.14	35	2.0	2.8	KON
		5	6 4	9.85	19	19.36	155	16.43	9.63	3.2	3.4	28	0	98	.08	6	.5	.2	KOA
		5	650	15.57	19	20.32	155	8.30	9.60	2.4	2.7	26	0	79	.09	9	.7	.3	UER
		5	1454	26.70	19	46.13	155	46.79	12.44	3.0	2.6	28	0	146	.20	34	1.6	1.0	KON
		6	428	28.36	19	20.77	155	10.00	8.29	2.2	2.8	31	0	71	.14	7	.7	.8	UER
		6	534	15.20	19	26.46	154	54.22	7.97	3.5	4.0	30	0	214	.13	18	1.7	.7	LER
		6	541	18.57	19	23.51	155	2.30	7.39	2.3	2.5	25	0	132	.13	10	.8	.9	MER
		6	752	11.12	19	23.82	155	24.15	9.40	1.9	2.2	27	0	46	.15	8	.8	1.3	UKF
		6	758	26.19	19	19.71	155	11.31	9.22	2.4	3.0	26	0	91	.12	6	.7	.8	UER
		6	1642	52.26	19	23.02	154	58.34	7.35	2.6	2.9	25	0	196	.23	11	2.6	1.9	LER
		6	1919	.38	19	21.23	155	16.05	4.52	3.6	4.2	26	0	76	.13	7	.7	1.0	KOA
		6	2324	43.84	19	23.24	155	3.90	7.59	2.6	2.8	27	0	104	.14	11	.7	1.0	MER
		7	312	57.16	19	22.00	155	8.50	7.16	2.2	2.5	27	0	62	.14	9	.7	1.1	UER
		7	1418	14.00	19	21.36	155	5.99	6.10	2.3	2.7	28	0	88	.14	7	.8	1.4	MER
		7	1436	15.35	19	22.62	155	3.67	6.96	2.4	2.8	26	0	108	.14	11	.9	1.2	MER
		7	1715	15.59	19	22.34	155	5.36	8.46	2.7	3.1	28	0	77	.14	8	.9	.9	MER
		7	2124	10.73	19	21.46	155	15.83	.61	1.8		24	0	64	.14	4	.5	.5	KOA
		7	2124	48.74	19	22.37	155	4.84	8.00	3.0	3.3	28	0	85	.12	9	.6	.8	MER
		7	22 1	16.28	19	22.20	155	4.73	8.28	3.5	4.0	32	0	85	.12	9	.7	.6	MER
		8	4 1	55.52	19	18.45	155	20.83	9.51	3.2	3.6	29	0	113	.09	7	.5	.3	SWR
		8	638	19.24	19	21.45	155	6.19	7.74	2.7	2.9	26	0	86	.13	8	.8	1.1	UER
		8	952	53.05	19	11.66	155	21.16	41.91		1.5	24	1	169	.07	13	1.1	1.8	LSW
		8	1033	58.45	19	19.99	155	5.05	7.00	2.5	2.9	28	0	134	.15	9	.9	1.1	MER
		9	8 3	31.63	19	28.52	154	49.23	8.59	2.9	3.3	16	2	295	.09	39	5.2	1.4	LER
		9	1036	37.75	19	20.03	155	6.82	9.22	2.8	3.2	30	0	110	.11	7	.8	.5	UER
		9	1043	19.61	19	21.39	155	17.04	.26	1.8	2.7	16	0	58	.14	4	.6	.7	KOA
		9	2046	22.11	19	23.35	155	3.67	7.88	2.5	3.0	22	0	108	.11	11	.8	.8	MER
		10	213	10.70	19	28.80	155	52.38	10.26	3.0	2.6	24	0	130	.20	24	1.7	.6	KON
		10	424	23.00	19	17.83	155	16.92	8.99	2.3	2.9	31	0	125	.14	6	.7	.8	KOA
		10	625	18.62	18	48.97	155	13.54	36.33	3.2	4.0	28	2	266	.14	53	2.1	8.1	PPL
		10	858	35.22	19	20.45	155	12.82	7.70	1.6	2.2	24	0	66	.12	6	.7	1.2	UER
		10	2157	47.47	19	20.61	155	8.94	7.69	1.9	2.3	25	0	67	.12	8	.8	1.4	UER
		11	310	49.35	19	25.62	154	57.87	1.30	2.0	2.5	20	2	168	.19	11	1.4	1.9	LER
		11	429	26.78	19	21.36	155	3.39	6.13	2.1	2.5	24	0	112	.12	11	.7	1.2	MER
		11	5 4	30.51	19	22.13	155	4.22	7.61	3.6	4.0	28	0	94	.10	10	.6	.7	MER
		11	632	29.72	19	21.12	155	6.36	9.15	2.6	2.8	29	0	91	.10	7	.6	.4	UER

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	REMK
1976	SEP	11	9 7	52.44	19	26.17	154	56.96	7.23	1.8	2.1	15	0	171	.13	13	1.3	1.5	LER
		11	1340	15.00	19	22.56	155	3.02	7.67	2.2	2.4	25	0	123	.09	12	.7	.6	MER
		11	1343	14.39	19	21.50	155	6.10	8.20	2.1	2.4	22	0	85	.11	7	.7	1.4	UER
		11	18 5	40.11	19	22.71	155	26.87	10.00	1.8	2.3	25	0	52	.09	12	.5	.3	UKF
		11	2352	35.00	19	20.23	155	13.29	8.19	1.8	2.4	22	0	64	.08	6	.5	1.0	UER
		12	357	16.74	19	26.10	154	58.09	3.46	2.1	2.3	14	0	159	.13	11	1.4	1.9	LER
		12	1234	51.87	19	20.08	155	8.51	8.22	2.3	2.9	29	0	77	.13	9	.6	.7	UER
		12	1321	43.29	19	25.81	154	58.01	4.47	2.8	3.3	27	0	164	.18	11	1.4	1.1	LER
		13	3 9	22.53	19	21.98	155	7.39	8.30	2.8	3.0	30	0	70	.11	9	.5	.6	UER
		13	1248	4.32	19	20.90	155	13.10	9.42	2.8	3.4	28	0	59	.11	6	.5	.5	UER
		13	15 8	52.32	19	17.48	155	13.01	9.78	2.4	2.7	28	0	132	.12	9	.9	.5	POL
		13	2352	29.13	19	20.19	155	8.41	8.66	2.3	2.8	28	0	78	.13	9	.6	.8	UER
		14	229	17.68	19	29.06	154	51.98	6.81	2.4	2.9	23	0	264	.18	21	4.0	1.3	LER
		14	1235	57.19	19	20.49	155	4.17	3.63	2.3	2.8	22	0	113	.10	9	.7	1.2	MER
		15	2 1	25.72	19	21.97	155	5.05	8.83	3.6	4.0	32	0	78	.12	8	.8	.5	MER
		15	12 1	7.67	19	23.00	155	5.20	7.67	2.9	3.4	30	0	83	.12	8	.6	.8	MER
		15	1425	48.59	19	22.19	155	6.77	7.44	2.1	2.8	25	0	71	.13	8	.8	1.1	UER
		15	1955	22.63	19	24.87	155	26.11	7.19	2.2	2.6	30	0	55	.15	10	.7	1.7	UKF
		16	617	22.41	19	22.54	155	6.25	7.12	2.4	2.8	29	0	67	.15	8	.8	1.1	UER
		16	936	28.04	19	26.73	154	56.49	1.97	2.4	2.7	16	0	168	.19	14	1.8	36.1	LER
		16	1458	38.48	19	23.15	155	25.26	8.86	2.2	2.8	29	0	55	.13	10	.7	1.0	UKF
		16	1756	56.39	19	20.37	153	39.53	49.87	3.4	3.4	26	0	338	.09	146	59.9	12.7	DIS
		17	230	2.96	19	19.84	155	8.78	8.28	2.5	3.1	28	0	75	.12	9	.6	.6	UER
		17	1147	19.10	19	12.89	155	27.36	9.59	2.8	3.2	29	0	112	.17	15	1.2	.5	LSW
		17	1313	10.77	19	21.63	155	2.71	7.02	2.7	3.1	27	0	136	.14	12	1.0	.8	MER
		17	1815	39.62	19	17.14	155	22.76	7.43	2.2	2.7	30	0	122	.17	7	.9	1.5	SWR
		17	1930	18.72	19	24.74	155	14.95	40.57	2.3		23	0	64	.11	4	1.3	3.8	DEP
		18	2 1	45.88	19	22.28	155	4.69	6.89	2.3	2.6	28	0	86	.13	9	.7	1.1	MER
		18	1114	58.11	19	19.28	155	13.35	6.94	2.2	2.6	30	0	72	.15	7	.8	1.3	UER
		18	1857	17.42	19	19.56	155	12.13	6.94	2.2	2.6	28	0	87	.14	6	.8	1.2	UER
		18	1914	51.75	19	20.52	155	4.87	5.63	2.4	2.7	28	0	114	.13	8	.8	1.2	MER
		19	1544	11.51	19	21.01	155	17.09	1.23	2.0	3.0	13	2	117	.10	4	.7	.4	KOA
		19	2019	26.41	19	23.91	155	2.62	7.50	2.3	2.9	27	0	124	.14	10	1.0	.9	MER
		19	2344	15.17	19	24.02	155	2.98	8.53	2.3	2.8	29	0	117	.12	10	.8	.6	MER
		20	141	19.40	19	20.07	155	7.25	9.24	2.6	3.1	26	0	101	.10	8	.7	.5	UER
		20	1716	38.31	19	21.98	155	6.57	6.60	2.3	2.6	28	0	75	.15	7	.8	1.3	UER
		20	1730	8.99	19	21.40	155	30.29	9.48	2.3	2.6	29	0	38	.13	12	.6	1.0	HEA
		20	1928	25.90	19	21.88	155	16.12	.78	2.0	3.1	21	0	59	.18	4	.7	3.2	KOA
		21	343	27.57	19	20.53	155	6.89	9.09	2.7	3.2	31	0	98	.10	7	.6	.4	UER
		21	935	49.78	19	20.78	155	6.54	9.32	3.2	3.8	29	0	97	.11	7	.7	.5	UER
		21	1621	37.29	19	21.12	155	6.98	6.55	2.4	2.8	25	0	86	.15	7	.9	1.6	UER
		21	19 2	22.92	19	24.88	155	12.74	5.95	2.2	2.5	30	0	46	.14	7	.7	1.2	GLN
		21	2153	2.31	19	19.27	155	16.15	9.35	2.0	2.5	24	0	97	.09	6	.6	.9	KOA
		22	415	3.69	19	20.02	155	11.99	7.07	2.4	2.6	28	0	80	.15	6	.8	1.1	UER
		22	1232	25.30	19	22.13	155	6.29	7.67	2.2	2.6	26	0	73	.13	7	.8	1.0	UER
		22	1718	48.04	19	21.32	155	13.23	9.47	2.2	2.7	27	0	55	.12	6	.6	.7	UER
		23	1521	21.61	19	16.96	155	22.87	6.00	2.1	2.6	25	0	123	.19	8	1.1	3.4	SWR
		24	123	38.61	19	20.03	155	8.68	8.11	2.4	2.7	25	0	74	.14	9	.8	1.0	UER

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	REMK
1976	SEP	24	157	2.29	19	21.20	155	13.37	9.66	2.6	3.1	33	0	54	.11	6	.6	.3	UER
		24	1228	18.91	19	19.90	155	8.12	9.28	1.9	3.1	20	0	86	.10	9	.8	.9	UER
		24	17 4	22.14	19	21.12	155	49.63	12.22	2.6	3.3	24	0	121	.22	18	2.4	.9	KON
		24	2251	31.28	19	20.61	155	6.68	8.95	2.9	3.7	32	0	99	.11	7	.7	.5	UER
		25	4 2	.06	19	27.33	155	21.50	6.01	2.3	3.3	24	0	78	.15	9	.7	2.2	UKF
		25	1554	55.88	19	26.77	155	23.09	10.24	3.0	3.2	23	0	74	.12	11	.6	.9	UKF
		25	1720	50.41	19	20.43	155	6.84	9.07	2.7	3.3	26	0	101	.11	7	.8	.5	UER
		26	650	44.95	19	24.75	155	26.23	8.54	2.3	3.2	24	0	60	.14	11	.9	1.5	UKF
		26	1834	20.45	19	20.96	155	11.21	7.76	2.3	2.7	25	0	69	.13	8	.8	1.2	UER
		27	331	14.06	18	53.28	155	7.41	40.43	2.7	1.6	35	5	260	.14	47	2.4	4.7	PPL
		27	846	57.71	19	25.51	155	25.78	10.29	2.9	3.2	32	0	48	.12	11	.6	.3	UKF
		27	12 7	54.08	19	19.69	155	12.59	8.60	2.7	3.1	27	0	79	.15	7	.9	1.0	UER
		27	22 8	42.13	19	22.77	155	6.27	7.47	2.6	3.0	30	0	69	.13	8	.7	1.0	UER
		27	2232	18.48	19	22.20	155	4.56	7.50	2.3	2.6	28	0	88	.09	9	.5	.7	MER
		28	431	50.65	19	18.05	155	23.01	9.15	2.3	2.7	31	0	112	.12	8	.5	.5	SWR
		28	914	53.40	19	20.00	155	13.13	10.04	3.7	4.2	34	0	68	.10	7	.6	.2	UER
		28	10 2	49.26	19	20.24	155	8.04	8.99	2.4	2.7	27	0	84	.10	9	.7	.4	UER
		28	1437	30.09	19	19.38	155	13.96	7.88	2.1	2.7	27	0	64	.12	6	.7	1.1	UER
		28	1722	32.47	19	24.64	155	.56	7.64	2.6	2.9	28	0	147	.14	10	1.0	.8	LER
		28	1936	41.81	19	22.21	155	5.09	6.20	2.2	2.7	28	0	79	.12	8	.7	1.1	MER
		29	1258	3.96	19	21.97	155	5.10	8.69	3.3	3.8	29	0	77	.11	8	.8	.5	MER
		30	240	26.94	19	20.98	155	13.19	7.92	2.0	2.6	30	0	58	.15	6	.7	.9	UER
		30	1532	46.37	19	41.98	155	2.86	11.10	2.7	2.5	10	0	248	.38	29	12.4	3.8	HIL
		30	2242	37.12	19	21.95	155	7.02	6.81	2.2	2.4	25	0	73	.14	8	.8	1.2	UER
	OCT	1	114	10.59	19	21.38	155	1.71	6.65	2.7	3.3	30	0	171	.12	13	1.0	.8	MER
		1	6 8	44.92	19	19.51	155	12.11	8.78	2.4	3.0	27	0	89	.14	6	.9	1.1	UER
		1	1250	5.10	19	18.93	155	15.04	7.86	1.7	2.4	23	0	90	.10	7	.6	1.0	KOA
		1	1723	18.19	19	20.51	155	9.92	8.76	2.1	2.6	26	0	75	.09	7	.6	.7	UER
		2	6 8	1.00	19	17.28	155	21.02	7.40	1.7	2.5	26	0	128	.13	8	.8	1.2	SWR
		2	1345	12.60	19	20.88	155	13.14	8.02	1.7	2.4	24	0	59	.12	6	.7	1.1	UER
		3	633	45.09	19	25.65	155	25.07	8.09	2.8	3.2	30	0	55	.14	10	.8	1.2	UKF
		3	753	8.58	19	19.79	155	7.26	9.29	3.4	3.6	31	0	107	.11	8	.8	.5	UER
		3	758	31.21	19	19.96	155	7.26	7.96	2.2	2.8	23	0	103	.07	8	.4	.6	UER
		3	1721	45.50	19	20.32	155	8.02	9.55	3.1	3.6	31	0	84	.10	9	.6	.3	UER
		4	518	52.57	19	20.69	155	6.51	8.80	3.0	3.4	31	0	99	.10	7	.7	.5	UER
		4	534	4.72	19	20.09	155	12.09	7.22	2.2	2.7	27	0	78	.14	6	.8	1.1	UER
		5	558	50.57	19	20.11	155	6.59	9.45	3.8	4.1	30	0	112	.11	7	.8	.5	UER
		5	955	39.64	19	22.19	155	4.79	7.46	3.5	3.9	30	0	84	.10	9	.5	.7	MER
		5	16 7	50.67	20	.63	155	32.92	40.40	2.8	2.4	33	0	183	.15	27	1.6	4.1	KOH
		6	822	12.93	19	18.17	155	23.49	6.08	2.6	3.6	30	0	109	.18	9	.9	2.0	SWR
		6	938	9.78	19	20.48	155	11.52	8.79	2.2	2.8	25	0	75	.10	7	.6	.8	UER
		6	1758	12.54	19	14.99	155	27.91	8.19	2.4	2.7	27	0	132	.15	14	1.3	1.4	LSW
		6	1914	18.17	19	19.18	155	11.42	9.72	2.5	3.0	28	0	103	.12	7	.9	.4	UER
		7	311	37.96	19	22.68	155	5.39	9.26	3.5	3.9	31	0	79	.10	8	.6	.4	MER
		7	6 3	44.37	19	20.77	155	4.23	7.07	2.4	3.0	28	0	101	.11	9	.7	.8	MER
		7	1051	7.96	19	20.25	155	9.06	8.84	2.7	3.4	31	0	72	.12	8	.7	.6	UER
		7	18 1	29.87	19	22.36	155	5.46	7.29	2.1	2.6	26	0	75	.14	8	.8	1.2	MER
		7	2152	58.47	19	1.68	155	28.52	34.10	3.3	3.3	39	4	203	.14	27	1.2	2.3	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	REMK
1976	OCT	7	22 9	14.10	19	22.00	155	6.20	6.90	2.4	2.8	29	0	76	.15	7	.9	1.4	UER
		8	1358	8.12	19	19.79	155	8.58	9.29	2.5	3.2	25	0	77	.11	9	.7	.5	UER
		8	1629	29.80	19	33.19	155	51.58	26.50	3.3	3.3	37	2	147	.18	15	1.3	2.8	KON
		8	2253	53.01	19	23.12	155	6.72	9.17	3.2	3.7	29	0	66	.12	9	.7	.7	GLN
		9	1611	53.75	19	22.74	155	29.85	9.87	2.9	3.2	31	0	88	.16	14	.9	.4	UKF
		10	5 1	26.28	19	30.12	155	15.37	9.40	2.2	2.7	31	0	101	.15	13	.7	1.1	GLN
		10	650	59.26	19	20.57	155	4.54	6.43	2.0	3.1	28	0	112	.14	8	.8	1.2	MER
		10	1217	16.39	19	22.12	155	6.45	7.12	2.4	2.6	23	0	73	.15	9	.9	1.4	UER
		10	13 5	45.84	19	21.56	155	8.13	9.31	2.6	3.4	29	0	69	.11	9	.7	.5	UER
		10	1740	38.75	19	19.56	155	11.03	8.26	2.2	2.6	25	0	95	.11	7	.7	.9	UER
		10	1931	50.85	19	24.02	155	27.76	9.21	2.5	3.0	32	0	44	.17	13	.8	1.4	UKF
		11	1619	5.05	19	21.00	155	11.17	9.61	2.2	2.6	24	0	76	.11	8	.8	.5	UER
		11	1619	57.69	19	23.44	155	2.60	7.78	2.2	2.5	23	0	127	.12	11	.8	1.0	MER
		11	1621	5.02	19	23.43	155	2.08	8.71		1.2	9	0	136	.06	10	.8	1.8	MER
		11	2011	47.47	19	29.51	155	43.95	10.18	2.3	2.5	21	0	69	.17	14	1.1	.6	MOK
		12	1437	51.22	19	11.69	155	28.32	6.91	2.2	2.7	20	0	112	.19	16	1.4	3.2	LSW
		12	19 8	39.31	19	20.50	155	3.80	5.78	2.0	2.3	22	0	105	.16	9	1.1	1.4	MER
		12	1914	14.39	19	27.27	155	14.65	31.91	2.5	2.9	32	0	53	.10	8	.7	1.8	DEP
		12	23 4	48.64	19	53.05	155	6.89	30.22	2.4	2.0	32	6	241	.15	38	1.3	1.6	KKU
		13	18 8	2.45	19	20.30	155	16.46	30.62	2.5	2.8	33	0	82	.10	6	.8	1.4	DEP
		13	2120	48.49	19	22.93	155	4.75	7.61	2.4	2.7	24	0	89	.10	9	.5	.8	MER
		13	2237	40.67	19	20.27	155	11.90	9.04	1.7	2.5	26	0	77	.13	7	.7	.9	UER
		13	2328	39.99	19	17.04	155	23.32	6.52	1.9	2.9	24	0	120	.16	8	.9	2.1	SWR
		14	819	48.75	19	26.51	154	55.23	9.05	2.8	3.3	16	0	192	.15	16	2.4	1.3	LER
		14	950	49.25	19	15.19	155	18.97	49.01	2.3	2.2	31	0	158	.11	10	1.4	3.2	HLP
		14	1211	17.59	19	19.35	155	12.53	7.63	2.0	2.7	23	0	86	.13	7	.8	1.4	UER
		14	1336	20.13	19	25.24	155	17.17	9.16	1.2	1.9	10	0	147	.11	5	1.7	2.6	LPC
		14	1417	8.59	19	22.19	155	5.00	7.47	2.0	2.7	23	0	92	.11	8	.7	.9	MER
		14	1815	56.20	19	27.54	155	21.27	6.92	2.7	3.0	27	0	50	.12	9	.6	1.2	UKF
		14	1818	16.87	19	27.41	155	21.61	6.29	2.4	2.8	23	0	86	.12	9	.6	1.7	UKF
		14	2317	6.95	19	22.67	155	5.12	9.09	2.7	3.5	28	0	82	.12	8	.8	.8	MER
		15	020	38.91	19	19.55	155	13.95	7.73	2.5	3.2	29	0	63	.14	6	.8	1.1	UER
		15	148	28.41	19	24.16	155	26.60	9.53	2.1	2.8	30	0	49	.11	12	.5	.4	UKF
		15	1256	17.65	19	15.54	155	33.64	8.20	2.5	3.0	23	0	173	.19	17	1.7	1.9	LSW
		15	2355	13.79	19	26.94	155	24.56	7.55	2.6	3.1	26	0	58	.13	10	.7	1.6	UKF
		16	1921	20.53	19	20.28	155	9.75	9.11	2.1	2.3	23	0	78	.08	7	.5	.6	UER
		17	312	22.68	19	19.63	155	12.22	10.04	2.5	3.3	26	0	85	.09	6	.6	.3	UER
		17	557	16.75	19	20.04	155	8.27	9.33	2.7	3.6	29	0	82	.10	9	.6	.4	UER
		17	949	11.99	19	21.60	155	6.07	8.78	2.6	3.6	26	0	83	.12	7	.7	.9	UER
		17	15 8	26.18	19	21.96	155	27.94	9.58	2.8	3.3	31	0	54	.15	10	.8	.4	HEA
		17	2242	15.07	19	22.09	155	5.06	7.96	2.0	2.6	24	0	79	.08	8	.5	.8	MER
		17	2245	7.10	19	20.74	155	4.25	6.29	2.0	2.7	23	0	102	.09	9	.6	.7	MER
		18	044	30.52	19	5.14	155	27.64	44.67	2.4	2.4	25	2	185	.11	24	1.7	1.4	LSW
		18	128	50.67	19	26 32	155	25.94	9.55	2.3	2.9	32	0	32	.12	12	.5	.5	UKF
		18	133	50.08	19	23.87	155	26.87	9.43	2.1	2.9	26	0	53	.12	13	.6	.7	UKF
		18	739	15.52	19	26.63	154	56.35	4.92	2.4	2.9	26	4	172	.20	14	1.3	1.4	LER
		18	1754	8.90	19	19.62	155	11.69	7.39	2.0	2.9	27	0	91	.14	6	.8	1.2	UER
		18	1932	50.31	19	37.23	155	48.93	11.15	1.8	2.4	20	0	126	.16	27	1.3	.6	KON

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	REMK
1976	OCT	18	2249	24.00	19	31.39	155	58.23	9.80	2.4	2.7	17	0	237	.15	23	3.0	.6	KON
		19	2 5	45.98	19	26.14	154	55.82	8.27	2.7	3.2	21	0	187	.12	15	1.4	.8	LER
		19	457	23.72	19	19.82	155	52.42	10.80	2.7	2.9	19	0	167	.17	22	1.6	.6	KON
		19	851	1.02	19	22.31	155	4.68	7.04	2.0	2.5	26	0	87	.11	9	.6	.8	MER
		19	1037	26.00	19	17.90	155	24.10	7.21	1.8	2.7	21	0	108	.15	10	1.0	1.9	SWR
		19	2311	50.41	19	20.31	155	6.99	9.03	2.7	3.6	28	0	101	.11	7	.7	.6	UER
		20	237	28.37	18	50.09	155	10.55	51.18	2.8	2.9	31	3	265	.12	50	2.7	3.3	PPL
		20	327	6.96	19	17.82	155	21.02	5.16	1.7	2.9	21	0	122	.11	8	.7	1.1	SWR
		21	154	22.20	20	12.87	155	49.77	27.95		2.3	14	4	304	.14	62	2.6	1.3	KOH
		21	2 2	23.77	19	27.32	154	53.35	8.24	1.6	2.6	20	0	233	.15	19	3.0	1.2	LER
		21	225	25.95	19	27.18	154	51.82	8.48	2.9	3.5	30	0	267	.09	22	1.7	.5	LER
		21	9 6	29.70	19	24.09	155	23.13	11.57		3.2	24	0	83	.07	8	.5	.2	UKF
		21	953	33.30	19	21.31	155	26.21	9.79	2.0	2.7	23	0	71	.15	9	.7	.8	HEA
		21	1322	24.64	19	19.80	155	7.99	8.48	2.0	2.8	25	0	90	.10	9	.8	.6	UER
		22	1019	41.56	19	23.96	155	50.24	11.52	1.9	2.4	15	0	126	.15	15	1.3	.6	KON
		22	1030	24.34	19	20.28	155	6.56	8.02	1.9	3.0	23	0	108	.11	7	.7	1.3	UER
		22	1242	49.14	19	19.79	155	11.50	9.44	2.7		25	0	88	.12	6	.8	.8	UER
		22	1243	23.91	19	20.29	155	11.42	10.38	3.4	4.1	12	0	104	.16	8	1.4	2.0	UER
		22	14 5	30.73	19	22.06	154	59.97	5.55		2.3	18	0	190	.14	11	1.4	2.0	LER
		22	1411	25.90	19	21.20	155	3.33	8.19	3.5	3.9	28	0	113	.11	11	.9	.6	MER
		22	16 0	15.12	19	19.26	155	11.75	7.30	2.0	2.6	28	0	98	.12	7	.7	1.1	UER
		22	1624	40.51	19	20.04	155	11.53	9.75	2.1	3.0	23	0	83	.10	7	.7	.3	UER
		23	919	6.64	19	20.49	155	5.31	6.30	2.0	2.8	24	0	114	.14	8	.8	1.5	MER
		23	19 4	17.91	19	19.60	155	14.25	8.06	2.2	2.9	24	0	68	.12	6	.8	1.3	UER
		24	1 9	54.38	19	19.66	155	16.17	9.38	1.5	2.1	18	0	98	.07	5	.6	1.0	KOA
		24	2 0	53.33	19	28.18	154	54.39	8.15	1.8	2.3	18	2	172	.21	17	1.9	1.4	LER
		24	519	46.49	19	20.02	155	8.19	9.32	2.6	3.5	26	0	84	.10	9	.7	.5	UER
		24	622	44.73	19	20.01	155	6.34	5.82	2.1	2.6	24	0	118	.14	7	.9	2.1	UER
		24	818	53.98	19	22.14	155	.24	5.64	2.5	3.4	27	0	185	.13	11	1.1	1.4	LER
		24	833	54.79	19	22.29	154	59.87	5.10		2.2	14	0	188	.12	10	1.6	1.1	LER
		24	1245	27.08	19	18.83	155	22.31	7.74	2.3	3.1	24	0	105	.15	9	.9	1.8	SWR
		24	1841	23.82	19	27.44	155	14.96	31.31	2.4	2.6	31	0	52	.11	8	.9	2.0	DEP
		24	2010	26.46	19	21.19	155	7.83	7.48	1.8	2.4	23	0	76	.12	9	.7	1.1	UER
		24	21 6	1.26	19	26.58	154	54.04	9.55	1.9	2.1	14	0	217	.15	18	3.0	.7	LER
		25	247	25.47	19	10.61	155	33.34	10.16	2.9	3.4	28	3	134	.15	23	1.0	.4	LSW
		25	525	11.76	19	19.82	155	11.81	6.79	1.8	2.6	27	0	85	.15	6	.8	1.3	UER
		25	526	1.86	19	21.00	155	8.48	6.43	1.8	2.4	19	0	70	.18	9	1.2	2.5	UER
		25	2321	51.81	19	23.33	155	3.25	7.56		2.3	23	0	116	.12	12	.9	.7	MER
		25	2323	39.05	19	22.80	155	5.03	8.63	2.5	3.2	29	0	84	.10	9	.6	.5	MER
		25	2344	50.84	19	23.25	155	3.49	6.53		2.3	20	0	111	.13	11	.7	1.3	MER
		26	657	44.92	19	20.38	155	8.83	8.52	2.0	2.8	24	0	138	.09	10	.6	.7	UER
		26	7 7	25.35	19	21.74	155	15.18	9.98	3.3	3.6	27	0	62	.11	4	.7	.5	KOA
		26	738	40.84	19	20.48	155	6.94	7.32	1.9	2.6	23	0	98	.12	7	.9	1.3	UER
		26	754	41.58	19	19.73	155	8.28	8.91	2.1	2.9	24	0	85	.08	9	.6	.5	UER
		26	839	17.80	19	19.75	155	8.31	8.82	2.3	3.2	28	0	84	.10	9	.7	.5	UER
		26	17 4	24.75	19	23.81	155	2.88	8.45	2.5	2.2	16	0	120	.10	11	.8	1.0	MER
		27	431	43.91	19	17.69	155	15.83	9.23	2.8	3.4	31	0	124	.14	5	.7	.8	KOA
		27	536	57.17	19	19.58	155	15.57	7.52	1.7	2.6	24	0	87	.11	6	.6	.9	KOA

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	REMK
1976	OCT	27	1224	6.58	19	20.74	155	7.15	8.73	2.2	3.3	25	0	91	.10	8	.6	.8	UER
		27	2151	55.51	19	19.37	155	15.59	8.28	1.6	2.6	20	0	90	.08	6	.5	1.0	KOA
		27	23 7	56.51	19	22.22	155	3.07	7.39		2.6	20	0	122	.11	12	.7	.9	MER
		28	041	27.13	19	31.19	155	29.70	6.20	2.4	3.3	28	0	71	.18	11	.8	2.7	NER
		28	523	59.88	19	23.32	155	2.97	7.44	1.8	2.5	24	0	121	.17	11	1.1	1.5	MER
		28	654	13.13	19	20.02	155	8.56	8.42	1.8	3.0	25	0	76	.12	9	.7	.8	UER
		28	1355	4.31	19	19.31	155	15.66	8.94	1.8	2.6	17	0	107	.07	6	.5	1.0	KOA
		28	1550	20.88	19	21.22	155	11.13	8.72	2.4	3.3	21	0	86	.12	9	.8	1.6	UER
		28	2115	42.14	19	47.34	156	6.27	27.21	2.0	2.2	19	3	245	.12	51	1.7	2.4	KON
		29	349	37.04	19	29.88	154	51.33	4.03	2.3	3.0	19	2	267	.17	22	2.1	1.2	LER
		29	355	23.61	19	59.00	155	29.64	35.77	2.3	2.5	38	4	184	.16	34	1.2	2.0	KKU
		29	1915	42.40	19	27.77	154	52.22	7.97	2.7	2.6	25	1	264	.17	21	2.2	1.1	LER
		30	045	4.00	19	21.49	155	7.29	8.05	2.4	3.0	27	0	78	.13	8	.7	1.0	UER
		30	427	3.82	19	20.46	155	7.96	7.64	2.0	2.3	21	0	83	.09	9	.6	.8	UER
		30	9 3	54.74	19	19.89	155	8.41	8.22	2.2	3.1	27	0	80	.09	10	.5	.5	UER
		30	1538	56.43	19	26.14	155	24.11	10.63	2.0	2.8	23	0	66	.11	9	.6	.7	UKF
		30	1810	37.14	19	29.21	155	53.48	9.67	1.9	2.3	15	0	101	.14	23	1.5	.6	KON
		31	349	34.14	19	20.30	155	13.16	9.16	2.1	2.8	27	0	64	.13	6	.8	.9	UER
		31	610	19.67	19	20.07	155	11.40	9.37		2.4	23	0	83	.08	7	.5	.6	UER
		31	13 8	17.70	19	23.44	154	59.07	5.89	1.6	2.1	13	0	181	.12	9	1.7	3.3	LER
		31	1649	45.78	19	20.39	155	7.71	7.47		2.4	21	0	88	.10	8	.7	1.3	UER
		31	2149	10.28	19	9.11	155	33.51	34.26		2.5	28	0	125	.14	18	1.5	3.8	LSW
	NOV	1	151	46.87	19	28.31	155	22.82	5.71	2.2	2.7	22	0	69	.14	12	.8	2.0	UKF
		1	442	1.53	19	18.76	155	29.13	9.50	2.4	3.3	28	0	39	.15	11	.9	1.1	HEA
		1	746	10.02	19	29.77	154	53.55	3.69	1.7	2.6	16	0	203	.17	18	3.4	2.3	LER
		1	746	10.02	19	29.77	154	53.55	3.69	1.7	2.6	16	0	203	.17	18	3.4	2.3	LER
		1	813	50.79	19	19.76	155	12.00	7.16	2.0	2.8	16	0	85	.16	6	1.2	3.3	UER
		1	10 1	23.83	19	21.14	155	6.69	6.81	1.8	2.7	22	0	88	.12	7	.7	1.5	UER
		1	12 6	42.52	19	31.40	155	29.79	8.38	2.3	3.0	22	0	100	.16	12	.9	2.7	NER
		1	1533	42.80	19	41.88	155	2.97	1.15	2.0	2.8	10	0	248	.14	32	3.8	53.9	HIL
		1	1617	56.56	19	26.02	155	24.73	8.30	1.7	2.7	24	0	58	.16	10	.9	1.9	UKF
		2	1410	32.35	19	56.54	155	49.39	27.97	2.4	2.7	29	4	181	.16	42	1.5	1.9	KOH
		2	1756	55.87	19	25.95	154	54.99	8.42		1.7	13	2	223	.12	16	2.0	.9	LER
		2	1815	46.37	19	19.10	155	13.42	10.12	3.7	4.0	29	0	73	.08	7	.5	.2	UER
		2	1915	4.41	19	26.81	154	53.90	9.95		1.5	13	0	230	.17	18	3.8	.9	LER
		2	1936	16.05	19	22.50	155	5.86	8.74	3.3	3.7	29	0	71	.12	7	.7	.7	MER
		2	2230	6.49	19	19.48	155	15.96	8.42	1.7	2.6	24	0	92	.11	5	.7	1.0	KOA
		3	219	26.43	20	18.63	155	51.04	25.97		2.3	7	2	317	.04	72	3.6	3.4	DIS
		3	331	51.36	19	20.70	155	5.81	8.14		2.4	23	0	105	.11	8	.7	.8	MER
		3	432	28.66	19	27.41	154	54.62	5.13	2.0	2.4	17	2	188	.15	17	1.8	1.3	LER
		3	740	57.15	19	20.83	155	6.91	5.98		2.4	21	0	92	.15	7	1.0	2.0	UER
		3	755	23.35	19	20.87	155	9.70	8.59	1.9	2.7	26	0	68	.12	7	.6	.6	UER
		3	19 3	51.33	19	19.88	155	16.48	35.27	2.2	2.3	31	0	91	.09	5	.8	1.5	DEP
		4	238	59.98	19	20.78	155	6.19	8.02	1.9	2.7	26	0	100	.11	7	.6	.9	UER
		4	313	43.13	19	26.62	155	23.39	7.42	2.0	2.6	27	0	95	.14	11	.8	1.5	UKF
		4	315	31.39	19	20.86	155	11.48	7.00	1.8	2.6	13	0	79	.09	9	.9	1.8	UER
		4	324	18.85	19	25.36	154	56.12	9.74	1.5	2.2	12	0	219	.11	14	2.4	.6	LER
		4	358	26.17	19	19.31	155	11.56	7.35	1.7	2.4	22	0	99	.11	7	.7	1.4	UER

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	REMK
1976	NOV	4	413	37.02	19	20.69	155	3.13	6.55		2.4	18	0	117	.10	10	1.1	1.5	MER
		4	623	1.37	19	19.94	155	10.30	9.57	2.0	2.8	23	0	87	.10	7	.8	.3	UER
		4	10 3	59.29	19	22.32	155	2.67	7.04	2.0	2.3	21	0	132	.11	12	.9	.7	MER
		4	1024	12.35	19	19.71	155	8.59	8.79		2.6	21	0	78	.10	10	.7	.8	UER
		4	1444	55.87	19	24.38	155	16.14	2.59	2.3	3.1	19	0	115	.13	3	.8	2.4	SPC
		4	16 8	48.74	19	21.08	155	6.66	7.89	3.0	3.1	27	0	90	.13	7	.8	.8	UER
		4	1748	16.84	19	19.79	155	17.04	8.21	1.5	2.5	17	0	90	.13	5	1.1	1.7	KOA
		4	2248	54.88	19	19.81	155	7.69	8.82	2.4	3.1	25	0	97	.11	8	.7	.6	UER
		5	223	44.13	19	25.29	154	58.03	5.94		2.1	12	0	170	.06	11	.7	.9	LER
		5	258	29.68	19	21.38	155	8.19	8.37	2.7	3.4	27	0	70	.12	9	.6	.7	UER
		5	621	14.13	19	15.31	155	22.90	3.45		2.7	24	0	137	.14	9	.9	1.7	LSW
		5	1134	27.13	19	19.41	155	15.52	9.72	2.7	3.3	26	0	88	.09	6	.5	.6	KOA
		5	1257	6.56	19	21.94	155	6.98	7.83	2.0	2.6	23	0	73	.12	8	.7	1.0	UER
		5	1347	48.53	19	22.97	154	58.54	5.04	2.0	2.3	16	0	194	.14	10	2.4	1.4	LER
		5	1446	58.16	19	19.91	155	11.78	9.25		2.1	22	0	84	.08	6	.6	.9	UER
		5	20 9	9.86	19	23.86	154	57.91	7.70		2.4	17	0	190	.15	11	2.0	1.4	LER
		5	2041	33.38	19	21.04	155	16.09	34.12	2.7	2.8	32	0	70	.09	5	.7	1.6	DEP
		5	21 4	1.40	19	28.02	155	23.17	5.64	1.8	2.6	23	0	50	.12	12	.6	2.2	UKF
		6	613	36.76	19	22.20	155	25.36	9.65	1.6	2.5	22	0	57	.14	10	.9	.9	UKF
		6	1211	14.62	19	31.39	155	29.90	5.61	2.5	2.8	24	0	101	.16	11	.8	8.5	NER
		6	13 9	54.50	19	19.80	155	7.20	8.34	2.0	2.4	26	0	108	.12	8	.7	.8	UER
		6	1412	14.23	19	22.92	155	4.72	8.22	2.1	2.4	21	0	90	.08	12	.4	.7	MER
		6	1450	54.92	19	22.31	155	.05	7.05		2.0	16	0	185	.10	10	1.1	1.2	LER
		6	1738	37.07	19	28.01	154	52.20	7.44	1.8	2.5	19	3	264	.15	21	1.6	1.0	LER
		6	1835	41.51	19	21.26	155	2.55	7.31	2.1	2.5	20	0	147	.08	12	.9	.6	MER
		6	2340	47.26	19	23.58	155	25.04	9.75	3.3	3.6	30	0	57	.12	9	.6	.5	UKF
		7	237	55.24	19	20.86	155	12.18	9.66	2.0	2.9	24	0	67	.09	7	.6	.4	UER
		7	648	39.25	19	19.68	155	6.85	8.71	2.1	2.8	25	0	117	.09	7	.6	.5	UER
		7	725	32.18	19	23.38	155	16.98	1.62	1.0	2.1	10	0	63	.10	3	.7	.3	SPC
		7	727	30.26	19	24.16	155	16.02	1.59	1.8	2.5	15	0	113	.10	3	.5	.3	SPC
		7	1050	25.98	19	19.50	155	12.23	7.16	2.0	2.7	21	0	88	.12	6	1.0	1.5	UER
		7	11 1	13.83	19	22.08	154	58.21	7.81	2.2	2.6	14	0	209	.06	12	1.0	.7	LER
		7	1536	37.69	19	19.45	155	11.66	7.59	1.7	2.7	23	0	94	.12	6	.8	1.5	UER
		7	1623	.27	19	20.11	155	18.82	29.06		2.4	29	0	54	.09	7	.8	1.5	DEP
		7	1854	56.85	19	15.54	155	34.53	8.80	2.2	3.0	21	0	169	.20	18	1.6	2.7	HEA
		8	015	24.88	19	19.78	155	7.64	7.38	1.9	2.8	25	0	98	.13	8	.8	1.5	UER
		8	434	7.94	19	20.49	155	11.11	9.18	1.7	2.6	22	0	77	.09	8	.6	.9	UER
		8	645	46.31	19	20.05	155	13.18	9.66	1.8	2.5	24	0	67	.11	6	.7	.5	UER
		8	1250	18.48	19	22.16	155	30.12	9.82	1.8	2.4	21	0	72	.10	12	.7	3.2	MOK
		8	1315	6.64	19	23.30	155	17.21	1.52	1.4	2.5	12	0	57	.08	3	.5	.3	SPC
		8	1818	20.39	19	18.93	155	13.53	9.65	1.7	2.7	22	0	72	.11	7	.7	.7	POL
		8	1916	18.84	19	23.02	155	4.35	7.54	1.6	2.5	17	0	96	.10	10	.7	1.5	MER
		8	1951	5.80	19	22.36	155	6.00	7.92	2.9	3.7	29	0	70	.10	7	.5	.7	UER
		9	040	2.31	19	26.05	154	56.15	7.21	1.6	2.2	13	0	184	.06	14	.7	.9	LER
		9	516	25.14	19	22.71	155	4.62	7.36		2.6	24	0	90	.12	9	.6	.9	MER
		9	813	11.48	19	20.99	155	13.19	8.61		2.5	20	0	58	.11	6	.8	1.4	UER
		9	12 7	8.24	19	26.02	154	54.58	8.63	1.9	2.7	14	0	211	.20	17	4.2	2.0	LER
		9	1419	44.59	19	19.08	155	13.92	10.04	1.7	2.7	23	0	88	.12	7	1.0	.4	UER

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	REMK
1976	NOV	9	1533	3.39	19	20.60	155	4.14	8.06	3.8	4.1	32	0	107	.12	9	.9	.6	MER
		9	1717	32.00	19	20.74	155	3.67	6.84	2.0	2.6	21	0	96	.10	9	1.0	1.2	MER
		9	1728	43.41	19	20.87	155	3.80	6.81	2.0	2.7	19	0	89	.10	10	.7	1.3	MER
		9	1741	28.81	19	20.08	155	8.39	8.26	1.7	2.5	24	0	79	.09	9	.5	.7	UER
		9	2034	15.64	19	20.59	155	6.37	8.85	2.0	2.7	26	0	103	.10	7	.7	.8	UER
		9	2034	58.98	19	20.15	155	7.40	10.08	1.8	2.7	17	0	97	.11	8	1.0	1.4	UER
		9	2056	7.84	19	20.09	155	6.88	7.89	1.8	2.6	22	0	107	.12	7	.8	1.0	UER
		10	015	34.81	19	23.88	155	16.93	1.71	1.6	2.7	16	0	76	.06	3	.3	.2	SPC
		10	632	14.88	19	21.90	155	4.41	8.45	2.0	2.7	20	0	88	.11	10	.8	1.3	MER
		10	1047	26.68	19	20.86	155	11.54	10.01	1.7	2.7	21	0	73	.10	8	.7	.4	UER
		10	12 1	6.21	19	20.90	155	11.79	10.01	2.0	2.7	23	0	68	.08	8	.6	.3	UER
		10	12 5	28.09	19	4.70	155	23.12	24.26	2.4	2.7	30	4	208	.18	26	1.8	3.5	LSW
		10	1815	16.62	19	20.71	155	11.73	9.94	3.1	3.7	29	0	71	.10	7	.7	.3	UER
		11	058	35.60	19	19.50	155	22.10	5.18	1.4	2.7	19	0	120	.08	8	.5	.8	SWR
		11	224	.30	19	27.31	154	50.41	8.91		2.0	9	0	290	.11	24	5.9	1.3	LER
		11	239	39.05	19	20.64	155	12.59	7.62	1.6	2.5	25	0	66	.16	7	.9	1.5	UER
		11	437	56.93	19	45.58	154	56.39	35.85	2.5	2.6	33	3	235	.17	31	1.9	2.5	HIL
		11	716	27.18	19	21.41	155	4.99	7.45	2.1	2.8	24	0	87	.13	9	.8	1.1	MER
		11	932	29.44	19	19.39	155	11.62	10.16	1.9	3.0	21	0	96	.09	7	.7	.5	UER
		11	1222	23.64	19	23.89	155	16.93	1.75	1.9	3.3	17	0	67	.06	3	.3	.2	SPC
		11	1236	10.71	19	21.49	155	3.53	7.17	1.8	2.7	15	0	123	.09	11	1.0	1.3	MER
		11	1313	10.42	19	23.22	155	17.08	1.63	.9	1.8	10	0	82	.04	3	.3	.1	SPC
		11	14 0	41.65	19	23.32	155	17.02	1.76	1.8	3.1	15	0	61	.06	3	.3	.2	SPC
		11	2249	14.00	19	22.10	155	6.99	6.81	1.8	2.4	21	0	71	.11	8	.7	1.5	UER
		12	059	37.05	19	27.66	154	55.37	5.13		1.6	8	0	182	.11	15	1.9	1.3	LER
		12	220	18.69	19	25.75	154	54.64	8.37		1.8	9	0	238	.12	17	3.5	2.2	LER
		12	222	44.23	19	27.56	154	50.71	7.68		2.1	9	0	289	.19	23	11.9	2.3	LER
		12	319	12.69	19	27.28	155	26.81	9.43	1.9	2.7	22	0	63	.09	14	.5	.9	UKF
		12	722	55.05	19	23.56	155	16.91	1.77	1.1	2.1	9	0	69	.06	3	.5	.3	SPC
		12	1654	46.51	19	21.34	155	2.46	7.12	3.5	4.1	31	0	148	.13	12	1.0	.7	MER
		12	20 7	21.45	19	56.64	155	36.00	11.20	3.5		26	0	145	.14	28	1.9	.7	KOH
		12	20 8	44.96	19	57.41	155	22.84	8.23	2.7	2.8	19	0	193	.15	40	1.8	1.1	KKU
		13	918	49.51	19	13.99	155	17.17	11.03	2.1		12	0	242	.08	16	1.8	4.5	HLP
		13	1114	3.35	19	21.97	155	5.07	9.18	3.7	4.1	28	0	77	.11	8	.7	.6	MER
		13	2050	29.48	19	26.25	155	23.13	8.13	2.0	2.7	26	0	80	.15	10	.8	1.5	UKF
		14	419	23.06	19	25.52	155	16.52	15.46	3.0	3.3	31	0	48	.07	4	.5	.7	DEP
		14	5 9	13.44	19	19.16	155	16.56	9.52	2.2	3.2	28	0	102	.12	6	.8	1.3	KOA
		14	522	45.80	19	23.26	155	16.87	1.79	1.7	2.6	16	0	46	.12	3	.7	.3	SPC
		14	12 0	51.05	19	21.30	155	2.32	6.85	2.1	3.0	22	0	154	.10	12	1.0	.8	MER
		14	1817	5.50	19	26.35	154	52.34	8.14	2.4	3.0	18	2	259	.10	21	1.2	.7	LER
		14	2040	36.96	19	20.18	155	8.52	8.83	2.3	3.0	28	0	76	.13	9	.6	.7	UER
		14	2325	14.40	19	23.66	155	16.89	1.78	1.3	2.7	14	0	67	.06	3	.3	.2	SPC
		15	233	42.09	19	23.40	154	58.30	6.03	1.9	2.9	20	0	191	.17	11	1.9	1.6	LER
		15	5 3	6.85	19	9.95	155	40.19	8.16	2.5	2.9	17	2	206	.22	22	2.0	4.1	HEA
		15	917	7.99	19	20.80	155	13.02	8.22		2.3	18	0	69	.12	6	1.0	1.8	UER
		15	1035	59.09	19	21.07	155	8.43	8.36	2.7	3.2	28	0	70	.11	9	.6	.7	UER
		15	1316	45.28	19	22.02	155	5.73	7.59	1.7	2.6	22	0	79	.10	7	.6	1.0	MER
		15	2252	45.71	19	24.11	155	16.09	1.36	1.5	2.6	14	0	110	.06	3	.3	.2	SPC

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	REMK
1976	NOV	16	040	34.83	19	24.14	155	16.14	1.61	1.5	2.7	12	0	119	.07	3	.5	.3	SPC
		16	056	29.30	19	22.38	155	4.87	8.16	2.2	3.0	23	0	84	.13	9	.9	.9	MER
		16	223	35.43	19	22.59	155	4.70	9.20	3.6	4.1	32	0	88	.12	9	.8	.5	MER
		16	3 6	20.89	19	14.42	155	37.56	9.37	1.8	2.6	17	0	105	.20	19	1.5	2.7	HEA
		16	8 5	27.96	19	23.53	155	16.76	1.92	1.1	2.3	10	0	73	.07	3	.6	.3	SPC
		16	1123	22.09	19	23.38	155	16.98	1.89	2.1	3.0	13	0	63	.07	3	.5	.3	SPC
		16	12 3	48.16	19	17.80	155	16.22	8.09	1.7	2.9	17	0	127	.11	5	.8	1.7	KOA
		16	1944	33.56	19	25.78	155	16.72	.43	2.3	3.4	14	0	164	.10	4	.8	.6	SPC
		17	551	48.55	19	32.32	155	14.17	24.99	3.7	3.7	32	0	66	.11	17	.7	2.1	NER
		17	721	14.03	19	19.80	155	12.30	7.59	1.7	2.6	23	0	81	.12	6	.8	1.5	UER
		17	1213	8.59	19	23.05	155	16.84	1.96	2.1	3.0	16	0	53	.14	3	.8	.5	SPC
		17	1232	43.66	19	20.45	155	13.62	9.09	1.6	2.5	17	0	65	.07	6	.4	.7	UER
		17	2315	44.58	19	24.51	155	16.10	13.70	1.6	2.4	27	0	72	.09	4	.5	.9	DEP
		18	3 4	38.48	19	19.66	155	19.23	8.78	1.6	2.5	21	0	57	.10	7	.7	1.1	SWR
		18	3 7	20.46	19	26.87	155	23.60	8.27	2.0	2.7	21	0	74	.11	11	.7	1.3	UKF
		18	433	18.19	19	20.83	155	13.50	9.65	2.3	3.1	27	0	56	.10	7	.6	.4	UER
		18	1444	26.76	19	16.61	155	21.65	7.40	1.8	2.7	17	0	133	.12	9	1.1	2.3	SWR
		18	1555	41.88	19	23.66	154	58.15	6.37	1.7	2.5	10	0	189	.11	11	1.7	1.6	LER
		18	1744	19.43	19	23.72	155	2.06	8.27		2.4	19	0	134	.12	10	.9	1.5	MER
		18	2122	58.71	19	23.28	155	17.02	1.96	1.3	2.4	12	0	59	.05	3	.3	.2	SPC
		18	2224	43.77	19	23.87	155	16.89	3.79	3.0	3.8	24	0	69	.13	3	.7	1.0	SPC
		19	318	8.70	18	59.10	155	22.58	31.13	2.9	2.9	31	0	227	.10	33	1.8	3.2	DIS
		19	352	14.10	19	23.55	154	58.13	4.97		2.4	12	0	191	.11	11	1.6	1.2	LER
		19	1447	29.41	19	24.36	155	26.58	8.68	2.1	1.8	20	0	53	.11	12	.7	1.9	UKF
		19	1613	52.84	19	18.21	155	16.84	9.52	2.4	2.7	24	0	120	.10	6	.7	1.1	KOA
		19	2254	37.19	19	20.11	155	13.47	9.86	2.1	2.5	27	0	62	.10	6	.7	.5	UER
		20	711	1.33	19	23.34	155	17.07	2.76	2.4	3.2	22	0	59	.12	3	.5	1.3	SPC
		20	23 8	27.02	19	24.10	155	15.72	1.50	2.0	2.6	22	0	45	.13	3	.5	.3	SPC
		21	257	53.32	19	19.98	155	7.76	9.35	2.8	3.2	25	0	93	.10	8	.7	.5	UER
		21	541	3.94	19	21.10	155	6.62	6.57	1.9	1.8	23	0	90	.13	7	.9	1.6	UER
		21	2035	13.51	19	22.23	155	6.72	8.13	2.5	3.3	27	0	71	.11	8	.5	1.0	UER
		21	2046	44.06	19	23.03	155	4.79	7.84	2.6	3.3	27	0	89	.12	9	.7	.9	MER
		21	2250	42.86	19	19.74	155	8.66	7.45	1.7	2.7	23	0	76	.08	9	.5	1.0	UER
		22	130	3.87	19	23.38	155	16.90	1.78	2.3	3.1	10	0	66	.06	3	.5	.2	SPC
		22	3 2	47.72	19	24.07	155	15.98	1.44	1.6	2.8	13	0	111	.08	3	.4	.3	SPC
		22	513	50.38	19	20.56	155	7.44	9.05	2.0	3.0	28	0	90	.15	8	.9	.8	UER
		22	620	54.94	19	23.35	155	17.25	1.57	1.6	2.9	12	0	56	.06	3	.4	.2	SPC
		22	10 5	32.00	19	25.56	155	23.50	11.51	2.4	2.9	25	0	73	.09	9	.6	.3	UKF
		22	1319	20.78	19	23.67	155	16.97	2.00	1.8	2.8	13	0	70	.06	3	.4	1.1	SPC
		22	1540	49.89	19	23.44	155	16.86	2.15	2.3	3.4	18	0	66	.10	3	.5	1.2	SPC
		22	1831	19.81	19	19.86	155	7.12	8.11	2.0	2.6	23	0	108	.10	7	.7	.8	UER
		23	033	7.40	19	21.10	155	6.29	8.00	2.1	2.9	23	0	92	.11	7	.7	.9	UER
		23	327	55.02	19	30.76	155	48.00	10.03	2.4	3.1	17	0	90	.16	20	1.2	.6	KON
		23	332	47.70	19	22.76	155	4.86	7.98	2.2	3.1	25	0	87	.13	9	.7	1.1	MER
		23	12 3	.15	19	22.19	155	18.11	.90	1.3	2.6	13	0	71	.06	4	.3	.3	KOA
		23	14 3	6.66	19	22.15	155	18.16	1.22	1.6	2.7	10	0	70	.03	4	.1	.1	KOA
		23	14 6	20.49	19	22.18	155	.10	5.53	2.2	3.0	16	0	186	.14	11	1.6	2.2	LER
		23	1412	14.97	20	10.09	155	50.10	16.54	3.0	3.2	15	5	311	.13	72	1.9	46.6	KOH

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	REMK
1976	NOV	23	1541	47.61	19	25.99	154	53.66	8.14	2.4	3.3	18	0	230	.11	19	2.4	1.0	LER
		23	1713	2.44	19	21.17	155	6.05	8.49	2.5	3.2	23	0	92	.09	7	.6	1.1	UER
		23	2224	54.58	19	23.09	155	17.05	1.69	1.6	3.0	14	0	43	.06	3	.3	.2	SPC
		24	0	3 2.50	19	20.16	155	7.21	8.49	2.1	3.0	24	0	100	.09	8	.6	.9	UER
		24	852	54.62	19	20.03	155	11.43	8.74	1.7	2.7	24	0	84	.11	7	.7	.9	UER
		24	1157	37.56	19	20.94	155	6.25	8.39	2.2	3.2	23	0	96	.11	7	.8	.8	UER
		25	637	27.42	19	23.47	155	17.06	2.70	2.2	3.3	18	0	63	.12	3	.6	1.5	SPC
		25	736	1.38	18	56.53	155	31.28	27.37	2.0	2.4	23	4	256	.13	35	2.2	1.4	DIS
		25	843	33.53	19	21.79	155	15.34	9.33	1.5	2.4	16	0	60	.06	4	.5	1.0	KOA
		25	11	5 40.25	19	23.74	155	16.95	1.68	2.5	3.2	14	0	72	.05	3	.3	.2	SPC
		25	1430	34.57	19	28.87	154	49.83	9.94	1.8	2.4	14	1	318	.17	24	4.3	.7	LER
		25	18	5 14.53	19	26.99	154	54.07	8.67	2.3	2.9	14	0	212	.10	18	1.8	.7	LER
		25	1935	7.12	19	19.98	155	10.77	9.07	2.2	3.0	22	0	86	.12	7	.9	.9	UER
		25	2135	11.02	19	21.18	155	6.21	9.54	2.7	3.0	25	0	91	.11	7	.8	.5	UER
		26	2	7 22.64	19	22.78	155	2.75	7.24	2.4	3.2	23	0	128	.09	12	.6	1.2	MER
		26	349	14.70	19	24.25	155	16.07	1.61	2.1	3.2	18	0	114	.07	3	.3	.2	SPC
		26	635	59.15	19	20.96	155	13.06	8.93	1.7	2.5	19	0	59	.09	6	.7	1.2	UER
		26	1012	29.35	19	24.87	155	.80	7.29		2.6	20	0	142	.12	10	.9	1.0	LER
		26	1015	58.54	19	24.23	155	15.87	4.49	3.1	3.8	27	0	46	.13	3	.6	.8	SPC
		26	1317	4.61	19	19.19	155	13.78	8.32	2.0	2.5	20	0	64	.09	7	.6	1.2	UER
		26	1329	45.02	19	24.30	155	16.19	1.73	1.4	2.6	12	0	115	.05	3	.4	.2	SPC
		26	2216	46.21	19	19.47	155	15.73	9.83	1.9	2.9	24	0	90	.11	6	.7	.5	KOA
		26	23	6 5.48	19	25.34	154	55.11	8.11		2.5	9	0	209	.13	17	2.9	1.7	LER
		27	335	34.05	19	20.41	155	11.58	8.58	1.7	2.5	22	0	76	.13	8	.9	1.7	UER
		27	5	8 16.98	20	13.71	155	20.55	23.32	2.5	3.3	15	1	301	.04	81	7.1	10.4	DIS
		27	638	5.52	19	29.79	155	58.65	10.31	2.6	3.3	23	3	238	.22	26	2.8	.7	KON
		27	927	38.80	19	22.46	155	5.10	7.99	2.2	3.0	23	0	81	.12	11	.7	1.1	MER
		27	1241	14.98	19	25.42	155	25.45	7.23	2.1	2.9	19	0	69	.11	10	.7	1.6	UKF
		27	1915	36.46	19	23.89	155	16.88	1.70	1.4	2.8	12	0	78	.06	3	.4	.2	SPC
		28	242	55.65	19	22.49	155	28.67	9.80	2.1	3.1	26	0	48	.11	12	.5	.4	UKF
		28	256	42.01	19	23.37	155	16.91	2.02	1.6	2.9	18	0	64	.10	3	.5	1.3	SPC
		28	539	52.58	19	20.31	155	12.84	8.61	1.6	2.8	24	0	68	.11	7	.7	1.1	UER
		28	1214	16.32	19	23.53	155	17.17	2.29	2.7	3.6	21	0	56	.12	3	.5	1.6	SPC
		28	1426	29.42	19	26.92	155	29.05	9.55	2.3	2.8	24	0	58	.11	11	.7	.5	UKF
		28	2021	5.24	19	17.59	155	21.53	7.52	2.0	3.4	24	0	122	.13	9	.8	1.3	SWR
		29	5	1 27.55	19	21.16	155	6.42	8.99	2.2	3.4	25	0	90	.10	8	.6	.8	UER
		29	7	6 30.61	19	18.85	155	13.58	7.42		2.6	19	0	71	.14	7	1.0	2.0	POL
		29	9	3 47.43	19	27.09	154	51.98	7.75		2.6	17	1	267	.15	21	1.7	1.3	LER
		29	1036	25.35	19	21.22	155	13.41	9.68	1.6	2.8	16	0	57	.08	7	.7	1.9	UER
		29	1041	.19	19	28.96	154	50.85	8.21		2.5	13	0	316	.10	23	3.4	1.0	LER
		29	1858	15.46	19	26.56	155	29.26	10.18	1.9	2.6	22	0	68	.13	12	.7	.9	UKF
		29	2210	28.00	20	57.05	156	23.23	42.02	3.3	3.7	3	2	360	.00	25	89.7	41.8	DIS
		30	120	37.03	19	19.28	155	13.87	9.04	1.7	2.6	20	0	63	.10	6	.6	1.2	UER
		30	1746	10.06	19	19.46	155	11.39	9.31	3.3	3.8	28	0	96	.10	7	.6	.6	UER
		30	1818	45.29	19	19.34	155	11.28	9.65	3.0	3.5	29	0	100	.11	7	.7	.3	UER
		30	1937	30.25	19	19.52	155	16.21	9.60	2.5	3.4	32	0	94	.11	5	.6	.7	KOA
	DEC	1	020	25.96	19	20.75	155	13.63	8.46		2.6	26	0	55	.09	7	.6	.9	UER
		1	257	42.94	19	23.11	155	17.14	1.47	1.4	2.7	14	0	48	.05	3	.3	.2	SPC

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	REMK
1976	DEC	1	444	17.47	19	21.64	155	15.23	9.40	3.1	3.8	32	0	61	.10	4	.5	.6	KOA
		1	622	59.48	19	19.72	155	8.66	8.64	1.9	2.9	22	0	76	.10	9	.6	.7	UER
		1	1057	37.57	19	20.35	155	13.42	9.40	1.7	2.7	18	0	63	.06	6	.5	1.0	UER
		1	11	0 36.04	19	20.60	155	13.22	9.40	1.6	2.6	20	0	62	.10	6	.8	1.1	UER
		1	1527	12.27	19	12.33	155	28.29	43.57	1.9	2.0	15	1	111	.13	17	2.5	2.7	LSW
		2	015	33.29	19	23.63	155	17.18	1.45	1.4	2.6	14	0	61	.07	3	.4	.2	SPC
		2	1448	40.65	19	23.23	155	17.24	1.55	1.8	2.9	17	0	55	.09	3	.5	.3	SPC
		2	1613	44.54	19	22.06	155	6.75	8.42	2.9	3.4	27	0	73	.10	8	.5	.7	UER
		2	2251	2.35	19	21.27	154	59.39	8.58		2.5	18	0	208	.16	12	2.4	1.6	LER
		3	118	17.02	19	27.29	155	26.47	8.90	2.0	2.8	26	0	62	.13	14	.7	1.2	UKF
		3	859	30.21	19	27.99	155	26.31	11.59		2.7	22	0	64	.13	14	.9	.4	UKF
		3	20	2 9.78	19	20.00	155	10.47	9.64	2.2	3.2	25	0	86	.12	7	.9	.4	UER
		3	2138	39.19	19	21.09	155	6.83	9.02	2.6	2.7	26	0	88	.09	7	.6	.4	UER
		3	2232	4.31	19	23.64	155	16.89	3.01	2.2	3.4	20	0	44	.10	3	.5	1.0	SPC
		4	050	43.65	19	22.51	155	.92	9.29	2.8	3.2	29	0	168	.11	11	1.0	.6	LER
		4	341	14.24	19	59.34	155	43.82	12.89	2.7	2.8	29	5	143	.15	37	.7	1.0	KOH
		4	350	50.82	19	20.05	155	8.13	8.82	3.0	3.8	29	0	85	.11	9	.7	.5	UER
		4	6	5 1.49	19	19.94	155	8.36	8.49	1.9	2.6	21	0	81	.11	10	.8	.6	UER
		5	250	29.66	19	23.25	155	16.94	2.21	1.9	3.0	17	0	46	.06	3	.3	.7	SPC
		5	257	18.06	19	23.49	155	17.02	1.93	2.1	3.5	17	0	46	.10	3	.5	.3	SPC
		5	727	29.27	19	21.86	155	6.55	6.77	1.9	3.1	22	0	77	.13	7	.8	1.4	UER
		5	833	34.19	19	20.81	155	11.06	9.11	2.5	2.8	23	0	73	.10	8	.6	.7	UER
		5	1711	59.17	19	22.17	155	6.41	9.02	2.5	3.4	26	0	72	.11	7	.7	.6	UER
		5	1753	31.63	19	20.33	155	13.09	7.67		2.7	18	0	65	.11	6	.8	1.7	UER
		5	2139	19.84	19	24.81	155	25.01	9.24	2.3	3.3	29	0	64	.14	10	.8	1.1	UKF
		6	047	31.78	19	22.35	155	6.45	8.02	2.5	3.4	27	0	70	.10	8	.5	.9	UER
		6	258	47.30	19	20.40	155	7.83	9.25	2.3	3.3	27	0	86	.13	9	.9	.6	UER
		6	350	10.96	19	21.41	155	13.13	9.07	1.9	2.7	22	0	67	.11	6	.8	1.2	UER
		6	610	12.33	19	19.26	155	13.46	8.30	1.9	2.8	24	0	70	.13	7	.8	1.4	UER
		6	626	58.13	19	21.53	155	7.61	9.45	3.8	4.1	29	0	74	.10	8	.6	.5	UER
		6	1449	51.30	19	23.94	155	17.04	1.77	1.9	2.6	17	0	61	.09	3	.4	.3	SPC
		6	2127	57.97	19	19.24	155	12.38	5.88	1.7	2.7	24	0	91	.13	7	.8	1.6	UER
		6	2221	50.60	19	23.60	155	17.04	1.70	1.8	2.7	15	0	66	.08	3	.4	.2	SPC
		7	3	1 33.09	19	25.05	155	24.40	8.37	1.6	2.5	21	0	79	.11	9	.8	1.1	UKF
		7	14	0 17.78	19	24.28	155	17.67	14.55	3.0	3.3	31	0	46	.09	4	.5	.9	DEP
		7	1435	.04	19	19.59	155	16.57	6.49	1.5	2.4	20	0	99	.14	5	.9	1.6	KOA
		7	2024	28.93	19	19.09	155	12.14	7.29	1.7	2.5	23	0	98	.09	7	.6	1.0	UER
		7	2340	22.17	19	23.97	155	16.86	2.99	2.7	3.6	25	0	47	.13	3	.6	1.2	SPC
		8	331	26.73	19	22.19	155	16.44	13.90	1.8	2.2	23	0	52	.11	4	.8	1.1	DEP
		8	550	32.12	19	19.87	155	12.50	6.70	1.6	2.5	24	0	78	.16	6	1.0	1.7	UER
		8	552	10.89	19	20.75	155	13.63	8.79	1.7	2.7	20	0	62	.10	7	.7	1.1	UER
		8	1149	16.95	19	18.97	155	26.64	26.08	3.4	3.4	34	0	82	.10	7	.8	1.5	HEA
		8	1415	42.67	19	20.09	155	10.57	8.99	2.9	3.7	29	0	84	.08	7	.5	.6	UER
		8	1850	26.35	19	25.54	155	16.73	.58	2.0	3.3	16	0	142	.09	4	.6	.3	SPC
		8	1947	21.24	19	18.95	155	23.54	5.81	2.5	3.4	26	0	102	.14	9	.7	1.6	SWR
		8	21	2 42.43	19	23.99	155	16.28	2.00	1.8	2.6	14	0	106	.14	3	.9	.0	SPC
		8	22	2 37.58	19	22.08	155	.54	4.35		2.4	17	0	181	.09	11	.8	.7	LER
		9	625	50.51	19	19.58	155	11.73	9.45	1.7	2.7	23	0	91	.10	6	.7	.7	UER

EAR	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	REMK
976	DEC	9	652	26.91	19	21.16	155	13.11	8.00	2.1	3.1	29	0	57	.12	6	.6	1.0	UER
		9	7 0	16.58	19	21.08	155	6.39	8.21	2.2	3.1	28	0	92	.13	7	.7	1.1	UER
		9	732	24.37	19	19.95	155	7.31	8.62	1.9	2.8	23	0	103	.13	8	.9	.8	UER
		9	1129	32.75	19	17.70	155	21.87	6.19	1.9	2.6	21	0	120	.16	9	1.0	2.7	SWR
		9	1345	55.47	19	23.41	155	16.94	3.96	2.3	3.1	19	0	65	.10	3	.5	.9	SPC
		9	15 7	28.68	19	22.16	155	6.15	8.26	2.2	3.4	24	0	107	.11	7	.7	.7	UER
		9	1528	49.90	19	23.73	155	17.19	2.76	3.0	3.8	24	0	62	.13	3	.6	1.3	SPC
		9	22 9	30.12	19	19.76	155	26.57	9.01	1.8	2.7	27	0	79	.12	6	.7	1.2	HEA
		10	848	45.65	19	23.33	155	4.18	8.37	2.9	3.3	33	0	99	.13	10	.8	.6	MER
		10	9 7	58.59	19	23.48	155	17.27	2.91		2.6	24	0	39	.13	3	.6	1.4	SPC
		10	1416	27.06	19	23.37	155	16.98	1.82	2.1	3.0	20	0	46	.12	3	.6	.3	SPC
		10	1715	33.79	19	41.54	155	2.02	7.85	2.9	3.0	22	0	203	.19	28	2.4	2.0	HIL
		10	1729	59.80	19	43.14	155	2.25	.67	2.5	2.4	12	0	255	.17	30	6.2	99.0	HIL
		10	1750	10.37	19	27.07	155	29.45	9.75	2.2	2.1	26	0	72	.11	12	.6	.4	UKF
		11	1118	4.17	19	19.92	155	12.65	10.16	2.0	2.5	25	0	75	.09	6	.6	.3	UER
		11	1255	47.62	19	22.79	155	6.46	7.20	2.2	2.5	23	0	74	.15	8	1.0	1.7	UER
		11	1751	47.04	19	20.75	155	12.04	9.40	2.3	3.5	24	0	69	.10	7	.7	.9	UER
		11	2339	36.54	19	12.14	155	28.15	9.82	2.9	3.1	27	1	105	.20	17	1.5	.6	LSW
		12	11 5	54.81	19	21.53	155	4.32	6.36	2.0	2.8	22	0	99	.10	10	.6	.9	MER
		12	1218	56.88	19	13.62	155	27.69	8.40	2.2	3.1	26	0	140	.15	16	1.0	1.4	LSW
		12	14 5	44.83	19	24.89	155	16.13	13.32	2.1	2.6	25	0	74	.08	5	.5	.8	DEP
		12	16 2	52.48	19	20.35	155	13.73	10.14	2.2	3.2	25	0	57	.10	6	.6	.3	UER
		12	1832	4.84	19	25.95	155	15.92	.17	1.8	3.1	12	0	158	.07	4	.5	.5	SPC
		12	1841	37.39	19	19.77	155	8.10	8.26	1.9	2.6	23	0	88	.10	9	.6	.8	UER
		12	2336	38.55	19	21.49	155	3.73	6.29	2.0	2.8	22	0	149	.13	11	1.0	1.3	MER
		12	2357	29.50	19	25.13	155	24.70	8.69	1.6	2.6	21	0	76	.09	9	.5	1.2	UKF
		13	348	59.94	19	24.35	155	26.59	9.02	1.8	2.6	25	0	57	.11	12	.6	1.0	UKF
		13	5 0	.72	19	23.42	155	17.00	1.92	2.0	3.0	21	0	38	.09	3	.4	.3	SPC
		13	6 8	17.28	19	19.21	155	12.05	6.81	1.7	2.9	26	0	96	.13	7	.8	1.4	UER
		13	1726	42.07	19	20.20	155	7.42	9.67	3.4	4.0	29	0	96	.12	8	.9	.4	UER
		13	2241	58.50	19	21.24	155	13.44	9.28	1.9	2.5	23	0	56	.10	6	.7	.9	UER
		14	4 6	22.77	19	22.38	154	56.08	6.57	2.5	3.1	21	0	207	.16	12	2.1	1.7	LER
		14	636	30.37	19	19.83	155	12.63	9.08	2.1	2.6	25	0	77	.12	6	.8	1.0	UER
		14	12 2	42.38	20	1.02	155	23.25	10.14	2.4	2.4	19	2	222	.10	45	1.4	.3	KKU
		14	1352	21.29	19	19.75	155	8.43	8.75	2.2	2.8	26	0	81	.10	10	.5	.6	UER
		14	1725	32.35	19	24.80	155	28.76	9.81	2.2	2.9	32	0	42	.13	13	.7	.4	UKF
		15	120	24.52	19	27.67	155	21.64	7.90	2.4	2.7	21	0	98	.10	10	.6	1.2	UKF
		15	330	9.83	19	26.11	154	53.63	8.93	1.7	2.6	16	0	226	.12	18	2.5	1.0	LER
		15	440	42.94	19	19.60	155	11.94	9.81	2.9	3.5	33	0	89	.12	6	.7	.3	UER
		15	2210	34.16	19	17.22	155	21.67	7.46	1.8	2.5	26	0	126	.16	9	1.0	1.5	SWR
		16	5 4	15.78	19	32.32	155	26.82	25.15	2.2	2.5	31	0	67	.10	17	.7	1.8	NER
		16	6 2	37.42	19	20.84	155	4.59	7.39	2.0	2.6	24	0	102	.11	9	.8	1.0	MER
		16	21 8	48.78	19	19.01	155	13.85	7.03	1.9	2.8	22	0	65	.13	7	.8	1.8	UER
		16	2121	35.55	19	25.32	155	17.05	.57	2.2	3.7	19	0	48	.14	4	.7	.2	SPC
		17	013	40.53	19	23.38	155	16.97	1.93	1.6	2.8	17	0	46	.06	3	.3	.2	SPC
		17	335	18.12	19	25.57	155	16.50	.46	1.7	3.2	15	0	126	.16	4	1.0	.6	SPC
		17	339	14.61	19	25.69	155	16.70	.80	2.9	4.1	28	0	48	.10	4	.3	.5	SPC
		17	1916	54.17	19	20.40	155	7.72	8.33	2.6	3.0	29	0	88	.10	8	.7	.5	UER

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	REMK
1976	DEC	17	2031	43.29	19	20.00	155	6.92	9.49	3.2	3.7	31	0	109	.09	7	.7	.5	UER
		18	4 1	.60	19	20.14	155	7.01	9.39	4.8	4.9	32	0	104	.09	7	.6	.5	UER
		18	553	36.78	19	21.45	155	6.33	8.47	2.1	2.8	28	0	85	.12	7	.7	.9	UER
		18	612	27.81	19	21.10	155	7.75	8.36	2.5	2.8	29	0	78	.11	9	.6	.7	UER
		18	615	24.37	19	21.89	155	6.82	6.79	2.3	3.0	25	0	75	.12	8	.7	1.1	UER
		18	814	39.99	19	20.27	155	7.49	8.91	2.4	2.8	28	0	93	.13	8	.9	.6	UER
		18	857	47.82	19	13.44	155	30.67	34.79	2.4		14	2	196	.18	26	3.7	3.2	LSW
		18	1050	39.49	19	23.96	155	15.31	2.26	2.4	3.2	23	0	45	.09	3	.4	2.1	SPC
		18	1412	15.18	19	23.64	155	2.95	7.90	2.0	2.5	27	0	120	.12	11	.8	.8	MER
		18	18 2	22.18	19	20.08	155	13.27	8.41	2.0	2.6	30	0	65	.16	6	.9	1.2	UER
		19	110	33.88	19	21.66	155	7.83	6.53	2.8	3.3	14	0	71	.10	9	.8	1.5	UER
		19	145	7.14	19	21.38	155	8.29	7.92	2.4	3.0	14	0	69	.08	10	.7	.9	UER
		19	1650	36.91	19	20.39	155	8.04	8.88	2.4	3.1	25	0	83	.08	9	.6	.4	UER
		20	117	53.65	19	20.26	155	6.60	9.54	1.9	2.7	24	0	108	.13	7	.8	1.0	UER
		20	817	43.26	19	20.53	155	11.75	8.22	1.7	2.2	24	0	74	.08	7	.5	.9	UER
		20	1246	1.42	19	21.41	155	7.95	9.34	2.0	2.7	26	0	73	.10	9	.6	.6	UER
		20	1253	7.49	19	21.39	155	7.56	7.36	2.1	2.7	24	0	77	.09	8	.5	.9	UER
		20	1330	13.98	19	21.81	155	15.14	8.13	1.7	2.7	25	0	59	.12	4	.6	.9	KOA
		20	1932	28.54	19	23.15	155	25.41	8.84	2.2	3.0	26	0	54	.13	10	.7	.9	UKF
		20	2239	50.19	19	23.17	155	14.58	3.47	1.8	2.7	16	0	60	.07	3	.4	1.1	GLN
		20	2317	55.16	19	21.41	155	2.32	6.65	2.1	2.7	23	0	152	.09	12	.8	.7	MER
		21	224	19.42	19	23.87	155	16.96	1.64	1.5	2.5	14	0	74	.06	3	.4	.1	SPC
		21	245	32.26	19	19.55	155	15.80	9.61	1.8	2.8	23	0	89	.09	6	.5	.6	KOA
		21	529	34.49	19	20.91	155	12.98	7.95	1.6	2.6	24	0	60	.13	6	.8	1.2	UER
		21	11 2	39.38	19	22.09	155	6.84	7.71	1.9	2.7	22	0	72	.13	8	.8	1.6	UER
		22	1 0	31.72	19	20.94	155	10.91	10.03	1.9	2.9	21	0	70	.08	8	.6	.4	UER
		22	5 9	34.67	19	23.46	155	16.92	1.74	2.0	3.3	22	0	41	.12	3	.5	.3	SPC
		22	9 3	32.43	19	24.27	155	15.94	2.90	2.2	3.3	22	0	83	.11	3	.5	1.4	SPC
		22	15 5	50.93	19	23.52	155	17.16	1.42	1.4	2.7	9	0	60	.06	3	.5	.2	SPC
		23	426	6.76	19	20.15	155	12.20	6.08	1.6	2.5	26	0	76	.11	6	.6	1.0	UER
		23	730	24.96	19	19.27	155	26.68	8.86	2.3	3.1	29	0	80	.17	6	.9	1.4	HEA
		23	1125	3.65	19	19.34	155	15.67	7.59		2.4	18	0	106	.07	6	.5	1.0	KOA
		23	1349	45.80	19	27.19	154	53.42	8.83	2.4	3.1	21	0	231	.14	19	2.3	.7	LER
		23	1450	2.92	19	20.69	155	3.16	6.89		2.6	20	0	115	.09	10	.8	1.0	MER
		23	19 7	47.28	19	22.03	155	6.73	6.65	1.9	2.9	25	0	73	.15	8	.9	1.6	UER
		23	2141	47.75	19	27.46	154	53.39	8.41	1.7	2.3	13	0	231	.16	19	3.4	1.3	LER
		23	2212	51.45	19	27.24	154	53.06	8.96	1.8	2.6	18	0	243	.13	20	2.7	.8	LER
		24	133	42.00	19	29.42	154	54.94	9.65	1.7	2.4	18	2	245	.17	19	2.4	.7	LER
		24	1150	31.73	19	24.38	155	16.17	1.72	1.8	2.5	15	0	132	.07	3	.4	.2	SPC
		24	22 1	20.45	19	23.36	155	16.96	1.86	1.7	2.9	18	0	62	.08	3	.4	.3	SPC
		25	640	3.89	19	20.29	155	8.43	8.00	1.8	2.5	25	0	77	.11	9	.7	.6	UER
		25	643	32.56	19	20.50	155	8.13	9.53	2.8	3.4	25	0	80	.09	9	.7	.4	UER
		25	7 1	14.76	19	40.20	156	2.73	6.04	3.3	3.4	26	2	274	.17	34	3.5	1.1	KON
		25	813	7.45	19	22.54	155	4.87	6.93	2.0	3.0	25	0	85	.13	9	.7	1.1	MER
		25	950	.59	19	24.78	154	58.43	7.89	2.2	3.3	19	0	172	.14	12	1.4	1.0	LER
		25	22 0	21.48	19	23.10	155	17.31	11.83	1.7	2.3	24	0	50	.06	3	.5	.2	LPC
		25	22 1	27.40	19	20.17	155	13.39	8.60	1.8	2.3	20	0	65	.11	6	.8	1.4	UER
		25	2252	41.83	19	23.25	155	14.66	2.68	1.7	2.5	16	0	64	.07	3	.4	1.8	GLN

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	REMK
1976	DEC	25	2341	2.27	19	23.95	155	16.92	1.66	1.3	2.4	15	0	68	.04	3	.2	.1	SPC
		26	019	57.97	19	23.40	155	14.94	1.97	1.5	2.4	13	0	76	.05	5	.3	.0	GLN
		26	113	52.67	19	19.76	155	11.41	7.97	2.3	3.0	26	0	89	.12	6	.7	1.0	UER
		26	429	27.16	19	19.52	155	8.67	8.35	1.9	2.6	19	0	79	.09	10	.6	1.3	UER
		26	522	31.71	19	23.66	155	17.02	1.90	1.9	2.9	18	0	62	.10	3	.5	.3	SPC
		26	632	44.40	19	23.16	155	14.55	5.52	1.7	2.5	14	0	59	.06	3	.5	1.2	GLN
		26	649	31.72	19	23.23	155	14.53	3.79	1.6	2.5	15	0	59	.05	3	.5	.8	GLN
		26	1043	22.34	19	23.93	155	16.87	1.66	1.7	3.0	15	0	70	.05	3	.3	.2	SPC
		26	1753	31.54	19	23.31	155	14.66	4.05	2.0	2.9	16	0	59	.06	3	.4	.8	GLN
		26	1835	51.58	19	25.92	155	28.49	9.69	1.9	2.7	19	0	61	.06	14	.4	.3	UKF
		26	1843	17.19	19	22.82	155	25.07	9.56	1.7	2.8	22	0	56	.07	10	.4	.6	UKF
		26	2343	9.16	19	47.76	155	58.54	7.82	2.9	3.5	19	0	220	.19	42	5.8	1.6	KON
		27	323	21.53	19	18.74	155	23.17	5.66	1.5	2.5	22	0	105	.13	8	.8	1.8	SWR
		27	326	19.72	19	24.50	155	26.84	10.20	2.0	2.6	24	0	51	.10	12	.5	.4	UKF
		27	415	20.58	19	23.61	155	14.75	5.22	3.3	4.0	30	0	44	.12	5	.4	.6	GLN
		27	526	2.45	19	23.31	155	14.88	3.62	1.8	2.5	15	0	67	.06	5	.4	.9	GLN
		27	6 7	22.11	19	19.25	155	12.78	7.88	1.9	2.8	25	0	84	.14	7	.9	1.5	UER
		27	624	27.46	19	19.45	155	16.55	9.63	3.1	3.5	32	0	97	.10	6	.6	.5	KOA
		27	919	27.01	19	24.00	155	14.89	2.89	2.5	3.4	21	0	82	.12	4	.6	1.5	GLN
		27	1213	54.01	19	11.42	155	36.25	10.20	3.1	3.2	26	0	118	.20	20	1.4	.6	HFA
		27	1637	24.48	19	23.22	155	17.11	1.59	1.3	2.2	11	0	59	.06	5	.4	.2	SPC
		27	1730	1.84	19	20.36	155	13.49	9.55	2.0	2.9	20	0	64	.08	6	.6	.8	UER
		28	733	51.20	19	21.28	155	29.50	9.54	2.7	3.0	26	0	72	.12	11	.8	.6	HFA
		28	8 2	13.60	19	21.91	155	14.98	9.64	2.3	2.8	28	0	58	.12	4	.7	.4	UER
		28	1517	36.61	19	23.88	155	16.86	1.94	2.8	3.5	19	0	70	.09	5	.4	.2	SPC
		28	1624	41.58	19	18.38	155	23.56	5.15	2.1	2.7	19	0	107	.06	9	.5	.8	SWR
		28	1937	4.91	19	19.21	155	12.16	9.77	3.2	3.8	29	0	95	.11	7	.7	.3	UER
		29	159	18.76	19	22.00	155	18.17	1.56	1.9	2.6	15	0	53	.09	4	.5	.0	KOA
		29	345	37.31	19	23.32	155	17.19	1.52	2.4	3.4	18	0	55	.05	5	.2	.1	SPC
		29	4 0	7.59	19	23.31	155	17.07	1.54	1.4	2.3	11	0	60	.07	5	.5	.5	SPC
		29	452	11.12	19	29.80	154	49.05	8.70	1.8	2.5	11	0	321	.10	26	5.2	1.2	LER
		29	811	17.14	19	19.33	155	12.41	8.77	2.6	3.6	27	0	88	.12	7	.7	1.0	UER
		29	10 6	7.76	19	26.16	154	52.91	8.90	2.4	2.2	13	0	246	.09	20	3.1	.8	LER
		29	1110	25.46	19	23.51	155	14.92	2.95	2.4	2.9	15	0	77	.06	5	.4	1.2	GLN
		29	1242	18.25	19	19.80	155	11.17	7.25	2.0	2.6	23	0	89	.11	7	.7	1.1	UER
		29	15 6	16.40	19	23.12	155	14.61	5.54	2.1	2.9	14	0	61	.05	5	.5	.8	GLN
		29	1644	25.63	19	19.84	155	11.26	9.15	2.4	3.5	24	0	88	.09	6	.5	.7	UER
		29	1810	.90	19	23.05	155	4.35	7.39	2.0	2.5	18	0	96	.09	10	.6	1.3	MER
		29	1926	26.92	19	23.48	155	14.49	4.59	3.0	3.8	24	0	54	.10	3	.5	.8	GLN
		29	2035	20.16	19	20.53	155	11.57	8.17	2.2	3.0	22	0	74	.15	7	1.0	1.9	UER
		30	047	41.50	18	27.18	155	20.11	11.66	3.8	4.1	9	0	316	.07	92	23.5	.0	DIS
		30	419	51.59	19	19.52	155	15.93	9.58	3.0	3.8	30	0	91	.08	6	.4	.3	KOA
		31	842	9.41	19	17.54	155	21.51	6.11	2.0	3.0	19	0	123	.13	9	.9	2.4	SWR
		31	1841	52.01	19	23.09	155	17.45	2.85	2.5	2.8	20	0	127	.16	5	1.0	1.7	SPC
		31	19 3	1.25	19	22.33	155	15.54	9.24	2.9	3.4	25	0	130	.11	4	.7	.6	KOA
		31	2251	16.02	19	21.63	155	2.73	6.81	2.4	3.2	18	0	206	.12	14	2.1	1.2	MER

TABLE 6. HVO SUMMARY LIST - MAG 3.5 AND ABOVE

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	REMK
1976	JAN	1	0 2	48.09	18	50.09	155	4.68	16.61	3.6	4.1	28	0	269	.10	54	3.9	29.5	PPL
		1	854	19.82	18	40.44	155	2.80	50.32	4.7	4.2	15	1	310	.08	78	6.0	14.1	PPL
		1	1536	47.31	19	21.71	155	15.08	9.34	3.5	3.9	30	0	60	.10	4	.4	.5	KOA
		7	016	39.36	19	18.69	155	20.66	9.64	3.7	3.7	30	0	106	.11	6	.7	.4	SWR
		7	144	33.33	19	27.20	154	53.21	7.69	3.8	3.9	28	1	238	.09	19	.9	.5	LER
		11	14 5	40.17	19	30.77	155	16.17	24.49	4.2	4.2	32	0	61	.11	13	.7	1.8	GLN
		15	1241	45.31	19	24.55	155	17.59	14.21	4.4	4.5	35	0	46	.09	4	.5	.8	DEP
		15	1259	26.09	19	24.65	155	17.60	16.07	4.5	4.7	34	0	46	.10	4	.6	1.0	DEP
		16	1929	13.84	19	22.49	155	6.53	8.43	3.7	4.0	29	0	68	.09	8	.7	.6	UER
		16	20 0	3.85	19	21.29	154	59.61	2.18	3.2	3.8	25	0	206	.12	12	1.2	1.5	LER
		18	449	28.37	19	21.73	155	15.30	9.70	3.6	3.8	31	0	60	.09	4	.5	.3	KOA
		18	14 5	10.92	19	21.77	155	7.01	9.35	3.6	4.0	30	0	76	.10	8	.6	.5	UER
		18	1413	37.89	19	21.65	155	7.62	7.03	3.6	3.7	31	0	73	.09	8	.5	.7	UER
		18	2357	46.47	19	22.56	155	5.92	7.94	3.6	3.5	32	0	71	.10	7	.5	.7	MER
		21	1141	21.24	19	22.02	155	7.21	8.48	4.1	4.2	24	0	178	.12	10	1.3	.9	UER
		23	247	40.05	19	21.63	155	4.98	8.96	3.7	4.0	31	0	82	.13	9	.8	.6	MER
		23	820	14.11	19	21.82	155	7.92	8.91	3.2	3.5	26	0	79	.10	8	.6	.7	UER
		27	535	51.38	19	21.20	155	6.17	8.69	3.6	3.8	31	0	91	.11	7	.7	.5	UER
		27	2226	28.16	19	20.28	155	6.64	9.25	4.0	4.1	31	0	107	.10	7	.7	.5	UER
		29	1019	56.47	19	22.74	154	59.64	8.66	4.7	4.9	33	0	184	.14	10	1.2	.9	LER
		31	20 7	26.96	19	22.10	155	4.83	7.52	3.3	3.9	28	0	82	.13	9	.7	.9	MER
	FEB	3	1642	13.45	19	22.68	155	5.95	8.74	3.4	3.7	30	0	72	.11	7	.6	.6	MER
		3	2050	58.46	19	21.67	155	15.18	9.78	3.5	3.8	29	0	61	.08	4	.4	.3	KOA
		5	1149	4.48	19	21.42	155	8.12	8.14	3.1	3.6	28	0	71	.12	9	.7	.9	UER
		5	1919	16.71	19	20.45	155	7.11	9.27	3.2	3.6	28	0	96	.08	7	.6	.4	UER
		7	2248	12.26	19	19.77	155	7.46	7.82	3.2	3.7	27	0	103	.09	8	.5	.8	UER
		10	1820	8.55	19	20.33	155	6.87	9.50	2.8	3.5	25	0	102	.09	7	.6	.6	UER
		12	618	26.21	19	21.67	155	3.51	7.25	3.2	3.8	28	0	109	.12	11	.8	.8	MER
		13	049	51.86	19	31.33	155	57.70	9.68	3.6	3.1	27	0	234	.15	22	2.1	.4	KON
		18	1840	52.61	19	25.82	155	16.46	.69	2.8	4.1	21	1	128	.15	2	.6	1.2	SPC
		20	1951	14.91	20	24.95	156	1.29	31.75	5.1	4.6	5	0	162	.00	83	34.8	55.7	DIS
		24	550	19.19	19	22.20	155	6.65	8.59	4.2	4.2	29	0	71	.11	8	.6	.7	UER
		24	1442	32.63	19	23.27	155	4.81	7.82	3.2	3.6	23	0	129	.11	9	.7	1.0	MER
		24	1918	30.56	19	21.12	155	7.96	9.38	3.1	3.5	31	0	76	.11	9	.7	.4	UER
		25	1348	20.37	19	22.17	155	6.35	8.98	3.9	4.2	31	0	73	.09	7	.5	.4	UER
		28	2355	25.89	19	22.42	155	6.36	8.12	3.3	3.6	25	0	69	.11	8	.6	.8	UER
		29	1941	58.83	19	20.28	155	6.61	9.13	3.1	3.5	27	0	107	.11	7	.8	.5	UER
	MAR	6	1223	4.59	19	21.60	155	1.95	6.04	3.5	4.0	29	0	160	.11	13	.7	1.1	MER
		7	1625	34.64	19	21.78	155	7.17	8.24	3.7	4.0	30	0	74	.12	8	.6	.8	UER
		9	5 5	17.66	19	18.54	155	20.65	9.37	2.8	3.5	30	0	110	.09	6	.5	.4	SWR
		10	1832	40.95	19	20.30	155	7.13	9.05	2.8	3.6	26	0	99	.13	7	.9	.7	UER
		11	4 2	42.23	19	21.60	155	15.45	8.98	3.1	3.6	25	0	67	.11	5	.7	.8	KOA
		13	616	16.38	19	8.69	155	30.14	11.26	3.5	3.5	28	3	156	.13	24	1.0	.4	LSW
		19	1324	30.32	19	21.32	155	3.43	8.11	3.9	4.1	29	0	110	.12	11	.8	1.0	MER
		20	1313	19.86	19	19.83	155	6.53	9.21	3.1	3.5	27	0	120	.09	7	.7	.5	UER
		21	931	33.54	19	22.23	155	15.26	9.78	3.3	3.6	20	0	55	.11	4	.8	1.6	KOA
		21	2031	24.60	19	20.22	155	8.61	8.42	3.2	3.6	27	0	74	.11	9	.6	.7	UER
		22	2048	26.94	19	21.85	155	5.03	8.75	3.3	3.5	29	0	77	.11	8	.7	.6	MER

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	REMK
1976	MAR	23	15 6	3.24	19	18.82	155	18.38	9.48	3.7	3.9	30	0	84	.13	8	.6	.7	KOA
		26	844	47.75	19	20.67	155	10.80	9.43	2.9	3.5	18	0	74	.08	8	.6	1.2	UER
		29	5 9	52.00	19	21.83	155	15.19	9.73	3.7	4.0	27	0	59	.12	4	.7	.5	KOA
		30	1452	10.26	19	20.01	155	7.32	9.50	3.4	3.7	29	0	101	.10	8	.8	.5	UER
	APR	2	814	6.50	19	20.62	155	6.50	9.37	4.6	4.6	33	0	101	.10	7	.6	.4	UER
		2	914	11.70	19	38.57	155	59.93	6.64	3.4	3.6	24	2	221	.21	29	1.6	1.2	KON
		2	955	3.26	19	19.86	155	12.98	8.41	3.6	3.9	28	0	72	.09	7	.5	.7	UER
		3	143	42.22	19	23.72	155	17.02	3.91	3.0	3.6	32	0	37	.16	3	.6	.9	SPC
		6	312	52.13	19	20.59	155	12.54	9.21	3.4	3.7	29	0	67	.13	7	.8	.9	UER
		11	1535	49.18	19	20.95	155	3.56	5.33	3.4	3.7	26	0	99	.14	10	1.0	.9	MER
		12	726	23.45	19	18.94	155	21.56	9.41	3.0	3.5	27	0	103	.12	8	.7	.8	SWR
		14	22 1	36.02	19	27.63	154	53.07	8.16	3.3	3.5	29	0	244	.15	19	2.3	.9	LER
		20	711	3.11	19	21.70	155	15.25	9.50	3.5	3.7	31	0	60	.11	4	.5	.5	KOA
		21	1813	34.49	18	47.70	155	.30	49.81	4.6	4.2	22	0	278	.09	63	4.8	9.0	PPL
		22	554	4.92	19	31.50	155	18.64	11.84	3.4	3.6	32	0	61	.14	15	.8	.3	NER
		22	833	.97	19	18.57	155	20.64	9.76	3.4	3.7	26	0	109	.11	6	.7	.4	SWR
		23	1229	53.77	19	21.88	155	5.15	8.95	4.2	4.3	28	0	77	.11	8	.7	.6	MER
		26	2144	41.56	19	23.26	155	16.96	5.40	3.1	3.8	26	0	44	.10	5	.4	.6	SPC
	MAY	1	1852	4.85	19	18.43	155	23.46	6.63	3.2	4.0	31	0	107	.17	9	.8	1.6	SWR
		9	614	43.37	19	21.55	155	7.95	9.72	3.4	3.6	30	0	71	.08	9	.5	.3	UER
		10	827	4.45	19	23.27	155	4.48	7.73	3.5	3.6	32	0	94	.12	10	.5	.8	MER
		12	555	11.56	19	20.33	155	11.66	9.26	3.7	4.2	31	0	77	.10	7	.6	.7	UER
		17	145	6.09	19	19.78	155	16.26	9.60	3.6	3.8	32	0	91	.09	5	.5	.4	KOA
		17	2054	49.19	19	19.66	155	8.60	9.51	3.0	3.6	28	0	78	.09	10	.6	.2	UER
		18	616	41.31	19	19.76	155	7.48	8.63	3.5	4.0	32	0	102	.12	8	.8	.6	UER
		19	1712	5.53	19	19.80	155	7.74	9.29	3.8	4.1	31	0	96	.12	8	.8	.6	UER
		21	1953	9.83	19	21.08	155	6.06	9.27	3.2	3.5	31	0	94	.11	7	.8	.5	UER
		22	1852	8.44	19	21.68	155	15.11	10.51	3.7	4.0	31	0	60	.09	4	.5	.2	KOA
		23	1731	20.18	19	20.44	155	6.81	9.38	4.0	4.0	31	0	101	.11	7	.8	.5	UER
		23	2324	7.63	20	54.93	156	23.40	49.09	4.3	4.2	34	2	206	.14	169	3.2	1.6	DIS
		28	12 8	45.51	19	23.03	155	4.84	8.11	3.3	3.7	26	0	98	.09	9	.5	.6	MER
		31	627	21.09	20	14.77	155	53.55	31.66	3.6	3.3	9	0	303	.04	70	5.8	9.7	KOH
		31	832	9.99	20	15.86	155	46.17	2.68	4.1	3.9	6	2	175	.07	75	10.1	5.6	DIS
	JUN	4	2250	51.27	19	21.54	155	7.10	9.37	4.1	4.4	32	0	78	.12	8	.7	.5	UER
		7	1039	37.57	19	19.15	155	15.64	31.40	3.5	3.3	35	0	93	.09	6	.7	1.3	DEP
		10	015	3.85	19	20.07	155	7.32	8.55	3.3	3.7	32	0	100	.11	8	.7	.6	UER
		10	22 5	5.23	19	19.78	155	8.51	9.55	3.2	3.7	33	0	79	.09	10	.6	.2	UER
		14	1417	15.19	19	24.25	155	15.84	4.37	3.2	3.9	24	0	109	.14	3	.8	1.0	SPC
		16	917	15.92	19	21.81	155	4.84	7.79	3.4	3.6	31	0	79	.09	9	.5	.6	MER
		18	12 1	11.60	19	22.53	155	6.06	7.50	3.4	3.6	28	0	69	.11	7	.6	.9	UER
		20	3 6	23.81	19	11.44	155	32.81	10.64	3.1	3.5	23	0	132	.17	22	1.3	.6	LSW
		21	1539	5.68	19	22.49	155	13.27	6.80	2.9	3.6	26	0	54	.10	6	.5	1.0	UER
		21	1816	27.24	19	22.15	155	12.92	5.39	3.1	3.5	28	0	50	.12	5	.5	.5	UER
		21	19 3	34.10	19	22.27	155	13.13	6.15	3.4	3.7	27	0	54	.09	6	.4	1.0	UER
		21	1936	29.86	19	22.10	155	12.95	6.06	3.1	3.6	20	0	61	.13	9	.8	2.6	UER
		21	20 0	34.66	19	22.34	155	13.23	5.30	3.3	3.9	26	0	63	.13	7	.6	.7	UER
		21	2015	12.03	19	22.81	155	5.04	9.38	3.2	3.5	30	0	84	.11	9	.7	.6	MER
		21	2241	19.86	19	22.36	155	12.75	4.87	2.8	3.6	28	0	77	.16	5	.7	.9	UER

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	REMK
1976	JUN	22	3 4	39.56	19	22.64	155	14.46	2.53	3.2	4.0	32	0	50	.15	4	.6	1.5	UER
		22	341	9.92	19	23.13	155	14.60	5.37	3.0	3.5	30	0	46	.11	3	.4	.4	GLN
		23	052	25.03	19	21.58	155	15.54	2.17	2.9	3.7	29	0	62	.16	4	.6	2.0	KOA
		24	1947	53.85	19	20.31	155	11.90	9.23	3.6	3.8	29	0	76	.10	7	.5	.5	UER
		25	129	52.49	19	23.27	155	16.91	3.77	2.5	3.5	25	0	45	.14	3	.7	1.0	SPC
	JUL	5	140	43.57	19	24.07	155	3.59	8.08	3.1	3.6	21	0	119	.12	11	1.0	.8	MER
		6	1345	47.97	19	21.61	155	15.27	9.41	3.2	3.5	28	0	62	.09	4	.5	.6	KOA
		11	2326	10.83	19	21.11	155	13.35	9.48	3.2	3.5	31	0	55	.09	6	.5	.4	UER
		14	2 5	2.37	19	23.21	155	14.55	4.89	3.3	3.7	25	0	55	.12	3	.6	.7	GLN
		14	1414	38.07	19	22.65	155	12.76	4.88	3.1	3.8	25	0	97	.14	8	.7	1.0	UER
		15	854	39.83	19	21.66	155	7.67	7.81	3.3	3.5	28	0	72	.14	8	.7	.8	UER
		16	111	28.75	19	10.70	155	32.65	8.83	3.2	3.8	27	0	136	.18	23	1.3	1.4	LSW
		18	2331	25.59	19	19.83	155	7.64	9.32	3.4	4.0	27	0	98	.10	8	.8	.5	UER
		22	240	53.05	19	22.63	155	4.62	9.20	3.7	4.1	34	0	90	.13	9	.8	.5	MER
		22	2149	45.42	19	23.77	155	14.85	4.82	3.2	3.6	31	0	56	.14	3	.5	.7	GLN
		23	1938	17.12	19	20.05	155	8.39	9.55	3.7	4.0	32	0	80	.10	10	.6	.3	UER
		24	122	14.65	19	13.35	155	35.54	10.32	3.4	3.5	29	0	115	.19	17	1.2	.5	HEA
		24	2346	30.98	19	23.34	155	14.74	5.03	3.3	3.9	28	0	45	.12	3	.5	.6	GLN
		27	714	26.85	19	22.27	155	4.89	9.39	4.0	4.1	32	0	83	.12	9	.9	.5	MER
		27	2037	12.69	19	23.49	155	14.57	4.70	3.6	4.0	30	0	46	.12	3	.5	.6	GLN
		28	16 3	19.82	19	23.73	155	23.92	9.67	3.5	3.3	31	0	66	.12	7	.6	.5	UKF
		30	5 9	43.69	19	20.40	155	6.66	8.04	3.8	4.1	33	0	104	.09	7	.5	.4	UER
		30	2319	14.05	19	20.27	155	12.19	8.62	3.0	3.5	31	0	75	.13	6	.6	.6	UER
		31	1651	36.05	19	24.28	155	15.86	4.61	3.3	3.8	29	0	109	.12	3	.5	.6	SPC
	AUG	1	1639	18.04	19	23.58	155	14.80	6.21	3.6	3.8	25	0	85	.12	6	.6	1.2	GLN
		2	637	1.42	19	21.52	155	15.11	9.87	3.2	3.5	29	0	62	.10	5	.6	.4	KOA
		3	523	31.91	19	26.50	154	53.67	8.88	3.0	3.5	27	0	227	.09	19	1.4	.5	LER
		6	338	55.38	19	22.71	155	5.58	8.12	3.2	3.6	30	0	76	.11	8	.6	.6	MER
		7	131	45.35	19	21.29	155	2.69	6.59	3.3	3.8	27	0	140	.11	12	.8	.8	MER
		7	1142	19.32	19	19.17	155	11.98	9.06	3.1	3.8	23	0	98	.10	7	.7	.9	UER
		9	13 9	33.49	19	23.37	155	14.62	4.99	3.4	3.7	30	0	45	.13	3	.5	.6	GLN
		10	19 3	47.59	19	19.17	155	13.31	10.12	3.5	3.8	32	0	74	.10	7	.6	.2	UER
		14	17 1	.37	19	21.44	155	8.07	8.44	3.2	3.6	29	0	71	.10	9	.5	.6	UER
		16	231	8.43	19	21.89	155	3.90	7.44	2.4	3.5	18	0	114	.08	10	.7	.6	MER
		26	319	43.60	19	21.78	155	15.06	10.15	3.6	4.0	31	0	59	.10	4	.6	.3	KOA
		28	1859	55.45	19	21.29	155	13.39	9.66	3.0	3.6	30	0	55	.09	6	.5	.3	UER
		29	2036	25.54	19	27.89	154	52.91	7.68	2.9	3.5	18	0	258	.14	19	3.2	1.0	LER
		31	1041	8.47	19	23.42	155	29.67	10.18	4.0	4.1	35	0	40	.13	13	.6	.3	UKF
		31	14 0	38.53	19	19.89	155	7.01	9.05	3.4	3.8	30	0	110	.12	7	.9	.6	UER
	SEP	2	1020	26.76	19	21.18	155	3.20	7.62	3.5	4.0	31	0	118	.11	11	.8	.5	MER
		3	116	55.89	19	19.77	155	10.60	8.90	3.1	3.5	33	0	91	.12	7	.7	.6	UER
		3	1523	20.02	19	22.93	155	24.70	9.57	2.9	3.5	19	0	82	.11	9	.8	.8	UKF
		3	22 3	41.40	19	28.89	154	50.99	7.62	3.5	3.8	27	0	269	.14	22	3.2	.9	LER
		4	1310	54.24	19	19.79	155	16.32	9.62	3.9	4.0	33	0	91	.10	5	.5	.4	KOA
		6	534	15.20	19	26.46	154	54.22	7.97	3.5	4.0	30	0	214	.13	18	1.7	.7	LER
		6	1919	.38	19	21.23	155	16.05	4.52	3.6	4.2	26	0	76	.13	7	.7	1.0	KOA
		7	22 1	16.28	19	22.20	155	4.73	8.28	3.5	4.0	32	0	85	.12	9	.7	.6	MER
		8	4 1	55.52	19	18.45	155	20.83	9.51	3.2	3.6	29	0	113	.09	7	.5	.3	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	REMK
1976	SEP	10	625	18.62	18	48.97	155	13.54	36.33	3.2	4.0	28	2	266	.14	53	2.1	8.1	PPL
		11	5 4	30.51	19	22.13	155	4.22	7.61	3.6	4.0	28	0	94	.10	10	.6	.7	MER
		15	2 1	25.72	19	21.97	155	5.05	8.83	3.6	4.0	32	0	78	.12	8	.8	.5	MER
		21	935	49.78	19	20.78	155	6.54	9.32	3.2	3.8	29	0	97	.11	7	.7	.5	UER
		24	2251	31.28	19	20.61	155	6.68	8.95	2.9	3.7	32	0	99	.11	7	.7	.5	UER
		28	914	53.40	19	20.00	155	13.13	10.04	3.7	4.2	34	0	68	.10	7	.6	.2	UER
		29	1258	3.96	19	21.97	155	5.10	8.69	3.3	3.8	29	0	77	.11	8	.8	.5	MER
	OCT	3	753	8.58	19	19.79	155	7.26	9.29	3.4	3.6	31	0	107	.11	8	.8	.5	UER
		3	1721	45.50	19	20.32	155	8.02	9.55	3.1	3.6	31	0	84	.10	9	.6	.3	UER
		5	558	50.57	19	20.11	155	6.59	9.45	3.8	4.1	30	0	112	.11	7	.8	.5	UER
		5	955	39.64	19	22.19	155	4.79	7.46	3.5	3.9	30	0	84	.10	9	.5	.7	MER
		6	822	12.93	19	18.17	155	23.49	6.08	2.6	3.6	30	0	109	.18	9	.9	2.0	SWR
		7	311	37.96	19	22.68	155	5.39	9.26	3.5	3.9	31	0	79	.10	8	.6	.4	MER
		8	2253	53.01	19	23.12	155	6.72	9.17	3.2	3.7	29	0	66	.12	9	.7	.7	GLN
		14	2317	6.95	19	22.67	155	5.12	9.09	2.7	3.5	28	0	82	.12	8	.8	.8	MER
		17	557	16.75	19	20.04	155	8.27	9.33	2.7	3.6	29	0	82	.10	9	.6	.4	UER
		17	949	11.99	19	21.60	155	6.07	8.78	2.6	3.6	26	0	83	.12	7	.7	.9	UER
		19	2311	50.41	19	20.31	155	6.99	9.03	2.7	3.6	28	0	101	.11	7	.7	.6	UER
		21	225	25.95	19	27.18	154	51.82	8.48	2.9	3.5	30	0	267	.09	22	1.7	.5	LER
		22	1243	23.91	19	20.29	155	11.42	10.38	3.4	4.1	12	0	104	.16	8	1.4	2.0	UER
		22	1411	25.90	19	21.20	155	3.33	8.19	3.5	3.9	28	0	113	.11	11	.9	.6	MER
		24	519	46.49	19	20.02	155	8.19	9.32	2.6	3.5	26	0	84	.10	9	.7	.5	UER
		26	7 7	25.35	19	21.74	155	15.18	9.98	3.3	3.6	27	0	62	.11	4	.7	.5	KOA
	NOV	2	1815	46.37	19	19.10	155	13.42	10.12	3.7	4.0	29	0	73	.08	7	.5	.2	UER
		2	1936	16.05	19	22.50	155	5.86	8.74	3.3	3.7	29	0	71	.12	7	.7	.7	MER
		6	2340	47.26	19	23.58	155	25.04	9.75	3.3	3.6	30	0	57	.12	9	.6	.5	UKF
		8	1951	5.80	19	22.36	155	6.00	7.92	2.9	3.7	29	0	70	.10	7	.5	.7	UER
		9	1533	3.39	19	20.60	155	4.14	8.06	3.8	4.1	32	0	107	.12	9	.9	.6	MER
		10	1815	16.62	19	20.71	155	11.73	9.94	3.1	3.7	29	0	71	.10	7	.7	.3	UER
		12	1654	46.51	19	21.34	155	2.46	7.12	3.5	4.1	31	0	148	.13	12	1.0	.7	MER
		12	20 7	21.45	19	56.64	155	36.00	11.20	3.5		26	0	145	.14	28	1.9	.7	KOH
		13	1114	3.35	19	21.97	155	5.07	9.18	3.7	4.1	28	0	77	.11	8	.7	.6	MER
		16	223	35.43	19	22.59	155	4.70	9.20	3.6	4.1	32	0	88	.12	9	.8	.5	MER
		17	551	48.55	19	32.32	155	14.17	24.99	3.7	3.7	32	0	66	.11	17	.7	2.1	NER
		18	2224	43.77	19	23.87	155	16.89	3.79	3.0	3.8	24	0	69	.13	3	.7	1.0	SPC
		26	1015	58.54	19	24.23	155	15.87	4.49	3.1	3.8	27	0	46	.13	3	.6	.8	SPC
		28	1214	16.32	19	23.53	155	17.17	2.29	2.7	3.6	21	0	56	.12	3	.5	1.6	SPC
		29	2210	28.00	20	57.05	156	23.23	42.02	3.3	3.7	3	2	360	.00	25	89.7	41.8	DIS
		30	1746	10.06	19	19.46	155	11.39	9.31	3.3	3.8	28	0	96	.10	7	.6	.6	UER
		30	1818	45.29	19	19.34	155	11.28	9.65	3.0	3.5	29	0	100	.11	7	.7	.3	UER
	DEC	1	444	17.47	19	21.64	155	15.23	9.40	3.1	3.8	32	0	61	.10	4	.5	.6	KOA
		4	350	50.82	19	20.05	155	8.13	8.82	3.0	3.8	29	0	85	.11	9	.7	.5	UER
		5	257	18.06	19	23.49	155	17.02	1.93	2.1	3.5	17	0	46	.10	3	.5	.3	SPC
		6	626	58.13	19	21.53	155	7.61	9.45	3.8	4.1	29	0	74	.10	8	.6	.5	UER
		7	2340	22.17	19	23.97	155	16.86	2.99	2.7	3.6	25	0	47	.13	3	.6	1.2	SPC
		8	1415	42.67	19	20.09	155	10.57	8.99	2.9	3.7	29	0	84	.08	7	.5	.6	UER
		9	1528	49.90	19	23.73	155	17.19	2.76	3.0	3.8	24	0	62	.13	3	.6	1.3	SPC
		11	1751	47.04	19	20.75	155	12.04	9.40	2.3	3.5	24	0	69	.10	7	.7	.9	UER

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	REMK
1976	DEC	13	1726	42.07	19	20.20	155	7.42	9.67	3.4	4.0	29	0	96	.12	8	.9	.4	UER
		15	440	42.94	19	19.60	155	11.94	9.81	2.9	3.5	33	0	89	.12	6	.7	.3	UER
		16	2121	35.55	19	25.32	155	17.03	.57	2.2	3.7	19	0	48	.14	4	.7	.2	SPC
		17	339	14.61	19	25.69	155	16.70	.80	2.9	4.1	28	0	48	.10	4	.5	.5	SPC
		17	2031	43.29	19	20.00	155	6.92	9.49	3.2	3.7	31	0	109	.09	7	.7	.5	UER
		18	4	1 .60	19	20.14	155	7.01	9.39	4.8	4.9	32	0	104	.09	7	.6	.5	UER
		26	2343	9.16	19	47.76	155	58.54	7.82	2.9	3.5	19	0	220	.19	42	3.8	1.6	KON
		27	415	20.58	19	23.61	155	14.75	5.22	3.3	4.0	30	0	44	.12	3	.4	.6	GLN
		27	624	27.46	19	19.45	155	16.53	9.63	3.1	3.5	32	0	97	.10	6	.6	.5	KOA
		28	1517	36.61	19	23.88	155	16.86	1.94	2.8	3.5	19	0	70	.09	3	.4	.2	SPC
		28	1937	4.91	19	19.21	155	12.16	9.77	3.2	3.8	29	0	95	.11	7	.7	.3	UER
		29	811	17.14	19	19.33	155	12.41	8.77	2.6	3.6	27	0	88	.12	7	.7	1.0	UER
		29	1644	25.63	19	19.84	155	11.26	9.15	2.9	3.5	24	0	88	.09	6	.5	.7	UER
		29	1926	26.92	19	23.48	155	14.49	4.59	3.0	3.8	24	0	54	.10	3	.5	.8	GLN
		30	047	41.50	18	27.18	155	20.11	11.66	3.8	4.1	9	0	316	.07	92	23.3	.0	DIS
		30	419	51.59	19	19.52	155	15.93	9.58	3.0	3.8	30	0	91	.08	6	.4	.3	KOA

TILT INSTRUMENTATION

In addition to the seismic network, a network of spirit-level tilt stations (dry), borehole tiltmeters, and water-tube (wet) tilt stations is maintained. The network is located on the summits and flanks of Kilauea and Mauna Loa Volcanoes. In December 1976 the tilt network consisted of:

73 spirit level tilt stations (dry)

8 borehole tiltmeters

10 water-tube tilt stations (wet)

1 continuous recording Ideal-Arrowsmith tiltmeter

Dry and wet tilt stations are generally occupied at irregular intervals. Critical stations are measured more frequently than the entire network. Digital borehole tiltmeters data are telemetered by VHF radio and recorded at the observatory. An Ideal-Arrowsmith mercury-pool capacitor-type tiltmeter with a 1 m base is located at the Uwekahuna vault, and the analog signal is recorded at the observatory.

TILTING OF THE GROUND AROUND KILAUEA CALDERA

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

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

Table 7.--Tilt Coordinates at Uwekahuna

Date (1976)	N-S	E-W
Jan 4	573	402
11	569	401
18	567	399
25	564	401
Feb 1	562	401
8	560	399
15	569	398
22	558	398
29	575	396
Mar 7	556	396
14	557	392
21	556	393
28	556	391
Apr 4	556	389
11	557	388
18	558	390
25	558	387
May 2	558	388
9	559	388
16	560	390
23	561	387
30	561	385
Jun 6	562	384
13	561	382
20	560	382
27	559	383

Table 7.--Tilt Coordinates at Uwekahuna (Continued)

Date (1976)	N-S	E-W
Jul 4	560	380
11	559	382
18	558	387
25	558	385
Aug 1	558	380
8	558	382
15	558	379
22	556	377
29	582	389
Sep 5	549	399
12	545	408
19	540	412
26	536	412
Oct 3	535	410
10	534	407
17	536	402
24	537	397
31	538	393
Nov 7	539	388
14	539	386
21	541	382
28	541	381
Dec 5	543	379
12	543	377
19	543	373
26	544	369

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

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

Table 9. Tilt coordinates and changes at bases around Kilauea caldera. (See fig.10)

Tilt base	Date (1976)	Tilt coordinates N-S	E-W	Rate (10^{-6} rad/mo) and direction of tilting since last reading		Date of last reading (1975)
Uwekahuna (U on fig.10)	11 May	597.6	346.8	8.96	N73.7°W	19 Dec
Tree Molds (TM)	11 May	494.7	513.3	1.50	N47.7°W	16 Dec
Sand Spit (SS)	14 Apr	805.8	855.2	12.69	S44.0°E	18 Dec
Keamoku (Kea)	13 Apr	576.5	496.6	7.49	S33.9°E	17 Dec
Ahua Kamokukolau (Kam)	14 Apr	703.6	554.9	12.14	N6.8°W	18 Dec
Kipuka Nene (KN)	21 Apr	156.2	576.7	4.65	N41.0°W	15 Dec
Hilina Pali (HP)	15 Apr	309.7	550.8	6.80	N30.9°W	15 Dec
Kapapala (Kap)	13 Apr	513.9	517.4	3.10	S69.0°E	17 Dec
Mehana (M)	12 Apr	548.8	560.2	3.39	S7.8°W	16 Dec

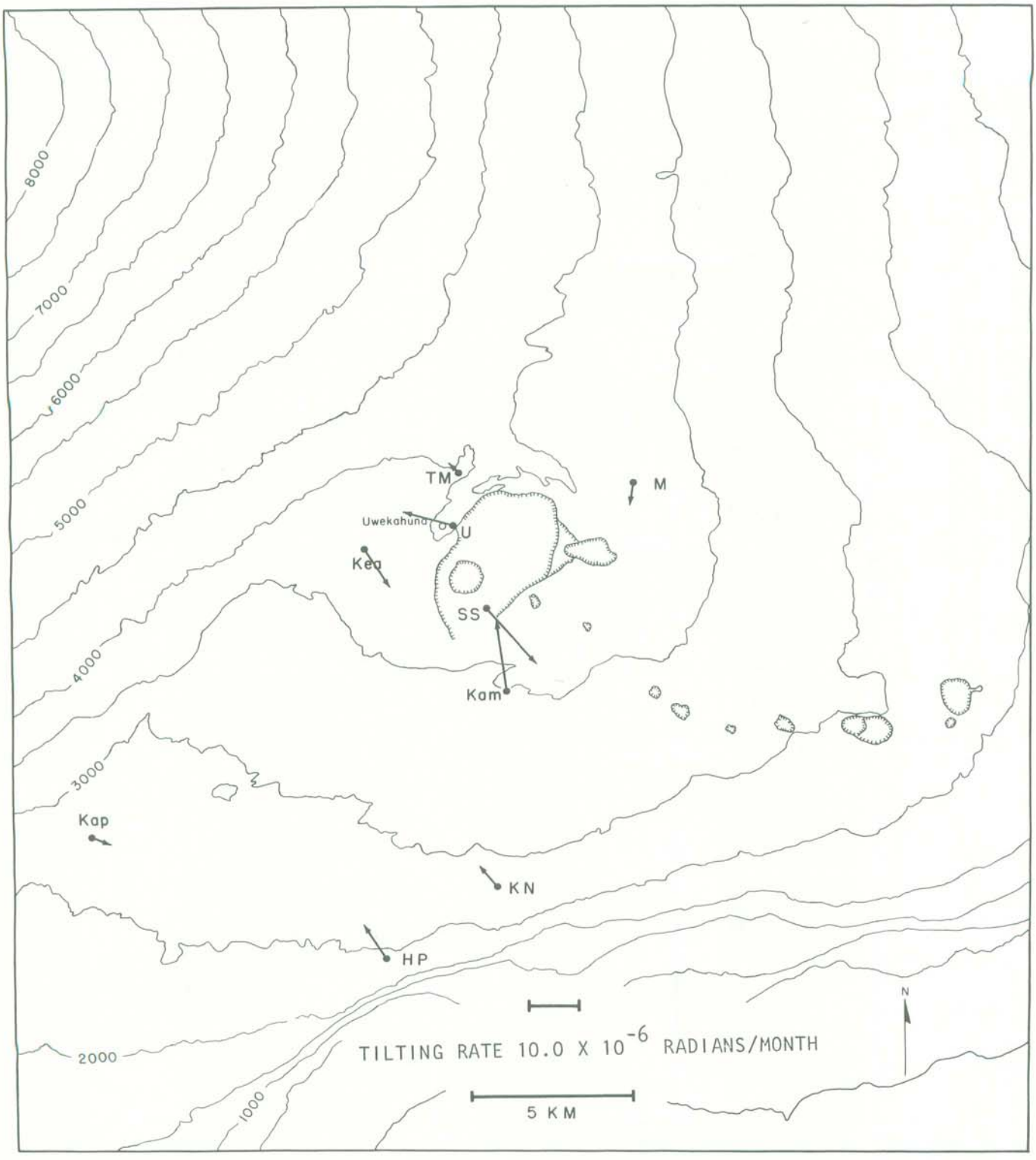

Figure 10 December 1975 to April 1976 tilting of the ground around Kilauea Caldera. The vector depicting tilt at a given tilt base points in the direction of maximum relative subsidence, and its length is proportional to the rate of tilting during the measurement interval. Closed circles represent field tilt bases; open circles, short-base watertube tiltmeters. See Table 8 for explanation of abbreviations.

Table 10. Tilt coordinates and changes at bases around Kilauea caldera. (See fig. 11)

Tilt base	Date (1976)	Tilt coordinates N-S	E-W	Rate (10^{-6} rad/mo) and direction of tilting since last reading		Date of last reading (1976)
Uwekahuna (U on fig. 11)			Not Occupied This Epoch			
Tree Molds (TM)			Not Occupied This Epoch			
Sand Spit (SS)			Not Occupied This Epoch			
Keamoku (Kea)			Not Occupied This Epoch			
Ahua Kamokukolau (Kam)			Not Occupied This Epoch			
Kipuka Nene (KN)	28 Sep	164.6	564.0	2.82	N57.8°W	21 Apr
Hilina Pali (HP)			Not Occupied This Epoch			
Kapapala (Kap)	27 Sep	514.7	522.1	0.85	N80.0°E	13 Apr
Mehana (M)	27 Sep	535.9	558.6	2.32	S7.2°W	12 Apr

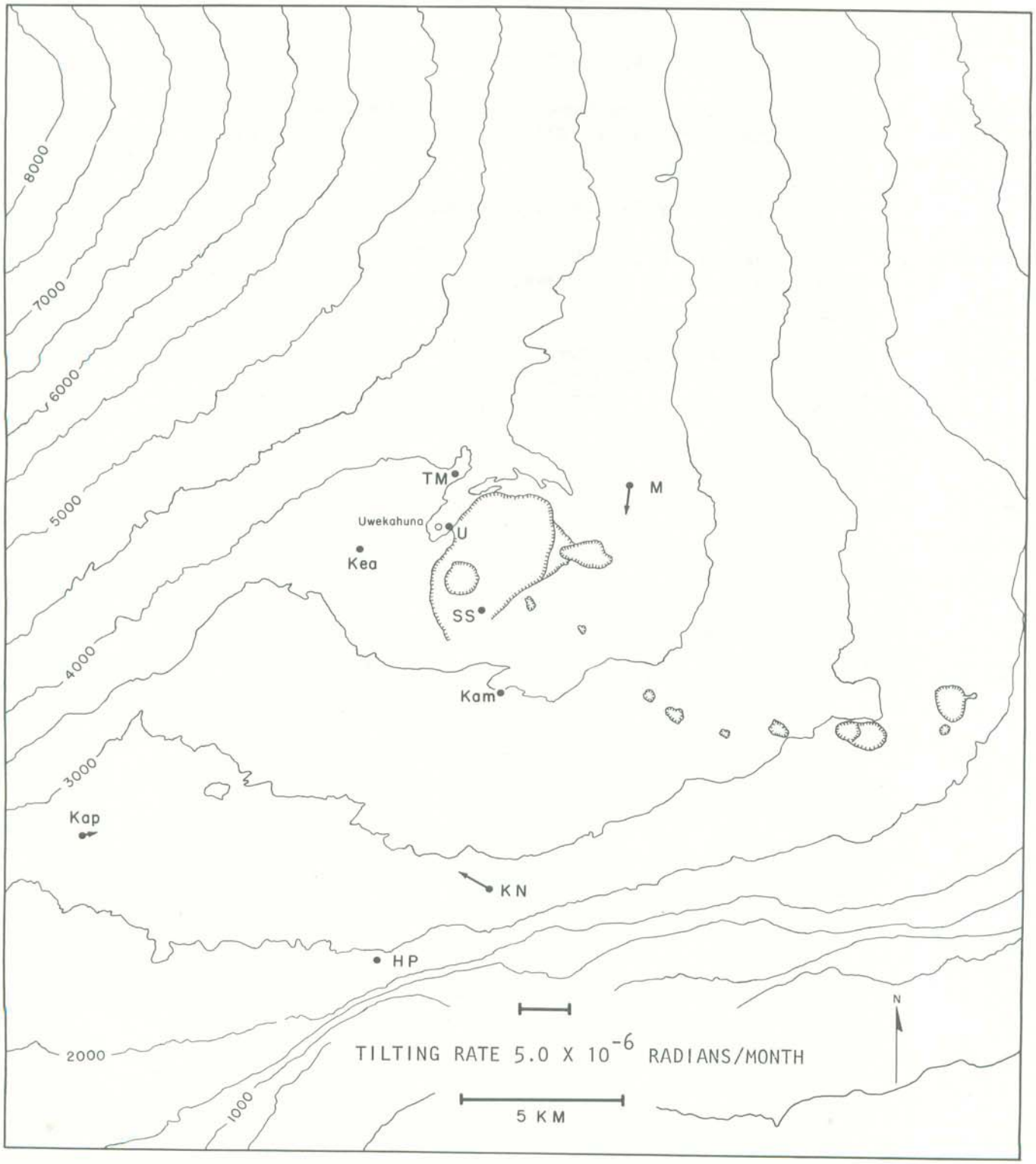

Figure 11 April to September 1976 tilting of the ground around Kilauea Caldera.

REFERENCES CITED

Crosson, R. S., 1976, Velocity structure below the Island of Hawaii from earthquake modelling, (abstract), EOS Trans. Am. Geoph. Union, 57, 961.

Koyanagi, R. Y., Stevenson, P., Endo, E. T., and Okamura, A. T., Hawaiian Volcano Observatory Summary 74, January to December 1974.

Lockwood, J. P., Koyanagi, R. Y., Tilling, R. I., Holcomb, R. T., and Peterson, D. W., 1976, Mauna Loa threatening: Geotimes, v. 21, no. 6, p. 12-15.

Tilling, R. I., Koyanagi, R. Y., Lipman, P. W., Lockwood, J. P., Moore, J. G., and Swanson, D. A., 1976, Earthquakes and related catastrophic events, Island of Hawaii, November 29, 1975 -- a preliminary report: U.S. Geol. Survey Circ. 740, 33 p.

☆ GPO 789-107/88