Hawaiian Volcano Observatory Summary 101; Part I, Seismic Data, January to December 2001

by Jennifer S. Nakata

Chronological Summary
by C. Heliker

Open-File Report 02-157

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

Hawaiian Volcano Observatory
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INTRODUCTION

The Hawaiian Volcano Observatory (HVO) summary presents seismic data gathered during the year and a chronological narrative describing the volcanic events. The seismic summary is offered without interpretation as a source of preliminary data. It is complete in the sense that all data for events of M≥1.5 routinely gathered by the Observatory are included. The emphasis in collection of tilt and deformation data has shifted from quarterly measurements at a few water-tube tilt stations ("wet" tilt) to a larger number of continuously recording borehole tiltmeters, repeated measurements at numerous spirit-level tilt stations ("dry" tilt), and surveying of level and trilateration networks. Because of the large quantity of deformation data now gathered and differing schedules of data reduction, the seismic and deformation summaries are published separately.

The HVO summaries have been published in various forms since 1956. Summaries prior to 1974 were issued quarterly, but cost, convenience of preparation and distribution, and the large quantities of data dictated an annual publication beginning with Summary 74 for the year 1974. Summary 86 (the introduction of CUSP at HVO) includes a description of the seismic instrumentation, calibration, and processing used in recent years. The present summary includes enough background information on the seismic network and processing to allow use of the data and to provide an understanding of how they were gathered.

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

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

CHRONOLOGICAL SUMMARY 2001
by
C. Heliker

The episode 55 flow field expanded eastward in 2001, repaving coastal areas that had already been buried by Kupaianaha flows and whittling away at the large kipuka that contains Royal Gardens subdivision (fig. C-1). One long-abandoned structure in lower Royal Gardens was overrun in February 2001. Lava covered 4.7 km^2 in 2001, only 1.5 km^2 of which was virgin, vegetated land. The total area covered by lava since 1983 is 105.2 square kilometers, and the volume of lava is 2.1 cubic kilometers (dense rock equivalent). For the latest statistics, refer to table C-1.

No pauses in magma supply to the Pu‘u ‘O‘o flank vent(s) occurred in 2001. This was the culmination of the trend of decreasing pause frequency over the last few years of episode 55 (table C-2). Three “magmatic events,” however, perturbed the eruption without shutting off the flank vents. These were the near-pause in April; the May surge, which caused a marked increase in eruption flux following two inflation/deflation cycles at the summit; and the August partial-crater-floor collapse, which apparently triggered summit inflation.

It was a relatively quiet year at the ocean. Lava entered the ocean for only a few days during the first five months of 2001. The E. Kupapa‘u and Kamoamoa entries were established in May and late September, respectively, and each was active until the end of the year. Both these entries formed stable benches, and no large littoral explosions were observed at either site. The shape and size of the E. Kupapa‘u bench showed little change from July through the end of the year. As with other benches that have formed near or east of Waha‘ula in the last few years, bench growth equaled wave attrition, making for a constant bench size and no spectacular collapses. The Kamoamoa bench was more changeable in size and shape but had only small collapses. About 5.1 hectares of new land were added to the island in 2001.

The Pu‘u ‘O‘o crater floor topography changed only slightly in 2001. The main features of the crater floor—the inner trough and the terrace that surrounds it (fig. C-2)—are remnants of the last period of sustained lava pond activity, which took place in September-October 1999. For the first time since then, lava resurfaced the entire trough on May 20, 2001, during a surge event. This activity lasted less than a day, however, and no more flows were observed in the crater through the end of 2001.

The main active vents on the crater floor during 2001 were the July pit and the NE- and SE pond vents. These were the source of the lava erupted in May, as well as intermittent night-time glow. Small lava ponds were visible deep within the NE- and SE pond vents on March 30. These two vents apparently merged by autumn to form the E pond vent, where a single pond was visible September 13 and again on November 16. Crater observations in the interim were dogged by heavy fume, so we don’t know if the pond was continuously present or not. On August 25, the July pit was engulfed by a small crater-floor collapse event but continued to produce intermittent glow.

Puka Nui, the composite collapse pit that is consuming the southwest flank of Pu‘u ‘O‘o (fig. C-2), continued to grow during 2001. An inner collapse pit on the east edge of Puka Nui formed at the beginning of May and doubled by the end of the month. During the same interval, the crater rim at the upper edge of Puka Nui gave way, forming a large red-rock slide and a new notch in the rim. Matching red talus on the inside of the crater below the same notch was observed on an exceptionally clear day in February 2002.

Lua Hou, a small pit on the shield just south of Puka Nui (fig. C-2), was first seen in February 2001. Flowing lava was seen at the bottom of it following the February 2000 intrusion, and the pit was floored by pond lava or, incandescence was seen, frequently through September 2000. Since then, active ponded lava was seen only once, on March 30, 2001. No activity or glow was seen at the West Gap pit in 2001.

Table C-1. Eruption Statistics

Areas

Total area covered by lava, 3/83 - 12/31/01: **105.2 km²** (40.6 mi²)

Episode	Area originally covered	Area exposed, 12/31/01
1-48b (mostly Pu'u 'O'o)	42 km²	17.7 km²
48 (Kupaianaha)	41	34.7
49 (between Pu'u 'O'o & Kupaianaha)	3.9	3.9
50 (Pu'u 'O'o flank vents)	1.0	0.2
51-52 (Pu'u 'O'o flank vents)	12.3	0.8
53 (Pu'u 'O'o flank vents)	19.4	10.7
54 (in & NE of Napau Crater)	0.24	0.24
55 (Pu'u 'O'o flank vents)	37	37
New (vegetated) territory covered in 2001:	1.5 km²	

Net total of new land created, Nov 86 - Dec 2001: 212 hectares **(524 acres)#**
Net new land created during 2001: ~5.1 hectares (**12.6 acres)**
#These figures do not include new land that was claimed by wave erosion or collapse of the active lava bench. Due to these processes, mapping in 1998 and 1999 revealed a decrease in total acreage.

Volumes

Total, 1/83 thru 12/01 Approximately: **2.1 km³** (dense rock equivalent)

Episodes 1-48b (1/83 - 7/86)	**391 x 10^6 m³**
Episode 48 (7/86 - 2/92)	**500 x 10^6 m³**
Episode 49 (11/91)	**11 x 10^6 m³**
Episode 50 (2/92 - 3/92)	**4.5 x 10^6 m³**
Episode 51-52 (3/92 - 2/93)	**34 x 10^6 m³**
Episode 53 (2/93 - 1/97)	**535 x 10^6 m³**
Episode 54 (1/97)	**0.3 x 10^6 m³**
Episode 55 (2/97 - ongoing)	**667 x 10^6 m³**

Other fascinating facts

Height of Pu'u 'O'o cone: ~**187 m** (613 ft) Cone has lost **68 m** due to collapse since 1986
Dimensions of Pu'u 'O'o crater: ~**250 m x 400 m**
Depth of Pu'u 'O'o crater floor (terrace around the inner trough), Dec 2001: ~**40 m**

Dimensions of Episode 50-55 lava shield: **1.8 x 0.8 km**
Height of Episode 50-55 lava shield: ~**80 m**

Height of Kupaianaha lava shield: **56 m**
Kupaianaha vent inactive since Feb 92

Thickness of lava at the coast:
~**15-25 m** (50-80 ft) over Kalapana Gardens
~**25 m** (80 ft) over Chain of Craters Rd at Kamoamoa
Highway covered by lava flows from this eruption: **13 km** (8 mi)

Structures destroyed

Structures destroyed in 2001: **1** (Royal Gardens)
Total structures destroyed since 1983: **188**
Total losses: **$61 million**

Table C-2. Episode 55 eruptive pauses and other magmatic events

Ep 55 pause #	Start date & time, Hst	End date & time	Length, hrs
1	5/03/97 0000	5/03/97 0530	5.5
2	5/10/97 0700	5/10/97 1230	5.5
3	5/11/97 2000	5/12/97 0600	10
4	5/12/97 2139	5/13/98 0030	3
5	5/14/97 0200	5/14/97 0700	5
6	5/23/97 0630	5/23/97 2134	15
7	5/27/97 0430	5/27/97 0654	2.5
8	6/06/97 2330	6/07/97 1005	10.5
9	6/16/97 1600	6/16/97 2027	4.5
10	6/17/97 1010	6/18/97 ~0530	19.5
11	1/15/98 1030	1/16/98 1100	24.5
12	1/26/98 1130	1/27/98 0600	18.5
13	2/21/98 0000	2/21/98 2400	24
14	3/02/98 0400	3/02/98 1600	12
15	3/09/98 1400	3/10/98 0800	18
16	4/04/98 0400	4/05/98 0041	20.5
17	5/19/98 0350	5/20/98 2230	42.5
18	6/19/98 ~1400	6/20/98 ~0100	11
19	7/16/98 2100	7/19/98 0200	53
20	8/12/98 ~1500	8/14/98 ~0930	42
21	11/07/98 ~0600	11/08/98 ~1000	28
22	2/06/99 0400-0800	2/07/99 ~0300	19-23
23	5/04/99 ~1300	5/05/99 ~2200	33
24	6/14/99 0010	6/17/99 2300	95
25	8/21/99 ~2000	8/22/99 ~2000	24
26 INTRUSION	9/12/99 0131	9/23/99 1100	273.5
27	10/03/99 ~2200	10/05/99 0900	35
28	11/07/99 1400	11/08/99 1015	20.25
29	11/11/99 ~1530	11/14/99 1030	67
INTRUSION	2/23/00 1342	NO PAUSE	
30	8/23/00 ~2300	8/26/00 ~1900	68
Dog Day SURGE	9/24/00	9/25/00	
31	12/15/00 1715	12/17/00 ~0200	~33
SLOWDOWN	4/05/01	4/08/01	
SURGE	5/20/01	5/23/01 two summit tilt cycles	
Crater/summit	8/25/01	8/25/01 small crater-floor collapse	

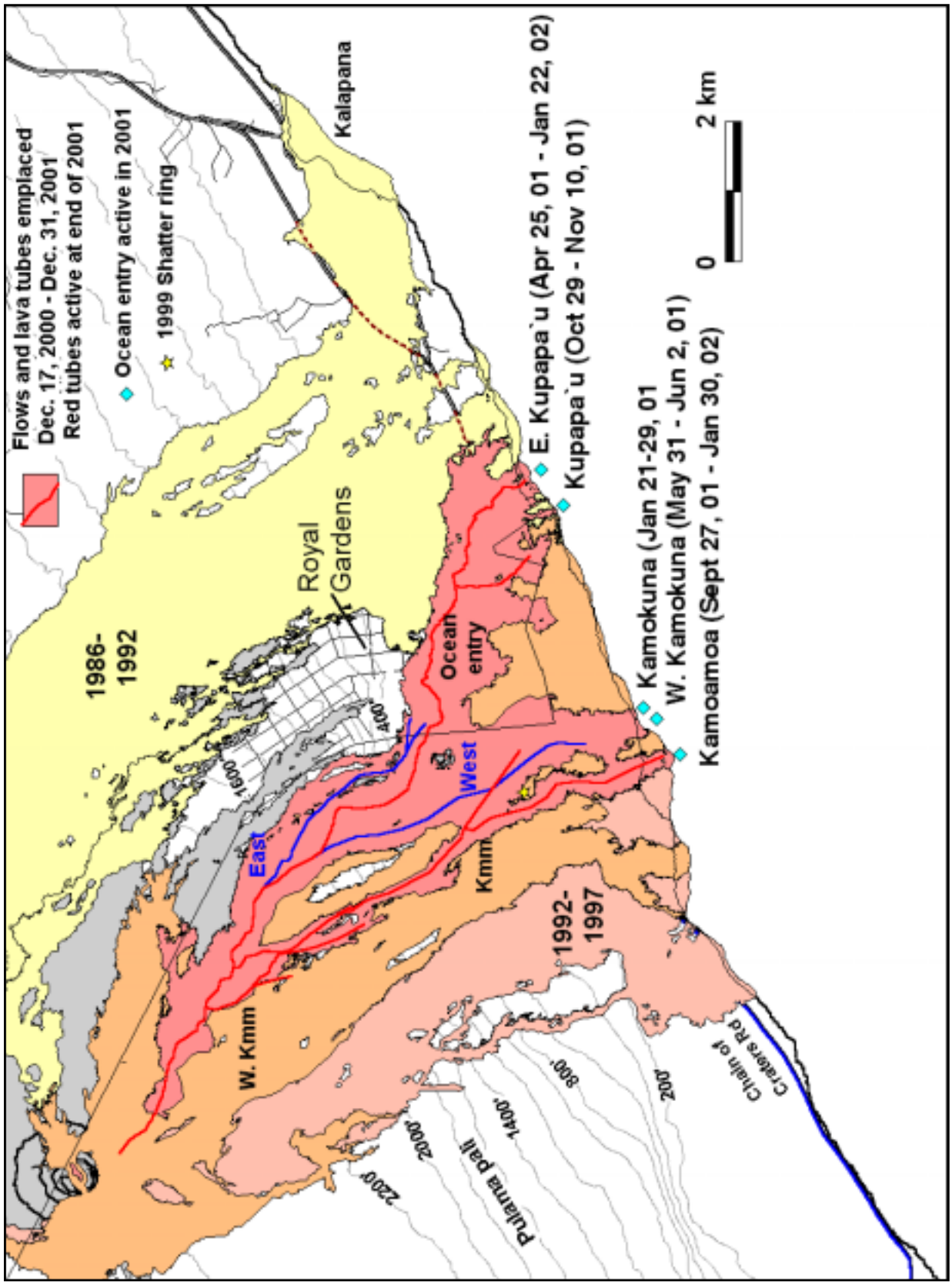


Fig. C-1 The eruption site, showing flows emplaced from December 17, 2000 through December 2001, and tubes and ocean entries active in 2001. Kmm, Kamoamoa.

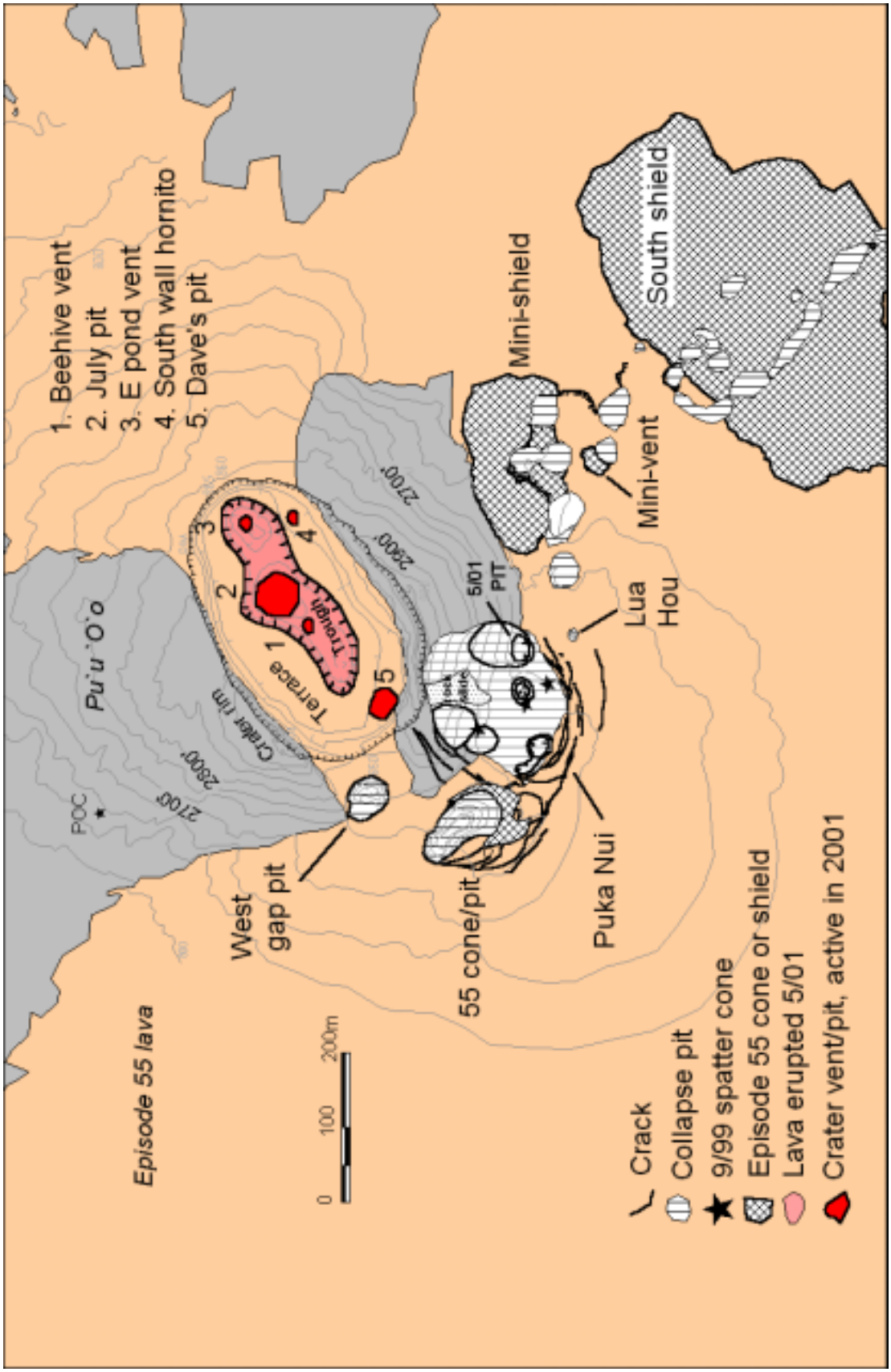


Fig. C-2 Pu‘u ‘O‘o cone and surroundings, November 2001.

SEISMIC INSTRUMENTATION

The network. The Hawaiian Volcano Observatory maintains an extensive telemetered seismic network on the Island of Hawai'i. The standard HVO field sensors, 1-Hz geophones, are deployed as single-component, vertical-only units or as three-component combinations of one vertical and two orthogonal horizontal units. The 2001 network consisted of 49 station sites: 10 three-component, 2 six-component (which included a three-component Kinemetric Force-Balance accelerometer), one four-component (which included a low-gain vertical with a unity gain setting), one four-component and two two-component (each site included a moderate-gain vertical with a 48db setting), and 33 vertical-component-only sites. The coverage is most dense on and around Kilauea Volcano. During 1999 HVO added to the network three vertical-component-only sites on the Island of Maui. All seismic signals from the network are telemetered in real time to the Observatory for recording.

The Pacific Tsunami Warning Center (NOAA) operates and maintains a network of stations on the islands of Hawai'i, Maui, and O'ahu. In 1999, radio links were established to share data, in real-time, between PTWC and HVO. PTWC signals from one O'ahu three-component station, and one Maui and four Hawai'i vertical-component-only stations, were telemetered to the Observatory for recording.

Figure 1 is a map of selected geographic and geologic features. Figure 2 shows the sites of seismic stations operated by HVO and PTWC on the Island of Hawai'i during 2001. Figure 3 indicates the telemetry scheme for the seismic stations on Hawai'i Island, and figures 4a and 4b are expanded views of the telemetry schemes at Kilauea summit: 4a, HVO seismic stations and 4b, broadband network installed by Menlo Park and maintained by HVO. Figure 5 indicates the telemetry scheme for the seismic stations on Maui Island.

Table 1 lists seismic stations by names, four-letter station codes, coordinates in degrees and minutes (old Hawaiian datum), elevation in meters, and other data, as described below, pertaining to each station. The list includes all the stations operated by HVO during 2001. Seismic stations operated by PTWC on the Islands of Hawai'i, O'ahu and Maui are also listed. Phase times from PTWC stations, not telemetered to HVO, are used to supplement local earthquakes and earthquakes that occur within the Hawaiian Archipelago but distant from the Hawai'i Island network.

Instrumentation and recording. Each telemetered station's data channel has a voltage-controlled oscillator (VCO) for FM multiplex transmission to HVO via radio. These telemetering stations are all of Type 1, Earthquake Hazards Team (EHT) standard system used in USGS seismic networks (see table 2 for details). After discrimination at the receiver, the analog signals are converted to digital form as part of the routine computer location processing and archiving. Through July 2001, continuous signals from the telemetered network were saved on 4-mm digital-audio tape (DAT) recording units. Three DAT recorders ran in automatic rotation, as each ~20-hr tape was filled. Optic recordings are coded in table 1 as follows: H - Helicorder paper, and I - ink paper. DAT and paper records are archived at HVO.

Seismograph response and calibration. Displacement response curve for the short-period seismograph type in use is given in figure 6. The Type 1 curve gives the displacement magnification of the standard EHT system from ground motion at the seismometer to the seismic trace, as seen on a 20x Develocorder film viewer. The curve plots the unit response, which is multiplied by a constant but known factor, CAL, to get the response for an individual station. Individual CAL factors for Type 1 seismographs are Develocorder equivalent peak-to-peak amplitudes, measured in millimeters, of a 100-microvolt 5 to 8-Hz signal introduced to the preamp/VCO in place of the geophone at the field station. The calibration process is normally performed each time a station is visited for other required maintenance.

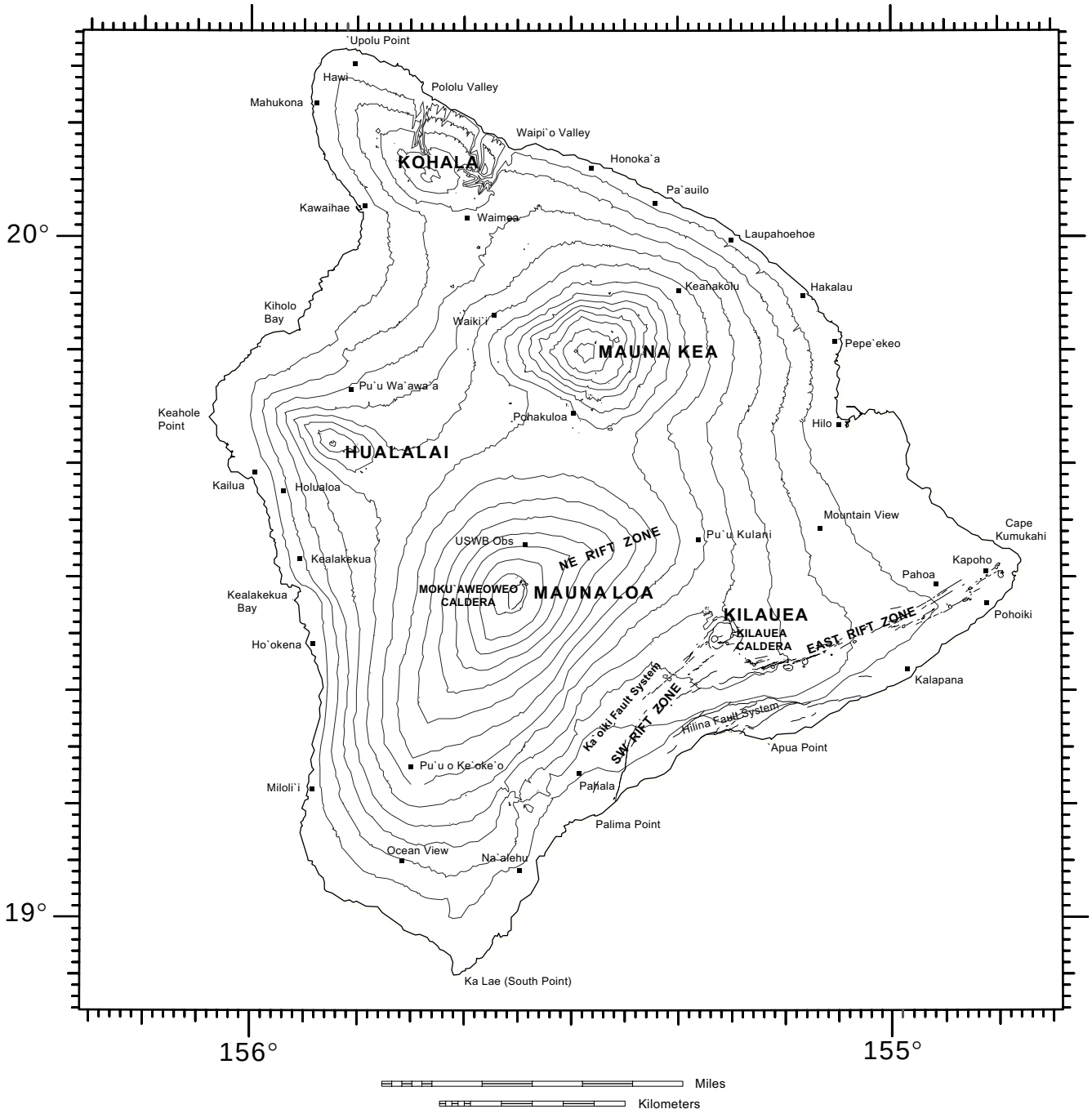


Figure 1. Map of the Island of Hawai‘i, showing principal settlements and selected geographic and geologic features.

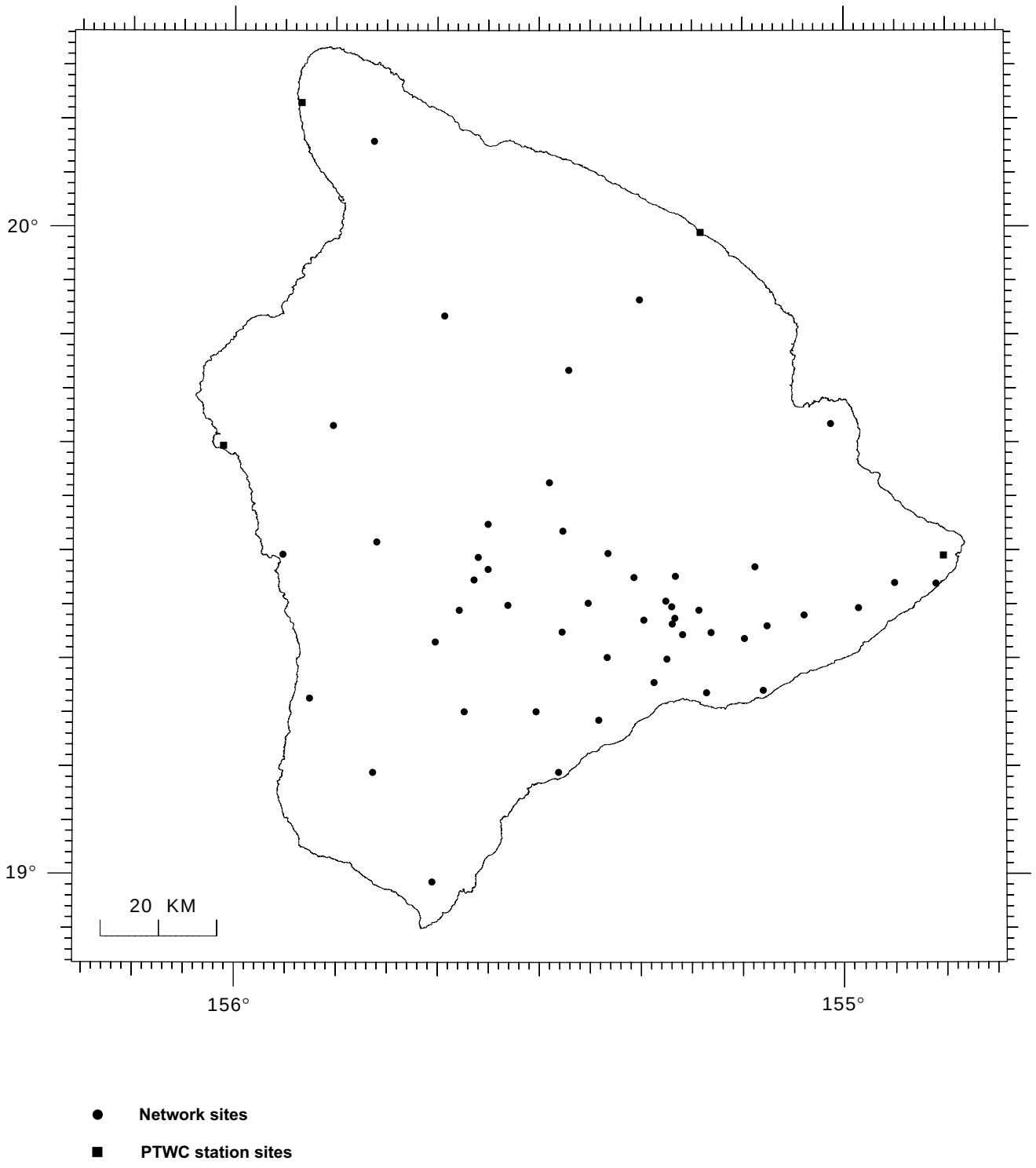


Figure 2. Seismic station sites operated by the USGS and NOAA on Hawai'i Island during 2001 on the Island of Hawai'i.

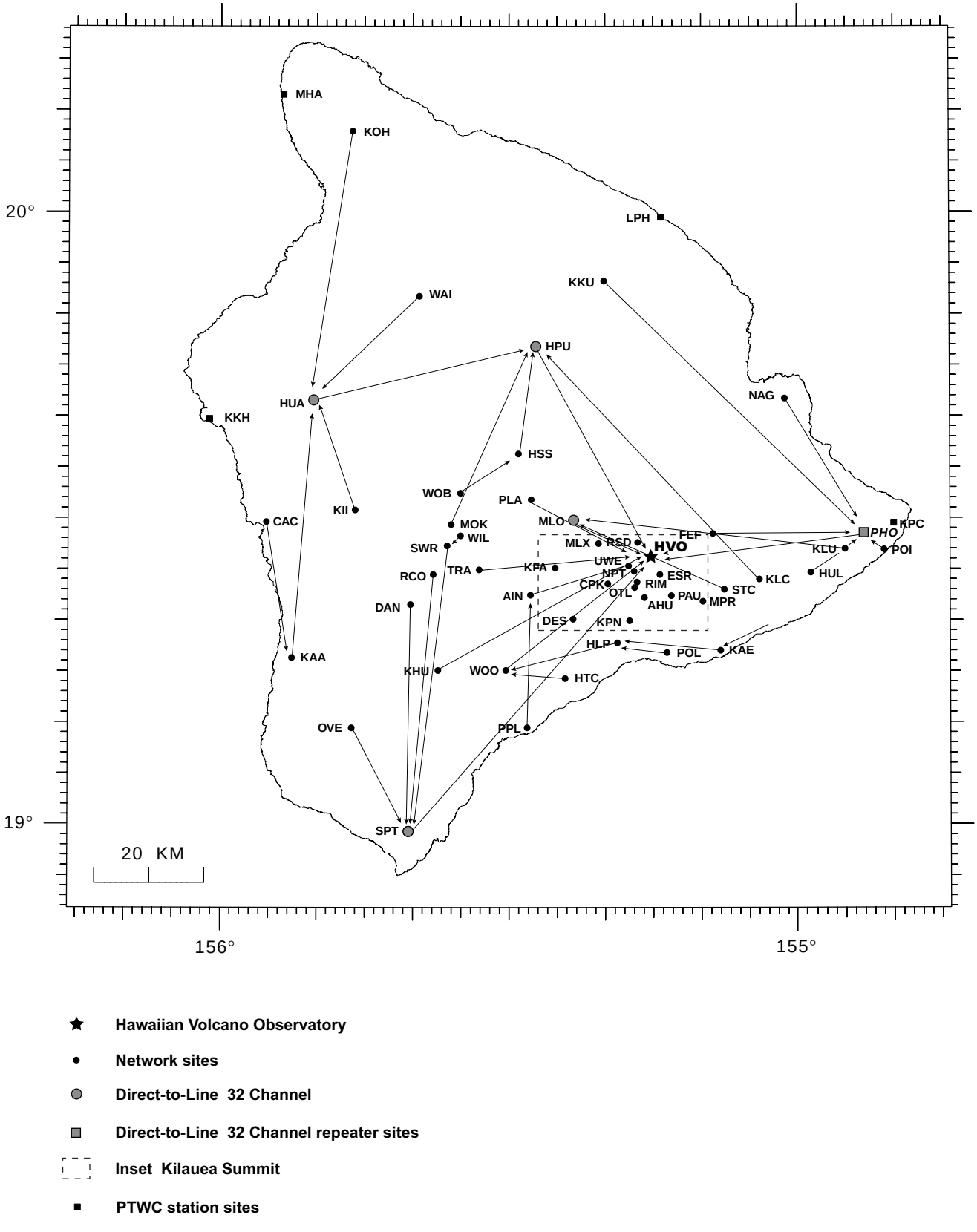
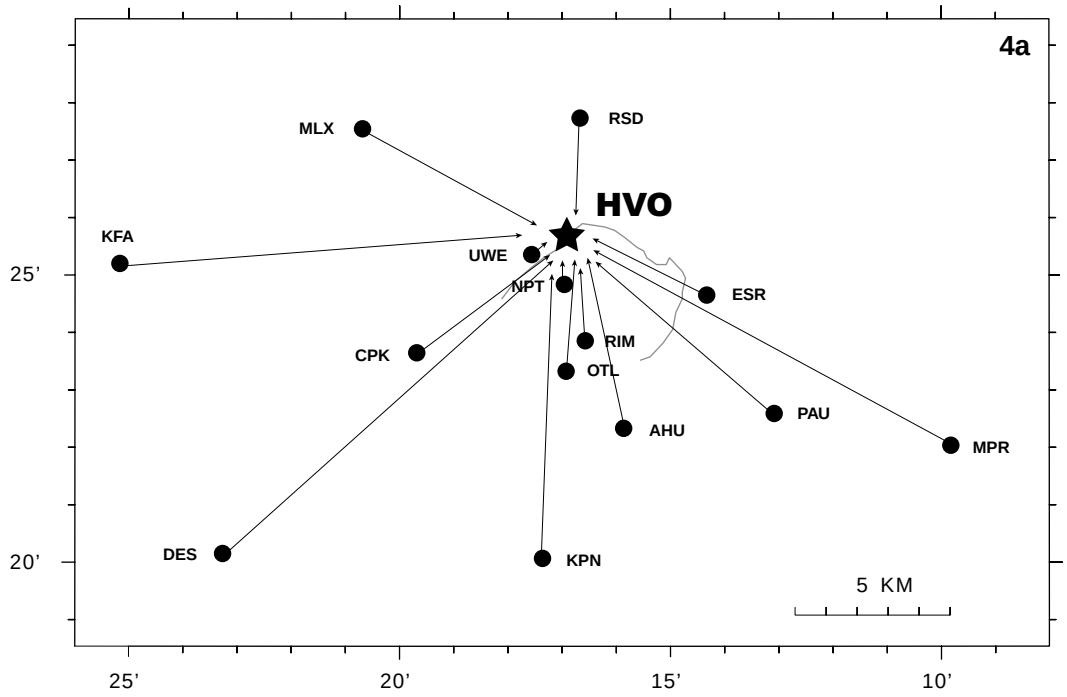
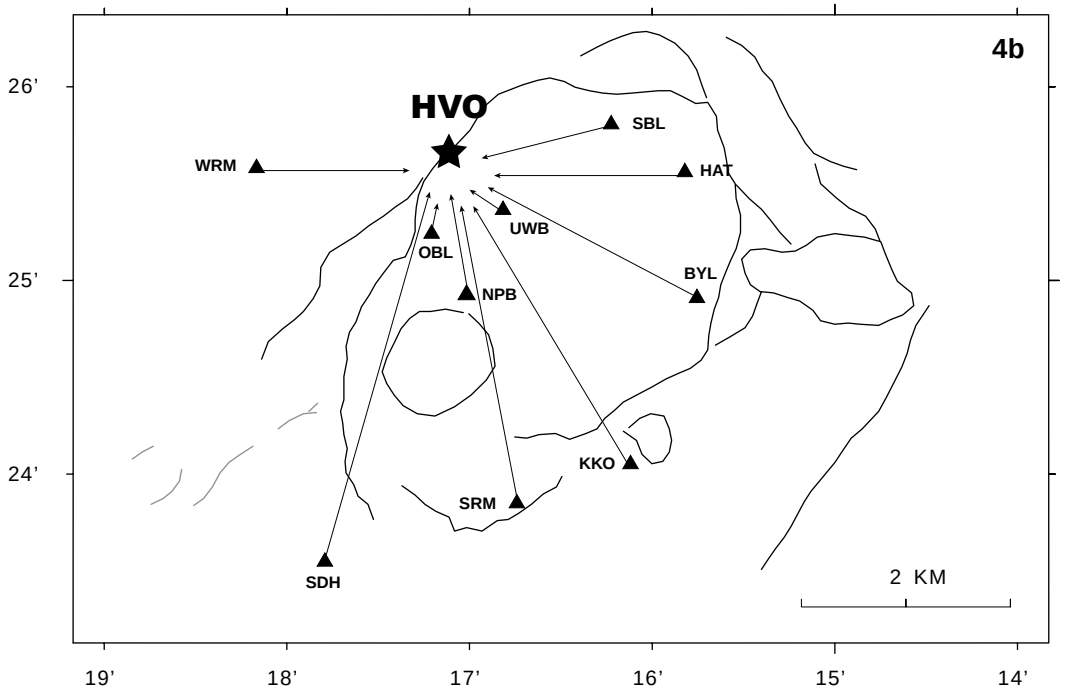


Figure 3. Telemetry scheme for seismic stations operational during 2001 on the Island of Hawai'i.





★ **Hawaiian Volcano Observatory**

● **Network sites**

▲ **Broadband sites**

Figure 4a. Expanded telemetry scheme for the 2001 Hawaiian Volcano Observatory seismic network at Kilauea summit.

Figure 4b. Expanded telemetry scheme for the 2001 Menlo Park broadband network at Kilauea summit.

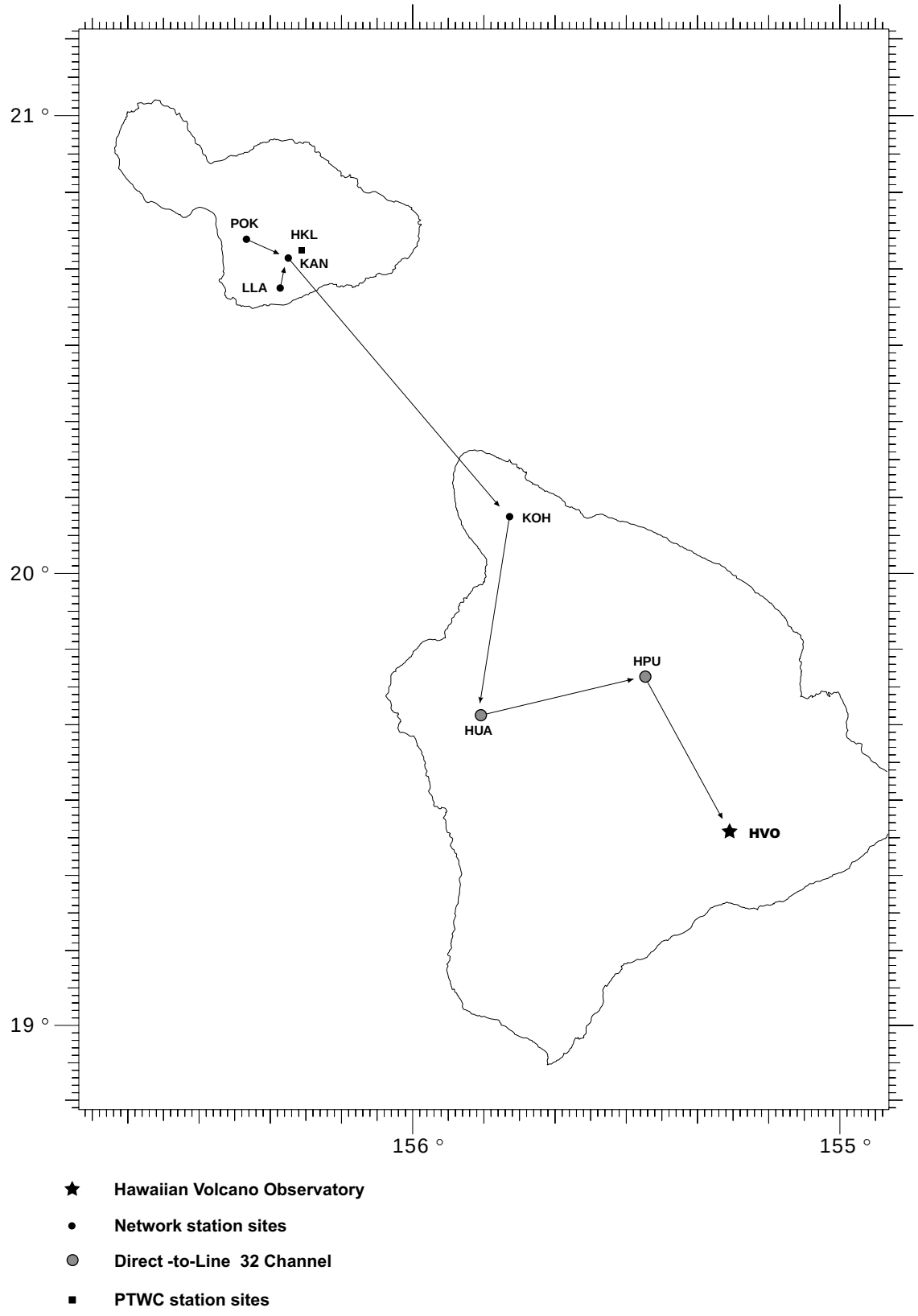


Figure 5. Telemetry scheme for seismic stations operational during 2001 on the Island of Maui.

Table 1. Seismic stations in Hawai'i operated by the USGS in 2001.

STATION NAME	CODE	-LAT-		-LON-		ELEV	DELAY	DELAY	CAL	SEIS	OPTIC
		D	M	D	M	(M)	1	2		TYPE	RECORD
AHUA	AHUV	19	22.40	155	15.90	1070	-0.10	-0.13	2.6	L5	I
AHUA	AHUE	19	22.40	155	15.90	1070	-0.10	-0.13	3.0	E5 MW	
AHUA	AHUN	19	22.40	155	15.90	1070	-0.10	-0.13	3.0	E5 MW	
AINAPO	AINV	19	22.50	155	27.62	1524	0.13	0.17	6.8	L5	
AINAPO	AINE	19	22.50	155	27.62	1524	0.13	0.17	3.0	L5 MW	
AINAPO	AINN	19	22.50	155	27.62	1524	0.13	0.17	3.0	L5 MW	
AINAPO	AINZ	19	22.50	155	27.62	1524	0.13	0.17	0.0	L5	
CAPTAIN COOK	CACV	19	29.29	155	55.09	323	0.00	-0.16	1.1	L5	
CONE PEAK	CPKV	19	23.70	155	19.70	1038	-0.26	-0.07	6.0	L5	
DANDELION	DANV	19	21.42	155	40.04	3003	-0.27	0.03	4.3	E5	
DESERT	DESV	19	20.20	155	23.30	815	-0.29	-0.13	4.5	L5	I
DIAMOND HD, OAHU	DHHZ	21	16.12	157	48.25	137	0.00	0.00	0.0	S13	
ESCAPE ROAD	ESRV	19	24.68	155	14.33	1177	-0.17	-0.19	1.2	L5	
FERN FOREST	FEFV	19	28.70	155	8.91	691	0.01	0.05	0.0	L5	
HEIHEIAHULU	HHAZ	19	25.13	154	58.72	369	-0.17	-0.16	0.0	F5	
HEIHEIAHULU	HHAE	19	25.13	154	58.72	369	-0.17	-0.16	0.0	F5	
HEIHEIAHULU	HHAN	19	25.13	154	58.72	369	-0.17	-0.16	0.0	F5	
HALEAKALA, MAUI	HKLZ	20	42.63	156	15.55	3051	0.00	0.00	0.0	S13	
HILINA PALI	HLPV	19	17.96	155	18.63	707	0.02	0.07	2.1	L5	
HONOLULU, OAHU	HONZ	21	19.30	158	0.50	2	0.00	0.00	0.0	S13	
HONOLULU, OAHU	HONE	21	19.30	158	0.50	2	0.00	0.00	0.0	S13	
HONOLULU, OAHU	HONN	21	19.30	158	0.50	2	0.00	0.00	0.0	S13	
HONUAPO	HPOZ	19	5.34	155	33.23	15	0.00	0.00	0.0	S13	
HALE POHAKU	HPUV	19	46.85	155	27.50	3396	0.31	0.17	3.3	L5	
HUMUULA SHEEP ST	HSSV	19	36.31	155	29.13	2445	0.20	0.35	4.0	L5	
HUMUULA SHEEP ST	HSSE	19	36.31	155	29.13	2445	0.20	0.35	3.0	L5 MW	
HUMUULA SHEEP ST	HSSN	19	36.31	155	29.13	2445	0.20	0.35	3.0	L5 MW	
HOT CAVES	HTCV	19	14.33	155	24.02	381	-0.16	-0.07	2.3	E4	
HUALALAI	HUAV	19	41.25	155	50.32	2189	0.67	0.38	2.8	L5	
HEIHEIAHULU	HULV	19	25.13	154	58.72	369	-0.17	-0.16	1.6	L5	H
HEIHEIAHULU	HULE	19	25.13	154	58.72	369	-0.17	-0.16	3.0	E5 MW	
HEIHEIAHULU	HULN	19	25.13	154	58.72	369	-0.17	-0.16	3.0	L5 MW	
KAAPUNA	KAAV	19	15.98	155	52.28	524	-0.12	-0.01	3.3	E5	
KAENA POINT	KAEV	19	17.35	155	7.95	37	-0.01	0.06	1.4	L5	
KANAHAU, MAUI	KANV	20	41.60	156	17.48	2745	0.00	0.00	0.0	L5	
KAOIKI FAULTS	KFAV	19	25.25	155	25.18	1579	0.13	0.17	0.0	L5	
KAHUKU	KHUV	19	14.90	155	37.10	1939	0.03	-0.03	5.0	E5	
KANEKII	KIIV	19	30.56	155	45.90	1841	0.15	0.37	3.0	L5	
KANEKII	KIIE	19	30.56	155	45.90	1841	0.15	0.37	3.0	L5 MW	
KANEKII	KIIN	19	30.56	155	45.90	1841	0.15	0.37	3.0	L5 MW	
KIPAPA, OAHU	KIPZ	21	25.40	158	0.90	2	0.00	0.00	0.0	S13	
KAILUA, KONA	KKHZ	19	39.40	156	1.12	1	0.00	0.00	0.0	S13	
KEANAKOLU	KKUV	19	53.39	155	20.58	1863	0.68	0.24	3.3	L5	
KALALUA CONE	KLCV	19	24.35	155	4.08	659	-0.25	-0.30	3.4	L5	
PUU KALIU	KLUV	19	27.48	154	55.26	271	-0.17	-0.30	3.4	L5	
KOHALA	KOHV	20	7.69	155	46.77	1166	-0.03	-0.17	6.3	L5	
KOHALA	KOHE	20	7.69	155	46.77	1166	-0.03	-0.17	3.0	L5 MW	
KOHALA	KOHN	20	7.69	155	46.77	1166	-0.03	-0.17	3.0	L5 MW	
KAPOHO CONE	KPCZ	19	30.02	154	50.51	134	0.00	0.00	0.0	S13	
KIPUKA NENE	KPNV	19	20.10	155	17.40	924	-0.11	-0.08	3.5	L5	
LUALAILUA, MAUI	LLAV	20	37.62	156	18.62	683	0.00	0.00	0.0	L5	
LAUPAHOEHOE	LPHZ	19	59.82	155	14.58	1	0.00	0.00	0.0	S13	
MAHUKONA	MHAZ	20	11.27	155	54.18	1	0.00	0.00	0.0	S13	

STATION NAME	CODE	-LAT-		-LON-		ELEV	DELAY	DELAY	CAL	SEIS	OPTIC
		D	M	D	M	(M)	1	2		TYPE	RECORD
MAUNA LOA	MLOV	19	29.80	155	23.30	2010	0.03	0.08	5.6	L5	I
MAUNA LOA	MLOE	19	29.80	155	23.30	2010	0.03	0.08	3.0	L5 MW	
MAUNA LOA	MLON	19	29.80	155	23.30	2010	0.03	0.08	3.0	L5 MW	
MAUNA LOA X	MLXV	19	27.60	155	20.70	1475	0.06	0.15	3.0	L5	
MOKUAWEOWEO	MOKV	19	29.28	155	35.98	4104	0.15	0.16	4.2	L5	IH
MAKAOPUHI	MPRV	19	22.07	155	9.85	881	-0.17	-0.20	2.6	L5	I
MAKAOPUHI	MPRZ	19	22.07	155	9.85	881	-0.17	-0.20	0.1	L5	
NATIONAL GUARD	NAGV	19	42.12	155	1.72	18	0.54	0.30	4.0	R5	
NATIONAL GUARD	NAGE	19	42.12	155	1.72	18	0.54	0.30	3.0	R5 MW	
NATIONAL GUARD	NAGN	19	42.12	155	1.72	18	0.54	0.30	3.0	R5 MW	
NORTH PIT	NPTV	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	L5	I
NORTH PIT	NPTE	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	L5 MW	
NORTH PIT	NPTN	19	24.90	155	17.00	1115	-0.30	-0.18	3.0	L5 MW	
OPANA, OAHU	OPAZ	21	41.45	158	0.70	100	0.00	0.00	0.0	S13	
OUTLET	OTLV	19	23.38	155	16.94	1038	-0.19	-0.18	2.6	L5	
OUTLET	OTLZ	19	23.38	155	16.94	1038	-0.19	-0.18	0.0	L5	
OCEANVIEW ESTATE	OVEV	19	9.21	155	45.92	1378	0.00	0.00	0.0	L5	
PAUAHI	PAAZ	19	22.62	155	13.10	994	-0.21	-0.24	0.0	F5	
PAUAHI	PAAE	19	22.62	155	13.10	994	-0.21	-0.24	0.0	F5	
PAUAHI	PAAN	19	22.62	155	13.10	994	-0.21	-0.24	0.0	F5	
PAUAHI	PAUV	19	22.62	155	13.10	994	-0.21	-0.24	2.9	L4	
PAUAHI	PAUE	19	22.62	155	13.10	994	-0.21	-0.24	3.0	L5 MW	
PAUAHI	PAUN	19	22.62	155	13.10	994	-0.21	-0.24	3.0	L5 MW	
PUU ULAULA	PLAV	19	32.00	155	27.67	2992	-0.03	0.13	6.3	L5	I
POHOIKI	POIV	19	27.42	154	51.22	16	-0.09	-0.24	0.0	L5	
PUUOKALI, MAUI	POKV	20	44.00	156	23.32	511	0.00	0.00	0.0	L5	
POLIOKEAWE PALI	POLV	19	17.02	155	13.47	169	-0.02	0.03	3.4	E5	
PUU PILI	PPLV	19	9.50	155	27.87	35	-0.15	-0.15	1.4	E5	
RED CONE	RCOV	19	24.36	155	37.79	3601	0.00	0.00	0.0	L5	
RIM	RIMV	19	23.90	155	16.60	1128	-0.21	-0.13	0.0	L5	
RAINSHED	RSDV	19	27.78	155	16.68	1270	0.06	0.15	0.0	L5	
SOUTH POINT	SPTV	18	58.91	155	39.92	244	-0.17	-0.22	2.8	L5	
SOUTH POINT	SPTE	18	58.91	155	39.92	244	-0.17	-0.22	3.0	L5 MW	
SOUTH POINT	SPTN	18	58.91	155	39.92	244	-0.17	-0.22	3.0	L5 MW	
STEAM CRACKS	STCV	19	23.30	155	7.67	765	-0.25	-0.30	3.4	L5	H
STEAM CRACKS	STCE	19	23.30	155	7.67	765	-0.25	-0.30	3.0	L5 MW	
STEAM CRACKS	STCN	19	23.30	155	7.67	765	-0.25	-0.30	3.0	L5 MW	
SOUTHWEST RIFT	SWRV	19	27.26	155	36.30	4048	0.01	0.04	5.6	E5	
TRAIL	TRAV	19	24.91	155	32.96	3207	0.00	0.00	0.0	L5	
UWEKAHUNA	URAV	19	25.40	155	17.60	1240	-0.21	0.00	0.0	R5	
UWEKAHUNA	URAE	19	25.40	155	17.60	1240	-0.21	0.00	3.0	R5 MW	
UWEKAHUNA	URAN	19	25.40	155	17.60	1240	-0.21	0.00	3.0	R5 MW	
UWEKAHUNA	UUGZ	19	25.40	155	17.60	1240	0.00	0.00	0.0	L0	
WAIKII	WAIV	19	51.58	155	39.60	1433	0.20	0.35	0.0	L5	
WILKES CAMP	WILV	19	28.15	155	35.02	4037	0.22	0.17	2.6	E5	
WILKES CAMP	WILE	19	28.15	155	35.02	4037	0.22	0.17	3.0	L5 MW	
WILKES CAMP	WILN	19	28.15	155	35.02	4037	0.22	0.17	3.0	L5 MW	
WAIMANALO RG,OAHU	WMRZ	21	19.22	157	40.94	200	0.00	0.00	0.0	S13	
WEATHER OBSERV	WOBV	19	32.31	155	35.01	3396	0.00	0.00	0.0	E5	
WOOD VALLEY	WOOV	19	15.08	155	30.12	909	-0.15	-0.06	2.6	E5	

Table 2. Seismic instrument types

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

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

a) Geophone - Electrotech EV-17 (E), Mark Products L4C (L) or Kinemetric Ranger SS1 (R). (L) and (R) are 1.0-sec. period moving-magnet vertical- or horizontal- (E-W and N-S) component seismometers adjusted for an output of 0.5 volts/cm/sec and 0.8, critically damped.

b) Preamp/VCO - USGS/OEVE Model J402 (4), J502 (5) voltage-controlled oscillator. Three db points for bandpass filter at 0.1 Hz and 30 Hz. Signals are transmitted on audio FM carrier over cable or FM radio link to HVO.

Code (W) - Wood-Anderson torsion seismograph.

Code (MW) - Horizontal-component seismograph based on a Type 1 system and modified to 3x a Wood-Anderson response.

Code (F) - Kinemetric Force-Balance Accelerometer (FBA23).

Code (S13) – Geotech, 1Hz seismometer with A1 VCO operated by the Pacific Tsunami Warning Center.

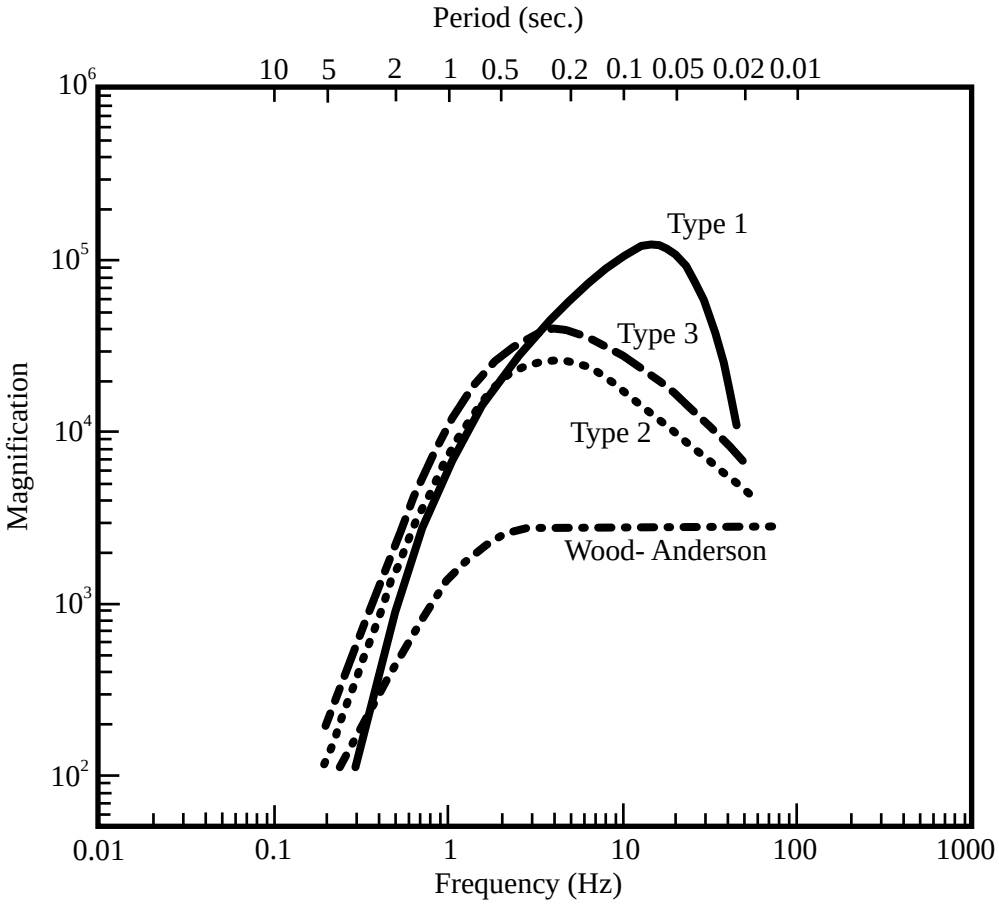


Figure 6. System-response curves for the Wood-Anderson torsion seismograph and for seismometers used by the Hawaiian Volcano Observatory. Type 1 is the standard OEVE seismometer system recorded on Develocorder film and DAT tape. The curve for Type 1 includes response of the geophone, all electronics including telemetry, Develocorder galvanometer, and projection of film by a 20x viewer. The curve plots the unit response, which should be multiplied by a constant but known factor (CAL) to get the response for an individual station.

SEISMIC DATA PROCESSING

Due to age and high cost of maintanance, Develocorder 'A' was discontinued on August 1, 1997. Daily count of classified micoearthquakes from source regions around Kilauea and Mauna Loa, and duration of tremor, were also discontinued. Coda duration, however, is measured in seconds from drum (ink or helicorder) records to determine a coda magnitude that is entered as an external magnitude in the final solution.

In 1986, HVO acquired a VAX 11-750 computer and adopted the CUSP (California Institute of Technology USGS Seismic Processing) routine. Discriminated analog signals are converted to digital form, and detected events are saved in real time. Detected events are demultiplexed, and P-picks are made by the computer, producing a rough location. Events are examined by an analyst, on a graphics terminal, to refine computer P-picks and to time additional P- and S-phases for a preliminary location. Binary CUSP files are archived on magneto-optical media and translated into ASCII phase files. Locations and amplitude magnitudes are then determined, using the program HYPOINVERSE-2000 (Klein) [2]. Events are reworked and rerun, as needed, to produce a final solution. Magneto-optical copies of arrival times and output summary data are kept at HVO.

In July 1992, HVO acquired VAX workstations for timing earthquakes using a "generic" version of CUSP. In addition to timing P and S arrival signals, the VAX workstations are capable of measuring peak-to-peak amplitudes along with the associated period. This capability allowed the renewal of amplitude magnitude determinations from the network seismic stations. Amplitude data gathered from July 1992 to July 1997 became part of a test set to determine magnitude corrections for network stations. Results of newly determined magnitude corrections are detailed by Nakata and Okubo (1997) [3].

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

VELOCITY (km/sec)	DEPTH (km)
1.9	0.0
6.5	4.6
6.9	15.0
8.3	≥16.5

Two empirical sets of station delays or corrections were used in the HYPOINVERSE locations and are given in table 1. The delay models are separated by a circle of radius 34 km, centered at 19°22' N and 155°10' W. Delay model 1 is used for epicenters occurring within a circle of radius 31 km from the center. This region includes Kilauea and its south flank. A combination of the two delay models is used for epicenters that fall in a transition zone that is 6 km wide. Delay model 2 is applied to the rest of the island and offshore earthquakes. For a detailed description, refer to Klein[2].

Magnitudes for events are computed using recorded amplitudes on selected network vertical, Modified Wood-Anderson (MW) horizontal, and/or moderate and low gain stations. Amplitude readings are corrected to an equivalent Wood-Anderson amplitude using the curves of figure 6 and CAL factors listed in table 1.

Duration magnitude is determined by the length of signal, in seconds, read from drum recordings of Type 1 seismographs. This length of time is measured from the P arrival to the point where the earthquake signal has decayed to nearly the background noise level. Drum-recorded duration magnitude is calculated with a relationship equivalent to the develocorder viewer output.

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[2] Klein, F.W., User's guide to HYPOINVERSE-2000, a Fortran Program to solve for earthquake locations and magnitudes: U.S. Geological Survey Open-File Report 02-171, 116 p.

[3] Nakata, J., and Okubo, P., 1997, Determination of station amplitude magnitude corrections for the Hawaiian Volcano Observatory telemetered seismograph network: Data from 1992-1997: U.S. Geological Survey Open-File Report 97-863, 73 p.

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

Data presented in the seismic catalog are in three parts: (1) Maps showing computer-located hypocenters are given in figures 11-24. The location maps are of different scales and provide hypocenters with magnitude thresholds set at 1.0, 2.0, 3.0, and 3.5, varying according to region. (2) The list of computer locations constitutes the bulk of this summary and is given in table 4. Each earthquake in the list is assigned a three-letter code based on its general location and depth. Figures 7-10 are maps of the regions used to assign the location codes. The latitude and longitude limits of rectangular regions are listed in table 3. When the listed coordinates overlap, precedence is given according to figures 7-10. (3) Table 5 re-lists the events in table 4 for which the preferred magnitude is 3.0 or larger. This list includes many of the earthquakes felt in Hawai'i.

Table 3. Names and coordinates of regions used for classifying earthquakes.

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

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

—Intermediate depth:
9 SF1 - Kilauea south flank (5-13 km) (west end)
10 SF2 - Kilauea south flank (5-13 km)
11 SF3 - Kilauea south flank (5-13 km)
12 SF4 - Kilauea south flank (5-13 km)
13 SF5 - Kilauea south flank (5-13 km) (east end)
14 LER - Lower east rift (5-99 km)
15 MLO - Mauna Loa (0-13 km)
16 LSW - Lower southwest rift zones of Kilauea and Mauna Loa (0-13 km)
17 GLN - Glenwood (0-13 km)
18 SWR - Southwest rift zone of Kilauea (0-13 km)
19 INT - Intermediate caldera (5-13 km)
20 KAO - Ka'oiki (0-13 km)

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

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

Table 3 (continued). The latitude and longitude limits of the regions are given below. If the coordinates overlap, precedence is given according to maps in figures 7-10.

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

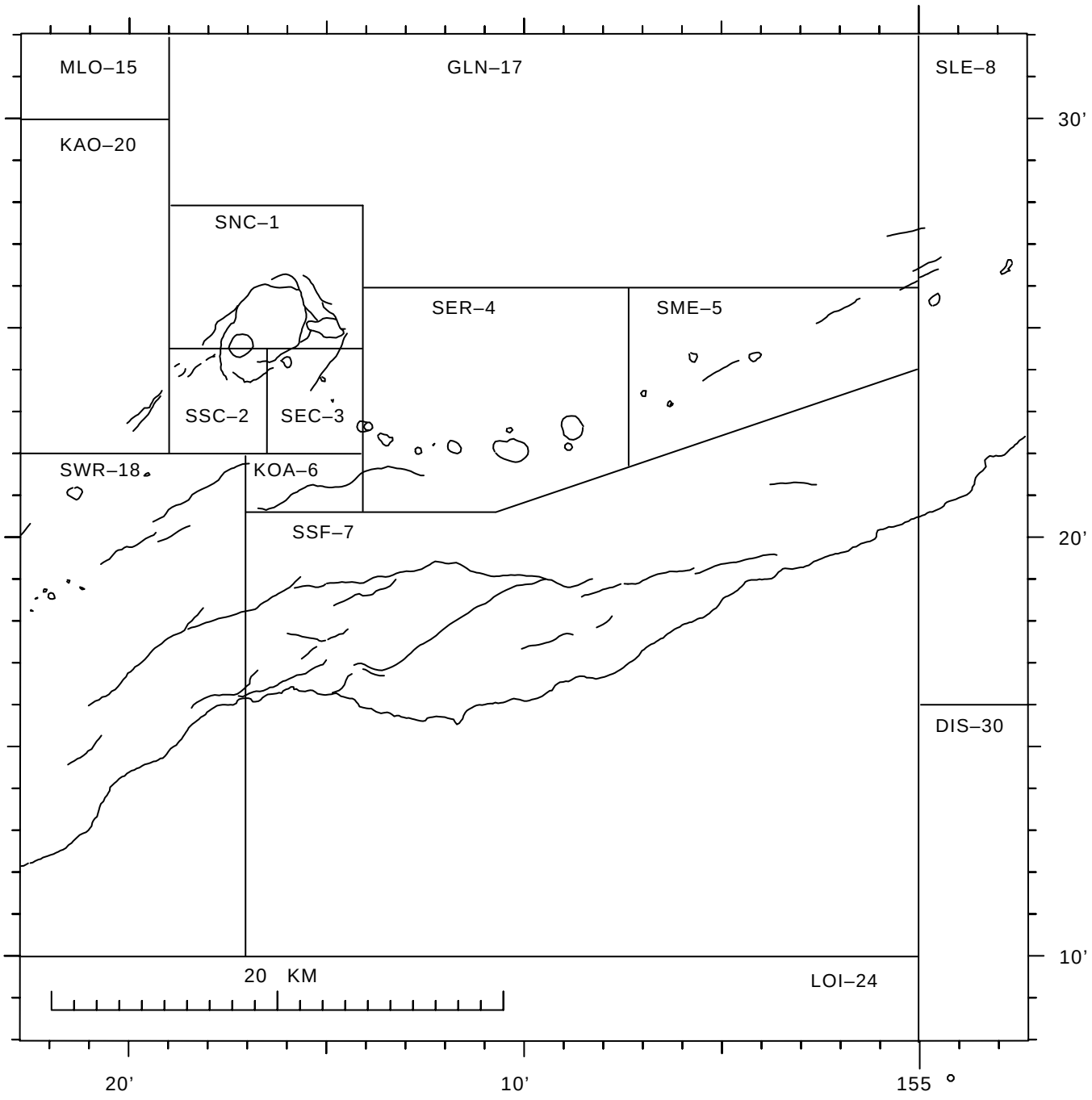

Figure 7. Earthquake classification, shallow (0-5 km deep), for Kilauea and the east flank of Mauna Loa.

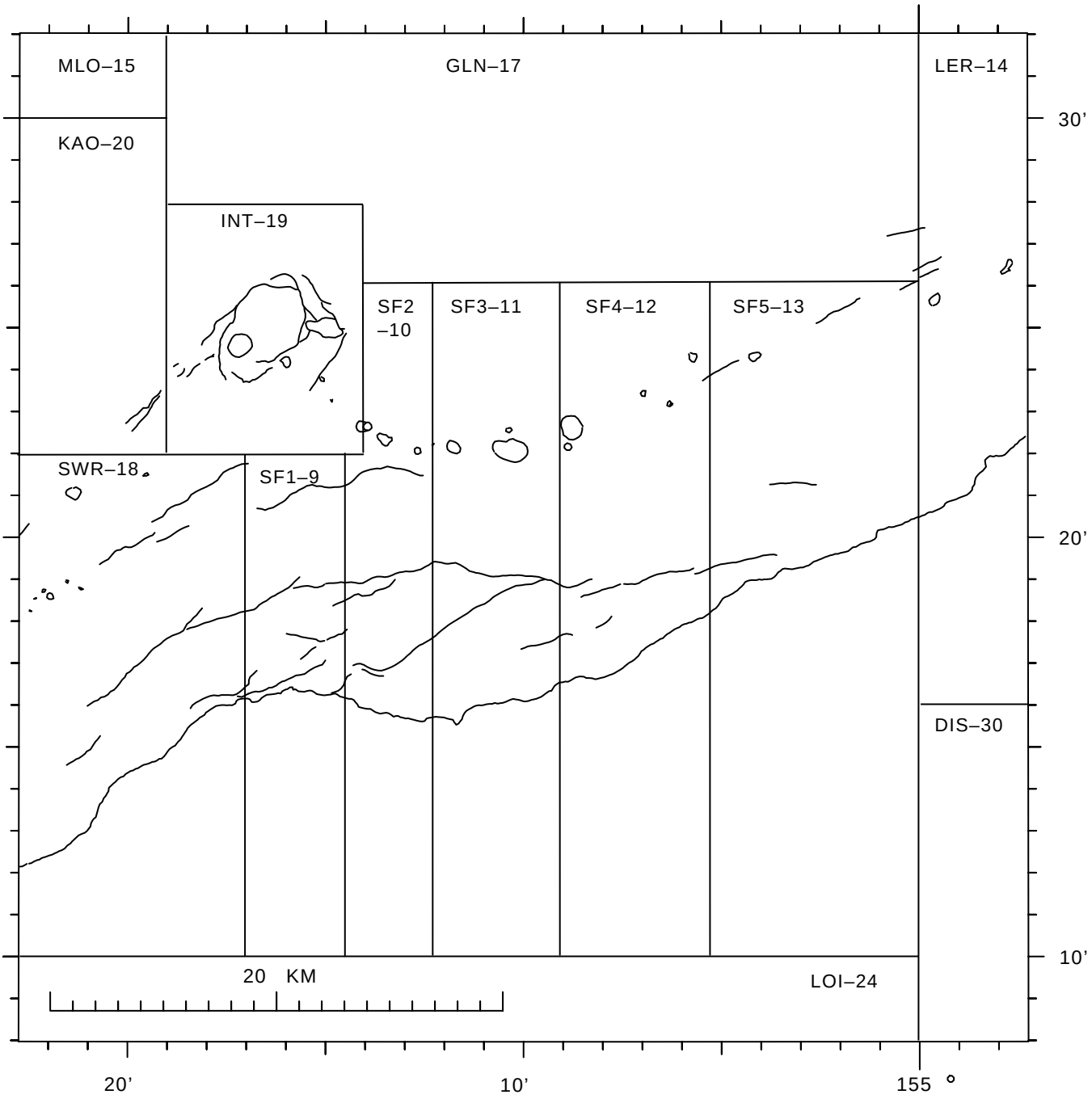

Figure 8. Earthquake classification, intermediate (5.1-13 km deep), for Kilauea and the east flank of Mauna Loa.

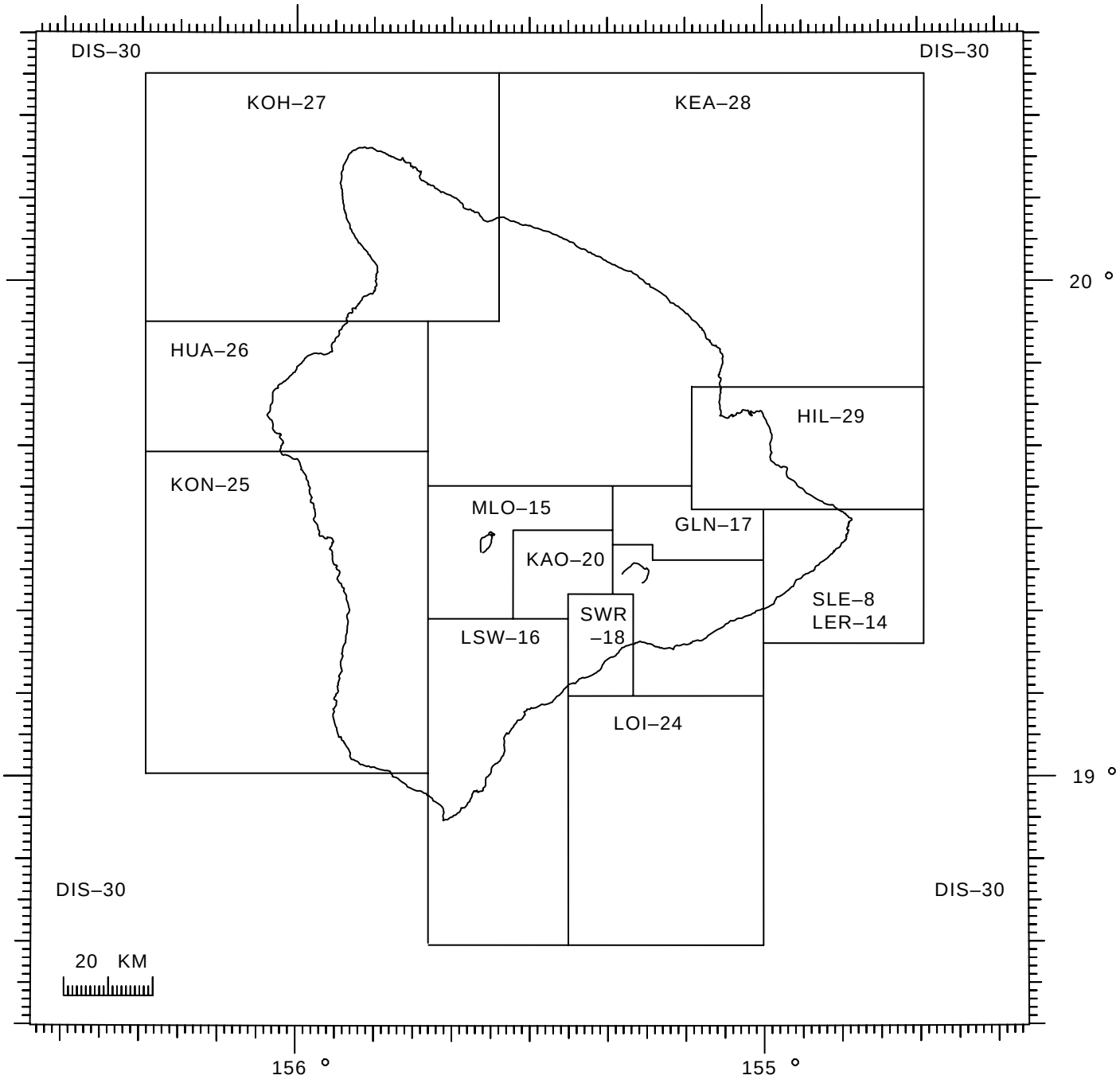

Figure 9. Earthquake classification, crustal (0-13 km deep), for the Island of Hawai‘i.

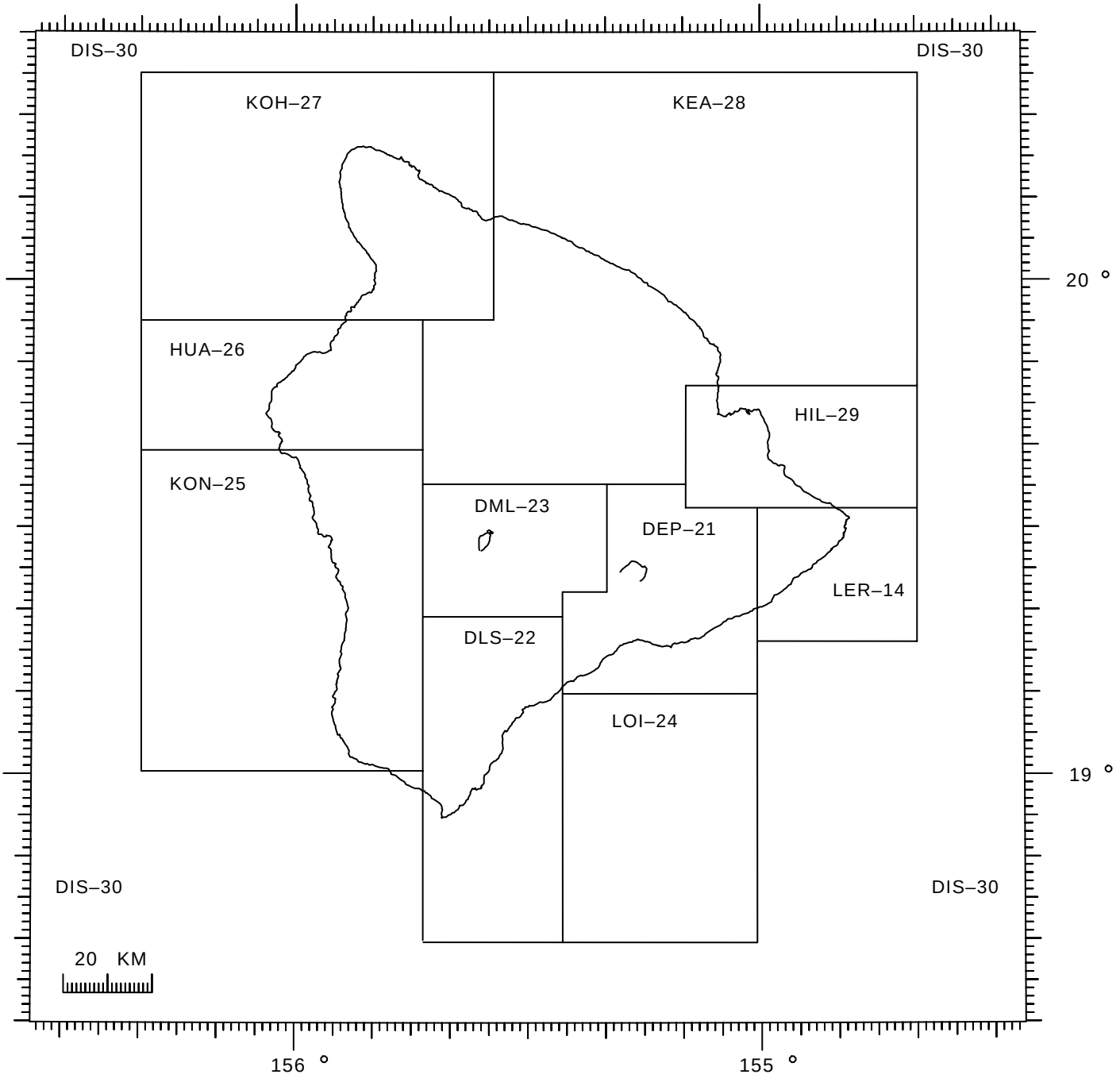

Figure 10. Earthquake classification, deep (greater than 13 km deep), for the Island of Hawai‘i.

Figure 11. 2001 earthquake locations, Hawaiian Islands,
0–60 km depth, M>=3.5.

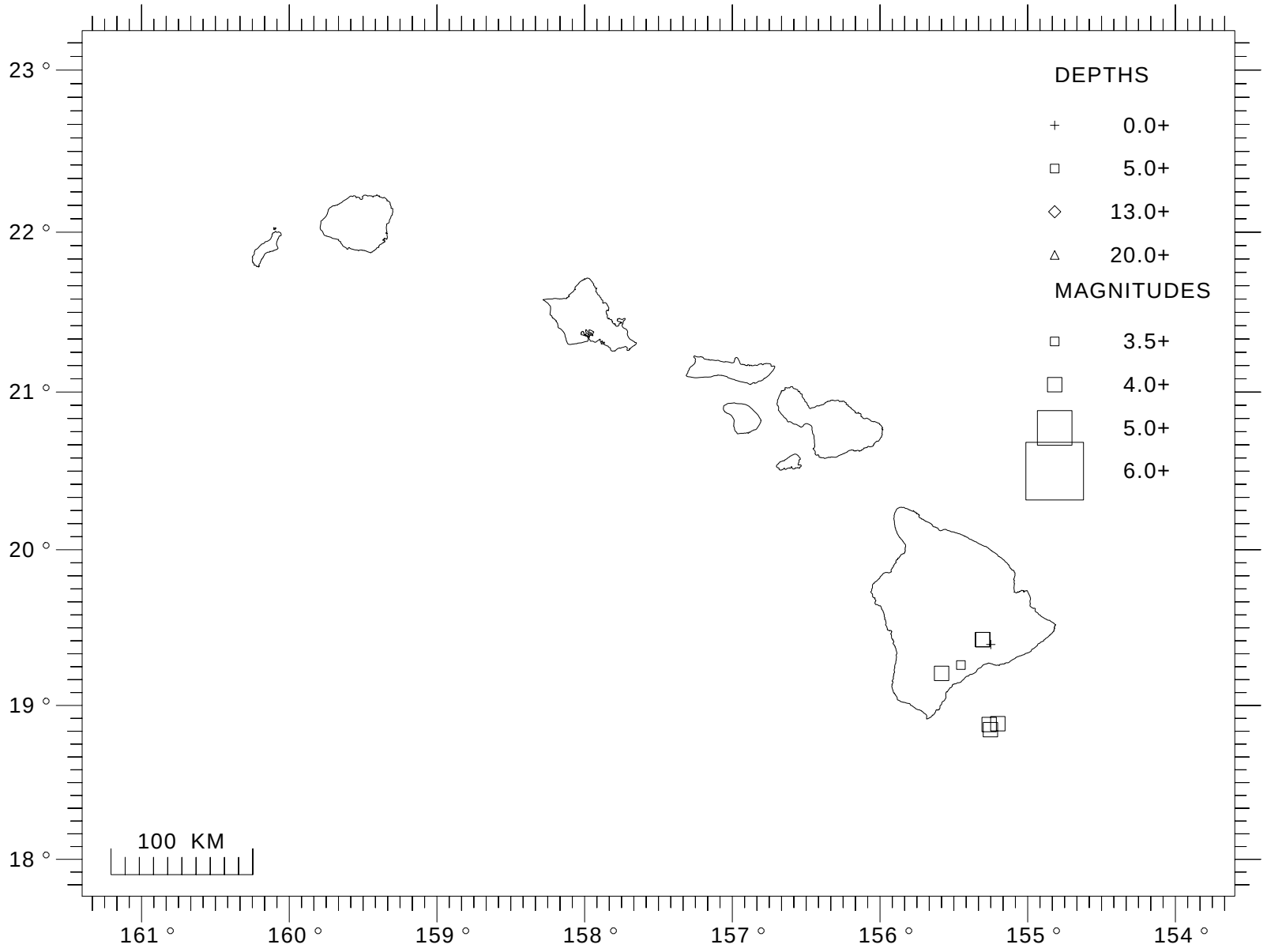

Figure 12. 2001 earthquake locations, Hawai‘i Island, 0–60 km depth, M>=3.0.

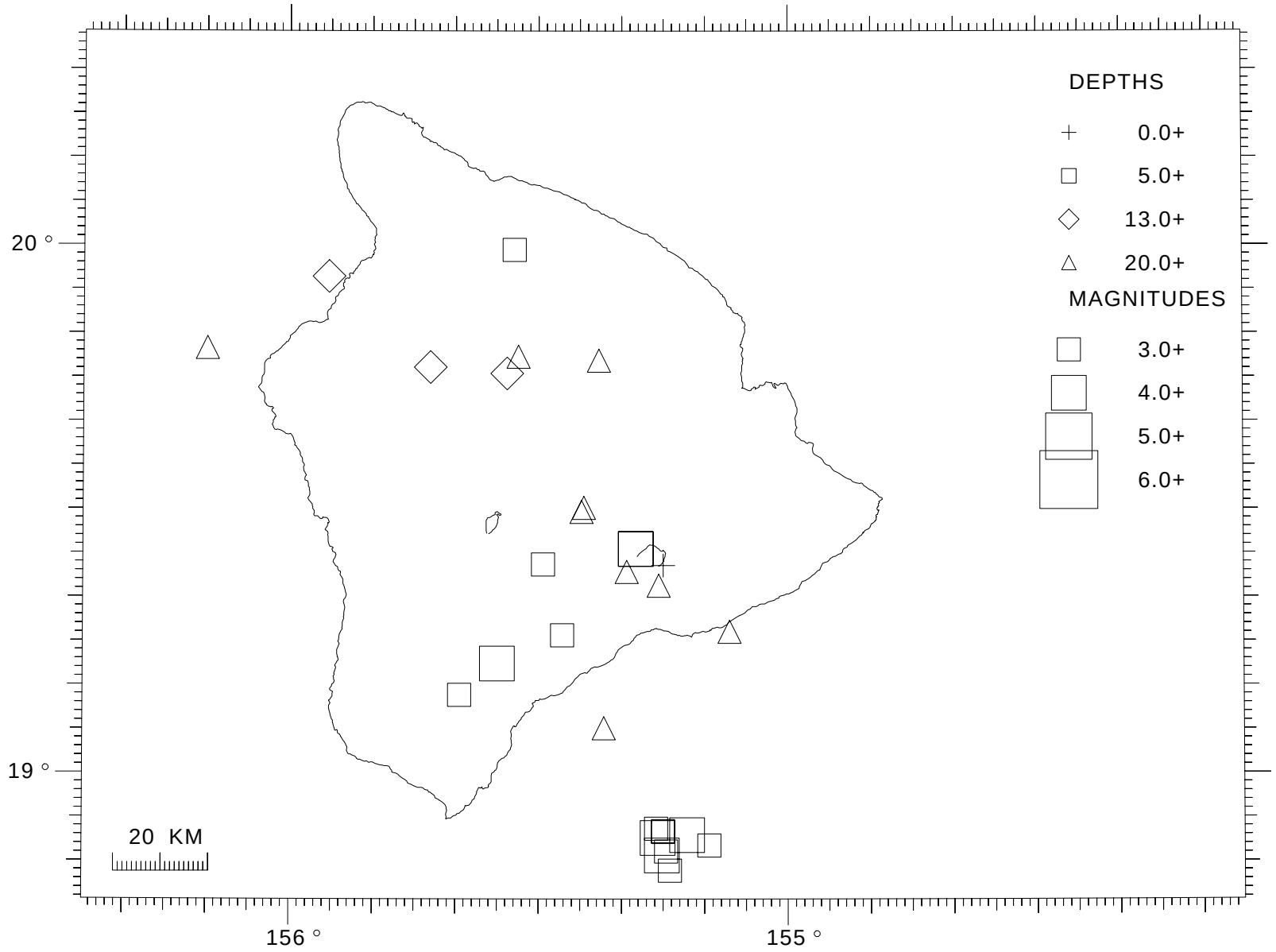

Figure 13. 2001 earthquake locations, Hawai‘i Island, shallow (0–5.0 km depth), M>=2.0.

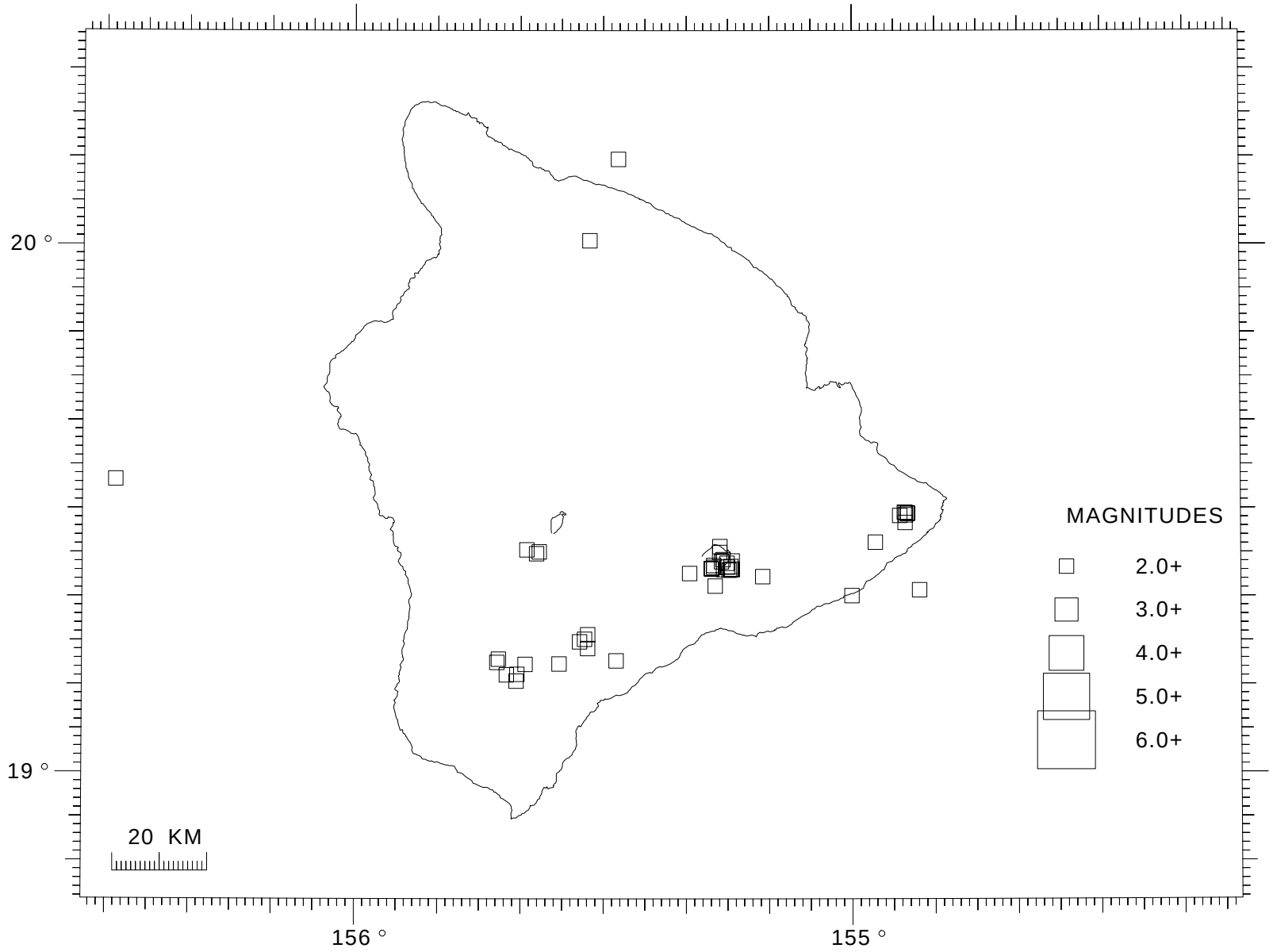

Figure 14. 2001 earthquake locations, Hawai‘i Island, intermediate (5.1–13.0 km depth), M>=2.0.

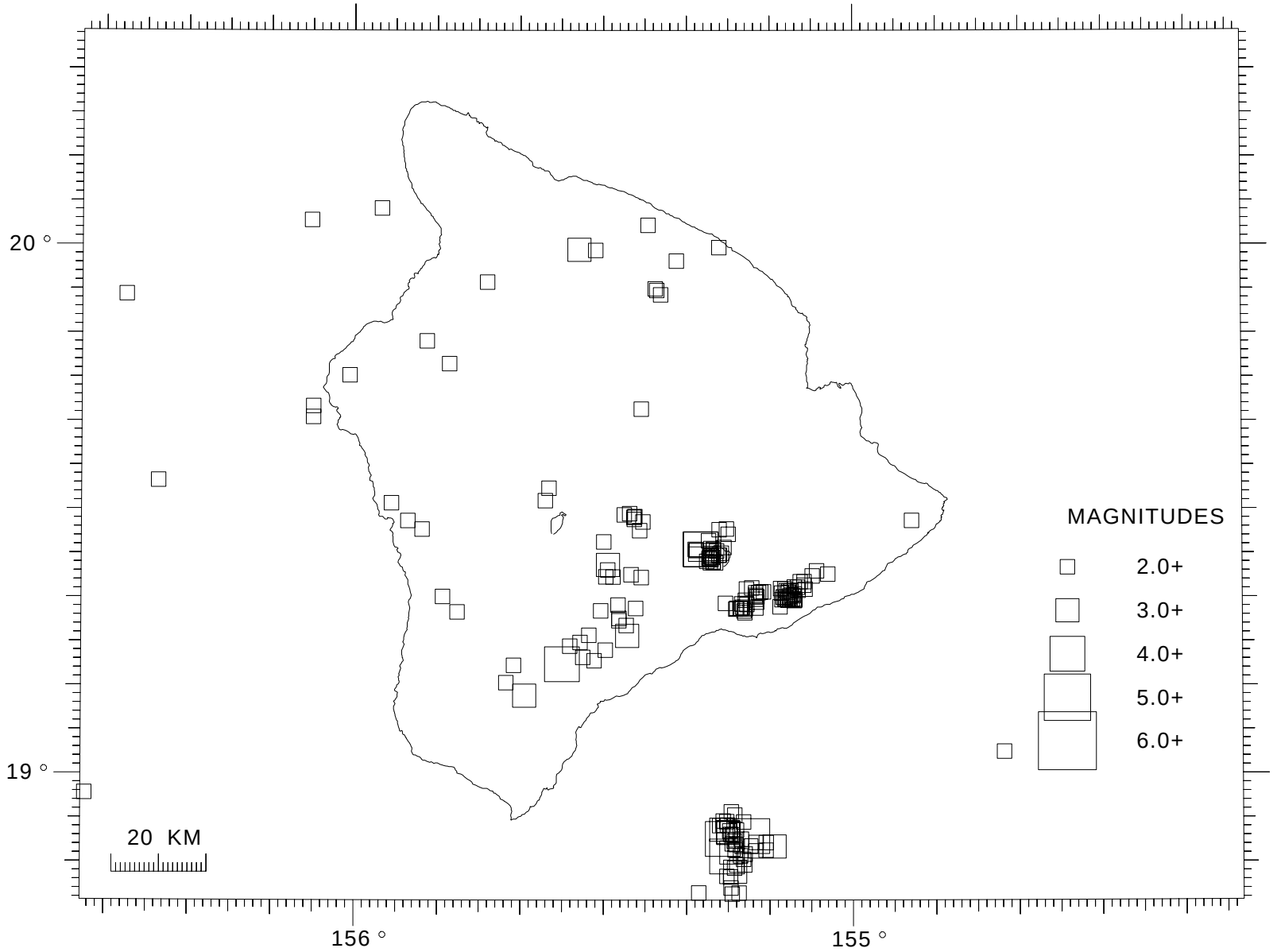

Figure 15. 2001 earthquake locations, Hawai‘i Island, deep (13.1–60.0 km depth), M>=2.0.

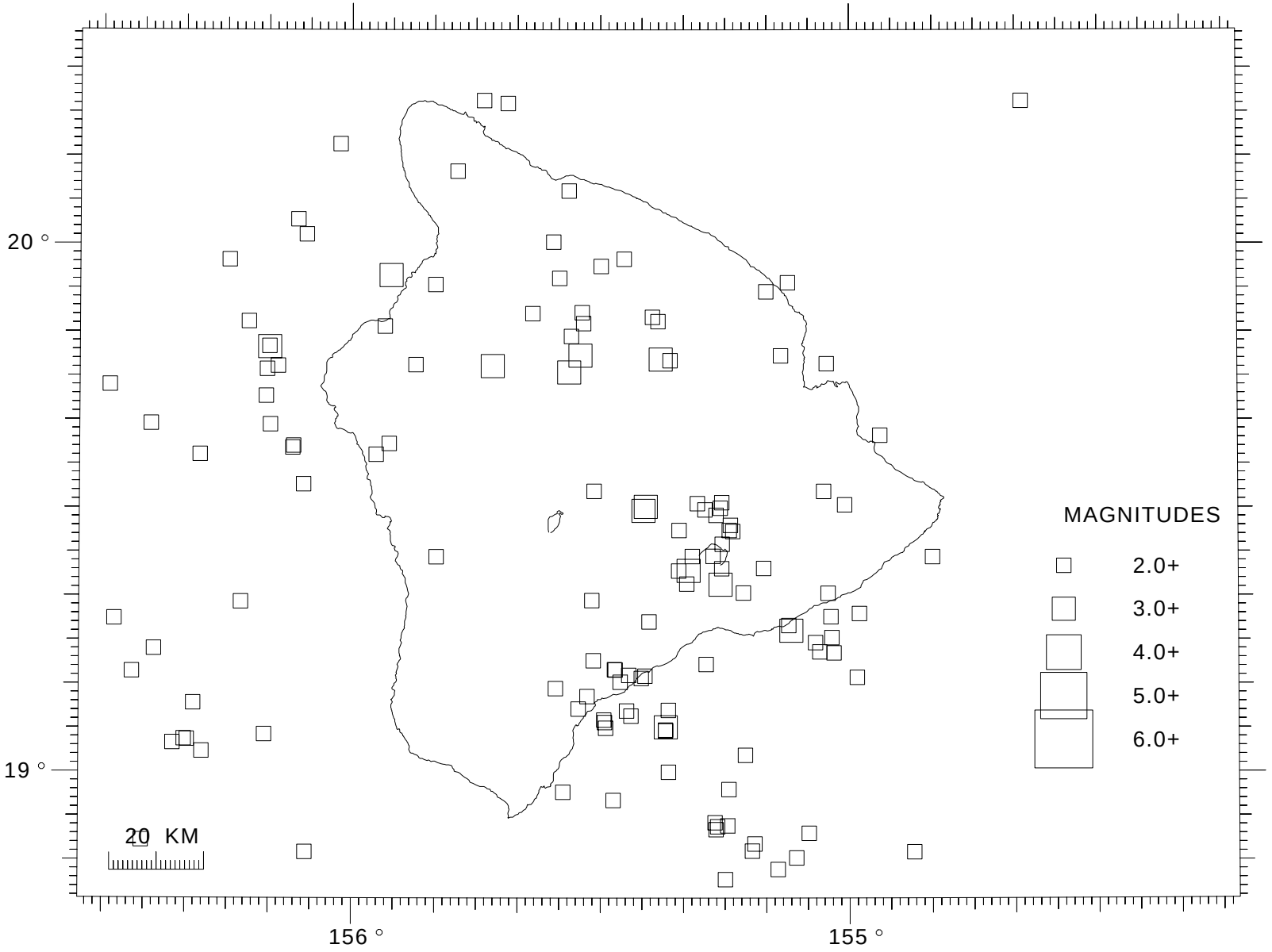

Figure 16. 2001 earthquake locations, Kilauea summit, shallow (0–5.0 km depth), M>=1.0.

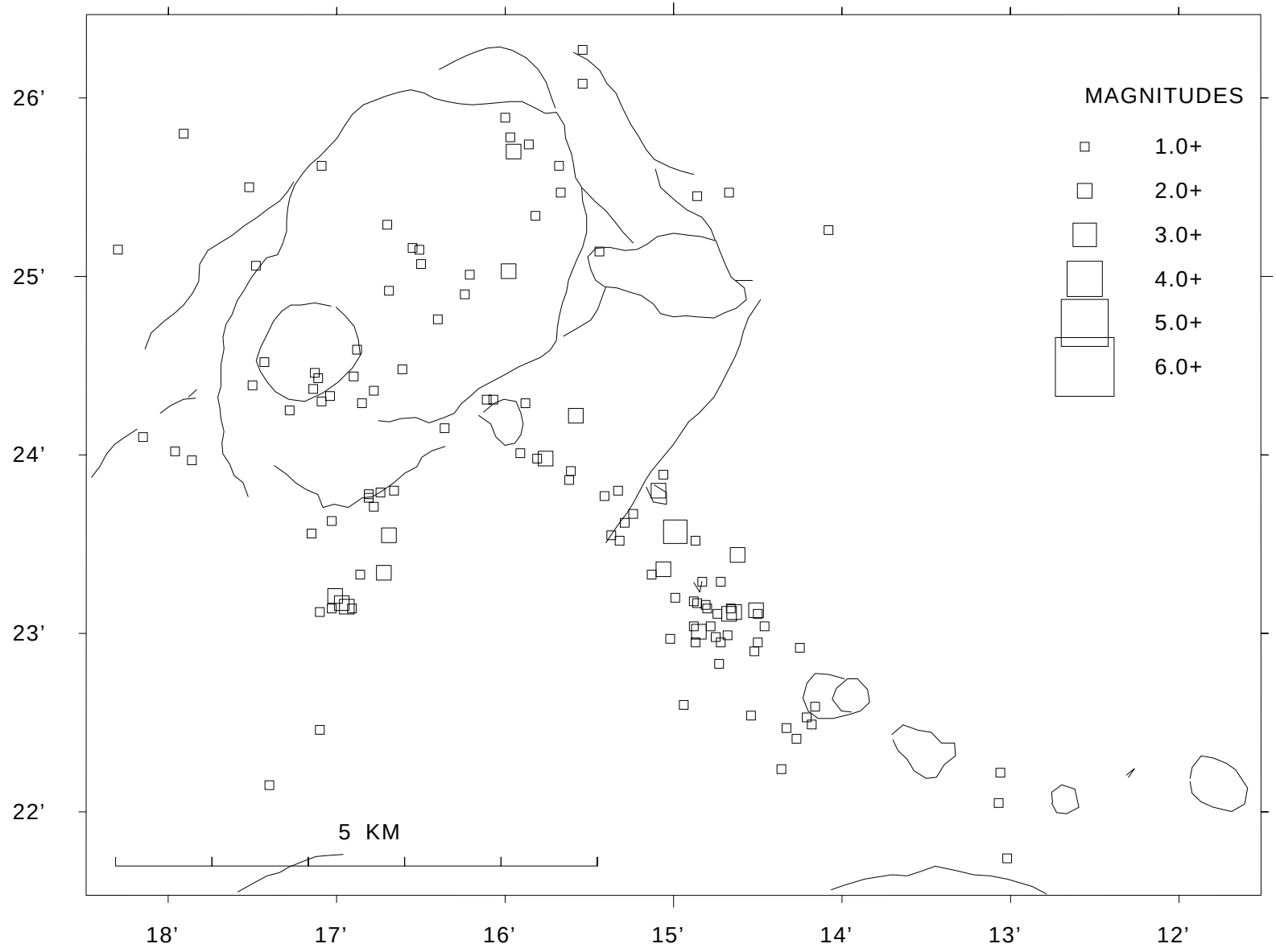

Figure 17. 2001 earthquake locations, Kilauea summit, intermediate (5.1–13.0 km depth), M>=1.0.

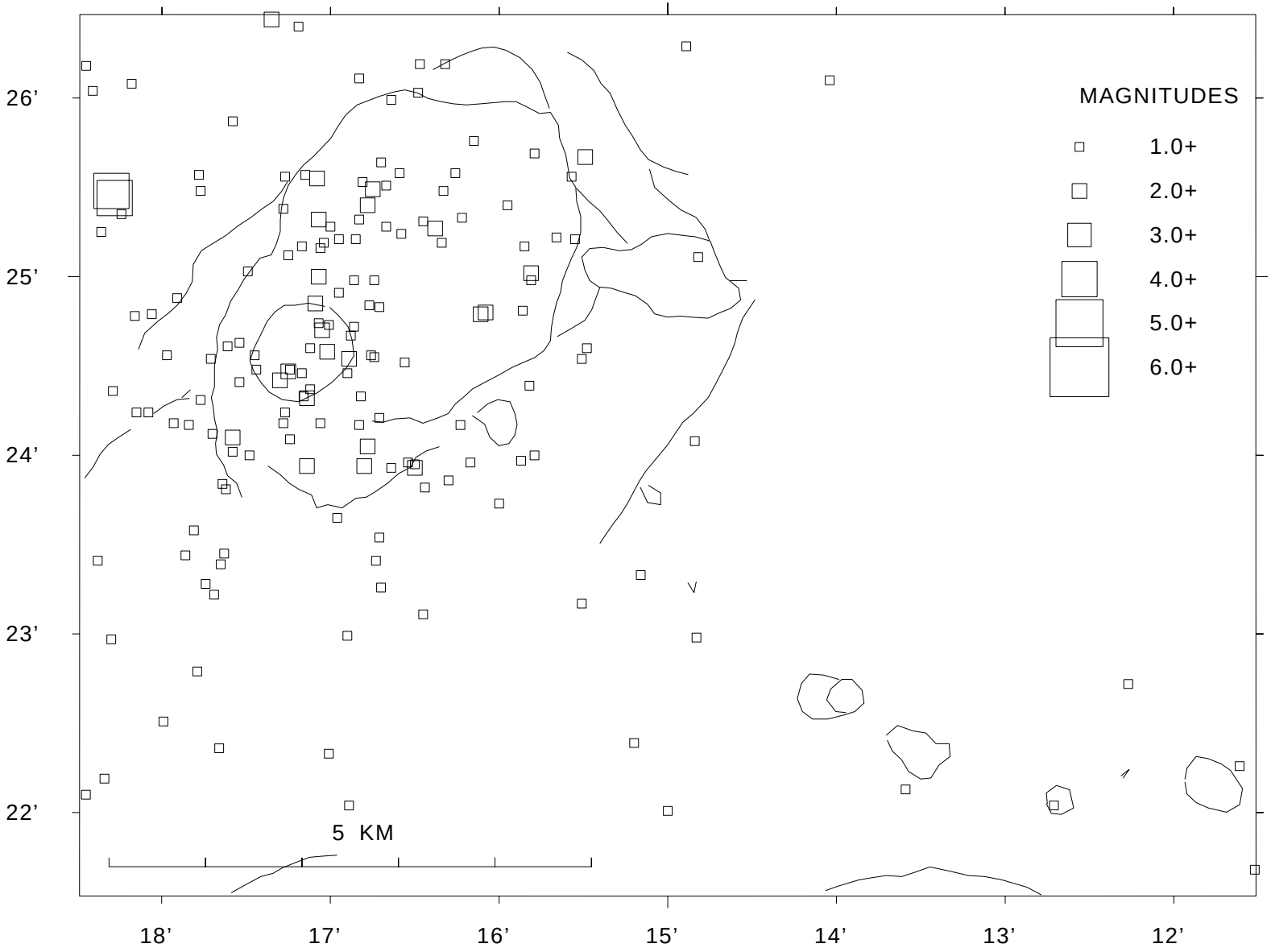

Figure 18. 2001 earthquake locations, Kilauea summit, deep (13.1–60.0 km depth), M>=1.0.

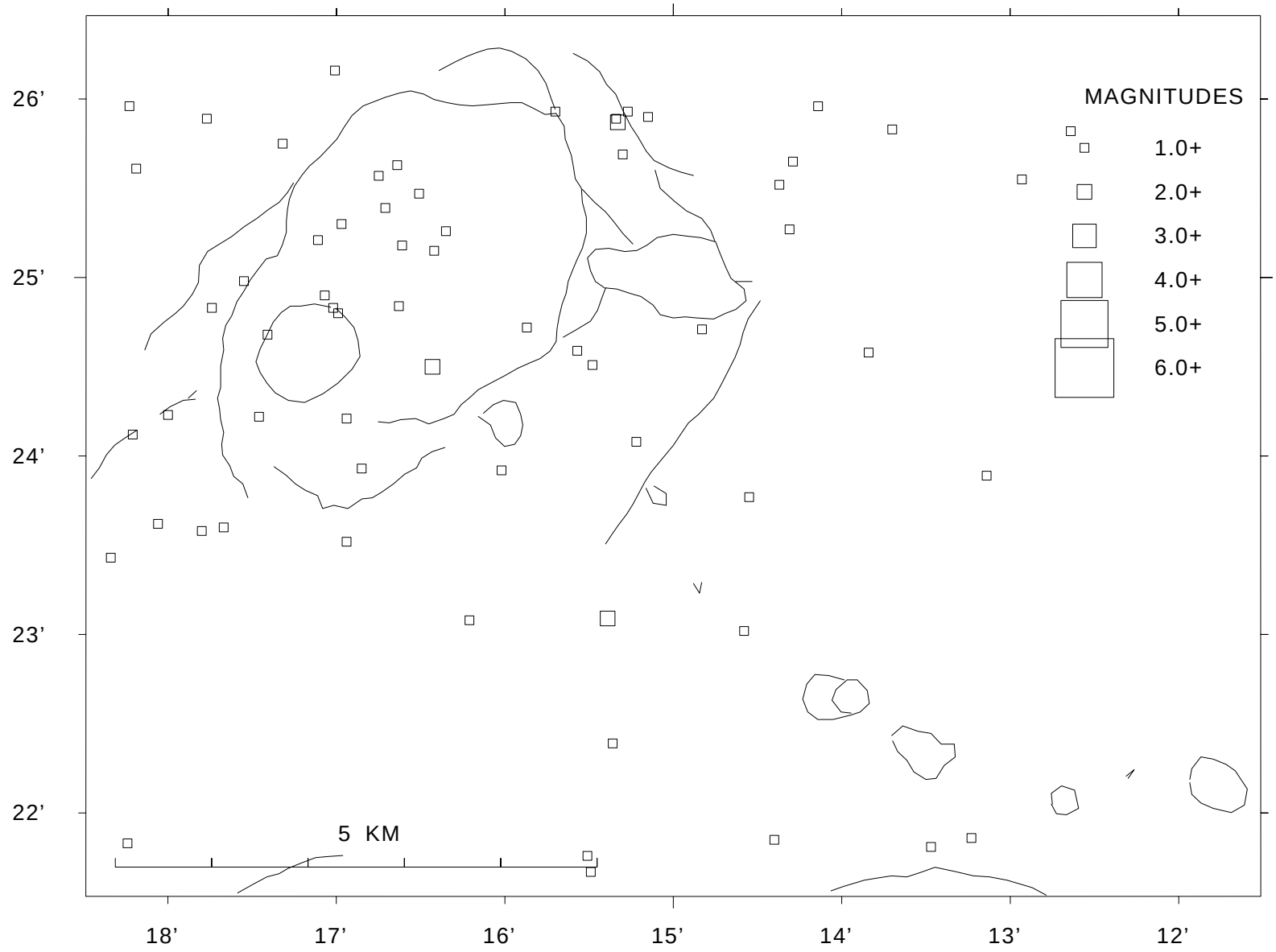

Figure 19. 2001 earthquake locations, Kilauea south flank, shallow (0–5.0 km depth), M>=2.0.

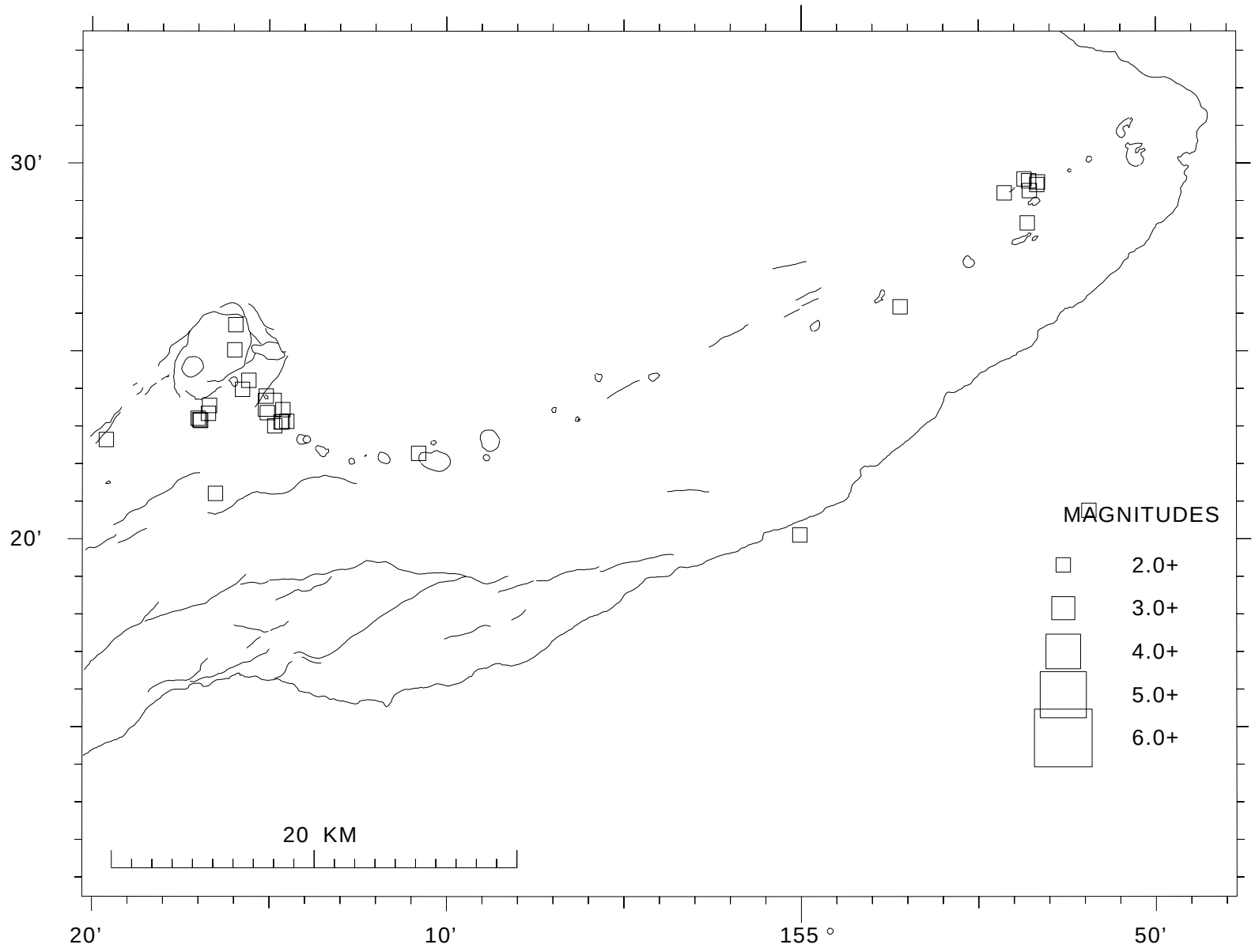

Figure 20. 2001 earthquake locations, Kilauea south flank, intermediate (5.1–13.0 km depth), M>=2.0.

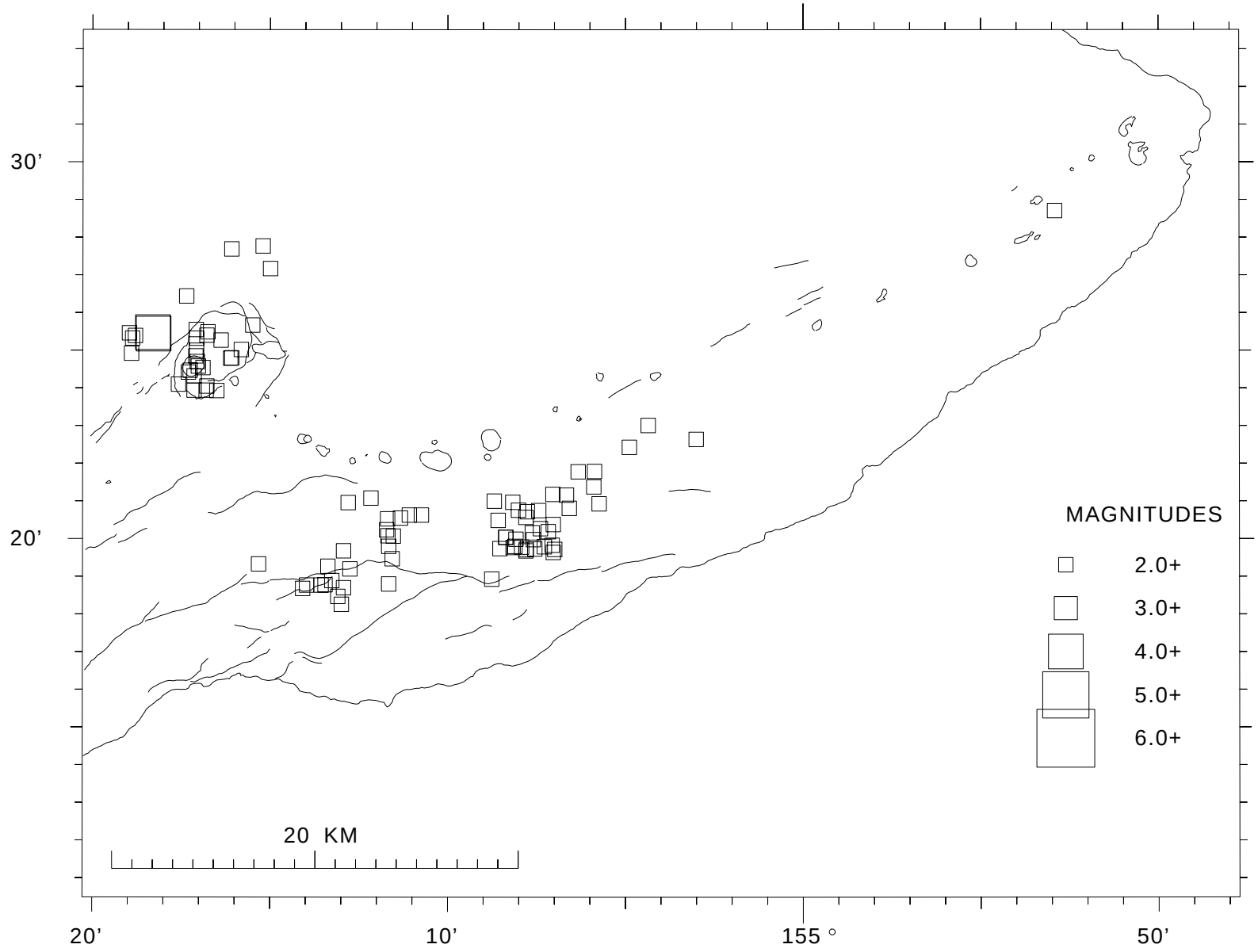

Figure 21. 2001 earthquake locations, Kilauea south flank, deep (13.1–60.0 km depth), M>=2.0.

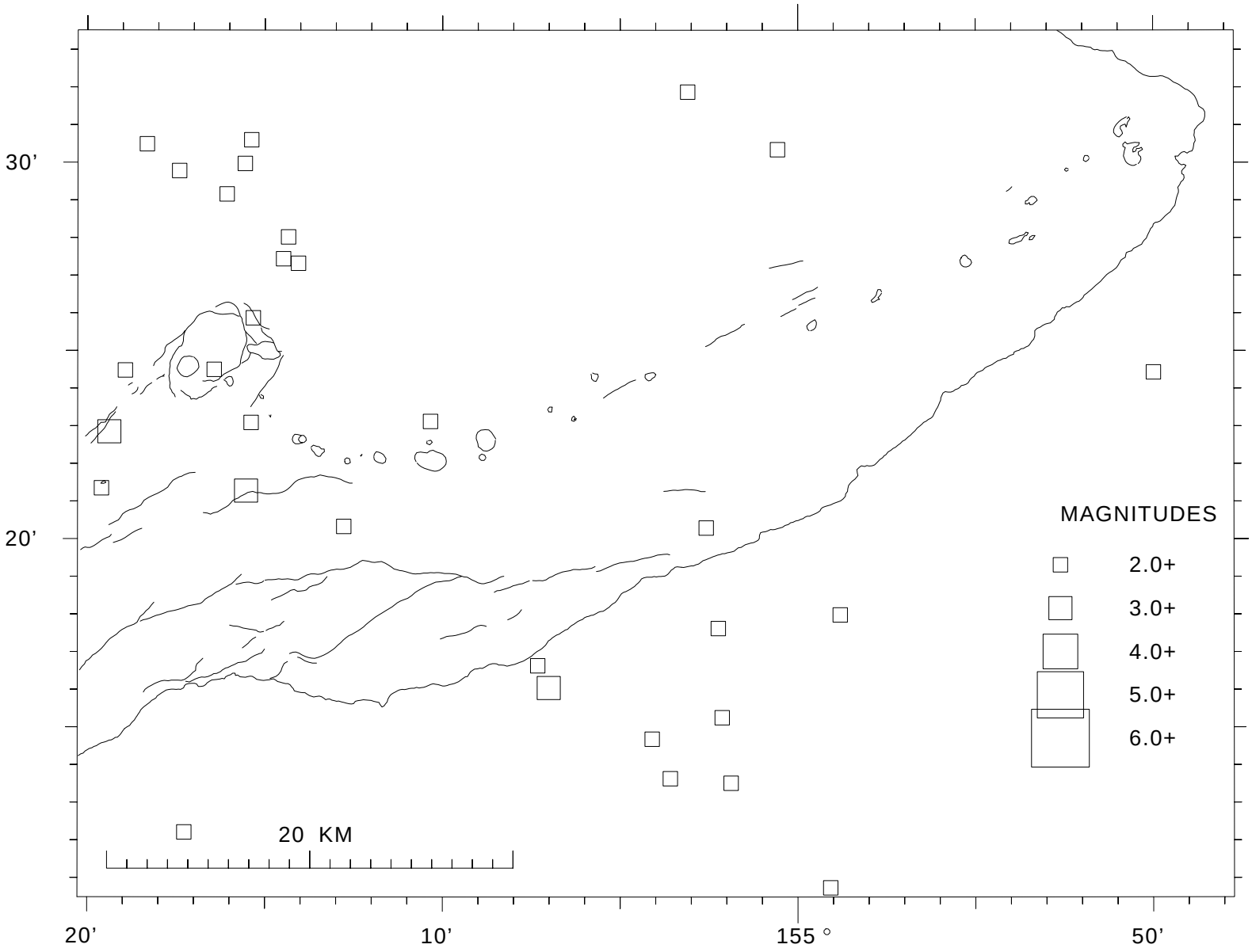

Figure 22. 2001 earthquake locations, Mauna Loa summit, shallow (0–5.0 km depth), M>=2.0.

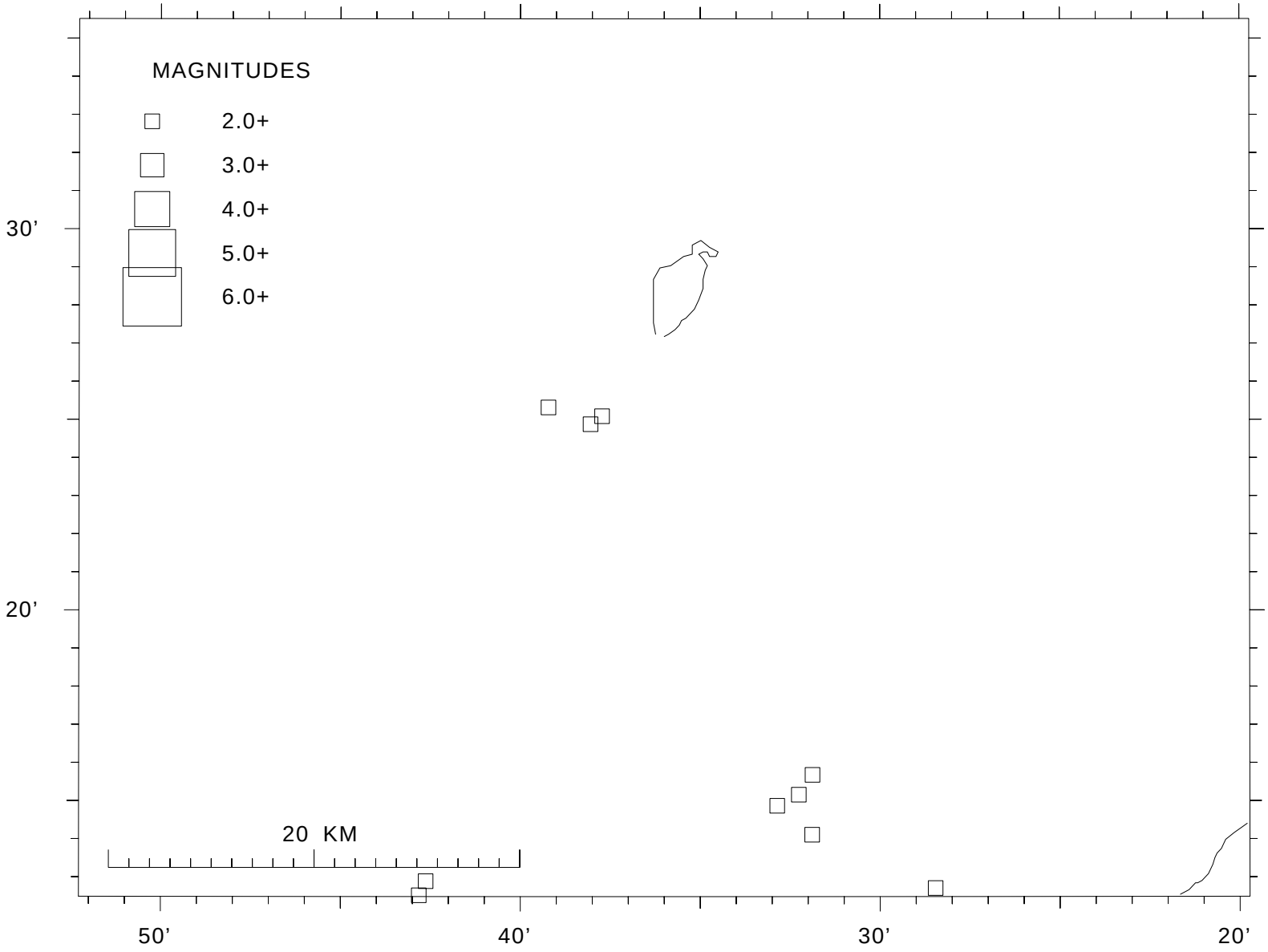

Figure 23. 2001 earthquake locations, Mauna Loa summit, intermediate (5.1–13.0 km depth), M>=2.0.

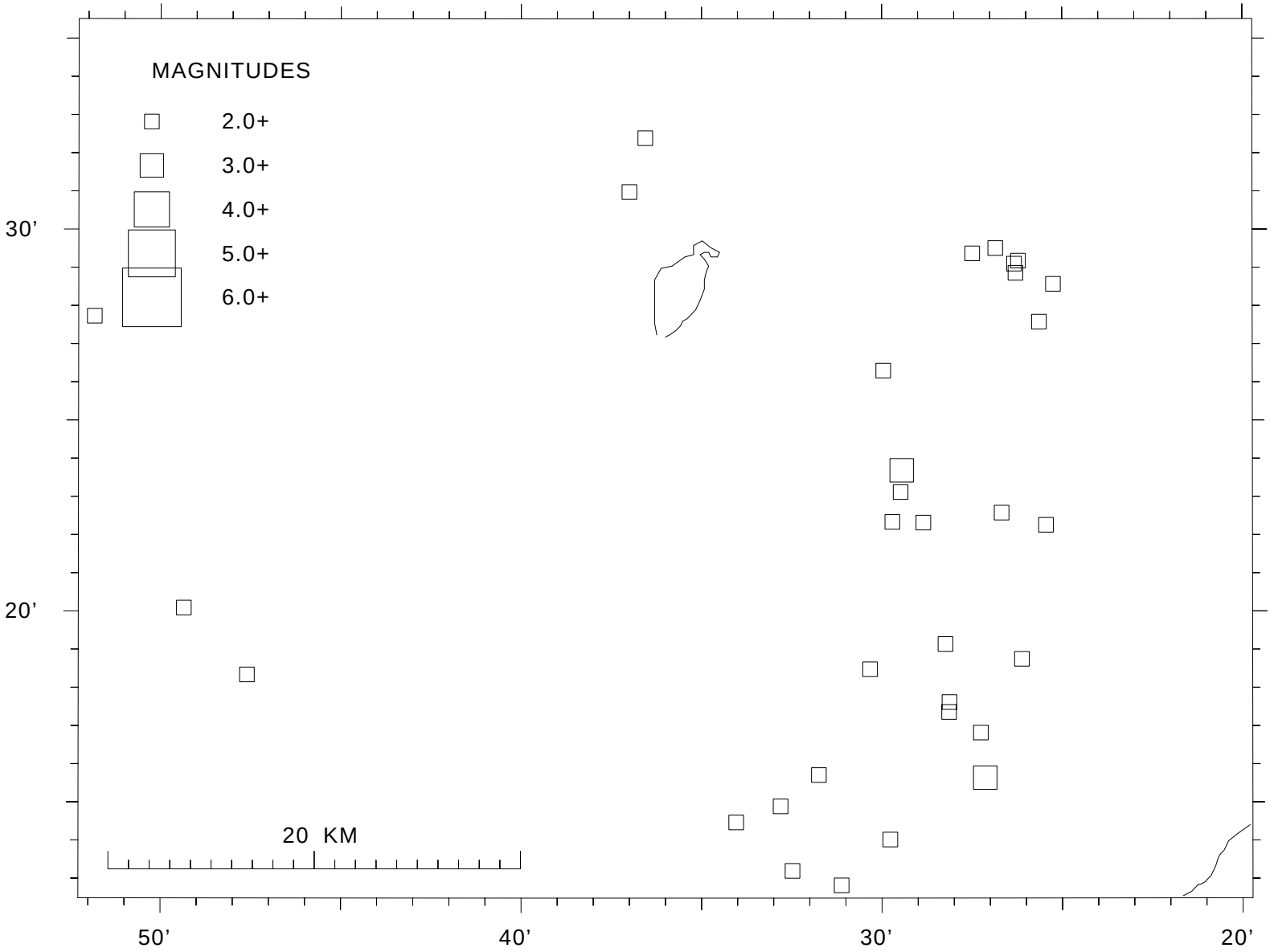

Figure 24. 2001 earthquake locations, Mauna Loa summit, deep (13.1–60.0 km depth), M>=2.0.

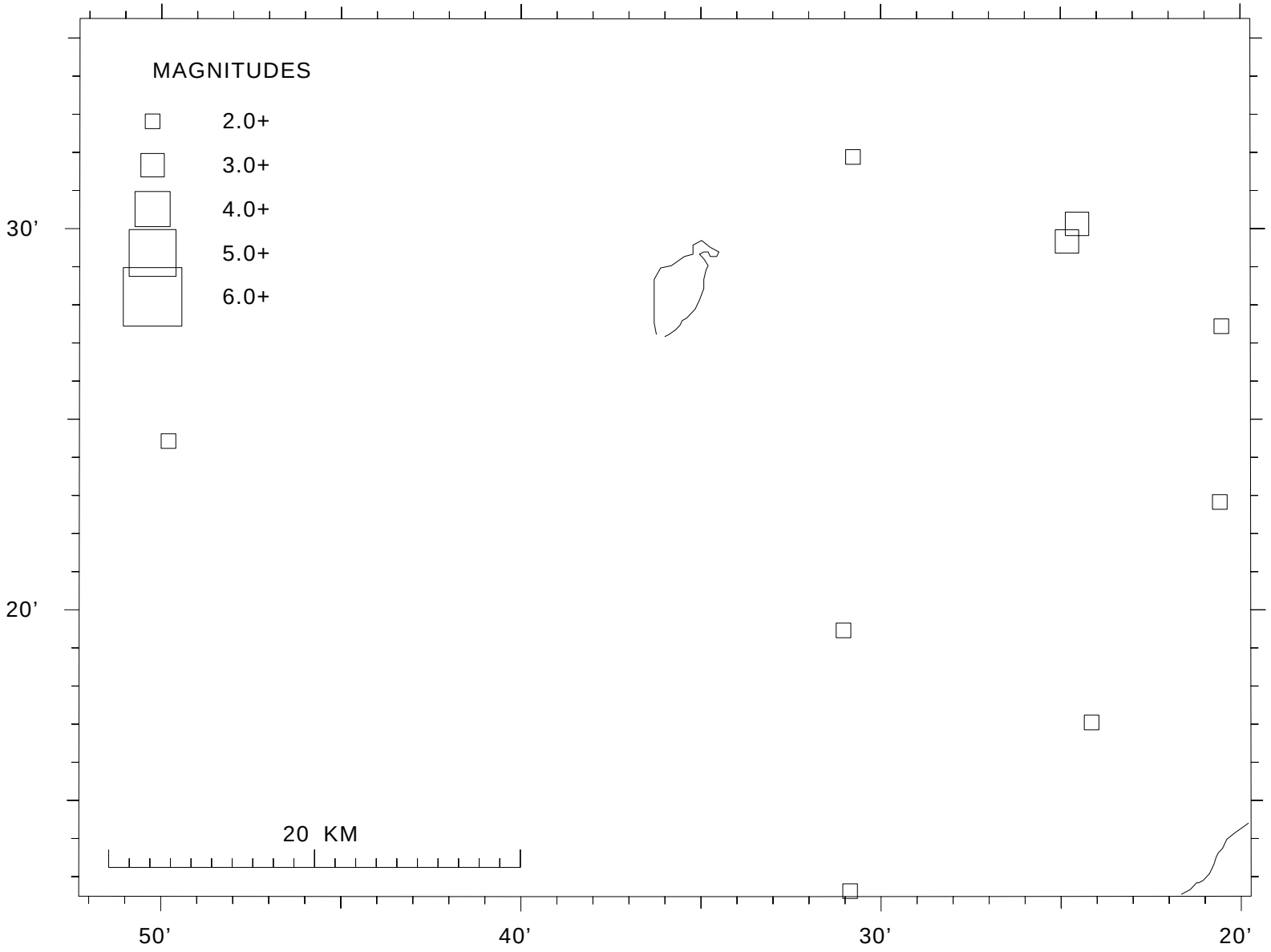

Table 4 is a chronological list of selected events successfully located during 2001. For each event, the following data are presented:

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) in Old Hawaiian Datum.

DEPTH - Depth of focus in kilometers.

NRD - Number of P & S readings with final weights > 0.1.

NS - Number of S readings with final weights > 0.1

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

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

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

LOC REMKS - Remarks, three-letter code for geographic location of events. See Figures 7-10 for location of mnemonic code. Additional one-letter codes have the following meanings:

F felt

L long-period character

T associated with harmonic tremor

B quarry or other blast

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

- the depth was held fixed.

PREF MAG – The preferred magnitude chosen from the available magnitudes.
Preference set as: X-amplitude magnitude, if none
D-Develocorder duration magnitude, if none
U-external magnitude, usually calculated from drum records.

NRD – The total weight of amplitude magnitude readings from contributing stations.

AZ GAP - Largest azimuthal gap in degrees between azimuthally adjacent stations.

MIN DS – Distance to the nearest station, in kilometers.

Table 5 is a list of events of magnitude 3.0 or greater, selected from Table 4.

Table 4.

ORIGIN YEAR	MON	DA	TIME (HST) HRMN	SEC	LAT N DEG	MIN	LON W DEG	MIN	DEPTH KM	N RD	N S	RMS SEC	ERH KM	ERZ KM	LOC REMKS	PREF MAG	N RD	AZ GAP	MIN DS
2001	JAN	1	0044	36.11	19	12.63	155	25.72	39.91	30	3	.10	.8	1.8	DLS	1.7X		151	4
2001	JAN	1	0336	27.10	19	12.86	155	32.44	5.79	13		.13	.6	2.3	LSW	1.5X		130	6
2001	JAN	1	0358	16.73	19	12.48	155	25.51	40.13	28	4	.10	.8	1.7	DLS	1.6X		153	4
2001	JAN	1	0519	8.54	19	28.75	154	53.43	0.12	11	2	.09	1.0	.6	SLE	.6X		169	4
2001	JAN	1	0519	12.45	19	29.58	154	53.71	0.03	10	1	.14	.6	1.0	SLE #	2.0U		166	5
2001	JAN	1	0634	35.85	19	25.87	155	18.72	6.66	28	8	.08	.5	.7	INT	1.8X		88	2
2001	JAN	1	0913	30.29	19	13.62	155	26.98	12.60	15	1	.09	.7	1.1	LSW	1.3X		145	5
2001	JAN	1	1144	38.33	19	14.52	155	19.06	29.71	35	7	.11	.7	1.4	DEP	1.7X		158	6
2001	JAN	1	1242	16.04	19	12.83	155	29.24	5.48	19	2	.16	.7	1.9	LSW	1.2X		140	4
2001	JAN	2	0104	40.20	19	17.60	155	28.04	8.54	22	1	.12	.4	1.3	LSW	1.4X		120	6
2001	JAN	2	0302	2.20	19	19.60	155	7.44	6.51	22	3	.09	.6	1.2	SF4	1.5X		160	4
2001	JAN	2	0624	41.58	19	20.13	155	8.97	6.61	17	2	.06	.5	1.2	SF4	1.3X		139	4
2001	JAN	2	0654	48.77	19	45.40	155	33.79	14.71	42	7	.12	.4	.4	KEAF	3.2X		112	11
2001	JAN	2	0710	57.55	19	45.40	155	34.37	14.02	23	3	.12	1.0	.6	KEA	1.7X		182	12
2001	JAN	2	0756	5.79	19	16.93	155	27.15	7.61	30	3	.13	.4	.9	LSW	1.9X		84	6
2001	JAN	2	1929	7.40	19	21.11	155	5.10	5.22	15		.08	.9	2.2	SF5	1.3X		200	6
2001	JAN	2	1949	38.93	19	21.81	155	4.69	6.81	16	2	.10	.9	.7	SF5	1.3X		203	5
2001	JAN	2	2022	24.58	19	11.08	155	30.99	12.54	18	2	.08	.6	.8	LSW	1.1X		142	8
2001	JAN	2	2140	41.09	19	29.89	155	17.05	23.14	29	6	.09	.7	.7	DEP	1.6X		144	4
2001	JAN	2	2147	38.79	19	59.43	155	18.05	4.81	13	3	.09	1.5	1.6	KEA	1.5X		310	28
2001	JAN	2	2233	41.46	19	19.38	155	9.71	7.63	23	2	.11	.6	.8	SF3	1.3X		97	5
2001	JAN	2	2247	4.55	19	20.13	155	11.83	7.23	22	2	.12	.5	.9	SF3	1.4X		80	5
2001	JAN	2	2337	25.30	19	26.93	155	53.50	15.74	14	1	.12	1.4	1.3	KON	.8X		155	5
2001	JAN	3	0132	16.79	19	20.15	155	8.72	8.28	18	2	.10	.7	.8	SF4	1.4X		148	4
2001	JAN	3	0135	59.86	19	20.24	155	11.31	8.58	20	1	.11	.5	.7	SF3	1.2X		81	4
2001	JAN	3	0447	51.17	19	21.74	155	6.96	8.05	18	2	.10	.6	.7	SF4	1.2X		147	3
2001	JAN	3	0712	21.91	19	13.93	155	28.63	7.97	10	1	.08	.7	.9	LSW	1.0X		178	3
2001	JAN	3	1452	33.81	19	20.54	155	19.12	5.03	38	7	.12	.3	1.2	SWR	2.0X		63	3
2001	JAN	3	1607	24.76	19	19.62	155	7.72	7.98	20	2	.08	.7	.9	SF4	1.3X		150	4
2001	JAN	3	2230	37.79	19	19.95	155	7.32	7.40	21	2	.07	.6	.7	SF4	1.3X		160	5
2001	JAN	3	2310	56.08	19	29.64	155	57.26	18.78	14	1	.14	4.5	3.7	KON	1.3X		275	4
2001	JAN	4	0033	20.17	19	23.79	154	59.93	8.37	18		.13	2.9	.7	LER	1.5X		278	7
2001	JAN	4	0117	38.82	19	20.88	155	12.98	7.66	29	3	.12	.4	.6	SF2	1.5X		67	3
2001	JAN	4	0128	41.11	19	10.68	155	16.64	52.15	21	1	.12	1.2	3.2	DEP	1.5X		192	13
2001	JAN	4	0148	40.83	19	13.52	155	28.01	8.94	14	1	.11	.6	1.0	LSW	1.1X		140	5
2001	JAN	4	0450	47.74	19	20.05	155	7.76	7.63	26	2	.08	.5	.6	SF4	1.8X		145	5
2001	JAN	4	0524	27.92	19	47.66	156	1.95	32.78	25	2	.11	1.1	2.1	HUA	1.8X		178	24
2001	JAN	4	0630	20.19	19	15.51	155	27.18	27.18	14		.13	.9	3.0	DLS	1.2X		106	6
2001	JAN	4	0924	24.85	19	18.59	155	15.01	5.65	18	1	.07	.5	1.4	SF1	.9X		108	4
2001	JAN	4	1654	57.28	19	18.70	155	14.81	4.96	16		.07	.6	1.9	SSF	1.0X		143	5
2001	JAN	4	1722	30.67	19	59.25	156	5.09	9.44	19	2	.15	.8	1.4	KOH	1.8X		176	36
2001	JAN	4	1749	17.33	19	11.99	155	29.19	6.76	16		.13	.7	1.8	LSW	1.3X		143	6
2001	JAN	4	1838	30.71	19	50.58	156	5.10	38.26	22	3	.13	2.5	2.1	HUA	1.8X		312	31
2001	JAN	4	2155	9.23	19	30.76	155	45.94	9.95	18	4	.11	.6	1.9	KON	1.1X		78	16
2001	JAN	4	2223	2.96	19	22.12	155	5.41	6.46	24	2	.14	.7	.9	SF4	1.5X		178	5
2001	JAN	4	2257	51.71	19	20.32	155	8.25	7.52	23	2	.11	.6	.7	SF4	1.5X		130	4
2001	JAN	4	2258	6.32	19	19.74	155	8.53	6.82	14	4	.07	.5	1.1	SF4	2.0X		125	5
2001	JAN	5	0246	47.46	19	11.13	155	28.10	35.87	22	3	.10	.9	2.0	DLS	1.5X		152	8
2001	JAN	5	0422	35.58	20	7.42	156	7.79	40.01	14	5	.13	1.3	2.3	KOH	1.6X		175	37
2001	JAN	5	0731	21.34	19	20.48	155	24.84	0.06	15	2	.07	.4	.5	SWR #	.7X		70	11
2001	JAN	5	0926	38.44	19	25.08	155	19.45	5.99	15	3	.08	.7	1.3	KAO	1.1X		139	3
2001	JAN	5	1817	11.94	19	12.15	155	24.26	37.36	17	1	.10	1.5	2.5	DEP	1.3X		217	4
2001	JAN	5	1825	41.72	19	19.56	155	8.08	8.00	22	2	.09	.6	.8	SF4	1.6X		138	4
2001	JAN	5	1900	18.57	19	28.36	155	24.47	33.08	22	5	.10	.8	1.4	DML	1.5X		64	3
2001	JAN	5	1914	48.25	19	19.85	155	8.40	6.67	18	2	.08	.6	1.2	SF4	1.3X		128	5
2001	JAN	5	2309	27.02	19	57.96	155	35.46	37.62	11	2	.10	2.8	1.6	KOH	1.4X		318	25
2001	JAN	5	2338	26.26	19	25.32	155	39.22	2.22	19	2	.17	.5	.7	MLO	2.1X		125	3
2001	JAN	6	0227	13.40	19	18.24	155	1.52	36.24	23	2	.07	1.8	1.6	DEP	1.3X		264	11
2001	JAN	6	1045	40.89	19	24.99	155	21.23	1.40	11	3	.08	.5	.8	KAO	1.2X		176	5
2001	JAN	6	1045	51.49	19	26.56	155	18.72	8.85	8	2	.07	2.3	.9	INT	1.4X		182	3
2001	JAN	6	1253	2.58	19	19.90	155	10.96	7.48	21	2	.08	.5	.9	SF3	.9X		89	4
2001	JAN	6	1304	3.98	19	12.82	155	31.12	11.37	38	7	.13	.5	.7	LSW	2.3X		134	5
2001	JAN	6	1705	42.73	19	22.32	155	28.85	11.45	28	3	.11	.4	.9	KAO	2.0X		42	9
2001	JAN	6	1735	31.23	20	2.79	156	6.50	38.79	37	6	.13	.9	1.6	KOH	2.3X		176	27
2001	JAN	6	1919	14.81	19	12.22	155	30.94	9.28	18	1	.10	.6	1.2	LSW	1.0X		137	5
2001	JAN	6	2102	17.58	20	0.00	155	28.96	20.77	15	1	.10	3.1	3.9	KEA	1.3X		298	24
2001	JAN	6	2227	55.15	19	26.30	155	29.96	10.48	40	8	.09	.3	.7	KAO	2.6X		42	9
2001	JAN	7	0123	23.16	19	30.80	155	19.97	12.28	15	3	.09	1.3	.6	MLO	1.5X		235	6
2001	JAN	7	0325	11.92	19	19.89	155	9.63	6.61	25	2	.14	.6	.9	SF3	1.6X		98	4
2001	JAN	7	0501	35.24	19	22.32	155	5.39	6.35	24	2	.11	.6	.8	SF4	1.8X		176	4
2001	JAN	7	1324	7.40	19	27.25	155	29.82	12.41	14	3	.08	.7	1.8	KAO	1.0X		111	7
2001	JAN	7	1532	6.41	19	4.27	156	10.50	43.24	3910		.10	1.2	1.6	KON	2.5X		279	39
2001	JAN	7	1709	21.32	19	24.86	155	20.35	2.17	13	3	.07	.4	1.0	KAO	1.2X		150	5
2001	JAN	7	1808	19.42	19	56.77	155	37.71	16.87	12	3	.15	2.5	17.2	KOH -	1.5X		312	41
2001	JAN	7	1826	33.02	19	20.77	155	13.46	8.40	19	2	.13	.6	.8	SF2	1.2X		118	3
2001	JAN	7	1849	27.21	19	25.34	154	58.30	4.07	18		.14	1.3	2.4	SLE	1.7X		172	10
2001	JAN	8	0103	40.29	19	22.64	155	3.01	8.60	26	2	.08	1.0	.4	SF5	2.1X		252	4
2001	JAN	8	0214	28.51	19	25.87	155	18.62	7.58	14	5	.06	1.4	1.0	INT	1.2X		125	2
2001	JAN	8	0300	52.21	19	19.99	155	9.35	7.50	20	3	.06	.5	.9	SF3	1.6X		105	4
2001	JAN	8	0435	44.89	19	13.76	155	26.62	6.44	20	1	.11	.7	1.3	LSW	1.5X		179	5
2001	JAN	8	0518	29.18	19	14.47	155	34.04	8.10	36	5	.17	.4	1.0	LSW	2.1X		110	5
2001	JAN	8	1707	42.98	19	30.17	155	29.80	4.31	30	7	.15	.4	2.2	MLO	1.8X		71	5
2001	JAN	9	0329	1.30	19	18.91	155	13.11	3.83	22	1	.10	.4	1.3	SSF	1.4X		84	4
2001	JAN	9	0424	15.56	19	49.17	155	23.77	25.17	29	8	.12	1.2	1.4	KEA	1.6X		249	8
2001	JAN	9	1202	8.86	19	19.64	155	12.93	9.16	32	5	.12	.5	.7	SF2	1.9X		117	6
2001	JAN	9	1435	17.95	19	20.85	155	11.64	7.68	26	3	.11	.5	.7	SF3	1.5X		113	4
2001	JAN	9	1536	48.00	19	11.93	155	29.54	11.98	11	3	.05	1.1	.9	LSW	1.2X		280	6
2001	JAN	9	1717	7.89	19	23.92	155	16.02	22.50	23	4	.10	.9	1.2	DEP	1.6X		139	1
2001	JAN	9	2236	26.91	19	46.87	155	22.74	27.22	44	8	.11	.6	1.2	KEAF	3.3X		162	8
2001	JAN	10	0251	16.97	19	21.98	155	27.94	12.57	22	2	.10	.5	1.4	KAO	1.3X		71	10

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JAN	10	0734	12.23	19	25.78	155	27.86	10.84	19	3	.10	.5	1.5	KAO	1.2X		68	9
2001	JAN	10	0815	1.24	19	25.06	155	17.48	3.20	14	5	.12	.8	.3	SNCL	1.4X		132	1
2001	JAN	10	1506	47.02	19	22.01	155	28.55	11.81	21	2	.12	.5	1.1	KAO	1.2X		63	9
2001	JAN	10	2148	6.31	19	15.48	155	28.06	8.42	22	1	.14	.5	.9	LSW	1.4X		144	4
2001	JAN	10	2331	28.41	19	15.03	155	2.55	41.79	22	1	.12	1.8	2.0	DEP	1.7X		244	10
2001	JAN	11	0008	30.27	19	12.91	155	33.27	8.82	25	2	.14	.7	1.1	LSW	1.5X		173	7
2001	JAN	11	0018	48.63	19	13.15	155	33.07	8.23	20		.11	.6	1.0	LSW	1.1X		123	6
2001	JAN	11	0616	45.69	19	28.11	155	26.81	8.10	31	4	.12	.4	1.1	KAO	1.8X		46	6
2001	JAN	11	0725	44.91	19	24.57	155	29.44	14.29	14	1	.14	.8	1.8	DML	1.3X		68	6
2001	JAN	11	1743	29.37	19	24.62	154	40.54	36.64	25	1	.14	4.6	2.8	LER	2.0X		303	19
2001	JAN	11	1903	11.73	19	21.03	155	12.75	8.29	25	2	.13	.6	.6	SF2	1.5X		114	3
2001	JAN	12	0514	46.49	19	28.78	155	27.05	11.95	20	4	.12	.6	1.5	KAO	1.2X		102	6
2001	JAN	12	0515	18.58	19	28.49	155	27.06	12.20	29	5	.11	.4	.8	KAO	1.9X		61	7
2001	JAN	12	0958	30.69	19	12.73	155	26.00	38.84	28	5	.09	.7	1.3	DLS	1.7X		150	5
2001	JAN	12	1331	30.81	19	20.25	155	7.64	6.59	26	5	.08	.4	.8	SF4	1.2X		126	5
2001	JAN	12	1428	57.29	19	27.29	155	37.22	10.98	16	3	.08	1.1	.9	MLO	1.3X		177	2
2001	JAN	12	1943	24.62	19	24.10	155	18.15	2.34	14	6	.08	.6	.6	SSCL	1.4X		198	3
2001	JAN	12	2035	40.09	19	26.52	155	18.54	6.48	30	6	.10	.5	.6	INT	1.3X		58	3
2001	JAN	12	2209	52.28	19	25.68	155	20.12	5.26	19	4	.07	.8	1.1	KAO	1.2X		136	4
2001	JAN	13	0821	56.17	19	12.52	155	9.39	45.00	36	9	.10	1.0	1.1	DEP	1.8X		207	9
2001	JAN	13	1143	32.82	19	27.87	155	23.98	10.50	24	9	.09	.5	.8	KAO	1.4X		124	6
2001	JAN	13	1205	32.22	19	23.34	155	30.39	13.96	19	3	.09	.6	1.0	DML	1.4X		49	5
2001	JAN	13	2253	4.69	19	19.53	155	10.94	7.35	25	5	.11	.4	.6	SF3	1.3X		105	5
2001	JAN	14	0917	7.28	19	20.29	155	10.91	7.23	26	6	.09	.4	.6	SF3	1.3X		81	4
2001	JAN	14	1514	9.77	19	18.59	155	13.19	6.61	34	7	.12	.4	.8	SF2	1.9X		87	3
2001	JAN	15	0238	57.98	20	26.93	155	52.00	40.52	19	5	.13	1.9	1.5	DIS	1.6X		196	37
2001	JAN	15	0526	15.20	19	12.53	155	22.89	54.71	25	2	.15	1.2	2.4	DEPT	1.2X		159	4
2001	JAN	15	1123	52.34	19	17.57	155	24.87	6.64	37	8	.15	.3	1.1	SWR	1.3X		73	6
2001	JAN	15	2105	42.40	19	4.53	155	23.40	37.49	16	1	.12	1.5	2.7	LOI	1.3X		247	18
2001	JAN	16	0929	27.96	19	20.03	155	9.80	6.27	21	2	.08	.6	1.1	SF3	1.4X		95	4
2001	JAN	16	1034	45.15	19	22.18	155	29.99	12.80	22	4	.10	.4	1.0	KAO	1.2X		49	7
2001	JAN	17	0606	16.65	19	24.37	155	17.14	1.95	14	6	.10	.5	.3	SSCL	1.7X		115	1
2001	JAN	17	0837	42.35	19	36.08	156	18.29	17.88	34	4	.18	1.7	14.7	KON -	2.1X		222	42
2001	JAN	17	1022	22.34	19	25.29	155	19.52	6.71	27	6	.11	.4	.8	KAO	1.4X		72	3
2001	JAN	17	1439	42.43	19	23.25	155	1.84	7.48	20	2	.13	.9	.6	SF5	1.5X		168	4
2001	JAN	17	1603	58.90	19	19.25	155	11.28	6.55	20	4	.08	.5	1.2	SF3	1.1X		103	6
2001	JAN	17	1632	0.68	19	11.17	155	40.41	2.26	42	8	.15	.4	1.0	LSW	2.3X		99	10
2001	JAN	17	1653	54.81	19	47.28	155	8.27	39.10	4614		.11	.7	1.0	KEA	2.1X		189	15
2001	JAN	17	2216	1.33	19	22.66	155	1.47	7.96	25	3	.13	.8	.6	SF5	1.2X		184	6
2001	JAN	17	2322	41.09	19	10.65	155	27.84	35.16	27	3	.08	.7	1.3	DLS	1.3X		155	9
2001	JAN	18	0756	17.16	19	18.88	155	13.04	4.44	28	3	.11	.4	1.6	SSF	1.4X		86	4
2001	JAN	18	1257	28.18	19	22.32	155	29.86	6.74	4512		.11	.3	1.5	KAO	1.7X		51	13
2001	JAN	18	1426	18.53	20	27.93	155	52.77	27.79	28	5	.18	1.7	1.6	DIS	1.9X		197	31
2001	JAN	18	1626	50.49	19	58.12	155	36.04	26.29	19	4	.11	1.0	2.7	KOH	1.4X		153	26
2001	JAN	18	1801	44.11	19	13.80	155	32.76	5.02	26	5	.12	.5	1.4	LSW	1.4X		119	5
2001	JAN	18	1824	54.40	19	41.37	155	25.45	12.96	4813		.13	.3	.3	KEA	2.7X		68	11
2001	JAN	18	2012	3.58	19	29.18	155	26.22	7.59	4512		.12	.3	.7	KAO	2.7X		63	5
2001	JAN	18	2013	6.37	19	29.10	155	26.47	7.29	34	6	.12	.4	1.1	KAO	1.8X		48	6
2001	JAN	18	2105	23.76	19	7.99	155	20.49	54.37	26	2	.15	1.5	2.3	LOI	1.6X		222	13
2001	JAN	19	0104	29.96	19	10.19	155	41.19	1.23	24	2	.12	.4	1.0	LSW	1.3X		96	8
2001	JAN	19	0106	22.99	19	24.50	155	16.43	15.05	5015		.11	.4	.2	DEP	2.2X		42	1
2001	JAN	19	0746	26.56	19	22.99	155	29.82	8.59	32	4	.09	.4	1.3	KAO	1.5X		46	13
2001	JAN	19	1041	48.24	19	4.25	155	29.91	31.50	25	4	.09	.9	1.6	DLS	1.5X		184	20
2001	JAN	19	1452	53.83	19	20.04	155	8.37	7.66	4413		.10	.4	.5	SF4	2.0X		106	5
2001	JAN	19	1558	18.01	19	23.97	155	17.86	1.87	19	7	.10	.4	.3	SSCL	1.8X		132	2
2001	JAN	19	1618	33.33	19	13.19	155	28.30	6.40	35	7	.16	.5	1.1	LSW	1.6X		141	5
2001	JAN	19	2047	47.86	19	20.27	155	8.69	7.16	31	6	.07	.5	.6	SF4	1.3X		104	4
2001	JAN	20	0305	41.91	19	28.86	155	26.29	8.27	4011		.12	.4	.9	KAO	2.1X		49	6
2001	JAN	20	0519	53.20	19	12.26	155	41.91	7.83	32	6	.16	.4	1.1	LSW	1.6X		88	9
2001	JAN	20	1648	57.96	19	59.70	155	16.09	12.36	33	6	.12	1.3	.4	KEA	2.0X		279	14
2001	JAN	20	1747	47.15	18	48.92	155	16.09	50.62	30	4	.09	1.7	1.9	LOI	2.0X		277	46
2001	JAN	20	1824	17.01	19	13.43	155	28.51	8.45	28	5	.12	.6	.9	LSW	1.6X		178	4
2001	JAN	20	2123	24.73	19	20.69	155	12.75	7.86	36	7	.11	.4	.5	SF2	1.3X		114	4
2001	JAN	20	2358	45.04	19	25.41	155	29.36	8.14	38	7	.10	.3	1.1	KAO	1.7X		38	11
2001	JAN	21	0350	52.53	19	24.35	155	26.72	9.66	32	4	.13	.4	1.2	KAO	1.3X		53	11
2001	JAN	21	0522	28.28	19	16.82	155	28.34	10.13	36	5	.18	.4	.8	LSW	1.6X		91	4
2001	JAN	21	0554	27.33	19	20.12	155	7.04	7.54	26	4	.09	.5	.5	SF4	1.6X		165	5
2001	JAN	21	1826	47.17	19	29.10	155	26.33	7.94	39	9	.13	.4	.9	KAO	2.0X		63	5
2001	JAN	21	1906	2.89	19	19.52	155	7.44	7.48	35	9	.09	.4	.5	SF4	1.6X		138	4
2001	JAN	22	0413	46.23	19	18.89	155	13.26	8.74	4010		.11	.4	.6	SF2	2.1X		140	7
2001	JAN	22	0428	57.07	19	57.91	155	34.36	23.02	33	6	.11	.7	1.8	KOH	1.8X		152	24
2001	JAN	22	0954	43.69	19	29.50	154	53.33	2.50	30	5	.12	.6	1.4	SLEF	2.3X		110	5
2001	JAN	22	1340	29.82	19	19.20	155	12.88	9.60	37	9	.11	.4	.6	SF2	1.8X		135	6
2001	JAN	22	1351	1.83	19	18.53	155	12.91	8.96	30	5	.09	.6	.7	SF2	1.5X		161	8
2001	JAN	22	2149	29.95	19	16.13	155	32.04	5.08	30	5	.12	.4	1.1	LSW	1.3X		85	4
2001	JAN	23	0455	36.84	18	50.89	154	52.23	42.06	41	8	.12	1.3	2.2	DIS	2.3X		280	56
2001	JAN	23	1437	43.22	19	24.44	155	16.90	1.51	22	9	.09	.3	.2	SSC	1.6X		112	1
2001	JAN	23	2018	17.45	19	22.83	155	14.73	3.22	17	6	.06	.4	.3	SEC	1.4X		127	2
2001	JAN	23	2159	8.16	19	55.59	155	7.42	14.93	5315		.12	.6	.8	KEAF	2.8X		200	23
2001	JAN	24	0021	55.60	19	58.27	155	27.15	36.01	5014		.12	.7	1.0	KEA	2.2X		185	15
2001	JAN	24	0541	23.55	19	23.48	155	2.66	2.94	23		.09	.9	.5	SME	1.5X		172	3
2001	JAN	24	0542	23.80	19	11.41	155	33.57	0.57	21	5	.11	.4	.4	LSW	1.4X		133	9
2001	JAN	24	0933	48.23	19	23.39	155	17.65	11.23	22	3	.10	.7	.6	INTL	1.5X		87	1
2001	JAN	24	0939	52.42	19	19.72	155	8.13	6.63	27	3	.09	.5	.9	SF4	1.3X		117	4
2001	JAN	24	1138	0.33	19	20.42	155	7.20	7.45	36	7	.09	.4	.6	SF4	1.7X		135	5
2001	JAN	24	1530	16.83	19	13.63	155	3.59	46.77	4712		.12	1.0	.9	DEP	2.1X		219	10
2001	JAN	25	0639	38.77	20	1.19	155	33.15	1.35	20	6	.12	.8	.5	KEA	1.7X		186	26
2001	JAN	25	0711	42.12	19	23.97	155	2.80	3.09	32	5	.11	.6	.5	SME	2.0X		144	2
2001	JAN	25	0717	37.78	19	24.23	155	18.00	17.85	17	4	.16	1.6	1.1	DEPL	1.6X		73	2
2001	JAN	25	1243	26.34	19	20.24	155	13.12	5.75	24	3	.09	.4	.9	SF2	1.2X		66	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JAN	25	1256	26.63	19	18.01	155	30.39	2.84	28	3	.11	.3	1.3	LSW	1.4X		66	5
2001	JAN	25	1301	54.01	19	18.48	155	15.07	5.62	27	2	.09	.4	1.1	SF1	1.2X		111	4
2001	JAN	25	1342	18.81	19	22.21	155	28.78	8.64	4210		.12	.3	1.3	KAO	1.8X		41	13
2001	JAN	25	1517	9.09	19	12.30	155	39.42	1.42	5012		.18	.4	.6	LSW	2.7X		101	13
2001	JAN	25	1531	15.36	19	27.87	154	56.54	46.48	4011		.11	.7	.7	LER	2.0X		111	2
2001	JAN	25	2205	13.06	19	24.99	155	3.15	3.76	21	5	.08	.6	.4	SME	1.4X		123	2
2001	JAN	26	0022	50.74	19	23.33	155	16.86	3.18	33	7	.09	.3	.2	SSC	1.7X		46	0
2001	JAN	26	0433	16.77	19	23.17	155	14.86	3.62	22	8	.08	.3	.3	SEC	1.7X		67	2
2001	JAN	26	1044	0.80	19	24.80	155	16.99	13.55	21	4	.07	.8	.6	DEPL	1.5X		98	0
2001	JAN	26	1324	54.59	19	23.60	155	17.67	15.65	24	6	.14	.9	.5	DEPL	1.5X		92	1
2001	JAN	26	1452	50.69	19	24.07	155	19.41	1.93	21	1	.11	.4	1.2	KAOL	1.5X		101	5
2001	JAN	26	1657	10.77	19	24.00	155	15.79	10.95	27	5	.13	.8	.6	INTL	1.7X		108	1
2001	JAN	26	1818	48.08	19	20.51	155	12.85	8.31	27	4	.12	.4	.5	SF2	1.3X		116	4
2001	JAN	26	1928	53.23	19	25.21	155	16.85	11.76	16	2	.11	1.1	1.0	INTL	1.4X		140	2
2001	JAN	26	1952	44.40	19	26.76	155	15.33	30.38	26	5	.10	.9	1.1	DEP	1.6X		148	4
2001	JAN	26	2038	54.56	19	24.83	155	17.74	14.24	20	5	.13	1.5	.6	DEPL	1.7X		134	1
2001	JAN	26	2201	40.88	19	25.12	155	17.25	11.75	21	3	.14	.7	.7	INTL	1.6X		117	3
2001	JAN	26	2354	6.13	19	25.26	155	16.35	14.22	27	6	.12	.7	.4	DEPL	1.6X		55	1
2001	JAN	27	0003	40.69	19	38.00	155	53.98	15.89	21	7	.11	1.3	.9	KON	1.5X		151	9
2001	JAN	27	0030	12.88	19	26.19	155	16.32	10.22	16	1	.10	.8	1.1	INTL	1.5X		148	4
2001	JAN	27	0126	48.08	19	24.83	155	17.02	13.28	21	5	.10	1.0	.6	DEPL	1.7X		81	0
2001	JAN	27	0525	27.00	19	23.14	155	17.03	3.52	22	3	.14	.4	.4	SSCL	1.2X		69	2
2001	JAN	27	0639	1.91	19	23.54	155	16.71	9.97	18	3	.08	.7	.6	INTL	1.4X		92	1
2001	JAN	27	0720	21.15	19	26.73	155	15.95	11.93	26	6	.11	.9	.6	INTL	1.6X		153	4
2001	JAN	27	0800	42.85	19	33.41	155	44.50	10.83	27	6	.12	.5	.6	KON	1.7X		83	17
2001	JAN	27	1001	58.37	19	24.22	155	18.99	13.94	26	6	.12	.9	.7	DEPL	1.8X		98	3
2001	JAN	27	1126	34.10	19	51.18	155	23.07	23.10	30	4	.09	.9	1.2	KEA	2.0X		156	6
2001	JAN	27	1157	22.30	19	25.99	155	16.64	12.91	20	5	.10	.9	.7	INTL	1.6X		145	2
2001	JAN	27	1306	19.38	19	24.08	155	15.22	14.50	17	1	.13	1.1	.4	DEPL	1.6X		114	2
2001	JAN	27	1426	32.07	19	25.48	155	16.33	12.51	25	5	.09	.7	.4	INTL	1.7X		87	2
2001	JAN	27	1507	1.67	19	24.39	155	15.82	12.74	23	5	.13	.9	.5	INTL	1.6X		124	2
2001	JAN	27	1649	5.83	19	24.48	155	17.24	10.12	28	7	.06	.5	.4	INTL	1.7X		57	1
2001	JAN	27	1734	27.20	19	25.33	155	16.22	7.77	14	2	.08	.7	1.0	INTL	1.4X		142	4
2001	JAN	27	1736	57.95	19	24.73	155	17.01	10.91	22	4	.09	.5	.5	INTL	1.5X		97	5
2001	JAN	27	1809	38.96	19	27.36	155	45.44	10.70	23	7	.12	.5	1.4	KON	1.3X		77	14
2001	JAN	27	1851	46.91	19	25.22	155	15.66	11.93	19	3	.12	.6	.6	INTL	1.7X		85	3
2001	JAN	27	1853	47.56	19	24.52	155	17.43	1.85	18	7	.10	.4	.2	SSCL	1.8X		157	1
2001	JAN	27	2038	32.41	19	12.98	155	32.67	8.78	40	9	.12	.5	.8	LSWF	1.6X		127	6
2001	JAN	27	2104	27.29	19	24.90	155	17.07	13.16	20	1	.12	.9	.6	DEPL	1.6X		133	0
2001	JAN	27	2110	6.72	19	23.97	155	15.87	12.65	24	7	.09	1.0	.5	INTL	1.7X		108	1
2001	JAN	27	2335	29.11	19	12.84	155	32.18	0.47	24	4	.14	.4	.4	LSW	1.5X		129	15
2001	JAN	28	0005	0.77	19	18.42	155	15.31	7.94	35	7	.09	.4	.6	SF1	1.4X		103	4
2001	JAN	28	0122	51.21	19	22.14	155	30.17	13.29	13		.09	.8	1.6	DML	1.5X		103	7
2001	JAN	28	0124	9.75	19	22.11	155	30.36	10.73	40	9	.12	.3	.8	KAO	1.8X		47	7
2001	JAN	28	0302	55.61	19	12.52	155	29.82	7.87	21		.11	.6	.8	LSW	1.6X		140	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JAN	28	0306	32.94	19	13.11	155	30.26	7.48	29	3	.10	.4	1.0	LSW	1.7X		135	4
2001	JAN	28	0612	36.55	19	56.09	155	34.94	31.42	35	6	.12	1.0	1.2	KOH	2.0X		236	21
2001	JAN	28	0727	33.17	19	27.89	154	54.91	3.91	13	1	.07	1.0	.5	SLE	1.9X		158	1
2001	JAN	28	2245	11.13	19	5.20	155	16.60	48.00	33	2	.09	1.0	1.6	LOI	1.9X		213	21
2001	JAN	29	1031	42.52	19	20.65	155	8.57	9.41	24	3	.06	.4	.7	SF4	1.5X		105	3
2001	JAN	29	2305	57.16	19	20.11	155	7.22	7.15	27	6	.08	.5	.7	SF4	1.6X		137	5
2001	JAN	29	2336	40.93	19	25.63	155	16.64	13.39	20	5	.11	1.1	.6	DEPL	1.5X		152	1
2001	JAN	30	0033	8.31	19	22.33	155	17.01	12.01	23	5	.10	.9	.5	INTL	1.5X		108	2
2001	JAN	30	0315	18.59	19	25.55	155	12.93	20.57	23	5	.14	1.3	1.0	DEPL	1.9X		168	3
2001	JAN	30	0448	43.47	19	15.55	155	2.06	43.61	40	9	.12	.9	.7	DEP	1.8X		218	11
2001	JAN	30	1237	15.43	19	26.74	155	29.04	12.47	32	9	.10	.4	1.0	KAO	1.6X		47	8
2001	JAN	30	1915	44.18	19	29.00	155	26.62	8.13	3710		.13	.4	1.1	KAO	1.6X		62	6
2001	JAN	30	2215	44.18	19	16.04	155	25.42	37.59	32	4	.11	.6	1.4	DLS	1.4X		77	4
2001	JAN	31	0942	34.20	19	19.99	155	8.08	6.85	4714		.13	.4	.6	SF4	2.0X		118	5
2001	JAN	31	1121	54.63	19	10.71	155	31.44	8.59	21	3	.19	.8	1.7	LSW	1.4X		142	8
2001	JAN	31	1123	41.14	19	11.43	155	32.74	7.36	23	3	.12	.5	1.7	LSW	1.6X		134	8
2001	JAN	31	1511	15.73	19	19.53	155	14.86	5.99	28	7	.09	.3	.8	SF1	1.0X		88	5
2001	JAN	31	1606	27.64	19	23.89	155	13.14	14.28	15	1	.10	.8	.5	DEPL	1.8X		136	2
2001	JAN	31	1836	15.66	19	11.94	155	41.77	7.41	24	5	.18	.6	1.9	LSW	1.7X		91	9
2001	JAN	31	1941	42.68	19	25.15	155	16.42	14.16	28	7	.13	.8	.5	DEPL	1.7X		140	1
2001	JAN	31	2107	43.85	19	25.51	155	16.67	11.42	25	6	.12	.9	.6	INTL	1.7X		142	1
2001	JAN	31	2301	35.83	19	24.98	155	16.74	11.00	24	5	.09	.5	.4	INTL	1.5X		137	0
2001	JAN	31	2327	55.55	19	25.57	155	17.78	12.03	20	4	.15	.8	.7	INTL	1.7X		140	0
2001	FEB	1	0232	7.99	19	27.99	155	13.74	1.55	23	6	.13	.5	.8	GLNL	1.5X		208	8
2001	FEB	1	0333	47.43	19	23.93	155	16.64	11.29	23	4	.11	.6	.5	INTL	1.7X		106	0
2001	FEB	1	0602	58.17	19	27.33	155	16.60	6.71	14	2	.08	.6	1.6	INTL	1.6X		169	6
2001	FEB	1	0646	12.74	19	24.41	155	17.54	9.59	24	4	.10	.6	.5	INTL	1.5X		49	1
2001	FEB	1	0740	23.05	19	26.19	155	15.07	13.01	22	5	.10	.8	.6	DEPL	1.7X		163	4
2001	FEB	1	0824	22.69	19	19.14	155	10.00	10.28	28	6	.09	.5	.6	SF3	1.4X		106	5
2001	FEB	1	1221	35.40	19	24.08	155	29.66	11.35	22	3	.12	.5	1.3	KAO	1.5X		44	6
2001	FEB	1	1231	16.05	19	24.98	155	17.55	15.44	13	2	.11	.9	.6	DEPL	1.5X		140	6
2001	FEB	1	1300	27.15	19	31.70	155	44.08	8.80	19	4	.11	.8	1.8	KON	.9X		122	15
2001	FEB	1	1337	2.69	19	24.11	155	18.87	4.11	17	1	.09	.5	1.4	SSCL	1.5X		108	4
2001	FEB	1	1400	34.67	19	31.87	155	35.44	7.21	20	6	.10	.5	.9	MLO	1.4X		112	5
2001	FEB	1	1451	4.74	19	22.52	155	20.56	9.88	21	5	.15	.6	1.1	KAOL	1.7X		135	7
2001	FEB	1	1717	13.02	19	25.57	155	16.75	14.63	25	7	.09	.9	.5	DEPL	1.8X		150	1
2001	FEB	1	1743	53.47	19	20.52	155	6.86	8.89	29	6	.12	.4	.5	SF4	1.6X		140	5
2001	FEB	1	2042	41.49	19	21.16	155	29.94	7.79	24	4	.12	.3	1.3	KAO	1.3X		42	9
2001	FEB	1	2151	3.27	19	13.77	155	26.17	6.98	24	1	.11	.6	1.1	LSW	1.2X		183	4
2001	FEB	1	2220	2.98	19	24.46	155	17.13	2.16	17	6	.11	.8	.2	SSCL	1.5X		115	1
2001	FEB	2	1131	35.04	19	28.66	155	26.28	4.80	35	9	.12	.3	2.1	KAO	1.7X		78	6
2001	FEB	2	1704	16.44	19	26.62	155	54.14	17.30	22	4	.12	1.4	1.9	KON	1.3X		172	5
2001	FEB	2	1845	41.68	19	24.56	155	16.76	11.95	29	6	.13	.6	.6	INTL	1.6X		94	1
2001	FEB	2	1909	37.69	19	24.60	155	15.48	10.89	11	3	.15	1.7	.6	INTL	1.3X		139	2
2001	FEB	2	2034	34.75	19	23.52	155	16.94	14.16	8	1	.05	1.1	.6	DEPL	1.5X		104	3

ORIGIN TIME (HST)				LAT N	LON W	DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG MIN	DEG MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
ORIGIN TIME (HST)				LAT N	LON W	DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF				
2001	FEB	2	2334	10.27	19 18.55	155 13.40	5.48	23	3	.11	.4	1.0	SF2	1.3X	81	3
2001	FEB	3	0021	23.24	19 26.10	155 14.04	11.24	12	3	.19	1.5	.8	INTL	1.3X	179	6
2001	FEB	3	0149	27.25	19 22.79	155 17.79	11.97	12	3	.10	1.9	1.1	INTL	1.5X	125	3
2001	FEB	3	0226	50.17	19 31.17	155 29.39	4.29	33	7	.12	.3	1.0	MLO	1.8X	65	3
2001	FEB	3	0255	0.91	19 22.36	155 17.66	12.99	10	3	.14	1.4	1.3	INTL	1.6X	151	3
2001	FEB	3	0341	51.20	19 23.79	155 18.77	10.43	10	2	.11	1.1	1.9	INTL	1.5X	86	4
2001	FEB	3	0520	43.31	19 24.24	155 18.15	10.66	10	2	.06	.9	1.1	INTL	1.3X	84	2
2001	FEB	3	0541	58.53	19 25.36	155 18.73	8.55	21	5	.11	.9	1.0	INT	1.3X	108	2
2001	FEB	3	0709	51.56	19 24.09	155 17.24	9.14	14	3	.11	1.6	1.3	INTL	1.4X	157	2
2001	FEB	3	1306	18.80	19 22.10	155 18.45	10.66	7	2	.04	1.7	2.1	INTL	1.6X	136	4
2001	FEB	3	1434	15.86	19 24.18	155 17.93	7.11	12	3	.12	1.1	1.5	INTL	1.1X	169	5
2001	FEB	3	1540	23.87	19 24.91	155 16.95	8.47	20	5	.08	.8	.7	INTL	1.2X	140	0
2001	FEB	3	1639	29.01	19 23.78	155 18.52	8.92	19	3	.12	.7	1.0	INTL	1.5X	56	3
2001	FEB	3	2142	20.57	19 27.50	155 13.98	12.73	10	2	.08	1.9	.8	INTL	1.6X	233	7
2001	FEB	3	2239	26.95	19 20.11	155 10.47	7.80	28	4	.10	.4	.6	SF3	1.5X	84	4
2001	FEB	3	2256	34.68	19 25.16	155 17.06	12.05	8	2	.10	2.7	1.4	INTL	1.6X	175	1
2001	FEB	3	2300	13.48	19 20.04	155 10.33	8.34	3811		.11	.4	.4	SF3	1.9X	86	4
2001	FEB	4	0038	56.12	19 23.96	155 16.17	10.05	14	4	.12	1.7	.8	INTL	1.6X	209	1
2001	FEB	4	0229	29.75	19 57.67	155 36.53	11.67	28	4	.10	.7	.8	KOH	1.9X	148	26
2001	FEB	4	0544	1.49	19 22.04	155 16.89	12.37	9	3	.11	1.9	1.6	INTL	1.7X	135	2
2001	FEB	4	1543	52.01	19 23.86	155 16.30	10.03	11	3	.11	1.2	1.4	INTL	1.3X	99	1
2001	FEB	4	1652	29.30	19 27.21	154 52.89	6.48	35	7	.13	.9	.6	LER	1.9X	198	4
2001	FEB	4	1847	37.88	19 25.11	155 14.82	10.46	10	2	.12	1.7	.8	INTL	1.6X	205	5
2001	FEB	4	2008	37.23	19 23.92	155 19.47	7.32	10	2	.14	2.3	2.8	KAOL	1.6X	157	4
2001	FEB	5	0040	10.17	19 23.00	155 21.72	11.62	11	4	.15	2.3	3.2	KAOL	1.9X	179	8
2001	FEB	5	0350	13.94	19 22.85	155 18.72	12.49	10	3	.08	2.0	1.3	INTL	1.5X	149	4
2001	FEB	5	0417	4.84	19 24.68	155 18.97	9.33	8	3	.04	3.7	1.4	INTL	1.4X	194	3
2001	FEB	5	0941	49.98	19 22.77	155 19.59	6.87	9	2	.09	1.0	2.0	KAOL	1.4X	165	6
2001	FEB	5	1005	24.16	19 24.24	155 18.08	9.10	11	3	.09	1.7	1.9	INTL	1.4X	139	3
2001	FEB	5	1134	10.57	19 50.95	155 19.06	9.68	9	2	.05	.9	1.2	KEA	1.7X	148	5
2001	FEB	5	1738	57.13	19 20.46	155 18.33	17.64	31	7	.10	.6	.8	DEP	1.6X	61	5
2001	FEB	6	0149	39.64	19 27.08	155 54.34	17.58	18	5	.10	1.3	1.7	KON	1.1X	174	4
2001	FEB	6	0319	10.86	19 24.02	155 30.44	10.21	3911		.10	.3	1.1	KAO	1.5X	34	11
2001	FEB	6	0434	34.29	19 3.70	156 19.79	36.51	4112		.13	1.2	2.1	KON	2.8X	288	53
2001	FEB	6	1602	38.22	19 23.73	155 19.47	5.83	10	4	.14	.9	2.6	KAOL	1.2X	158	5
2001	FEB	6	1657	15.78	19 51.24	155 41.06	12.83	10	3	.11	1.2	.7	KEA	1.2X	214	3
2001	FEB	6	1858	43.62	19 26.29	155 14.89	12.40	10	2	.12	1.3	.9	INTL	1.3X	166	5
2001	FEB	6	2341	28.50	19 24.84	155 16.77	9.65	13	4	.15	1.6	.9	INTL	1.6X	143	0
2001	FEB	7	0033	17.73	19 27.44	155 14.48	31.61	5517		.12	.4	.6	DEPF	2.8X	51	4
2001	FEB	7	0053	23.61	19 23.26	155 16.70	9.67	11	2	.07	.9	.8	INTL	1.5X	81	1
2001	FEB	7	0255	47.90	19 19.68	155 36.97	13.05	4612		.11	.3	.4	DML	2.6X	55	6
2001	FEB	7	0659	25.49	19 14.37	155 26.64	8.27	39	7	.15	.4	.8	LSW	1.8X	104	5
2001	FEB	7	1817	7.72	19 23.73	155 16.00	7.99	9	3	.07	1.1	.9	INTL	1.1X	116	1
2001	FEB	7	1926	41.23	19 19.51	155 13.44	8.15	34	6	.13	.5	.7	SF2	1.7X	131	6
2001	FEB	7	2346	49.73	19 12.01	155 20.35	50.63	38	6	.12	.8	1.0	DEP	1.8X	170	8

ORIGIN TIME (HST)				LAT N	LON W	DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG MIN	DEG MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
ORIGIN TIME (HST)				LAT N	LON W	DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF				
2001	FEB	8	0156	50.36	19 25.22	155 24.32	8.39	16	4	.12	.5	1.8	KAO	1.2X	91	9
2001	FEB	8	0505	43.57	19 32.68	156 5.80	44.20	39	6	.12	1.1	.9	KON	2.1X	208	20
2001	FEB	8	0527	40.61	19 25.89	155 15.34	13.12	22	7	.08	1.0	.5	DEPL	1.7X	160	3
2001	FEB	8	1209	21.61	19 20.37	155 8.33	7.45	21	5	.06	.4	.6	SF4	1.8X	111	4
2001	FEB	8	1730	20.06	20 9.51	156 49.61	0.04	19	3	.12	4.1	.8	DIS #	2.3X	261	75
2001	FEB	8	1744	25.65	20 11.50	157 2.86	44.55	28	2	.18	2.3	4.9	DIS	2.9X	276	91
2001	FEB	9	0208	0.79	19 18.05	155 30.20	8.08	27	6	.13	.4	1.1	LSW	1.4X	87	5
2001	FEB	9	0645	50.70	19 13.84	155 21.73	6.97	15	4	.12	.8	.8	SWR	1.2X	212	4
2001	FEB	9	1057	5.62	19 20.15	155 11.72	7.59	15	3	.06	.5	1.0	SF3	1.4X	80	5
2001	FEB	9	1210	30.61	19 27.09	155 28.94	11.98	23	5	.13	.5	1.3	KAO	1.3X	60	8
2001	FEB	9	1923	42.52	19 19.68	155 12.93	9.54	41	8	.13	.4	.5	SF2	2.7X	116	5
2001	FEB	9	1924	7.94	19 18.47	155 13.09	6.37	23	7	.12	.4	.9	SF2	2.2X	92	3
2001	FEB	9	2248	47.61	19 21.28	155 4.78	7.54	15	4	.09	.6	.8	SF5	1.5X	162	6
2001	FEB	10	0738	30.05	19 22.97	155 15.02	3.17	12	3	.08	.4	.3	SEC	1.6X	126	2
2001	FEB	10	1031	25.80	19 24.79	155 18.06	9.05	10	3	.15	1.4	1.8	INTL	1.1X	132	3
2001	FEB	10	1250	17.35	19 54.72	155 12.90	13.42	32	6	.15	1.4	.6	KEA	1.8X	206	14
2001	FEB	10	1350	55.09	19 17.26	154 58.41	40.92	28	7	.10	1.4	.8	LER	1.6X	254	15
2001	FEB	10	1532	42.85	19 27.00	155 17.16	5.27	8	3	.10	1.8	2.0	INTL	1.5X	295	3
2001	FEB	10	1613	22.42	19 18.06	154 58.96	41.31	21	6	.11	2.0	1.0	LER	1.4X	276	15
2001	FEB	10	1951	15.04	19 8.70	155 27.20	30.53	41	7	.10	.6	1.1	DLS	1.8X	168	2
2001	FEB	10	2333	27.53	19 29.28	154 54.14	0.02	15	4	.15	.4	.6	SLE #	1.5X	106	4
2001	FEB	10	2359	29.32	19 45.03	156 1.27	6.26	21	4	.12	1.0	1.0	HUA	1.8X	228	20
2001	FEB	11	0019	22.26	19 20.53	155 10.45	8.16	37	8	.12	.4	.4	SF3	1.8X	77	3
2001	FEB	11	0359	33.94	19 18.05	155 23.07	5.54	17	4	.14	.7	3.7	SWR	1.8X	98	7
2001	FEB	11	0610	55.96	19 26.93	155 15.27	16.87	8	2	.11	3.7	1.3	DEPL	1.7X	257	5
2001	FEB	11	0654	58.48	19 21.24	155 18.05	3.57	13	5	.07	.4	.9	SWR	1.3X	140	4
2001	FEB	11	0711	19.57	19 23.66	155 19.02	9.79	9	2	.13	3.6	2.0	INTL	1.5X	203	4
2001	FEB	11	1017	38.31	19 20.23	155 11.69	7.20	17	4	.07	.5	1.0	SF3	1.3X	79	5
2001	FEB	11	1141	58.94	19 23.95	155 16.50	11.68	12	4	.12	2.0	1.1	INTL	1.6X	138	0
2001	FEB	11	1203	32.97	19 27.72	155 14.34	7.75	7	1	.13	3.0	4.4	INTL	1.5X	238	8
2001	FEB	11	1501	4.28	19 19.83	155 7.66	7.78	40	9	.10	.4	.5	SF4	1.5X	124	5
2001	FEB	11	1910	59.09	19 25.69	155 15.79	12.73	12	3	.06	1.8	1.1	INTL	1.6X	156	3
2001	FEB	11	1936	37.44	19 23.45	155 17.63	10.84	11	4	.08	2.6	1.0	INTL	1.5X	198	1
2001	FEB	12	0204	1.85	19 26.40	155 17.19	10.76	24	4	.13	.8	.7	INTL	1.6X	124	2
2001	FEB	12	0337	0.60	19 22.73	155 19.67	5.76	26	6	.13	.4	1.6	KAOL	1.4X	73	6
2001	FEB	12	0454	25.85	19 20.23	155 11.21	6.59	18	4	.09	.5	.9	SF3	1.4X	82	4
2001	FEB	12	0516	9.31	19 23.41	155 18.38	11.08	11	3	.13	4.2	1.6	INTL	1.5X	202	3
2001	FEB	12	0714	57.89	19 12.75	155 29.24	7.74	31	6	.13	.4	.6	LSW	1.6X	121	5
2001	FEB	12	0731	41.02	19 24.88	155 19.50	14.86	18	4	.11	1.1	.7	DMLL	1.7X	109	3
2001	FEB	12	1012	41.22	19 24.24	155 17.27	11.06	19	2	.09	.6	.8	INTL	1.5X	86	4
2001	FEB	12	1329	14.18	19 25.35	155 18.24	9.98	25	4	.11	.7	.5	INTL	1.6X	127	1
2001	FEB	12	1804	26.18	19 17.79	155 23.86	10.47	30	5	.14	.4	.9	SWR	1.2X	89	6
2001	FEB	12	1939	49.07	19 23.15	155 16.94	3.30	39	9	.12	.3	.3	SSC	2.0X	47	2
2001	FEB	12	2119	24.47	19 17.30	155 15.53	7.23	26	2	.15	.6	.9	SF1	1.1X	152	4
2001	FEB	13	0018	23.21	19 18.92	155 13.91	5.73	21		.08	.6	1.2	SF2	1.1X	140	7

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	FEB	13	0441	51.80	19	1.70	155	19.78	35.43	32	3	.08	1.1	1.7	LOI	1.6X		216	20
2001	FEB	13	0647	4.80	19	22.35	155	27.87	6.31	30	6	.10	.3	.9	KAO	1.4X		58	1
2001	FEB	13	1818	3.90	19	24.02	155	17.58	12.18	22	5	.14	.8	.5	INTL	1.7X		99	2
2001	FEB	13	1832	48.89	19	29.03	155	27.48	9.07	21	6	.12	.4	1.1	KAO	1.6X		81	5
2001	FEB	13	1925	25.87	19	30.57	155	50.18	12.52	21	7	.12	.5	.6	KON	1.4X		105	9
2001	FEB	14	0024	1.37	19	22.35	155	22.79	8.67	18	6	.11	.8	1.3	KAOL	1.9X		159	11
2001	FEB	14	0226	57.14	19	17.44	156	28.57	38.43	22	6	.12	2.2	3.2	DIS	2.4U		252	63
2001	FEB	14	0426	30.31	19	22.48	155	19.89	7.51	22	7	.08	.7	1.1	KAOL	1.3X		123	5
2001	FEB	14	1221	40.25	19	24.56	155	17.45	9.78	20	5	.12	1.3	.9	INTL	1.4X		82	1
2001	FEB	14	2034	50.48	19	20.68	155	13.10	7.42	26	4	.10	.4	.6	SF2	1.3X		63	4
2001	FEB	15	0635	14.54	19	50.94	155	51.02	37.57	25	4	.11	.8	1.3	HUA	1.9X		140	18
2001	FEB	15	0849	12.89	19	19.46	155	8.74	8.05	34	8	.10	.3	.4	SF4	1.8X		101	4
2001	FEB	15	0906	13.83	19	29.88	155	53.36	11.97	19	8	.12	.6	.7	KON	1.6X		123	3
2001	FEB	15	1633	47.30	19	25.87	155	15.33	18.92	5		.02	3.6	6.7	DEPL	2.1X		208	6
2001	FEB	15	1805	21.18	19	2.77	155	21.68	37.82	3910		.10	.9	.9	LOI	1.8X		213	16
2001	FEB	15	2028	24.70	19	19.89	155	7.37	7.57	3610		.11	.4	.6	SF4	1.7X		136	5
2001	FEB	15	2028	50.26	19	19.98	155	7.59	7.06	4513		.11	.4	.5	SF4	2.3X		130	5
2001	FEB	15	2153	55.69	19	30.13	155	24.54	23.71	5111		.11	.4	.7	DML	3.2X		51	2
2001	FEB	16	0011	31.43	19	27.93	155	16.41	7.08	9	3	.10	3.3	2.3	INT	1.3X		229	5
2001	FEB	16	0323	32.68	20	0.21	155	35.67	44.94	19	4	.10	1.4	1.3	KOH	2.2X		169	24
2001	FEB	16	0649	50.17	19	26.50	155	17.97	7.00	12	3	.08	2.0	1.0	INTL	1.5X		196	2
2001	FEB	16	0716	46.92	19	27.06	155	17.81	5.30	12	3	.10	2.3	1.4	INT	1.3X		207	3
2001	FEB	16	1633	25.52	19	24.17	155	16.83	10.58	12	3	.12	2.0	1.3	INTL	1.5X		125	1
2001	FEB	16	1743	55.49	19	29.67	155	24.82	24.19	50	9	.11	.4	.7	DMLF	3.3X		51	3
2001	FEB	16	1834	19.05	19	24.00	155	1.31	5.29	13	1	.10	.9	1.1	SF5	1.7X		199	5
2001	FEB	16	2024	4.39	19	21.19	155	30.10	6.94	18	4	.12	.4	2.3	KAO	1.3X		85	8
2001	FEB	16	2328	15.53	19	24.26	155	19.83	8.71	9	3	.08	2.8	2.0	KAOL	1.5X		214	4
2001	FEB	17	0128	25.66	19	19.34	156	13.35	35.10	33	5	.10	1.3	1.3	KON	2.1X		236	37
2001	FEB	17	0320	29.96	19	21.17	155	11.04	8.02	30	6	.12	.5	.6	SF3	1.8X		78	3
2001	FEB	17	0558	39.27	19	19.47	155	11.56	7.52	4314		.16	.4	.6	SF3	2.0X		96	6
2001	FEB	17	0814	50.12	19	25.40	155	19.01	5.96	21	5	.12	.9	1.3	INT	1.7X		83	2
2001	FEB	17	0948	2.69	19	40.82	155	43.51	14.75	12	3	.10	1.2	.6	HUA	1.4X		194	12
2001	FEB	17	1043	24.36	19	21.67	155	30.15	5.44	28	4	.10	.4	1.7	KAO	1.6X		76	5
2001	FEB	17	1119	41.13	19	25.14	155	20.10	1.50	16	5	.11	.4	.8	KAO	1.4X		146	4
2001	FEB	17	1127	5.24	19	25.46	155	18.96	5.83	22	6	.09	.6	1.1	INT	2.0X		133	2
2001	FEB	17	1241	39.60	19	25.35	155	19.33	5.08	13	4	.07	1.4	1.4	KAO	1.3X		137	3
2001	FEB	17	1419	13.28	19	25.03	155	20.23	0.68	12	3	.12	.4	.9	KAO	1.3X		164	5
2001	FEB	17	1425	3.20	19	24.84	155	24.60	10.36	32	8	.10	.3	.8	KAO	1.5X		38	9
2001	FEB	17	1651	22.10	18	59.39	155	29.84	38.45	25	6	.08	1.4	1.0	DLS	1.8X		234	18
2001	FEB	17	1801	10.31	19	25.31	155	19.89	2.55	16	4	.14	.5	.7	KAO	1.4X		143	4
2001	FEB	17	2008	26.37	19	25.75	155	19.08	5.24	16	6	.09	1.1	.6	KAO	1.5X		142	3
2001	FEB	17	2139	9.83	19	25.69	155	19.16	4.34	15	3	.09	.5	.8	KAO	1.5X		137	3
2001	FEB	17	2205	4.21	19	27.10	155	18.66	3.92	13	4	.18	2.8	1.0	SNC	1.2X		167	4
2001	FEB	18	0001	54.88	19	14.71	155	27.56	4.58	29	2	.16	.5	2.1	LSW	1.3X		88	6
2001	FEB	18	0036	48.80	19	25.99	155	18.64	6.04	34	7	.14	.5	.6	INT	1.7X		52	2

ORIGIN TIME (HST)				LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	FEB	18	0042	42.22	19	25.62	155	18.91	5.15	31	6	.11	.4	.6	INT	1.5X		98	2
2001	FEB	18	0148	47.81	19	25.86	155	18.65	6.15	34	8	.10	.4	.6	INT	2.0X		48	2
2001	FEB	18	0606	56.07	19	29.41	154	53.39	0.03	28	1	.13	.4	1.0	SLEF#	1.9X		108	5
2001	FEB	18	0636	42.40	19	22.81	155	30.40	15.10	19	4	.08	.5	.9	DML	1.2X		50	6
2001	FEB	18	1230	46.92	19	25.52	155	19.11	5.15	31	8	.10	.4	.9	KAO	1.8X		50	3
2001	FEB	18	1324	48.50	19	24.12	155	18.21	16.08	23	3	.15	.9	.6	DEPL	1.7X		79	3
2001	FEB	18	1655	58.23	19	25.39	155	16.71	13.89	3311		.12	.6	.4	DEPL	1.9X		87	1
2001	FEB	18	1723	46.41	19	25.57	155	17.15	10.14	21	2	.13	.6	.8	INTL	1.6X		141	1
2001	FEB	18	1725	10.59	19	11.58	155	28.22	33.35	42	9	.07	.6	1.0	DLS	2.0X		97	4
2001	FEB	18	1729	30.11	19	24.17	155	17.84	8.80	17	3	.13	.8	1.1	INTL	1.4X		76	2
2001	FEB	18	1749	15.70	19	25.90	155	15.15	13.44	15	2	.12	1.4	1.1	DEPL	1.6X		198	3
2001	FEB	18	2010	49.10	19	9.59	155	36.51	7.61	20	5	.13	.6	1.4	LSW	1.5X		129	15
2001	FEB	18	2135	38.51	19	42.73	156	10.34	40.73	29	9	.11	1.3	1.8	HUA	2.3X		312	36
2001	FEB	18	2326	10.64	19	25.28	155	17.00	10.84	16	4	.08	.9	.9	INTL	1.3X		149	1
2001	FEB	19	0135	11.96	19	19.00	155	46.91	10.68	29	3	.12	.4	.6	KON	1.5X		84	11
2001	FEB	19	0200	30.59	19	16.04	155	7.01	43.76	43	8	.12	.9	1.0	DEP	3.2X		190	3
2001	FEB	19	0205	6.27	19	26.18	155	18.45	6.00	25	5	.11	.6	.8	INT	1.7X		75	2
2001	FEB	19	0433	19.03	18	50.21	155	6.40	55.66	33	4	.11	1.6	2.5	LOI	2.3X		265	50
2001	FEB	19	0509	52.06	19	21.35	155	19.60	29.89	41	9	.13	.6	.9	DEP	2.1X		47	6
2001	FEB	19	0955	46.62	19	25.52	155	14.37	14.34	17	6	.14	1.6	.5	DEPL	2.0X		209	5
2001	FEB	19	1020	38.63	19	19.99	155	16.94	33.73	29	6	.10	.8	1.4	DEP	1.6X		87	1
2001	FEB	19	1331	28.56	19	25.70	155	18.53	16.87	12	3	.09	1.5	1.1	DEPL	1.9X		151	2
2001	FEB	19	1340	59.95	19	24.12	155	17.70	9.82	12	3	.13	1.5	1.1	INTL	1.6X		135	2
2001	FEB	19	1426	46.01	19	24.88	155	17.91	11.93	10	2	.14	1.4	1.3	INTL	1.6X		136	3
2001	FEB	19	1604	39.33	19	21.77	155	26.74	14.27	26	7	.11	.4	1.0	DML	1.5X		46	12
2001	FEB	19	2138	16.63	19	25.17	155	17.17	10.17	10	2	.10	3.4	1.1	INT	1.6X		151	1
2001	FEB	19	2205	1.32	19	25.21	155	16.95	12.25	10	2	.08	1.2	1.0	INTL	1.4X		153	1
2001	FEB	19	2341	50.53	19	23.14	155	21.73	7.00	10	4	.10	5.0	11.1	KAOL-	1.3X		231	8
2001	FEB	20	0241	56.50	19	47.96	155	34.38	14.20	11	3	.11	1.6	.9	KEA	1.3X		241	12
2001	FEB	20	1317	53.36	19	23.57	155	14.99	3.42	4610		.11	.3	.3	SECF	3.8U		82	2
2001	FEB	20	1321	8.36	19	27.05	155	29.76	13.37	19	4	.11	.6	.4	DML	1.8X		135	7
2001	FEB	20	1329	57.74	19	23.16	155	14.81	2.99	13	5	.06	.3	.5	SEC	1.5X		107	2
2001	FEB	20	1343	26.14	19	16.32	155	27.05	13.71	15	3	.15	1.4	2.2	DLS	1.0X		123	6
2001	FEB	20	1537	37.10	19	19.68	155	10.83	8.10	33	7	.11	.5	.7	SF3	1.8X		117	5
2001	FEB	20	1737	43.98	18	51.86	154	50.97	7.22	17	3	.18	3.0	3.2	DIS	1.6X		323	56
2001	FEB	20	1755	1.41	19	31.03	155	43.70	10.35	22	6	.13	.6	.9	KON	1.6X		101	14
2001	FEB	20	2223	59.40	19	20.12	155	10.67	9.12	37	7	.09	.3	.5	SF3	1.7X		84	4
2001	FEB	20	2336	24.39	19	25.53	155	19.21	5.03	14	3	.08	.8	1.0	KAO	1.3X		136	3
2001	FEB	21	0055	50.11	19	26.12	155	18.74	5.54	25	6	.10	.5	.7	INT	1.8X		118	2
2001	FEB	21	1224	14.56	19	25.48	155	17.77	8.51	11	3	.06	1.2	.8	INTL	1.6X		153	0
2001	FEB	21	1238	33.29	19	11.62	155	28.31	33.98	4511		.08	.5	.8	DLS	2.3X		95	4
2001	FEB	23	0011	10.27	19	26.19	155	16.47	12.83	28	8	.11	.7	.5	INTL	1.5X		124	2
2001	FEB	23	0648	18.47	19	10.19	155	27.62	37.72	23	2	.14	1.2	2.1	DLST	2.0X		132	1
2001	FEB	23	0700	27.57	19	54.86	155	22.93	10.44	19	5	.13	1.1	.4	KEA	2.0X		239	5
2001	FEB	23	0713	24.91	19	54.84	155	23.59	10.54	32	4	.12	.8	.4	KEA	2.2X		234	6

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	FEB	23	0714	30.83	19	54.39	155	23.06	9.06	30	6	.15	.9	.4	KEA	1.8X		229	5
2001	FEB	23	0716	43.68	19	54.48	155	23.41	8.68	27	7	.19	.9	.5	KEA	1.7X		229	5
2001	FEB	23	0718	50.53	19	55.53	155	22.98	2.92	33	8	.10	.6	1.0	KEA	1.9X		184	18
2001	FEB	23	0721	40.49	19	55.02	155	23.77	9.72	4212		.12	.6	.4	KEA	2.2X		166	6
2001	FEB	23	0733	13.10	19	54.32	155	22.90	9.64	20	4	.14	.9	.4	KEA	1.5X		229	4
2001	FEB	23	0734	42.54	19	54.90	155	23.65	9.71	3510		.11	.5	.3	KEA	2.0X		176	6
2001	FEB	23	0745	36.06	19	54.34	155	23.12	9.34	35	9	.16	.8	.3	KEA	2.0X		227	5
2001	FEB	23	0754	44.69	19	24.97	155	20.30	1.66	13	4	.07	.4	.9	KAO	1.3X		149	5
2001	FEB	23	1433	1.50	19	24.63	155	17.54	5.48	23	8	.14	.4	.5	INTL	1.2X		66	1
2001	FEB	23	1511	42.15	19	18.36	155	12.60	7.80	35	9	.13	.4	.8	SF2	1.4X		148	8
2001	FEB	23	1607	13.94	18	57.99	155	14.54	38.72	38	9	.09	.8	1.3	LOI	2.0X		245	34
2001	FEB	23	1731	21.59	19	18.33	155	12.67	8.72	35	8	.12	.5	.6	SF2	1.5X		148	8
2001	FEB	23	1747	5.40	19	54.37	155	22.73	10.90	13	2	.10	1.7	.5	KEA	1.3X		264	4
2001	FEB	24	0208	20.40	19	26.08	155	18.18	6.61	25	6	.10	.6	.6	INT	1.5X		150	2
2001	FEB	24	0309	56.48	19	53.76	155	24.37	5.98	23	6	.19	.9	1.4	KEA	1.6X		211	7
2001	FEB	24	0324	13.07	19	54.11	155	23.21	8.55	27	7	.14	.8	.5	KEA	1.7X		222	5
2001	FEB	24	0332	3.66	19	55.83	155	22.89	10.49	18	5	.12	1.0	.4	KEA	1.2X		243	6
2001	FEB	24	0345	29.09	19	53.86	155	22.83	9.02	21	2	.13	1.0	.4	KEA	1.5X		217	4
2001	FEB	24	0351	16.03	19	56.46	155	24.15	8.28	28	8	.21	.8	.8	KEA	1.9X		185	8
2001	FEB	24	0546	7.78	20	7.90	155	47.18	24.15	25	4	.09	.8	1.2	KOH	1.8X		158	1
2001	FEB	24	1631	14.33	19	26.16	155	17.01	13.31	34	8	.13	.6	.4	DEPL	1.8X		93	2
2001	FEB	24	1719	36.31	19	9.79	155	36.21	0.93	25	4	.14	.5	.6	LSW	1.5X		124	14
2001	FEB	24	1911	31.75	19	24.06	155	19.11	10.61	25	4	.10	.5	.8	KAOL	1.7X		69	4
2001	FEB	25	0007	14.26	19	28.99	155	26.46	10.59	3211		.13	.3	.7	KAO	1.5X		48	6
2001	FEB	25	0130	46.43	19	28.30	155	15.32	6.62	24	6	.10	.5	1.4	GLNL	1.5X		121	7
2001	FEB	25	0604	16.90	19	19.38	155	12.36	6.26	4112		.14	.3	.6	SF2	1.7X		90	5
2001	FEB	25	0919	59.99	19	25.58	155	16.26	11.72	35	7	.10	.4	.3	INTL	1.6X		52	2
2001	FEB	25	1240	12.01	19	27.37	155	24.25	7.95	3311		.12	.3	.9	KAO	1.5X		35	5
2001	FEB	25	1335	58.43	19	11.51	155	27.97	8.03	3913		.14	.3	.7	LSW	1.5X		105	4
2001	FEB	25	1413	36.46	19	24.61	155	17.61	9.61	6	1	.01	3.7	1.7	INTL	1.3X		187	5
2001	FEB	25	1512	5.47	19	31.53	155	15.18	25.86	4414		.13	.5	.8	DEP	1.7X		63	7
2001	FEB	25	1732	27.88	19	19.17	155	10.31	7.86	26	8	.09	.5	.8	SF3	1.4X		133	5
2001	FEB	25	2047	50.61	19	24.54	155	17.71	11.35	26	5	.11	.6	.5	INTL	1.5X		55	1
2001	FEB	25	2201	0.43	19	24.74	155	17.07	7.28	25	9	.09	.5	.5	INTL	1.4X		68	0
2001	FEB	26	0306	9.26	19	52.19	155	32.22	32.56	4311		.10	.6	1.1	KEA	2.2X		124	13
2001	FEB	26	0814	33.23	19	17.98	154	58.81	41.77	4711		.10	.8	.8	LER	2.8X		208	13
2001	FEB	26	1012	16.01	19	46.79	155	33.93	15.54	15	4	.09	.8	.6	KEA	1.4X		171	11
2001	FEB	26	1502	52.12	19	24.46	155	16.90	8.78	26	6	.10	.5	.3	INTL	1.5X		76	1
2001	FEB	27	0849	1.09	19	19.86	155	6.75	8.62	3711		.10	.4	.4	SF4	1.4X		143	5
2001	FEB	27	0923	23.98	19	23.80	155	16.66	3.07	10	3	.04	.6	.4	SSC	1.3X		133	0
2001	FEB	27	1845	43.50	19	25.03	155	17.49	7.64	26	5	.11	.6	.5	INTL	1.6X		46	1
2001	FEB	28	0032	8.83	20	1.51	155	34.34	2.54	29	9	.17	.6	.6	KOH	1.7X		168	24
2001	FEB	28	0416	35.21	19	24.81	155	15.86	12.78	32	7	.12	.6	.4	INTL	1.9X		96	2
2001	FEB	28	0642	56.01	19	25.76	155	16.15	10.26	23	6	.12	.7	.5	INTL	1.6X		104	2
2001	FEB	28	0657	23.11	19	23.52	155	18.97	9.09	20	5	.11	.6	.9	INTL	1.4X		121	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	FEB	28	0727	9.38	19	21.00	155	29.76	10.42	3912		.13	.3	.8	KAO	1.6X		44	5
2001	FEB	28	0731	2.64	19	21.10	155	29.87	9.02	4311		.08	.3	.7	KAO	2.0X		43	5
2001	FEB	28	1333	29.95	19	46.51	155	48.56	12.29	4312		.11	.4	.3	HUA	2.1X		134	10
2001	MAR	1	0152	49.52	19	24.92	155	30.11	10.96	3215		.10	.3	1.0	KAO	1.3X		43	10
2001	MAR	1	0253	47.26	19	24.79	155	30.10	11.80	3013		.15	.3	1.0	KAO	1.4X		44	5
2001	MAR	1	0625	53.25	19	24.36	155	18.29	8.07	19	7	.13	1.0	.6	INTL	1.5X		143	2
2001	MAR	1	0732	47.63	19	25.61	155	18.19	13.69	4217		.12	.3	.4	DEP	1.3X		95	1
2001	MAR	1	1826	3.80	19	14.13	155	33.13	5.72	5119		.19	.3	1.1	LSW	1.9X		71	6
2001	MAR	1	1949	48.17	19	20.37	155	7.34	8.11	3912		.13	.5	.6	SF4	1.8X		132	5
2001	MAR	2	0035	4.70	19	25.87	155	17.58	9.86	20	7	.10	.9	.6	INTL	1.6X		157	1
2001	MAR	2	0212	51.43	19	28.57	154	53.95	2.79	32	7	.12	.4	.4	SLE	1.7X		116	3
2001	MAR	2	0806	1.07	19	20.40	155	8.93	7.78	3111		.10	.3	.6	SF4	1.2X		100	3
2001	MAR	2	1132	22.35	19	44.00	156	29.19	40.48	4011		.14	1.2	1.9	DIS	2.4X		232	66
2001	MAR	2	1540	28.17	19	18.80	155	13.45	6.48	4017		.13	.4	.8	SF2	1.3X		142	7
2001	MAR	2	1718	51.33	19	20.11	155	8.06	7.49	5223		.12	.4	.5	SF4	1.6X		112	5
2001	MAR	2	1758	48.90	19	5.61	155	29.50	29.00	4811		.09	.6	.9	DLS	2.6X		176	8
2001	MAR	2	1837	37.28	19	21.11	154	54.97	39.21	5324		.11	.7	.6	LER	1.9X		214	10
2001	MAR	2	2045	6.69	19	22.97	155	18.30	9.01	2310		.19	.7	1.3	INTL	1.5X		141	3
2001	MAR	2	2244	41.75	19	18.83	155	13.17	6.66	35	7	.14	.5	.8	SF2	1.4X		83	3
2001	MAR	3	0515	44.53	20	56.59	155	37.50	1.03	17	6	.08	3.5	1.1	DIS	2.3X		271	75
2001	MAR	3	0549	1.59	19	12.09	155	22.04	10.26	29	3	.15	.8	.6	SWR	1.5X		186	5
2001	MAR	3	1025	59.54	19	20.93	155	6.87	6.81	3816		.08	.3	.6	SF4	1.1X		131	5
2001	MAR	3	2132	47.24	20	14.94	156	38.01	8.25	37	7	.14	.8	.8	DIS	2.4X		242	54
2001	MAR	3	2311	29.24	19	26.91	155	12.91	5.53	12	1	.12	1.6	4.1	GLNL	1.2X		247	8
2001	MAR	4	0229	7.66	19	21.16	155	6.66	7.87	4011		.09	.4	.4	SF4	2.2X		132	4
2001	MAR	4	0622	5.53	19	19.20	155	12.75	7.46	5019		.15	.3	.5	SF2	2.4X		86	4
2001	MAR	4	0741	16.28	19	19.26	155	12.69	7.70	39	8	.14	.5	.7	SF2	1.7X		87	4
2001	MAR	4	0742	7.04	19	10.40	155	40.50	0.90	34	7	.16	.6	.4	LSWF	2.2X		164	10
2001	MAR	5	0726	54.32	19	12.27	155	36.59	7.05	40	9	.16	.4	1.3	LSW	1.8X		86	12
2001	MAR	5	1304	22.31	19	12.63	155	30.86	36.32	6527		.10	.4	.6	DLS	2.7X		76	5
2001	MAR	5	1948	9.65	19	20.72	155	11.18	8.32	30	4	.09	.4	.5	SF3	1.7X		76	3
2001	MAR	5	2020	18.94	19	11.92	155	20.11	9.30	2913		.14	.6	.9	SWR	1.1X		225	8
2001	MAR	5	2154	54.99	19	26.85	155	28.88	9.98	3812		.12	.3	.8	KAO	1.6X		45	8
2001	MAR	6	0326	47.98	19	24.75	155	38.37	2.96	4620		.12	.3	.3	MLO	2.0X		65	1
2001	MAR	6	1840	55.62	19	19.18	155	13.05	7.67	5120		.14	.3	.5	SF2	1.9X		81	4
2001	MAR	6	2216	53.35	19	23.91	155	15.61	2.86	3512		.10	.2	.2	SECF	1.9X		80	2
2001	MAR	7	0518	17.12	19	20.01	155	9.78	7.51	17	5	.08	.5	.7	SF3	1.3X		95	4
2001	MAR	7	0735	46.33	19	23.12	155	29.48	10.50	6526		.11	.2	.3	KAO	2.7X		33	3
2001	MAR	7	0833	26.13	19	18.75	155	13.07	8.21	3617		.11	.3	.5	SF2	1.1X		87	3
2001	MAR	7	0954	28.23	19	25.32	155	29.87	11.59	2912		.09	.3	1.0	KAO	1.1X		42	10
2001	MAR	7	1406	42.20	19	19.21	155	9.67	6.87	3815		.10	.4	.7	SF3	1.4X		124	5
2001	MAR	7	2336	43.34	19	56.30	155	31.23	17.61	23	9	.14	1.0	2.6	KEA	1.3X		235	19
2001	MAR	8	0334	30.06	18	58.77	155	28.92	41.49	3115		.08	.7	.8	DLS	1.7X		245	19
2001	MAR	8	0417	56.43	21	41.42	157	4.65	5.09	24	7	.10	5.9	4.5	DIS	2.7X		249	105
2001	MAR	8	0720	31.43	19	48.08	156	9.05	0.00	2812		.16	1.1	.3	HUA #	1.8X		197	66

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	MAR	8	0736	28.77	19	56.00	155	30.72	20.41	2410		.12	.9	1.9	KEA	1.3X		233	18
2001	MAR	8	0754	9.00	19	55.73	155	30.83	19.33	2311		.12	.8	1.7	KEA	1.1X		231	17
2001	MAR	8	0831	55.62	19	14.72	155	27.97	3.62	36	5	.13	.4	1.6	LSW	1.9X		83	7
2001	MAR	8	1216	4.33	19	23.54	155	27.41	9.76	2710		.13	.4	1.0	KAO	1.1X		68	2
2001	MAR	8	2104	4.10	19	40.20	155	15.08	47.54	5121		.11	.5	.8	KEA	1.6X		102	24
2001	MAR	9	0231	34.43	19	23.07	154	58.64	8.53	4017		.13	.7	.3	LER	1.4X		202	4
2001	MAR	9	0526	8.78	19	22.47	155	14.33	3.35	21	9	.06	.3	.3	SEC	1.6X		125	2
2001	MAR	9	0539	21.99	18	57.70	155	9.43	39.40	6127		.11	.6	1.2	LOI	1.8X		243	36
2001	MAR	9	0823	34.38	19	19.29	155	10.45	8.96	4318		.09	.3	.5	SF3	1.3X		103	5
2001	MAR	9	0840	59.40	19	19.59	155	10.93	6.29	5121		.11	.3	.5	SF3	1.8X		96	5
2001	MAR	9	1121	42.57	19	19.26	155	30.42	2.64	36	5	.11	.3	1.0	KAO	1.5X		47	8
2001	MAR	10	0800	5.99	19	16.92	155	13.25	5.48	2610		.08	.4	.7	SF2	1.2X		171	0
2001	MAR	10	1515	42.04	19	8.56	155	31.61	50.09	4110		.12	.8	.9	DLST	2.3X		152	12
2001	MAR	11	0505	8.73	19	14.02	155	29.77	6.70	5924		.19	.3	.6	LSWF	2.8X		72	2
2001	MAR	11	0821	28.18	19	16.28	155	27.72	8.49	26	3	.13	.4	.7	LSW	1.4X		63	5
2001	MAR	11	2358	9.98	19	18.20	155	14.75	2.68	3515		.10	.2	.4	SSF	1.0X		113	3
2001	MAR	12	0029	4.54	19	24.52	155	16.56	9.04	25	6	.14	.6	.4	INTL	1.7X		135	1
2001	MAR	12	0215	34.94	19	12.52	155	19.75	45.64	37	9	.10	.8	1.1	DEP	1.7X		169	8
2001	MAR	12	0321	13.89	19	19.27	155	13.37	8.88	40	9	.12	.4	.4	SF2	2.0X		122	6
2001	MAR	12	0943	10.56	19	25.19	155	16.34	11.53	16	1	.09	.8	1.2	INT	1.4X		163	1
2001	MAR	12	1025	3.23	19	25.69	155	15.30	15.24	12	4	.11	1.0	1.3	DEPL	1.7X		185	4
2001	MAR	12	1223	48.10	19	12.62	155	20.07	44.22	42	9	.09	.8	1.1	DEP	2.0X		168	8
2001	MAR	12	1327	15.41	19	24.00	155	19.02	10.51	21	6	.07	.6	.7	INTL	1.1X		98	4
2001	MAR	13	1038	22.13	19	22.58	155	26.68	11.79	6629		.11	.2	.4	KAO	2.2X		36	2
2001	MAR	13	2351	10.33	19	14.87	155	27.20	25.74	4018		.13	.6	.8	DLS	1.4X		175	5
2001	MAR	14	0610	35.05	19	17.55	155	29.01	6.49	3816		.15	.3	1.0	LSW	1.1X		48	5
2001	MAR	14	1850	57.72	19	26.11	155	16.83	7.86	28	7	.13	.6	.5	INTL	1.3X		123	2
2001	MAR	15	0019	45.73	19	20.19	155	30.07	8.73	5526		.13	.2	.6	KAO	1.4X		46	6
2001	MAR	15	0122	10.83	19	17.74	155	13.03	8.34	32	7	.12	.4	.6	SF2	1.5X		116	2
2001	MAR	15	0143	14.09	19	18.39	155	12.86	8.01	4118		.12	.4	.5	SF2	1.1X		101	3
2001	MAR	15	1951	15.98	19	15.94	155	27.37	8.16	3913		.15	.3	.5	LSW	1.4X		134	5
2001	MAR	16	0454	2.44	19	26.03	155	16.48	8.03	25	5	.15	.5	.5	INTL	1.6X		147	2
2001	MAR	16	0456	36.59	19	26.75	155	15.17	7.18	24	6	.12	.4	.7	INTL	1.5X		156	5
2001	MAR	16	0602	32.72	19	25.31	155	16.45	11.11	20	6	.13	1.0	.7	INTL	1.6X		164	1
2001	MAR	16	1404	22.06	19	13.84	155	18.94	41.79	3715		.10	1.0	.9	DEP	1.5X		205	8
2001	MAR	16	1436	22.90	19	18.76	155	13.00	8.32	4314		.12	.4	.4	SF2	1.7X		89	3
2001	MAR	17	0155	22.36	19	25.90	155	24.45	9.90	4415		.10	.3	.7	KAO	1.5X		46	7
2001	MAR	17	0540	16.80	19	19.33	155	15.17	5.10	27	7	.10	.3	1.2	SF1	1.2X		103	5
2001	MAR	17	0543	27.01	19	18.70	155	15.52	7.85	3010		.10	.4	.7	SF1	1.3X		112	5
2001	MAR	17	1216	27.55	19	5.26	155	8.58	20.54	3310		.09	.9	1.7	LOI	1.9X		273	22
2001	MAR	17	1448	27.37	19	33.27	156	23.57	6.30	21	7	.15	1.5	1.9	DIS	2.7X		237	50
2001	MAR	18	1954	9.29	19	3.57	155	30.04	44.02	23	6	.18	1.7	1.3	DLSL	2.0X		242	12
2001	MAR	18	2229	12.77	19	20.14	155	7.09	9.29	42	9	.08	.4	.4	SF4	1.8X		133	5
2001	MAR	19	1313	18.76	19	10.49	155	36.52	8.79	33	1	.17	.5	1.5	LSW	1.8X		100	14
2001	MAR	19	1358	45.30	19	4.96	155	29.37	31.87	4813		.11	.7	.8	DLS	2.0X		181	9
2001	MAR	19	2034	30.32	19	18.52	155	15.18	5.04	3110		.12	.4	1.4	SF1	1.0X		112	4
2001	MAR	20	0110	48.79	19	23.08	155	16.21	25.52	4410		.12	.5	.7	DEP	2.0X		48	1
2001	MAR	20	0437	42.39	19	27.89	154	53.39	6.43	32	2	.16	.9	.6	LER	1.6X		131	3
2001	MAR	20	1508	11.28	19	24.92	155	39.17	2.70	28	8	.12	.3	.4	MLO	1.9X		125	3
2001	MAR	20	1940	42.27	19	46.26	155	33.99	13.61	3511		.18	.6	.5	KEA	1.6X		89	11
2001	MAR	21	1453	34.50	19	22.95	155	14.72	3.32	23	9	.08	.3	.4	SEC	1.5X		71	2
2001	MAR	21	1940	20.55	19	25.39	155	18.79	6.75	5416		.11	.3	.4	INTF	2.7X		42	2
2001	MAR	21	1941	12.15	19	24.92	155	18.90	6.72	24	7	.14	.5	.7	INT	2.3X		98	2
2001	MAR	21	2158	7.93	19	15.46	155	16.49	39.36	39	7	.12	.9	1.1	DEP	1.6X		166	6
2001	MAR	22	0624	44.07	19	23.89	155	15.41	1.25	13	5	.05	.3	.6	SEC	1.0X		147	2
2001	MAR	22	0635	59.72	19	23.77	155	15.41	1.68	25	7	.10	.3	.3	SEC	1.5X		94	2
2001	MAR	22	0924	24.24	19	21.00	155	8.69	8.63	4811		.12	.4	.4	SF4F	2.9X		161	3
2001	MAR	22	1211	18.97	19	17.45	155	22.86	3.21	15	6	.08	.3	.8	SWR	.8X		118	5
2001	MAR	22	2259	52.45	19	25.49	155	16.75	9.26	23	7	.11	1.0	.6	INTL	2.4X		151	1
2001	MAR	22	2349	11.47	19	18.93	155	8.76	9.21	4514		.10	.3	.3	SF4	2.1X		98	3
2001	MAR	23	0952	53.87	19	55.68	155	21.31	17.86	25	5	.15	1.3	1.2	KEA	1.7X		280	4
2001	MAR	23	1219	19.75	19	26.41	154	54.18	2.27	3811		.16	.6	.4	SLEF	1.8X		166	3
2001	MAR	23	1245	5.31	19	24.33	155	16.82	10.89	25	6	.09	.4	.4	INTL	1.6X		87	1
2001	MAR	23	1621	39.65	19	49.25	155	5.27	39.47	45	9	.11	.8	1.1	KEA	1.9X		195	15
2001	MAR	23	1931	23.74	19	29.98	155	28.54	6.45	19	3	.09	.4	1.5	KAO	1.5X		70	4
2001	MAR	23	2046	45.65	19	21.54	155	18.89	36.03	16	4	.14	1.5	1.7	DEP	1.7X		191	7
2001	MAR	23	2308	9.10	19	20.82	155	5.87	7.11	27	4	.10	.5	.8	SF4	1.3X		153	6
2001	MAR	24	0316	15.66	19	19.72	155	7.79	8.76	4110		.08	.3	.4	SF4	2.4X		127	4
2001	MAR	24	0518	30.51	19	25.54	155	30.86	16.05	16	3	.11	.6	1.7	DML	1.3X		69	4
2001	MAR	24	0609	38.44	19	20.03	155	10.35	7.05	24	4	.07	.5	.8	SF3	1.1X		86	4
2001	MAR	24	0639	8.79	19	17.52	155	27.14	10.58	13		.11	.6	1.8	LSW	1.9X		93	7
2001	MAR	24	0849	50.71	19	50.95	155	32.05	21.05	12	4	.10	.9	1.8	KEA	2.3X		196	11
2001	MAR	24	1520	50.00	19	35.50	155	46.33	13.30	33	6	.17	.7	.5	KON	1.9X		93	13
2001	MAR	24	1710	35.52	18	54.98	155	9.86	48.13	36	5	.10	1.7	1.9	LOI	1.9X		250	41
2001	MAR	24	1751	26.87	19	23.65	155	16.96	10.92	23	6	.16	.8	.9	INTL	1.6X		54	1
2001	MAR	24	1931	6.88	19	19.35	155	26.65	8.85	37	6	.16	.4	.7	KAO	1.3X		65	6
2001	MAR	24	2330	43.57	19	23.41	155	16.73	9.94	23	4	.14	.5	.6	INTL	1.5X		57	0
2001	MAR	25	0001	23.62	19	25.57	155	18.49	11.10	21	3	.09	.7	.5	INTL	1.4X		105	2
2001	MAR	25	0432	12.40	19	26.72	155	20.39	13.58	4410		.11	.3	.3	DML	1.9X		48	5
2001	MAR	25	0442	3.78	19	24.33	155	17.16	11.85	18	5	.09	.6	.7	INTL	1.6X		69	1
2001	MAR	25	0602	8.14	19	31.75	155	31.02	49.40	20	3	.09	1.1	1.2	DML	2.0X		74	6
2001	MAR	25	0604	39.50	19	22.41	155	14.27	3.35	15	5	.07	.5	.4	SEC	1.5X		129	2
2001	MAR	25	0732	5.31	19	25.72	155	27.32	10.97	3910		.11	.3	.7	KAO	1.5X		38	10
2001	MAR	25	1028	19.40	19	27.98	155	15.34	7.47	18	4	.09	.8	1.4	INTL	1.3X		192	6
2001	MAR	25	1140	42.63	19	36.02	155	41.47	12.30	4011		.14	.4	.3	KEA	1.8X		59	13
2001	MAR	25	1746	32.50	19	24.98	155	15.81	11.47	25	4	.11	.6	.7	INTL	1.6X		92	2
2001	MAR	25	1853	4.16	19	17.11	155	30.69	7.23	43	6	.16	.4	.8	LSW	1.5X		47	4
2001	MAR	25	2249	27.01	19	18.99	155	13.42	5.79	35	4	.13	.5	.9	SF2	1.3X		139	7
2001	MAR	26	0239	8.71	19	34.56	155	15.42	29.13	36	6	.10	.7	1.0	DEP	1.5X		121	13
2001	MAR	26	0434	24.23	19	19.80	155	8.11	9.61	4010		.10	.5	.3	SF4	2.5X		112	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	MAR	26	1244	37.54	19	14.28	155	27.16	9.09	19	3	.10	.7	.7	LSW	1.2X		166	5
2001	MAR	26	1339	18.42	19	22.08	155	29.48	10.66	25	3	.11	.4	1.1	KAO	1.0X		46	8
2001	MAR	26	1457	45.14	19	24.48	155	17.44	12.23	23	5	.10	.6	.5	INTL	1.6X		53	1
2001	MAR	26	1516	23.59	19	24.98	155	16.86	11.73	27	5	.10	.5	.4	INTL	1.5X		84	0
2001	MAR	26	1616	44.25	19	24.39	155	17.50	1.82	12	3	.07	.5	.3	SSCL	1.1X		139	1
2001	MAR	26	2239	9.21	19	19.39	155	8.37	7.58	34	6	.09	.5	.5	SF4	1.4X		111	4
2001	MAR	27	0135	47.82	19	18.12	155	12.58	9.44	38	8	.11	.4	.6	SF2	1.3X		135	8
2001	MAR	27	0155	58.89	19	22.29	155	29.57	9.40	24	6	.12	.4	1.0	KAO	1.2X		45	8
2001	MAR	27	0837	9.42	19	25.03	155	15.98	0.30	23	6	.10	.2	.3	SNCL	2.1X		178	2
2001	MAR	27	1350	11.95	19	29.32	155	16.42	24.25	4410		.09	.6	.7	DEP	1.9X		103	3
2001	MAR	27	1447	47.22	19	24.67	155	16.88	8.47	27	6	.07	.4	.4	INT	1.4X		51	0
2001	MAR	27	1538	50.70	19	23.44	155	17.86	12.25	19	4	.11	1.1	1.2	INTL	1.7X		93	4
2001	MAR	27	1743	56.85	19	15.29	155	33.64	10.60	18		.10	.6	1.6	LSW	1.1X		107	6
2001	MAR	28	0403	12.24	19	20.26	155	11.74	8.28	3710		.09	.4	.5	SF3	1.4X		123	5
2001	MAR	28	0843	19.98	19	24.68	155	17.41	13.11	23	5	.09	.9	.7	DEPL	1.6X		74	1
2001	MAR	28	1435	53.73	19	20.07	155	11.53	8.74	4412		.12	.4	.5	SF3	2.2X		104	5
2001	MAR	28	1445	44.21	19	17.75	155	23.23	2.94	27	4	.13	.4	.9	SWR	1.5X		106	5
2001	MAR	28	1517	18.62	19	19.66	155	11.76	7.66	33	7	.08	.5	.7	SF3	1.4X		134	6
2001	MAR	28	2325	25.72	19	10.51	155	29.28	30.93	22	4	.08	.8	1.8	DLS	1.5X		163	9
2001	MAR	29	0321	2.64	19	13.51	155	1.88	49.55	35	2	.11	1.1	1.7	DEP	2.1X		214	13
2001	MAR	29	0744	39.13	19	46.15	156	8.90	32.41	21		.13	1.5	3.4	HUA	2.1X		195	34
2001	MAR	29	1640	16.71	19	25.93	155	15.70	15.05	34	9	.12	.6	.4	DEPL	1.9X		59	3
2001	MAR	30	0104	3.79	19	29.53	154	53.58	0.18	41	9	.15	.4	.3	SLEF	2.2X		111	5
2001	MAR	30	0441	24.32	19	23.48	155	25.70	9.96	28	3	.11	.4	1.1	KAO	1.4X		56	7
2001	MAR	30	0518	28.96	19	18.38	155	14.10	8.99	40	8	.13	.4	.6	SF2	1.6X		133	8
2001	MAR	30	1249	54.36	18	51.42	155	15.22	12.07	23	2	.09	2.2	1.6	LOI	1.9X		274	40
2001	MAR	30	1320	25.74	19	27.78	155	25.07	10.19	28	7	.08	.4	.8	KAO	1.5X		38	5
2001	MAR	30	1423	6.57	19	25.56	155	15.57	12.89	31	7	.07	.6	.5	INTL	1.9X		105	3
2001	MAR	30	1845	7.34	19	7.84	156	19.04	40.97	41	9	.10	1.0	1.4	KON	2.2X		283	49
2001	MAR	30	2218	50.51	20	16.25	154	39.20	18.47	27	4	.15	1.6	11.5	DIS	2.1X		279	74
2001	MAR	30	2331	49.69	19	54.12	155	44.16	35.87	31	6	.09	.7	1.2	HUA	1.5X		119	25
2001	MAR	31	0016	22.30	19	22.48	155	29.05	8.43	23	4	.09	.4	.9	KAO	1.1X		43	3
2001	MAR	31	0456	48.21	19	25.47	155	16.51	14.64	17	2	.12	1.2	.6	DEPL	1.6X		160	2
2001	MAR	31	0525	41.93	19	13.20	155	16.53	32.09	37	5	.10	.8	1.2	DEP	1.6X		175	9
2001	MAR	31	0725	5.39	19	25.65	155	14.29	14.09	24	5	.10	.9	.3	DEPL	1.8X		160	5
2001	MAR	31	0729	45.71	19	19.64	155	10.79	6.84	14	1	.05	.5	1.2	SF3	.9X		95	5
2001	MAR	31	1149	26.78	19	20.45	155	11.33	8.22	4210		.10	.4	.5	SF3	1.7X		77	4
2001	MAR	31	1211	43.15	19	19.70	155	2.83	7.05	29	3	.14	.7	.7	SF5	1.1X		191	9
2001	MAR	31	1402	17.79	19	11.90	155	33.63	8.01	21	3	.12	.8	1.1	LSW	1.4X		215	9
2001	MAR	31	1840	10.99	19	26.56	155	37.34	2.12	14	3	.07	.6	.4	MLOL	1.6X		178	2
2001	MAR	31	1923	58.01	19	12.88	155	31.12	10.17	16	2	.13	.6	1.6	LSW	1.3X		74	4
2001	MAR	31	2023	14.07	19	26.60	155	28.89	10.34	28	7	.11	.4	.9	KAO	1.4X		58	8
2001	APR	1	0722	54.76	19	22.40	155	29.92	9.24	34	5	.08	.3	.9	KAO	1.4X		48	4
2001	APR	1	0753	49.23	19	12.27	155	33.46	7.21	17	3	.13	.9	1.0	LSW	1.1X		209	8
2001	APR	1	1018	54.94	19	17.19	155	29.38	6.89	27	4	.16	.4	1.1	LSW	1.8U		50	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	APR	1	1626	4.30	19	50.20	155	30.23	18.99	16	1	.11	1.0	1.6	KEA	1.8X		185	8
2001	APR	1	1631	53.05	19	19.00	155	10.92	4.78	22	3	.10	.8	2.9	SSF	1.1X		212	6
2001	APR	1	1715	45.59	19	19.83	155	7.73	5.63	22	2	.10	.5	1.2	SF4	1.4X		121	5
2001	APR	1	1948	45.24	19	18.13	155	22.11	8.07	17	1	.13	.6	1.0	SWR	1.0X		114	4
2001	APR	1	2325	35.91	19	30.57	155	46.78	10.67	19	2	.10	.6	1.4	KON	1.5X		82	15
2001	APR	2	0006	50.92	19	17.79	155	13.86	0.10	37	8	.13	.4	.3	SSF	1.4X		157	8
2001	APR	2	0110	8.48	19	18.68	155	14.08	9.32	38	5	.12	.4	.5	SF2F	2.5X		130	7
2001	APR	2	0135	9.97	19	30.10	155	43.43	5.56	23	6	.12	.6	3.0	KON	1.3X		71	13
2001	APR	2	0722	23.86	19	20.08	155	10.75	8.98	35	7	.10	.5	.5	SF3	1.4X		118	4
2001	APR	2	0852	49.60	19	30.60	155	15.38	25.09	5212		.11	.4	.7	DEPF	2.8X		60	6
2001	APR	2	1100	30.63	19	51.23	155	31.78	22.16	30	6	.11	.8	1.3	KEA	1.8X		197	11
2001	APR	2	1103	23.28	19	19.88	155	15.06	5.91	34	6	.12	.4	.8	SF1	1.3X		119	4
2001	APR	2	1708	37.19	18	48.90	155	8.63	56.24	30	6	.09	1.7	1.8	LOI	2.1X		266	53
2001	APR	2	1835	55.55	19	25.30	155	19.93	3.86	22	5	.08	.4	.9	KAO	1.3X		104	4
2001	APR	2	2129	41.81	19	50.42	155	30.14	19.70	19	5	.14	.8	1.2	KEA	1.5X		186	8
2001	APR	2	2355	38.68	19	19.67	155	7.06	7.08	38	9	.08	.4	.6	SF4	1.7X		138	5
2001	APR	3	0817	18.55	19	42.60	155	25.04	27.49	17	3	.09	.9	1.0	KEA	1.5X		129	9
2001	APR	3	1450	27.88	19	12.33	155	32.79	3.17	38	6	.11	.4	1.1	LSW	1.7X		130	7
2001	APR	4	0109	36.30	19	26.28	155	25.33	10.61	35	7	.10	.4	.7	KAO	1.3X		41	7
2001	APR	4	0216	50.99	19	20.27	155	26.16	10.92	37	7	.11	.3	.8	KAO	1.2X		54	5
2001	APR	4	0432	23.79	19	23.12	155	17.10	2.78	15	4	.09	.4	.3	SSC	1.4X		75	1
2001	APR	4	0652	18.84	19	45.21	156	0.56	7.84	21		.12	2.8	1.1	HUA	2.2X		273	19
2001	APR	4	0730	21.82	19	18.17	155	12.91	9.56	4111		.13	.4	.6	SF2	1.9X		135	8
2001	APR	4	1738	28.76	19	26.06	155	22.40	8.84	31	6	.14	.4	1.0	KAO	1.6X		48	4
2001	APR	5	0742	18.81	19	21.94	155	11.39	3.46	33	7	.08	.3	.4	SER	1.7X		73	3
2001	APR	5	1001	20.45	19	13.94	155	31.31	0.68	38	6	.12	.4	.4	LSW	1.6X		123	13
2001	APR	5	1113	40.71	19	28.26	155	8.61	24.34	30	7	.10	1.1	1.0	DEP	1.7X		92	9
2001	APR	5	1258	6.13	19	16.73	155	29.30	11.32	3610		.13	.4	.7	LSW	1.5X		91	3
2001	APR	5	1653	21.48	19	19.79	155	7.87	7.82	34	3	.09	.5	.7	SF4	1.6X		124	5
2001	APR	5	1859	32.48	19	29.60	155	25.64	5.48	29	6	.14	.4	1.2	KAO	1.4X		50	4
2001	APR	5	2143	0.20	19	22.20	155	28.52	4.28	38	9	.11	.3	.9	KAO	1.6X		42	2
2001	APR	5	2157	13.12	19	21.74	155	13.02	3.24	14	3	.04	.6	.4	SER	1.3X		152	2
2001	APR	5	2236	17.84	19	19.38	155	13.42	8.29	43	9	.11	.4	.6	SF2	1.5X		133	6
2001	APR	6	0633	37.56	19	20.43	155	7.98	8.50	38	8	.09	.5	.5	SF4	1.9X		113	4
2001	APR	6	2011	10.48	19	24.72	155	16.86	11.08	24	4	.13	.8	.6	INTL	1.6X		128	0
2001	APR	7	0114	5.92	19	25.28	155	16.67	10.99	27	4	.12	.8	.5	INTL	1.5X		136	1
2001	APR	7	0202	20.53	19	24.54	155	15.51	9.40	19	3	.07	1.3	.6	INTL	1.6X		237	2
2001	APR	7	0258	25.58	19	22.51	155	17.99	9.18	20	5	.10	.7	.8	INTL	1.6X		95	2
2001	APR	7	0537	49.13	20	4.96	155	46.29	20.73	25	5	.12	.9	1.8	KOH	1.6X		125	5
2001	APR	7	1235	48.99	19	18.96	155	30.54	4.24	25	4	.14	.4	3.7	LSW	1.6X		63	7
2001	APR	7	1450	17.02	19	22.02	155	4.74	6.93	4210		.14	.6	.7	SF5	1.5X		147	4
2001	APR	7	1825	24.14	19	19.52	155	12.83	9.04	36	4	.13	.5	.6	SF2	1.8X		130	6
2001	APR	7	1948	31.53	19	22.24	155	10.65	3.29	20	5	.07	.5	.4	SER	1.6X		124	1
2001	APR	8	0602	56.53	19	12.12	155	32.33	5.12	29	1	.22	.8	2.7	LSW	1.9X		137	7
2001	APR	8	1357	40.93	19	20.43	155	4.33	7.81	32	5	.10	.6	.8	SF5	1.6X		169	7

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	APR	9	0725	14.13	19	17.84	155	28.73	5.68	35	6	.14	.4	1.5	LSW	1.6X		78	6
2001	APR	9	1042	59.74	19	20.45	155	8.19	7.46	34	6	.09	.5	.6	SF4	1.6X		109	4
2001	APR	9	2123	12.37	19	12.32	155	32.52	7.08	29	4	.14	.5	1.3	LSW	1.3X		135	7
2001	APR	10	0228	7.54	19	29.88	155	26.41	12.25	21	5	.17	.5	1.0	KAO	1.4X		94	4
2001	APR	10	0802	42.16	19	22.76	155	4.68	2.52	18	6	.06	.5	.6	SME	1.6X		143	3
2001	APR	10	1156	27.85	19	12.89	155	42.63	0.02	32	4	.23	.6	.5	LSW #	2.0X		84	9
2001	APR	10	2020	54.79	19	18.83	155	13.07	7.83	4010		.13	.4	.8	SF2	1.6X		141	7
2001	APR	10	2052	21.52	19	19.19	155	12.35	7.48	32	5	.09	.5	.8	SF2	1.3X		134	6
2001	APR	10	2315	57.61	19	15.26	155	26.96	8.78	22	3	.13	.6	.7	LSW	1.1X		144	5
2001	APR	11	0211	24.35	19	13.02	155	30.96	6.96	4411		.16	.4	.8	LSW	1.8X		134	4
2001	APR	11	0315	31.64	19	20.83	155	5.93	7.05	28	4	.11	.6	.7	SF4	1.2X		152	5
2001	APR	11	0813	16.09	19	20.96	155	6.20	8.42	26	3	.11	.6	.7	SF4	1.5X		146	5
2001	APR	11	1600	48.48	19	21.78	155	6.33	7.72	4110		.10	.5	.6	SF4	2.1X		132	4
2001	APR	11	1643	50.25	19	20.55	155	11.33	9.91	4410		.10	.4	.4	SF3	2.0X		77	4
2001	APR	11	1657	34.15	20	31.52	155	17.69	29.13	27	7	.12	1.2	4.0	DIS	2.0X		240	67
2001	APR	12	0001	19.09	19	20.69	155	7.01	7.21	35	8	.11	.5	.7	SF4	1.5X		135	5
2001	APR	12	0241	43.82	19	21.95	155	29.59	12.94	26	5	.12	.4	.7	KAO	1.4X		70	8
2001	APR	12	0421	30.74	19	20.61	155	8.05	8.79	24	2	.08	.5	.7	SF4	1.2X		116	4
2001	APR	12	1832	27.14	19	28.62	155	25.20	5.94	34	6	.12	.4	1.2	KAO	1.6X		47	4
2001	APR	12	1853	19.81	19	20.25	155	8.39	7.45	39	8	.11	.5	.7	SF4	1.7X		105	4
2001	APR	13	1700	29.52	19	8.92	155	26.27	40.38	29	4	.10	1.0	1.5	DLS	1.7X		234	3
2001	APR	14	1403	47.48	19	26.91	155	19.51	2.77	35	8	.11	.4	.3	KAO	1.6X		74	2
2001	APR	15	0348	40.10	19	12.55	155	37.52	5.70	40	7	.13	.4	1.1	LSW	2.0X		82	14
2001	APR	15	1116	57.89	18	59.96	155	21.81	47.00	5114		.10	.7	.9	LOI	2.1X		221	27
2001	APR	15	1309	39.21	19	57.20	157	38.36	0.01	4411		.11	5.7	1.4	DIS #	3.2X		299	157
2001	APR	15	1644	52.70	19	19.24	155	11.66	7.30	39	8	.08	.4	.6	SF3	1.4X		130	6
2001	APR	15	2256	50.45	19	19.80	155	7.86	7.22	40	9	.09	.4	.6	SF4	1.6X		119	5
2001	APR	15	2333	16.71	19	24.43	155	17.11	1.79	16	4	.04	.3	.2	SSC	1.3X		78	1
2001	APR	16	0029	59.71	19	3.81	155	23.45	35.55	23	5	.09	1.5	1.0	LOI	1.7X		268	19
2001	APR	16	0418	1.57	19	47.31	155	32.43	23.84	49	8	.11	.4	1.2	KEAF	3.3X		94	9
2001	APR	16	0434	59.92	19	48.21	155	32.65	26.92	26	6	.08	.6	.9	KEA	1.5X		99	9
2001	APR	16	1008	57.01	19	36.18	155	7.81	0.73	34	6	.12	.4	.4	HIL	1.4X		98	15
2001	APR	16	1015	24.21	19	44.40	155	23.71	10.37	18	2	.13	.7	1.6	KEA	1.4X		78	8
2001	APR	16	1222	25.30	19	47.93	155	32.45	27.27	29	5	.12	.8	1.5	KEA	1.7X		175	9
2001	APR	16	1336	11.27	19	27.07	155	12.59	10.58	4511		.09	.4	.5	GLN	1.5X		54	5
2001	APR	16	1506	59.91	19	57.99	155	34.03	10.97	30	6	.17	.8	.5	KOH	1.8X		160	24
2001	APR	16	1838	44.00	19	38.24	154	56.31	37.70	5212		.11	.7	1.0	HIL	2.8X		198	12
2001	APR	16	1932	34.50	19	25.21	155	19.32	5.68	34	6	.11	.4	.9	KAO	1.6X		46	3
2001	APR	16	1955	8.22	19	22.42	155	29.66	12.73	21	4	.09	.5	1.2	KAO	1.3X		70	7
2001	APR	17	0534	18.29	19	10.87	155	33.28	33.76	4010		.11	.6	1.1	DLS	1.7X		134	10
2001	APR	17	0635	54.99	19	46.36	155	45.64	15.45	30	6	.14	.9	1.3	HUA	1.5X		137	12
2001	APR	17	0644	11.19	19	14.28	155	35.75	1.57	36	9	.15	.4	.6	LSW	1.3X		106	10
2001	APR	17	1139	35.26	19	25.34	155	19.80	5.40	34	6	.12	.4	1.1	KAO	1.6X		46	4
2001	APR	17	1326	13.72	19	6.45	155	28.46	31.18	39	8	.09	.7	1.1	DLS	1.7X		176	6
2001	APR	17	1545	14.55	19	23.52	155	14.87	4.25	15	5	.06	.5	.6	SEC	1.3X		98	2

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	APR	17	2010	27.53	19	20.24	155	11.72	9.30	4411		.13	.4	.4	SF3	2.2X		104	5
2001	APR	18	0741	59.74	19	20.76	154	51.89	0.01	3810		.18	1.9	.6	SLE #	2.1X		250	14
2001	APR	18	0833	54.14	19	26.43	155	29.68	10.81	28	6	.08	.4	1.4	KAO	1.5X		61	10
2001	APR	18	1203	35.31	19	20.20	155	7.64	6.23	4010		.10	.5	.8	SF4	1.7X		121	5
2001	APR	18	1731	27.61	19	23.62	155	18.06	13.38	24	4	.12	.7	.9	DEPL	1.7X		49	2
2001	APR	18	1906	10.17	19	22.99	155	0.13	8.84	35	4	.12	.9	.4	SF5	1.7X		171	5
2001	APR	18	1920	24.40	19	11.11	155	41.67	1.08	4211		.14	.4	.4	LSW	2.4X		93	8
2001	APR	18	2217	3.66	19	24.11	154	50.28	38.17	36	4	.11	1.5	1.1	LER	1.5X		264	6
2001	APR	18	2258	18.38	19	18.77	155	13.56	9.82	4710		.12	.3	.5	SF2	2.2X		128	7
2001	APR	18	2303	45.32	19	18.78	155	13.45	9.45	42	9	.10	.4	.5	SF2	2.0X		127	7
2001	APR	18	2307	9.33	19	17.58	155	13.45	0.23	28	4	.10	.5	.5	SSF	1.1X		161	9
2001	APR	19	0837	41.63	19	26.87	155	23.34	12.15	34	7	.12	.4	.6	KAO	1.7X		48	5
2001	APR	19	0843	15.05	19	27.06	155	23.28	12.60	32	5	.11	.5	.9	KAO	1.6X		72	5
2001	APR	19	0849	12.18	19	26.87	155	23.56	11.80	28	7	.11	.5	1.0	KAO	1.4X		69	5
2001	APR	19	1332	46.62	19	25.27	155	14.31	15.37	18	2	.06	.9	.4	DEPL	1.8X		147	1
2001	APR	19	1624	45.17	19	18.94	155	15.03	7.64	35	6	.09	.4	.7	SF1	1.4X		139	5
2001	APR	19	2003	30.17	19	23.64	155	27.98	11.97	31	8	.09	.5	1.0	KAO	1.5X		103	9
2001	APR	19	2052	19.31	19	27.74	155	29.35	10.87	33	7	.10	.5	.8	KAO	1.4X		79	8
2001	APR	19	2135	6.89	19	23.56	155	17.15	2.81	32	7	.11	.3	.2	SSC	2.0X		61	0
2001	APR	20	0016	18.92	19	27.12	155	30.35	10.59	34	7	.11	.4	.9	KAO	1.4X		47	6
2001	APR	20	0436	32.91	19	20.97	155	24.39	8.82	23	4	.13	.4	1.3	SWR	1.0X		50	2
2001	APR	20	0849	34.88	19	17.12	155	15.07	6.85	31	4	.10	.6	.8	SF1	.9X		188	3
2001	APR	20	1010	0.77	19	21.40	155	30.32	9.20	37	5	.10	.4	1.0	KAO	1.5X		53	8
2001	APR	20	1145	18.74	19	18.91	155	30.25	1.69	40	7	.15	.3	.8	LSW	1.6X		51	7
2001	APR	20	1145	47.83	19	18.64	155	29.86	3.74	4211		.11	.3	1.5	LSW	1.4X		57	7
2001	APR	20	1431	19.27	19	24.15	155	16.36	0.84	25	4	.11	.2	.2	SECL	1.4X		113	1
2001	APR	20	1735	27.24	19	22.04	155	34.41	5.79	19	1	.10	.4	1.8	MLO	1.5X		72	6
2001	APR	20	1853	55.32	19	30.84	155	23.75	19.17	24	4	.09	.6	.9	DML	1.6X		117	2
2001	APR	20	2007	39.29	20	0.49	155	32.77	20.86	24	4	.14	1.1	2.4	KEA	1.6X		182	25
2001	APR	20	2057	26.95	19	26.60	155	29.57	11.54	24	3	.14	.5	1.5	KAO	1.2X		46	7
2001	APR	21	0746	56.42	19	18.90	155	28.66	3.14	42	9	.11	.3	1.1	LSW	1.6X		64	7
2001	APR	22	0459	55.69	19	8.96	155	31.57	40.82	41	6	.10	.7	1.1	DLSL	1.9X		138	7
2001	APR	22	0515	15.47	19	3.31	156	21.51	38.03	35	8	.13	1.2	2.3	DIS	2.4X		301	56
2001	APR	22	0613	1.70	19	22.72	155	19.25	1.52	19	3	.11	.4	.8	KAOL	1.5X		77	4
2001	APR	22	0751	12.07	19	3.75	156	20.16	39.74	27	8	.09	1.2	2.3	DIS	2.1X		299	54
2001	APR	22	1040	19.43	19	20.73	155	6.54	7.29	4711		.12	.4	.5	SF4	1.8X		137	5
2001	APR	22	1900	34.47	19	31.57	155	46.28	13.36	15	1	.14	1.3	.6	KON	1.3U		190	19
2001	APR	22	2118	45.50	19	46.74	155	21.61	17.22	4711		.11	.4	1.5	KEA	2.3X		95	10
2001	APR	23	0324	36.85	19	12.94	155	16.60	47.02	37	7	.11	1.0	1.0	DEP	1.8X		209	10
2001	APR	23	0325	27.34	19	12.89	155	16.38	47.72	3810		.11	.8	.8	DEP	1.7X		210	10
2001	APR	23	0550	10.42	19	20.27	155	4.74	6.66	31	4	.12	.6	.8	SF5	1.4X		167	8
2001	APR	23	0733	7.56	19	2.36	156	18.02	34.76	25	4	.13	2.0	2.6	KON	2.1X		329	52
2001	APR	23	0942	31.88	19	23.55	155	30.08	15.27	28	2	.09	.5	1.0	DML	1.6X		77	6
2001	APR	24	0019	50.98	18	57.35	155	29.80	35.48	31	6	.09	.9	1.1	DLS	2.0X		234	18
2001	APR	24	0532	15.06	19	45.24	155	20.15	12.81	26	4	.14	.6	.6	KEA	1.7X		102	13

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	APR	24	0643	10.41	19	25.61	155	19.20	6.65	35	7	.10	.4	.7	KAO	1.7X		49	3
2001	APR	24	1719	4.13	19	29.97	155	27.37	6.49	28	6	.12	.4	1.3	KAO	1.7X		58	4
2001	APR	24	1807	30.11	19	19.80	155	8.67	6.91	26	2	.08	.5	.8	SF4	1.5X		121	5
2001	APR	24	1822	42.13	19	31.88	155	28.05	10.77	13	2	.12	1.3	1.5	MLO	1.4X		181	1
2001	APR	24	2123	37.67	19	30.01	155	26.69	11.76	14	2	.06	.5	.8	MLO	1.3X		95	4
2001	APR	24	2200	19.85	19	22.14	155	1.84	6.23	22		.12	1.3	.8	SF5	1.2X		201	6
2001	APR	25	0607	51.40	19	28.83	155	23.94	12.23	14	2	.13	.7	1.5	KAO	1.4X		87	2
2001	APR	25	0955	40.01	19	20.67	155	13.11	6.60	24	2	.09	.5	.8	SF2	1.3X		63	4
2001	APR	25	1043	42.40	19	17.62	155	30.06	8.99	11	2	.12	1.1	2.3	LSW	1.3X		110	5
2001	APR	25	1737	39.35	19	25.44	155	18.28	6.34	45	5	.11	.3	.5	INTF	4.4U		37	1
2001	APR	25	1739	24.21	19	24.82	155	19.02	5.18	14	2	.09	.5	1.2	INT	1.8X		99	3
2001	APR	25	1745	15.95	19	24.78	155	18.16	6.72	19	7	.09	.6	.7	INT	1.4X		82	2
2001	APR	25	1745	55.38	19	25.07	155	18.82	5.04	14	2	.12	.6	1.0	INT	1.1X		88	2
2001	APR	25	1750	2.82	19	24.71	155	19.18	4.74	18	3	.10	.5	1.2	KAO	1.2X		92	3
2001	APR	25	1751	39.50	19	24.71	155	19.10	4.87	18	3	.10	.5	1.1	KAO	1.1X		90	3
2001	APR	25	1757	44.64	19	24.24	155	19.93	1.13	15	2	.09	.3	.9	KAO	1.3X		55	5
2001	APR	25	1804	25.47	19	24.63	155	19.44	3.87	16	4	.10	.9	1.6	KAO	.9X		94	4
2001	APR	25	1819	24.80	19	25.48	155	18.30	6.22	46	7	.11	.3	.4	INTF	4.0U		37	1
2001	APR	25	1837	29.64	19	24.66	155	19.67	4.17	11	1	.08	1.2	2.2	KAO	.8X		97	4
2001	APR	25	1918	8.89	19	30.75	155	23.38	13.71	15	2	.06	.6	.5	DML	1.5X		135	2
2001	APR	25	2201	41.02	19	24.49	155	29.89	14.34	15	1	.10	.6	1.4	DML	1.4X		54	5
2001	APR	26	0133	27.93	19	19.89	155	8.68	6.41	34	2	.09	.5	.6	SF4	1.6X		99	5
2001	APR	26	0324	57.55	19	25.01	155	19.30	4.51	24	4	.11	.4	1.1	KAO	1.8X		114	3
2001	APR	26	0420	29.74	19	24.92	155	16.69	3.87	12	3	.08	.6	.6	SNCL	1.4X		148	1
2001	APR	26	0423	51.46	19	24.98	155	19.32	4.75	20	5	.08	.4	1.2	KAO	1.5X		79	3
2001	APR	26	0435	36.18	19	14.39	155	33.46	6.25	33	3	.19	.5	1.8	LSW	1.8X		112	6
2001	APR	26	0512	19.25	19	26.20	155	19.42	8.16	9	2	.05	1.0	1.5	KAO	1.5X		156	4
2001	APR	26	0518	40.43	19	26.36	155	19.60	8.15	35	7	.11	.4	.7	KAO	1.9X		48	4
2001	APR	26	0751	52.11	19	27.19	155	54.59	11.49	20	4	.15	1.5	.8	KON	1.7X		261	21
2001	APR	26	0914	23.38	19	26.77	155	19.08	10.89	15	5	.10	2.0	1.1	KAOL	1.6X		159	4
2001	APR	26	1101	54.34	19	52.27	155	44.23	10.36	16	2	.11	1.2	.8	HUA	1.8X		239	23
2001	APR	26	1407	18.96	19	25.15	155	18.30	4.80	29	5	.10	.3	.6	SNC	1.6X		41	1
2001	APR	26	2304	40.60	19	17.41	155	48.00	8.35	17	2	.10	.8	2.4	KON	.9X		104	8
2001	APR	26	2323	17.92	19	26.34	155	30.31	13.18	19	2	.12	.5	1.1	DML	1.3X		62	5
2001	APR	26	2338	29.99	19	24.87	155	19.07	6.78	16	4	.05	.5	1.0	KAO	1.2X		108	3
2001	APR	27	0525	1.67	19	47.39	155	25.71	24.39	22	5	.10	.6	1.1	KEA	1.5X		142	3
2001	APR	27	0820	21.71	19	46.89	155	20.98	14.87	23	4	.09	.7	.6	KEA	1.7X		148	11
2001	APR	27	0953	52.16	19	25.80	155	17.91	4.71	13	3	.13	1.5	.7	SNC	1.1X		145	1
2001	APR	27	1329	15.41	19	19.14	155	8.51	6.90	24	2	.09	.5	.9	SF4	1.4X		125	3
2001	APR	27	1707	27.71	19	19.97	155	6.54	6.81	39	9	.12	.5	.8	SF4	1.6X		146	5
2001	APR	27	2150	24.68	19	29.75	156	10.88	42.03	19	4	.12	1.4	2.1	KON	X 1.4X		222	28
2001	APR	28	0108	29.03	19	20.11	155	7.42	7.64	37	8	.09	.4	.5	SF4	1.7X		127	5
2001	APR	28	0842	5.69	19	29.22	154	53.59	0.06	29	2	.13	.3	.6	SLE	# 1.8X		104	4
2001	APR	28	0851	41.81	19	2.50	154	41.83	6.49	37	3	.13	1.8	1.0	DIS	2.2X		296	49
2001	APR	29	0545	53.00	19	20.85	155	30.05	11.44	18	1	.13	.7	1.4	KAO	1.4X		52	9
2001	APR	29	0956	0.33	19	21.54	155	30.11	4.64	15	1	.09	.4	10.5	KAO	- .9X		50	12
2001	APR	29	1011	14.13	19	18.40	155	12.62	8.05	33	2	.09	.4	.6	SF2	1.4X		108	3
2001	APR	29	1343	41.10	19	19.45	155	13.54	7.01	40	9	.14	.4	.8	SF2	1.5X		67	4
2001	APR	29	1740	27.51	19	40.47	156	4.94	8.61	34	1	.15	2.1	.8	HUA	2.6X		279	26
2001	APR	29	1755	29.59	19	15.16	155	32.26	1.08	4811		.15	.3	.5	LSW	2.6X		62	13
2001	APR	29	1822	22.51	19	24.73	155	19.81	6.14	14	2	.09	.5	1.9	KAO	1.0X		89	4
2001	APR	29	2052	18.67	19	27.41	155	27.85	11.72	22	3	.11	.4	1.0	KAO	1.4X		59	8
2001	APR	30	0025	25.66	19	12.29	155	40.80	9.37	35	6	.12	.3	.9	LSW	2.3X		74	11
2001	APR	30	0422	55.77	19	12.31	155	38.07	7.58	24	2	.13	.4	1.3	LSW	1.5X		82	15
2001	APR	30	1305	49.44	19	18.78	155	47.60	8.56	34	9	.12	.5	.9	KON	1.5X		116	10
2001	APR	30	1536	33.35	19	27.63	155	14.19	29.23	43	8	.10	.5	.8	DEP	1.7X		52	4
2001	MAY	1	0613	11.47	19	16.51	155	30.24	8.78	39	9	.20	.4	1.1	LSW	1.6X		61	3
2001	MAY	1	0622	49.60	19	22.68	155	30.00	8.63	32	4	.08	.3	.9	KAO	1.4X		48	4
2001	MAY	1	1249	11.77	19	24.48	155	19.66	3.01	15	1	.07	.6	1.4	KAO	1.2X		96	4
2001	MAY	1	1327	51.08	19	24.73	155	19.31	4.50	27	4	.09	.3	1.0	KAO	1.6X		69	3
2001	MAY	2	0220	17.56	19	29.24	155	28.47	6.88	22	5	.07	.3	1.3	KAO	1.2X		66	5
2001	MAY	2	0427	35.01	19	18.75	155	15.67	7.72	43	8	.12	.4	.6	SF1	1.5X		101	5
2001	MAY	2	0751	13.29	18	55.12	155	13.59	12.89	34	4	.12	1.5	.9	LOI	1.8X		246	36
2001	MAY	2	1054	44.32	19	7.14	155	32.67	47.88	4815		.14	.8	1.0	DLST	2.5X		154	9
2001	MAY	2	1055	36.44	19	9.46	155	35.41	50.48	37	7	.13	1.0	1.2	DLST	2.7X		114	13
2001	MAY	2	1100	10.86	19	6.92	155	26.85	45.57	30	3	.12	1.0	1.4	DLST	2.2X		179	5
2001	MAY	2	1316	12.83	19	18.27	155	12.94	6.57	32	5	.12	.5	1.2	SF2	1.4X		138	8
2001	MAY	2	1619	13.52	19	20.32	155	12.81	9.36	33	5	.08	.5	.5	SF2	1.2X		119	4
2001	MAY	2	1701	56.41	19	42.35	156	14.19	5.37	18	3	.11	2.3	2.4	HUA	1.7X		316	41
2001	MAY	2	1704	11.68	19	43.88	156	9.06	6.31	18	1	.13	3.1	1.0	HUA	1.9X		308	33
2001	MAY	2	1719	3.90	19	40.50	156	16.62	7.86	15	2	.11	2.0	1.9	HUA	1.4X		319	43
2001	MAY	2	1753	37.00	19	30.01	155	25.70	12.38	21	3	.11	.6	.9	MLO	1.3X		84	4
2001	MAY	3	0124	44.56	19	6.72	155	24.18	34.96	34	4	.09	.8	1.5	LOI	1.6X		188	8
2001	MAY	3	0245	51.64	19	29.16	155	16.07	28.17	4911		.11	.5	.7	DEP	2.3X		55	3
2001	MAY	3	0335	2.73	18	51.16	155	12.15	6.49	38	7	.12	1.0	.7	LOI	2.0X		259	44
2001	MAY	3	0550	40.07	19	22.16	155	6.22	0.01	33	6	.11	.3	.2	SME	# 1.4X		130	3
2001	MAY	3	0810	51.65	19	12.54	155	32.98	4.48	29	2	.14	.5	3.3	LSW	1.5X		128	7
2001	MAY	3	0922	38.93	19	20.65	155	8.61	8.16	41	4	.11	.4	.6	SF4	1.9X		102	3
2001	MAY	3	1940	8.54	19	50.63	155	56.01	37.73	4710		.12	.7	1.3	HUA	2.4X		158	20
2001	MAY	4	1011	21.78	19	18.97	155	15.12	6.98	31	6	.10	.4	.8	SF1	1.4X		101	4
2001	MAY	4	1232	38.87	19	21.16	155	6.04	7.31	38	7	.11	.4	.5	SF4	1.7X		141	5
2001	MAY	4	1326	17.98	19	50.81	155	58.26	9.47	23	4	.12	1.0	.7	HUA	2.0X		165	22
2001	MAY	4	1757	49.17	19	20.99	155	7.92	9.52	4010		.09	.5	.4	SF4	2.0X		114	4
2001	MAY	4	1815	10.36	19	45.45	156	15.26	6.76	12	2	.09	8.0	10.3	HUA	- 1.5U		316	75
2001	MAY	5	0028	55.32	19	19.60	155	12.14	8.83	38	5	.12	.4	.5	SF3	1.8X		88	5
2001	MAY	5	0100	20.12	20	4.15	155	56.72	9.78	42	5	.13	.7	.8	KOH	2.5X		151	14
2001	MAY	5	0849	28.29	19	12.32	155	28.20	11.08	12	2	.13	1.2	.8	LSW	1.2X		239	6
2001	MAY	5	1002	56.73	19	18.40	155	49.59	5.93	21	3	.14	.8	3.4	KON	1.5X		108	6
2001	MAY	5	1129	24.83	19	19.91	155	6.24	8.15	36	6	.08	.5	.4	SF4	1.8X		151	6
2001	MAY	6	0043	5.70	19	14.87	155	32.86	1.63	4812		.13	.3	.5	LSW	2.4X		110	16

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	MAY	6	0044	43.01	19	14.01	155	32.88	5.86	25	3	.15	.4	1.4	LSW	1.4X		71	5
2001	MAY	6	0054	16.55	17	53.33	153	37.31	0.71	30	2	.15	16.3	5.2	DIS -	2.9X		344	217
2001	MAY	6	0211	9.06	19	20.44	155	11.04	8.49	37	8	.11	.5	.5	SF3	1.8X		108	4
2001	MAY	6	0213	50.07	19	20.23	155	11.10	7.45	39	8	.08	.4	.5	SF3	1.4X		104	4
2001	MAY	6	0225	2.98	19	20.63	155	10.74	7.77	35	4	.12	.5	.5	SF3	2.1X		92	3
2001	MAY	6	0509	37.67	19	19.75	155	8.48	7.33	37	7	.10	.4	.6	SF4	1.5X		104	5
2001	MAY	6	0742	43.65	19	20.29	155	2.58	39.08	48	10	.10	.7	.9	DEP	2.6X		184	8
2001	MAY	6	1127	5.53	19	23.22	155	17.69	12.28	38	8	.10	.4	.4	INT	1.5X		52	1
2001	MAY	6	1419	59.80	19	28.15	155	27.39	7.53	37	9	.11	.3	1.0	KAO	1.6X		49	7
2001	MAY	6	1549	59.49	19	24.87	155	19.02	4.31	25	4	.08	.4	.8	SNC	1.2X		98	3
2001	MAY	6	1951	28.07	19	19.97	155	12.37	7.52	41	8	.12	.4	.6	SF2	1.7X		79	5
2001	MAY	7	0022	39.72	19	24.05	155	26.36	10.04	42	8	.10	.3	.6	KAO	1.9X		35	4
2001	MAY	7	0348	54.37	19	30.98	155	15.25	24.37	30	6	.12	.6	1.1	DEP	1.2X		84	6
2001	MAY	7	1311	25.23	19	19.47	155	11.39	8.16	30	3	.09	.6	.8	SF3	1.6X		136	6
2001	MAY	7	1421	53.56	19	21.81	155	13.47	29.63	32	4	.11	.8	1.0	DEP	1.4X		102	2
2001	MAY	7	1815	28.28	19	48.27	156	6.10	3.00	15	3	.12	2.3	1.0	HUA	1.6X		315	30
2001	MAY	7	1821	10.59	19	58.16	155	30.09	32.75	24	6	.09	.8	1.6	KEA	1.7X		175	19
2001	MAY	7	1958	5.40	19	28.23	155	27.84	9.77	28	5	.08	.3	.8	KAO	1.4X		50	7
2001	MAY	7	2225	1.59	19	32.82	155	14.19	24.67	42	10	.11	.5	.9	DEP	1.7X		67	10
2001	MAY	8	1150	13.33	18	57.79	156	32.34	6.85	30	6	.09	6.8	8.7	DIS -	2.4X		292	84
2001	MAY	8	1405	49.60	19	20.21	155	8.59	7.18	34	5	.10	.6	.7	SF4	1.4X		101	4
2001	MAY	8	2326	25.37	19	22.53	155	2.18	8.29	34	4	.13	.7	.4	SF5	1.6X		163	5
2001	MAY	9	0433	56.80	19	56.43	155	55.27	15.09	50	7	.11	.6	1.1	KOHF	3.0X		152	26
2001	MAY	9	2006	3.37	19	21.13	155	15.95	15.62	37	5	.13	.6	.3	DEP	1.5X		103	2
2001	MAY	10	0013	57.67	19	21.78	155	29.90	2.45	18	2	.10	.4	1.8	KAO	1.3X		61	12
2001	MAY	10	0049	7.80	19	23.86	155	50.31	12.39	17	1	.10	.7	.5	KON	1.5X		127	13
2001	MAY	10	1219	23.54	19	37.08	155	9.65	27.65	31	7	.12	.7	1.5	KEA	1.6X		148	17
2001	MAY	10	2005	9.41	19	39.14	155	22.38	13.75	33	6	.12	.4	.5	KEA	1.7X		81	13
2001	MAY	10	2208	59.58	19	16.36	155	29.45	8.23	27	4	.14	.4	.9	LSW	1.3X		96	3
2001	MAY	11	0904	49.30	19	12.55	155	42.79	1.35	35	4	.17	.5	.8	LSW	1.6X		85	8
2001	MAY	11	1449	25.89	19	18.26	155	12.99	9.46	35	5	.10	.5	.5	SF2	2.0X		101	2
2001	MAY	11	1541	52.19	19	18.30	155	13.14	8.33	27	3	.10	.5	.7	SF2	1.6X		94	2
2001	MAY	11	2207	19.66	19	18.19	155	13.11	7.14	23	2	.11	.6	1.0	SF2	1.1X		98	2
2001	MAY	12	0120	35.34	19	18.91	155	13.07	8.55	32	3	.09	.4	.5	SF2	1.5X		85	4
2001	MAY	12	1041	30.75	19	19.73	155	7.55	9.30	48	12	.12	.5	.4	SF4	2.6X		127	4
2001	MAY	13	0104	0.75	19	20.28	155	6.52	5.53	19	1	.11	.5	1.4	SF4	1.5X		150	6
2001	MAY	13	0632	23.93	19	2.28	155	26.64	40.60	17	1	.07	2.2	3.1	DLS	1.3X		231	23
2001	MAY	13	0638	42.77	20	19.53	156	27.01	5.10	19	3	.14	1.7	2.4	DIS	1.7U		226	36
2001	MAY	13	1543	52.40	19	19.36	155	8.72	6.59	34	6	.08	.5	.8	SF4	1.6X		99	4
2001	MAY	13	2216	18.19	19	18.99	155	29.02	8.86	22	3	.11	.4	1.2	LSW	1.2X		61	7
2001	MAY	13	2301	15.76	19	25.70	155	15.95	1.83	41	6	.10	.2	.3	SNCF	2.6X		47	2
2001	MAY	14	1316	57.22	19	28.07	155	24.72	11.92	34	8	.07	.4	.6	KAO	1.7X		60	4
2001	MAY	14	1614	41.12	19	25.88	155	30.35	14.80	21	4	.12	.5	1.1	DML	1.2X		44	5
2001	MAY	14	1939	23.22	18	56.49	155	17.06	9.44	25	2	.17	1.7	.9	LOI	1.7X		239	35
2001	MAY	14	2011	32.30	19	12.27	155	32.49	4.43	33	2	.15	.5	2.5	LSW	1.5X		86	7

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	MAY	14	2034	17.22	19	20.24	155	11.77	7.18	34	6	.09	.5	.6	SF3	1.4X		123	5
2001	MAY	14	2102	4.96	19	10.46	155	32.78	6.30	22	1	.12	.6	2.1	LSW	1.4X		110	9
2001	MAY	15	0019	10.60	19	12.42	155	37.34	6.50	36	5	.15	.4	1.3	LSW	1.6X		84	14
2001	MAY	15	0342	13.91	19	16.32	155	27.15	7.22	32	2	.13	.4	1.0	LSW	1.5X		63	6
2001	MAY	15	0730	30.87	19	19.80	155	8.26	6.82	32	4	.08	.4	.7	SF4	1.4X		114	5
2001	MAY	15	1559	4.48	19	24.00	155	22.61	10.92	36	5	.09	.3	.6	KAO	1.4X		41	7
2001	MAY	15	2324	52.97	19	19.09	155	29.38	8.15	42	9	.13	.3	1.1	KAO	1.5X		38	8
2001	MAY	16	0144	55.63	19	12.59	155	19.22	28.07	32	4	.13	.8	1.2	DEP	1.6X		171	9
2001	MAY	16	0216	45.25	19	20.38	155	10.63	9.22	38	6	.12	.6	.5	SF3	1.5X		106	3
2001	MAY	16	0249	40.41	19	21.11	155	22.95	9.17	29	4	.12	.4	.7	SWR	1.4X		62	2
2001	MAY	16	0250	11.56	19	20.58	155	22.60	9.90	39	8	.11	.4	.6	SWR	1.6X		69	1
2001	MAY	16	0418	10.44	19	12.85	155	31.23	9.70	29	3	.15	.5	.9	LSW	1.6X		75	5
2001	MAY	16	1016	39.27	19	30.25	155	27.33	6.85	12	3	.05	.5	1.1	MLO	1.2X		128	3
2001	MAY	16	1300	47.62	19	21.84	155	6.71	7.81	28	5	.10	.4	.6	SF4	1.4X		129	3
2001	MAY	16	1319	51.46	19	17.21	155	29.01	6.90	26	4	.09	.4	1.0	LSW	1.4X		122	4
2001	MAY	16	1530	32.81	19	15.42	155	26.60	7.30	23	2	.11	.5	.9	LSW	1.5X		139	5
2001	MAY	16	2208	47.84	19	24.85	155	38.95	3.16	20	2	.10	.7	.6	MLO	1.5X		189	2
2001	MAY	17	0130	39.80	19	28.83	155	25.05	8.69	21	4	.12	.6	1.4	KAO	1.3X		86	4
2001	MAY	17	0631	34.05	19	36.85	156	7.12	39.50	20	3	.13	2.2	1.7	KON	2.0X		291	25
2001	MAY	17	0717	39.54	19	19.59	155	9.13	8.33	37	5	.09	.5	.6	SF3	1.4X		88	5
2001	MAY	17	1128	5.77	19	19.74	155	13.16	7.69	35	6	.10	.4	.7	SF2	1.4X		128	5
2001	MAY	17	2107	1.77	19	21.83	155	30.40	8.60	29	3	.08	.4	1.9	KAO	1.2X		53	12
2001	MAY	17	2120	10.74	19	15.32	155	24.44	36.01	43	9	.11	.7	1.0	DEP	1.7X		76	2
2001	MAY	18	0401	17.15	19	15.35	155	32.07	8.88	22		.17	.8	1.1	LSW	1.2X		107	3
2001	MAY	18	0644	19.86	19	17.56	155	15.53	5.89	33	3	.10	.4	1.0	SF1	1.4X		144	4
2001	MAY	18	1059	39.28	19	51.67	155	23.74	23.93	38	9	.11	.6	1.5	KEA	2.0X		113	6
2001	MAY	18	1529	16.97	19	21.01	155	5.09	6.38	39	6	.13	.6	.9	SF5	1.9X		154	6
2001	MAY	18	2252	16.18	19	25.27	155	18.87	6.30	40	11	.11	.4	.6	INT	1.6X		80	2
2001	MAY	18	2342	20.94	19	17.62	155	2.24	45.53	39	7	.13	.9	1.2	DEP	2.2X		206	10
2001	MAY	19	0349	58.78	19	19.54	155	11.81	8.14	40	8	.10	.4	.6	SF3	1.7X		92	5
2001	MAY	19	1821	19.50	19	19.26	155	30.11	52.67	27	4	.14	1.5	1.9	DML	2.0X		102	8
2001	MAY	20	0250	22.08	19	24.02	155	27.52	9.81	27	2	.13	.4	1.0	KAO	1.3X		35	10
2001	MAY	20	0459	3.44	19	25.01	155	16.21	4.59	20	5	.09	.4	.5	SNCL	1.6X		147	1
2001	MAY	20	0753	49.29	19	7.18	155	28.47	31.19	16	6	.07	.9	1.2	DLS	1.8X		171	15
2001	MAY	20	0852	30.88	19	24.22	155	17.46	14.17	21	1	.13	.7	.8	DEPL	1.7X		87	2
2001	MAY	20	0855	12.18	19	24.00	155	17.48	9.01	23	4	.13	.6	.5	INTL	1.7X		83	1
2001	MAY	20	0856	51.45	19	25.17	155	15.85	10.49	27	3	.10	.7	.5	INTL	1.8X		142	2
2001	MAY	20	0900	25.60	19	24.17	155	16.23	10.45	24	4	.10	.5	.4	INTL	1.8X		81	1
2001	MAY	20	0942	55.44	19	25.14	155	20.06	5.12	23	6	.12	.4	1.3	KAO	1.4X		63	4
2001	MAY	20	1009	26.59	19	24.58	155	17.75	0.63	17	4	.11	.3	.4	SNCL	.8X		84	1
2001	MAY	20	1016	52.13	19	24.18	155	17.28	11.67	23	3	.11	.6	.5	INTL	1.7X		85	1
2001	MAY	20	1118	13.84	18	56.75	155	28.46	36.32	38	3	.09	1.1	1.5	DLS	2.3X		237	21
2001	MAY	20	1706	14.02	19	23.79	155	16.74	2.73	34	6	.10	.3	.2	SSC	2.0X		62	0
2001	MAY	20	1707	24.27	19	23.71	155	16.78	2.88	24	4	.09	.3	.2	SSC	1.9X		50	0
2001	MAY	20	1743	4.11	19	23.55	155	16.69	3.20	34	5	.11	.3	.3	SSC	2.3X		45	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	MAY	20	2043	43.98	19	25.64	155	16.70	11.59	22	4	.09	.9	.8	INTL	1.2X		160	1
2001	MAY	20	2100	9.90	19	25.30	155	16.97	13.94	21	4	.11	1.0	.8	DEPL	1.1X		149	1
2001	MAY	20	2138	18.55	19	25.14	155	17.40	9.86	17		.14	1.1	1.5	INTL	.7X		135	1
2001	MAY	20	2157	29.32	19	23.93	155	16.85	13.11	19	3	.12	.9	.9	DEPL	1.0X		80	0
2001	MAY	20	2205	5.36	19	25.66	155	16.59	12.95	20	3	.06	.9	.4	INTL	1.0X		139	2
2001	MAY	20	2223	23.55	19	25.07	155	16.83	12.36	26	3	.09	.7	.6	INTL	.9X		139	0
2001	MAY	20	2229	25.31	19	25.18	155	16.61	13.16	26	3	.10	.7	.5	DEPL	1.2X		127	1
2001	MAY	20	2318	44.56	19	27.39	155	13.45	18.32	20	3	.11	1.5	.7	DEPL	1.4X		232	5
2001	MAY	20	2322	44.76	19	25.09	155	15.99	14.18	20	4	.07	1.0	.5	DEPL	1.0X		159	2
2001	MAY	20	2328	41.15	19	25.58	155	16.59	12.67	19	2	.08	.9	.8	INTL	1.2X		159	1
2001	MAY	20	2332	3.78	19	24.77	155	16.87	11.70	18	3	.09	.9	.9	INTL	.9X		135	0
2001	MAY	20	2342	36.02	19	23.72	155	15.75	16.03	14	3	.07	1.3	.8	DEPL	.9X		133	2
2001	MAY	21	0223	49.11	19	25.19	155	17.04	11.39	18	1	.06	.9	1.1	INT	1.3X		146	1
2001	MAY	21	0305	46.30	19	19.53	155	6.74	7.44	26	4	.08	.5	.7	SF4	1.2X		181	5
2001	MAY	21	0354	2.69	19	18.71	155	15.16	5.83	22	1	.11	.5	1.4	SF1	1.1X		107	4
2001	MAY	21	0442	53.98	19	20.35	155	11.45	8.84	30	3	.08	.5	.5	SF3	1.4X		78	4
2001	MAY	21	0450	20.81	19	15.96	155	31.96	5.93	23	2	.13	.5	1.1	LSW	.9X		88	4
2001	MAY	21	0606	41.95	19	20.39	155	11.73	8.76	32	3	.08	.5	.6	SF3	1.4X		77	5
2001	MAY	21	1510	23.71	19	21.88	155	28.04	9.50	38	6	.12	.4	.8	KAO	1.6X		44	1
2001	MAY	21	1615	35.92	19	21.89	155	7.86	47.53	30	4	.10	1.3	1.4	DEP	1.5X		127	3
2001	MAY	21	2339	4.15	19	55.56	155	39.55	11.57	15	3	.07	1.5	.6	KOH	1.4X		240	26
2001	MAY	21	2354	40.43	19	10.97	155	28.30	34.44	35	5	.08	.6	1.4	DLS	1.5X		152	8
2001	MAY	22	0144	4.15	19	11.99	155	27.42	6.92	37	5	.14	.4	.9	LSW	1.6X		117	5
2001	MAY	22	0145	2.16	19	12.01	155	27.17	3.94	15		.15	.8	3.0	LSW	1.2X		122	5
2001	MAY	22	0310	53.29	19	28.97	155	24.21	11.35	23	3	.13	.5	.8	KAO	1.3X		68	2
2001	MAY	22	0352	13.02	19	51.83	155	30.51	13.55	22	3	.10	1.1	.6	KEA	1.8X		199	18
2001	MAY	22	0359	7.96	19	21.21	155	30.34	14.62	15	1	.09	.7	1.6	DML	1.2X		94	8
2001	MAY	22	0543	27.12	19	22.53	155	30.28	25.16	14	3	.09	1.3	1.2	DML	1.3X		187	14
2001	MAY	22	0656	32.85	19	24.26	155	25.29	10.04	13	1	.11	.6	2.0	KAO	1.0X		63	8
2001	MAY	22	1107	32.20	19	13.82	155	20.18	43.42	22	5	.10	1.2	1.3	DEP	1.6X		187	7
2001	MAY	23	0137	22.18	19	6.97	155	28.29	31.40	19	2	.09	1.3	2.4	DLS	1.4X		239	5
2001	MAY	23	0219	57.76	19	19.64	155	7.09	8.08	27	1	.09	.5	.7	SF4	1.4X		145	4
2001	MAY	23	0416	3.84	19	25.48	155	20.12	8.42	17	3	.09	.5	1.3	KAO	1.1X		126	4
2001	MAY	23	1528	23.81	19	20.26	155	8.76	6.94	17	2	.13	.6	1.3	SF4	1.1X		103	4
2001	MAY	23	1632	50.50	19	29.42	155	26.31	7.69	10	1	.13	.9	2.2	KAO	1.1X		120	5
2001	MAY	23	1800	29.83	19	18.68	155	13.11	9.45	34	3	.08	.5	.6	SF2	1.7X		132	7
2001	MAY	23	1924	53.83	19	23.98	155	15.76	3.19	34	5	.11	.3	.3	SEC	2.2X		54	1
2001	MAY	24	0128	12.55	19	28.74	155	25.77	11.06	21	4	.11	.4	.8	KAO	1.4X		54	5
2001	MAY	24	0234	59.24	19	27.72	155	25.55	8.95	38	7	.11	.3	.9	KAO	1.8X		50	5
2001	MAY	24	0251	42.67	19	27.58	155	25.64	9.06	4911		.12	.3	.6	KAO	2.6X		36	6
2001	MAY	24	0420	6.12	19	17.66	155	22.37	34.99	22	3	.12	.9	2.0	DEP	1.5X		112	5
2001	MAY	24	0528	56.82	19	27.80	155	25.48	7.01	12	2	.12	.5	1.8	KAO	1.0X		84	5
2001	MAY	24	1021	42.34	19	23.77	155	14.55	29.49	21	2	.11	1.0	1.3	DEP	1.6X		130	2
2001	MAY	24	1212	19.79	19	44.30	155	27.06	19.13	11	3	.11	1.3	1.8	KEA	1.4X		183	15
2001	MAY	24	1616	45.47	19	12.28	155	27.44	0.60	22	5	.12	.3	.3	LSW	1.3X		115	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	MAY	24	1626	12.06	19	12.71	155	28.46	4.80	41	9	.10	.3	1.1	LSWF	2.6X		93	6
2001	MAY	24	1928	6.51	19	20.98	155	12.72	8.21	28	2	.13	.6	.8	SF2	1.4X		111	3
2001	MAY	25	0614	23.10	19	22.30	155	26.88	11.05	28	4	.12	.4	1.0	KAO	1.6X		46	1
2001	MAY	25	0746	31.95	19	26.68	155	23.62	10.62	29	4	.11	.4	1.0	KAO	1.4X		49	6
2001	MAY	25	0751	43.51	19	22.31	155	30.03	13.96	15	1	.08	.6	1.7	DML	1.3X		95	7
2001	MAY	25	1300	18.52	19	20.93	155	9.93	7.25	23	2	.09	.6	.7	SF3	1.5X		102	2
2001	MAY	25	1301	54.80	19	34.86	155	52.00	11.83	13	2	.14	2.6	.8	KON	1.3U		307	30
2001	MAY	26	0134	33.74	19	55.60	155	29.62	11.53	14	4	.13	1.0	.6	KEA	1.4X		230	16
2001	MAY	26	0437	36.01	19	22.92	155	32.97	6.54	13	1	.08	.6	1.6	MLO	1.2X		98	4
2001	MAY	26	0645	5.96	19	19.68	155	12.47	7.72	32	5	.10	.5	.7	SF2	1.4X		127	6
2001	MAY	26	1114	21.01	19	15.25	155	20.14	31.35	20	2	.12	1.4	2.5	DEP	1.4X		151	6
2001	MAY	26	1452	43.96	19	19.72	155	6.99	9.22	42	7	.11	.6	.5	SF4	2.3X		140	5
2001	MAY	26	1505	38.27	19	21.18	155	7.04	9.90	38	5	.10	.8	.4	SF4	2.3X		181	4
2001	MAY	26	1508	38.21	19	19.64	155	7.03	8.75	38	7	.09	.6	.5	SF4	2.2X		139	5
2001	MAY	26	1547	53.94	19	12.55	155	15.09	49.04	17	2	.11	1.9	2.2	DEP	1.4X		282	12
2001	MAY	26	1617	1.62	19	13.05	155	14.22	47.73	14	1	.08	1.7	2.8	DEP	1.4X		287	12
2001	MAY	26	1720	56.02	19	50.76	155	32.00	21.49	44	7	.09	.5	1.1	KEA	2.0X		115	11
2001	MAY	26	2047	19.50	19	19.51	155	6.88	7.09	26	2	.08	.6	.8	SF4	1.3X		145	4
2001	MAY	26	2345	35.56	19	54.80	155	20.91	10.46	16	1	.06	1.3	.4	KEA	1.6U		239	3
2001	MAY	27	0421	58.13	19	12.20	155	28.96	7.72	14		.14	.7	.9	LSW	1.3X		101	5
2001	MAY	27	0459	17.84	19	28.84	155	26.80	9.06	10	1	.10	.6	2.1	KAO	1.4X		87	6
2001	MAY	27	1120	52.13	19	19.72	155	11.30	7.59	28	2	.07	.5	.8	SF3	1.4X		120	5
2001	MAY	27	2207	45.99	19	4.14	155	22.03	36.65	4812		.10	.8	1.0	LOI	2.0X		202	14
2001	MAY	27	2209	19.35	19	4.75	155	22.16	36.24	5213		.09	.8	.9	LOI	2.7X		199	13
2001	MAY	27	2215	47.66	19	6.99	155	21.82	30.47	4411		.10	.9	1.0	LOI	2.0X		240	12
2001	MAY	28	0007	56.21	19	5.49	155	22.37	35.00	15	2	.10	1.6	2.3	LOI	1.2X		299	17
2001	MAY	28	0042	19.59	19	12.46	155	25.32	22.60	11		.06	5.0	5.3	DLS	.9X		251	4
2001	MAY	28	0505	28.42	19	41.65	156	23.66	2.52	16	5	.14	1.5	1.2	DIS	1.0U		228	58
2001	MAY	28	0512	49.06	19	54.57	155	20.70	10.14	19	1	.08	1.3	.4	KEA	1.4X		239	2
2001	MAY	28	0608	53.71	19	24.60	155	49.66	14.70	15	3	.10	1.3	.5	KON	.9X		192	18
2001	MAY	28	0724	45.76	19	55.58	155	20.73	10.56	21	3	.11	1.3	.5	KEA	1.6X		243	4
2001	MAY	28	0751	2.56	19	55.85	155	30.81	22.58	17	3	.10	1.1	2.2	KEA	1.3X		155	18
2001	MAY	28	1041	40.35	19	25.03	155	38.98	3.31	23	3	.10	.7	.6	MLO	1.8X		190	2
2001	MAY	28	1407	8.80	19	26.51	155	29.58	10.64	40	9	.10	.3	.8	KAO	1.6X		43	8
2001	MAY	28	1554	18.92	19	20.82	155	8.10	9.73	27	4	.08	.4	.5	SF4	1.5X		113	4
2001	MAY	28	1649	24.43	19	15.98	155	28.25	10.06	24	2	.13	.5	.7	LSW	1.3X		68	4
2001	MAY	29	0521	20.01	19	21.47	155	4.67	7.11	37	6	.12	.5	.5	SF5	1.8X		154	5
2001	MAY	29	1039	48.67	19	12.92	155	7.53	47.67	25	3	.10	1.5	1.8	DEP	1.4X		261	8
2001	MAY	29	1448	23.08	20	31.56	155	48.23	6.78	23	2	.13	1.5	1.2	DIS	2.3X		214	44
2001	MAY	29	1632	53.72	19	23.01	155	4.36	9.06	48	8	.11	.6	.4	SF5	3.0X		142	3
2001	MAY	29	1748	33.26	19	19.18	155	50.32	10.25	24	5	.10	.8	.4	KON	1.5X		149	7
2001	MAY	29	2350	39.64	19	21.72	155	29.44	10.22	24	4	.11	.4	1.2	KAO	1.0X		46	9
2001	MAY	29	2351	28.17	19	23.55	155	30.31	12.41	21	3	.10	.5	1.0	KAO	1.4X		48	5
2001	MAY	30	0054	4.54	19	55.35	155	20.28	10.98	33	3	.12	1.4	.4	KEA	1.9X		242	4
2001	MAY	30	0209	45.20	19	27.09	155	28.74	13.49	20	3	.09	.4	1.0	DML	1.1X		51	8

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	MAY	30	0549	17.86	19	20.24	155	7.94	7.09	30	4	.10	.5	.6	SF4	1.4X		116	5
2001	MAY	30	0638	12.81	19	20.11	155	0.04	0.03	35	7	.19	1.0	.4	SSF #	2.2X		202	10
2001	MAY	30	0658	32.91	19	54.17	155	55.59	41.47	28	5	.08	1.2	1.1	HUA	1.9X		276	26
2001	MAY	30	1008	57.98	19	55.22	155	20.28	10.46	23	4	.12	1.4	.5	KEA	1.5X		242	3
2001	MAY	30	1138	29.24	19	36.06	155	57.06	13.92	29	3	.13	2.5	1.6	KON	2.2X		243	15
2001	MAY	30	1805	23.13	19	25.77	155	27.92	12.90	18	2	.09	.5	1.6	KAO	1.2X		58	9
2001	MAY	30	1852	40.58	20	3.44	155	13.26	22.46	26	5	.10	1.4	1.9	KEA	1.9X		294	23
2001	MAY	30	1902	47.67	19	4.11	155	21.88	37.58	37	6	.09	.9	1.3	LOI	1.7X		207	19
2001	MAY	30	2137	14.29	19	25.06	155	31.29	11.16	24	3	.09	.4	.9	KAO	1.1X		65	9
2001	MAY	31	0118	54.28	19	19.06	155	15.55	8.64	32	4	.09	.5	.7	SF1	1.5X		137	6
2001	MAY	31	0124	5.40	19	58.17	155	21.22	10.81	38	5	.12	.7	.5	KEA	2.4X		181	9
2001	MAY	31	0431	21.53	19	27.73	155	51.83	12.91	26	2	.13	1.2	.4	KON	2.1X		183	22
2001	MAY	31	0802	0.36	19	21.28	155	15.53	26.64	5110		.12	.5	.6	DEPF	3.1X		67	2
2001	MAY	31	0834	50.68	19	21.76	155	15.51	25.08	28	3	.08	.8	1.0	DEP	1.4X		61	1
2001	MAY	31	0856	15.84	19	21.67	155	15.49	25.00	40	8	.10	.7	.7	DEP	1.7X		98	2
2001	MAY	31	0856	49.58	19	21.52	155	15.32	24.87	26	2	.07	.8	1.0	DEP	1.3X		102	2
2001	MAY	31	1022	43.08	19	20.16	155	12.29	8.31	33	5	.10	.5	.6	SF3	1.3X		119	5
2001	MAY	31	1515	24.04	19	0.65	155	20.34	32.73	32	4	.11	1.1	1.7	LOI	1.8X		224	26
2001	MAY	31	2126	37.82	19	5.07	155	22.13	34.36	4710		.10	.8	1.1	LOIF	3.3X		199	17
2001	MAY	31	2146	1.20	19	5.03	155	22.06	33.96	32	2	.11	1.3	1.3	LOI	1.8X		233	17
2001	MAY	31	2155	9.18	19	12.16	155	32.36	8.18	23	3	.11	.6	.8	LSW	1.3X		184	7
2001	MAY	31	2302	22.56	19	4.47	155	21.81	36.64	36	4	.09	.9	1.6	LOI	1.8X		202	19
2001	JUN	1	0042	50.41	19	4.31	155	21.85	38.97	30	5	.08	.9	1.6	LOI	1.6X		208	19
2001	JUN	1	0152	1.94	19	3.93	155	21.85	39.18	25	2	.07	1.3	1.9	LOI	1.5X		240	20
2001	JUN	1	0241	52.25	19	3.78	155	21.95	38.15	23	4	.08	1.3	1.9	LOI	1.5X		270	20
2001	JUN	1	1504	0.03	19	5.41	155	22.55	34.59	22	3	.07	.9	1.8	LOI	1.4X		253	17
2001	JUN	1	1528	22.18	19	19.79	155	7.28	8.91	36	6	.08	.5	.4	SF4	2.3X		132	5
2001	JUN	1	1550	17.22	19	4.40	155	22.28	36.74	29	3	.08	.9	2.0	LOI	1.5X		205	19
2001	JUN	1	2016	42.29	19	15.64	155	27.14	10.76	44	7	.13	.4	.4	LSWF	3.8U		138	5
2001	JUN	1	2130	36.40	19	23.26	155	26.90	9.73	20	3	.10	.4	.8	KAO	1.2X		55	8
2001	JUN	2	0352	33.57	18	34.59	156	12.24	6.88	37	7	.11	7.4	9.4	DISF-	2.9X		324	72
2001	JUN	2	0417	9.16	19	3.87	155	21.88	37.84	31	5	.10	1.0	1.4	LOI	1.5X		208	20
2001	JUN	2	0904	48.90	19	15.25	155	2.13	42.02	39	3	.11	1.1	1.2	DEP	2.1X		226	11
2001	JUN	2	1335	55.85	19	21.37	155	29.90	7.88	4310		.11	.3	1.0	KAO	1.8X		44	12
2001	JUN	2	1802	5.62	18	55.50	155	16.76	33.12	29		.13	2.1	3.7	LOI	2.0X		242	37
2001	JUN	3	0039	22.46	19	48.39	156	9.94	33.65	46	6	.13	.9	2.0	HUA	2.8X		196	37
2001	JUN	3	0516	33.55	19	58.23	155	22.35	11.15	18	5	.11	.8	.5	KEA	1.7X		196	9
2001	JUN	3	1124	53.16	19	20.53	155	11.69	9.64	39	4	.12	.5	.5	SF3	2.2X		101	4
2001	JUN	3	1213	36.73	19	19.50	155	7.02	8.70	37	7	.09	.5	.4	SF4	1.9X		141	4
2001	JUN	3	1358	43.51	19	28.15	155	24.75	10.64	30	7	.10	.4	.9	KAO	1.6X		59	4
2001	JUN	3	1510	3.80	19	34.13	155	54.98	31.27	32	6	.11	.7	1.2	KON	1.9X		158	9
2001	JUN	3	1901	34.07	19	22.40	155	30.15	10.04	21	4	.07	.4	1.5	KAO	1.3X		50	13
2001	JUN	4	0032	27.13	19	13.14	155	22.68	34.62	40	9	.11	.6	.9	DEP	1.7X		157	3
2001	JUN	4	0545	15.49	19	5.44	155	22.28	33.54	35	6	.09	1.0	1.1	LOI	1.5X		200	17
2001	JUN	4	0621	44.08	19	12.82	155	41.91	1.54	30	5	.17	.5	.9	LSW	1.5X		88	10

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUN	4	0632	39.42	19	22.48	155	30.01	9.26	25	3	.07	.3	1.4	KAO	1.4X		48	12
2001	JUN	4	1533	2.64	19	26.56	155	22.34	11.47	32	6	.10	.3	.6	KAO	1.4X		64	3
2001	JUN	4	1841	28.89	19	1.72	155	25.49	40.13	34	6	.09	1.0	1.2	DLS	1.5X		211	23
2001	JUN	5	0032	53.88	19	13.72	155	22.99	36.53	4010		.11	.7	1.0	DEP	1.9X		153	2
2001	JUN	5	0155	39.69	19	30.49	155	18.32	23.81	4814		.11	.4	.7	DEP	2.3X		58	6
2001	JUN	5	0335	52.73	20	52.24	155	38.10	4.27	40	7	.15	2.4	2.3	DIS	2.9X		253	67
2001	JUN	5	1525	31.34	19	19.56	155	14.83	7.75	37	7	.13	.5	.7	SF1	1.5X		170	5
2001	JUN	5	1610	40.50	19	20.38	155	11.45	9.80	33	5	.11	.5	.6	SF3	1.3X		119	4
2001	JUN	5	1721	10.71	19	18.60	155	16.24	7.43	36	5	.11	.4	.6	SF1	1.4X		141	3
2001	JUN	6	0027	54.85	19	22.19	155	1.96	7.87	37	8	.11	.7	.5	SF5	1.5X		168	5
2001	JUN	6	0720	6.02	19	30.68	155	27.69	5.34	22	6	.08	.3	1.0	MLO	1.3X		101	2
2001	JUN	6	0833	23.78	20	4.35	155	45.68	36.11	23	4	.09	1.0	1.2	KOH	1.9X		137	6
2001	JUN	6	1029	24.54	19	4.62	155	21.98	36.55	27	2	.08	.9	2.0	LOI	1.5X		201	18
2001	JUN	6	1126	36.12	19	34.30	155	55.39	11.22	19	3	.13	1.3	.6	KON	1.2X		218	9
2001	JUN	6	1217	16.98	19	25.21	155	19.49	5.77	18	3	.08	.5	1.2	KAO	1.2X		108	3
2001	JUN	6	1431	29.74	19	17.18	155	20.88	8.21	20	1	.08	.6	1.0	SWR	1.3X		158	4
2001	JUN	6	1450	37.88	19	19.00	155	13.08	9.34	32	3	.12	.6	.8	SF2	1.6X		138	7
2001	JUN	6	1513	44.93	19	25.30	155	28.10	10.41	19	2	.13	.6	1.5	KAO	1.1X		92	9
2001	JUN	6	1657	7.61	19	4.66	155	22.16	35.56	47	9	.10	.9	1.3	LOI	2.5X		200	18
2001	JUN	6	1807	16.97	19	20.15	155	10.66	9.30	35	4	.09	.5	.6	SF3	1.7X		109	4
2001	JUN	6	1807	27.17	19	19.64	155	10.77	8.09	15	3	.05	.6	1.4	SF3	1.6X		128	5
2001	JUN	6	2138	43.37	19	22.39	155	15.36	25.46	36	8	.09	.7	.6	DEP	1.7X		91	1
2001	JUN	7	0134	48.43	19	5.89	155	29.59	29.08	44	9	.08	.6	1.2	DLS	2.2X		175	17
2001	JUN	7	0141	30.57	19	25.62	155	15.68	1.74	9	2	.13	.6	.8	SNCL	1.6X		185	3
2001	JUN	7	0825	2.72	19	19.34	155	11.54	7.46	23	3	.08	.5	1.1	SF3	1.2X		128	6
2001	JUN	7	0930	34.65	19	7.89	155	28.57	42.34	29	9	.08	1.0	1.1	DLS	1.8X		221	14
2001	JUN	8	0437	21.25	19	19.64	155	8.77	7.23	36	6	.09	.4	.6	SF4	1.3X		97	4
2001	JUN	8	0745	50.89	19	12.52	155	42.82	0.54	4311		.15	.4	.3	LSW	2.4X		84	8
2001	JUN	8	0910	3.55	19	19.24	155	7.91	7.50	29	4	.12	.6	.8	SF4	1.4X		127	3
2001	JUN	9	0012	19.33	19	9.59	155	19.14	48.86	23	4	.11	1.1	1.9	LOI	1.6X		189	12
2001	JUN	9	0411	21.89	19	16.43	155	30.22	9.43	30	1	.09	.4	.6	LSW	1.3X		69	3
2001	JUN	9	0550	28.04	19	22.24	155	30.07	12.70	23	6	.10	.4	1.0	KAO	1.4X		49	7
2001	JUN	9	0638	51.22	19	22.90	155	14.52	3.26	32	6	.10	.3	.3	SEC	1.5X		88	3
2001	JUN	9	0831	14.27	19	46.38	155	2.75	41.85	47	7	.11	.8	1.2	HIL	2.2X		206	8
2001	JUN	9	1005	23.21	19	25.21	155	17.11	13.24	13	4	.10	1.6	1.3	DEPL	1.6X		169	1
2001	JUN	9	1349	58.92	19	18.87	155	14.86	6.50	25	2	.12	.7	.9	SF1	1.4X		140	5
2001	JUN	9	1904	59.57	19	22.83	155	20.58	32.84	5010		.12	.5	.8	DML	2.7X		45	6
2001	JUN	10	0024	55.49	19	19.78	155	7.92	9.06	4311		.10	.5	.4	SF4	2.3X		124	4
2001	JUN	10	0038	39.56	19	25.15	155	16.51	1.38	12	2	.10	.3	.3	SNCL	1.6X		156	1
2001	JUN	10	0309	12.40	19	25.62	155	17.09	3.62	12	2	.08	.9	.3	SNCL	1.7X		163	1
2001	JUN	10	0850	45.20	19	24.56	155	17.97	8.76	15	2	.10	.8	1.5	INTL	1.8X		152	5
2001	JUN	10	1439	37.35	19	12.47	155	16.64	51.53	37	5	.11	.9	1.2	DEP	1.8X		180	11
2001	JUN	10	1815	26.03	19	25.51	155	30.52	11.70	31	3	.09	.4	.9	KAO	1.6X		45	9
2001	JUN	10	1940	21.57	19	20.93	155	5.74	9.87	36	5	.10	.7	.4	SF4	2.2X		147	6
2001	JUN	10	2156	7.47	19	25.74	155	15.86	2.54	16	3	.12	.4	.5	SNCL	1.7X		167	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUN	11	2230	2.46	20	38.17	156	4.84	10.19	32	4	.15	1.3	2.5	DIS	2.3X		199	20
2001	JUN	11	2343	1.50	19	26.27	155	29.79	13.25	21	3	.12	.5	.8	DML	1.4X		42	6
2001	JUN	12	0212	48.43	19	23.77	155	49.78	13.41	30	6	.12	.5	.4	KON	1.9X		121	14
2001	JUN	12	0629	33.53	20	15.96	155	41.20	40.29	34	3	.11	1.1	2.1	KOH	2.3X		185	55
2001	JUN	12	0634	27.01	19	20.07	155	10.06	6.89	27	3	.08	.5	.8	SF3	1.2X		113	4
2001	JUN	12	0955	46.49	19	22.66	155	30.11	10.62	30	4	.08	.3	1.1	KAO	1.4X		48	13
2001	JUN	12	1031	55.70	19	23.71	155	21.71	10.57	36	7	.10	.4	.6	KAO	1.6X		41	7
2001	JUN	12	2212	14.21	19	19.84	155	13.09	7.77	28	4	.11	.6	.7	SF2	1.2X		187	5
2001	JUN	12	2227	44.88	19	49.09	155	51.26	12.23	4710		.11	.5	.7	HUA	2.3X		151	15
2001	JUN	13	0053	19.90	19	25.25	155	18.36	7.76	25	5	.13	.5	.8	INTL	1.6X		120	1
2001	JUN	13	0919	53.32	19	20.10	155	13.18	4.76	27	4	.11	.5	1.6	SSF	1.2X		130	5
2001	JUN	13	1451	27.43	19	25.45	155	19.89	5.02	38	7	.11	.3	1.1	KAO	1.8X		46	4
2001	JUN	13	2121	24.83	19	29.20	155	27.44	11.34	32	6	.10	.4	.7	KAO	1.3X		48	5
2001	JUN	14	0252	43.38	19	12.12	155	41.07	5.41	30	3	.15	.6	1.6	LSW	1.6X		156	10
2001	JUN	14	0421	26.15	19	25.21	155	15.55	12.30	17	2	.14	1.4	1.1	INTL	1.7X		163	2
2001	JUN	14	0443	35.15	20	17.38	155	40.03	41.46	38	3	.11	1.1	1.3	KOH	1.8X		189	21
2001	JUN	14	0833	32.76	19	22.46	155	2.49	6.19	28	3	.12	.6	.7	SF5	1.5X		161	4
2001	JUN	14	0924	31.25	19	55.13	155	31.39	32.86	27	4	.13	.9	1.8	KEA	1.6X		148	19
2001	JUN	14	1822	23.20	19	24.83	155	16.71	9.41	24	5	.11	.7	.6	INTL	1.6X		138	1
2001	JUN	14	2021	4.26	19	24.51	155	26.93	11.12	37	8	.10	.4	.7	KAO	1.3X		34	4
2001	JUN	14	2027	2.35	19	3.93	155	21.58	37.07	38	8	.10	1.0	1.2	LOI	1.7X		204	20
2001	JUN	14	2135	27.67	19	3.37	155	21.23	37.99	32	4	.11	1.1	1.6	LOI	1.5X		207	21
2001	JUN	15	0155	53.16	19	3.63	155	21.83	38.21	4511		.11	.9	1.1	LOI	1.9X		205	20
2001	JUN	15	1530	26.31	19	4.09	155	21.65	39.76	39	6	.09	1.0	1.3	LOI	1.8X		209	19
2001	JUN	15	2357	5.15	19	25.80	155	29.56	11.96	17	2	.11	.5	1.4	KAO	1.2X		72	6
2001	JUN	16	0004	49.33	19	28.12	155	26.96	8.16	32	5	.10	.3	.8	KAO	1.7X		48	7
2001	JUN	16	0044	54.45	19	17.58	155	38.87	14.37	21	3	.12	.5	.7	DLS	1.4X		81	7
2001	JUN	16	0355	17.67	19	4.46	155	22.23	36.63	21	2	.08	1.3	1.9	LOI	1.6X		242	18
2001	JUN	16	0620	4.42	19	4.08	155	22.19	38.11	19	3	.09	1.4	1.9	LOI	1.5X		270	19
2001	JUN	16	0659	8.56	19	19.29	155	12.60	7.80	26		.10	.6	1.0	SF2	1.4X		133	6
2001	JUN	16	0700	51.80	19	18.89	155	12.73	6.06	25		.09	.6	1.3	SF2	1.3X		139	8
2001	JUN	16	1417	0.43	19	9.53	155	36.30	11.39	19	1	.12	.6	1.6	LSW	1.5X		125	15
2001	JUN	16	2226	25.24	19	20.53	155	48.58	12.23	23	2	.08	.8	.4	KON	1.8X		138	11
2001	JUN	17	0022	2.63	19	16.70	155	25.69	9.53	19	1	.10	.5	.9	LSW	1.6X		103	5
2001	JUN	17	0033	43.96	19	20.33	155	19.47	2.63	14	1	.07	.4	1.2	SWR	1.4X		113	5
2001	JUN	17	0408	51.22	19	25.31	155	30.00	11.26	23	3	.08	.4	1.0	KAO	1.5X		43	7
2001	JUN	17	1813	7.98	19	19.68	155	25.13	10.60	23	1	.11	.5	1.1	KAO	1.5X		63	3
2001	JUN	17	2059	38.09	19	48.30	156	9.91	35.97	50	8	.11	.8	1.2	HUA	3.2X		196	22
2001	JUN	17	2123	50.95	19	14.11	155	32.88	7.15	30	2	.15	.5	.9	LSW	1.9X		116	5
2001	JUN	18	0111	9.99	19	23.44	155	14.62	3.80	33	5	.11	.3	.4	SEC	2.3X		82	2
2001	JUN	18	0112	44.38	19	23.04	155	14.78	3.47	19	4	.05	.3	.4	SEC	1.9X		85	2
2001	JUN	18	0216	17.93	19	12.66	155	33.29	7.81	15	1	.10	.6	.9	LSW	1.1X		126	7
2001	JUN	18	0638	36.07	19	25.91	155	27.46	7.76	18	2	.10	.4	1.5	KAO	1.5X		56	6
2001	JUN	18	0639	49.19	19	24.49	155	29.36	11.04	21	3	.11	.5	.9	KAO	1.7X		48	5
2001	JUN	18	1041	49.77	18	49.03	155	10.88	10.80	13	1	.10	7.0	9.8	LOI -	1.4X		315	52

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUN	18	1627	50.80	19	22.28	154	58.87	9.56	25	3	.09	1.0	.6	LER	1.8X		219	5
2001	JUN	18	2008	42.80	19	47.79	155	32.91	24.49	21	4	.09	.8	1.5	KEA	2.0X		175	10
2001	JUN	19	1558	13.61	19	23.09	155	15.39	31.94	47	9	.11	.5	.8	DEP	2.9X		82	2
2001	JUN	20	0303	2.09	19	19.20	155	13.37	9.20	35	3	.12	.6	.7	SF2	1.6X		136	6
2001	JUN	20	0452	57.75	19	28.01	155	26.74	9.48	28	8	.10	.4	.9	KAO	1.3X		54	7
2001	JUN	20	0649	56.33	19	27.81	155	15.84	26.13	34	6	.11	.6	.9	DEP	1.5X		73	1
2001	JUN	20	0714	58.45	19	21.44	155	30.43	12.75	15	2	.11	.7	1.3	KAO	1.1X		55	5
2001	JUN	20	1358	30.50	19	36.94	155	18.11	12.31	16	4	.10	.9	.6	KEA	1.1X		179	16
2001	JUN	20	1438	17.78	19	18.36	155	14.65	4.61	21	2	.13	.9	3.0	SSF	1.3X		196	6
2001	JUN	20	1710	54.03	19	12.70	155	24.67	45.94	17	3	.11	1.4	1.6	DEP	1.4X		219	3
2001	JUN	20	1910	22.46	19	45.83	155	20.16	13.49	20	7	.13	.9	.5	KEA	1.6X		185	13
2001	JUN	20	2045	8.10	19	45.80	155	20.04	13.83	18	4	.10	.8	.4	KEA	1.4X		168	13
2001	JUN	21	1002	0.25	19	28.89	155	26.55	9.39	29	6	.12	.4	.9	KAO	1.6X		61	6
2001	JUN	21	1642	48.08	19	20.28	155	11.48	9.09	31	2	.12	.6	.8	SF3	1.5X		113	4
2001	JUN	21	2302	26.59	19	25.24	155	28.30	9.63	37	5	.09	.3	.7	KAO	1.7X		43	5
2001	JUN	22	0147	33.66	19	20.67	155	13.20	9.12	40	7	.13	.4	.6	SF2	1.9X		107	4
2001	JUN	22	0948	13.93	19	29.46	155	27.29	5.97	21	4	.08	.4	1.7	KAO	1.6X		92	5
2001	JUN	22	1110	44.20	19	22.39	155	15.20	12.17	37	9	.10	.4	.5	INT	1.7X		91	4
2001	JUN	22	1850	59.15	19	15.71	155	31.75	8.92	35	4	.15	.5	.9	LSW	2.1X		93	3
2001	JUN	22	2137	49.48	19	26.09	155	24.07	9.36	23	4	.08	.3	.9	KAO	1.4X		53	7
2001	JUN	23	0238	18.10	19	22.71	155	1.75	8.03	28	1	.13	1.0	.6	SF5	1.4X		164	5
2001	JUN	23	0643	10.79	19	19.79	155	10.28	7.88	27	3	.10	.6	.8	SF3	1.4X		111	4
2001	JUN	23	0903	17.26	19	18.55	155	14.91	5.99	24	1	.10	.7	1.3	SF1	1.4X		191	5
2001	JUN	23	1322	35.76	19	17.75	155	12.89	7.30	20	1	.10	.9	1.6	SF2	1.0X		159	9
2001	JUN	23	1609	43.03	19	57.45	155	29.93	30.71	50	8	.10	.6	1.3	KEA	3.0X		161	18
2001	JUN	23	1614	12.80	19	24.79	155	19.24	5.77	19	5	.09	.4	1.3	KAO	1.2X		65	3
2001	JUN	23	2106	29.71	19	12.50	155	32.83	9.30	27	3	.14	.5	1.0	LSW	1.6X		129	7
2001	JUN	23	2157	15.27	19	18.94	155	13.01	8.92	35	3	.12	.5	.7	SF2	1.9X		125	7
2001	JUN	23	2157	58.75	19	17.73	155	12.69	9.01	25	2	.08	.7	1.0	SF2	1.4X		159	8
2001	JUN	23	2251	11.83	19	18.54	155	12.64	8.63	24		.14	.6	1.3	SF2	1.5X		145	8
2001	JUN	23	2252	41.28	19	18.70	155	12.93	9.27	45	9	.13	.4	.5	SF2	2.2X		128	7
2001	JUN	23	2256	10.23	19	17.51	155	12.62	9.19	29	4	.09	.6	.9	SF2	1.7X		170	8
2001	JUN	23	2315	56.59	19	17.28	155	12.49	9.18	23	2	.09	.8	1.2	SF2	1.6X		174	8
2001	JUN	24	0025	2.74	19	19.64	155	7.85	7.83	24	2	.09	.6	.5	SF4	1.4X		146	4
2001	JUN	24	0042	17.40	19	17.71	155	12.67	9.86	25	2	.07	.5	.6	SF2	1.5X		159	8
2001	JUN	24	0056	12.64	19	17.47	155	12.62	9.26	17	1	.09	.8	1.5	SF2	1.3X		184	8
2001	JUN	24	0434	17.11	19	18.88	155	14.99	10.28	22	2	.11	.7	.8	SF1	1.5X		141	7
2001	JUN	24	0524	8.66	19	19.30	155	10.66	7.46	25	2	.10	.6	.8	SF3	1.5X		122	5
2001	JUN	24	0529	56.71	19	20.63	155	11.08	9.53	33	3	.11	.5	.5	SF3	2.1X		106	3
2001	JUN	24	0610	26.72	19	18.20	155	12.93	9.28	34	4	.11	.6	.7	SF2	1.7X		150	8
2001	JUN	24	0829	58.22	19	24.54	155	19.57	9.37	19	2	.10	.6	1.5	KAO	1.2X		98	4
2001	JUN	24	1041	12.50	19	24.87	155	30.89	12.48	17	2	.06	.5	1.4	KAO	1.2X		50	4
2001	JUN	25	0526	47.62	19	27.19	155	27.82	9.99	18	4	.06	.4	1.2	KAO	1.0X		54	9
2001	JUN	25	1335	12.20	19	25.80	155	28.12	9.62	25	3	.09	.4	.9	KAO	1.5X		40	6
2001	JUN	25	2035	9.86	19	19.97	155	11.39	5.03	25	1	.16	.7	2.2	SF3	1.2X		126	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUN	26	0821	4.66	19	19.18	155	8.84	9.12	33	6	.11	.6	.6	SF4	1.9X		100	4
2001	JUN	26	0950	54.30	19	26.50	155	22.46	9.95	27	4	.12	.4	.9	KAO	1.3X		48	4
2001	JUN	26	1010	47.38	19	22.89	155	26.60	9.88	16	1	.08	.5	.9	KAO	1.1U		74	2
2001	JUN	26	1250	49.20	19	44.29	155	44.96	19.21	14	2	.08	1.5	2.8	HUA	1.5X		237	11
2001	JUN	27	0721	57.51	19	12.73	155	41.30	9.05	21	2	.14	.6	2.4	LSW	1.5X		114	16
2001	JUN	27	0842	41.84	19	12.86	155	29.44	7.59	15	2	.09	.6	1.1	LSW	1.3X		139	4
2001	JUN	27	1335	29.33	19	23.93	155	26.62	10.65	20	3	.11	.5	1.1	KAO	1.3X		48	3
2001	JUN	27	1646	31.04	19	23.84	155	26.62	10.41	33	3	.09	.4	.6	KAO	1.5X		37	3
2001	JUN	27	1839	42.15	19	24.88	155	28.25	8.67	16	1	.12	.6	1.2	KAO	1.3X		65	5
2001	JUN	27	2134	59.13	19	15.69	155	31.60	7.70	28	3	.14	.5	1.0	LSW	1.7X		132	3
2001	JUN	27	2206	10.55	19	21.86	155	3.92	6.68	24	2	.11	.6	.8	SF5	1.4X		165	5
2001	JUN	27	2213	56.07	19	19.64	155	7.20	10.37	24	1	.09	.9	.3	SF4	1.4X		166	4
2001	JUN	28	0140	14.79	19	34.47	155	38.82	11.46	16	3	.14	.8	1.2	MLO	1.1X		116	8
2001	JUN	28	2200	41.76	19	21.95	155	0.55	7.95	31	2	.14	.8	.5	SF5	1.8X		179	7
2001	JUN	29	0026	50.79	19	18.59	155	13.69	8.22	25	1	.11	.6	1.0	SF2	1.2X		145	8
2001	JUN	29	0621	30.82	19	15.01	155	37.46	9.17	21	4	.13	.5	1.8	LSW	1.2X		96	13
2001	JUN	29	0835	16.96	19	58.62	155	32.52	20.27	18	3	.10	1.1	2.6	KEA	1.8X		169	23
2001	JUN	29	1445	21.75	19	18.77	155	13.97	9.62	44	6	.13	.4	.5	SF2	2.1X		129	6
2001	JUN	30	1305	17.94	19	17.44	155	47.21	3.48	22	3	.13	.5	2.0	KON	1.5X		83	9
2001	JUN	30	1322	27.95	19	41.71	156	4.93	10.69	41	4	.13	1.1	.4	HUA	2.4X		191	8
2001	JUN	30	1408	10.68	19	24.59	155	20.85	7.68	15	2	.10	.5	2.0	KAO	1.6X		73	6
2001	JUN	30	1451	4.89	19	47.70	156	4.27	3.87	16	2	.12	1.6	1.7	HUA	1.4X		288	27
2001	JUN	30	1901	48.36	19	29.39	155	26.68	8.05	24	6	.09	.3	.9	KAO	1.3X		69	5
2001	JUN	30	2255	53.78	19	20.22	155	8.39	5.82	30	2	.12	.6	1.0	SF4	1.6X		105	4
2001	JUL	1	0332	17.62	19	20.70	155	53.31	13.96	26	6	.11	1.0	.4	KON	1.4X		199	9
2001	JUL	1	0616	58.94	19	25.61	155	29.36	10.80	20	2	.10	.4	.9	KAO	1.1X		69	6
2001	JUL	1	1432	49.18	19	26.96	155	24.34	12.89	20	4	.11	.6	1.1	KAO	1.2X		60	6
2001	JUL	1	1517	1.61	19	40.41	155	8.43	14.22	23	3	.09	.7	.7	HIL	1.2X		175	12
2001	JUL	1	2117	11.28	19	24.59	155	16.88	1.50	11	2	.10	.4	.3	SNC	1.2X		84	1
2001	JUL	1	2304	16.87	19	26.81	155	28.98	9.26	33	4	.11	.3	.9	KAO	1.6X		46	8
2001	JUL	2	0406	45.67	19	20.33	155	12.78	32.06	41	8	.12	.6	.8	DEP	2.0X		119	4
2001	JUL	2	0437	1.79	19	29.44	156	1.60	11.19	14	2	.12	1.9	.7	KON	1.3X		306	11
2001	JUL	2	0722	25.47	19	28.89	155	26.23	10.18	35	6	.12	.4	.8	KAO	1.6X		48	5
2001	JUL	2	0902	12.34	19	28.02	155	14.34	31.12	4710		.12	.5	.9	DEP	2.0X		53	4
2001	JUL	2	1231	32.28	19	20.04	155	8.36	6.69	40	8	.13	.5	.6	SF4	2.1X		111	5
2001	JUL	2	1958	21.04	19	32.40	155	36.87	11.16	21	6	.16	.8	.7	MLO	1.1X		174	3
2001	JUL	2	2258	34.02	19	20.05	155	11.45	7.71	34	5	.11	.5	.8	SF3	1.7X		116	5
2001	JUL	3	0906	12.59	19	52.08	155	38.18	32.58	33	6	.12	.9	1.3	KEA	2.0X		218	21
2001	JUL	3	1538	1.52	19	32.39	155	36.56	9.43	38	5	.12	.5	.6	MLO	2.1X		134	6
2001	JUL	3	1622	8.91	20	49.67	155	57.68	15.99	31	8	.14	2.2	5.8	DIS #	2.2X		247	34
2001	JUL	3	1717	29.16	20	0.07	155	38.66	10.99	22	3	.11	.9	.9	KOH	1.5X		156	20
2001	JUL	3	1828	42.20	19	20.16	155	7.62	7.35	4710		.11	.4	.6	SF4	2.2X		123	5
2001	JUL	3	1926	4.36	19	19.81	155	8.64	9.48	34	7	.10	.4	.4	SF4	1.6X		105	5
2001	JUL	3	1926	51.03	19	19.03	155	8.83	7.03	38	8	.10	.5	.7	SF4	1.8X		106	3
2001	JUL	4	0406	11.09	19	41.23	155	13.40	30.24	36	5	.11	.6	1.6	KEA	1.8X		114	20

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUL	4	0601	42.66	19	27.53	155	36.49	10.64	29	7	.12	.4	.6	MLOT	1.1X		58	1
2001	JUL	4	0958	22.39	19	31.89	155	30.77	51.91	16	1	.09	1.7	2.3	DMLT	2.2X		136	5
2001	JUL	4	1332	43.28	19	24.66	155	29.49	8.46	37	6	.09	.3	.8	KAO	1.7X		50	5
2001	JUL	4	1626	19.57	19	11.08	155	33.18	3.85	28	3	.14	.6	2.8	LSW	1.6X		139	9
2001	JUL	4	2022	23.49	19	19.35	155	13.07	8.04	32	3	.13	.6	.9	SF2	1.5X		133	6
2001	JUL	5	0225	50.82	19	24.88	155	38.76	3.60	24	5	.11	.6	.5	MLO	1.2X		127	2
2001	JUL	5	1309	59.31	19	16.86	155	31.30	6.19	40	7	.15	.3	1.2	LSW	1.7X		58	4
2001	JUL	5	1711	40.26	19	25.09	155	19.44	5.12	23	6	.10	.4	1.1	KAO	1.2X		104	3
2001	JUL	5	1900	59.97	20	9.71	155	28.20	0.00	46	9	.12	1.0	.3	KEA #	2.2X		192	33
2001	JUL	5	1940	37.14	19	20.17	155	11.59	7.04	37	6	.11	.5	.6	SF3	1.3X		123	5
2001	JUL	5	2022	54.61	19	13.04	155	31.09	6.42	32	4	.13	.6	.9	LSW	1.7X		132	4
2001	JUL	6	0451	56.19	18	54.66	155	14.02	9.62	29	4	.11	1.2	.7	LOI	1.9X		247	40
2001	JUL	6	0718	26.36	19	29.52	155	27.05	4.92	24	5	.11	.4	2.1	KAO	1.4X		98	5
2001	JUL	6	0725	13.96	19	20.65	155	13.03	7.25	32	5	.09	.4	.5	SF2	1.2X		115	4
2001	JUL	6	1057	21.62	19	24.22	155	15.58	1.64	39	9	.12	.2	.3	SEC	2.4X		57	2
2001	JUL	6	1618	2.77	19	30.27	155	26.56	5.93	22	6	.09	.3	1.0	MLO	1.2X		119	4
2001	JUL	7	0117	11.30	19	21.12	155	4.64	6.54	32	4	.12	.6	.8	SF5	1.5X		157	6
2001	JUL	7	0339	31.27	19	20.45	155	7.43	7.55	39	8	.11	.5	.6	SF4	2.0X		125	5
2001	JUL	7	0850	1.97	19	19.68	155	7.80	8.45	39	8	.09	.4	.4	SF4	2.1X		121	4
2001	JUL	7	0935	31.77	19	57.13	155	17.69	10.58	22	3	.12	1.5	.5	KEA	1.5X		251	9
2001	JUL	7	1032	40.93	19	29.78	155	17.41	31.82	42	8	.09	.7	.9	DEP	2.3X		125	4
2001	JUL	7	1338	35.94	19	22.34	155	29.71	9.86	42	7	.11	.3	.7	KAO	2.1X		38	4
2001	JUL	7	1437	51.14	19	26.34	155	53.91	12.07	28	6	.17	.8	.5	KON	1.5X		169	6
2001	JUL	8	0517	45.50	19	34.70	155	37.62	14.10	27	4	.13	.7	.4	DML	1.5X		99	6
2001	JUL	8	0733	57.52	18	55.49	155	16.68	33.14	23	2	.12	1.8	2.4	LOI	1.8X		250	37
2001	JUL	8	1030	36.29	19	21.85	155	20.56	27.82	30	9	.12	.6	1.1	DEP	1.5X		50	6
2001	JUL	9	0342	27.93	19	20.25	155	12.05	8.50	35	6	.11	.5	.6	SF3	1.2X		117	5
2001	JUL	9	0945	56.19	19	17.76	155	0.46	42.39	32	7	.11	.9	.8	DEP	1.9X		261	13
2001	JUL	9	1007	52.86	19	32.15	155	41.79	7.01	20	5	.13	.6	2.1	MLO	1.2X		148	11
2001	JUL	9	1548	58.93	19	24.29	155	29.46	9.70	25	4	.06	.4	.9	KAO	1.3X		71	5
2001	JUL	9	2222	41.23	19	21.65	155	28.63	11.12	31	4	.10	.4	.7	KAO	1.3X		44	2
2001	JUL	9	2229	59.42	19	25.71	155	19.78	5.14	22	4	.10	.4	1.1	KAO	1.4X		73	4
2001	JUL	10	0246	8.19	19	25.51	155	2.72	6.13	31	1	.16	.6	1.0	SF5	1.7X		134	3
2001	JUL	10	0542	2.54	19	14.93	155	26.31	5.43	19	2	.12	.5	1.5	LSW	1.1X		148	4
2001	JUL	10	0905	26.65	19	26.06	155	18.98	6.40	17	3	.11	.6	1.1	INT	1.5X		97	3
2001	JUL	10	1536	21.21	19	16.84	155	15.33	9.97	4410		.13	.4	.6	SF1	1.8X		148	6
2001	JUL	10	1703	43.05	19	24.27	155	25.23	9.23	22	1	.12	.5	1.2	KAO	1.3X		36	5
2001	JUL	10	2240	8.98	19	21.12	155	8.23	7.49	31	2	.09	.5	.6	SF4	1.1X		107	3
2001	JUL	10	2313	4.17	19	29.43	154	53.35	0.08	35	6	.16	.3	.4	SLE	2.1X		108	5
2001	JUL	11	0040	36.95	19	24.25	155	17.28	1.75	17	5	.08	.3	.2	SSC	1.1X		60	1
2001	JUL	11	0138	9.71	19	20.23	155	10.82	8.21	36	8	.10	.5	.5	SF3	1.4X		109	4
2001	JUL	11	0254	22.81	19	23.89	155	19.03	8.65	12	3	.11	1.0	1.4	KAOL	1.4X		85	4
2001	JUL	11	0315	15.15	18	53.01	155	4.90	35.08	39	9	.12	1.1	2.4	LOI	2.3X		261	45
2001	JUL	11	0428	56.11	19	20.65	155	7.03	8.71	25	3	.09	.6	.5	SF4	1.4X		135	5
2001	JUL	11	0441	48.01	19	20.83	155	6.83	7.80	30	4	.09	.4	.5	SF4	1.7X		133	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUL	11	1107	57.46	19	18.68	155	12.90	7.75	35	5	.11	.5	.7	SF2	1.6X		143	7
2001	JUL	11	1226	0.47	19	11.34	155	28.67	7.97	30	3	.12	.7	1.2	LSW	1.6X		149	7
2001	JUL	11	1239	22.03	19	11.72	155	28.80	8.15	32	2	.13	.7	.9	LSW	1.8X		188	7
2001	JUL	11	1253	6.91	19	22.42	155	30.19	10.66	20	4	.05	.3	.9	KAO	1.5X		50	5
2001	JUL	11	1413	54.00	20	0.20	155	32.20	1.74	16	6	.15	.7	.5	KEA	1.7X		182	24
2001	JUL	11	1936	50.51	19	19.64	155	8.85	6.70	39	8	.09	.4	.7	SF4	1.8X		95	5
2001	JUL	11	2330	30.59	19	18.82	155	13.15	8.29	36	7	.09	.5	.6	SF2	1.5X		155	7
2001	JUL	11	2333	51.96	19	18.77	155	13.26	9.20	27	4	.11	.6	.8	SF2	1.1X		142	7
2001	JUL	12	0451	30.52	19	19.77	154	44.68	51.39	33	4	.11	1.8	1.1	LER	1.5X		284	18
2001	JUL	12	0811	41.72	19	48.51	155	34.20	21.93	20	2	.10	.9	2.3	KEA	1.4X		184	24
2001	JUL	12	0833	40.77	19	9.78	155	22.33	49.07	25	5	.10	1.2	1.7	LOI	1.5X		220	9
2001	JUL	12	1049	53.96	19	27.98	155	27.94	9.42	27	6	.10	.3	1.2	KAO	1.4X		64	7
2001	JUL	12	1319	3.26	19	25.24	155	19.37	5.75	23	6	.10	.4	1.1	KAO	1.4X		77	3
2001	JUL	12	1531	46.80	18	53.05	155	14.53	12.35	34	3	.10	1.7	2.5	LOI	2.1X		259	43
2001	JUL	13	0318	35.89	19	21.40	155	4.47	7.33	32	2	.12	.6	.5	SF5	1.6X		165	5
2001	JUL	13	2021	17.28	19	19.16	155	15.28	6.92	35	6	.12	.5	.9	SF1	1.3X		136	6
2001	JUL	13	2339	2.70	19	34.66	155	57.62	11.08	23	3	.13	.8	.4	KON	1.5X		170	11
2001	JUL	14	0017	30.81	19	13.52	155	33.03	11.06	31	7	.12	.5	.9	LSW	1.1X		167	6
2001	JUL	14	0422	59.84	19	21.85	155	14.40	13.18	41	8	.11	.5	.4	DEP	1.6X		100	3
2001	JUL	14	0527	53.12	19	9.07	155	32.03	44.62	33	4	.15	1.3	1.8	DLST			209	12
2001	JUL	14	0655	7.24	19	21.76	155	5.08	7.16	27	2	.10	.6	.7	SF5	1.3X		152	5
2001	JUL	14	1956	51.62	19	25.10	155	19.40	6.48	25	8	.09	.4	1.0	KAO	1.1X		69	3
2001	JUL	14	2251	8.64	19	19.16	155	15.65	6.26	26	4	.09	.6	1.0	SF1	1.4X		145	6
2001	JUL	15	0207	32.96	19	19.78	155	10.14	7.64	29	7	.10	.5	.8	SF3	1.4X		109	4
2001	JUL	15	0434	20.94	19	1.88	155	12.55	17.01	40	7	.12	1.1	11.7	LOI -	2.1X		226	30
2001	JUL	15	0716	0.15	19	10.99	155	6.76	52.36	36	6	.13	1.1	1.6	DEP	1.9X		209	12
2001	JUL	15	0732	54.24	18	53.28	155	32.44	39.47	23	3	.09	1.9	1.6	DLS	1.5X		281	17
2001	JUL	15	0907	3.51	19	8.96	155	36.53	0.61	22	2	.12	.6	.8	LSW	1.3X		126	16
2001	JUL	16	0456	27.99	19	19.67	155	9.74	8.11	34	5	.10	.5	.6	SF3	1.4X		106	4
2001	JUL	16	0858	58.52	19	16.82	155	27.26	7.07	41	5	.14	.4	.8	LSW	2.5X		86	6
2001	JUL	16	1421	53.84	19	16.46	155	27.74	12.28	18	1	.10	.7	1.4	LSW	1.5X		118	5
2001	JUL	16	2319	26.97	19	12.64	155	33.13	5.51	19		.14	.6	1.5	LSW	1.5X		128	7
2001	JUL	17	0230	8.75	19	24.21	155	16.94	15.90	36	8	.08	.4	.4	DEP	1.6X		41	1
2001	JUL	17	0720	45.69	19	18.33	155	21.84	4.24	18	1	.11	.5	1.5	SWR	1.1X		112	4
2001	JUL	17	0807	1.71	19	20.31	155	10.85	7.53	25	3	.08	.5	.8	SF3	1.4X		116	6
2001	JUL	17	0813	41.88	19	20.65	155	10.97	7.73	34	6	.10	.5	.6	SF3	1.8X		111	3
2001	JUL	17	1604	52.51	19	42.08	155	10.25	42.57	23	5	.10	1.0	1.5	KEA	1.8X		129	15
2001	JUL	17	1737	59.84	19	29.21	154	54.27	2.07	11	2	.08	.3	.6	SLE	2.2X		105	4
2001	JUL	17	1803	30.65	19	28.71	154	52.92	5.78	37	6	.14	.6	.7	LERF	2.4X		104	4
2001	JUL	18	0414	16.52	19	16.62	155	28.68	8.43	36	3	.15	.5	.7	LSW	1.6X		95	4
2001	JUL	18	0451	6.27	19	30.98	155	37.00	11.09	41	7	.12	.5	.4	MLO	2.1X		84	4
2001	JUL	18	0556	5.24	19	53.05	155	38.41	24.59	23	7	.11	.6	1.8	KEA	1.5X		127	22
2001	JUL	18	1139	21.11	19	29.11	155	26.67	9.59	20	6	.10	.4	1.1	KAO	1.3X		94	6
2001	JUL	19	0150	39.08	19	24.59	155	15.57	16.91	41	8	.10	.3	.4	DEP	1.9X		55	2
2001	JUL	19	0505	1.03	19	51.72	155	47.62	17.03	14	2	.12	1.7	5.5	HUA	1.5X		252	20

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUL	19	0643	42.98	19	17.69	155	16.34	6.67	39	3	.14	.5	.8	SF1	2.0X		139	4
2001	JUL	19	1820	28.21	19	16.85	154	58.74	43.96	30	7	.14	2.2	1.0	LER	1.3X		316	27
2001	JUL	19	2305	19.76	19	19.71	155	8.89	7.17	33	4	.11	.5	.8	SF4	1.6X		99	5
2001	JUL	20	0745	51.86	19	25.64	154	59.77	3.60	22		.10	.7	.6	SLE	1.6X		107	2
2001	JUL	20	0921	48.81	19	51.98	155	21.52	32.44	40	9	.10	.6	1.0	KEA	1.8X		88	3
2001	JUL	20	1143	24.17	19	24.46	155	16.55	16.86	20	3	.11	1.4	1.4	DEP	.9X		208	4
2001	JUL	20	1405	15.65	19	23.30	155	29.77	10.26	25	4	.06	.4	.8	KAO	1.5X		45	4
2001	JUL	20	1642	22.49	19	24.01	155	15.91	2.36	17	5	.09	.3	.4	SEC	1.2X		114	2
2001	JUL	20	1800	14.32	19	16.69	155	30.39	9.39	24	2	.09	.5	1.1	LSW	1.5X		82	3
2001	JUL	20	1809	40.20	19	13.40	155	34.30	9.95	20	2	.11	.5	1.1	LSW	1.3X		117	8
2001	JUL	21	0126	45.42	19	28.33	155	27.05	9.53	38	7	.12	.3	.8	KAO	1.7X		47	7
2001	JUL	21	0801	7.85	18	53.65	155	15.84	12.54	42	6	.11	1.0	1.3	LOI	3.4X		265	41
2001	JUL	21	1255	36.11	20	53.84	156	12.99	27.83	17	4	.09	1.9	1.6	DIS	2.3X		275	21
2001	JUL	21	1354	12.26	19	20.12	155	24.61	9.85	19	2	.08	.5	1.0	SWR	.9X		64	2
2001	JUL	21	1400	52.70	19	13.69	155	32.22	6.92	25	2	.18	.8	1.5	LSW	1.5X		167	4
2001	JUL	21	1843	8.82	19	10.46	155	23.15	41.32	34	5	.10	1.1	1.2	DEP	1.7X		203	7
2001	JUL	21	1852	6.87	19	37.19	155	57.19	7.72	18	1	.13	.8	.8	KON	1.8X		173	14
2001	JUL	21	1929	41.28	18	51.35	155	14.19	11.39	20	2	.07	1.9	1.4	LOI	2.1X		276	46
2001	JUL	21	2228	25.92	19	12.74	155	27.88	0.02	34	7	.15	.6	.3	LSW #	1.5X		144	7
2001	JUL	21	2332	8.14	18	55.18	155	15.96	11.27	17		.11	3.0	.9	LOI	1.3X		249	38
2001	JUL	21	2338	41.24	19	11.91	155	24.86	14.68	17	3	.11	1.5	.5	DEP	1.4X		259	5
2001	JUL	21	2340	5.98	18	53.60	155	14.01	10.42	32	5	.12	1.3	.7	LOI	2.2X		256	42
2001	JUL	21	2342	14.76	18	55.46	155	15.81	14.40	25		.10	2.11	4.4	LOI -	2.0X		248	38
2001	JUL	21	2344	35.90	18	54.17	155	14.94	10.57	9		.07	3.6	1.3	LOI	1.5U		267	40
2001	JUL	21	2345	22.02	18	55.12	155	15.83	12.34	27	2	.10	1.7	1.1	LOI	1.8X		249	38
2001	JUL	21	2346	16.97	18	54.17	155	15.11	11.87	28		.10	2.1	1.2	LOI	2.0X		253	40
2001	JUL	21	2350	40.02	18	52.67	155	12.56	39.27	24	4	.12	1.3	2.1	LOI	1.8X		274	45
2001	JUL	22	0352	26.87	18	50.99	155	11.73	27.67	25	4	.10	1.5	4.2	LOI	2.2X		293	48
2001	JUL	22	0425	6.65	18	52.20	155	11.65	9.93	37	7	.13	1.2	.8	LOI	2.7X		275	46
2001	JUL	22	0557	37.30	18	54.92	155	15.06	12.98	14		.10	2.0	1.9	LOI	1.6X		251	39
2001	JUL	22	0557	54.55	18	51.96	155	14.06	11.77	35	4	.12	1.2	1.6	LOI	2.4X		256	45
2001	JUL	22	0627	52.24	18	55.90	155	12.95	12.70	16		.08	2.6	1.2	LOI	1.5X		265	39
2001	JUL	22	0632	10.47	18	55.49	155	14.59	10.66	22		.09	1.9	.8	LOI	1.9X		250	38
2001	JUL	22	0710	28.46	19	33.12	155	57.72	13.34	18	2	.13	2.1	.6	KON	1.1X		270	8
2001	JUL	22	1033	2.03	19	29.00	156	4.69	41.08	23	4	.12	1.6	1.9	KON	1.2U		271	17
2001	JUL	22	1041	30.90	18	51.87	155	13.25	11.38	27	5	.11	1.2	1.3	LOI	1.8X		285	46
2001	JUL	22	2012	15.65	19	0.93	155	27.83	38.35	20	2	.07	1.4	2.2	DLS	1.3X		234	22
2001	JUL	23	0204	36.59	18	53.06	155	14.45	11.07	38	6	.11	1.1	.8	LOI	2.6X		267	43
2001	JUL	23	0350	23.82	20	6.54	155	45.38	25.18	34	5	.11	1.0	1.2	KOH	1.9X		162	3
2001	JUL	23	0355	53.51	19	19.22	155	13.52	0.49	25	4	.11	.3	.6	SSF	1.1X		135	6
2001	JUL	23	0414	17.13	19	19.13	155	15.30	7.92	27	2	.11	.5	.9	SF1	1.4X		136	6
2001	JUL	23	0432	10.33	19	14.84	155	25.09	9.81	14	1	.14	1.0	.8	LSW	1.1U		139	2
2001	JUL	23	0456	18.00	19	11.66	155	21.86	52.04	17	4	.11	1.9	1.6	DEP	1.9X		239	13
2001	JUL	23	0531	8.57	19	20.46	155	10.88	7.97	27	2	.12	.6	.7	SF3	1.4X		114	3
2001	JUL	23	0706	41.81	19	12.42	155	27.21	2.60	18	2	.14	.8	1.4	LSW	1.0X		165	7

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUL	23	0716	58.57	19	18.96	155	13.10	6.13	26		.13	.6	1.4	SF2	1.2X		138	7
2001	JUL	23	0913	23.23	18	54.03	155	12.88	11.38	19	2	.11	2.6	1.0	LOI	1.8X		270	42
2001	JUL	23	1236	28.33	19	18.30	155	13.27	0.01	30	6	.12	.4	.3	SSF #	1.2X		149	8
2001	JUL	23	1257	0.45	19	20.00	155	10.22	7.80	41	8	.14	.5	.7	SF3	1.8X		107	4
2001	JUL	23	1736	17.43	18	55.37	155	12.74	8.20	14	1	.14	2.3	1.0	LOI	1.5X		294	40
2001	JUL	24	1509	26.50	19	23.33	155	15.16	11.45	38	8	.11	.4	.5	INT	1.5X		81	2
2001	JUL	24	1644	43.30	19	16.38	155	31.58	7.90	22	3	.13	.5	1.4	LSW	1.2X		111	4
2001	JUL	24	1711	23.38	19	18.96	154	58.86	39.71	22	4	.09	1.7	1.3	LER	1.5X		239	17
2001	JUL	24	1944	10.70	19	26.18	154	57.21	3.14	12	2	.09	1.6	.6	SLE	2.3X		157	3
2001	JUL	24	2336	3.60	19	14.72	155	35.00	9.05	16	2	.09	.5	1.4	LSW	1.3X		151	9
2001	JUL	25	0003	23.51	19	26.94	155	25.14	6.34	16	1	.10	.5	2.2	KAO	1.0X		53	6
2001	JUL	25	0036	23.16	19	20.62	155	55.43	16.82	19	4	.06	1.2	1.3	KON	1.3X		215	10
2001	JUL	25	2023	51.60	19	58.41	155	25.20	15.19	11	1	.13	9.7	2.9	KEA	1.1X		298	12
2001	JUL	25	2144	25.39	19	59.11	155	30.44	10.67	22	4	.12	.9	.5	KEA	1.2X		181	20
2001	JUL	26	0052	57.35	19	23.88	155	25.57	10.14	26	4	.11	.4	.9	KAO	1.2X		46	4
2001	JUL	26	0215	1.37	19	37.35	155	10.60	11.87	29	8	.13	.4	.7	KEA	1.0X		90	18
2001	JUL	26	0251	32.95	19	16.49	155	12.02	11.56	39	8	.13	.6	.4	SF3	1.4X		183	7
2001	JUL	26	0258	36.42	19	16.37	155	11.67	11.73	27	3	.12	.9	.4	SF3	1.3X		184	7
2001	JUL	26	0303	39.16	19	16.69	155	11.26	11.72	29	4	.12	.8	.4	SF3	1.2X		182	6
2001	JUL	26	0453	55.12	19	20.05	155	6.02	8.05	31	5	.10	.5	.5	SF4	1.2X		162	6
2001	JUL	26	0559	14.54	19	24.05	155	30.04	9.43	22	7	.09	.4	.9	KAO	1.2X		74	5
2001	JUL	26	0817	31.83	19	14.18	155	29.40	35.34	21	5	.10	.9	1.4	DLS	1.4X		165	2
2001	JUL	26	0833	40.70	19	19.73	155	15.24	11.15	30	5	.13	.6	.6	SF1	1.2X		130	4
2001	JUL	26	0919	41.27	18	49.52	155	12.00	11.37	21	3	.11	4.1	6.4	LOI	1.8X		283	50
2001	JUL	26	1343	15.24	19	22.33	155	5.45	8.56	40	8	.11	.4	.5	SF4	1.9X		137	4
2001	JUL	26	1448	44.44	19	22.43	155	29.86	9.35	36	5	.11	.3	.6	KAO	1.5X		37	4
2001	JUL	26	1511	3.51	19	20.53	155	4.42	8.32	22	1	.11	.7	.5	SF5	1.2X		166	7
2001	JUL	26	1608	2.97	19	13.06	155	26.98	35.26	4611		.09	.6	.8	DLS	1.7X		146	6
2001	JUL	27	0014	57.06	19	20.61	155	5.06	6.79	40	8	.12	.5	.7	SF5	1.4X		159	7
2001	JUL	27	0157	12.03	19	24.29	155	16.85	1.27	13	5	.11	.3	.3	SSC	1.0X		92	1
2001	JUL	27	0514	0.77	19	12.12	155	21.23	49.25	43	8	.11	.9	1.0	DEP	1.5X		167	6
2001	JUL	27	1151	27.67	19	20.63	155	7.15	6.67	21	2	.09	.6	1.2	SF4	1.2X		156	5
2001	JUL	27	1950	15.37	19	17.05	155	49.47	10.76	16	1	.10	.8	.8	KON	.9U		152	5
2001	JUL	27	2128	59.79	19	25.32	155	18.87	6.08	4410		.11	.3	.6	INT	2.2X		43	2
2001	JUL	28	0639	37.84	19	19.87	155	8.22	7.62	26	4	.08	.5	.7	SF4	1.4X		110	5
2001	JUL	28	0828	26.77	19	26.63	155	17.78	15.48	40	8	.10	.5	.3	DEP	2.0X		47	2
2001	JUL	28	0930	50.05	19	55.77	155	44.00	10.05	38	8	.13	.6	.7	KOH	2.4X		126	23
2001	JUL	28	1905	18.12	19	26.60	154	54.06	6.08	18	3	.12	.6	.6	LER	1.2X		174	3
2001	JUL	29	0006	7.11	19	16.18	155	32.50	4.46	28	3	.19	.5	2.2	LSW	1.4X		88	5
2001	JUL	29	0011	36.33	20	6.02	155	33.81	35.49	5113		.11	.7	1.2	KEAF	2.6X		177	23
2001	JUL	29	0346	12.22	19	45.52	155	23.51	27.76	22	4	.08	.8	1.3	KEA	1.5X		137	7
2001	JUL	29	1907	6.46	19	21.34	155	10.15	3.39	19	5	.11	.5	.4	SER	1.4X		90	1
2001	JUL	30	0738	39.60	19	18.03	155	23.60	3.38	31	4	.11	.4	.9	SWR	1.6X		95	4
2001	JUL	30	0853	6.18	19	25.16	155	16.55	1.90	12	4	.06	.3	.4	SNCL	1.5X		178	1
2001	JUL	30	0936	10.93	19	20.03	155	8.21	8.16	37	6	.10	.5	.8	SF4	1.4X		114	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JUL	30	1105	51.38	19	18.26	155	23.58	5.52	40	9	.14	.4	1.2	SWR	1.9X		94	4
2001	JUL	30	1219	39.29	19	16.98	155	17.94	30.25	28	8	.10	.8	1.2	DEP	1.3X		186	2
2001	JUL	30	1239	56.03	19	17.82	155	15.16	8.58	33	3	.10	.5	.5	SF1	1.5X		155	6
2001	JUL	30	1519	29.43	19	11.59	155	41.37	3.85	19		.15	.6	13.0	LSW -	1.3X		93	9
2001	JUL	30	1536	50.60	19	32.92	155	58.51	36.11	26	4	.08	1.6	2.0	KON	2.0X		282	33
2001	JUL	31	0203	33.01	19	22.54	155	29.76	8.26	33	4	.10	.3	.7	KAO	1.8X		47	4
2001	JUL	31	0244	20.31	19	22.51	155	29.82	8.59	37	7	.09	.3	.7	KAO	1.9X		44	4
2001	JUL	31	0614	33.53	19	19.61	155	7.37	5.45	27	4	.13	.5	1.2	SF4	1.1X		138	4
2001	JUL	31	0656	47.63	19	56.00	155	31.04	37.63	18	5	.10	1.1	1.6	KEA	1.4X		232	19
2001	JUL	31	1046	25.25	19	39.59	156	24.21	43.92	27	3	.15	1.6	4.1	DIS	2.2X		227	71
2001	JUL	31	1216	53.06	19	12.28	155	28.51	0.30	43	8	.14	.4	.3	LSW	1.7X		145	9
2001	JUL	31	1423	52.64	19	22.28	155	26.73	9.35	38	8	.11	.3	.6	KAO	1.8X		43	2
2001	JUL	31	1627	18.00	19	18.78	155	15.17	8.31	43	8	.13	.4	.6	SF1	1.7X		142	5
2001	JUL	31	2146	23.26	19	18.22	155	13.10	8.54	29	5	.10	.5	.7	SF2	1.1X		168	8
2001	JUL	31	2209	54.79	19	26.91	155	29.21	12.13	30	6	.11	.4	.8	KAO	1.5X		46	8
2001	JUL	31	2216	18.07	19	25.29	155	16.70	2.66	13	4	.08	.5	.4	SNCL	1.3X		105	1
2001	JUL	31	2218	2.07	19	27.01	155	30.58	14.02	29	4	.12	.4	.9	DML	1.4X		46	6
2001	JUL	31	2356	18.86	19	22.59	155	26.92	8.67	28	3	.11	.4	.8	KAO	1.1X		42	1
2001	AUG	1	1011	12.33	19	47.87	155	35.04	16.45	28	5	.11	.7	1.6	KEA	1.5X		105	13
2001	AUG	1	1247	53.61	19	21.27	155	3.22	6.44	21	6	.14	.8	1.1	SF5	1.2X		243	6
2001	AUG	1	1348	13.89	19	20.91	155	4.91	6.18	28	2	.10	.6	.8	SF5	1.5X		208	7
2001	AUG	1	1843	16.09	19	27.10	155	51.98	14.31	21	3	.12	1.2	.4	KON	1.5X		191	7
2001	AUG	1	1844	4.24	19	24.96	155	19.50	4.17	21	5	.09	.5	1.3	KAO	1.3X		99	3
2001	AUG	1	2030	53.13	19	23.13	155	14.51	3.87	42	9	.12	.3	.4	SEC	2.4X		86	3
2001	AUG	2	0517	31.32	19	22.02	155	27.97	8.18	19	2	.12	.5	1.0	KAO	.9X		71	1
2001	AUG	2	0814	30.21	19	22.48	155	29.80	8.91	29	4	.10	.4	.9	KAO	1.1X		47	4
2001	AUG	2	0946	47.01	19	33.52	155	41.91	7.70	15	1	.12	.8	2.1	MLO	1.1X		126	12
2001	AUG	2	0959	42.09	19	27.02	155	28.81	8.73	18	4	.13	.6	2.0	KAO	1.0U		76	8
2001	AUG	2	1619	25.09	19	20.19	155	8.19	8.75	38	6	.09	.6	.6	SF4	1.6X		114	5
2001	AUG	2	2124	57.38	19	19.56	156	10.88	48.44	20	5	.08	2.6	2.0	KON	1.3X		303	33
2001	AUG	3	0013	15.62	19	12.35	155	21.56	43.84	27	7	.10	1.0	1.2	DEP	1.3X		237	6
2001	AUG	3	0206	9.33	19	22.65	155	28.71	8.86	21	4	.07	.4	.6	KAO	1.4X		63	2
2001	AUG	3	1209	3.89	18	57.11	155	12.89	12.33	17		.14	2.6	1.0	LOI	1.8X		258	37
2001	AUG	3	1241	14.11	19	58.61	155	26.56	39.63	18	3	.09	1.3	1.6	KEA	1.6X		251	14
2001	AUG	3	1758	31.22	19	33.87	155	57.67	12.48	28	5	.14	1.4	.5	KON	1.7X		239	10
2001	AUG	3	2226	23.33	19	19.47	155	15.52	7.38	42	8	.11	.4	.6	SF1	1.5X		123	5
2001	AUG	4	0509	45.67	19	20.32	155	12.94	6.97	23	1	.10	.6	.9	SF2	1.2X		125	4
2001	AUG	4	0820	18.13	19	23.09	155	25.72	9.83	25	2	.10	.4	1.0	KAO	1.0X		55	4
2001	AUG	4	1219	50.66	19	23.33	155	15.13	3.30	18	4	.10	.3	.4	SEC	1.4X		102	2
2001	AUG	4	1223	5.49	19	20.39	155	8.33	8.86	38	7	.13	.8	.5	SF4	1.5X		169	4
2001	AUG	4	1400	50.41	19	28.14	155	44.39	10.04	18	3	.11	.9	1.8	KON	1.0X		152	13
2001	AUG	4	1403	23.73	19	10.03	155	33.36	7.17	16		.11	1.0	1.6	LSW	1.0X		203	11
2001	AUG	4	1614	24.49	19	17.07	155	28.42	10.64	14	2	.15	.6	1.4	LSW	1.2X		96	5
2001	AUG	5	0021	21.82	19	18.75	155	26.12	10.37	4811		.13	.4	.6	LSW	2.0X		59	6
2001	AUG	5	0504	2.20	19	20.89	155	10.20	7.28	39	6	.11	.5	.7	SF3	1.4X		96	2

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	AUG	5	0620	51.94	18	57.68	155	34.51	39.57	33	8	.10	.9	1.2	DLS	2.0X		233	10
2001	AUG	5	0723	1.12	19	15.50	155	3.23	44.59	36	3	.11	1.1	1.6	DEP	1.7X		219	9
2001	AUG	5	0910	17.73	19	20.30	155	26.91	10.50	20	2	.13	.6	1.1	KAO	.9X		65	4
2001	AUG	5	1020	55.95	19	12.47	155	26.25	38.24	21	5	.13	1.3	1.5	DLS	1.1X		213	5
2001	AUG	5	1604	55.95	19	29.94	155	49.12	14.88	23	5	.14	1.0	.6	KON	1.1X		184	21
2001	AUG	5	2239	48.28	19	45.55	155	33.00	13.05	26	6	.11	.6	.4	KEA	1.6X		160	10
2001	AUG	6	0010	44.59	19	5.63	155	30.46	51.92	15		.11	3.8	7.8	DLST	1.4X		249	17
2001	AUG	6	0132	22.41	18	56.21	155	17.18	12.90	21	2	.10	1.6	1.0	LOI	1.5X		245	36
2001	AUG	6	1052	48.04	19	19.50	155	11.56	7.31	36	5	.12	.5	.8	SF3	1.3X		125	6
2001	AUG	6	1757	24.15	19	19.39	155	8.29	5.94	30	3	.10	.5	1.1	SF4	1.4X		113	4
2001	AUG	6	2221	15.65	19	59.91	155	33.55	10.82	16	2	.12	1.7	.8	KEA	1.9X		256	26
2001	AUG	7	1307	17.27	19	19.33	155	15.32	8.10	5212		.13	.4	.5	SF1	2.0X		124	4
2001	AUG	7	1614	53.33	19	27.82	155	24.34	9.82	36	7	.10	.4	.8	KAO	1.4X		35	4
2001	AUG	7	1623	38.45	19	37.07	156	7.02	40.74	40	5	.11	.9	2.2	KON	2.3X		202	47
2001	AUG	7	1646	55.01	19	25.45	155	19.07	6.72	27	6	.11	.4	1.0	KAO	1.3X		48	3
2001	AUG	8	0002	21.97	19	22.43	155	29.93	9.50	25	3	.06	.4	.8	KAO	1.2X		48	4
2001	AUG	8	0325	2.23	20	17.64	155	57.66	41.26	22	1	.12	1.8	2.6	KOH	1.9X		162	13
2001	AUG	8	1924	47.97	19	28.61	154	53.59	2.60	25	2	.17	.7	.7	SLE	1.2X		118	4
2001	AUG	8	2002	52.03	19	28.43	154	53.45	1.46	19	1	.13	.6	.8	SLE	1.8X		122	4
2001	AUG	8	2101	36.31	18	54.99	155	15.78	10.52	21	5	.16	1.5	.7	LOI	1.2X		262	34
2001	AUG	9	0031	53.77	19	10.62	155	40.55	0.88	31	3	.13	.4	.6	LSW	1.5X		82	10
2001	AUG	9	0332	16.19	19	23.76	155	16.81	3.16	17	5	.10	.4	.3	SSC	1.2X		53	0
2001	AUG	9	0743	40.40	19	26.04	155	18.41	6.71	22	5	.11	.6	1.1	INT	1.1X		87	2
2001	AUG	9	1309	13.36	19	20.10	155	7.41	6.98	40	8	.11	.4	.7	SF4	1.7X		127	5
2001	AUG	9	1316	6.74	19	11.47	155	20.15	46.80	32	5	.12	1.0	1.5	DEP	1.9X		174	9
2001	AUG	9	1316	30.34	19	10.74	155	19.99	46.65	23	4	.12	1.1	1.7	DEP	2.0X		180	10
2001	AUG	9	2008	58.40	19	11.17	155	41.08	12.29	25	6	.12	.5	.7	LSW	1.4X		96	9
2001	AUG	10	0232	18.54	19	16.81	155	28.53	10.83	39	7	.11	.3	.6	LSW	2.0X		55	4
2001	AUG	10	0808	7.05	19	17.56	155	29.31	7.06	24	5	.15	.4	1.0	LSW	1.0X		48	5
2001	AUG	10	1507	5.80	19	25.93	155	15.27	30.15	24	5	.12	1.2	1.1	DEP	1.4X		200	4
2001	AUG	10	1605	2.10	19	19.16	155	10.16	8.22	30	3	.11	.5	.8	SF3	1.6X		132	5
2001	AUG	10	2214	17.58	19	12.42	155	34.98	10.96	4610		.12	.4	.6	LSWF	4.5U		121	10
2001	AUG	10	2314	28.42	19	20.30	155	11.70	7.39	28	5	.09	.5	.6	SF3	1.2X		114	5
2001	AUG	11	0027	38.39	19	25.96	155	18.23	14.47	35	5	.13	.5	.5	DEP	1.5X		48	2
2001	AUG	11	0139	31.29	19	19.97	155	22.97	32.59	29	5	.11	.7	1.3	DEP	1.7X		76	1
2001	AUG	11	0658	52.25	19	22.98	155	14.83	5.26	18	7	.11	.6	.8	INT	1.2X		114	2
2001	AUG	11	1046	55.04	19	22.17	155	14.30	3.23	20	1	.14	.6	.4	SEC	.8X		134	2
2001	AUG	11	1413	54.53	19	29.87	155	25.15	4.57	16	4	.14	.5	1.4	KAO	1.3X		122	3
2001	AUG	12	0103	43.00	19	24.17	155	2.83	3.09	31	3	.10	.6	.5	SME	1.8X		140	2
2001	AUG	12	0828	13.71	19	42.65	156	3.72	29.29	26	7	.12	1.5	2.2	HUA	1.6X		285	24
2001	AUG	12	2143	26.15	19	22.83	155	51.67	12.54	21	4	.10	1.0	.5	KON	1.3X		178	13
2001	AUG	12	2153	11.12	19	45.40	155	24.75	22.85	30	5	.10	.7	1.4	KEA	1.4X		86	5
2001	AUG	13	1236	43.11	19	12.34	155	27.46	15.51	20	4	.10	1.1	.5	DLS	1.2X		204	7
2001	AUG	13	1243	19.06	19	20.63	155	12.90	7.73	37	8	.11	.4	.6	SF2	1.5X		108	4
2001	AUG	13	1700	5.33	19	16.08	155	14.27	6.65	26	6	.09	.7	1.1	SF2	1.3X		205	8
2001	AUG	13	2049	8.65	19	22.72	155	12.27	6.87	35	5	.12	.4	.5	SF3	1.5X		127	1
2001	AUG	13	2050	17.20	19	25.68	155	29.59	9.06	30	6	.09	.3	.8	KAO	1.3X		39	7
2001	AUG	14	0031	51.88	19	21.13	155	4.37	5.85	35	6	.15	.6	1.0	SF5	1.4X		169	6
2001	AUG	14	0144	48.39	19	25.43	155	19.20	7.95	26	7	.11	.4	1.0	KAO	1.1X		47	3
2001	AUG	14	1452	4.89	19	20.23	155	17.16	31.82	42	9	.11	.7	1.0	DEP	1.8X		104	0
2001	AUG	14	1820	9.64	19	21.57	155	27.48	10.50	38	5	.13	.3	.7	KAO	1.2X		42	2
2001	AUG	14	1838	6.93	19	19.45	155	9.09	6.54	35	5	.09	.4	.6	SF4	1.0X		88	4
2001	AUG	14	2029	26.13	19	23.63	155	29.65	9.52	3310		.09	.3	.8	KAO	1.0X		45	4
2001	AUG	14	2030	27.35	19	11.85	155	27.63	1.11	35	8	.14	.3	.4	LSW	1.4X		113	4
2001	AUG	14	2325	19.93	18	57.07	155	35.26	43.02	35	7	.09	.8	1.0	DLS	1.8X		242	9
2001	AUG	14	2332	35.67	19	11.50	155	15.42	46.01	18	4	.13	1.7	1.9	DEP	1.1X		255	16
2001	AUG	15	0543	3.24	19	20.27	155	10.08	6.46	30	4	.17	.7	.9	SF3	1.2X		110	3
2001	AUG	15	0811	40.08	19	25.64	155	18.96	7.01	27	6	.10	.4	.8	INT	1.6X		87	2
2001	AUG	15	1023	5.22	19	31.47	155	43.88	2.96	17	2	.12	.7	1.8	KON	1.3X		85	4
2001	AUG	15	1420	31.11	19	13.17	155	29.88	41.95	35	8	.11	.7	1.3	DLS	1.5X		74	4
2001	AUG	15	1742	11.28	19	22.92	155	14.25	3.69	33	7	.10	.3	.4	SEC	1.9X		116	2
2001	AUG	16	0729	54.19	19	19.99	155	7.58	5.70	40	9	.12	.4	1.0	SF4	1.6X		124	5
2001	AUG	16	0852	40.50	19	15.79	155	12.15	9.52	21	4	.12	1.0	1.1	SF3	1.2X		266	12
2001	AUG	16	0921	2.89	19	19.28	155	15.29	7.14	36	6	.12	.4	.7	SF1	1.4X		126	4
2001	AUG	16	0938	1.71	19	26.51	154	56.54	5.95	29	3	.11	.8	.6	LER	1.6X		151	3
2001	AUG	16	1140	47.79	19	21.70	155	8.23	7.73	4813		.12	.5	.6	SF4	1.8X		106	3
2001	AUG	16	1557	59.52	19	49.07	155	21.85	28.64	26	5	.13	1.1	1.6	KEA	1.3X		147	8
2001	AUG	16	1943	50.80	20	2.23	155	24.64	11.66	37	6	.12	.9	.6	KEAF	2.1X		184	18
2001	AUG	16	1958	54.75	19	14.46	155	28.61	13.02	35	6	.11	.4	.7	DLS	1.7X		80	3
2001	AUG	17	0042	1.21	19	20.51	155	6.02	8.04	29	3	.10	.6	.8	SF4	1.5X		148	6
2001	AUG	17	0108	54.68	19	20.18	155	7.89	6.81	28	4	.11	.5	.8	SF4	1.3X		122	5
2001	AUG	17	0115	5.22	19	15.75	155	24.31	36.16	32	5	.10	.7	1.2	DEP	1.4X		84	3
2001	AUG	17	2117	36.29	19	19.93	155	6.21	7.29	23	2	.11	.6	1.0	SF4	1.1X		160	6
2001	AUG	17	2247	6.94	19	13.77	155	7.36	43.38	30	5	.12	1.2	1.1	DEP	1.4X		229	18
2001	AUG	18	0523	7.57	19	25.24	155	51.21	13.87	25	4	.13	1.1	.4	KON	1.7X		176	17
2001	AUG	18	0700	20.18	19	19.75	155	13.49	4.58	24	1	.09	.5	2.3	SSF	1.1X		136	5
2001	AUG	18	1407	5.75	19	57.64	155	32.05	35.72	24	6	.08	.9	1.0	KEA	1.7X		244	21
2001	AUG	18	2029	14.70	19	21.33	155	10.86	6.88	22	2	.10	.6	.7	SF3	1.2X		154	2
2001	AUG	19	0016	26.68	20	2.55	155	55.26	1.23	19	1	.14	.8	1.1	KOH	1.5X		158	16
2001	AUG	19	1146	30.43	19	19.09	155	13.91	8.24	33	5	.12	.6	.7	SF2	1.4X		171	6
2001	AUG	19	1408	35.65	19	36.33	155	18.30	11.80	17	3	.10	.8	1.0	KEA	1.1X		176	15
2001	AUG	19	1449	59.38	19	21.38	155	5.89	7.31	4211		.13	.6	.5	SF4	2.0X		175	5
2001	AUG	19	1634	52.27	19	16.04	154	57.12	4.94	22	6	.11	1.2	1.0	SLE	1.5X		250	23
2001	AUG	19	1728	18.06	19	24.75	155	38.32	3.14	24	6	.15	.6	.5	MLO	1.6X		102	1
2001	AUG	19	1948	13.00	19	47.38	155	33.25	12.69	29	5	.10	.7	.5	KEA	1.4X		173	22
2001	AUG	20	0728	50.89	19	19.04	155	13.14	6.70	28	4	.12	.5	1.0	SF2	1.0X		128	7
2001	AUG	20	1332	17.95	19	20.27	155	12.33	7.77	39	6	.11	.4	.5	SF2	1.5X		165	5
2001	AUG	20	1508	57.94	19	21.03	155	6.35	7.50	26	4	.08	.9	.7	SF4	1.2X		196	5
2001	AUG	20	1524	46.02	19	29.57	155	58.89	12.00	21	2	.10	1.6	.6	KON	1.7X		270	26
2001	AUG	21	0106	33.66	19	21.50	155	2.19	6.42	34	4	.12	.7	.8	SF5	1.4X		191	6

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	AUG	21	0146	41.08	19	18.63	155	13.33	8.74	37	8	.11	.4	.6	SF2	1.3X		187	7
2001	AUG	21	0346	56.24	19	21.57	155	18.72	1.42	18	4	.07	.3	.6	SWR	1.1X		100	5
2001	AUG	21	0530	7.84	19	21.29	155	20.29	3.16	22	4	.09	.4	.9	SWR	.9X		79	6
2001	AUG	21	1118	58.86	19	27.95	155	24.24	10.66	25	6	.09	.5	1.0	KAO	1.4X		70	4
2001	AUG	21	1715	47.56	19	22.55	155	30.15	10.28	30	6	.08	.3	.6	KAO	1.3X		85	4
2001	AUG	22	0055	28.87	19	12.66	155	36.84	8.05	22	1	.12	.5	1.1	LSW	1.2X		139	13
2001	AUG	22	0200	6.40	19	23.49	155	30.60	9.59	31	7	.09	.3	.8	KAO	1.1X		50	6
2001	AUG	22	0238	43.85	19	48.92	155	24.20	23.10	4210		.10	.5	1.1	KEA	1.6X		144	7
2001	AUG	22	2131	22.02	19	21.17	155	13.11	8.23	31	6	.13	.5	.4	SF2	1.0X		166	3
2001	AUG	22	2202	34.45	19	25.75	155	29.24	9.13	5015		.09	.2	.6	KAO	1.9X		39	7
2001	AUG	23	0100	56.13	19	27.61	155	25.73	8.27	19	4	.12	.4	1.2	KAO	1.1X		84	6
2001	AUG	23	0128	19.91	19	17.14	155	14.85	8.63	33	9	.11	.6	.5	SF1	1.2X		191	7
2001	AUG	23	0714	7.65	19	21.25	155	4.05	6.55	30		.11	.8	.6	SF5	1.4X		180	6
2001	AUG	23	1040	16.03	19	14.01	155	26.26	7.75	23	1	.11	.4	1.0	LSW	1.3X		118	4
2001	AUG	23	1530	34.57	19	30.88	155	43.03	6.75	17	3	.12	.7	1.8	KON	1.2X		101	5
2001	AUG	23	1941	10.45	19	10.69	155	28.23	35.78	29	9	.10	.9	1.3	DLS	1.2X		112	2
2001	AUG	23	2128	46.50	19	22.78	155	17.13	2.14	15	5	.07	.3	.2	SSC	1.0X		89	1
2001	AUG	23	2219	50.66	19	19.57	155	6.46	1.75	25	4	.14	.9	.7	SSF	.9X		211	7
2001	AUG	24	0003	22.46	19	19.59	155	6.32	5.01	24	2	.11	.8	2.2	SF4	1.0X		177	7
2001	AUG	24	0041	53.58	19	24.43	155	49.80	13.86	33	5	.13	.9	.3	KON	2.3X		195	13
2001	AUG	24	0538	2.71	18	50.89	156	5.59	42.71	43	9	.11	1.1	1.6	DIS	2.3X		302	47
2001	AUG	24	0910	34.58	19	22.52	155	26.84	9.67	25	2	.10	.4	.8	KAO	1.3X		37	1
2001	AUG	24	1011	49.92	19	16.59	155	28.04	14.63	23	3	.15	.5	.8	DLS	1.0X		58	5
2001	AUG	24	1039	57.55	19	47.85	155	18.39	27.37	28	6	.12	.8	1.5	KEA	1.7X		129	11
2001	AUG	24	1116	42.75	19	17.36	155	28.14	10.92	5113		.14	.3	.4	LSW	2.5X		51	5
2001	AUG	24	1300	25.88	19	48.43	156	3.91	11.29	20	6	.11	1.8	1.1	HUA	1.5X		286	46
2001	AUG	24	2356	0.09	19	11.25	155	28.51	35.09	3810		.08	.6	.9	DLS	1.5X		97	3
2001	AUG	25	0016	47.96	19	22.22	155	13.06	3.50	20	6	.08	.6	.4	SER	1.6X		140	1
2001	AUG	25	0128	32.69	19	25.07	155	16.50	1.80	14	4	.08	.6	.3	SNCL	1.3X		154	1
2001	AUG	25	0158	35.12	19	25.24	155	16.58	9.75	16	5	.13	1.0	.8	INTL	1.9X		156	1
2001	AUG	25	0158	58.42	19	21.73	155	27.95	9.19	31	2	.09	.3	.7	KAO	1.5X		41	2
2001	AUG	25	0215	23.59	19	18.56	155	14.28	9.64	40	5	.11	.4	.4	SF2	1.8X		165	8
2001	AUG	25	0219	59.64	19	19.19	155	13.92	0.86	15	3	.11	.7	.7	SSF	.9X		223	6
2001	AUG	25	0756	23.20	19	19.06	155	15.61	6.30	26	4	.12	.6	.8	SF1	1.0X		171	4
2001	AUG	25	1520	48.88	19	18.89	155	14.29	8.49	31	6	.13	.6	.9	SF2	1.0X		180	6
2001	AUG	25	2317	11.84	19	20.35	155	7.61	9.76	32	6	.08	.6	.6	SF4	1.2X		197	5
2001	AUG	26	0114	2.29	19	29.42	155	28.14	6.80	3911		.11	.3	1.0	KAO	1.7X		53	5
2001	AUG	26	0402	45.69	19	11.36	155	15.25	53.21	28	5	.14	1.2	1.8	DEP	1.8X		189	14
2001	AUG	26	0858	7.11	19	21.86	155	13.23	32.66	3410		.11	.8	1.0	DEP	1.1X		153	1
2001	AUG	26	0941	28.69	19	30.24	155	29.33	4.75	21	5	.13	.4	2.1	MLO	.9X		69	4
2001	AUG	26	1348	8.92	19	14.50	155	32.83	10.38	26	5	.13	.4	1.4	LSW	1.0X		111	5
2001	AUG	26	1407	54.40	19	19.17	155	29.12	9.34	28	6	.12	.4	1.0	KAO	1.0X		59	7
2001	AUG	26	1409	13.97	19	21.57	155	18.43	4.25	17	4	.08	.4	1.1	SWR	.9X		71	3
2001	AUG	26	1937	12.31	19	22.46	155	17.10	2.91	26	7	.11	.3	.4	SSC	1.4X		105	2
2001	AUG	26	2348	38.90	19	14.50	155	32.43	6.44	26	5	.17	.5	1.3	LSW	1.0X		109	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	AUG	27	0259	18.19	19	22.26	155	11.61	7.74	32	5	.10	.5	.5	SF3	1.1X		141	3
2001	AUG	27	0534	46.13	19	22.51	155	13.42	5.86	33	5	.13	.4	.5	SF2	.9X		130	1
2001	AUG	27	0624	55.85	19	19.74	155	13.49	9.01	36	7	.11	.4	.6	SF2	1.4X		166	5
2001	AUG	28	0509	29.54	19	57.44	155	32.45	31.66	25	5	.11	1.3	1.4	KEA	1.3X		242	21
2001	AUG	28	0816	39.66	19	21.05	155	12.90	7.20	40	8	.12	.5	.6	SF2	1.5X		157	3
2001	AUG	28	1002	38.94	20	6.74	155	47.69	24.10	22	2	.12	1.4	2.0	KOH	1.9X		121	2
2001	AUG	28	1136	38.52	19	20.48	155	12.37	5.41	29	3	.12	.6	1.2	SF2	1.4X		164	4
2001	AUG	28	1513	24.56	19	12.08	155	20.03	45.60	35	9	.11	.8	1.2	DEP	1.5X		179	8
2001	AUG	28	2213	32.46	19	14.82	155	31.91	10.68	23	3	.14	.5	1.3	LSW	1.3X		63	3
2001	AUG	28	2219	13.40	19	21.24	155	17.61	26.06	4513		.11	.6	.7	DEP	1.5X		114	4
2001	AUG	29	0027	39.62	19	50.14	155	33.87	15.90	32	8	.09	.7	2.2	KEA	1.3X		115	24
2001	AUG	29	0333	15.19	19	11.32	155	35.10	1.17	21	2	.12	.7	1.0	LSW	1.4X		155	11
2001	AUG	29	0405	47.17	19	22.49	155	29.60	9.70	19	2	.08	.4	1.0	KAO	1.2X		46	3
2001	AUG	29	1219	14.98	19	20.07	155	12.88	7.16	42	9	.13	.5	.7	SF2	1.4X		164	5
2001	AUG	29	1326	26.21	19	12.55	155	32.35	5.72	22	2	.12	.5	1.8	LSW	1.5X		131	6
2001	AUG	30	0142	7.40	19	24.31	155	18.81	16.01	16	5	.11	1.3	1.0	DEPL	1.9X		93	3
2001	AUG	30	0639	52.32	19	12.12	155	33.67	5.74	27	6	.17	.6	3.0	LSW	1.3X		90	8
2001	AUG	30	0648	22.61	19	25.91	155	23.33	9.31	36	8	.09	.3	.8	KAO	1.6X		51	7
2001	AUG	30	0856	3.47	19	20.09	155	49.35	5.45	39	9	.13	.4	.8	KON	2.5X		125	9
2001	AUG	30	1602	8.05	19	54.40	156	27.49	10.19	45	9	.13	1.1	2.3	DIS	2.7X		224	54
2001	AUG	30	1802	52.81	19	19.74	155	6.04	6.73	23		.14	1.0	1.5	SF4	1.3X		192	7
2001	AUG	30	1902	1.00	19	49.45	155	37.08	10.97	22	4	.15	.8	.9	KEA	1.4X		101	28
2001	AUG	31	0122	4.70	19	26.92	155	29.52	11.53	25	5	.12	.4	1.1	KAO	1.5X		56	7
2001	AUG	31	0427	59.14	19	20.76	155	8.01	8.60	39	5	.09	.7	.5	SF4	2.2X		173	4
2001	AUG	31	0822	13.33	19	56.59	155	17.24	8.18	17	3	.15	1.1	.7	KEA	1.4X		202	8
2001	AUG	31	0939	27.37	19	4.12	155	23.72	27.14	22	3	.12	1.5	1.1	LOI	1.6X		230	12
2001	AUG	31	2220	34.95	19	24.71	155	14.83	13.75	18	2	.13	1.3	.6	DEPL	1.6X		214	5
2001	AUG	31	2355	42.15	19	17.90	155	13.23	0.02	31	5	.13	.5	.4	SSF #	1.1X		174	9
2001	SEP	1	0645	4.72	19	16.13	155	28.98	9.66	35	4	.13	.4	.6	LSW	1.8X		60	3
2001	SEP	1	0824	0.47	19	32.36	155	55.76	12.94	15	3	.10	1.5	.6	KON	1.5X		232	19
2001	SEP	1	1046	26.22	19	20.02	155	4.53	5.30	27	3	.09	.8	1.7	SF5	1.9X		213	8
2001	SEP	1	1223	59.78	19	22.54	155	14.54	2.99	16	5	.07	.4	.3	SEC	1.3X		135	2
2001	SEP	1	1428	44.00	19	20.28	155	6.57	6.61	29	4	.11	.9	.8	SF4	2.0X		214	6
2001	SEP	1	2046	42.53	19	19.74	155	14.39	7.26	24	1	.14	.7	1.1	SF2	1.7X		170	6
2001	SEP	2	0440	36.86	19	29.15	155	26.45	4.26	27	6	.10	.3	1.7	KAO	1.6X		96	6
2001	SEP	2	0705	49.93	19	24.90	155	16.24	1.43	20	5	.08	.4	.2	SNCL	1.7X		173	1
2001	SEP	2	0830	15.76	20	6.74	155	32.23	35.19	28	4	.12	1.2	1.9	KEA	1.7X		224	25
2001	SEP	2	1433	4.84	19	18.45	155	14.93	6.02	29	4	.16	.8	1.2	SF1	1.5X		166	5
2001	SEP	3	0134	44.85	19	27.23	155	28.04	9.62	22	3	.11	.4	1.1	KAO	1.2X		46	9
2001	SEP	3	1552	55.65	18	46.97	155	1.02	49.69	21	2	.10	2.7	3.1	LOI	2.0X		315	63
2001	SEP	3	1927	31.90	19	15.60	155	25.06	8.77	26	3	.10	.4	.8	LSW	1.1X		74	3
2001	SEP	3	1930	27.69	19	34.73	155	58.82	10.19	21	3	.11	1.4	.6	KON	1.2X		256	19
2001	SEP	3	2035	11.72	19	17.04	155	47.38	10.32	34	5	.09	.6	.5	KON	1.6X		185	15
2001	SEP	4	0135	8.04	19	23.21	155	17.01	3.12	33	8	.12	.3	.2	SSC	2.0X		70	0
2001	SEP	4	0200	37.72	19	20.96	155	12.80	10.77	38	4	.11	.6	.4	SF2	2.7X		158	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	SEP	4	0307	47.58	19	22.85	155	19.38	30.43	5415		.12	.5	.6	DMLF	3.2X		74	4
2001	SEP	4	0954	54.52	19	22.79	155	7.58	6.18	20	2	.12	.9	1.0	SF4	1.1X		178	1
2001	SEP	4	1356	38.21	19	24.88	155	38.05	2.77	3810		.13	.3	.3	MLO	2.2X		99	1
2001	SEP	4	1615	44.75	19	38.66	155	28.48	27.05	20	4	.09	.7	1.2	KEA	1.8X		116	4
2001	SEP	4	1709	1.00	19	22.47	155	2.44	8.27	22	2	.14	1.4	.5	SF5	1.1X		201	4
2001	SEP	4	1740	36.71	19	15.33	155	29.49	9.17	21	2	.16	.6	1.3	LSW	1.0X		83	1
2001	SEP	4	2146	34.36	19	52.17	155	24.02	27.84	37	9	.10	.6	1.1	KEA	1.5X		182	6
2001	SEP	4	2231	13.38	19	49.94	155	42.39	47.25	24	4	.11	1.0	1.5	KEA	1.6X		219	21
2001	SEP	5	0239	21.22	19	24.58	155	13.84	39.48	21	5	.14	1.5	1.1	DEP	1.7X		210	4
2001	SEP	5	0421	28.63	19	16.59	155	30.17	8.38	33	5	.15	.4	.9	LSW	1.6X		54	3
2001	SEP	5	0438	8.49	19	20.57	155	13.30	7.30	36	6	.11	.5	.6	SF2	1.3X		161	4
2001	SEP	5	0853	19.79	19	29.37	155	27.49	5.58	4110		.12	.3	1.2	KAO	2.0X		55	5
2001	SEP	5	0916	4.79	19	27.12	155	27.93	10.13	21	4	.09	.4	1.1	KAO	1.3X		56	9
2001	SEP	5	1143	37.19	19	18.08	155	1.33	8.69	19	4	.14	1.5	.6	SF5	1.4X		292	13
2001	SEP	5	1353	8.31	19	15.81	155	22.85	3.10	21	4	.10	.4	.9	SWR	1.2X		156	3
2001	SEP	5	1419	59.35	19	16.24	155	23.14	2.04	23	6	.11	.4	.7	SWR	1.2X		136	4
2001	SEP	5	1437	46.12	19	16.14	155	23.50	3.84	32	7	.14	.3	1.0	SWR	1.6X		127	3
2001	SEP	5	1443	15.63	19	16.61	155	23.34	1.71	19	1	.15	.4	1.1	SWR	1.3X		123	4
2001	SEP	5	1444	25.23	19	16.28	155	23.37	2.99	32	6	.15	.4	1.0	SWR	1.9X		129	4
2001	SEP	5	1603	42.17	19	54.33	155	33.87	3.53	17	4	.21	1.8	4.7	KEA	1.5X		223	18
2001	SEP	5	1641	10.98	19	22.80	155	24.10	12.81	21	2	.09	.5	.8	KAO	1.2X		86	5
2001	SEP	5	1714	54.20	19	29.63	155	25.92	6.05	20	5	.15	.4	1.4	KAO	1.5X		74	5
2001	SEP	5	1813	47.96	19	23.73	155	19.23	10.22	22	4	.12	.7	1.0	KAOL	1.5X		62	4
2001	SEP	5	1858	37.43	19	29.29	155	6.09	38.93	27	3	.11	1.2	1.7	DEP	1.4X		128	10
2001	SEP	5	2117	0.26	19	22.54	155	30.04	11.31	25	5	.12	.5	1.1	KAO	1.1X		48	4
2001	SEP	5	2140	45.76	19	30.15	155	28.09	5.02	17	3	.09	.4	1.6	MLO	1.4X		82	3
2001	SEP	5	2216	5.12	19	44.90	155	50.35	30.98	23	3	.12	1.6	1.3	HUA	1.2X		265	7
2001	SEP	5	2235	4.35	19	16.18	155	23.61	2.61	30	6	.13	.3	.7	SWR	1.3X		123	3
2001	SEP	5	2349	35.11	19	31.49	155	42.44	6.46	34	9	.14	.5	1.3	MLO	1.7X		79	6
2001	SEP	6	0059	44.08	19	15.97	155	23.18	3.00	17	2	.12	.5	1.0	SWR	1.2X		141	3
2001	SEP	6	0104	20.39	19	16.24	155	23.50	3.19	18	3	.12	.4	1.0	SWR	.9X		126	4
2001	SEP	6	0105	56.07	19	15.37	155	22.87	4.97	21	3	.11	.5	1.1	SWR	1.0X		162	3
2001	SEP	6	0122	10.80	19	16.02	155	23.10	3.32	18	4	.12	.5	1.1	SWR	1.1X		143	4
2001	SEP	6	0342	41.50	19	22.38	155	30.10	11.34	23	2	.10	.4	.9	KAO	1.3X		45	4
2001	SEP	6	0342	57.02	19	22.17	155	30.04	11.56	22	1	.10	.5	.8	KAO	1.1X		59	4
2001	SEP	6	0447	8.42	19	13.78	154	59.27	44.63	17	2	.10	2.6	2.8	DIS	1.3X		310	33
2001	SEP	6	0447	47.48	19	25.27	155	19.06	9.02	13	4	.09	.5	1.0	KAO	1.0X		124	3
2001	SEP	6	1248	1.83	19	19.40	155	14.83	6.93	37	8	.13	.4	.7	SF1	1.3X		163	5
2001	SEP	6	1524	52.01	19	22.32	155	18.63	32.14	23	5	.11	.9	1.4	DEP	1.5X		108	5
2001	SEP	6	1621	1.65	19	21.03	155	5.95	7.10	35	5	.12	.6	.7	SF4	1.7X		177	5
2001	SEP	6	2030	56.83	19	11.27	155	31.39	7.56	39	8	.15	.5	.7	LSW	1.7X		145	7
2001	SEP	6	2050	23.67	19	21.79	155	5.87	6.92	4712		.12	.4	.4	SF4	2.4X		168	4
2001	SEP	6	2051	58.86	19	23.66	155	6.22	4.69	13	1	.09	.8	.6	SME	1.5X		164	3
2001	SEP	6	2115	6.99	19	19.61	155	5.41	2.60	17	4	.08	.7	.8	SSF	1.2X		215	8
2001	SEP	6	2121	44.93	19	20.07	155	5.62	5.17	23	1	.09	1.0	2.5	SF4	1.3X		200	7

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	SEP	7	0502	24.11	19	20.34	155	12.62	6.62	23	3	.12	.7	.8	SF2	1.1X		185	4
2001	SEP	7	0601	36.75	19	11.94	155	26.83	8.14	14	2	.13	.9	.9	LSW	1.3X		155	5
2001	SEP	7	0625	37.54	19	26.88	155	29.90	11.95	17	4	.12	.6	1.3	KAO	1.0X		65	6
2001	SEP	7	0934	56.64	19	10.56	155	19.55	47.50	36	8	.11	1.0	1.3	DEPT	2.0X		217	10
2001	SEP	7	1005	44.09	19	18.76	155	15.30	8.72	37	6	.13	.5	.6	SF1	1.4X		166	4
2001	SEP	7	1039	29.81	19	27.33	155	15.99	23.76	28	4	.12	.9	1.1	DEP	1.4X		106	5
2001	SEP	7	1507	37.15	19	46.11	155	43.02	18.13	45	8	.13	.6	2.5	KEAF	3.3X		116	16
2001	SEP	7	1945	7.78	19	21.18	155	8.55	7.77	40	6	.14	.6	.5	SF4	1.7X		165	3
2001	SEP	8	0237	12.58	19	19.48	155	11.67	5.29	28	4	.13	.7	1.7	SF3	1.1X		191	6
2001	SEP	8	0312	10.37	19	23.55	155	15.37	3.30	16	5	.08	.4	.3	SEC	1.3X		139	2
2001	SEP	8	0353	4.46	19	12.64	155	27.59	1.16	27	5	.14	.4	.6	LSW	1.4X		122	6
2001	SEP	8	0523	30.50	19	19.90	155	8.71	5.48	29	2	.11	.7	1.3	SF4	1.2X		180	4
2001	SEP	8	1420	57.30	20	53.42	156	5.77	24.09	25	5	.10	1.5	2.8	DIS	2.5X		258	30
2001	SEP	8	1748	15.84	19	31.78	155	40.75	9.15	17	5	.13	.8	1.6	MLO	1.0X		170	9
2001	SEP	9	0712	12.43	19	25.65	155	28.91	11.33	22	3	.11	.5	1.0	KAO	1.6X		42	6
2001	SEP	9	0751	3.38	19	19.65	155	11.82	5.56	23	2	.11	.8	1.3	SF3	1.2X		199	6
2001	SEP	9	1133	23.91	19	14.89	155	32.81	7.47	36	5	.14	.4	1.0	LSW	2.2X		110	5
2001	SEP	9	1323	46.12	19	21.45	155	18.55	3.49	31	8	.12	.3	.8	SWR	1.6X		64	3
2001	SEP	9	1707	25.06	19	10.00	155	32.21	32.22	39	5	.07	.6	1.2	DLS	1.9X		118	8
2001	SEP	9	1722	58.38	19	9.17	155	32.68	35.47	27	5	.08	.8	1.3	DLS	1.4X		129	8
2001	SEP	9	1839	7.06	19	25.31	155	29.47	9.67	27	3	.12	.4	1.0	KAO	1.1X		41	6
2001	SEP	9	2035	21.13	19	18.57	155	14.88	2.60	19	1	.11	1.0	1.5	SSF	.9X		192	7
2001	SEP	9	2122	29.79	20	2.00	157	23.80	6.95	27		.14	8.5	15.6	DIS -	2.6X		294	131
2001	SEP	10	0232	46.28	19	14.02	156	23.79	32.58	38	7	.13	1.2	3.4	DIS	2.1X		300	67
2001	SEP	10	0822	51.42	19	20.82	155	48.39	9.30	26	5	.13	.9	.7	KON	1.5X		187	15
2001	SEP	10	1350	57.98	20	4.50	155	55.31	10.77	13	1	.11	1.8	.9	KOH	1.7X		200	13
2001	SEP	10	1352	28.06	18	53.76	155	15.90	13.27	35	7	.11	.9	1.0	LOI	2.5X		249	36
2001	SEP	10	1409	21.54	18	52.60	155	15.66	12.97	40	3	.12	1.3	1.5	LOIF	4.7U		253	38
2001	SEP	10	1433	6.31	18	53.28	155	15.01	12.55	45	9	.11	.9	1.0	LOI	3.0X		251	37
2001	SEP	10	1453	43.13	18	51.68	155	12.82	11.15	17	2	.13	2.1	1.2	LOI	1.9X		265	42
2001	SEP	10	1501	16.92	19	12.02	155	27.02	1.57	20	2	.12	.5	1.0	LSW	1.4X		145	5
2001	SEP	10	1509	26.85	18	50.68	155	13.53	11.99	29	5	.11	1.7	1.3	LOI	2.4X		293	43
2001	SEP	10	1543	56.69	19	6.95	155	26.67	45.23	21	3	.09	1.5	1.8	DLS	1.7X		285	5
2001	SEP	10	1554	44.68	18	51.06	155	14.64	12.05	44	9	.11	1.2	1.4	LOI	3.2X		259	41
2001	SEP	10	1601	0.80	18	52.04	155	14.53	11.95	41	7	.10	.8	.9	LOI	2.5X		255	40
2001	SEP	10	1623	7.94	18	47.75	155	14.97	13.89	29	5	.11	4.0	6.1	LOI	2.3X		282	46
2001	SEP	10	1629	11.38	18	51.80	155	12.31	10.81	18	3	.12	1.9	1.1	LOI	2.2X		292	43
2001	SEP	10	1632	9.31	18	49.29	155	14.25	11.16	19	2	.10	2.0	1.5	LOI	2.2X		279	44
2001	SEP	10	1653	4.96	19	23.73	155	29.69	10.19	25	5	.07	.4	.9	KAO	1.7X		44	4
2001	SEP	10	1723	50.29	18	52.57	155	13.43	11.35	20	2	.11	1.8	1.1	LOI	2.2X		259	40
2001	SEP	10	1740	6.72	18	53.43	155	16.09	13.71	23		.11	2.8	1.5	LOI	2.0X		257	36
2001	SEP	10	1805	11.12	18	51.32	155	10.47	10.01	20	3	.13	1.5	.9	LOI	2.1X		290	45
2001	SEP	10	1817	26.74	18	47.03	155	14.68	10.76	34	3	.13	1.7	1.8	LOI	2.3X		273	47
2001	SEP	10	1818	39.09	19	19.91	155	13.24	8.92	36	4	.11	.5	.6	SF2	1.9X		164	5
2001	SEP	10	1823	25.20	18	53.76	155	16.79	9.31	18		.14	2.2	1.1	LOI	1.5X		249	35

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	SEP	10	1827	30.03	18	54.34	155	16.30	13.38	24		.13	2.1	1.2	LOI	2.0X		247	35
2001	SEP	10	1829	6.89	18	53.12	155	14.72	12.61	4310		.12	.9	1.0	LOI	2.9X		252	38
2001	SEP	10	1831	21.57	18	49.64	155	13.99	10.27	43	9	.11	1.0	.8	LOI	2.8X		274	44
2001	SEP	10	1832	15.12	18	48.88	155	14.18	10.53	4511		.13	1.1	1.2	LOI	3.3X		276	45
2001	SEP	10	1833	31.44	18	53.51	155	14.83	12.58	4212		.11	.8	.9	LOI	2.9X		250	37
2001	SEP	10	1843	20.24	18	53.38	155	15.01	12.56	45	7	.11	.9	.9	LOI	3.2X		251	37
2001	SEP	10	1855	10.25	18	48.28	155	14.73	11.19	24	4	.10	1.4	1.2	LOI	2.2X		281	45
2001	SEP	10	1858	11.56	19	19.17	155	12.80	8.92	21	5	.12	.8	1.1	SF2	1.5X		197	6
2001	SEP	10	1900	39.69	19	21.17	155	13.33	7.93	36	6	.13	.5	.4	SF2	1.6X		156	3
2001	SEP	10	1918	13.91	18	51.22	155	11.86	10.39	22	5	.13	1.5	.9	LOI	2.0X		275	44
2001	SEP	10	1942	28.06	18	46.34	155	14.53	10.47	32	4	.15	1.6	1.5	LOI	2.1X		285	49
2001	SEP	10	1948	11.73	18	57.65	155	20.47	20.76	12		.08	3.5	4.1	LOI	1.6X		265	25
2001	SEP	10	1958	31.84	18	55.30	155	14.22	10.50	31	1	.11	1.4	.7	LOI	2.0X		245	35
2001	SEP	10	2022	57.15	18	54.56	155	15.19	10.60	38	7	.12	1.1	.8	LOI	2.8X		247	35
2001	SEP	10	2058	49.90	18	49.64	155	13.03	9.94	25	6	.14	1.2	.9	LOI	2.0X		266	45
2001	SEP	10	2119	44.78	18	48.15	155	14.48	9.65	30	7	.13	1.1	.9	LOI	1.9X		271	46
2001	SEP	10	2217	43.50	19	17.26	155	18.49	32.28	25	2	.10	.9	1.5	DEP	1.5X		162	1
2001	SEP	10	2234	57.08	18	46.47	155	18.55	7.84	29	6	.15	1.3	.8	LOI	2.7X		274	44
2001	SEP	11	0227	53.72	19	17.25	155	6.55	40.55	17	4	.09	1.2	1.1	DEP	1.5X		215	15
2001	SEP	11	0319	40.74	18	54.11	155	16.04	12.51	32	7	.12	.9	.6	LOI	2.2X		247	35
2001	SEP	11	0345	40.30	18	51.74	155	9.45	8.59	4412		.13	.9	.6	LOI	3.3X		259	46
2001	SEP	11	0433	28.47	18	48.35	155	15.17	11.53	18	3	.09	1.5	1.1	LOI	2.2X		281	45
2001	SEP	11	0457	46.33	19	20.30	155	5.37	6.64	31	4	.11	.6	.8	SF4	1.3X		182	7
2001	SEP	11	0921	21.28	18	54.22	155	15.66	8.04	21		.13	2.8	1.0	LOI	1.8X		255	35
2001	SEP	11	1034	14.17	18	44.94	155	10.09	8.70	21	3	.13	3.2	4.2	LOI	2.5X		291	55
2001	SEP	11	1314	19.76	20	11.35	156	1.43	16.07	26	2	.11	1.0	5.1	KOH	2.3X		162	26
2001	SEP	11	1446	55.50	19	10.25	155	36.43	6.07	29	6	.11	.5	1.0	LSW	1.8X		127	14
2001	SEP	11	1728	23.37	19	20.70	155	8.20	6.26	30	5	.18	.9	1.0	SF4	1.5X		177	4
2001	SEP	11	1825	41.56	18	54.63	155	15.61	8.14	21	3	.13	1.6	.8	LOI	2.3X		254	35
2001	SEP	11	2141	58.09	18	54.22	155	16.21	13.46	33	6	.13	1.0	.8	LOI	2.2X		252	35
2001	SEP	12	0420	54.74	19	28.31	155	26.58	5.25	26	6	.12	.3	2.5	KAO	1.3X		79	6
2001	SEP	12	0451	24.43	19	46.35	155	42.52	19.71	20	4	.15	.9	3.2	KEA	1.5X		195	17
2001	SEP	12	0454	29.13	18	52.50	155	18.37	8.84	18	2	.15	1.9	.9	LOI	1.7X		279	36
2001	SEP	12	0658	8.07	19	24.54	155	37.98	1.38	27	7	.12	.3	.6	MLO	2.0X		96	6
2001	SEP	12	1216	46.70	19	28.71	155	26.56	6.48	35	8	.12	.3	1.1	KAO	1.8X		48	6
2001	SEP	12	1805	4.31	18	54.94	155	13.47	8.68	16	4	.12	1.8	.7	LOI	1.5X		284	37
2001	SEP	12	1853	26.37	18	59.38	155	20.47	20.11	13		.11	3.3	3.6	LOI	1.7X		259	23
2001	SEP	13	0311	45.35	18	50.61	155	15.15	11.91	35	4	.12	1.3	1.3	LOIF	4.9U		273	41
2001	SEP	13	0320	11.48	18	54.51	155	14.99	13.06	22	1	.10	1.5	1.0	LOI	2.0X		252	36
2001	SEP	13	0337	30.70	18	50.88	155	12.98	11.02	17	2	.09	2.0	1.2	LOI	2.0X		293	43
2001	SEP	13	0416	47.97	18	53.28	155	12.54	10.80	15	4	.10	1.8	.9	LOI	1.6X		289	40
2001	SEP	13	0439	46.33	18	53.60	155	15.11	12.54	34	3	.09	1.4	1.1	LOI	2.0X		254	37
2001	SEP	13	0732	15.34	18	52.06	155	12.42	10.49	21	1	.10	2.2	.8	LOI	1.9X		264	42
2001	SEP	13	0743	22.35	19	49.83	155	34.50	14.63	20	1	.10	1.2	.9	KEA	1.4X		193	25
2001	SEP	13	0812	30.42	19	24.76	155	38.78	3.61	16	3	.12	.6	.6	MLO	1.2X		185	2

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	SEP	13	0814	32.04	19	20.02	155	10.44	9.00	14	2	.06	1.0	1.0	SF3	1.0X		218	4
2001	SEP	13	0839	54.17	18	52.92	155	12.12	9.86	41	6	.16	1.5	1.1	LOI	4.4U		254	41
2001	SEP	13	0859	33.94	18	53.47	155	10.18	9.75	15	2	.08	1.9	.9	LOI	1.7X		295	43
2001	SEP	13	0914	24.20	18	52.18	155	10.45	10.96	20	4	.11	1.8	1.2	LOI	2.3X		326	44
2001	SEP	13	0938	46.35	19	58.57	155	25.09	11.80	15	3	.11	.9	.4	KEA	1.6X		191	12
2001	SEP	13	1022	38.04	19	19.40	155	24.31	8.47	17	3	.10	.5	1.1	SWR	1.4U		72	2
2001	SEP	13	1122	25.77	19	19.40	155	12.33	5.27	21	2	.10	.8	1.5	SF2	1.2X		198	6
2001	SEP	13	1249	21.16	18	54.52	155	13.16	12.57	41	9	.11	1.0	.7	LOI	2.3X		256	38
2001	SEP	13	1306	18.11	19	57.79	155	29.54	37.76	23	6	.11	.8	1.3	KEA	1.5X		175	18
2001	SEP	13	1842	36.75	18	48.89	155	14.36	11.46	31	6	.12	1.3	1.2	LOI	1.7X		283	45
2001	SEP	13	2129	46.86	19	12.14	155	40.17	4.53	17	3	.13	.5	8.2	LSW	1.1X		102	11
2001	SEP	13	2147	0.12	19	45.21	155	40.53	12.74	22	2	.12	.8	.4	KEA	1.3X		179	19
2001	SEP	13	2350	41.63	19	25.42	155	30.00	10.41	18	3	.08	.4	1.2	KAO	.9X		47	7
2001	SEP	14	0306	47.25	18	52.35	155	14.29	12.99	25	3	.12	1.3	1.2	LOI	2.2X		259	40
2001	SEP	14	0400	40.76	19	7.60	155	34.74	6.53	20	2	.10	.6	3.3	LSW	1.1X		137	13
2001	SEP	14	0614	38.49	19	19.70	155	14.14	6.48	22	4	.12	.7	1.3	SF2	1.2U		182	6
2001	SEP	14	1151	29.35	19	20.51	155	12.91	9.19	19	3	.10	.7	.6	SF2	1.4X		184	4
2001	SEP	14	1549	24.05	19	29.30	155	46.90	9.27	27	7	.13	.6	.6	KON	1.5X		168	3
2001	SEP	14	1744	33.42	18	52.50	155	14.10	10.09	37	8	.12	.9	.6	LOI	2.1X		261	40
2001	SEP	14	1822	54.43	18	56.43	155	15.46	13.04	19		.12	2.1	1.1	LOI	2.3X		246	32
2001	SEP	14	1920	54.27	19	22.37	155	30.03	10.25	33	4	.07	.3	.8	KAO	1.1X		36	4
2001	SEP	14	2023	36.46	18	55.08	155	15.51	12.79	18	1	.07	1.6	.9	LOI	1.6X		250	34
2001	SEP	14	2057	2.22	19	22.80	155	30.31	9.25	26	5	.09	.3	1.0	KAO	1.2X		50	5
2001	SEP	14	2151	38.83	18	52.33	155	14.32	11.56	29	2	.12	1.6	1.0	LOI	2.0X		259	40
2001	SEP	14	2233	29.14	18	50.29	155	13.16	11.21	29	3	.11	1.7	1.3	LOI	2.0X		265	44
2001	SEP	15	0011	30.34	19	22.24	155	24.40	11.98	20	1	.07	.5	.6	KAO	1.3X		56	4
2001	SEP	15	0211	14.12	19	16.79	155	6.81	41.81	4310		.11	.8	.9	DEP	1.8X		187	11
2001	SEP	15	0410	41.43	19	58.98	155	24.49	12.07	32	4	.11	.8	.6	KEA	1.8X		194	12
2001	SEP	15	0611	35.74	19	27.03	155	15.18	15.54	21	3	.11	.9	.4	DEPL	1.7X		141	5
2001	SEP	15	0821	42.27	19	48.08	154	51.91	40.17	3714		.12	.8	1.3	KEA	1.8X		253	20
2001	SEP	15	0832	54.73	19	14.37	155	32.59	7.94	23	4	.19	.8	1.1	LSW	1.2X		111	5
2001	SEP	15	1022	5.43	19	12.23	155	35.01	8.55	28	7	.14	.4	1.4	LSW	1.1X		89	10
2001	SEP	15	1301	15.94	19	18.48	155	30.33	7.03	45	9	.15	.3	1.0	LSW	2.0X		49	6
2001	SEP	15	1306	18.38	19	18.41	155	30.00	8.14	33	6	.14	.4	.9	LSW	1.8X		49	6
2001	SEP	15	1456	20.18	19	50.91	155	32.80	19.05	21	2	.12	.9	3.0	KEA	1.4X		115	12
2001	SEP	15	1556	27.49	19	51.50	155	32.68	23.19	22	5	.12	.7	2.4	KEA	1.3X		119	12
2001	SEP	15	1637	39.21	19	49.99	155	32.06	18.32	29	5	.09	.9	2.9	KEA	1.9X		188	21
2001	SEP	16	2152	49.26	19	19.49	155	13.60	8.10	41	6	.12	.4	.6	SF2	1.6X		165	6
2001	SEP	17	0144	28.92	19	18.59	155	13.28	6.63	17	1	.09	.9	1.5	SF2	1.2X		189	7
2001	SEP	17	0147	59.11	19	12.51	155	27.07	3.00	23	1	.14	.5	1.5	LSW	1.3X		138	6
2001	SEP	17	0257	30.83	19	19.23	155	9.83	8.57	33	6	.10	.6	.5	SF3	1.6X		194	5
2001	SEP	17	0808	1.57	19	22.26	155	25.45	11.90	35	6	.09	.4	.6	KAO	2.0X		55	4
2001	SEP	17	1318	48.38	19	23.20	155	14.99	2.05	15	5	.11	.3	.5	SEC	1.2X		107	2
2001	SEP	17	1525	0.36	19	20.00	155	7.20	9.08	35	7	.09	.8	.5	SF4	1.4X		203	6
2001	SEP	17	2248	6.10	19	47.90	157	22.59	15.97	33	3	.14	4.3	12.3	DIS -	3.0X		292	146

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	SEP	17	2248	46.93	19	19.47	155	31.04	25.72	531	7	.07	.4	.8	DML	2.6X		80	8
2001	SEP	18	0712	42.36	19	12.14	155	44.78	11.67	20	6	.10	.7	.6	KON	1.3X		156	6
2001	SEP	18	0719	28.81	19	26.68	155	18.48	7.51	20	6	.09	.6	.9	INT	1.3X		162	3
2001	SEP	18	0959	18.75	19	16.75	155	11.54	5.24	17	3	.09	1.3	3.5	SF3	1.4X		294	11
2001	SEP	18	1615	16.65	19	24.30	155	17.09	1.46	19	5	.13	.4	.2	SSC	1.6X		89	1
2001	SEP	18	1656	37.45	19	18.62	155	14.48	5.21	18	5	.10	.8	1.8	SF2	.9X		243	6
2001	SEP	18	1811	28.49	19	24.81	155	1.68	3.06	36	5	.13	.6	.8	SME	1.6X		156	4
2001	SEP	18	1842	47.33	19	1.55	155	21.24	18.50	15		.13	5.7	3.1	LOI	1.7X		276	19
2001	SEP	18	2253	41.85	19	22.43	155	18.54	31.53	24	7	.12	.7	.9	DEP	1.5X		93	5
2001	SEP	19	0213	46.28	19	28.16	155	51.93	13.60	19	2	.12	1.9	.6	KON	1.5X		264	11
2001	SEP	19	0217	20.75	19	38.82	155	39.80	12.88	16	3	.11	1.6	.8	KEA	1.0X		247	19
2001	SEP	19	0403	58.82	19	20.10	155	6.50	6.62	41	9	.11	.6	.7	SF4	1.5X		180	6
2001	SEP	19	0629	40.89	19	11.53	155	35.23	5.17	31	2	.17	.5	1.4	LSW	1.7X		94	11
2001	SEP	19	0728	58.89	19	53.90	155	47.23	19.11	22	6	.10	1.1	2.9	HUA	1.5X		257	24
2001	SEP	19	1123	38.73	19	20.63	155	8.11	8.83	34	5	.10	.8	.7	SF4	1.9X		193	4
2001	SEP	19	1320	30.23	19	19.45	155	8.48	6.63	26	3	.09	.8	.7	SF4	1.0X		222	5
2001	SEP	19	1657	13.11	19	45.78	156	10.22	37.83	45	8	.11	.9	1.9	HUA	2.5X		201	20
2001	SEP	19	2224	0.54	19	22.66	155	5.51	8.29	20	3	.06	.6	.4	SF4	1.0X		212	4
2001	SEP	20	0052	20.98	19	30.34	155	0.57	41.93	31	9	.11	.8	1.0	DEP	2.9X		96	10
2001	SEP	20	0859	17.53	19	46.76	155	24.52	19.38	28	6	.11	.8	1.5	KEA	1.5X		117	5
2001	SEP	20	0942	42.75	19	28.70	155	53.54	11.97	34	5	.19	1.2	.6	KON	2.2X		214	14
2001	SEP	20	1000	19.58	19	10.24	155	25.38	38.87	21	4	.09	1.0	1.6	DLS	1.4X		216	5
2001	SEP	20	1207	24.98	19	22.71	155	3.25	7.75	20	2	.15	1.2	.7	SF5	1.4X		188	3
2001	SEP	20	1341	22.51	19	25.17	155	18.62	14.15	29	7	.08	.5	.6	DEP	1.4X		106	2
2001	SEP	20	1538	52.97	19	17.83	155	13.81	8.36	27	6	.11	.8	.8	SF2	1.2X		205	8
2001	SEP	20	2032	48.03	19	26.96	155	29.68	11.48	31	6	.11	.4	.8	KAO	1.5X		46	7
2001	SEP	20	2225	26.93	19	28.26	155	26.51	6.44	21	4	.13	.4	1.6	KAO	.9X		51	6
2001	SEP	21	0210	39.76	20	0.26	155	55.80	9.92	17	3	.12	2.0	2.0	KOH	1.4X		324	36
2001	SEP	21	0214	49.24	19	20.72	155	6.93	8.15	40	8	.13	.7	.6	SF4	1.8X		188	5
2001	SEP	21	0240	32.53	19	20.04	155	6.37	6.44	23	4	.09	.7	.9	SF4	1.2X		217	6
2001	SEP	21	0330	49.94	19	10.61	155	41.37	0.42	15	2	.12	.7	.6	LSW	.8X		159	8
2001	SEP	21	0817	16.23	19	20.72	155	6.65	6.71	31	6	.12	.6	.7	SF4	1.4X		192	5
2001	SEP	21	0919	8.27	19	58.21	156	14.78	39.31	29	4	.13	1.2	2.2	KOH	2.1X		201	52
2001	SEP	21	1024	31.88	18	54.43	155	10.28	17.29	24	3	.11	1.8	14.6	LOI -	1.8X		275	42
2001	SEP	21	1813	38.94	19	6.63	155	28.17	29.58	381	1	.10	.6	1.0	DLS	1.6X		184	5
2001	SEP	21	2229	59.24	19	23.56	155	28.80	10.66	17	2	.10	.6	1.2	KAO	1.4X		60	3
2001	SEP	21	2348	43.58	19	21.53	155	7.99	6.41	30	2	.16	.9	.9	SF4	1.3X		176	3
2001	SEP	22	0328	18.37	19	20.77	155	13.56	7.77	33	6	.11	.4	.5	SF2	1.3X		171	4
2001	SEP	22	0443	1.17	19	21.30	155	23.66	9.11	15	4	.08	.6	.7	SWR	.9X		122	2
2001	SEP	22	0941	31.85	19	6.16	155	32.52	6.71	13	1	.11	1.8	3.1	LSW	1.1X		281	10
2001	SEP	22	0952	12.26	19	19.22	155	6.86	7.80	33	5	.10	.7	.8	SF4	1.5X		212	7
2001	SEP	22	1232	53.37	19	19.08	155	14.89	7.49	33	3	.11	.6	.7	SF1	1.5X		171	5
2001	SEP	22	1915	32.33	19	21.68	155	11.52	7.25	28	3	.12	.5	.5	SF3	1.3X		163	3
2001	SEP	22	2148	35.92	19	29.58	155	59.52	11.88	15		.08	4.9	1.2	KON	1.3X		289	24
2001	SEP	22	2251	45.55	19	25.09	155	37.73	2.62	27	4	.12	.4	.4	MLO	2.3X		121	1

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	SEP	23	0121	21.53	19	17.62	155	28.13	9.90	27	3	.14	.5	.8	LSW	2.1U		72	6
2001	SEP	23	0123	13.14	19	17.80	155	27.92	9.44	36	5	.13	.3	.6	LSW	1.4X		46	6
2001	SEP	23	0833	4.14	19	26.85	155	39.09	14.70	25	6	.11	.5	.3	DML	1.3X		99	5
2001	SEP	23	1039	11.38	18	54.85	155	15.06	13.12	14		.08	2.3	1.1	LOI	1.9X		253	35
2001	SEP	23	1154	11.56	20	1.74	155	11.90	33.95	14	4	.07	2.1	1.6	KEA	1.6X		317	22
2001	SEP	23	1736	35.61	19	21.08	155	12.16	8.74	38	5	.13	.6	.5	SF3	2.0X		159	3
2001	SEP	23	2016	36.71	19	27.08	154	53.10	7.36	16	3	.08	.9	.5	LER	1.9X		168	3
2001	SEP	23	2215	3.20	19	45.48	155	28.14	13.94	23	6	.12	.6	.3	KEA	1.2X		124	3
2001	SEP	24	0230	14.02	18	48.27	155	14.66	10.17	21	3	.07	1.4	.8	LOI	1.7X		281	46
2001	SEP	24	0824	36.99	19	20.61	155	8.15	7.23	33	4	.12	.6	.7	SF4	1.4X		177	4
2001	SEP	24	1458	57.05	19	48.93	155	56.67	31.18	22	4	.12	1.6	1.9	HUA	1.5X		310	18
2001	SEP	24	2309	28.52	19	21.70	155	8.45	7.37	34	1	.13	.5	.5	SF4	1.8X		167	3
2001	SEP	25	0000	51.63	19	15.20	155	28.24	10.65	17	2	.09	.5	.8	LSW	1.5X		75	3
2001	SEP	25	0818	58.27	19	23.70	155	27.10	10.17	22	5	.11	.4	.9	KAO	1.3X		66	2
2001	SEP	25	1232	5.37	19	19.75	155	10.03	7.91	32	4	.10	.6	.7	SF3	1.6X		176	4
2001	SEP	25	1313	11.95	19	17.07	155	27.62	12.64	19	4	.08	.5	.9	LSW	1.2X		54	6
2001	SEP	25	1431	5.81	19	18.95	155	13.12	8.69	29	2	.12	.8	.9	SF2	1.9X		180	7
2001	SEP	25	2126	59.98	19	20.89	155	9.57	8.20	35	3	.12	.6	.7	SF3	1.4X		168	2
2001	SEP	25	2156	15.35	19	35.33	155	53.76	15.87	25	6	.15	1.2	1.1	KON	1.8X		174	16
2001	SEP	25	2307	4.40	19	22.04	155	26.72	10.99	25	6	.11	.4	.8	KAO	1.3X		49	2
2001	SEP	25	2338	4.45	19	22.48	155	25.29	12.25	41	8	.12	.4	.6	KAO	1.4X		35	4
2001	SEP	26	0303	20.18	19	12.47	155	32.97	7.79	20	4	.12	.6	.9	LSW	1.2X		135	7
2001	SEP	26	0517	17.31	18	54.15	155	15.63	12.97	39	6	.09	1.1	.9	LOI	2.5X		249	36
2001	SEP	26	0817	54.95	19	31.71	155	18.68	32.78	20	5	.09	.9	1.4	DEP	1.2X		135	9
2001	SEP	26	0917	22.74	19	16.01	155	27.45	11.10	25	2	.09	.4	.8	LSW	1.6X		67	5
2001	SEP	26	1447	57.68	19	21.63	155	30.47	12.33	22	3	.10	.4	1.1	KAO	1.4X		62	5
2001	SEP	26	2239	15.30	18	46.45	155	13.71	10.51	28	5	.12	1.4	1.5	LOI	2.2X		284	49
2001	SEP	27	0314	58.12	19	8.18	155	30.97	6.94	14	1	.08	1.4	2.0	LSW	1.3X		210	6
2001	SEP	27	0731	59.26	19	21.26	155	30.26	10.11	15	3	.04	.4	1.0	KAO	1.2X		94	5
2001	SEP	27	1149	49.76	19	23.98	155	15.81	3.12	32	6	.09	.2	.2	SEC	1.9X		67	1
2001	SEP	27	1229	32.05	19	23.86	155	15.62	2.90	19	4	.08	.3	.3	SEC	1.7X		102	2
2001	SEP	27	1529	38.75	19	8.93	155	36.64	11.82	23	4	.11	.6	.9	LSW	1.2X		186	15
2001	SEP	27	2052	32.61	19	24.52	155	19.87	3.85	13	1	.07	.7	1.8	KAO	.9X		81	4
2001	SEP	27	2354	16.69	19	44.36	155	38.36	3.04	13	1	.10	.6	2.5	KEA	1.5X		166	22
2001	SEP	28	0359	57.14	19	19.58	155	12.93	5.94	33	6	.14	.5	1.0	SF2	1.2X		168	6
2001	SEP	28	0404	47.94	19	49.14	156	12.40	31.67	26	9	.12	1.4	2.5	HUA	1.9X		297	41
2001	SEP	28	0413	38.03	19	10.49	155	25.00	39.28	40	8	.10	.7	1.1	DEP	1.7X		172	5
2001	SEP	28	0749	13.69	19	23.02	155	14.58	28.27	19	7	.09	1.2	.8	DEP	1.2X		253	16
2001	SEP	28	1509	34.77	19	25.07	155	18.92	7.14	27	7	.12	.5	.9	INT	1.3X		78	2
2001	SEP	28	1827	42.13	20	16.29	155	44.07	30.06	581	7	.09	.7	1.4	KOHF	2.9X		168	17
2001	SEP	28	1922	6.55	19	19.24	155	16.39	35.12	35	6	.10	.8	1.1	DEP	1.8X		158	5
2001	SEP	29	0315	10.64	19	21.54	155	4.93	8.93	39	9	.07	.5	.3	SF5	1.8X		184	5
2001	SEP	29	0711	50.57	19	45.53	155	19.99	12.92	29	8	.10	.5	.4	KEA	1.4X		105	13
2001	SEP	29	1807	37.82	19	20.28	155	11.80	6.40	31	3	.12	.7	1.0	SF3	1.3X		175	5
2001	SEP	29	1849	54.33	19	10.55	155	19.11	33.38	37	6	.10	.8	1.4	DEP	1.4X		188	11

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	SEP	29	2030	34.97	19	19.99	155	11.34	7.17	28	3	.12	.7	.8	SF3	1.0X		191	5
2001	SEP	29	2320	21.55	19	19.41	155	6.82	7.33	30	7	.12	.8	.7	SF4	1.3X		210	7
2001	SEP	30	0632	47.82	19	6.34	155	26.32	41.21	20	2	.10	1.2	2.3	DLS	2.7X		209	6
2001	SEP	30	0904	51.80	19	40.80	156	8.59	35.39	24	3	.10	1.9	2.8	HUA	1.9X		306	44
2001	SEP	30	2040	21.76	19	4.80	155	25.90	33.77	30	6	.09	.9	1.4	DLS	1.8X		196	9
2001	SEP	30	2145	20.66	19	39.48	156	9.83	33.67	32	6	.12	1.3	2.3	HUA	2.0X		205	34
2001	OCT	1	0035	44.52	19	19.28	155	13.09	8.30	27	2	.11	.7	.8	SF2	1.4X		179	6
2001	OCT	1	1408	50.00	19	20.78	155	12.49	7.70	28	1	.13	.6	.9	SF2	1.5X		171	4
2001	OCT	1	1446	28.20	19	16.33	155	26.81	1.14	21	2	.15	.4	1.0	LSW	1.0X		63	6
2001	OCT	1	1515	45.52	19	22.53	155	14.21	3.19	19	4	.06	.3	.3	SEC	1.6X		127	2
2001	OCT	1	1521	27.75	19	19.40	155	12.87	5.88	23	6	.12	.8	1.4	SF2	1.0X		210	6
2001	OCT	1	1613	30.46	19	21.61	155	30.62	10.41	20	4	.07	.4	1.0	KAO	.9X		94	6
2001	OCT	1	1718	44.35	19	47.62	155	33.94	11.77	18	4	.09	.6	1.1	KEA	1.2X		177	22
2001	OCT	1	1729	33.31	19	17.44	155	22.72	35.93	23	5	.12	1.0	1.6	DEP	1.4X		120	5
2001	OCT	1	1950	49.95	19	24.45	155	30.35	9.59	32	6	.12	.3	.9	KAO	1.4X		41	6
2001	OCT	1	1952	42.07	19	24.48	155	30.12	10.73	21	4	.09	.4	1.0	KAO	1.3X		46	6
2001	OCT	2	0420	14.40	19	20.06	155	10.54	3.25	27	5	.17	.7	1.4	SSF	1.0X		181	4
2001	OCT	2	0524	28.63	19	28.41	155	15.71	32.38	26	7	.10	.7	1.0	DEP	1.4X		118	6
2001	OCT	2	0604	38.71	19	23.40	155	2.40	8.22	34	5	.13	.8	.5	SF5	1.4X		172	3
2001	OCT	2	1247	40.96	19	31.23	155	1.22	37.66	31	6	.11	1.1	1.0	DEP	1.5X		175	12
2001	OCT	2	1304	39.87	19	29.84	155	28.15	5.94	16	4	.09	.4	1.4	KAO	1.6X		78	4
2001	OCT	2	2237	23.25	19	17.95	155	14.83	8.38	36	2	.12	.5	.7	SF1	1.5X		165	7
2001	OCT	2	2259	27.75	19	13.52	155	27.66	8.96	30	8	.11	.4	.7	LSW	1.3X		107	5
2001	OCT	3	0212	17.05	19	32.60	156	3.28	8.52	21	4	.15	1.4	.7	KON	1.3X		270	28
2001	OCT	3	0519	32.00	19	10.87	155	26.16	35.23	19	5	.06	1.1	1.9	DLS	1.3X		185	4
2001	OCT	3	0626	32.75	19	11.45	155	16.33	45.23	24	4	.09	1.0	1.6	DEP	1.5X		191	13
2001	OCT	3	0910	44.11	19	0.16	155	25.65	40.76	16	2	.09	1.4	2.0	DLS	1.6X		244	18
2001	OCT	3	1312	2.32	19	10.40	155	32.42	8.48	35	6	.14	.7	.8	LSW	1.6X		164	8
2001	OCT	3	1336	14.26	19	51.13	155	4.53	31.82	18	2	.12	1.6	1.9	KEA	1.6X		244	17
2001	OCT	3	1848	50.63	19	21.16	155	8.55	7.27	39	4	.13	.7	.6	SF4	2.0X		169	3
2001	OCT	3	1938	7.85	19	22.39	155	9.57	5.90	30	4	.13	.5	.7	SF3	1.3X		145	1
2001	OCT	3	2004	9.58	19	19.10	155	14.14	0.03	35	6	.18	.3	.4	SSF #	1.4X		165	7
2001	OCT	3	2014	37.03	19	18.54	155	13.63	8.19	17	1	.12	1.4	1.0	SF2	1.0X		215	8
2001	OCT	4	0024	5.78	19	17.99	155	23.15	2.70	21	3	.11	.3	.7	SWR	1.0X		103	4
2001	OCT	4	0046	4.64	19	11.90	155	27.52	0.44	17	4	.13	.4	.6	LSW	1.1X		134	4
2001	OCT	4	0110	32.47	19	17.74	155	27.36	11.08	26	4	.13	.4	.9	LSW	1.2X		49	7
2001	OCT	4	0339	1.79	19	18.66	155	13.06	5.47	21	3	.14	.7	2.3	SF2	1.0X		201	7
2001	OCT	4	0524	11.81	19	1.57	155	25.24	44.30	22	3	.10	1.7	1.9	DLS	1.2X		237	15
2001	OCT	4	1147	41.24	19	15.42	155	25.24	10.18	22	4	.14	.5	1.0	LSW	1.2X		70	3
2001	OCT	4	1213	4.03	19	24.58	155	29.16	11.33	23	6	.09	.4	.9	KAO	1.4X		68	5
2001	OCT	4	1731	50.28	19	23.88	155	26.30	6.72	29	4	.11	.3	.9	KAO	1.5X		37	3
2001	OCT	4	1853	44.55	19	20.81	155	8.94	8.73	36	2	.10	.7	.6	SF4	1.9X		170	3
2001	OCT	4	1903	56.96	19	49.49	155	33.52	23.60	3912		.10	.5	1.5	KEA	2.1U		106	12
2001	OCT	4	2253	23.67	19	9.88	155	41.08	0.82	20	2	.17	.5	.9	LSW	1.5X		88	9
2001	OCT	5	0339	5.74	19	15.14	155	17.70	1.58	35	4	.13	.5	.9	SWR	1.9X		170	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	OCT	5	0438	5.51	19	22.16	155	10.67	3.50	21	4	.08	.7	.4	SER	1.6X		143	1
2001	OCT	5	1806	0.57	19	20.49	155	8.58	8.88	39	7	.12	.7	.6	SF4	2.0X		185	4
2001	OCT	5	1810	52.40	19	20.97	155	8.17	8.04	4310		.13	.5	.5	SF4	2.1X		174	4
2001	OCT	5	1959	51.15	19	20.52	155	10.77	7.50	30	3	.13	.6	.7	SF3	1.5X		180	3
2001	OCT	6	0122	42.12	18	51.80	155	11.42	47.71	20	1	.10	3.0	2.8	LOI	2.0X		266	44
2001	OCT	6	0820	2.17	19	53.92	156	32.37	5.20	20	3	.12	2.2	3.4	DIS	1.7X		234	77
2001	OCT	6	1334	51.92	19	26.19	155	22.49	9.45	17	6	.09	.4	1.0	KAO	.9X		49	4
2001	OCT	6	2113	33.29	19	20.61	155	13.64	7.02	21	1	.11	.7	1.0	SF2	1.2X		174	4
2001	OCT	7	0339	31.43	19	48.04	156	1.62	10.47	25	3	.09	1.3	.7	HUA	1.9X		182	23
2001	OCT	7	1058	34.05	19	10.94	155	32.68	6.90	16	2	.10	.8	1.9	LSW	1.5X		156	9
2001	OCT	7	1516	39.19	19	13.66	155	28.58	37.89	25	3	.08	.9	1.7	DLS	1.5X		174	4
2001	OCT	7	1945	54.02	19	22.50	155	11.50	5.57	31	6	.13	.5	.7	SF3	1.3X		131	3
2001	OCT	7	2121	57.62	19	22.35	155	53.13	8.38	17	3	.20	1.6	2.7	KON	1.0X		247	20
2001	OCT	7	2222	54.02	19	20.62	155	8.48	7.66	25	2	.09	.7	.6	SF4	1.3X		189	4
2001	OCT	7	2350	27.15	19	33.31	156	28.83	3.83	32	7	.13	2.0	2.2	DIS	2.3X		238	69
2001	OCT	8	0025	9.49	19	45.32	155	21.64	28.75	18	5	.18	1.8	2.3	KEA	1.3X		170	15
2001	OCT	8	0518	30.90	19	31.52	155	43.39	6.46	18	5	.12	.6	1.4	KON	1.0X		103	5
2001	OCT	8	0708	14.89	18	53.30	155	12.71	3.90	19	4	.15	1.3	1.0	LOI	1.7X		261	44
2001	OCT	8	1227	40.52	19	13.42	155	27.09	5.26	28	3	.16	.4	1.2	LSW	1.2X		119	6
2001	OCT	8	1304	29.23	19	20.79	155	12.95	8.72	33	5	.11	.6	.4	SF2	1.5X		173	3
2001	OCT	8	1318	55.43	19	8.32	155	24.37	45.37	25	2	.10	1.2	1.9	LOI	1.6X		223	7
2001	OCT	8	1351	53.32	20	1.08	156	5.47	49.80	26	6	.12	1.2	2.9	KOH	2.0X		175	66
2001	OCT	9	0353	49.58	19	24.33	155	17.04	1.57	15	6	.09	.3	.2	SSC	1.4X		98	1
2001	OCT	9	0741	48.61	19	30.44	155	26.25	6.30	15	5	.12	.5	1.4	MLO	1.0X		126	4
2001	OCT	9	0958	48.88	19	20.15	155	14.86	8.23	47	8	.12	.3	.4	SF1	1.9X		158	4
2001	OCT	9	1903	48.80	19	10.62	155	25.08	39.07	4811		.09	.6	.9	DLS	2.1X		169	5
2001	OCT	9	1944	42.96	18	47.75	155	15.32	24.29	15	2	.11	2.9	7.1	LOI	1.5X		331	46
2001	OCT	9	2012	12.97	19	20.14	155	6.51	7.58	32	6	.09	.7	.6	SF4	1.6X		205	6
2001	OCT	9	2205	26.13	19	24.87	155	19.40	4.98	29	6	.09	.3	1.0	KAO	1.3X		47	3
2001	OCT	10	0400	42.08	19	53.84	155	19.96	9.86	12	2	.12	1.6	.7	KEA	1.2X		313	1
2001	OCT	10	0749	55.87	19	25.74	155	19.00	6.24	35	9	.11	.4	.7	INT	2.0X		47	3
2001	OCT	10	1233	6.31	19	19.21	155	15.36	5.45	25	4	.13	.8	1.3	SF1	1.0X		179	4
2001	OCT	10	1247	5.17	19	29.22	155	26.76	7.14	20	6	.10	.4	1.3	KAO	1.3X		96	5
2001	OCT	10	1402	36.42	19	21.39	155	12.78	2.09	17	4	.11	.5	.5	SER	1.4X		163	2
2001	OCT	10	2201	36.33	19	5.59	155	21.34	41.74	39	9	.08	.8	1.2	LOI	1.4X		202	14
2001	OCT	11	0112	29.95	19	25.96	155	14.14	28.22	34	9	.12	.8	1.0	DEP	1.2X		92	2
2001	OCT	11	0325	53.80	19	22.13	155	13.59	11.53	27	5	.10	.6	.4	SF2	1.1X		139	1
2001	OCT	11	0841	22.54	19	58.40	155	18.87	11.13	24	2	.13	1.5	.5	KEA	1.8X		189	8
2001	OCT	11	0906	41.17	19	57.25	155	17.35	10.80	15	3	.16	1.7	.7	KEA	1.4X		290	9
2001	OCT	11	1303	32.24	19	17.35	155	29.43	7.43	17	4	.08	.4	.9	LSW	1.0X		77	4
2001	OCT	11	1347	50.39	19	19.95	155	13.76	8.04	41	5	.13	.4	.5	SF2	1.9X		160	5
2001	OCT	11	1415	32.89	19	14.24	155	15.56	38.61	24	1	.07	1.2	2.0	DEP	1.4X		216	9
2001	OCT	11	1610	43.78	19	20.40	155	7.12	5.72	38	7	.14	.6	.9	SF4	1.5X		195	5
2001	OCT	11	1623	36.47	19	19.71	155	13.31	4.69	18	3	.12	.9	2.4	SSF	1.0X		197	5
2001	OCT	11	1826	5.91	19	58.61	155	9.86	0.01	19	4	.15	2.3	.7	KEA #	1.4X		302	21

ORIGIN TIME (HST)					LAT N	LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD GAP	DS
2001	OCT	11	2012	23.23	19 39.04	156	26.30	5.26	30	6	.14	1.4	2.3	DIS	1.8X	235	63
2001	OCT	11	2042	57.02	19 28.82	155	26.66	6.21	26	6	.14	.4	1.6	KAO	1.1X	74	6
2001	OCT	11	2251	45.24	19 17.64	155	13.74	6.62	21	2	.11	.8	1.7	SF2	1.0X	216	9
2001	OCT	11	2256	27.10	19 18.86	155	6.67	3.93	25	4	.12	.8	2.8	SSF	1.2X	215	8
2001	OCT	12	0046	18.21	19 21.52	155	2.47	6.01	26	3	.15	1.2	1.0	SF5	1.3X	219	6
2001	OCT	12	0110	15.47	19 22.10	155	2.57	6.83	25	1	.11	1.1	.7	SF5	1.2X	198	5
2001	OCT	12	0319	58.62	19 17.17	155	25.91	6.09	17	2	.10	.4	1.7	LSW	1.0X	64	6
2001	OCT	12	0352	10.91	19 20.44	155	12.32	9.86	20	2	.06	.9	.5	SF2	1.2X	179	4
2001	OCT	12	0537	44.97	19 58.26	155	30.35	38.30	31	7	.12	.9	1.4	KEA	1.8X	175	19
2001	OCT	12	0634	49.03	19 23.04	155	14.46	1.63	16	3	.08	.3	.3	SEC	1.7X	111	3
2001	OCT	12	0746	37.99	19 23.80	155	15.33	1.42	17	4	.07	.2	.4	SEC	1.5X	104	2
2001	OCT	12	1320	44.45	19 19.33	155	10.02	6.90	27	2	.09	.6	.8	SF3	1.5X	200	5
2001	OCT	12	2344	41.27	19 27.37	155	29.71	11.44	39	7	.11	.4	.5	KAO	1.8X	48	9
2001	OCT	13	0337	44.82	19 20.27	155	7.39	9.50	4813		.11	.5	.4	SF4	2.5X	172	5
2001	OCT	13	0338	19.14	19 20.57	155	7.80	8.30	4813		.13	.4	.4	SF4	2.8X	169	5
2001	OCT	13	0508	25.61	19 21.18	155	27.28	11.16	20	5	.09	.4	.8	KAO	1.2X	60	3
2001	OCT	13	0908	43.48	19 19.43	155	13.04	8.85	23	1	.11	.8	.8	SF2	1.2X	192	6
2001	OCT	13	0948	28.11	19 21.14	155	29.91	10.36	24	1	.12	.5	1.1	KAO	1.3X	50	5
2001	OCT	13	1601	14.78	19 19.65	155	10.31	7.86	31	5	.12	.7	.6	SF3	1.6X	195	5
2001	OCT	13	1707	40.90	19 23.57	155	29.89	10.44	23	1	.07	.4	1.0	KAO	1.4X	45	4
2001	OCT	13	1826	43.09	19 55.37	155	49.91	43.29	43	9	.10	.8	1.2	KOH	2.2X	146	23
2001	OCT	13	1953	12.48	19 24.38	155	2.05	7.58	22	1	.10	.8	.6	SF5	1.1X	169	4
2001	OCT	14	0113	1.56	18 53.61	155	15.14	12.68	33	3	.11	1.5	1.3	LOI	2.0X	254	37
2001	OCT	14	0440	31.92	19 15.51	155	25.84	8.79	36	4	.14	.4	.9	LSW	1.7X	74	4
2001	OCT	14	0504	21.98	19 22.65	155	2.41	6.72	24	2	.15	1.2	1.0	SF5	1.4X	198	4
2001	OCT	14	0630	35.21	19 15.27	155	17.81	32.61	19	3	.11	1.5	1.4	DEP	1.2X	225	5
2001	OCT	14	0816	25.01	20 8.26	155	47.26	23.63	37	7	.11	.9	1.1	KOH	2.4X	160	1
2001	OCT	14	0904	12.73	19 35.76	155	57.31	35.61	22	5	.10	1.7	1.0	KON	1.5X	326	22
2001	OCT	14	1639	29.54	19 0.18	155	10.46	13.93	23	2	.13	2.5	1.5	LOI	1.6X	273	35
2001	OCT	14	2033	51.46	19 17.97	155	23.17	2.64	21	3	.14	.4	.9	SWR	1.1X	103	4
2001	OCT	14	2230	59.20	19 11.18	155	28.15	7.35	35	6	.15	.5	.6	LSW	1.8X	143	3
2001	OCT	15	0225	55.66	19 20.11	155	12.12	5.45	20	2	.13	.8	1.7	SF3	.9X	191	5
2001	OCT	15	0249	26.72	19 18.96	155	13.15	8.05	35	3	.13	.5	.6	SF2	1.6X	169	7
2001	OCT	15	0324	40.98	19 11.71	155	37.95	3.54	20	3	.14	.5	2.7	LSW	1.2X	87	15
2001	OCT	15	1546	7.30	19 22.15	155	17.40	2.16	14	4	.10	.3	.5	SSC	1.1X	96	2
2001	OCT	15	1724	16.96	19 21.04	155	11.70	6.69	29	3	.10	.6	.6	SF3	1.2X	170	4
2001	OCT	15	1830	10.13	19 21.51	155	7.89	7.51	41	6	.12	.6	.7	SF4	1.9X	169	3
2001	OCT	15	1923	5.88	19 21.35	155	16.53	28.18	38	8	.11	.7	.9	DEP	1.5X	128	2
2001	OCT	15	2043	44.78	19 23.24	155	30.88	9.98	23	4	.10	.4	.9	KAO	1.1X	52	6
2001	OCT	15	2122	31.47	19 27.80	155	27.83	10.28	40	7	.11	.3	.7	KAO	1.7X	48	8
2001	OCT	16	0636	31.11	19 20.00	155	10.44	7.54	27	4	.10	.6	.7	SF3	1.1X	191	4
2001	OCT	16	0852	2.35	18 50.09	155	20.04	42.74	21	4	.07	1.8	2.3	LOI	1.6X	302	45
2001	OCT	16	1936	26.65	19 24.09	155	26.49	8.68	37	8	.13	.3	.9	KAO	1.3X	33	4
2001	OCT	16	2218	18.58	19 4.13	155	18.33	45.45	3510		.09	.9	1.1	LOI	1.6X	215	19
2001	OCT	16	2331	45.98	19 23.11	155	28.18	9.43	25	4	.12	.4	.8	KAO	1.1X	38	1

ORIGIN TIME (HST)					LAT N	LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD GAP	DS
2001	OCT	17	0032	35.23	19 5.79	155	28.69	32.02	22	5	.10	1.2	1.2	DLS	1.3X	244	7
2001	OCT	17	0133	43.23	19 21.87	155	4.43	7.33	25	3	.14	.9	.7	SF5	1.0X	196	5
2001	OCT	17	0135	38.26	19 31.98	156	38.75	0.57	23	6	.13	3.1	.8	DIS	1.7X	257	93
2001	OCT	17	0240	53.65	19 16.81	155	30.63	8.15	28	4	.13	.4	1.1	LSW	1.3X	79	3
2001	OCT	17	0703	8.78	19 16.05	155	14.97	7.85	18	3	.10	.9	.9	SF1	1.0X	225	7
2001	OCT	17	0940	1.14	19 2.73	155	22.33	34.97	20	3	.09	1.4	1.5	LOI	1.7X	275	16
2001	OCT	17	1043	34.84	19 13.29	155	22.89	35.93	37	8	.11	.7	1.1	DEP	1.7X	174	3
2001	OCT	17	1110	9.62	19 21.83	155	18.24	27.31	16	3	.11	1.6	1.8	DEP	1.1X	97	4
2001	OCT	17	1322	50.27	19 10.30	155	28.58	35.67	27	7	.10	.8	1.4	DLS	1.4X	127	2
2001	OCT	17	1332	26.03	19 28.96	155	27.58	7.30	20	6	.09	.4	1.4	KAO	1.2X	79	6
2001	OCT	17	1816	28.65	19 10.73	154	59.08	29.86	5115		.13	.8	1.4	DIS	2.2X	230	27
2001	OCT	17	1924	14.52	19 23.83	155	26.77	10.04	19	5	.13	.4	1.1	KAO	1.0X	71	3
2001	OCT	17	2340	45.72	19 23.02	155	30.01	10.98	22	3	.07	.4	.9	KAO	1.1X	49	4
2001	OCT	17	2356	26.39	19 23.12	155	10.23	2.38	11	1	.06	.8	.6	SER	1.2X	99	2
2001	OCT	18	0340	57.87	19 29.09	155	26.54	10.05	20	4	.08	.3	.9	KAO	1.1X	78	6
2001	OCT	18	0449	59.35	19 30.35	155	27.27	5.38	17	5	.11	.4	1.2	MLO	1.5X	110	3
2001	OCT	18	0608	33.97	19 19.55	155	13.48	4.32	14	3	.11	.7	2.5	SSF	.7X	198	6
2001	OCT	18	1147	52.22	19 20.45	155	9.75	7.25	27	5	.11	.9	.7	SF3	1.3X	200	3
2001	OCT	18	1348	23.30	19 25.54	155	29.58	9.87	36	6	.10	.3	.7	KAO	1.8X	41	7
2001	OCT	18	1401	45.38	19 18.39	155	3.50	41.71	24	6	.10	1.5	1.0	DEP	1.4X	296	12
2001	OCT	18	1535	3.10	19 16.85	155	34.76	5.04	29	7	.12	.3	2.4	LSW	1.3X	78	9
2001	OCT	18	2238	4.28	19 11.06	155	30.73	12.59	22	5	.13	.9	.4	LSW	1.3X	201	6
2001	OCT	19	0440	23.63	19 22.65	155	30.03	8.42	24	4	.11	.4	1.0	KAO	1.2X	48	4
2001	OCT	19	0553	5.88	19 16.09	155	29.99	7.77	20	4	.20	.6	1.3	LSW	.9X	58	2
2001	OCT	19	1128	27.98	19 17.75	155	23.54	4.72	24	5	.12	.5	1.8	SWR	1.2X	101	5
2001	OCT	19	1348	18.30	19 24.19	155	2.85	5.84	19	2	.13	.8	1.0	SF5	1.3X	168	2
2001	OCT	19	1357	7.76	19 17.89	155	22.97	3.09	17	1	.09	.4	.9	SWR	1.2U	108	4
2001	OCT	19	2027	19.09	19 18.99	155	15.05	8.41	34	5	.13	.6	.7	SF1	1.5X	165	6
2001	OCT	19	2350	15.35	19 23.28	155	29.74	12.98	32	5	.11	.4	.7	KAO	1.5X	45	4
2001	OCT	20	0619	41.74	19 57.12	155	29.27	10.28	15	2	.10	1.4	.7	KEA	1.1X	242	17
2001	OCT	20	1343	42.70	19 22.96	155	29.93	9.93	18	2	.08	.4	1.0	KAO	1.6X	79	4
2001	OCT	20	1522	36.03	19 20.61	155	25.19	9.91	27	4	.12	.4	.8	KAO	1.0X	56	3
2001	OCT	20	1750	18.59	19 26.41	155	21.90	9.21	27	6	.09	.4	.9	KAO	1.3X	64	3
2001	OCT	20	2045	16.06	19 55.21	155	48.25	14.34	21	5	.12	1.6	1.1	KOH	1.6X	264	26
2001	OCT	20	2056	37.54	19 51.85	155	46.41	14.33	15		.10	3.2	1.4	HUA	1.5X	246	21
2001	OCT	20	2225	54.42	19 12.82	155	37.35	11.33	18	3	.12	.5	1.4	LSW	1.6X	137	13
2001	OCT	20	2347	56.12	19 25.38	154	59.43	3.36	11	1	.17	1.4	.7	SLE	1.1X	147	1
2001	OCT	21	0149	58.50	19 50.94	155	44.45	13.51	18	3	.14	1.6	.9	HUA	1.4X	233	21
2001	OCT	21	0413	33.87	19 12.35	155	35.33	0.03	4912		.18	.4	.2	LSW #	2.9X	88	10
2001	OCT	21	0835	9.90	19 20.72	155	7.76	7.67	41	6	.11	.6	.5	SF4	2.3X	178	4
2001	OCT	21	1134	29.47	19 26.12	155	29.72	10.21	27	4	.09	.4	.9	KAO	1.2X	68	6
2001	OCT	21	1303	13.67	19 17.56	155	27.33	9.50	26	3	.15	.5	1.0	LSW	1.5X	61	7
2001	OCT	21	1922	0.69	19 29.95	155	27.05	6.35	15	2	.09	.5	1.4	KAO	1.8X	108	4
2001	OCT	21	2126	4.15	19 19.63	155	5.18	4.87	25	4	.11	.9	3.0	SSF	1.3X	215	8
2001	OCT	22	1506	33.62	19 20.93	155	6.35	8.09	37	9	.10	.7	.6	SF4	1.6X	197	5

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	OCT	22	1555	41.33	19	25.34	155	15.82	2.32	10	4	.08	.9	.5	SNCL	1.9X		245	2
2001	OCT	22	1855	31.81	19	16.61	155	27.67	12.05	19	4	.16	.6	1.2	LSW	.9X		114	5
2001	OCT	22	2006	55.68	19	22.16	155	41.63	29.41	24	6	.09	.7	1.3	DML	1.2X		137	3
2001	OCT	22	2131	36.76	19	26.89	155	28.52	9.79	24	5	.10	.3	1.1	KAO	1.1X		51	8
2001	OCT	23	0216	12.93	19	21.14	155	8.22	6.87	28	5	.13	.9	.8	SF4	1.0X		180	3
2001	OCT	23	0334	20.37	19	22.14	155	10.53	6.24	19	3	.12	.8	.9	SF3	.9X		143	1
2001	OCT	23	0345	43.83	19	41.22	155	13.83	40.56	4310		.11	.6	1.1	KEA	1.9X		112	21
2001	OCT	23	0423	6.74	19	21.73	155	4.82	6.53	19	3	.11	1.0	.8	SF5	1.3X		211	5
2001	OCT	23	0730	41.70	19	46.56	155	48.44	12.45	24	1	.10	1.0	.4	HUA	1.8X		165	10
2001	OCT	23	1657	22.90	19	25.65	155	20.49	6.99	15	4	.10	.5	1.0	KAO	1.0X		100	4
2001	OCT	23	1754	8.05	19	17.35	155	29.40	8.30	24	7	.12	.4	1.0	LSW	1.2X		68	4
2001	OCT	23	1809	51.56	19	17.19	155	30.65	8.61	19	4	.14	.6	1.6	LSW	1.0X		130	4
2001	OCT	23	1831	21.35	19	22.04	155	12.71	8.18	36	6	.13	.4	.4	SF2	1.5X		140	1
2001	OCT	23	2228	49.07	19	31.68	155	26.10	23.72	38	7	.12	.6	.9	DML	1.5X		52	3
2001	OCT	23	2322	14.38	19	24.92	155	39.09	3.42	20	4	.08	.8	.6	MLO	1.1X		199	2
2001	OCT	23	2338	22.98	19	23.69	155	29.45	10.32	46	8	.10	.3	.4	KAOF	3.0X		33	4
2001	OCT	24	0202	26.83	19	28.47	154	48.21	9.18	17	5	.11	1.5	.4	LER	1.4X		291	5
2001	OCT	24	0324	40.90	19	6.83	155	28.14	29.86	4813		.09	.6	1.0	DLS	1.8X		176	5
2001	OCT	24	0513	0.52	19	24.85	155	17.09	11.23	21	7	.10	.5	.6	INTL	2.1X		81	0
2001	OCT	24	1205	30.57	19	18.76	155	25.34	10.99	20	3	.11	.5	1.1	LSW	1.1X		67	4
2001	OCT	24	1345	1.32	19	27.12	154	53.13	4.90	17	3	.12	.8	1.2	SLE	1.4X		170	3
2001	OCT	24	1927	59.44	19	20.75	155	7.44	8.37	42	7	.11	.6	.5	SF4	2.1X		174	5
2001	OCT	24	2103	50.74	19	28.94	155	27.26	7.24	16	4	.10	.4	1.5	KAO	1.1X		84	6
2001	OCT	24	2324	19.86	19	46.26	155	52.29	31.28	4711		.10	.8	1.4	HUAF	2.7X		203	31
2001	OCT	25	0015	33.73	19	14.22	155	15.47	0.02	22	5	.14	.9	.4	SSF #	1.0X		216	9
2001	OCT	25	0718	38.17	19	21.24	155	30.29	10.69	20	3	.08	.4	.9	KAO	1.0X		54	5
2001	OCT	25	0747	44.18	19	19.49	155	13.53	8.09	35	6	.11	.5	.8	SF2	1.5X		166	6
2001	OCT	25	0851	28.93	19	19.56	155	30.00	9.88	36	6	.09	.3	.7	KAO	1.6X		54	7
2001	OCT	25	0923	57.28	19	25.22	155	29.76	10.34	27	6	.09	.4	1.0	KAO	1.3X		42	6
2001	OCT	25	1054	16.98	19	2.56	155	23.03	32.78	23	4	.09	1.2	1.7	LOI	1.3X		240	15
2001	OCT	25	1623	32.48	19	14.69	156	20.47	41.69	14		.09	13.0	5.7	DIS -	1.9X		326	67
2001	OCT	25	1656	8.52	19	22.96	155	25.24	10.03	29	5	.11	.4	.8	KAO	1.2X		39	4
2001	OCT	25	1732	14.46	19	20.75	155	13.23	7.55	21	6	.14	.8	.9	SF2	.9X		171	3
2001	OCT	25	1846	56.08	19	20.85	155	10.79	7.66	21	4	.11	.7	.7	SF3	1.2X		188	3
2001	OCT	25	2010	12.44	19	37.88	156	0.71	40.67	20	5	.09	1.2	1.5	KON	1.3X		278	19
2001	OCT	26	0043	15.35	19	57.37	155	28.66	10.11	25	5	.12	1.1	.4	KEA	1.3X		245	16
2001	OCT	26	0121	43.25	19	12.04	155	29.43	33.30	29	8	.08	.7	1.1	DLS	1.4X		84	5
2001	OCT	26	0145	38.36	20	0.06	155	31.00	10.17	22	3	.07	1.0	.5	KEA	1.6U		184	22
2001	OCT	26	0206	40.12	19	25.56	155	36.63	3.10	15	5	.12	.4	.6	MLO	.9X		191	3
2001	OCT	26	0246	26.32	20	0.55	155	30.14	5.57	18	4	.13	.7	1.1	KEA	1.1X		193	21
2001	OCT	26	0339	40.42	19	57.86	155	29.90	10.34	30	6	.15	1.1	.6	KEA	1.6X		246	18
2001	OCT	26	0438	59.47	18	57.16	155	28.89	34.33	23	3	.08	1.3	1.8	DLS	1.8X		235	20
2001	OCT	26	0441	5.00	19	26.37	155	28.55	10.35	22	4	.09	.4	1.0	KAO	1.3X		42	7
2001	OCT	26	0806	44.56	19	8.91	155	36.34	0.87	23	2	.17	.6	1.0	LSW	1.5X		114	15
2001	OCT	26	1303	49.92	19	53.25	155	25.44	10.96	18	4	.14	.8	.6	KEA	1.1X		142	8

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	OCT	26	1751	55.46	19	21.66	155	20.87	14.63	4410		.10	.4	.4	DEP	1.9X		63	5
2001	OCT	26	1925	13.63	19	20.66	155	11.02	7.27	32	6	.11	.5	.5	SF3	1.2X		166	3
2001	OCT	26	1940	46.15	19	21.50	155	11.05	7.71	40	7	.16	.7	.6	SF3	1.7X		159	2
2001	OCT	26	2017	55.88	19	23.20	155	25.24	10.07	28	8	.10	.3	.8	KAO	.9X		56	4
2001	OCT	27	0615	16.42	19	18.92	155	30.49	7.44	28	6	.11	.3	1.4	LSW	1.2X		49	7
2001	OCT	27	0717	33.49	19	15.67	155	15.76	0.28	35	8	.11	.5	.3	SSF	1.4X		183	7
2001	OCT	27	0718	20.95	19	22.72	155	11.41	4.19	16	2	.13	.7	.9	SER	1.0X		123	3
2001	OCT	27	0837	29.41	18	52.99	155	13.04	7.36	20	1	.14	1.9	1.0	LOI	1.7X		262	40
2001	OCT	27	1230	6.04	19	29.09	154	53.59	0.06	26	3	.13	.3	.5	SLEF	1.8X		102	4
2001	OCT	27	1954	42.65	19	22.98	155	14.75	3.36	19	5	.07	.4	.3	SEC	1.6X		114	2
2001	OCT	27	2210	17.56	19	27.13	155	28.47	10.39	42	9	.08	.3	.5	KAO	2.0X		47	9
2001	OCT	27	2210	52.33	19	50.31	155	24.22	28.11	29	1	.08	.9	1.5	KEA	1.8X		158	9
2001	OCT	27	2219	41.64	19	9.80	155	25.10	39.70	25	7	.11	1.0	1.5	DLS	1.3X		175	5
2001	OCT	28	0807	58.20	19	19.84	155	10.37	7.27	33	3	.12	.6	.7	SF3	1.5X		172	4
2001	OCT	28	0854	22.39	19	18.10	155	27.13	10.16	22	3	.10	.4	.9	LSW	1.3X		62	8
2001	OCT	28	1220	12.89	19	29.51	155	26.21	4.11	24	4	.16	.4	1.7	KAO	1.5X		71	5
2001	OCT	28	1322	17.86	19	16.85	155	28.75	10.61	41	6	.14	.4	.6	LSW	1.8X		54	4
2001	OCT	28	1757	6.26	19	21.23	155	10.80	7.40	32	5	.13	.8	.5	SF3	1.5X		176	2
2001	OCT	28	2355	37.16	19	20.50	155	11.77	7.30	23	5	.09	.4	.6	SF3	1.2X		181	4
2001	OCT	29	0540	39.19	19	19.83	155	13.22	6.69	35	4	.13	.5	.8	SF2	1.5X		166	5
2001	OCT	29	0824	56.07	19	30.84	155	42.22	1.25	19	5	.11	.5	.7	MLO	1.2X		102	6
2001	OCT	29	0942	27.53	19	44.23	155	5.28	42.68	32	8	.11	.9	1.5	HIL	1.7X		198	29
2001	OCT	29	0956	32.54	19	28.00	155	8.39	36.02	24	5	.11	1.1	1.3	DEP	1.3X		254	2
2001	OCT	29	1324	11.30	19	13.85	155	26.03	6.38	21	4	.12	.5	1.5	LSW	1.1X		127	4
2001	OCT	29	1735	27.39	19	21.24	155	10.91	6.76	21	2	.12	.7	.8	SF3	1.2X		177	2
2001	OCT	29	2121	38.96	19	12.79	155	22.11	34.54	20		.10	.9	2.1	DEPT	1.7X		176	4
2001	OCT	30	0228	28.50	19	11.57	155	28.28	40.95	21	6	.10	1.1	1.4	DLS	1.2X		208	7
2001	OCT	30	0259	43.47	19	17.19	155	20.51	7.66	17	4	.12	.7	1.2	SWR	.9X		164	4
2001	OCT	30	0322	41.68	19	16.47	155	22.13	34.25	32	9	.12	.6	1.1	DEP	1.4X		174	5
2001	OCT	30	0411	14.42	19	59.40	155	31.54	4.65	17	6	.11	.8	3.3	KEA	1.0X		180	22
2001	OCT	30	0600	36.24	19	23.31	154	50.41	42.48	4611		.12	.9	.9	LER	2.0X		243	8
2001	OCT	30	0700	10.09	19	44.43	155	26.08	42.72	34	8	.08	.7	1.1	KEA	1.7X		96	5
2001	OCT	30	0751	13.16	19	26.98	155	28.32	10.62	16	5	.11	.6	1.3	KAO	.9X		73	8
2001	OCT	30	1306	37.34	19	19.48	155	14.30	26.23	22	2	.13	1.5	1.8	DEP	1.5X		183	6
2001	OCT	30	1433	28.31	19	16.45	155	2.46	42.71	42	9	.11	.8	.8	DEP	1.9X		213	15
2001	OCT	30	2103	6.86	19	21.99	155	8.72	7.03	33	4	.17	.6	.7	SF4	1.4X		165	2
2001	OCT	31	0018	34.90	19	28.58	155	28.06	6.73	37	7	.13	.3	1.3	KAO	1.6X		55	6
2001	OCT	31	0123	51.96	19	14.22	155	31.83	7.96	36	5	.13	.4	.7	LSW	1.9X		134	3
2001	OCT	31	0905	56.01	19	16.49	155	24.65	9.52	31	5	.12	.4	.7	SWR	1.4X		89	4
2001	OCT	31	1517	5.31	19	14.87	155	35.66	3.33	38	7	.17	.4	1.7	LSW	1.5X		103	10
2001	OCT	31	1655	49.17	19	25.89	155	17.77	13.19	28	6	.13	.6	.9	DEP	1.2X		116	1
2001	OCT	31	1958	8.36	19	21.59	155	18.56	1.29	20	5	.08	.3	.6	SWR	1.3X		55	4
2001	OCT	31	2146	7.69	19	12.27	155	31.19	11.46	29	5	.15	.8	.6	LSW	1.8U		187	6
2001	NOV	1	0227	0.46	19	17.77	155	32.14	10.39	23	8	.11	.4	.9	LSW	.9X		84	6
2001	NOV	1	0351	16.16	19	20.47	155	13.16	7.23	24	3	.11	.5	.9	SF2	1.0X		63	4

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	NOV	1	0824	4.74	19	13.43	155	31.59	5.54	23	5	.16	.5	1.4	LSW	1.1X		116	4
2001	NOV	1	1152	53.54	20	1.73	155	43.00	17.20	26	5	.17	1.8	17.2	KOH -	1.5X		272	39
2001	NOV	1	1223	37.39	19	20.21	155	7.10	7.82	22	5	.12	.6	1.0	SF4	1.3X		138	5
2001	NOV	1	1443	42.91	19	34.24	155	9.13	24.74	17	5	.10	.6	1.9	DEP	1.6X		76	10
2001	NOV	1	1856	11.77	19	26.59	155	9.37	35.36	21	8	.09	1.2	.9	DEP	1.2X		192	4
2001	NOV	1	1922	15.64	19	19.78	155	11.73	7.41	32	8	.12	.4	.7	SF3	1.2X		87	5
2001	NOV	1	2031	43.93	20	0.28	155	44.91	8.28	23	4	.09	.8	.8	KOH	1.4X		151	14
2001	NOV	1	2209	49.44	19	23.14	155	14.80	3.13	19	4	.07	.3	.3	SEC	1.6X		65	2
2001	NOV	2	0038	29.20	19	51.20	156	12.43	43.45	37	7	.12	1.3	2.2	HUA	2.2X		201	43
2001	NOV	2	0241	28.73	19	18.82	155	12.96	33.50	44	8	.11	.7	.9	DEP	1.7X		89	3
2001	NOV	2	0315	29.84	19	30.59	155	51.35	6.08	16	3	.14	1.0	5.1	KON	.9X		184	10
2001	NOV	2	0418	8.78	19	22.99	155	16.90	12.22	31	6	.10	.5	.6	INT	1.1X		48	2
2001	NOV	2	0551	15.12	19	34.37	155	21.84	9.07	26	6	.13	.4	.8	MLO	1.1X		64	9
2001	NOV	2	0732	6.42	19	16.99	155	31.22	7.49	29	5	.15	.5	1.4	LSW	1.3X		142	4
2001	NOV	2	1054	57.29	19	24.37	155	17.12	9.18	28	5	.16	.5	.6	INTL	2.0X		46	1
2001	NOV	2	1152	52.42	19	10.88	155	24.64	38.89	50	12	.09	.8	.9	DEP	2.2X		179	6
2001	NOV	2	1446	11.60	19	12.90	155	32.63	4.90	34	8	.20	.5	2.1	LSW	1.4X		81	6
2001	NOV	2	1647	43.54	19	26.27	154	49.26	8.55	34	6	.13	1.1	.4	LER	2.0X		266	4
2001	NOV	2	2058	10.90	19	19.52	155	12.50	7.06	26	1	.09	.5	.9	SF2	1.4X		85	5
2001	NOV	2	2237	23.85	19	25.87	155	22.33	10.50	31	8	.09	.4	.6	KAO	1.1X		55	4
2001	NOV	3	0044	21.21	19	20.37	155	4.19	6.67	29	2	.15	.7	1.0	SF5	1.2X		170	7
2001	NOV	3	0046	6.32	19	44.96	155	32.94	15.75	16	2	.05	.7	.8	KEA	1.4X		156	10
2001	NOV	3	0106	6.98	19	25.50	155	30.48	11.95	17	3	.06	.5	1.2	KAO	1.1X		68	7
2001	NOV	3	0442	22.42	19	32.04	155	52.17	8.69	21	3	.12	.7	.6	KON	1.5X		205	11
2001	NOV	3	0518	22.67	19	18.52	154	58.75	39.23	45	10	.12	.9	1.1	LER	1.6X		206	12
2001	NOV	3	0737	18.04	19	49.24	155	23.24	20.53	15	3	.11	1.4	1.7	KEA #	1.5X		151	9
2001	NOV	3	1022	32.86	19	27.01	155	27.64	10.56	21	5	.10	.4	1.2	KAO	1.1X		66	8
2001	NOV	3	1239	53.85	19	24.02	155	17.96	3.18	16	4	.08	.7	.7	SSC	1.2X		77	2
2001	NOV	3	1601	12.76	19	15.00	155	16.03	39.42	16		.06	2.4	4.3	DEP	1.3X		215	6
2001	NOV	3	1747	20.92	19	25.12	155	29.64	10.81	14	2	.11	.7	1.4	KAO	1.3X		86	6
2001	NOV	3	1747	31.08	19	13.72	155	26.26	6.40	16	2	.15	.5	1.2	LSW	1.0X		122	4
2001	NOV	3	1759	53.52	19	13.13	155	32.32	6.26	32	3	.14	.5	1.0	LSW	1.4X		77	5
2001	NOV	3	1948	37.77	19	23.34	155	16.72	3.15	41	8	.11	.3	.2	SSC	2.2X		46	0
2001	NOV	3	1949	22.54	19	10.32	155	41.72	9.22	19	1	.12	.6	2.4	LSW	2.0X		113	8
2001	NOV	3	2125	6.74	19	19.69	155	27.41	10.60	25	4	.12	.4	.6	KAO	1.2X		82	5
2001	NOV	3	2158	32.27	19	12.01	155	16.20	48.62	21	4	.09	1.0	2.0	DEP	1.4X		203	10
2001	NOV	3	2159	5.60	19	12.21	155	17.27	47.83	34	4	.09	.7	1.3	DEP	2.0X		180	11
2001	NOV	3	2328	8.69	19	20.78	155	6.75	5.74	29	3	.11	.5	.8	SF4	1.3X		134	5
2001	NOV	4	0211	3.10	19	20.16	155	13.07	5.99	23	2	.10	.5	.9	SF2	.9X		67	5
2001	NOV	4	0522	55.24	19	25.75	155	17.32	14.00	21	6	.12	.7	.6	DEPL	1.9X		123	1
2001	NOV	4	0702	5.12	19	20.45	155	12.31	6.12	16	1	.07	.6	1.0	SF2	1.0X		74	4
2001	NOV	4	1853	41.25	19	17.99	155	13.06	5.60	30	4	.12	.4	.9	SF2	1.2X		105	2
2001	NOV	4	1903	21.15	19	20.06	155	6.48	7.53	21	3	.11	.6	.7	SF4	1.1X		153	6
2001	NOV	4	1930	30.75	19	18.34	155	47.60	11.22	45	8	.10	.5	.4	KONF	2.8X		111	9
2001	NOV	4	1931	47.47	19	18.36	155	47.23	8.86	21	2	.12	.8	1.2	KON	1.9X		193	14
2001	NOV	4	2036	10.98	19	39.40	155	52.94	29.25	27	7	.12	.9	1.3	HUA	1.5X		246	6
2001	NOV	5	0012	59.45	19	24.82	155	28.90	8.89	29	3	.08	.3	.9	KAO	1.2X		40	5
2001	NOV	5	0507	44.04	19	37.96	155	57.40	15.70	32	6	.13	1.3	.8	KON	1.9X		264	14
2001	NOV	5	0509	56.79	19	37.29	155	55.49	15.71	45	8	.13	.7	.9	KONF	2.5X		130	11
2001	NOV	5	0512	28.44	19	23.94	155	17.14	12.67	14	4	.18	1.2	1.3	INTL	2.2X		52	1
2001	NOV	5	0644	30.72	19	19.29	155	9.09	7.53	22	1	.09	.5	1.0	SF4	1.2X		92	4
2001	NOV	5	1128	53.20	20	2.82	156	5.16	7.74	29	6	.20	1.1	1.2	KOH	2.0X		177	33
2001	NOV	5	1527	56.50	19	23.58	155	17.80	27.55	23	5	.11	.9	1.4	DEP	1.2X		96	3
2001	NOV	6	0207	5.75	19	23.44	155	22.65	10.36	14	2	.06	.6	1.5	KAO	.8X		72	6
2001	NOV	6	0256	2.10	19	22.05	155	13.07	3.45	15	2	.03	.4	.4	SER	1.6X		52	1
2001	NOV	6	0322	18.54	19	29.00	155	28.46	7.87	29	7	.11	.3	1.1	KAO	1.3X		66	6
2001	NOV	6	0505	16.40	19	24.46	155	17.17	11.50	22	4	.14	.6	.7	INTL	1.8X		47	1
2001	NOV	6	0737	5.47	19	30.85	155	51.92	27.63	19	4	.13	1.7	1.2	KON	1.2X		270	11
2001	NOV	6	0825	31.95	19	19.59	155	8.55	8.06	20	3	.08	.6	1.0	SF4	1.2X		124	4
2001	NOV	6	1101	2.83	19	28.31	155	25.90	8.01	16	4	.11	.4	1.4	KAO	1.2X		78	5
2001	NOV	6	1430	1.04	19	24.31	155	17.77	8.07	14	3	.13	.6	1.0	INTL	1.9X		85	2
2001	NOV	6	1525	6.17	19	23.18	155	14.88	2.79	18	3	.08	.3	.4	SEC	1.4X		70	2
2001	NOV	6	1525	40.21	19	23.29	155	14.83	3.55	19	4	.09	.4	.5	SEC	1.4X		134	2
2001	NOV	6	1703	49.75	19	33.83	155	57.98	37.88	20	3	.13	1.5	2.0	KON	1.4X		249	19
2001	NOV	7	0015	16.41	19	22.05	155	4.31	7.00	29	4	.14	.6	.7	SF5	1.1X		158	4
2001	NOV	7	0142	49.45	19	50.99	155	22.32	29.83	29	7	.10	.7	1.2	KEA	1.4X		144	5
2001	NOV	7	0415	25.18	19	23.61	155	2.81	7.38	23	1	.13	1.3	.7	SF5	1.5X		182	3
2001	NOV	7	0529	48.55	19	18.13	155	0.20	38.56	39	4	.11	.9	1.4	DEP	2.0X		202	13
2001	NOV	7	0933	7.21	19	19.33	155	8.46	7.15	25	2	.11	.5	1.0	SF4	1.3X		127	4
2001	NOV	7	1133	42.24	19	32.41	155	51.26	9.16	14	3	.12	.8	1.6	KON	1.0X		135	9
2001	NOV	7	1138	50.72	19	36.14	156	33.36	33.53	38	7	.13	1.5	2.8	DIS	2.4X		288	68
2001	NOV	7	1433	38.28	19	22.95	155	30.61	11.63	27	4	.12	.5	1.1	KAO	1.3X		51	5
2001	NOV	7	1604	14.18	19	19.20	155	13.01	4.01	38	6	.13	.3	1.1	SSF	1.7X		81	4
2001	NOV	7	1620	54.87	19	19.16	155	12.25	7.11	27	6	.15	.5	1.0	SF3	1.1X		96	4
2001	NOV	7	1701	15.84	19	19.65	155	12.83	8.50	36	3	.13	.4	.6	SF2	1.5X		116	6
2001	NOV	7	1826	58.51	19	19.12	155	12.86	5.53	39	6	.14	.4	1.0	SF2	1.2X		86	4
2001	NOV	7	1831	35.11	19	18.67	155	15.69	3.75	24	3	.11	.3	1.4	SSF	1.1X		104	5
2001	NOV	7	2001	16.38	19	17.75	155	47.40	7.39	23	6	.14	.8	2.6	KON	.9X		196	15
2001	NOV	7	2119	25.98	19	19.96	155	10.83	6.33	35	6	.13	.5	.9	SF3	1.2X		88	4
2001	NOV	7	2230	29.31	19	10.39	155	37.90	7.06	22	4	.16	.6	1.7	LSW	1.2X		95	14
2001	NOV	8	0333	11.95	20	4.87	155	31.37	43.60	34	10	.10	.9	1.1	KEA	1.7X		270	28
2001	NOV	8	0439	38.66	19	18.32	155	13.96	3.99	22	4	.09	.4	.9	SSF	.8X		89	3
2001	NOV	8	0537	41.41	19	23.14	155	14.66	3.32	16	6	.09	.4	.4	SEC	1.3X		95	3
2001	NOV	8	1445	53.05	19	19.80	155	11.66	10.30	51	12	.11	.4	.4	SF3F	2.8X		88	5
2001	NOV	8	1750	27.84	19	10.60	155	38.76	5.66	27	4	.12	.4	3.6	LSW	1.2X		90	13
2001	NOV	8	1923	4.24	19	18.40	155	13.17	9.17	37	3	.11	.5	.6	SF2	1.6X		137	8
2001	NOV	8	2212	36.07	19	24.60	155	17.12	6.87	20	1	.11	.5	.7	INTL	1.9X		50	1
2001	NOV	9	0402	52.20	19	12.48	155	13.61	48.98	18	4	.11	1.4	1.5	DEP	1.1X		277	13
2001	NOV	9	0901	29.62	19	19.33	155	11.20	6.47	31	5	.10	.4	.9	SF3	1.4X		102	6
2001	NOV	9	1132	53.81	19	20.52	155	10.69	7.26	24	2	.10	.5	.8	SF3	1.6X		95	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	NOV	9	1706	44.25	19	22.43	155	4.89	8.73	37	3	.10	.6	.4	SF5	2.2X		142	4
2001	NOV	9	2040	56.05	19	20.85	155	13.18	7.87	26	1	.12	.5	.9	SF2	1.2X		62	3
2001	NOV	9	2113	29.62	19	27.69	155	16.08	10.06	25	4	.10	.7	.8	INTL	2.2X		145	5
2001	NOV	9	2320	5.31	19	22.55	155	4.67	7.62	39	6	.12	.4	.4	SF5	1.9X		142	3
2001	NOV	10	0504	26.47	19	24.84	155	19.12	6.01	16	4	.07	.6	1.2	KAO	1.1X		106	3
2001	NOV	10	0626	20.82	19	19.93	155	16.80	7.23	27	4	.11	.4	.8	SF1	1.3X		90	5
2001	NOV	10	1058	44.20	19	29.97	155	15.56	19.29	19	3	.09	1.3	.9	DEPL	2.4X		194	9
2001	NOV	10	1307	58.03	19	47.92	155	47.11	21.78	18	2	.14	1.3	2.9	HUA	1.2X		232	14
2001	NOV	10	2339	37.10	19	16.63	155	7.32	40.90	4811		.11	.8	.9	DEP	2.2X		187	2
2001	NOV	11	0330	0.23	19	25.02	155	15.81	11.20	25	3	.12	.7	.5	INTL	2.3X		116	2
2001	NOV	11	0756	4.53	19	11.75	155	27.85	10.34	23	3	.08	.5	.6	LSW	1.9U		129	4
2001	NOV	11	1248	34.50	19	27.42	155	13.43	36.12	37	6	.12	.6	1.1	DEP	1.8X		51	8
2001	NOV	11	1309	39.31	19	38.49	155	49.58	15.70	18	4	.15	1.1	1.0	KON	1.5X		121	5
2001	NOV	11	1454	34.30	19	18.70	155	13.14	6.76	34	5	.11	.5	1.0	SF2	1.6X		86	3
2001	NOV	11	1714	30.20	19	25.38	155	17.28	8.57	19	3	.11	.6	.5	INTL	2.0X		119	1
2001	NOV	12	0033	47.69	21	18.18	156	19.39	32.94	9	1	.04	5.5	3.1	DIS	2.2X		319	63
2001	NOV	12	1125	29.03	19	20.38	155	7.03	7.67	49	8	.12	.5	.5	SF4	2.5X		133	6
2001	NOV	12	1136	49.31	19	22.64	155	19.60	0.03	21	4	.10	.3	.4	KAOL#	2.0X		65	5
2001	NOV	12	1353	19.77	20	49.52	156	50.06	6.53	14		.06	11.6	3.1	DIS -	2.4X		316	48
2001	NOV	13	0231	22.34	19	24.79	155	16.11	12.38	20	3	.10	.6	.7	INTL	2.1X		106	2
2001	NOV	13	0841	54.38	19	14.68	155	4.10	47.59	5412		.12	.8	.9	DEP	2.9X		203	8
2001	NOV	13	1453	27.37	19	25.32	155	16.83	9.93	23	5	.09	.5	.6	INTL	1.9X		111	1
2001	NOV	13	1545	42.52	19	21.10	155	18.10	5.43	15	2	.07	.6	1.5	SWR	1.2X		70	2
2001	NOV	13	1738	13.08	19	23.67	155	15.24	2.91	13	5	.09	.4	.7	SEC	1.1X		169	2
2001	NOV	13	2258	19.88	19	20.83	155	13.10	7.93	36	5	.09	.4	.5	SF2	1.2X		61	3
2001	NOV	14	0056	6.48	19	19.50	155	11.98	7.36	22	2	.10	.5	.9	SF3	1.2X		91	5
2001	NOV	14	0133	30.58	19	24.76	155	20.68	2.11	22	5	.09	.3	.8	KAO	1.2X		77	5
2001	NOV	14	0945	15.01	19	23.62	155	15.29	4.35	14	4	.20	.6	.8	SECL	1.9X		157	2
2001	NOV	14	2206	28.25	19	20.70	155	13.26	7.94	25	2	.12	.5	.8	SF2	1.4X		61	4
2001	NOV	14	2227	55.03	19	25.53	155	16.81	9.36	21	4	.13	.5	.8	INTL	2.0X		74	1
2001	NOV	14	2322	54.82	19	18.47	154	59.64	39.69	34	5	.11	1.0	1.4	LER	1.8X		228	13
2001	NOV	15	0127	22.17	19	21.81	155	4.34	6.93	23	3	.13	.7	.8	SF5	1.2X		160	5
2001	NOV	15	0517	40.23	19	20.76	155	12.96	7.77	25	2	.12	.5	.7	SF2	1.0X		63	3
2001	NOV	15	0529	56.69	19	23.63	155	17.03	2.77	16	6	.09	.5	.2	SSC	1.4X		76	0
2001	NOV	15	1037	45.31	19	20.82	155	9.98	6.56	24	2	.11	.5	1.0	SF3	1.0X		94	2
2001	NOV	15	1221	36.08	20	50.34	156	20.42	28.61	28	6	.12	1.6	.9	DIS	2.7X		288	13
2001	NOV	15	1223	21.76	19	12.11	155	33.01	7.34	20	2	.14	1.0	1.5	LSW	1.4X		207	7
2001	NOV	15	1244	0.38	19	12.51	155	31.87	6.62	21	2	.11	.5	1.1	LSW	1.4X		129	6
2001	NOV	15	1246	59.60	19	23.31	155	19.63	9.70	16	4	.09	.7	1.3	KAOL	1.5X		68	5
2001	NOV	15	1338	40.62	19	24.48	155	18.93	15.78	20	4	.12	1.0	.6	DEPL	2.1X		81	3
2001	NOV	15	1414	48.71	19	19.14	155	28.24	10.99	5112		.13	.3	.4	KAO	2.8X		42	6
2001	NOV	16	0105	48.09	19	12.43	155	34.90	6.63	32	2	.15	.4	1.3	LSW	1.7X		121	10
2001	NOV	16	0230	29.86	19	19.53	155	9.20	8.11	26	2	.08	.4	.6	SF3	1.4X		91	5
2001	NOV	16	0408	2.12	19	27.21	155	28.05	9.26	21	3	.11	.4	1.3	KAO	1.3X		56	9
2001	NOV	16	0413	48.47	19	25.55	155	17.08	6.85	28	4	.11	.4	.5	INTL	2.3X		65	1
2001	NOV	16	0845	15.31	19	27.52	155	25.81	6.01	19	2	.10	.4	2.0	KAO	1.3X		65	6
2001	NOV	16	1241	44.56	19	24.20	155	20.11	1.74	18	4	.08	.3	.8	KAO	1.1X		72	5
2001	NOV	16	2013	40.49	19	21.11	155	30.01	8.00	23	3	.08	.4	1.2	KAO	1.3X		51	5
2001	NOV	16	2313	46.24	19	24.47	155	17.25	10.78	15	3	.08	.6	.8	INTL	2.1X		80	2
2001	NOV	17	0005	46.24	19	8.64	155	10.21	37.69	22	4	.10	1.7	1.2	LOI	1.4X		283	16
2001	NOV	17	0012	35.73	19	21.40	155	29.93	8.98	36	8	.11	.3	.9	KAO	1.2X		39	5
2001	NOV	17	0142	8.52	19	20.21	155	7.00	5.44	22	4	.10	.6	1.3	SF4	.9X		142	6
2001	NOV	17	0409	24.38	19	45.94	155	25.79	22.54	22	6	.13	1.1	1.2	KEA	1.3X		226	3
2001	NOV	17	0542	54.89	19	20.99	155	5.69	4.78	28	3	.16	.6	2.4	SSF	1.2X		154	6
2001	NOV	17	1458	20.10	19	14.01	155	26.32	6.68	25	6	.14	.4	1.2	LSW	.9X		118	4
2001	NOV	17	1909	26.11	19	31.54	155	22.06	1.72	12	2	.10	.5	1.0	MLO	.9X		199	4
2001	NOV	17	2123	45.72	19	22.04	155	30.07	10.64	24	4	.13	.5	1.1	KAO	1.0X		37	4
2001	NOV	17	2237	3.31	19	24.76	155	16.40	0.89	15	3	.26	.6	.4	SNCL	1.6X		115	1
2001	NOV	18	0740	54.69	19	20.68	155	8.18	7.31	27	3	.11	.4	.9	SF4	1.0X		113	4
2001	NOV	18	1143	10.57	19	33.04	155	37.16	10.45	20	2	.13	.8	.9	MLO	1.4X		172	4
2001	NOV	18	2004	32.63	19	5.22	155	6.06	36.77	34	7	.11	1.2	1.9	LOI	1.9X		250	23
2001	NOV	18	2005	44.14	19	20.60	155	10.92	6.32	21	2	.12	1.0	1.3	SF3	1.0X		179	5
2001	NOV	19	0035	31.05	19	20.04	155	9.09	8.28	17		.05	.5	.9	SF4	1.2X		96	4
2001	NOV	19	0119	24.38	19	15.34	155	31.52	31.03	16	1	.06	.9	3.0	DLS	1.2X		97	3
2001	NOV	19	0121	43.94	19	26.44	155	17.35	9.99	16	4	.11	.7	.9	INTL	2.4X		133	2
2001	NOV	19	0705	15.23	19	20.66	155	10.03	6.77	23	3	.11	.5	.8	SF3	1.2X		93	3
2001	NOV	19	1220	50.43	19	44.94	155	25.15	29.04	16	5	.08	.7	1.5	KEA	1.2X		139	17
2001	NOV	19	1249	43.07	19	19.16	155	15.54	7.24	36	5	.13	.4	.7	SF1	1.8X		92	4
2001	NOV	19	1612	59.15	19	12.41	155	37.81	2.09	26	4	.18	.5	1.2	LSW	1.3X		90	14
2001	NOV	19	2105	43.82	19	20.25	155	7.35	7.74	32	5	.10	.4	.6	SF4	1.3X		128	5
2001	NOV	20	0439	2.71	19	30.71	155	55.52	12.59	33	7	.11	.8	.5	KON	2.0X		228	21
2001	NOV	20	0536	56.73	19	17.92	155	13.76	4.39	17		.11	.5	1.1	SSF	1.1X		76	2
2001	NOV	20	0714	28.11	19	22.36	155	29.44	8.87	20	1	.10	.4	.9	KAO	1.6X		44	3
2001	NOV	20	0941	47.23	19	17.73	155	13.54	5.15	29	7	.10	.4	.7	SF2	1.3X		80	1
2001	NOV	20	1006	28.71	19	22.92	155	5.60	5.41	23		.13	.7	1.1	SF4	1.3X		161	4
2001	NOV	20	1118	29.60	19	19.63	155	13.03	5.78	29	3	.11	.4	1.0	SF2	1.4X		75	5
2001	NOV	20	1534	15.96	19	29.46	154	50.87	3.45	11		.09	2.7	1.7	SLE	1.3X		159	1
2001	NOV	20	1601	19.58	18	56.66	155	13.16	12.49	19		.11	2.3	.8	LOI	1.9X		251	35
2001	NOV	20	1621	47.65	19	16.84	155	28.82	9.05	23	3	.17	.6	1.0	LSW	1.2X		78	4
2001	NOV	20	1736	24.97	19	14.93	155	33.05	10.12	20	4	.13	.5	1.1	LSW	1.1X		112	5
2001	NOV	20	2030	37.55	18	56.41	155	24.70	40.36	24	6	.09	1.4	1.7	LOI	1.4X		289	25
2001	NOV	20	2235	44.99	19	17.82	155	13.44	4.57	33	5	.11	.4	.7	SSF	1.1X		88	1
2001	NOV	21	0014	19.52	19	24.58	155	17.02	9.70	20	3	.13	.6	.8	INTL	2.0X		56	1
2001	NOV	21	0349	37.03	19	24.36	155	16.78	1.32	16	4	.09	.4	.2	SSC	1.5X		80	1
2001	NOV	21	0909	12.34	19	30.32	155	44.20	4.61	21	7	.12	.6	1.4	KON	1.0X		123	3
2001	NOV	21	1038	48.94	19	14.46	155	26.81	8.52	27	3	.11	.4	.7	LSW	1.5X		100	5
2001	NOV	21	1451	17.18	19	14.35	155	27.89	5.67	16	2	.16	.5	1.9	LSW	1.5X		89	4
2001	NOV	21	1629	26.08	19	26.37	156	2.60	9.08	17	2	.12	2.1	.6	KON	1.3U		260	14
2001	NOV	21	1902	27.91	20	2.52	155	35.10	22.45	16	3	.11	1.4	3.1	KOH	1.6X		219	22
2001	NOV	21	1908	0.33	19	23.81	155	17.62	8.30	16	4	.12	.6	.8	INTL	2.0X		74	2

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	NOV	21	2151	56.39	19	25.78	155	15.97	2.37	19	5	.11	.4	.5	SNC	1.9X		125	2
2001	NOV	21	2311	59.70	19	36.08	155	18.96	12.11	21	4	.13	.6	1.0	KEA	1.4X		105	14
2001	NOV	21	2325	6.11	19	20.39	155	19.13	2.76	21	5	.11	.3	.9	SWR	1.3X		54	5
2001	NOV	22	0226	11.55	19	17.91	155	30.37	9.18	23	3	.13	.4	.9	LSW	1.2X		65	5
2001	NOV	22	0259	14.15	19	24.65	155	19.05	8.28	17	4	.11	.6	1.4	KAO	1.1X		99	3
2001	NOV	22	0332	23.88	19	12.94	155	26.54	37.93	31	5	.09	.7	1.4	DLS	1.4X		126	5
2001	NOV	22	0437	40.56	20	0.46	155	31.65	0.54	29	5	.13	.8	.3	KEA	2.1X		185	26
2001	NOV	22	0820	37.06	19	22.01	155	15.00	10.41	27	6	.09	.5	.7	SF1	1.7X		58	2
2001	NOV	22	1155	21.79	19	24.64	155	19.34	6.81	25	5	.09	.4	1.0	KAO	1.3X		67	3
2001	NOV	22	1201	54.96	19	24.71	155	19.18	6.89	21	3	.09	.5	1.3	KAO	1.3X		91	3
2001	NOV	22	1826	1.87	19	20.17	155	10.80	6.97	18	1	.09	.6	1.1	SF3	1.0X		93	4
2001	NOV	22	2128	1.89	19	25.83	155	13.70	28.09	42	6	.10	.5	.8	DEP	1.6X		65	6
2001	NOV	23	0003	58.51	19	9.69	155	26.42	31.03	42	9	.07	.6	1.0	DLS	1.5X		165	3
2001	NOV	23	0454	52.44	19	32.83	155	44.60	3.58	15	3	.11	.7	2.2	KON	1.2X		119	5
2001	NOV	23	0641	20.55	19	13.73	155	36.29	7.56	25	8	.13	.4	2.2	LSW	1.1X		88	11
2001	NOV	23	0718	54.62	20	13.34	155	25.66	38.18	27	4	.10	1.0	2.1	KEA	1.7X		202	38
2001	NOV	23	0809	10.40	19	18.48	155	15.32	7.73	23	7	.09	.4	.7	SF1	1.0X		115	4
2001	NOV	23	0845	47.46	19	33.07	155	38.33	8.00	30	7	.11	.6	1.1	MLO	1.4X		172	8
2001	NOV	23	0854	26.79	19	11.31	155	18.97	45.57	43	8	.10	.7	1.1	DEP	2.0X		180	10
2001	NOV	23	1419	45.10	19	26.98	155	28.79	13.21	19	5	.12	.6	1.3	DML	1.3X		77	8
2001	NOV	23	1811	47.42	19	24.90	155	19.57	3.35	17	4	.09	.6	1.1	KAO	1.0X		96	4
2001	NOV	24	0001	17.53	19	27.16	155	29.11	10.59	18	3	.10	.6	1.4	KAO	.9X		76	8
2001	NOV	24	0329	31.43	19	13.14	155	20.94	46.29	37	9	.12	.7	1.1	DEP	1.6X		161	6
2001	NOV	24	0413	15.36	19	26.76	155	29.13	10.74	18	5	.10	.4	1.1	KAO	1.0X		82	8
2001	NOV	24	0630	40.09	18	56.18	155	12.96	13.09	19	1	.10	1.9	1.0	LOI	1.7X		249	36
2001	NOV	24	0726	11.41	19	55.98	155	41.96	3.61	11	3	.10	.7	2.1	KOH	1.3X		166	23
2001	NOV	24	1109	14.88	19	1.34	155	23.40	41.02	23	6	.12	1.3	1.4	LOI	1.5X		218	17
2001	NOV	24	1220	21.51	19	23.86	155	28.84	10.19	18	4	.10	.5	1.0	KAO	.9X		98	3
2001	NOV	24	1237	19.70	19	11.99	155	31.36	5.75	21	6	.17	.9	1.7	LSW	1.1X		198	6
2001	NOV	24	1349	13.38	19	45.35	155	20.91	13.23	23	5	.12	.4	.3	KEA	1.3X		98	12
2001	NOV	24	1400	41.76	19	23.96	155	28.84	10.46	20	4	.10	.5	1.0	KAO	1.2X		103	3
2001	NOV	24	2019	38.31	19	13.20	155	32.48	5.90	38	5	.13	.4	1.3	LSW	2.1X		77	5
2001	NOV	24	2119	21.90	19	20.41	155	19.85	34.18	33	7	.13	.7	1.2	DEP	1.5X		60	5
2001	NOV	24	2146	17.17	19	26.47	155	14.15	2.58	26	4	.12	.5	1.0	SNCL	2.0X		196	6
2001	NOV	24	2158	37.80	19	12.13	155	26.43	38.90	28	7	.11	.8	1.1	DLS	1.3X		140	5
2001	NOV	24	2205	1.63	19	23.53	155	18.72	7.56	14	4	.15	.8	1.1	INTL	1.5X		93	4
2001	NOV	25	0101	24.02	19	9.65	155	32.87	48.43	19		.11	1.6	3.6	DLST	1.6X		178	9
2001	NOV	25	0113	12.28	19	10.01	155	33.78	52.06	35	8	.16	.8	1.3	DLS	1.6X		113	10
2001	NOV	25	0631	26.61	19	11.96	155	39.71	4.83	25	6	.14	.4	4.8	LSW	1.4X		96	12
2001	NOV	25	1357	47.19	19	23.78	155	16.81	3.36	15	3	.07	.6	.3	SSC	1.3X		77	0
2001	NOV	25	1551	38.02	19	23.11	155	16.45	10.37	15	3	.12	.6	.9	INTL	1.9X		92	1
2001	NOV	25	1603	26.97	19	25.04	155	19.83	6.13	40	7	.10	.3	.7	KAO	1.9X		46	4
2001	NOV	25	1815	28.63	19	12.67	155	26.76	38.18	28	4	.09	.9	1.5	DLS	1.2X		124	6
2001	NOV	25	2021	19.85	18	56.39	155	23.83	35.96	20	2	.08	1.6	2.2	LOI	1.6X		255	25
2001	NOV	26	0131	54.85	19	23.89	155	15.06	0.02	9	2	.07	.3	.6	SECL#	1.7X		159	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	NOV	26	0334	49.02	19	12.78	155	26.64	38.74	30	4	.10	.8	1.5	DLS	1.4X		125	5
2001	NOV	26	0712	44.75	19	17.56	155	37.49	9.22	17	2	.12	.5	1.7	LSW	1.4X		104	8
2001	NOV	26	0840	54.75	19	30.19	155	43.43	7.55	21	4	.14	.6	1.4	KON	1.3X		121	4
2001	NOV	26	1035	7.81	19	23.58	155	17.81	7.77	13	2	.08	.8	.9	INTL	1.6X		65	2
2001	NOV	26	1109	39.67	19	31.41	155	42.57	2.37	16	3	.14	.5	1.5	MLO	1.2X		104	6
2001	NOV	26	1131	37.60	19	27.54	155	27.86	10.76	20	4	.09	.4	1.2	KAO	1.3X		60	8
2001	NOV	26	1732	5.88	18	44.47	155	27.20	16.78	28	6	.11	1.2	15.0	DLS -	1.7X		292	46
2001	NOV	26	1759	59.93	19	24.10	155	17.58	7.48	12	2	.15	1.0	1.2	INTL	2.1X		82	2
2001	NOV	27	0559	16.81	19	25.67	155	15.49	8.63	13	3	.11	.7	1.0	INTL	2.1X		124	3
2001	NOV	27	1000	31.70	19	19.01	154	58.82	39.44	26	5	.09	1.4	1.3	LER	1.9X		237	11
2001	NOV	27	1141	58.72	18	45.01	155	10.94	20.03	21	5	.22	2.0	17.4	LOI -	2.1X		278	54
2001	NOV	27	1234	3.01	19	58.60	155	33.07	1.54	15	3	.09	.6	.8	KEA	1.4X		167	24
2001	NOV	27	1304	39.92	19	23.82	155	16.44	7.98	11	3	.10	.7	.9	INTL	1.9X		104	0
2001	NOV	27	2003	15.12	19	20.78	155	7.76	7.82	21	6	.13	.4	.9	SF4	1.2X		121	4
2001	NOV	27	2113	30.35	19	25.50	155	17.52	2.63	12	3	.11	.7	.2	SNCL	2.0X		119	0
2001	NOV	27	2114	55.71	19	28.60	155	26.87	8.24	17	5	.11	.4	1.3	KAO	1.3X		71	6
2001	NOV	27	2120	50.46	19	19.55	155	8.55	6.51	34	4	.10	.4	.8	SF4	1.5X		106	4
2001	NOV	27	2136	48.44	19	25.47	155	15.67	3.88	10	2	.12	.9	1.3	SNCL	1.7X		122	3
2001	NOV	27	2300	10.78	19	28.57	155	25.25	7.26	44	7	.12	.3	.6	KAO	2.1X		62	4
2001	NOV	28	0034	42.06	19	24.08	155	14.84	5.75	15	3	.11	.6	.9	INT	1.6X		150	3
2001	NOV	28	0050	49.02	19	30.92	155	51.82	4.30	15	5	.11	.8	5.4	KON	1.0X		124	6
2001	NOV	28	0114	44.74	19	24.43	154	49.99	43.70	41	6	.12	1.1	1.2	LER	2.0X		247	6
2001	NOV	28	0233	34.08	19	23.96	155	16.54	11.42	22	4	.14	.7	.9	INTL	2.0X		80	0
2001	NOV	28	0632	32.52	19	18.00	155	29.77	8.35	19	3	.15	.6	1.5	LSW	.9X		118	9
2001	NOV	28	1016	18.61	19	25.40	155	15.95	12.31	14	2	.09	.8	.9	INTL	1.9X		120	2
2001	NOV	28	1016	22.09	20	8.87	155	45.19	22.55	15	6	.27	1.5	1.5	KOH	1.8X		168	4
2001	NOV	28	1533	56.90	19	24.60	155	29.67	8.92	21	3	.10	.4	1.1	KAO	1.2X		70	5
2001	NOV	28	1925	28.08	19	26.67	155	16.16	13.22	12	4	.13	1.1	1.2	DEPL	1.7X		239	3
2001	NOV	28	2020	45.42	19	25.32	155	17.07	8.77	16	5	.13	.7	.8	INTL	2.4X		118	1
2001	NOV	28	2055	57.51	19	20.48	155	11.02	9.75	23	3	.07	.5	.7	SF3	1.1X		78	4
2001	NOV	28	2133	26.09	19	15.68	155	31.88	0.91	38	6	.14	.3	.5	LSW	2.7U		57	13
2001	NOV	29	0451	5.14	19	23.80	155	2.38	7.10	13	1	.10	1.0	.8	SF5	1.5X		191	3
2001	NOV	29	0706	10.69	19	48.56	156	33.35	27.61	29	2	.14	2.3	5.0	DIS	2.6X		235	76
2001	NOV	29	0729	13.93	19	17.48	155	15.78	3.82	17	2	.10	.5	1.0	SSF	1.0X		148	4
2001	NOV	29	1116	5.66	19	24.70	155	17.05	7.31	12	3	.12	.8	.5	INTL	2.1X		92	0
2001	NOV	29	1149	54.45	19	18.89	155	29.94	8.25	39	5	.13	.4	.8	LSW	1.7X		55	7
2001	NOV	29	1444	8.66	19	22.95	155	14.50	3.53	21	4	.09	.3	.4	SEC	1.7X		67	3
2001	NOV	29	1444	42.33	19	23.11	155	14.50	3.57	19	5	.08	.3	.4	SEC	2.0X		105	3
2001	NOV	29	1509	52.70	19	31.48	155	41.80	4.46	28	6	.15	.5	5.1	MLO	1.6X		80	7
2001	NOV	29	1607	21.58	19	12.56	155	32.51	6.13	29	4	.23	.9	1.3	LSW	1.2X		132	6
2001	NOV	29	1619	32.77	19	18.13	155	28.39	30.76	23	6	.12	.8	1.2	DLS	1.2X		77	6
2001	NOV	29	2229	56.77	19	24.66	155	38.56	3.19	17	4	.10	.6	.4	MLO	1.5X		179	1
2001	NOV	30	0747	43.98	19	12.80	155	26.88	38.51	44	9	.08	.6	.9	DLS	1.6X		121	6
2001	NOV	30	0933	46.56	19	24.42	155	17.30	11.79	13	2	.10	1.2	.9	INTL	2.3X		74	1
2001	NOV	30	1128	28.42	19	59.45	155	32.92	7.01	49	10	.14	.6	.7	KEAF	3.0X		134	24

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	NOV	30	1226	37.61	19	23.74	155	2.54	7.86	25	3	.13	.6	.6	SF5	1.4X		150	3
2001	NOV	30	1638	41.38	19	16.76	155	28.67	8.84	45	8	.15	.4	.7	LSW	1.9X		55	4
2001	NOV	30	1720	51.43	19	21.77	155	19.10	28.80	36	5	.12	.7	1.0	DEP	1.9X		40	4
2001	NOV	30	1736	6.49	19	16.60	155	28.76	10.43	25	3	.13	.5	1.1	LSW	1.4X		74	4
2001	NOV	30	1928	9.06	20	1.22	155	30.17	3.67	19	1	.11	1.1	2.0	KEA	1.8X		215	27
2001	NOV	30	2109	11.76	19	26.27	155	15.54	4.37	25	4	.12	.4	.9	SNCL	2.0X		131	4
2001	NOV	30	2119	3.36	19	43.60	155	46.54	18.85	17	3	.12	1.4	2.1	HUA	1.4X		236	8
2001	DEC	1	0127	8.02	19	12.42	155	26.55	38.87	24	4	.09	1.0	1.7	DLS	1.5X		135	6
2001	DEC	1	0444	13.94	18	54.04	155	12.63	11.69	20	4	.12	1.9	.7	LOI	1.6X		281	39
2001	DEC	1	1014	11.46	19	19.43	155	7.74	6.92	21	4	.08	.5	.9	SF4	1.0X		151	4
2001	DEC	1	1309	59.09	19	27.35	155	26.04	2.82	13	4	.13	.4	1.4	KAO	1.2X		64	7
2001	DEC	1	1524	59.38	19	30.54	155	0.45	13.22	32	8	.15	.5	.7	DEP	1.6X		114	10
2001	DEC	1	2341	28.48	19	21.98	155	4.47	6.96	27	4	.12	.5	1.0	SF5	1.4X		156	4
2001	DEC	2	0007	52.73	19	25.00	155	17.07	5.90	25	9	.12	.3	.4	INTL	2.0X		85	0
2001	DEC	2	0816	53.68	19	24.92	155	38.84	3.69	17	4	.14	.8	2.3	MLO	1.8X		188	6
2001	DEC	2	0828	44.45	19	14.26	155	20.95	29.75	22	6	.10	.9	1.2	DEP	1.5X		160	5
2001	DEC	2	1751	3.41	19	25.40	155	16.78	5.97	17	4	.12	.5	.6	INTL	2.3X		120	1
2001	DEC	2	2023	9.87	19	29.51	155	26.85	6.75	37	6	.10	.3	1.0	KAO	2.2X		64	5
2001	DEC	2	2143	23.90	19	27.83	155	24.03	9.70	26	7	.09	.4	1.0	KAO	1.4X		75	4
2001	DEC	3	0349	21.18	20	1.82	155	30.04	6.07	27	5	.14	.8	.8	KEA	1.7X		215	28
2001	DEC	3	0952	26.30	19	23.93	155	16.50	12.61	14	5	.06	.7	.5	INTL	2.6X		103	0
2001	DEC	3	1418	15.40	19	59.35	155	32.29	6.74	19	3	.15	.8	1.0	KEA	1.8X		176	23
2001	DEC	3	1649	32.46	19	16.89	155	28.07	11.03	30	3	.14	.5	1.0	LSW	1.6X		55	5
2001	DEC	3	1707	0.32	19	24.29	155	15.88	1.02	15	4	.09	.4	.4	SEC	1.9X		173	1
2001	DEC	4	0136	18.63	19	27.17	155	14.99	11.36	12	5	.11	1.3	.9	INTL	2.2X		229	5
2001	DEC	4	1232	10.76	19	15.67	155	15.16	7.08	27	3	.09	.6	.9	SF1	1.8X		203	4
2001	DEC	4	2214	2.78	19	19.43	155	10.86	6.18	25	2	.10	.5	1.2	SF3	1.3X		100	5
2001	DEC	5	0212	7.36	19	17.50	155	30.42	8.86	23	5	.14	.4	.8	LSW	1.2X		68	4
2001	DEC	5	0416	42.92	19	2.31	155	27.27	36.77	17	2	.10	1.5	2.1	DLS	1.2X		264	13
2001	DEC	5	0621	52.83	19	13.76	155	26.02	8.98	26	1	.10	.4	.6	LSW	1.4X		125	4
2001	DEC	5	1153	28.43	19	24.95	154	58.04	3.76	23	3	.14	1.0	.5	SLE	1.6X		188	1
2001	DEC	5	1314	9.84	19	59.91	155	32.35	6.13	20	5	.13	.7	.9	KEA	1.6X		180	24
2001	DEC	5	1723	52.71	19	57.64	155	26.70	36.95	14	4	.10	2.8	2.9	KEA	1.3X		331	40
2001	DEC	5	1841	44.45	19	23.12	155	14.64	2.86	39	8	.12	.2	.3	SEC	2.1X		78	3
2001	DEC	5	2123	35.06	19	20.90	155	19.05	1.41	19	7	.08	.3	.5	SWR	.9X		89	5
2001	DEC	6	0113	36.56	19	16.56	155	7.32	6.60	27	2	.13	.9	.6	SF4	1.1X		217	2
2001	DEC	6	1600	41.00	19	16.23	155	30.92	10.21	30	4	.17	.4	.8	LSW	1.3X		57	3
2001	DEC	6	1911	10.68	19	19.48	155	11.80	6.01	25	4	.09	.4	1.1	SF3	1.2X		93	5
2001	DEC	6	2045	32.73	19	26.08	155	15.54	1.77	18	4	.12	.3	.5	SNC	1.5X		129	3
2001	DEC	7	1156	15.21	19	28.16	155	26.98	7.15	38	9	.11	.3	1.0	KAO	1.5X		47	7
2001	DEC	7	1302	25.08	19	24.80	155	16.08	8.56	22	5	.14	.8	.5	INTL	2.2X		115	2
2001	DEC	7	1333	25.12	19	22.31	155	28.58	14.21	18	3	.09	.6	1.1	DML	1.1X		78	2
2001	DEC	7	1800	12.22	19	25.89	155	16.00	3.32	12	4	.09	.8	.8	SNC	1.4X		136	3
2001	DEC	8	0432	20.28	19	13.89	155	25.80	7.68	21	3	.12	.4	.8	LSW	1.3X		130	3
2001	DEC	8	0549	52.20	19	29.27	154	53.56	0.03	4110		.15	.4	.2	SLEF#	2.5X		106	4
2001	DEC	8	0650	8.90	19	28.41	154	53.62	2.61	19	2	.10	.4	.6	SLEF	2.1X		118	3
2001	DEC	8	1200	47.78	19	24.54	155	16.89	10.80	23	5	.10	.6	.7	INTL	2.3X		77	1
2001	DEC	8	1604	4.00	19	27.44	155	20.53	34.34	25	5	.11	2.0	1.3	DMLL	2.7X		125	0
2001	DEC	8	1605	5.83	19	27.77	155	15.20	7.31	22	1	.11	.5	1.1	INTL	2.2X		138	6
2001	DEC	8	1631	51.30	19	23.84	155	17.64	11.59	12	2	.12	1.5	1.1	INTL	1.9X		135	2
2001	DEC	8	1633	17.64	19	24.55	155	16.74	9.76	12	3	.07	1.1	.8	INTL	1.9X		120	1
2001	DEC	8	1635	44.66	19	22.52	155	19.21	8.03	13	4	.10	1.2	1.5	KAOL	2.0X		188	4
2001	DEC	8	1640	31.80	19	23.94	155	16.80	9.85	11	3	.07	1.1	1.1	INTL	2.3X		139	0
2001	DEC	8	1644	1.61	19	24.32	155	17.14	7.35	18	4	.09	.6	.6	INTL	2.2X		51	1
2001	DEC	8	1645	54.15	19	24.05	155	16.78	12.89	19	5	.16	.7	.9	INTL	2.1X		71	0
2001	DEC	8	1905	54.40	18	55.67	155	14.64	11.33	4110		.13	.9	.4	LOI	2.2X		244	34
2001	DEC	9	0011	22.89	19	29.08	155	42.90	0.81	24	6	.14	.4	.6	MLO	1.3X		109	6
2001	DEC	9	0116	24.27	19	19.77	155	7.75	8.24	20	3	.08	.5	.9	SF4	1.4X		128	4
2001	DEC	9	0140	46.27	21	20.99	157	14.46	0.91	33	8	.12	2.2	.2	DIS	3.2X		216	80
2001	DEC	9	0649	24.10	19	24.87	154	57.88	3.98	14	1	.09	1.5	.5	SLE	1.5X		190	2
2001	DEC	9	0819	58.35	19	17.55	155	12.97	6.48	34	8	.13	.4	.8	SF2	1.4X		130	1
2001	DEC	9	0931	25.42	19	23.52	155	15.32	2.73	15	5	.09	.3	.4	SEC	1.2X		139	2
2001	DEC	9	0936	1.09	19	25.27	155	16.38	6.80	12	5	.13	2.6	.9	INTL	2.2X		231	1
2001	DEC	9	0941	16.64	19	23.36	155	15.06	3.75	28	6	.11	.3	.4	SEC	2.1X		92	2
2001	DEC	9	0942	27.43	19	23.80	155	15.09	3.38	46	9	.11	.3	.3	SECF	2.8X		43	2
2001	DEC	9	0949	39.66	19	24.31	155	16.11	1.42	10	3	.06	.4	.4	SEC	1.8X		172	1
2001	DEC	9	0954	58.34	19	24.31	155	16.07	1.20	13	6	.07	.4	.4	SEC	1.8X		173	1
2001	DEC	9	1519	55.76	19	26.19	155	37.07	30.60	19	5	.12	1.0	1.5	DML	1.5X		87	2
2001	DEC	9	1705	13.15	19	22.28	155	10.79	4.72	36	6	.12	.4	.7	SER	2.0X		66	2
2001	DEC	9	2054	30.78	19	23.43	155	18.34	16.35	16	3	.08	.9	.8	DEP	1.3X		121	2
2001	DEC	9	2201	14.47	19	21.69	155	11.10	2.80	19	5	.12	.4	.5	SER	1.5X		74	2
2001	DEC	9	2211	35.04	20	0.52	155	32.99	8.22	14	2	.13	1.5	.8	KEA	1.6X		220	27
2001	DEC	9	2253	19.45	19	27.68	155	13.69	17.27	15	3	.13	1.4	1.1	DEP	1.5X		261	8
2001	DEC	9	2333	37.14	19	25.56	155	17.27	10.57	19	3	.12	1.1	1.3	INT	1.3X		203	1
2001	DEC	9	2344	6.38	19	24.27	155	19.25	0.15	14	3	.14	.4	.4	KAO	.9X		104	4
2001	DEC	10	0010	19.09	19	23.28	155	17.74	7.90	18	5	.13	.9	1.4	INT	1.1X		120	1
2001	DEC	10	0028	59.44	19	23.17	155	15.51	9.21	11		.10	1.4	1.0	INT	1.4X		123	2
2001	DEC	10	0320	56.11	19	24.18	155	17.06	8.45	13	2	.11	.9	1.2	INT	1.4X		108	1
2001	DEC	10	0358	43.15	19	9.46	155	26.23	32.06	23	2	.08	.9	2.0	DLS	1.3X		174	3
2001	DEC	10	0414	25.31	19	24.72	155	15.87	15.17	18	5	.08	.9	.4	DEP	1.5X		249	2
2001	DEC	10	0532	44.87	19	24.84	155	16.63	13.46	22	4	.11	.6	.5	DEP	1.7X		189	1
2001	DEC	10	0748	43.29	19	24.21	155	16.71	10.96	16	3	.10	1.2	1.4	INT	1.5X		192	2
2001	DEC	10	0836	45.20	19	48.44	156	3.41	30.82	14	3	.14	2.0	3.2	HUA	1.6X		259	26
2001	DEC	10	1103	51.06	19	23.04	155	14.88	3.21	15	4	.08	.3	.5	SEC	1.4X		70	2
2001	DEC	10	1631	56.58	19	45.48	155	30.77	10.79	17	2	.11	1.4	.8	KEA	1.5X		186	17
2001	DEC	10	1647	53.84	19	44.89	155	31.43	11.66	14	2	.11	1.3	.8	KEA	1.2X		226	8
2001	DEC	11	0657	40.75	20	0.43	155	31.44	2.43	12	3	.14	1.4	1.3	KEA	1.8X		227	26
2001	DEC	11	0709	2.72	19	20.98	155	52.21	9.11	16	2	.11	1.7	.9	KON	1.5X		286	21
2001	DEC	11	0844	48.57	19	21.75	155	18.95	29.33	22	7	.09	.8	1.0	DEP	1.1X		92	4
2001	DEC	11	1101	25.08	18	51.24	155	11.71	9.07	22	3	.12	1.4	.9	LOI	2.2X		260	44

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	DEC	11	1313	14.36	19	10.70	155	27.72	5.97	17	2	.11	.7	.9	LSW	1.4X		138	2
2001	DEC	11	1923	16.43	19	18.76	155	12.94	5.09	35	6	.11	.3	1.0	SF2	1.3X		91	3
2001	DEC	12	0055	13.33	19	20.32	155	6.78	6.92	35	6	.11	.5	.8	SF4	1.5X		144	6
2001	DEC	12	0152	3.19	19	13.02	155	34.87	6.02	19	5	.11	.5	2.2	LSW	1.3X		134	9
2001	DEC	12	0533	40.92	20	44.76	155	27.34	3.64	22	3	.09	2.4	2.4	DIS	2.6X		248	88
2001	DEC	12	1147	39.22	19	10.07	155	40.69	3.43	33	5	.19	.6	2.0	LSW	1.8X		86	9
2001	DEC	12	1159	55.84	19	22.04	155	4.72	7.96	27	2	.11	.6	.8	SF5	1.4X		153	4
2001	DEC	12	2105	59.92	19	18.91	155	9.58	2.42	16	3	.11	.4	.8	SSF	1.1X		108	4
2001	DEC	12	2216	46.61	19	44.48	156	6.56	45.83	17	4	.08	1.6	1.8	HUA	1.7X		221	44
2001	DEC	13	0612	25.61	19	27.32	155	14.06	31.07	48	10	.12	.6	.8	DEP	2.1X		71	7
2001	DEC	13	1036	7.84	19	19.05	155	11.88	6.17	26	6	.10	.4	1.0	SF3	1.5X		103	5
2001	DEC	13	1413	44.50	19	17.99	155	13.26	8.11	32	5	.12	.5	.5	SF2	1.7X		95	2
2001	DEC	14	0034	52.93	19	20.30	155	8.80	7.23	31	7	.12	.4	.7	SF4	1.5X		101	4
2001	DEC	14	0803	43.40	19	18.77	155	15.50	6.32	21	5	.08	.4	1.3	SF1	1.3X		110	5
2001	DEC	14	1545	31.05	19	17.05	155	24.15	34.54	43	11	.10	.6	.9	DEP	2.3X		116	6
2001	DEC	14	1637	8.82	19	39.13	156	2.64	45.78	31	10	.10	1.1	1.6	HUA	2.0X		284	33
2001	DEC	14	1728	48.59	19	24.94	155	19.23	7.57	14	4	.09	.9	1.4	KAO	.9X		111	3
2001	DEC	14	1751	6.95	19	23.12	155	10.34	43.67	40	9	.12	.7	.8	DEP	2.0X		70	2
2001	DEC	15	0012	19.72	19	27.89	155	51.62	8.00	22	4	.19	1.0	1.0	KON	1.3X		202	11
2001	DEC	15	0112	26.28	19	19.65	155	11.89	6.49	36	8	.11	.4	.6	SF3	1.5X		89	6
2001	DEC	15	0240	15.91	19	23.57	155	55.70	9.57	18	3	.19	1.7	1.0	KON	1.4X		266	21
2001	DEC	15	1055	46.36	19	17.19	155	24.31	38.15	19	3	.12	1.3	1.5	DEP	1.2X		156	5
2001	DEC	15	1443	11.88	19	18.80	155	11.66	6.58	38	6	.13	.4	.6	SF3	2.1X		113	5
2001	DEC	16	0252	14.54	19	24.07	155	29.32	10.53	22	4	.11	.5	1.0	KAO	1.2X		42	4
2001	DEC	16	0543	55.18	19	10.97	155	26.59	47.92	18	3	.08	1.4	2.2	DLST	2.1X		201	8
2001	DEC	16	1446	29.13	19	11.89	155	41.62	6.22	22	3	.19	.7	4.7	LSW	1.9X		131	9
2001	DEC	16	1629	28.84	19	29.17	155	1.38	46.66	35	7	.11	.8	1.0	DEP	1.8X		101	9
2001	DEC	16	1921	34.04	20	2.13	155	28.99	1.24	13	2	.09	3.1	1.6	KEA	1.5X		302	28
2001	DEC	16	1922	26.54	20	1.48	155	29.89	6.18	16	4	.10	.9	.7	KEA	1.7X		284	27
2001	DEC	16	1927	46.97	20	0.30	155	30.36	4.49	13	3	.11	1.1	1.7	KEA	1.3X		299	25
2001	DEC	17	0050	6.41	19	59.38	155	30.95	5.27	35	6	.10	.6	.8	KEA	2.3X		181	32
2001	DEC	17	0547	53.05	19	19.79	155	8.58	7.95	29	4	.11	.4	.7	SF4	1.8X		106	5
2001	DEC	17	1347	49.44	19	21.53	155	17.69	21.16	23	6	.10	.7	1.0	DEP	1.3X		87	3
2001	DEC	17	1516	46.57	18	52.25	156	25.26	41.03	38	5	.10	1.5	2.3	DIS	2.7X		313	76
2001	DEC	17	2200	32.71	19	21.96	155	4.98	5.74	18	1	.12	.6	1.4	SF5	1.2X		151	5
2001	DEC	18	0604	32.13	19	56.20	155	32.59	31.33	23	5	.11	1.5	1.6	KEA	1.4X		283	19
2001	DEC	18	0827	26.95	19	20.65	155	7.65	5.98	35	7	.13	.5	1.0	SF4	1.4X		123	5
2001	DEC	18	0851	57.12	19	26.30	155	29.39	9.42	40	8	.12	.3	.9	KAO	1.7X		42	8
2001	DEC	18	1109	57.96	19	19.42	155	8.85	5.09	23	5	.08	.4	1.3	SF4	1.0X		115	4
2001	DEC	18	1654	40.28	19	11.93	155	30.97	4.28	19	1	.13	.8	2.4	LSW	1.2X		189	6
2001	DEC	18	1940	31.20	19	20.25	155	7.29	5.73	38	7	.12	.4	.7	SF4	1.5X		134	5
2001	DEC	19	0332	37.45	19	25.47	155	14.67	1.47	14	6	.09	.3	.8	SNC	1.2X		150	4
2001	DEC	19	0632	27.38	19	12.39	156	16.78	9.31	18	2	.10	7.2	10.0	KON -	1.5X		304	54
2001	DEC	19	0849	1.18	19	22.95	155	14.87	3.30	26	5	.11	.3	.4	SEC	1.9X		66	2
2001	DEC	19	0849	10.31	19	23.29	155	14.72	3.40	11	3	.06	.5	.6	SEC	1.9X		106	3

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	DEC	19	0915	51.41	19	23.01	155	14.85	3.72	31	7	.10	.3	.4	SEC	2.1X		91	2
2001	DEC	19	0916	4.37	19	23.11	155	14.67	2.82	22	9	.11	.3	.3	SEC	2.1X		109	3
2001	DEC	19	1003	7.63	19	22.99	155	14.68	3.28	25	6	.09	.3	.3	SEC	1.9X		91	2
2001	DEC	19	1124	46.39	19	23.11	155	14.74	3.44	15	4	.06	.4	.4	SEC	1.6X		131	2
2001	DEC	19	1241	16.27	19	20.19	155	7.17	7.10	42	6	.10	.4	.6	SF4	2.7X		131	5
2001	DEC	19	1337	10.89	19	49.75	156	5.20	41.84	27	5	.10	1.4	2.2	HUA	1.8X		249	30
2001	DEC	19	1414	17.63	19	27.42	154	53.54	7.60	21	3	.10	1.0	.9	LER	1.3X		152	3
2001	DEC	19	1553	55.39	19	43.63	156	5.19	45.33	24	6	.09	1.1	1.9	HUA	1.9X		194	41
2001	DEC	19	1601	31.00	19	15.42	155	29.94	9.62	14	3	.09	.5	.8	LSW	1.1X		96	1
2001	DEC	19	1632	56.83	19	15.66	155	28.55	10.99	30	4	.12	.4	.9	LSW	1.5X		75	3
2001	DEC	19	1949	0.14	19	17.20	155	27.24	9.74	18	4	.09	.5	1.0	LSW	1.1X		52	6
2001	DEC	19	2326	17.12	19	19.83	155	7.06	7.83	36	5	.08	.4	.5	SF4	2.1X		136	5
2001	DEC	20	0233	28.11	19	53.73	155	10.67	7.20	15	5	.17	1.6	1.0	KEA	1.4X		313	32
2001	DEC	20	0339	1.94	19	26.36	155	21.47	13.04	18	5	.08	.5	1.0	DML	1.0X		74	3
2001	DEC	20	0445	23.33	19	24.79	155	28.95	9.31	19	5	.14	.5	1.3	KAO	1.1X		66	5
2001	DEC	20	1529	24.85	19	22.43	155	30.08	10.12	30	2	.09	.4	.9	KAO	1.9X		35	4
2001	DEC	20	2020	1.81	19	19.51	155	8.91	7.11	16	2	.07	.5	1.1	SF4	1.3X		114	4
2001	DEC	20	2121	39.98	19	19.44	155	8.78	5.88	20	2	.10	.6	1.5	SF4	1.3X		100	4
2001	DEC	20	2200	37.86	19	20.28	155	12.07	7.24	17	1	.09	.5	1.1	SF3	1.6X		77	5
2001	DEC	20	2322	45.02	19	21.21	155	16.52	1.66	39	6	.10	.2	.4	KOA	2.4X		67	2
2001	DEC	21	0024	45.24	19	23.14	155	16.91	2.57	31	8	.12	.3	.2	SSC	1.8X		64	0
2001	DEC	21	0322	31.77	19	21.88	155	29.94	9.47	39	7	.12	.3	.8	KAO	1.8X		37	4
2001	DEC	21	0517	52.81	18	53.86	155	14.69	13.10	35	7	.13	1.0	.9	LOI	2.1X		254	37
2001	DEC	21	0542	51.03	19	18.35	155	13.81	7.54	19	1	.11	.6	1.3	SF2	1.5X		100	3
2001	DEC	21	0722	7.40	19	26.87	155	27.30	14.01	45	9	.10	.4	.4	DML	1.9X		43	8
2001	DEC	21	0731	51.02	19	21.15	155	16.87	1.25	13	4	.06	.3	.5	KOA	1.3X		89	3
2001	DEC	21	1819	28.81	19	44.42	155	33.75	15.75	15	3	.05	1.0	.9	KEA	1.5X		169	17
2001	DEC	21	1838	41.06	19	27.03	155	27.51	9.74	25	4	.09	.4	1.1	KAO	1.8X		56	8
2001	DEC	21	1857	48.78	19	14.11	155	31.89	0.57	42	10	.14	.4	.3	LSW	2.1X		119	14
2001	DEC	21	1948	13.87	19	25.82	155	12.64	16.25	13	2	.11	1.9	1.0	DEP	1.6X		282	8
2001	DEC	21	2052	25.54	19	19.65	155	7.38	5.87	15		.09	1.1	2.0	SF4	1.2X		161	4
2001	DEC	22	0202	54.67	19	21.10	155	4.04	7.19	30	6	.12	.5	.5	SF5	1.6X		173	6
2001	DEC	22	0210	18.64	19	21.26	155	30.39	10.39	17	1	.07	.5	1.0	KAO	.9X		54	5
2001	DEC	22	0639	25.18	19	30.51	155	52.92	7.06	16	2	.16	1.2	2.7	KON	1.1X		210	12
2001	DEC	22	1327	33.45	19	10.36	155	32.08	0.08	20	3	.14	.4	.4	LSW	1.6X		112	8
2001	DEC	22	1600	9.81	19	22.19	155	18.34	11.38	35	7	.12	.4	.7	INT	1.5X		34	3
2001	DEC	22	1655	50.89	19	22.24	155	14.36	3.30	16	5	.12	.4	.5	SEC	1.5X		115	2
2001	DEC	22	1741	38.50	19	19.77	155	8.16	6.80	33	5	.10	.5	.7	SF4	2.2X		116	4
2001	DEC	22	1818	26.62	19	26.44	154	55.87	6.30	19	2	.09	1.0	.5	LER	1.7X		164	2
2001	DEC	22	1910	27.61	19	25.09	155	31.23	11.25	20	2	.08	.5	1.6	KAO	1.1X		74	8
2001	DEC	22	2127	41.73	19	17.80	155	31.05	8.25	20	1	.14	.5	1.3	LSW	1.1X		78	5
2001	DEC	22	2137	47.60	19	11.09	155	43.10	12.70	16	1	.08	.7	1.0	KON	1.8X		140	6
2001	DEC	22	2218	8.71	19	11.44	155	30.26	8.72	17	3	.10	.6	1.3	LSW	1.6X		188	6
2001	DEC	22	2232	38.23	19	22.58	155	2.40	6.91	17		.10	.7	1.0	SF5	1.6X		172	4
2001	DEC	22	2302	14.90	19	27.25	155	29.63	11.58	39	7	.13	.4	.6	KAO	1.9X		47	9

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF N		AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	DEC	23	0043	50.24	19	24.48	155	29.93	10.44	40	7	.09	.3	.6	KAO	1.8X		34	5
2001	DEC	23	0303	10.23	19	21.12	155	17.03	0.83	16	2	.09	.3	.6	SWR	1.4X		72	3
2001	DEC	23	0406	17.28	19	15.30	155	26.23	9.78	20	2	.07	.5	.6	LSW	1.1X		82	4
2001	DEC	23	0519	8.93	19	32.58	155	53.78	10.24	17	3	.19	1.8	.7	KON	1.1X		218	14
2001	DEC	23	0551	40.21	19	15.44	155	27.19	9.87	25	3	.12	.4	.8	LSW	1.6X		77	5
2001	DEC	23	0639	6.85	19	22.17	155	11.18	3.37	17	2	.08	.6	.5	SER	1.7X		127	2
2001	DEC	23	0914	17.21	20	4.33	156	11.74	4.88	22	3	.17	1.1	2.1	KOH	2.0X		190	44
2001	DEC	23	1223	10.61	19	24.48	155	16.61	1.31	16	6	.12	.5	.2	SSC	1.5X		160	1
2001	DEC	23	1611	49.23	19	33.21	155	38.38	13.38	18	5	.13	.9	1.5	DML	1.2X		180	6
2001	DEC	23	1638	25.08	19	23.17	155	16.97	3.01	37	7	.11	.3	.3	SSC	2.1X		37	0
2001	DEC	23	1919	3.31	19	58.60	155	27.74	13.97	17	2	.13	2.9	5.5	KEA	1.4X		252	41
2001	DEC	23	2011	37.27	19	18.81	155	13.15	9.52	36	4	.12	.5	.6	SF2	1.8X		131	7
2001	DEC	23	2233	21.29	19	8.85	155	39.51	7.91	4411		.16	.4	.7	LSWF	3.0X		97	11
2001	DEC	24	0106	10.74	19	14.58	155	34.66	8.38	28	3	.13	.4	1.3	LSW	1.8X		80	8
2001	DEC	24	1126	45.98	19	21.18	155	16.34	1.88	15	5	.07	.3	.4	KOA	1.3X		84	2
2001	DEC	24	1332	54.38	19	31.87	155	3.10	43.34	38	7	.10	.8	1.2	DEP	2.0X		113	14
2001	DEC	24	1341	12.81	19	24.51	155	15.48	14.33	13	1	.12	1.9	.9	DEP	1.1X		245	2
2001	DEC	24	1406	0.29	19	18.70	155	1.80	32.49	23	2	.11	1.9	2.2	DEP	1.3X		218	11
2001	DEC	24	1946	41.41	19	9.17	155	39.02	2.69	14	1	.13	.6	2.7	LSW	1.0X		97	12
2001	DEC	24	2316	12.69	20	1.27	155	29.44	7.17	17	2	.10	1.2	.9	KEA	1.8X		234	27
2001	DEC	25	0055	7.30	19	20.18	155	50.96	12.07	28	4	.12	1.1	.6	KON	1.9X		205	19
2001	DEC	25	0104	45.75	19	22.59	155	14.16	3.59	12	4	.04	.6	.5	SEC	1.4X		137	2
2001	DEC	25	0437	55.49	19	19.63	155	6.66	7.53	21	1	.08	.5	.8	SF4	1.3X		155	5
2001	DEC	25	0820	25.70	19	21.05	155	16.02	1.07	22	5	.09	.2	.3	KOA	1.7X		71	3
2001	DEC	25	0830	17.81	19	24.02	155	26.49	10.05	41	6	.09	.3	.6	KAO	1.9X		33	3
2001	DEC	25	0945	42.90	20	3.26	156	37.88	7.53	19	7	.17	1.5	2.5	DIS	3.2X		239	79
2001	DEC	25	1007	55.90	19	13.88	155	29.28	8.44	16	1	.11	.5	1.0	LSW	1.1X		92	3
2001	DEC	25	1552	8.02	19	22.49	155	14.18	3.07	15	4	.06	.3	.3	SEC	1.4X		130	2
2001	DEC	25	1655	12.28	19	34.81	155	0.55	42.97	4413		.06	.9	.6	HIL	2.0X		202	16
2001	DEC	25	1932	9.40	20	47.41	155	55.72	5.96	15	3	.14	9.41	2.8	DIS -	1.6U		343	122
2001	DEC	25	2154	59.01	19	23.72	155	54.22	12.99	18	2	.10	1.8	.6	KON	1.4X		299	19
2001	DEC	25	2216	38.56	19	58.60	155	35.05	44.75	40	7	.10	.9	1.2	KOH	1.9X		167	25
2001	DEC	26	0118	26.88	19	25.45	155	14.86	2.36	17	5	.09	.3	.7	SNC	1.4X		168	4
2001	DEC	26	0420	49.18	19	18.47	155	30.05	5.78	41	7	.14	.3	1.2	LSW	1.9X		49	6
2001	DEC	26	0443	58.38	19	34.67	155	45.58	0.64	16	3	.10	.4	.6	KON	1.3X		141	8
2001	DEC	26	0453	40.38	20	25.33	155	59.42	24.73	40	5	.10	1.4	2.5	DIS	2.3X		174	39
2001	DEC	26	0536	14.45	19	18.28	155	30.36	10.07	26	4	.11	.4	.7	LSW	1.3X		64	6
2001	DEC	26	0733	4.96	19	25.14	155	15.44	3.10	18	5	.10	.5	.4	SNC	1.5X		170	2
2001	DEC	26	0922	9.45	20	51.91	156	20.73	34.12	27	1	.15	3.1	.6	DIS	2.9X		205	15
2001	DEC	26	1142	25.89	19	20.08	155	11.68	8.78	43	7	.12	.3	.4	SF3	2.2X		82	5
2001	DEC	26	1526	18.26	19	12.62	155	18.90	45.49	40	6	.11	.8	1.3	DEP	1.9X		171	10
2001	DEC	26	2033	12.70	19	20.42	155	11.26	7.53	34	5	.13	.5	.7	SF3	1.7X		78	4
2001	DEC	26	2245	50.70	19	25.26	155	14.08	0.90	14	5	.13	.5	.7	SNC	1.4X		194	5
2001	DEC	27	0037	20.50	19	54.91	155	26.58	26.23	4210		.10	.7	1.1	KEA	1.7X		174	15
2001	DEC	27	0232	28.25	19	19.53	155	20.08	35.58	17	2	.12	1.0	1.7	DEP	1.3X		90	4
2001	DEC	27	0627	32.67	19	50.30	155	39.67	9.83	13	4	.09	1.1	.9	KEA	1.4X		273	25
2001	DEC	27	0710	29.22	19	48.80	155	50.45	5.82	15	2	.08	.7	1.2	HUA	1.4U		191	14
2001	DEC	27	0745	34.02	19	26.25	155	30.65	12.08	24	4	.09	.4	1.2	KAO	1.4X		62	5
2001	DEC	27	1040	16.83	19	46.12	155	39.77	11.08	21	3	.15	1.3	.6	KEA	1.4X		227	26
2001	DEC	27	1239	12.18	19	20.46	155	4.82	4.60	35	6	.13	.6	1.4	SSF	1.7X		163	7
2001	DEC	27	1650	57.07	19	21.03	155	6.31	8.89	30	5	.08	.4	.5	SF4	1.7X		138	5
2001	DEC	28	0331	10.74	19	20.06	155	13.33	4.82	21	2	.13	.4	1.5	SSF	1.0X		66	5
2001	DEC	28	0400	8.66	19	20.45	155	7.44	7.20	26	4	.08	.4	.6	SF4	1.2X		129	5
2001	DEC	28	1211	53.81	19	19.15	154	59.95	37.06	14	3	.08	1.5	.9	LER	.9X		246	11
2001	DEC	28	1813	31.10	19	21.28	155	30.49	9.39	32	4	.12	.4	.9	KAO	1.5X		55	6
2001	DEC	28	2043	0.31	19	24.18	155	27.21	4.18	21	2	.11	.4	1.1	KAO	1.3X		61	3
2001	DEC	28	2044	49.62	19	19.83	155	9.94	6.44	37	4	.13	.5	.9	SF3	1.8X		89	4
2001	DEC	28	2114	6.98	19	21.95	155	4.67	6.96	17	1	.12	.7	1.3	SF5	1.3X		155	5
2001	DEC	28	2235	1.97	20	3.90	155	33.36	10.86	14	3	.15	8.91	1.6	KEA -	1.6X		323	51
2001	DEC	29	0320	5.44	19	19.07	155	10.07	6.15	18	2	.07	.5	1.4	SF3	1.4X		108	5
2001	DEC	29	1048	2.22	19	29.41	155	35.42	1.80	9	1	.12	.8	.6	MLO	1.7X		110	1
2001	DEC	29	1234	5.70	20	4.96	155	38.95	33.65	15	4	.10	1.4	2.2	KOH	1.5X		292	39
2001	DEC	29	1313	25.17	19	24.42	155	29.03	10.69	18	3	.09	.5	.9	KAO	1.5X		67	4
2001	DEC	29	2246	13.11	19	11.44	156	26.43	36.34	34	6	.11	1.4	2.3	DIS	2.4X		303	71
2001	DEC	30	0252	48.57	19	27.60	155	29.01	10.48	17	3	.09	.5	1.4	KAO	1.6X		70	8
2001	DEC	30	0317	4.54	19	26.49	155	28.79	10.68	16	3	.10	.6	1.5	KAO	1.1X		85	8
2001	DEC	30	1027	6.64	19	12.40	155	28.61	7.36	31	9	.16	.5	1.3	LSW	1.5X		144	6
2001	DEC	30	2027	29.30	19	32.34	155	57.50	13.11	13	2	.13	2.6	.9	KON	1.1X		318	21
2001	DEC	30	2212	22.05	19	28.46	155	57.44	10.22	12	2	.07	1.7	.7	KON	1.0X		320	21
2001	DEC	31	0038	54.68	19	19.81	155	12.79	4.81	28	3	.13	.4	1.7	SSF	1.1X		76	5
2001	DEC	31	0104	3.28	19	54.56	155	10.04	40.21	39	9	.10	.9	1.3	KEA	2.1X		267	27
2001	DEC	31	0719	46.17	19	22.60	155	14.94	3.01	12	3	.10	.5	.4	SEC	1.3X		126	2
2001	DEC	31	1425	29.22	19	18.32	155	17.92	44.64	20	6	.09	1.7	1.0	DEP	1.2X		129	1
2001	DEC	31	1509	57.13	19	32.08	155	42.73	9.94	20	4	.14	1.3	1.2	MLO	1.3X		265	13
2001	DEC	31	1807	7.03	19	10.27	155	31.11	6.74	25	7	.12	.6	1.6	LSW	1.4X		219	6
2001	DEC	31	2203	24.92	19	20.81	155	6.58	6.78	37	6	.12	.5	.6	SF4	2.3X		136	5

Table 5.

ORIGIN TIME (HST)					LAT N		LON W		DEPTH	N	N	RMS	ERH	ERZ	LOC	PREF	N	AZ	MIN
YEAR	MON	DA	HRMN	SEC	DEG	MIN	DEG	MIN	KM	RD	S	SEC	KM	KM	REMKS	MAG	RD	GAP	DS
2001	JAN	2	0654	48.77	19	45.40	155	33.79	14.71	42	7	.12	.4	.4	KEAF	3.2X		112	11
2001	JAN	9	2236	26.91	19	46.87	155	22.74	27.22	44	8	.11	.6	1.2	KEAF	3.3X		162	8
2001	FEB	15	2153	55.69	19	30.13	155	24.54	23.71	5111		.11	.4	.7	DML	3.2X		51	2
2001	FEB	16	1743	55.49	19	29.67	155	24.82	24.19	50	9	.11	.4	.7	DMLF	3.3X		51	3
2001	FEB	19	0200	30.59	19	16.04	155	7.01	43.76	43	8	.12	.9	1.0	DEP	3.2X		190	3
2001	FEB	20	1317	53.36	19	23.57	155	14.99	3.42	4610		.11	.3	.3	SECF	3.8U		82	2
2001	APR	15	1309	39.21	19	57.20	157	38.36	0.01	4411		.11	5.7	1.4	DIS #	3.2X		299	157
2001	APR	16	0418	1.57	19	47.31	155	32.43	23.84	49	8	.11	.4	1.2	KEAF	3.3X		94	9
2001	APR	25	1737	39.35	19	25.44	155	18.28	6.34	45	5	.11	.3	.5	INTF	4.4U		37	1
2001	APR	25	1819	24.80	19	25.48	155	18.30	6.22	46	7	.11	.3	.4	INTF	4.0U		37	1
2001	MAY	9	0433	56.80	19	56.43	155	55.27	15.09	50	7	.11	.6	1.1	KOHF	3.0X		152	26
2001	MAY	31	0802	0.36	19	21.28	155	15.53	26.64	5110		.12	.5	.6	DEPF	3.1X		67	2
2001	MAY	31	2126	37.82	19	5.07	155	22.13	34.36	4710		.10	.8	1.1	LOIF	3.3X		199	17
2001	JUN	1	2016	42.29	19	15.64	155	27.14	10.76	44	7	.13	.4	.4	LSWF	3.8U		138	5
2001	JUN	17	2059	38.09	19	48.30	156	9.91	35.97	50	8	.11	.8	1.2	HUA	3.2X		196	22
2001	JUL	21	0801	7.85	18	53.65	155	15.84	12.54	42	6	.11	1.0	1.3	LOI	3.4X		265	41
2001	AUG	10	2214	17.58	19	12.42	155	34.98	10.96	4610		.12	.4	.6	LSWF	4.5U		121	10
2001	SEP	4	0307	47.58	19	22.85	155	19.38	30.43	5415		.12	.5	.6	DMLF	3.2X		74	4
2001	SEP	7	1507	37.15	19	46.11	155	43.02	18.13	45	8	.13	.6	2.5	KEAF	3.3X		116	16
2001	SEP	10	1409	21.54	18	52.60	155	15.66	12.97	40	3	.12	1.3	1.5	LOIF	4.7U		253	38
2001	SEP	10	1433	6.31	18	53.28	155	15.01	12.55	45	9	.11	.9	1.0	LOI	3.0X		251	37
2001	SEP	10	1554	44.68	18	51.06	155	14.64	12.05	44	9	.11	1.2	1.4	LOI	3.2X		259	41
2001	SEP	10	1832	15.12	18	48.88	155	14.18	10.53	4511		.13	1.1	1.2	LOI	3.3X		276	45
2001	SEP	10	1843	20.24	18	53.38	155	15.01	12.56	45	7	.11	.9	.9	LOI	3.2X		251	37
2001	SEP	11	0345	40.30	18	51.74	155	9.45	8.59	4412		.13	.9	.6	LOI	3.3X		259	46
2001	SEP	13	0311	45.35	18	50.61	155	15.15	11.91	35	4	.12	1.3	1.3	LOIF	4.9U		273	41
2001	SEP	13	0839	54.17	18	52.92	155	12.12	9.86	41	6	.16	1.5	1.1	LOI	4.4U		254	41
2001	OCT	23	2338	22.98	19	23.69	155	29.45	10.32	46	8	.10	.3	.4	KAOF	3.0X		33	4
2001	NOV	30	1128	28.42	19	59.45	155	32.92	7.01	4910		.14	.6	.7	KEAF	3.0X		134	24
2001	DEC	9	0140	46.27	21	20.99	157	14.46	0.91	33	8	.12	2.2	.2	DIS	3.2X		216	80
2001	DEC	23	2233	21.29	19	8.85	155	39.51	7.91	4411		.16	.4	.7	LSWF	3.0X		97	11
2001	DEC	25	0945	42.90	20	3.26	156	37.88	7.53	19	7	.17	1.5	2.5	DIS	3.2X		239	79